JURUPA UNIFIED SCHOOL DISTRICT

Request for Formal Bid for General Contractor Project

25-26-13PD
Children and Family Services West

OWNER
JURUPA UNIFIED SCHOOL DISTRICT
4850 PEDLEY ROAD
JURUPA VALLEY, CA 92509

Robin Griffin, Director, Planning and Development
Jeffrey Lewis, Director, Purchasing Department - 951-360-4102

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PROJECT INFORMATION PAGE

Project: Bid No. 25-26-13PD – Children and Family Services West

Scope of Work: The contractor will be responsible for the install one new 48X40 portable office building furnished by others; install one existing on-site 36X40 portable building; furnish and install one new shade structure, install new parking lot, EV charging infrastructure, and miscellaneous site improvements.

Contract Time: 95 calendar days **Contractor's License:** B License

Engineer's Estimate: $1,803,407 **Liquidated Damages:** $2,500/day

Project Allowance: $50,000 (see Supplementary General Conditions for more info)

Job Visit Attendance is MANDATORY

Date: Friday, February 20, 2026
Time: 2:00 p.m.
Location: Sky Country Elementary
5520 Lucretia Ave.
Mira Loma, CA 91752

Point of Contact: Elizabeth Massie, elizabeth_massie@jusd.k12.ca.us, 951-416-1590

Bid Documents and Addenda: http://jurupausd.org/our-district/BizServ/css/Pages/Bids.aspx

Requests for Information: RFIs must be submitted via e-mail to the above Point of Contact. Requests for information must be submitted prior to Wednesday, February 25, 2026, at 2:00 p.m.

Submit Bids in a sealed envelope:

Date: Monday, March 9, 2026
Time: 2:00 p.m. or before
Location: Jurupa Unified School District, Education Center
Purchasing Department (1st Floor)
4850 Pedley Road
Jurupa Valley, CA 92509

Tentative Board Approval Date: April 7, 2026 (subject to change)

Prequalification: Prequalification is REQUIRED. Contractors must submit their prequalification application via QualityBidders.com on or before February 23, 2026.

Prevailing Wage Project: The selected contractor will be **required** to pay the current Prevailing Wage rates per classification and location to each and every employee on the project in accordance with Labor Code 1771. The current wage schedule can be found at www.dir.ca.gov. The contractor and any subcontractors must be registered on the DIR website at least 72 hours prior to the opening of bids.

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NOTICE INVITING BIDS

The Jurupa Unified School District ("District") will receive sealed bids for **25-26-13PD – Children and Family Services West** ("Project") at the JUSD Purchasing Department, 4850 Pedley Road, Jurupa Valley, CA 92509 no later than **2:00 p.m. on Monday, March 9, 2026**, per the Purchasing Bid Clock at which time or thereafter said sealed bids will be opened and read aloud. Bids received after this time will be returned unopened. Bids shall be valid for 90 days after the bid opening date.

SCOPE: Contractor is responsible for completion of all work associated with the Children and Family Services West project. This project includes all necessary labor, tools, materials, and equipment to accomplish the work shown in the bid documents. The contractor will be responsible for the install one new 48X40 portable office building furnished by others; install one existing on-site 36X40 portable building; furnish and install one new shade structure, install new parking lot, EV charging infrastructure, and miscellaneous site improvements.

CONTRACTOR'S LICENSE: The class of California contractor's license required to bid on and perform the contract for this Project is: B. License must be valid and active at the time of award of bid.

PREQUALIFICATION: As a condition of submitting a bid for this Project, and in accordance with California Public Contract Code section 20111.5 or 20111.6, prequalification of the CONTRACTOR is required. The DISTRICT has elected to prequalify Bidders on an annual basis. Bids will not be accepted if a CONTRACTOR has not been prequalified where prequalification is required. A list of prequalified CONTRACTORS will be published on the JUSD Purchasing website at least five (5) business days prior to the bid opening date. If this Project includes work that will be performed by mechanical, electrical or plumbing ("MEP") subcontractors (CONTRACTORS that hold C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43 or C-46 licenses), such MEP CONTRACTORS must also be prequalified. It is the responsibility of the Bidder to ensure that all MEP subcontractors holding any of the licenses listed above are properly prequalified before submitting a bid.

MANDATORY JOB WALK: The District will conduct a mandatory pre-bid meeting / job walk on Friday, February 20, 2026, at 2:00 p.m. to acquaint prospective bidders with the bid documents and the work site. The job walk will take place at Sky Country Elementary, 5520 Lucretia Ave. Mira Loma, CA 91752.

REQUESTS FOR INFORMATION: May be submitted to Elizabeth Massie, Senior Buyer, via e-mail at elizabeth_massie@jusd.k12.ca.us, no later than Wednesday, February 25, 2026, at 2:00 p.m.

BID DOCUMENTS: Bidders may obtain a set of Contract Documents via the Jurupa USD website: http://jurupausd.org/our-district/BizServ/css/Pages/Bids.aspx. All notices, clarifications, and addenda to this bid will be distributed via the aforementioned website. The District shall not be responsible for sending individual notification of changes or updates to any respondents. It is the sole responsibility of the bidder to remain apprised of changes to this bid.

BID BOND: Each bid must be submitted with security in an amount not less than ten percent (10%) of the maximum bid amount as a guarantee that the bidder will enter into the proposed contract, including all required Contract Documents. Such security must be in one of the following forms: (1) a cashier's check or certified check made payable to the District; or (2) a bond made payable to the District in the form outlined in the Contract Documents. Any bond must have been issued by a California-admitted surety as defined in Code of Civil Procedure Section 995.120.

BID FORMS: Bids must be submitted on District bid forms only. If any other forms are submitted by the Contractor such as but not limited to, additional or modified terms and conditions, the District may deem the Contractor non-responsive.

BID PROCESS: The District reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding. Except as provided in Public Contract Code Section 5100 *et sq.*, no bidder may withdraw a bid for a period of ninety (90) calendar days after the opening of the bids.

PAYMENT AND PERFORMANCE BONDS: The successful bidder will be required to provide both a performance bond and a separate payment bond, each in an amount equal to 100% of the total contract amount. The forms of the bond are outlined in the Contract Documents and all bonds must be issued by a California-admitted surety as defined in California Code of Civil Procedure Section 995.120.

PREVAILING WAGES: The successful bidder and each of its subcontractors of any tier will be required to pay not less than the general prevailing rates of per-diem wages in the locality in which the work is to be performed for each craft or type of worker needed to execute the contract ("Prevailing Wages"). A copy of the per-diem rates of Prevailing Wages is available on the Department of Industrial Relations ("DIR") website and a copy shall be posted at the Project site by the bidder. Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work, must be registered with the DIR. No bid will be accepted nor any contract entered without proof of the contractor's and subcontractor's current registration with the DIR to perform public work. If awarded a contract, the bidder and its subcontractors, of any tier, shall maintain active registrations with the DIR for the duration of the Project. This Project is subject to compliance monitoring and enforcement by the DIR. In bidding on this Project, it shall be the bidder's sole responsibility to evaluate and include the cost of complying with all labor compliance requirements under this contract and applicable law in its bid.

DVBE: Where applicable, bidders must meet the requirements outlined in Public Contract Code Section 10115 et seq., Military and Veterans Code Section 999 et seq., and California Code of Regulations, Title 2, Section 1896.60 et seq. regarding Disabled Veteran Business Enterprise ("DVBE") Programs. Bidders may contact the District for details regarding the District's DVBE participation goals and requirements.

By: Jeffrey Lewis **Advertised:** February 16, 2026 - Press-Enterprise

INSTRUCTIONS TO BIDDERS

1. Preparation of Bid Form. Proposals under these specifications shall be submitted on the blank forms furnished herewith at the time and place stated in the Notice Inviting Bids. All blanks in the bid form must be appropriately filled in, and all proposed prices must be stated clearly and legibly in both words and numerals. All bids must be signed by the bidder in permanent blue ink and submitted in sealed envelopes, bearing on the outside, the bidder's name, address, telephone number, and California Contractor's License number, and the name of the Project for which the bid is submitted. The District reserves the right to reject any bid if all of the above information is not furnished. It is each bidder's sole responsibility to ensure its bid is timely delivered and received at the location designated as specified above. Any bid received at the designated location after the scheduled closing time for receipt of bids shall be returned to the bidder unopened.

2. Bid Security. Each bid must be accompanied by one of the following forms of bidder's security: (1) cash; (2) a cashier's check made payable to the District; (3) a certified check made payable to the District; or (4) a bidder's bond executed by a California admitted surety as defined in Code of Civil Procedure section 995.120, made payable to the District, in the form set forth in the Contract Documents. Such bidder's security must be in an amount not less than ten percent (10%) of the maximum amount of such bidder's bid as a guarantee that the bidder will enter into the Contract, if the same is awarded to such bidder, and will provide the required Performance and Payment Bonds, insurance certificates and any other required documents. In the event that a bidder is awarded the Contract and such bidder fails to enter into said Contract or provide the surety bond or bonds within five (5) calendar days after award of the Contract to bidder, said security will be forfeited.

3. Signature. The bid form, all bonds, all designations of subcontractors, the Contractor's Certificate, the Agreement, and all Guarantees must be signed in permanent blue ink in the name of the bidder and must bear the signature in longhand of the person or persons duly authorized to sign the bid.

If bidder is a corporation, the legal name of the corporation shall first be set forth, together with two signatures: one from the President and one from the Secretary or Assistant Secretary. Alternatively, the signature of other authorized officers or agents may be affixed, if a certified copy of the resolution of the corporate board of directors authorizing them to do so is provided to the District. Such documents shall include the title of such signatories below the signature and shall bear the corporate seal.

If bidder is a partnership, the true name of the firm shall first be set forth, together with the names of all persons comprising the partnership or co-partnership. The bid must be signed by all partners comprising the partnership unless proof in the form of a certified copy of a statement of partnership acknowledging the signer to be a general partner is presented to the District, in which case the general partner may sign.

Bids submitted as joint ventures must so state and be signed by each joint venturer.

Bids submitted by individuals must be signed by the bidder unless an up to date power- of-attorney is on file in the District office, in which case, said person may sign for the individual.

The above rules also apply in the case of the use of a fictitious firm name. In addition, however, where a fictitious name is used, it must be so indicated in the signature.

4. Modifications. Changes in or additions to the bid form, recapitulations of the work bid upon, alternative proposals, or any other modification of the bid form which is not specifically called for in the

Contract Documents may result in the District's rejection of the bid as not being responsive to the Notice Inviting Bids. **No oral or telephonic modification of any bid submitted will be considered**.

5. Erasures, Inconsistent or Illegible Bids. The bid submitted must not contain any erasures, interlineations, or other corrections unless each such correction creates no inconsistency and is suitably authenticated by affixing in the margin immediately opposite the correction the signature or signatures of the person or persons signing the bid. In the event of inconsistency between words and figures in the bid price, words shall control figures. In the event that the District determines that any bid is unintelligible, inconsistent, or ambiguous, the District may reject such bid as not being responsive to the Notice Inviting Bids.

6. Examination of Site and Contract Documents. Each bidder shall visit the site of the proposed work and become fully acquainted with the conditions relating to the construction and labor so that the facilities, difficulties, and restrictions attending the execution of the work under the Contract are fully understood. Bidders shall thoroughly examine and be familiar with the drawings, specifications, Addenda, Contract Documents and all others documents and requirements that are attached to and/or contained in the Project Manual or other documents issued to bidders. The failure or omission of any bidder to receive or examine any Contract Documents, form, instrument, addendum, or other document or to visit the site and become acquainted with conditions there existing shall not relieve any bidder from obligations with respect to the bid or to the contract. The submission of a bid shall be taken as prima facie evidence of compliance with this Section. Bidders shall not, at any time after submission of the bid, dispute, complain, or assert that there were any misunderstandings with regard to the nature or amount of work to be done.

7. Withdrawal of Bids. Any bid may be withdrawn, either personally or by written request, at any time prior to the scheduled closing time for receipt of bids. The bid security for bids withdrawn prior to the scheduled closing time for receipt of bids, in accordance with this paragraph, shall be returned upon demand therefor.

No bidder may withdraw any bid for a period of ninety (90) calendar days after the date set for the opening of bids.

8. Agreements, Insurance and Bonds. The Agreement form which the successful bidder, as Contractor, will be required to execute, and the forms and amounts of surety bonds and insurance endorsements which Contractor will be required to be furnished at the time of execution of the Agreement, are included in the bid documents and should be carefully examined by the bidder. The number of executed copies of the Agreement, the Performance Bond, and the Payment Bond required is three (3). Payment and Performance bonds must be executed by an admitted surety insurer as defined in Code of Civil Procedure 995.120.

9. Interpretation of Plans and Documents/Pre-Bid Clarification. If any prospective bidder is in doubt as to the true meaning of any part of the Contract Documents, or finds discrepancies in, or omissions, a written request for an interpretation or correction thereof may be submitted to the District. The bidder submitting the request shall be responsible for its prompt delivery. **Any interpretation or correction of the Contract Documents will only be made by Addendum duly issued, and a copy of such Addendum will be made available for each contractor receiving a set of the Contract Documents.** No person is authorized to make any oral interpretation of any provision in the Contract Documents, nor shall any oral interpretation be binding on the District. If discrepancies on drawings, specifications or elsewhere in the Contract Documents are not covered by addenda, bidder shall include in their bid methods of construction and materials for the higher quality and complete assembly. Each request for clarification shall be submitted in writing, via email, to the contact listed on the Project Information Page at the beginning of the bid packet.

Each transmitted request shall contain the name of the person and/or firm filing the request, address, telephone, and fax number, Specifications and/or Drawing number. Bidder is responsible for the legibility of hand written requests. Pre-bid clarification request shall be filed by the date and time listed on the Project Information Page. Requests received after the date and time listed on the Project Information Page will not be responded to. A written response to timely pre-bid clarifications requests which materially affects the bidders price will be made by Addendum issued by the Jurupa Unified District, or their designee, not less than seventy-two (72) hours prior to bid opening.

10. Bidders Interested in More Than One Bid. No person, firm, or corporation shall be allowed to make, or file, or be interested in more than one prime bid for the same work unless alternate bids are specifically called for. A person, firm, or corporation that has submitted a proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a proposal or quoting prices to other bidders or making a prime proposal.

11. Award of Contract. The Contract will be awarded to the lowest responsive responsible bidder by action of the governing Board. The District reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding. In the event an award is made to bidder, and such bidder fails or refuses to execute the Contract and provide the required documents within five (5) calendar days after award of the Contract to bidder, the District may award the Contract to the next lowest responsible and responsive bidder or release all bidders**. Each bid must conform and be responsive to the Contract Documents as defined in the General Conditions**.

12. Bid Protest Procedure. Any bidder may file a bid protest. The protest shall be filed in writing with the District's Director of Purchasing not more than five (5) business days after the date of the bid opening. An e-mail address shall be provided and by filing the protest, protesting bidder consents to receipt of e-mail notices for purposes of the protest and protest related questions and protest appeal, if applicable. The protest shall specify the reasons and facts upon which the protest is based.

a. Resolution of Bid Controversy: Once the bid protest is received, the apparent lowest responsible bidder will be notified of the protest and the evidence presented. If appropriate, the apparent low bidder will be given an opportunity to rebut the evidence and present evidence that the apparent low bidder should be allowed to perform the Work. If deemed appropriate by the District, an informal hearing will be held. District will issue a written decision within fifteen (15) calendar days of receipt of the protest, unless factors beyond the District's reasonable control prevent such resolution. The decision on the bid protest will be copied to all parties involved in the protest.

b. Appeal: If the protesting bidder or the apparent low bidder is not satisfied with the decision, the matter may be appealed to the Superintendent, or their designee, within three (3) business days after receipt of the District's written decision on the bid protest. The appeal must be in writing and sent via overnight registered mail with all accompanying information relied upon for the appeal and an e-mail address from which questions and responses may be provided to:

Jurupa Unified School District
Director of Purchasing
4850 Pedley Road
Jurupa Valley, CA 92509

c. Appeal Review: The Superintendent or their designee shall review the decision on the bid protest from the Superintendent or their designee and issue a written response to the appeal, or if appropriate, appoint a Hearing Office to conduct a hearing and issue a written decision. The written decision of the Superintendent or their designee or the Hearing Officer shall be rendered within fifteen (15) calendar days and shall state the basis for the decision. The decision concerning the appeal will be final and not subject to any further appeals.

d. Reservation of Rights to Proceed with Project Pending Appeal. The District reserves the right to proceed to award the Project and commence construction pending an Appeal. If there is State Funding or a critical completion deadline, the District may choose to shorten the time limits set forth in this Section if written notice is provided to the protesting party. E-mailed notice with a written confirmation sent by First Class Mail shall be sufficient to constitute written notice. If there is no written response to a written notice shortening time, the District may proceed with the award.

e. Finality. Failure to comply with this Bid Protest Procedure shall constitute a waiver of the right to protest and shall constitute a failure to exhaust the protesting bidder's administrative remedies.

13. Alternates. If alternate bids are called for, the Contract may be awarded at the election of the Governing Board to the lowest responsible and responsive bidder using the method and procedures outlined in the Notice Inviting Bids and as specified in the section entitled Alternate/Deductive Bid Alternates.

a. Subcontractor Listing for Alternates. If alternate bids are called for and the bidder intends to use different or additional subcontractors, a separate list of subcontractors must be submitted for each such alternate.

14. Evidence of Responsibility. Upon the request of the District, a bidder whose bid is under consideration for the award of the Contract shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, surety and insurance claims experience, construction experience, completion ability, workload, organization available for the performance of the Contract, and other factors pertinent to a Project of the scope and complexity involved.

15. Listing Subcontractors. Each bidder shall submit with his bid, on the form furnished with the Contract Documents, a list of the names, license numbers, scopes of work, locations of the places of business, contact information, and Department of Industrial Relations ("DIR") registration numbers of each subcontractor who will perform work or labor or render service to the bidder in or about the project, or a subcontractor who under subcontract to the bidder, specially fabricates and installs a portion of the work, in an amount in excess of one-half of 1 percent of the bidder's total bid as required by the Subletting and Subcontracting Fair Practices Act (Public Contract Code section 4100, et seq.) Pursuant to Labor Code section 1725.5, all subcontractors (of any tier) performing work on this Project must be properly registered with DIR.

16. Workers' Compensation. In accordance with the provisions of Labor Code section 3700, the successful bidder as the Contractor shall secure payment of compensation to all employees. The Contractor shall sign and file with the District the following certificate prior to performing the work under this contract: "I am aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract." The form of such certificate is included as a part of the Bid Documents.

17. Contractor's License. To perform the work required by this notice, the Contractor must possess the Contractor's License as specified in the Notice Inviting Bids, and the Contractor must maintain the license throughout the duration of the contract. If, at the time of bid, bidder is not licensed to perform the Project in accordance with Division 3, Chapter 9, of the Business and Professions Code for the State of California and the Notice to Contractors calling for bids, such bid will not be considered and the Contractor will forfeit its bid security to the District.

18. Anti-Discrimination. It is the policy of the District that in connection with all work performed under contracts, there be no discrimination against any prospective or active employee engaged in the work because of race, color, ancestry, national origin, religious creed, sex, age, or marital status. The Contractor

agrees to comply with applicable federal and California laws, including, but not limited to, the California Fair Employment and Housing Act, beginning with Government Code section 12900 and Labor Code section 1735. In addition, the Contractor agrees to require like compliance by any subcontractors employed on the work by such Contractor.

19. Preference for Materials and Substitutions.

a. One Product Specified. Unless the Plans and Specifications state that no Substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, construction, or any specific name, make, trade name, or catalog number, with or without the words, "or equal," such specification shall be read as if the language "or equal" is incorporated.

b. Request for Substitution. Bidder may, unless otherwise stated, offer any material, process, article, etc., which is materially equal or better in every respect to that so indicated or specified ("Specified Item") and will completely accomplish the purpose of the Contract Document. If bidder desires to offer a Substitution for a Specified Item, such bidder must make a request in writing on the District's Substitution Request Form ("Request Form") and submit the completed Request Form with the bidder's bid. The Request Form must be accompanied by evidence as to whether the proposed substitution:

1) Is equal in quality, service, and ability to the Specified Item as demonstrated by a side by side comparison of key characteristics and performance criteria (CSI comparison chart);
2) Will entail no changes in detail, construction and scheduling of related work;
3) Will be acceptable in consideration of the required design and artistic effect;
4) Will provide no cost disadvantage to the District;
5) Will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; and
6) Will require no change in the Contract Time.

In completing the Request Form, bidder must state with respect to each requested substitution whether bidder will agree to provide the Specified Item in the event that the District denies bidder's request for substitution of a Specified Item. In the event that bidder does not agree in the Request Form to provide the Specified Item and the District denies the requested Substitution, the bidder's bid shall be considered non-responsive and the District may award the Contract to the next lowest bidder or in its sole discretion, release all bidders. In the event that bidder has agreed in the Request Form to provide the Specified Item and the District denies bidder's requested substitution for a Specified Item, bidder shall execute the Agreement and provide the Specified Item without any additional cost or charge to the District, and if bidder fails to execute the Agreement with the Specified Item(s), bidder's bid bond will be forfeited.

After the bids are opened, the apparent lowest bidder shall provide, within five (5) calendar days of opening such bids, any and all Drawings, Specifications, samples, performance data, calculations, and other information as may be required to assist the Architect and the District in determining whether the proposed substitution is acceptable. The burden of establishing these facts shall be upon the bidder.

After the District's receipt of such evidence by bidder, the District will make its final decision as to whether the bidder's request for Substitution for any Specified Items will be granted. The District shall have sole discretion in deciding as to whether a proposed request for Substitution is equal to or better than a Specified Item. Any request for Substitution which is granted by the District shall be documented and processed through a Change Order. The District may condition its approval of any Substitution upon delivery to the District of an extended warranty or other assurances of adequate

performance of the Substitution. Any and all risks of delay due to DSA, or any other governmental agency having jurisdiction shall be on the bidder.

20. Disqualification of Bidders and Proposals. More than one proposal for the same work from any individual, firm, partnership, corporation, or association under the same or different names will not be accepted; and reasonable grounds for believing that any bidder is interested in more than one proposal for the work will be cause for rejecting all proposals in which such bidder is interested and the bidder will forfeit their bid security to the District.

21. Unbalanced or Altered Bids. Proposals in which the prices are obviously unbalanced, and those which are incomplete or show any alteration of form, or contain any additions or conditional or alternate bids that are not called for or otherwise permitted, may be rejected. A proposal on which the signature of the bidder has been omitted may be rejected. If, in the District's sole discretion, it determines any pricing, costs or other information submitted by a bidder may result in an unbalanced bid, the District may deem such bid non-responsive. A bid may be determined by the District to be unbalanced if the bid is based on prices significantly less than cost for some work and prices which are significantly overstated in relation to cost for other work, and if there is a reasonable doubt that the bid will result in the lowest overall cost to the District even though it may be the low evaluated bid, or if it is so unbalanced as to be tantamount to allowing an advanced payment.

22. Employment of Apprentices. The Contractor and all Subcontractors shall comply with the provisions of California Labor Code including, but not limited to sections 1777.5, 1777.6, and 1777.7 concerning the employment of apprentices. The Contractor and any Subcontractor under him shall comply with the requirements of said sections, including applicable portions of all subsequent amendments in the employment of apprentices; however, the Contractor shall have full responsibility for compliance with said Labor Code sections, for all apprenticeable occupations, regardless of any other contractual or employment relationships alleged to exist.

23. Non-Collusion Declaration. Public Contract Code section 7106 requires bidders to submit declaration of non-collusion with their bids. This form is included with the bid documents and must be signed and dated by the bidder under penalty of perjury.

24. Wage Rates, Travel and Subsistence.

a. The Contractor and all subcontractors shall comply with the requirements set forth in Division 2, Part 7, Chapter 1 of the Labor Code. Pursuant to Labor Code section 1770 et seq., the District has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft, classification or type of worker needed to execute the contract. Copies are available from the District to any interested party on request and are also available from the Director of the Department of Industrial Relations. The Contractor shall obtain copies of the above-referenced prevailing wage sheets and post a copy of such wage rates at appropriate, conspicuous, weatherproof points at the Site.

b. Any worker employed to perform work on the Project and such work is not covered by any classification listed in the published general prevailing wage rate determinations or per diem wages determined by the Director of the Department of Industrial Relations, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to the employment of such person in such classification.

c. Holiday and overtime work, when permitted by law, shall be paid for at the rate set forth in the prevailing wage rate determinations issued by the Director of the Department of Industrial Relations

or at least one and one-half (1½) times the specified basic rate of per diem wages, plus employer payments, unless otherwise specified in the Contract Documents or authorized by law.

d. These per diem rates, including holiday and overtime work, and employer payments for health and welfare, pension, vacation, and similar purposes, are on file at the administrative office of the District, located as noted above and are also available from the Director of the Department of Industrial Relations. It is the Contractor's responsibility to ensure the appropriate prevailing rates of per diem wages are paid for each classification. It shall be mandatory upon the Contractor to whom the Contract is awarded, and upon any subcontractor under such Contractor, to pay not less than the said specified rates to all workers employed by them in the execution of the Contract.

25. DIR Registration of Contractor and Subcontractors. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in the Labor Code, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

This Project is a public works project as defined in Labor Code section 1720. Each contractor bidding on this Project and all subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with DIR and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. For more information and up to date requirements, contractors are recommended to periodically review the DIR's website at www.dir.ca.gov. Contractor shall be solely responsible for ensuring compliance with Labor Code section 1725.5 as well as any requirements implemented by DIR applicable to its services or its subcontractors throughout the term of the Agreement and in no event shall contractor be granted increased payment from the District or any time extensions to complete the Project as a result of contractor's efforts to maintain compliance with the Labor Code or any requirements implemented by the DIR. Failure to comply with these requirements shall be deemed a material breach of this Agreement and grounds for termination for cause. The contractor and all subcontractors shall furnish certified payroll records as required pursuant Labor Code section 1776 directly to the Labor Commissioner in accordance with Labor Code section 1771.4 on at least on a monthly basis (or more frequently if required by the District or the Labor Commissioner) and in a format prescribed by the Labor Commissioner. The District reserves the right to withhold contract payments if the District is notified, or determines as the result of its own investigation, that contractor is in violation of any of the requirements set forth in Labor Code section 1720 et seq. at no penalty or cost to the District. Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE).

26. No Telephone or Facsimile Availability. No telephone or facsimile machine will be available to bidders on the District premises at any time.

27. Obtaining Bidding Documents. Bidding Documents, may be obtained from the Point of Contact listed on the Project Information page or the Notice Inviting Bids. If there is a cost associated with obtaining the bidding documents, it will also be listed in the Notice Inviting Bids.

28. Bidder shall utilize a complete set of Bidding Documents in preparing a bid. The failure or omission of bidder to receive any Bidding Document, form, instrument, Addendum, or other document shall not relieve bidder from any obligations with respect to the bid and/or Contract.

29. Addenda. Clarification or any other notice of a change in the Bidding Documents will be issued only by the District and only in the form of a written Addendum, transmitted by fax, e-mail, or available for pick up to all who are known by the issuing office to have received a complete set of Bidding Documents. Any other purported Addenda are void and unenforceable.

Bidder is responsible for ascertaining the disposition of all Addenda issued regardless of District notification and to acknowledge all Addenda in the submitted sealed bid prior to the bid opening. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for inspection. Each Addendum will be numbered, dated, and identified with the Project number. Oral statements or any instructions in any form, other than Addendum as described above, shall be void and unenforceable. Addenda issued by the District and not noted as being acknowledged by bidder as required in the Bid Form, may result in the bid being deemed non-responsive.

30. Debarment. Bidder may also be subject to debarment, in addition to seeking remedies for False Claims under Government Code section 12650 et seq. and Penal Code section 72, the District may debar a Contractor pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the Contractor has done any of the following:

a. Intentionally or with reckless disregard, violated any term of a contract with the District

b. Committed an act or omission which reflects on the Contractor's quality, fitness or capacity to perform work for the District;

c. Committed an act or offense which indicates a lack of business integrity or business honesty; or,

d. Made or submitted a false claim against the District or any other public entity (See Government Code section 12650, et seq., and Penal Code section 72)

31. UPCCAA. This Project is being let in accordance with the Uniform Public Construction Cost Accounting ("UPCCAA") set forth in Public Contract Code section 22000 et seq. Bidders shall comply with any requirements set forth in the UPCCAA including all guidelines and requirements in the current California Uniform Construction Cost Accounting Commission Cost Accounting Policies and Procedures Manual. If applicable, only Contractors included on the District's Qualified List shall submit bids for the Project as set forth in the UPCCAA.

CHECKLIST OF MANDATORY BID FORMS

(For Contractor's use and reference only. Additional documents may be required so bidders should carefully review all Contract Documents and Bid Documents)

- ❑ Bid Form
- ❑ Bid Bond (or Bid Guarantee form if Security is other than Bid Bond)
- ❑ Designation of Subcontractors
- ❑ Non-Collusion Declaration
- ❑ Contractor's Certificate Regarding Workers Compensation
- ❑ Contractor's Certificate Regarding Drug-Free Work Place
- ❑ Contractor's Certificate Regarding Alcoholic Beverage and Tobacco-Free Campus Policy
- ❑ Acknowledgment of Bidding Practices Regarding Indemnity
- ❑ Bidder's Acknowledgement of Project Schedule
- ❑ Substitution Request Form (If Substitution Request Form is not submitted then NO Substitutions will be allowed after the bids are opened)
- ❑ References
- ❑ DVBE Participation Statement
- ❑ Site Visit Verification
- ❑ California Air Resources Board (CARB) Compliance Certification
- ❑ Federal Funding Contract Compliance Form

BID FORM

TO: Jurupa Unified School District, acting by and through its Governing Board, herein called "District".

FROM: _____

1. Pursuant to and in compliance with your Notice Inviting Bids and other documents relating thereto, the undersigned bidder, having familiarized himself with the terms of the Contract, the local conditions affecting the performance of the Contract, the cost of the work at the place where the work is to be done, with the Drawings and Specifications, Addenda, and other Contract Documents, hereby proposes and agrees to perform within the time stipulated, the Contract, including all of its component parts, and everything required to be performed, including its acceptance by the District, and to provide and furnish any and all labor, materials, tools, expendable equipment, and utility and transportation services necessary to perform the Contract and complete all of the Work in a workmanlike manner required in connection with the construction of:

BID SCHEDULE NO.

25-26-13PD – Children and Family Services West

in the District described above, all in strict conformance with the drawings and other Contract Documents on file at the Purchasing Office of said District for amounts set forth herein.

2. BIDDER ACKNOWLEDGES THE FOLLOWING ADDENDUM:

Number (Included in Bid Docs)	Number	Number	Number	Number	Number	Number	Number
1							

Acknowledge the inclusion of all addenda issued prior to bid in the blanks provided above. Your failure to do so may render your bid non-responsive.

3. TOTAL CASH PURCHASE PRICE IN WORDS & NUMBERS:

_____ DOLLARS

($ _____)

4. PROJECT ALLOWANCE: The cash purchase price listed above is inclusive of the allowance specified in the bid documents. Any balance shall be returned to the District at the conclusion of the Project.

5. TIME FOR COMPLETION: The District may give a notice to proceed within ninety (90) days of the award of the bid by the District. Once the Contractor has received the notice to proceed, the Contractor shall complete the work in the time specified in the Agreement. By submitting this bid, Contractor has thoroughly studied this Project and agrees that the Contract Time for this Project is adequate for the timely and proper completion of the Project. Further, Contractor has included in the analysis of the time required for this Project, Rain Days, Governmental Delays, and the requisite time to complete Punch List.

6. In the event that the District desires to postpone giving the notice to proceed beyond this ninety (90) day period, it is expressly understood that with reasonable notice to the Contractor, giving the notice to proceed may be postponed by the District. It is further expressly understood by the Contractor, that the

Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of giving the notice to proceed.

7. If the Contractor believes that a postponement will cause a hardship to it, the Contractor may terminate the contract with written notice to the District within ten (10) days after receipt by the Contractor of the District's notice of postponement. Should the Contractor terminate the Contract as a result of a notice of postponement, the District shall have the authority to award the Contract to the next lowest responsible bidder, if applicable.

8. It is understood that the District reserves the right to reject any or all bids and/or waive any irregularities or informalities in this bid or in the bid process. The Contractor understands that it may not withdraw this bid for a period of ninety (90) days after the date set for the opening of bids.

9. Attached is bid security in the amount of not less than ten percent (10%) of the bid:

$ _____

Bid bond (10% of the Bid), certified check, or cashier's check (**circle one**)

10. The required List of Designated Subcontractors is attached hereto.

11. The required Non-Collusion Declaration is attached hereto.

12. The Substitution Request Form, if applicable, is attached hereto.

13. It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned after the opening of the bid, and within the time this bid is required to remain open, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the District a Contract in the form attached hereto in accordance with the bid as accepted, and that he or she will also furnish and deliver to the District the Performance Bond and Payment Bond, all within five (5) calendar days after award of Contract, and that the work under the Contract shall be commenced by the undersigned bidder, if awarded the Contract, by the start date provided in the District's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents.

14. The names of all persons interested in the foregoing proposal as principals are as follows:

_____

_____

_____

_____

_____

(IMPORTANT NOTICE: If bidder or other interested person is a corporation, state the legal name of such corporation, as well as the names of the president, secretary, treasurer, and manager thereof; if a co-partnership, state the true names of the firm, as well as the names of all individual co-partners comprising the firm; if bidder or other interested person is an individual, state the first and last names in full.)

15. PROTEST PROCEDURES. If there is a bid protest, the grounds shall be submitted as set forth in the Instructions to Bidders.

16. The undersigned bidder shall be licensed and shall provide the following California Contractor's license information:

License Number: _____

License Expiration Date: _____

Name on License: _____

Class of License: _____

DIR Registration Number: _____

If the bidder is a joint venture, each member of the joint venture must include the above information.

17. Time is of the essence regarding this Contract, therefore, in the event the bidder to whom the Contract is awarded fails or refuses to post the required bonds and return executed copies of the Agreement form within five (5) calendar days from the date of receiving the Notice of Award, the District may declare the bidder's bid deposit or bond forfeited as damages.

18. The bidder declares that he/she has carefully examined the location of the proposed Project, that he/she has examined the Contract Documents, including the Plans, General Conditions, Supplemental Conditions, Addenda, and Specifications, all others documents and requirements that are attached to and/or contained in the Project Manual, all other documents issued to bidders and read the accompanying instructions to bidders, and hereby proposes and agrees, if this proposal is accepted, to furnish all materials and do all work required to complete the said work in accordance with the Contract Documents, in the time and manner therein prescribed for the unit cost and lump sum amounts set forth in this Bid Form.

19. DEBARMENT. In addition to seeking remedies for False Claims under Government Code section 12650 et seq. and Penal Code section 72, the District may debar a Contractor pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the Contractor has done any of the following:

a. Intentionally or with reckless disregard, violated any term of a contract with the District;

b. Committed an act or omission which reflects on the Contractor's quality, fitness or capacity to perform work for the District;

c. Committed an act or offense which indicates a lack of business integrity or business honesty; or

d. Made or submitted a false claim against the District or any other public entity. (See Government Code section 12650, et seq., and Penal Code section 72)

20. DESIGNATION OF SUBCONTRACTORS. In compliance with the Subletting and Subcontracting Fair Practices Act (California Public Contract Code section 4100 et seq.) and any amendments thereof, each bidder shall list subcontractors on the District's form Subcontractor list. This subcontractor list shall be submitted with the bid and is a required form

I agree to receive service of notices at the e-mail address listed on the next page.

I, the below-indicated bidder, declare under penalty of perjury that the information provided and representations made in this bid are true and correct.

_____
Proper Name of Company

_____
Name of Bidder Representative

_____
Street Address

_____
City, State, and Zip

(_____) _____
Phone Number

(_____) _____
Fax Number

_____
E-Mail

By: _____ Date: _____
Signature of Bidder Representative

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the true name of the firm shall be set forth above, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

All signatures must be made in permanent blue ink.

BID GUARANTEE FORM

ATTACHMENT NO. 1 TO BID FORM

(Use only when *not* using a Bid Bond)

Accompanying this proposal is a cashier's check payable to the order of the Jurupa Unified School District or a certified check payable to the order of the Jurupa Unified School District in an amount equal to ten percent (10%) of the base bid and alternates ($_____).

The proceeds of this check shall become the property of said District, if, this proposal shall be accepted by the District through the District's Governing Board, and the undersigned fails to execute a Contract with and furnish the sureties required by the District within the required time; otherwise, said check is to be returned to the undersigned.

_____
Bidder

_____
Signature

_____
Typed or Printed Name

Note: Use this form, in lieu of Bid Bond form, when a cashier's check or certified check is accompanying the bid

BID BOND FORM

ATTACHMENT NO. 1 TO BID FORM

KNOW ALL MEN BY THESE PRESENT that we, the undersigned, (hereafter called "Principal"), and _____ (hereafter called "Surety"), are hereby held and firmly bound unto the Jurupa Unified School District (hereafter called "District") in the sum of _____ ($_____) for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors, and assigns.

SIGNED this _____ day of _____, 20___.

The condition of the above obligation is such that whereas the Principal has submitted to the District a certain Bid, attached hereto and hereby made a part hereof, to enter into a Contract in writing for the construction of 25-26-13PD – Children and Family Services West.

NOW, THEREFORE,

a. If said Bid is rejected, or

b. If said Bid is accepted and the Principal executes and delivers a Contract or the attached Agreement form within five (5) calendar days after acceptance (properly completed in accordance with said Bid), and furnishes bonds for his faithful performance of said Contract and for payment of all persons performing labor or furnishing materials in connection therewith,

Then this obligation shall be void; otherwise, the same shall remain in force and effect.

Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the Contract, or the call for bids, or the work to be performed thereunder, or the specifications accompanying the same, shall in anyway affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of said Contract, or the call for bids, or the work, or to the specifications.

In the event suit is brought upon this bond by the District and judgment is recovered, the Surety shall pay all costs incurred by the District in such suit, including without limitation, attorneys' fees to be fixed by the court.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year first set forth above.

By _____
(Corporate Seal) Principal's Signature

_____
Typed or Printed Name

_____
Principal's Title

By _____
(Corporate Seal) Surety's Signature

_____
Typed or Printed Name

_____
Title

_____
(Attached Attorney in Fact Certificate) Surety's Name

_____
Surety's Address

_____
Surety's Phone Number

IMPORTANT:

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant, or loan funds, it must also appear on the Treasury Department's most current list (Circular 570 as amended).

THIS IS A REQUIRED FORM.

Any claims under this bond may be addressed to:

(Name and Address of Surety)

_____

_____

_____

(Name and Address of agent or representative for
service of process in California if different from above)

_____

_____

_____

(Telephone Number of Surety and agent or
representative for service of process in California).

_____

_____

_____

DESIGNATION OF SUBCONTRACTORS

ATTACHMENT NO. 2 TO BID FORM

In compliance with the Subletting and Subcontracting Fair Practices Act (California Public Contract Code section 4100 et seq.,) and any amendments thereof, each Bidder shall set forth below: (a) the name, license number, and location of the place of business of each subcontractor who will perform work or labor or render service to the Contractor, who will perform work or labor or work or improvement to be performed under this Contract, or a subcontractor licensed by the State of California who, under subcontract to the Contractor, specially fabricates and installs a portion of the work or improvements according to detailed Drawings contained in the Plans and Specifications in an amount in excess of one-half of one percent of the Contractor's total bid; and (b) the portion and description of the work which will be done by each subcontractor under this Act. The Contractor shall list only one subcontractor for each such portion as is defined by the Contractor in this bid. All subcontractors shall be properly licensed by the California State Licensing Board.

If a Contractor fails to specify a subcontractor, or if a Contractor specifies more than one subcontractor for the same portion of work to be performed under the Contract in excess of one-half of one percent of the Contractor's total bid, the Contractor shall be deemed to have agreed that the Contractor is fully qualified to perform that portion, and that the Contractor alone shall perform that portion of the work.

No Contractor whose bid is accepted shall (a) substitute any subcontractor, (b) permit any subcontractor to be voluntarily assigned or transferred or allow the relevant portion of the work to be performed by anyone other than the original subcontractor listed in the original bid, or (c) sublet or subcontract any portion of the work in excess of one-half of one percent of the Contractor's total bid where the original bid did not designate a subcontractor, except as authorized in the Subletting and Subcontracting Fair Practices Act.

Subletting or subcontracting of any portion of the work in excess of one-half of one percent of the Contractor's total bid where no subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding, reduced to writing as a public record, of the authority awarding this Contract setting forth the facts constituting the emergency or necessity.

All subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with the California Department of Industrial Relations and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project.

NOTE: If alternate bids are called for and bidder intends to use different or additional subcontractors on the alternates, a separate list of subcontractors must be provided for each such Alternate.

DESIGNATION OF SUBCONTRACTORS FORM

Description & Portion of Work	Name of Subcontractor	Location & Place of Business	License Type and Number	*E-Mail & Telephone**	*DIR Registration Number**

Bidder's Name: _____

* This information (E-Mail & Telephone Number and DIR Registration Number) must be provided at the time of submission of bid or must be provided within 24 hours after the time set for the opening of bids. Bidders who choose to provide this information within 24 hours after the time set for the opening of bids are solely responsible to ensure the District receives this information in a timely manner. The District is not responsible for any problems or delays associated with emails, faxes, delivery, etc. Absent a verified fax or email receipt date and time by the District, the District's determination of whether the information was received timely shall govern and be determinative. Bidder shall not revise or amend any other information in this form submitted at the time of bid. The information submitted at the time of bid shall govern over any conflicts, discrepancies, ambiguities or other differences in any subsequent Subcontractor Designation Forms submitted by the bidder.

Proper Name of Bidder: _____

Date: _____

Name: _____

Signature of Bidder Representative: _____

Address: _____

Phone: _____

_____

NON-COLLUSION DECLARATION

ATTACHMENT NO. 3 TO BID FORM

The undersigned declares:

I am the _____ [Title] of _____ [Name of Company], the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [Date], at _____ [City], _____ [State].

Signed: _____

Typed or Printed Name: _____

CONTRACTOR'S CERTIFICATE REGARDING WORKERS' COMPENSATION

ATTACHMENT NO. 4 TO BID FORM

Labor Code section 3700 in relevant part provides:

Every employer except the State shall secure the payment of compensation in one or more of the following ways:

1. By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this State.

2. By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to employees.

3. For any county, city, city and county, municipal corporation, public district, public agency, or any political subdivision of the state, including each member of a pooling arrangement under a joint exercise of powers agreement (but not the state itself), by securing from the Director of Industrial Relations a certificate of consent to self-insure against workers' compensation claims, which certificate may be given upon furnishing proof satisfactory to the director of ability to administer workers' compensation claims properly, and to pay workers' compensation claims that may become due to its employees. On or before March 31, 1979, a political subdivision of the state which, on December 31, 1978, was uninsured for its liability to pay compensation, shall file a properly completed and executed application for a certificate of consent to self-insure against workers' compensation claims. The certificate shall be issued and be subject to the provisions of Section 3702.

I am aware of the provisions of Labor Code section 3700 which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provision before commencing the performance of the work of this Contract.

_____

Bidder's Name

_____

Signature

_____

Typed or Printed Name

_____

Date

In accordance with Article 5 (commencing at section 1860), Chapter 1, Part 7, Division 2 of the Labor Code, the above certificate must be signed and submitted with the Contractor's bid.

CONTRACTOR'S CERTIFICATE REGARDING DRUG-FREE WORKPLACE

ATTACHMENT NO. 5 TO BID FORM

This Drug-Free Workplace Certification form is required from all successful bidders pursuant to the requirements mandated by Government Code section 8350 et seq., the Drug-Free Workplace Act of 1990. The Drug-Free Workplace Act of 1990 requires that every person or organization awarded a contract or grant for the procurement of any property or service from any State agency must certify that it will provide a drug-free workplace by performing certain specified acts. In addition, the Act provides that each contract or grant awarded by a State agency may be subject to suspension of payments or termination of the contract or grant, and the Contractor or grantee may be subject to debarment from future contracting, if the contracting agency determines that specified acts have occurred.

Pursuant to Government Code section 8355, every person or organization awarded a contract or grant from a State agency shall certify that it will provide a drug-free workplace by doing all of the following:

1. Publishing a statement, notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's or organization's workplace, and specifying actions which will be taken against employees for violations of the prohibition.

2. Establishing a drug-free awareness program to inform employees about all of the following:

   a. The dangers of drug abuse in the workplace;
   b. The person's or organization's policy of maintaining a drug-free workplace;
   c. The availability of drug counseling, rehabilitation and employee-assistance programs; and
   d. The penalties that may be imposed upon employees for drug abuse violations;

3. Requiring that each employee engaged in the performance of the contract or grant be given a copy of the statement required by subdivision (a) and that, as a condition of employment on the contract or grant, the employee agrees to abide by the terms of the statement.

I, the undersigned, agree to fulfill the terms and requirements of Government Code section 8355 listed above and will (a) publish a statement notifying employees concerning the prohibition of controlled substance at the workplace, (b) establish a drug-free awareness program, and (c) require each employee engaged in the performance of the contact be given a copy of the statement required by section 8355(a) and require such employee agree to abide by the terms of that statement.

I also understand that if the Jurupa Unified School District determines that I have either (a) made a false certification herein, or (b) violated this certification by failing to carry out the requirements of Section 8355, that the contract awarded herein is subject to termination, suspension of payments, or both. I further understand that, should I violate the terms of the Drug-Free Workplace Act of 1990, I may be subject to debarment in accordance with the requirements of Section 8350 et seq.

I acknowledge that I am aware of the provisions of Government Code section 8350 et seq. and hereby certify that I will adhere to the requirements of the Drug-Free Workplace Act of 1990.

Date	Signature
Bidder's Name	Typed or Printed Name

CONTRACTOR'S CERTIFICATE REGARDING ALCOHOLIC BEVERAGE AND TOBACCO-FREE CAMPUS POLICY

ATTACHMENT NO. 6 TO BID FORM

The Contractor agrees that it will abide by and implement the District's Alcoholic Beverage and Tobacco-Free Campus Policy, which prohibits the use of alcoholic beverages and tobacco products, of any kind and at any time, in District-owned or leased buildings, on DISTRICT property and in DISTRICT vehicles. The Contractor shall procure signs stating "ALCOHOLIC BEVERAGE AND TOBACCO USE IS PROHIBITED" and shall ensure that these signs are prominently displayed in all entrances to school property at all times.

_____

Bidder's Name

_____

Signature

_____

Typed or Printed Name

_____

Date

ACKNOWLEDGMENT OF BIDDING PRACTICES REGARDING INDEMNITY

ATTACHMENT NO. 7 TO BID FORM

TO: Jurupa Unified School District

RE: Project Number 25-26-13PD

Construction Contract for Children and Family Services West

Please be advised that with respect to the above-referenced Project the undersigned Contractor on behalf of itself and all subcontractors hereby waives the benefits and protection of Labor Code section 3864, which provides:

"If an action as provided in this chapter is prosecuted by the employee, the employer, or both jointly against the third person results in judgment against such third person, the employer shall have no liability to reimburse or hold such third person harmless on such judgment or settlement in the absence of a written agreement to do so executed prior to the injury."

This Agreement has been signed by an authorized representative of the contracting party and shall be binding upon its successors and assignees. The undersigned further agrees to promptly notify the District of any changes of ownership of the contracting party or any subcontractor while this Agreement is in force.

_____
Bidder's Name

_____
Signature

_____
Typed or Printed Name

_____
Date

BIDDER'S ACKNOWLEDGEMENT OF PROJECT SCHEDULE

ATTACHMENT NO. 8 TO BID FORM

The undersigned acknowledges that he/she has carefully and thoroughly reviewed the Project Schedule, attached herein, and made a part of the Contract Documents.

The undersigned fully understands the manpower requirements necessary to complete the project in accordance with the Project Schedule, and agrees to furnish all labor, materials and equipment necessary, upon District acceptance of bidder's proposal, to fully comply with this schedule. The undersigned agrees to comply with any and all adjustments to schedule, as may be directed by the Construction/Project Manager, and which may be required to ensure project completion as stipulated in the Contract Documents.

The undersigned acknowledges that failure to comply with the above could result in delays to other contractors, whose bona fide and substantiated cost impacts, due to said delays, may be borne by the undersigned.

ACKNOWLEDGED AND AGREED:

_____
Bidder's Name

_____
Signature

_____
Typed or Printed Name

_____
Date

REQUEST FOR SUBSTITUTION AT TIME OF BID

ATTACHMENT NO. 9 TO BID FORM

Pursuant to Public Contract Code section 3400, bidder submits the following request to Substitute with the bid that is submitted. I understand that if the request to substitute is not "an/or equal" or is not accepted by District and I answer "no" I will not provide the specified item, then I will be held non-responsive and my bid will be rejected. With this understanding, I hereby request Substitution of the following articles, devices, equipment, products, materials, fixtures, patented processes, forms, methods, or types of construction:

	Specification Section	Specified Item	Requested Substituted Item	Contractor Agrees to Provide Specified Item if request to Substitute is Denied[1] (circle one)	District Decision (circle one)
1.				Yes No	Grant Deny
2.				Yes No	Grant Deny
3.				Yes No	Grant Deny
4.				Yes No	Grant Deny
5.				Yes No	Grant Deny
6.				Yes No	Grant Deny
7.				Yes No	Grant Deny
8.				Yes No	Grant Deny
9.				Yes No	Grant Deny
10.				Yes No	Grant Deny
11.				Yes No	Grant Deny
12.				Yes No	Grant Deny

This Request Form must be accompanied by evidence as to whether the proposed Substitution (1) is equal in quality, service, and ability to the Specified Item; (2) will entail no change in detail, construction, and scheduling of related work; (3) will be acceptable in consideration of the required design and artistic effect; (4) will provide no cost disadvantage to the District; (5) will require no excessive or more expensive

[1] Bidder must state whether bidder will provide the Specified Item in the event the Substitution request is evaluate and denied. If bidder states that bidder will not provide the Specified Item the denial of a request to Substitute shall result in the rejection of the bidder as non-responsive. However, if bidder states that bidder will provide the Specified Item in the event that bidder's request for Substitution is denied, bidder shall execute the Agreement and provide the Specified Item(s). If bidder refuses to execute the Agreement due to the District's decision to require the Specified Item(s) at no additional cost, bidder's Bid Bond shall be forfeited.

maintenance, including adequacy and availability of replacement parts; (6) will require no change of the construction schedule or milestones for the Project; and, (7) Contractor agrees to pay for any DSA Fees or other Governmental Plan check costs associated with this Substitution Request. (See General Conditions Section 3.6)

The undersigned states that the following paragraphs are correct:

1. The proposed Substitution does not affect the dimensions shown on the Drawings.

2. The undersigned will pay for changes to the building design, including Architect, engineering, or other consultant design, detailing, DSA plan check or other governmental plan check costs, and construction costs caused by the requested substitution.

3. The proposed substitution will have no adverse effect on other trades, the Contract Time, or specified warranty requirements.

4. Maintenance and service parts will be available locally for the proposed substitution.

5. In order for the Architect to properly review the substitution request, within five (5) days following the opening of bids, the Contractor shall provide samples, test criteria, manufacturer information, and any other documents requested by Architect or Architect's engineers or consultants, including the submissions that would ordinarily be required under Article 3.7 for Shop Drawings along with a document which provides a side by side comparison of key characteristics and performance criteria (often known as a CSI side by side comparison chart).

6. If Substitution Request is accepted by the District, Contractor is still required to provide a Submittal for the substituted item pursuant to Article 3.7 and shall provide required Schedule information (including schedule fragnets, if applicable) for the substituted item as required under Article 8.3.2.1. The approval of the Architect, Engineer, or District of the substitution request does not mean that the Contractor is relieved of Contractor's responsibilities for Submittals, Shop Drawings, and schedules under Article 3.7 and 8.3.2 if the Contractor is awarded the Project.

Name of Bidder: _____

By: _____

District: _____

By: _____

REFERENCES

ATTACHMENT NO. 10 TO BID FORM

Please list references of at least five public works projects of a similar nature (preferably a school/community college/university project) **completed** within the last three (3) years. The DISTRICT has discretion to require more than five references. Note that similar is defined as utilizing common trades, having like schedule and phasing requirements and having a budget of at least 70% of that for the project being bid.

1. Owner:_____

Address and Telephone:_____

Contact Person:_____

Project Name:_____

Dates of Commencement and completion of Construction Project:

_____

Contract Amount:_____

Architect:_____

Architect's Telephone:_____

2. Owner:_____

Address and Telephone:_____

Contact Person:_____

Project Name:_____

Dates of Commencement and completion of Construction Project:

_____

Contract Amount:_____

Architect:_____

Architect's Telephone:_____

3. Owner:_____

Address and Telephone:_____

Contact Person:_____

Project Name:_____

Dates of Commencement and completion of Construction Project:

_____

Contract Amount:_____

Architect:_____

Architect's Telephone:_____

4. Owner: _____

Address and Telephone: _____

Contact Person: _____

Project Name: _____

Dates of Commencement and completion of Construction Project:

_____

Contract Amount: _____

Architect: _____

Architect's Telephone: _____

5. Owner: _____

Address and Telephone: _____

Contact Person: _____

Project Name: _____

Dates of Commencement and completion of Construction Project:

_____

Contract Amount: _____

Architect: _____

Architect's Telephone: _____

_____

Bidder's Name

_____

Signature

_____

Typed or Printed Name

DISABLED VETERAN BUSINESS ENTERPRISE (DVBE) PARTICIPATION STATEMENT

ATTACHMENT NO. 11 TO BID FORM

Each bidder must complete this form in order to comply with the Jurupa Unified School District ("District") policy for participation of disabled veteran business enterprises (School District projects funded in whole or in part by the State of California pursuant to the Leroy F. Greene School Facilities Act of 1998. (Education Code §17070.10, *et seq*.)

Project Name: Children and Family Services West

Bid No.: 25-26-13PD

The undersigned, on behalf of the Contractor named below, certifies that the Contractor has made reasonable efforts to secure participation by DVBE in the Contract to be awarded for the above-referenced Bid No., including participation by DVBE subcontractors and/or material suppliers. **Check only one of the following**:

- ❑ The Contractor was unable after reasonable efforts to secure DVBE participation in the Contract for the above-referenced Project/Bid No. However, the Contractor will use DVBE services if the opportunity arises at any time during construction of the Project. Upon completion of the Project, the Contractor will report to the District the total dollar amount of DVBE participation in any Contract awarded to Contractor, and in any change orders, for the above-referenced Project.

- ❑ The Contractor has secured DVBE participation in the Contract for the above referenced Project/Bid No., and anticipates that such DVBE participation will equal approximately _____ _____Dollars ($_____), which represents approximately _____ percent (_____%) of the total Contract for such Project. Upon completion of the Project, Contractor will report to the District the actual total dollar amount of DVBE participation in the Contract awarded to Contractor, and in any change orders, for such Project

Company: _____

Name: _____

Title: _____

Signature: _____

Date: _____

SITE VISIT CERTIFICATION

ATTACHMENT NO. 12 TO BID FORM

I certify that I have visited the site of the proposed work and have fully acquainted myself with the conditions of the Project site, as well as those relating to construction and labor of the Project, and I fully understand the facilities, difficulties, and restrictions which may impact the total and adequate completion of the Project.

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

I agree to fully defend, indemnify and hold harmless the DISTRICT, Architect, Inspectors, Construction Manager (if any), and their directors, officers, employees, agents and volunteers from any damages, costs, expenses, or omissions related to conditions that could or should have been identified during my visit to the site.

Signature of Bidder: _____

Typed Name of Bidder: _____

CALIFORNIA AIR RESOURCES BOARD (CARB) COMPLIANCE CERTIFICATION

ATTACHMENT NO. 13 TO BID FORM

In accordance with California Air Resources Board's In-Use Off-Road Diesel-Fueled Fleets Regulation, the District is required to obtain copies of valid Certificates of Reported Compliance from the Contractor and all listed Subcontractors who own off-road diesel fleet vehicles in California and will use such vehicles on this Project before entering into a contract for this Project. This requirement covers all applicable vehicles and equipment as set forth Title 13, California Code of Regulations, Section 2449 and applies to the Contractor and all listed Subcontractors. Contractor hereby certifies the following:

1. Contractor and all listed Subcontractors agree to fully comply with all requirements set forth in Title 13, California Code of Regulations, Section 2449 (all references to this regulation herein shall include and incorporate any future amendments or updates.)

2. Contractor agrees to fully indemnify and defend the District from any claims, costs, damages, or any liability related to or arising from the failure of the Contractor or its Subcontractors to comply with all requirements set forth in Title 13, California Code of Regulations, Section 2449.

3. Within five (5) calendar days after the notice of award of Contract, Contractor shall provide copies of the valid Certificates of Reported Compliance for the Contractor and all listed Subcontractors.

4. If Contractor fails to provide all required Certificates of Reported Compliance within five (5) calendar days after the notice of award of award of Contract, the Contractor's bid shall be considered non-responsive and the District may award the Contract to the next lowest bidder or in its sole discretion, release all bidders.

5. Contractor agrees it will provide any additional information and documents reasonably requested by the District to confirm compliance with Title 13, California Code of Regulations, Section 2449 and any other requirements imposed by the California Air Resources Board.

6. Any exemptions to compliance with Title 13, California Code of Regulations, Section 2449 claimed by Contractor or any listed Subcontractor must be accompanied by a detailed explanation with specific citations to the applicable regulations governing such exemption and all supporting documentation within five (5) calendar days after the notice of award of award of Contract. Failure to meet these requirements will render the Contractor's bid non-responsive.

Company: _____

Name: _____

Title: _____

Signature: _____

Date: _____

FEDERAL FUNDING CONTRACT COMPLIANCE FORM

ATTACHMENT NO. 14 TO BID FORM

Federal Funding Contract Compliance Form

The following provisions are required and apply when federal funds are expended by Jurupa Unified School District (the "District") for any contract resulting from this procurement process. The District is the sub grantee or sub recipient by definition.

In addition to other provisions required by the federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable. Failure to submit this form or complete any portion of this Form may result in a contractor breaching the Agreement with the District.

BREACH OF CONTRACT BY EITHER PARTIES

(A) Contracts for more than the simplified acquisition threshold currently set at $250,000 which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide such sanctions and penalties as appropriate.

Pursuant to Federal Rules (A) above, when federal funds are expended by the District, the District reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

TERMINATION FOR CAUSE OR FOR CONVENIENCE

(B) Termination for cause or for convenience by the grantee or sub grantee including the manner by which it will be affected and the basis for settlement. (All contracts in excess of $10,000)

Pursuant to Federal Rules (B) above, when federal funds are expended by the District, the District reserves all rights to immediately terminate any agreement in excess of $10,000 resulting from this procurement process in the event of a breach or default of the agreement by Contractor, in the event Contractor fails to: (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. The District also reserves the right to terminate the contract immediately, with written notice to Contractor, for convenience, if the District believes, in its sole discretion that it is in the best interest of the District to do so. The Contractor will be compensated for work performed and accepted and goods accepted by the District as of the termination date if the contract is terminated for convenience of the District. Any award under this procurement process is not exclusive and the District reserves the right to purchase goods and services from other contractors when it is in the best interest of the District.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

EQUAL EMPLOYMENT OPPORTUNITY

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

Pursuant to Federal Rules (C) above, when federal funds are expended by the District, the Contractor agrees to comply with all applicable requirements as referenced in Federal Rule (C) above.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

DAVIS BACON ACT REQUIREMENTS

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of $2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Pursuant to Federal Rules (D) above, when federal funds are expended by the District, contractor, and its consultants, are subject to the requirements of the federal Davis-Bacon Act (40 U.S.C. 3141 et seq.) as well as the applicable California prevailing wage laws and requirements. Contractor understands and acknowledges that the provisions of the Davis Bacon Act set forth specific requirements regarding the wage rates payable to laborers employed on the Project. Contractor further acknowledges that certain California Labor Code sections are applicable to the Project in conjunction with the Davis-Bacon Act.

Contractor certifies that it understands the requirements of the Davis-Bacon Act and will assure compliance with all applicable Federal, State, County, City and local wage laws for all Project activities. Contractor shall be solely responsible for complying with any prevailing wage requirements applicable to the services to be provided by the Contractor pursuant to this Agreement. Contractor shall defend, indemnify and hold District harmless from and against any and all claims, liabilities, losses, damages,

including without limitation, any and all reasonable attorney's fees, costs, awards, fines, penalties or judgments, arising from Contractor's failure or alleged failure, to comply with any applicable Federal, State, County, City or local prevailing wage laws, including any claims or allegations made or brought by any governmental agency or instrumentality.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

CONTRACT WORK HOURS AND SAFETY STANDARDS ACT REQUIREMENTS

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of $100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

Pursuant to Federal Rules (E) above, when federal funds are expended by the District, the Contractor agrees to comply with all applicable requirements as referenced in Federal Rule (E) above.
Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

RIGHTS TO INVENTIONS MADE UNDER A CONTRACT AGREEMENT

(F) Rights to Inventions Made Under a Contract Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2(a) and the recipient or sub recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement"; the recipient or sub recipient must comply with the requirements of 37 CFR Part 401,"Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

Pursuant to Federal Rule (F) above, when federal funds are expended by the District, the Contractor certifies that during the term of an award for all contracts by the District resulting from this procurement process, the Contractor agrees to comply with all applicable requirements as referenced in Federal Rule (F) above.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

CLEAN AIR ACT (42 U.S.C.7401-7671q.)

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended – Contracts and sub grants of amounts in excess of $250,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable

standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

Pursuant to Federal Rule (G) above, when federal funds are expended by the District, the Contractor certifies that during the term of an award for all contracts by the District resulting from this procurement process, the Contractor agrees to comply with all applicable requirements as referenced in Federal Rule (G) above.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

DEBARMENT AND SUSPENSION

(H) Debarment and Suspension (Executive Orders 12549 and 12689) – A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the system for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p.235), "Debarment and Suspension". SAM exclusions contain the names of parties debarred, suspended or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Pursuant to Federal Rule (H) above, when federal funds are expended by the District, the Contractor certifies that during the term of an award for all contracts by the District resulting from this procurement process, the Contractor certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

BYRD ANTI-LOBBYING AMENDMENT (31 U.S.C. 1352)

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352) – Contractors that apply or bid for an award exceeding $100,000 must file the required certification. Each tier certified to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that take place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non- Federal award.
Pursuant to Federal Rule (I) above, when federal funds are expended by the District, the Contractor certifies that during the term and after the awarded term of an award for all contracts by the District resulting from this procurement process, the Contractor certifies that it is in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

a. No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the

entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.

c. The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding $100,000 in Federal funds to all appropriate tiers and that all sub recipients shall certify and disclose accordingly.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

RECORD RETENTION REQUIREMENTS FOR CONTRACTS PAID FOR WITH FEDERAL FUNDS – 2 CFR § 200.333

When federal funds are expended by the District for any contract resulting from this procurement process, the Contractor certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The Contractor further certifies that Contractor will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or sub grantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When federal funds are expended by the District for any contract resulting from this procurement process, the Contractor certifies that it will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6321, et seq.; 49 C.F.R. Part 18; Pub. L. 94-163, 89 Stat. 871).

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

CERTIFICATION OF COMPLIANCE WITH BUY AMERICA PROVISIONS

Contractor certifies that Contractor is in compliance with all applicable provisions of the Buy America Act. Purchases made in accordance with the Buy America Act must still follow the applicable

procurement rules calling for free and open competition.
Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

CERTIFICATION OF NON-COLLUSION STATEMENT

Contractor certifies under penalty of perjury that its response to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Does Contractor agree? YES _____Initials of Authorized Representative of Contractor

Contractor agrees to comply with all federal, state, and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged that Contractor certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted above.

Company Name:_____
Address:_____
City:_____**State:**_____ **Zip:**_____
Phone Number:_____
Email Address:_____
Printed Name of Authorized Representative:_____
Signature of Authorized Representative:_____ **Date:**_____

[End of Bid Documents to be Submitted with Bid]

AGREEMENT FORM

THIS AGREEMENT, entered into this_____ day of _____, 20____ in the County of Riverside of the State of California, by and between the Jurupa Unified School District, hereinafter called the "District", and _____, hereinafter called the "Contractor".

WITNESSETH that the District and the Contractor for the consideration stated herein agree as follows:

ARTICLE 1 - SCOPE OF WORK: The Contractor shall furnish all labor, materials, equipment, tools, utility and transportation services, and perform and complete all work required in connection with **25-26-13PD – Children and Family Services West** ("Project") in strict accordance with the Contract Documents enumerated in Article 7 below. The Contractor shall be liable to the District for any damages arising as a result of a failure to comply with that obligation, and the Contractor shall not be excused with respect to any failure to so comply by an act or omission of the Architect, Engineer, Inspector, Division of the State Architect (DSA), or representative of any of them, unless such act or omission actually prevents the Contractor from fully complying with the Contract Documents and the Contractor protests, in accordance with the Contract Documents, that the act or omission is preventing the Contractor from fully complying with the Contract Documents. Such protest shall not be effective unless reduced to writing and filed with the District office within seven (7) days of the date of occurrence of such act or omission preventing the Contractor from fully complying with the Contract Documents.

ARTICLE 2 - TIME OF COMPLETION: The District may give notice to proceed within ninety (90) days of the award of the bid by the District. Once the Contractor has received a notice to proceed, the Contractor shall reach Substantial Completion (See Article 1.1.46) of the Work within **Ninety-Five** (**95**) calendar days from receipt of the Notice to Proceed. This shall be called Contract Time. (See Article 8.1.1). It is expressly understood that time is of the essence.

Contractor has thoroughly studied the Project and has satisfied itself that the time period for this Project was adequate for the timely and proper completion of the Project within each milestone and within the Contract time. Further, Contractor has included in the analysis of the time required for this Project, items set forth in General Conditions Article 8.3.2.1, Submittal Schedules, Rain Day Float, and Governmental Delay Float.

In the event that the District desires to postpone giving the notice to proceed beyond this ninety (90) day period, it is expressly understood that with reasonable notice to the Contractor, giving the notice to proceed may be postponed by the District. It is further expressly understood by the Contractor, that the Contractor shall not be entitled to any claim of additional compensation as a result of the District's postponement of giving the notice to proceed.

If the Contractor believes that a postponement will cause hardship to it, the Contractor may terminate the Contract with written notice to the District within ten (10) days after receipt by the Contractor of the District's notice of postponement. It is further understood by the Contractor that in the event that the Contractor terminates the Contract as a result of postponement by the District, the District shall only be obligated to pay the Contractor for the work performed by the Contractor at the time of notification of postponement. Should the Contractor terminate the Contract as a result of a notice of postponement, the District shall have the authority to award the Contract to the next lowest responsible bidder.

ARTICLE 3 - LIQUIDATED DAMAGES: It being impracticable and infeasible to determine the amount of actual damage, it is agreed that the Contractor will pay the District the sum of **TWO**

THOUSAND FIVE HUNDRED DOLLARS ($2,500.00) per calendar day for each and every day of delay beyond the Contract Time set forth in Article 2 of this Agreement (inclusive of Milestones that are critical on the critical path or noted as critical to the District) as liquidated damages and not as a penalty or forfeiture. In the event Liquidated Damages are not paid, the Contractor further agrees that the District may deduct such amount thereof from any money due or that may become due the Contractor under the Contract (See Article 9.6 and 2.2 of the General Conditions).

ARTICLE 4 - CONTRACT PRICE: The District shall pay to the Contractor as full consideration for the faithful performance of the Contract, subject to any additions or deductions as provided in the Contract Documents, the sum of _____DOLLARS ($_____), said sum being the total amount stipulated in the Bid Contractor submitted. Payment shall be made as set forth in the General Conditions.

The Contractor acknowledges that an allowance of **FIFTY THOUSAND DOLLARS** (**$50,000.00**) is included in the contract price. Per the Supplementary General Conditions, any authorized change orders shall be first charged against this allowance and any remaining allowance balance available at the completion of the Project shall be credited to the District in the form of a change order.

The District shall retain **FIVE** PERCENT (**5**%), equal to_____ DOLLARS ($_____), of the Contract Price as retention. This retention will be returned to the Contractor, less any justified withholdings (as per the Contract Documents), after the formal notice of completion has been signed.

The Contractor elects or does not elect (**circle one**) to setup an escrow account for security deposits in lieu of retention. If the Contractor elects to do so, they must submit the request using the District's "Escrow Agreement for Security Deposits in Lieu of Retention" form along with this Agreement. Furthermore, the Contractor requests that the security deposit by funded be the District or the Contractor (**circle one**).

Should any Change Order result in an increase in the Contract Price, the cost of such Change Order shall be agreed to in advance by the Contractor and the District, subject to the monetary limitations set forth in Public Contract Code section 20118.4. In the event that the Contractor proceeds with a Change in work without an agreement between the District and Contractor regarding the cost of a Change Order, the Contractor waives any Claim of additional compensation for such additional work.

ARTICLE 5 - HOLD HARMLESS AGREEMENT: Contractor shall defend, indemnify and hold harmless District, Architect, Inspector, the State of California and their officers, employees, agents and independent contractors from all liabilities, claims, actions, liens, judgments, demands, damages, losses, costs or expenses of any kind arising from death, personal injury, property damage or other cause based or asserted upon any act, omission, or breach connected with or arising from the progress of Work or performance of service under this Agreement or the Contract Documents. As part of this indemnity, Contractor shall protect and defend, at its own expense, District, Architect, Construction Manager, Inspector, the State of California and their officers, employees, agents and independent contractors from any legal action including attorney's fees or other proceeding based upon such act, omission, breach or as otherwise required by this Article.

Furthermore, Contractor agrees to and does hereby defend, indemnify and hold harmless District, Architect, Construction Manager, Inspector, the State of California and their officers, employees, agents and independent contractors from every claim or demand made, and every liability, loss, damage, expense or attorney's fees of any nature whatsoever, which may be incurred by reason of:

(a) Liability for (1) death or bodily injury to persons; (2) damage or injury to, loss (including theft), or loss of use of, any property; (3) any failure or alleged failure to comply with any provision of law or the Contract Documents; or (4) any other loss, damage or expense, sustained by any person, firm or corporation or in connection with the Work called for in this Agreement or the Contract Documents, except for liability resulting from the sole or active negligence, or the willful misconduct of the District.

(b) Any bodily injury to or death of persons or damage to property caused by any act, omission or breach of Contractor or any person, firm or corporation employed by Contractor, either directly or by independent contract, including all damages or injury to or death of persons, loss (including theft) or loss of use of any property, sustained by any person, firm or corporation, including the District, arising out of or in any way connected with Work covered by this Agreement or the Contract Documents, whether said injury or damage occurs either on or off District property, but not for any loss, injury, death or damages caused by the sole or active negligence or willful misconduct of the District.

(c) Any dispute between Contractor and Contractor's subcontractors/supplies/ Sureties, including, but not limited to, any failure or alleged failure of the Contractor (or any person hired or employed directly or indirectly by the Contractor) to pay any Subcontractor or Materialman of any tier or any other person employed in connection with the Work and/or filing of any stop notice or mechanic's lien claims.

Contractor, at its own expense, cost, and risk, shall defend any and all claims, actions, suits, or other proceedings that may be brought or instituted against the District, its officers, agents or employees, on account of or founded upon any cause, damage, or injury identified herein Article 5 and shall pay or satisfy any judgment that may be rendered against the District, its officers, agents or employees in any action, suit or other proceedings as a result thereof.

The Contractor's and Subcontractors' obligation to defend, indemnify and hold harmless the Owner, Architect, Inspector, the State of California and their officers, employees, agents and independent contractors hereunder shall include, without limitation, any and all claims, damages, and costs for the following: (1) any damages or injury to or death of any person, and damage or injury to, loss (including theft), or loss of use of, any property; (2) breach of any warranty, express or implied; (3) failure of the Contractor or Subcontractors to comply with any applicable governmental law, rule, regulation, or other requirement; (4) products installed in or used in connection with the Work; and (5) any claims of violation of the Americans with Disabilities Act ("ADA").

ARTICLE 6 - PROVISIONS REQUIRED BY LAW: Each and every provision of law and clause required to be inserted in this Contract shall be deemed to be inserted herein, and this Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted or is not inserted correctly, then upon application of either party the Contract shall forthwith be physically amended to make such insertion or correction.

ARTICLE 7 - COMPONENT PARTS OF THE CONTRACT: The Contract entered into by this Agreement consists of the following Contract Documents, all of which are component parts of the Contract as if herein set out in full or attached hereto:

<u>Bid Documents</u>
- Notice Inviting Bids
- Instructions to Bidders
- General Conditions
- Supplementary and Special Conditions
- Specifications

All Addenda as Issued
Drawings/Plans

Submitted with Bid

Bid Form
Bid Bond or Bid Guarantee Form
Designation of Subcontractors
Non-Collusion Declaration
Trade Contractor's Certificate Regarding Worker's Compensation
Contractor's Certificate Regarding Drug-Free Workplace
Contractor's Certificate Regarding Alcohol and Tobacco
Acknowledgment of Bidding Practices Regarding Indemnity
Bidder's Acknowledgement of Project Schedule
Substitution Request Form
References
DVBE Participation Statement
Site Visit Certification
California Air Resources Board (CARB) Compliance Certification
Federal Funding Contact Compliance Form

Award Agreement

Agreement Form
Payment Bond
Performance Bond
Guarantee
General Liability Endorsement
Workers' Compensation/Employers Liability Endorsement
Automobile Liability Endorsement
Contractor's Certificate Regarding Background Checks

Close Out Documents

DVBE Participation and Close-Out Forms

All of the above named Contract Documents are intended to be complementary. Work required by one of the above named Contract Documents and not by others shall be done as if required by all.

ARTICLE 8 - PREVAILING WAGES: Wage rates for this Project shall be in accordance with the general prevailing rate of holiday and overtime work in the locality in which the work is to be performed for each craft, classification, or type of work needed to execute the Contract as determined by the Director of the Department of Industrial Relations. Copies of schedules of rates so determined by the Director of the Department of Industrial Relations are on file at the administrative office of the District and are also available from the Director of the Department of Industrial Relations. Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE).

The following are hereby referenced and made a part of this Agreement and Contractor stipulates to the provisions contained therein.

1. Chapter 1 of Part 7 of Division 2 of the Labor Code (Section 1720 et seq.)

2. California Code of Regulations, Title 8, Chapter 8, Subchapters 3 through 6 (Section 16000 et seq.)

ARTICLE 9 - RECORD AUDIT: In accordance with Government Code section 8546.7(and Davis Bacon, if applicable) and Article 13.11 of the General Conditions, records of both the District and the Contractor shall be subject to examination and audit for a period of five (5) years after a Final Retention Payment or the Recording of a Notice of Completion, whichever occurs first.

ARTICLE 10 - CONTRACTOR'S LICENSE: The Contractor must possess throughout the Project a Class **B** Contractor's License, issued by the State of California, which must be current and in good standing.

[SIGNATURES ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, this Agreement has been duly executed by the above named parties, on the day and year first above written.

Jurupa Unified School District	CONTRACTOR:
Signature:_____	_____ Typed or Printed Name
By: Jeffrey Lewis Director, Purchasing	_____ Title
Dated: _____	_____ Signature
	_____ Type or Printed Name
	_____ Title (Authorized Officers or Agents)
	_____ Signature
	(CORPORATE SEAL)

PAYMENT BOND

(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the JURUPA UNIFIED SCHOOL DISTRICT (sometimes referred to hereinafter as "Obligee") has awarded to _____ (hereinafter designated as the "Principal" or "Contractor"), an agreement for the work described as follows: **25-26-13PD – Children and Family Services West** (hereinafter referred to as the "Public Work"); and

WHEREAS, said Contractor is required to furnish a bond in connection with said Contract, and pursuant to California Civil Code section 9550;

NOW, THEREFORE, We, _____, the undersigned Contractor, as Principal; and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the JURUPA UNIFIED SCHOOL DISTRICT and to any and all persons, companies, or corporations entitled by law to file stop notices under California Civil Code section 9100, or any person, company, or corporation entitled to make a claim on this bond, in the sum of _____ Dollars ($_____), such sum being not less than one hundred percent (100%) of the total amount payable by said Obligee under the terms of said Contract, for which payment will and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, its heirs, executors, administrators, successors, or assigns, or subcontractor, shall fail to pay any person or persons named in Civil Code section 9100; or fail to pay for any materials, provisions, or other supplies, used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code, with respect to work or labor thereon of any kind; or shall fail to deduct, withhold, and pay over to the Employment Development Department, any amounts required to be deducted, withheld, and paid over by Unemployment Insurance Code section 13020 with respect to work and labor thereon of any kind, then said Surety will pay for the same, in an amount not exceeding the amount herein above set forth, and in the event suit is brought upon this bond, also will pay such reasonable attorneys' fees as shall be fixed by the court, awarded and taxed as provided in California Civil Code section 9550 et seq.

This bond shall inure to the benefit of any person named in Civil Code section 9100 giving such person or his/her assigns a right of action in any suit brought upon this bond.

It is further stipulated and agreed that the Surety of this bond shall not be exonerated or released from the obligation of the bond by any change, extension of time for performance, addition, alteration or modification in, to, or of any contract, plans, or specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described; or pertaining or relating to the furnishing of labor, materials, or equipment therefor; nor by any change or modification of any terms of payment or extension of time for payment pertaining or relating to any scheme or work of improvement herein above described; nor by any rescission or attempted rescission of the contract, agreement or bond; nor by any conditions precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled

to recover under any such contract or agreement or under the bond; nor by any fraud practiced by any person other than the claimant seeking to recover on the bond; and that this bond be construed most strongly against the Surety and in favor of all persons for whose benefit such bond is given; and under no circumstances shall the Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the Obligee and the Contractor or on the part of any obligee named in such bond; that the sole condition of recovery shall be that the claimant is a person described in California Civil Code section 9100, and who has not been paid the full amount of his or her claim; and that the Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned.

IN WITNESS WHEREOF this instrument has been duly executed by the Principal and Surety above named, on the_____ day of _____, 20___.

PRINCIPAL/CONTRACTOR:

_____

By: _____

SURETY:

_____

By: _____
Attorney-in-Fact

IMPORTANT: THIS IS A REQUIRED FORM.

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, Surety's name must also appear on the Treasury Department's most current list (Circular 570 as amended).

Any claims under this bond may be addressed to:

(Name and Address of Surety)	(Name and Address of agent or representative for service for service of process in California)
_____	_____
_____	_____
Telephone:_____	Telephone: _____

A notary public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss.
COUNTY OF)

On _____, before me, _____, personally appeared _____, who proved on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) as the Attorney-in-Fact of _____ (Surety) and acknowledged to me that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____ (SEAL)
Notary Public in and for said State

Commission expires:_____

NOTE: A copy of the power-of-attorney to local representatives of the bonding company must be attached hereto.

PERFORMANCE BOND

(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the JURUPA UNIFIED SCHOOL DISTRICT (sometimes referred to hereinafter as "Obligee") has awarded to _____ (hereinafter designated as the "Principal" or "Contractor"), an agreement for the work described as follows: **25-26-13PD – Children and Family Services West** (hereinafter referred to as the "Public Work"); and

WHEREAS, the work to be performed by the Contractor is more particularly set forth in that certain contract for said Public Work dated _____ _____, (hereinafter referred to as the "Contract"), which Contract is incorporated herein by this reference; and

WHEREAS, the Contractor is required by said Contract to perform the terms thereof and to provide a bond both for the performance and guaranty thereof.

NOW, THEREFORE, we, _____, the undersigned Contractor, as Principal, and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the JURUPA UNIFIED SCHOOL DISTRICT in the sum of _____ Dollars ($_____), said sum being not less than one hundred percent (100%) of the total amount payable by said Obligee under the terms of said Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the bounded Contractor, his or her heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in said Contract and any alteration thereof made as therein provided, on his or her part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill guarantees of all materials and workmanship; and indemnify, defend and save harmless the Obligee, its officers and agents, as stipulated in said Contract, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The Surety, for value received, hereby stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any change, extension of time, alteration in or addition to the terms of the contract or to the work to be performed there under or the specifications accompanying the same, nor by any change or modification to any terms of payment or extension of time for any payment pertaining or relating to any scheme of work of improvement under the contract. Surety also stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any overpayment or underpayment by the Obligee that is based upon estimates approved by the Architect. The Surety stipulates and agrees that none of the aforementioned changes, modifications, alterations, additions, extension of time or actions shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, modifications, alterations, additions or extension of time to the terms of the contract, or to the work, or the specifications as well notice of any other actions that result in the foregoing.

Whenever Principal shall be, and is declared by the Obligee to be, in default under the Contract, the Surety shall promptly either remedy the default, or shall promptly take over and complete the Contract through its agents or independent contractors, subject to acceptance and approval of such agents or independent contractors by Obligee as hereinafter set forth, in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages; or, at Obligee's sole discretion and election, Surety shall obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee of the lowest responsible bidder, arrange for a contract between such bidder and the Obligee and make available as Work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the "balance of the Contract Price" (as hereinafter defined), and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages. The term "balance of the Contract Price," as used in this paragraph, shall mean the total amount payable to Principal by the Obligee under the Contract and any modifications thereto, less the amount previously paid by the Obligee to the Principal, less any withholdings by the Obligee allowed under the Contract. Obligee shall not be required or obligated to accept a tender of a completion contractor from the Surety.

Surety expressly agrees that the Obligee may reject any agent or contractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal. Unless otherwise agreed by Obligee, in its sole discretion, Surety shall not utilize Principal in completing the Contract nor shall Surety accept a bid from Principal for completion of the work in the event of default by the Principal.

No final settlement between the Obligee and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

The Surety shall remain responsible and liable for all patent and latent defects that arise out of or relate to the Contractor's failure and/or inability to properly complete the Public Work as required by the Contract and the Contract Documents. The obligation of the Surety hereunder shall continue so long as any obligation of the Contractor remains.

Contractor and Surety agree that if the Obligee is required to engage the services of an attorney in connection with enforcement of the bond, Contractor and Surety shall pay Obligee's reasonable attorneys' fees incurred, with or without suit, in addition to the above sum.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including reasonable attorneys' fees to be fixed by the Court.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, 20___.

PRINCIPAL/CONTRACTOR:

_____

By: _____

SURETY:

_____

By: _____
Attorney-in-Fact

The rate of premium on this bond is _____ per thousand.

The total amount of premium charged: $_____ (This must be filled in by a corporate surety).

IMPORTANT: THIS IS A REQUIRED FORM.

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, Surety's name must also appear on the Treasury Department's most current list (Circular 570 as amended).

Any claims under this bond may be addressed to:

(Name and Address of Surety)	(Name and Address of agent or representative for service for service of process in California)
_____	_____
_____	_____
Telephone:_____	Telephone: _____

A notary public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss.
COUNTY OF)

On _____, before me, _____, personally appeared _____, who proved on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) as the Attorney-in-Fact of _____ (Surety) and acknowledged to me that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____ (SEAL)
Notary Public in and for said State

Commission expires:_____

NOTE: A copy of the power-of-attorney to local representatives of the bonding company must be attached hereto.

GUARANTEE

Guarantee for _____. We hereby guarantee that the **25-26-13PD Children and Family Services West**, which we have installed in _____ has been done in accordance with the Contract Documents, including without limitation, the drawings and specifications, and that the work as installed will fulfill the requirements included in the bid documents. The undersigned and its surety agrees to repair or replace any or all such work, together with any other adjacent work, which may be displaced in connection with such replacement, that may prove to be defective in workmanship or material within a period of One (1) year from the date of the Notice of Completion of the above-mentioned structure by the Jurupa Unified School District, ordinary wear and tear and unusual abuse or neglect excepted.

In the event the undersigned or its surety fails to comply with the above-mentioned conditions within a reasonable period of time, as determined by the District, but not later than ten (10) days after being notified in writing by the District or within forty eight (48) hours in the case of an emergency or urgent matter, the undersigned and its surety authorizes the District to proceed to have said defects repaired and made good at the expense of the undersigned and its surety, who will pay the costs and charges therefor upon demand. The undersigned and its surety shall be jointly and severally liable for any costs arising from the District's enforcement of this Guarantee.

	Countersigned
_____	_____
(Proper Name)	(Proper Name)
By: _____	By: _____
_____	_____
(Signature of Subcontractor or Contractor)	(Signature of General Contractor if for Subcontractor)

Representatives to be contacted for service:

Name: _____

Address: _____

_____

Phone Number: _____

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

This Escrow Agreement is made and entered into by and between the Jurupa Unified School District, Jurupa Valley, CA, hereinafter called "Owner", and _____ whose address is _____, hereinafter called "Contractor", and _____ whose address is _____, hereinafter called "Escrow Agent".

For the consideration hereinafter set forth, the Owner, Contractor and Escrow Agent agree as follows:

1. Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with Escrow Agent as a substitute for Retention earnings required to be withheld by Owner pursuant to the Construction Contract entered into between the Owner and Contractor for ____ _____in the amount of _____ dated _____ (hereinafter referred to as the "Contract"). Alternatively, on written request of the Contractor, the Owner shall make payments of the Retention earnings directly to the escrow agent. When Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Owner within ten (10) days of deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as Retention under the terms of the Contract between the Owner and Contractor. Securities shall be held in the name of the Owner, and shall designate the Contractor as beneficial owner.

2. The Owner shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.

3. When the Owner makes payments of Retentions earned directly to the Escrow Agent, the Escrow Agent shall hold them for the benefit of the Contractor until such time as the escrow created under this Contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the Owner pays the Escrow Agent directly.

4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account and all expenses of the Owner. These expenses and payment terms shall be determined by the Owner, Contractor, and Escrow Agent.

5. The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to the Owner.

6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from the Owner to the Escrow Agent that Owner consents to the withdrawal of the amount sought to be withdrawn by Contractor.

7. The Owner shall have a right to draw upon the securities in the event of default by the Contractor. Upon seven (7) days' written notice to the Escrow Agent from the Owner of the notice of default under Article 2.2, Article 9.6 or Article 14, the Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the Owner.

8. Upon receipt of written notification from the Owner certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees

and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payment of fees and charges.

9. Escrow Agent shall rely on the written notifications from the Owner and the Contractor pursuant to Sections (5) to (8), inclusive, of this Agreement and the Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of the securities and interest as set forth above.

10. The names of the persons who are authorized to give written notice or to receive written notice on behalf of the Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

On behalf of Owner:

_____
Title

_____
Name

_____
Signature

_____
Address

On behalf of Contractor:

_____
Title

_____
Name

_____
Signature

_____
Address

On behalf of Agent:

_____
Title

_____
Name

Signature

Address

At the time the Escrow Account is opened, the Owner and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date set forth above.

OWNER	CONTRACTOR
Title	Title
Name	Name
Signature	Signature

INSURANCE DOCUMENTS & ENDORSEMENTS

The following insurance endorsements and documents must be provided to the Jurupa Unified School District within five (5) calendar days after receipt of notification of award. If the apparent low bidder fails to provide the documents required below, the District may award the Contract to the next lowest responsible and responsive bidder or release all bidders, and the bidder's bid security will be forfeited. All insurance provided by the bidder shall fully comply with the requirements set forth in Article 11 of the General Conditions.

1. General Liability Insurance: Certificate of Insurance with all specific insurance coverages set forth in Article 11 of the General Conditions, proper Project description, designation of the District as the Certificate Holder, a statement that the insurance provided is primary to any insurance obtained by the District and minimum of 30 days' cancellation notice. Bidder shall also provide required additional insured endorsement(s) designating all parties required in Article 11 of the General Conditions. The additional insured endorsement shall be an ISO CG 20 10 (04/13), or an ISO CG 20 38 (04/13), or their equivalent as determined by the District in its sole discretion.

Incidents and claims are to be reported to the insurer at:

Attn: _____
(Title) (Department)

_____
(Company)

_____
(Street Address)

_____
(City) (State) (Zip Code)

(_____) _____
(Telephone Number)

2. Workers' Compensation/ Employer's Liability Insurance: Certificate of Workers' Compensation Insurance meeting the coverages and requirements set forth in Article 11 of the General Conditions, minimum of 30 days' cancellation notice, proper Project description, waiver of subrogation and any applicable endorsements.

3. Automobile Liability Insurance: Certificate of Automobile Insurance meeting the coverages and requirements set forth in Article 11 of the General Conditions, minimum 30 days' cancellation notice, any applicable endorsements and a statement that the insurance provided is primary to any insurance obtained by the District.

Incidents and claims are to be reported to the insurer at:

Attn: _____
(Title) (Department)

_____
(Company)

_____
(Street Address)

_____
(City) (State) (Zip Code)

(_____) _____
(Telephone Number)

DATE:_____ _____
CONTRACTOR

By:_____

Signature

DISABLED VETERAN BUSINESS ENTERPRISE (DVBE) CONTRACTOR CLOSE-OUT STATEMENT

The Contractor shall complete this form, as a condition to Final Payment, for purposes of reporting participation by Disabled Veteran Business Enterprises (DVBE) in the Contract for the Project/Bid No. specified below.

Project Name: Children and Family Services West

Bid No.: 25-26-13PD

Name	Address/Phone	Category of Work*	$ Amount of Contract

* Categories of work include: (1) construction services (specify services that DVBE will provide); (2) architecture and engineering services; (3) procurement of materials, supplies and equipment; and (4) information technology.

The undersigned, on behalf of the Contractor, certifies that DVBE participation on the Contract for Bid No. _____equaled _____ dollars ($_____), which represents approximately ____ percent (___%) of the total Contract price including change orders for the Project.

Company: _____

Name:_____

Title: _____

Signature: _____

Date: _____

CONTRACTOR CERTIFICATION REGARDING BACKGROUND CHECKS

_____ certifies that it has performed one of the following:
[Name of contractor/consultant]

☐ Pursuant to Education Code section 45125.1, Contractor has conducted criminal background checks, through the California Department of Justice, of all employees providing services to the Jurupa Unified School District, pursuant to the contract/purchase order dated _____, and that none have been convicted of serious or violent felonies, as specified in Penal Code sections 1192.7(c) and 667.5(c), respectively.

As further required by Education Code section 45125.1, attached hereto as Attachment "A" is a list of the names of the employees of the undersigned who may come in contact with pupils.

OR

☐ Pursuant to Education Code section 45125.2, Contractor will ensure the safety of pupils by one or more of the following methods:

☐ 1. The installation of a physical barrier at the worksite to limit contact with pupils.

☐ 2. Continual supervision and monitoring of all employees of the entity by an employee of the entity whom the Department of Justice has ascertained has not been convicted of a violent or serious felony.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct.

Date_____, 20___

_____
[Name of Contractor/Consultant]

_____

By its:_____

ATTACHMENT A:

CONTRACTOR CERTIFICATION REGARDING BACKGROUND CHECKS

(INSERT NAMES OF EMPLOYEES WHO MAY COME IN CONTACT WITH PUPILS)

ARTICLE 1
DEFINITIONS

1.1 BASIC DEFINITIONS

NOTE: The following shall not be construed as a comprehensive list of all definitions in the Contract Documents and there may be other definitions set forth in the Contract Documents. Additionally, any references to any DSA forms, documents or requirements shall be construed to incorporate any updates, supplements, or additions. The Contractor shall be required to meet the latest DSA requirements applicable to the Project.

1.1.1 Action of the Governing Board is a vote of a majority of the District's Governing Board.

1.1.2 Approval means written authorization through action of the Governing Board. The Governing board has delegated to the Superintendent or their designee the authority to approve certain modifications, Change Orders or Immediate Change Directives (Subject to the limits of the Delegation of Authority provided by the Board). In no case shall the Assistant Superintendent have authority to approve total Change Orders or Modifications to the Project exceeding 10% of the Contract Sum.

1.1.3 Architect means the architect, engineer, or other design professional engaged by the District to design and perform general observation of the work of construction and interpret the Drawings, Specifications, Addenda and other Contract Documents for the Project. Also see Article 4.

1.1.4 As-Builts are a set of Plans and Specifications maintained by the Contractor clearly showing all changes, revisions, substitutions, field changes, final locations, and other significant features of the Project. The As-Builts shall be maintained continuously throughout the Work for the Project and is both a prerequisite to the issuance of Payment Application and a requirement for Contract Close-Out. See Article 3.17

1.1.5 Beneficial Occupancy is the point in time when a building or buildings are fit for occupancy is fit for occupancy and its intended use. Basic requirements are the building is safe, at or near Substantial Completion, and all fire/ life safety items are approved and operational. The fact that a building is occupied does not mean that the building is ready for Beneficial Occupancy if there are elements that are unsafe or if fire/ life safety items are not approved and operational. Taking occupancy on a structure that is under a fire watch is not considered Beneficial Occupancy. Further, taking of Beneficial Occupancy is not a point in time when retention is due unless the entire school has obtained a Certificate of Substantial Completion that meets the definition of 1.1.46.

1.1.6 Claims. A Claim is a request for payment, supported by back-up documentation which includes, invoices time sheets, or other documents substantiating legitimacy or entitlement that is submitted during the Project or immediately following the Project made prior to the Final Retention Payment Application and prior to Final Completion of the Project. A "Claim" means a separate demand by the Contractor for (1) time extension, (2) payment of money or damages arising from Work done by or on behalf of the Contractor pursuant to the CONTRACT and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (3) and amount the payment of which is disputed by the District. See Article 4.6.

1.1.7 Change Order (CO). A CO is a written instrument prepared by the Architect and signed by the District (as authorized by the District's Governing Board), the Contractor, and the Architect, stating their agreement upon (1) A description of a change in the Work, (2) The amount of the adjustment in the Contract Sum, if any; and (3) The extent of the adjustment in the Contract Time, if any. See Article 7.2.

1.1.8 Change Order Request (COR). A COR is a written request supported by backup documentation prepared by the Contractor requesting that the District and the Architect issue a CO based upon a proposed change, or a change that results in an adjustment in cost, time or both, or arising from an RFP, CCD or ICD. (See Article 7.6)

1.1.9 Close-Out means the process for Final Completion of the Project, but also includes the requirements for the DSA Certification that the Project is Complete (See DSA Certification Guide). See Article 9.9.

1.1.10 Construction Change Document (CCD). A Construction Change Document is a DSA term that is utilized to address changes to the DSA approved Plans and Specifications. There are two types of Construction Change Documents. (1) DSA approved CCD Category A (DSA Form 140) for work affecting structural, access or fire/ life safety of the Project which will require a DSA approval; and, (2) CCD Category B (DSA Form 141) for work NOT affecting structural safety, access compliance or fire/ life safety that will not require a DSA approval (except to confirm that no approval is required). See Article 7.3.

1.1.11 Complete/ Completion/ Final Completion means that all Work in the Contract Documents is finished, the requirements of the Contract Documents have been met, the Project has been Closed Out, and all Work has ceased on the Project. This may also be referred to as Final Completion. In most cases, the recording of a Notice of Completion shall represent Completion of the Project. Beneficial Occupancy does not mean the Work is Complete.

1.1.12 Completion Date is the date when all Work for the Project shall be Substantially Complete and is the date assigned at the end of the Contract Time for the Project. See Article 1.1.46.

1.1.13 Construction Manager. The Construction Manager is a consultant to the District contracted to assist in Project planning, management and construction of the Project. If there is a Construction Manager, they may assist in various aspects of the Project including, but not limited to Monitoring the progress of the construction, reviewing and monitoring the schedule, progress of work, monitoring pay requests, facilitating communications, advising the District and its Board of Education on various aspects of the construction process, monitoring the RFI, COR, CCD, ICD, RFP, Claims, Disputes and other Project related processes.

1.1.14 Contract or Agreement when the terms are used in these General Conditions shall be references to the Contract Documents as defined herein.

1.1.15 Contract Documents (sometimes referred to as Construction Documents) consist of the Agreement between District and Contractor (hereinafter the Agreement or Contract), Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to bid, instructions to bidders, notice to bidders, and the requirements contained in the Bid Documents, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is a written amendment to the Contract signed by parties, a Change Order, a Construction Change Document, or a written order for a minor change in the Work issued by the Architect. The Contract Documents collectively form the Contract. The Contract represents the entire and integrated Agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a written Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind between the Architect and Contractor, between the District and any Subcontractor or Sub-subcontractor, or between any persons or entities other than the District and the Contractor. The Architect shall, however, be entitled to performance

and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

1.1.16 Contract Time is the time period specified in the Contract Documents in which the Project shall be completed. This is sometimes referred to a Contract Duration, or "time in which the Contractor has to complete the Project". See Article 8.1.1

1.1.17 Contractor, District, and Architect are those mentioned as such in the Agreement. They are treated throughout the Contract Documents as if they are of singular number and neuter gender. Any reference to "Owner" shall mean "District" or Jurupa Unified School District.

1.1.18 Cure is the act of remedying a material failure to perform under the terms of the Contract Documents during the time provided to correct Contractor's Default. Specific time periods are provided to Cure and Correct a Contractor Default under Article 14 and for a Partial Default under Article 2.2 as well as elsewhere in the Contract Documents.

1.1.19 Days means calendar days unless otherwise specifically stated.

1.1.20 Default is a material breach of Contract. A Termination for Cause under Article 14 is a declaration of Default of the Contract and shall act as a demand upon the Surety to perform under the terms of the Performance Bond. Partial Defaults may also be tendered to the Surety at District's discretion. See Article 2.2.

1.1.21 Dispute. A dispute is a disagreement on terms or conditions of the Project where the Contractor's opinion of the Project, Payment, Change Order or Request for Proposal differs from that of the District or Architect. A dispute only rises to the level of a claim once the dispute is assembled with back-up documentation and presented for evaluation. See Article 4.6

1.1.22 District Representative is the person designated by the District to represent the District during the Construction for the Project. This District Representative shall have the delegated authority as further defined in Article 1.1.2. This District Representative may be an employee of the District who may have the delegated authority as set forth in Article 1.1.3, and may also include Construction Managers. In some cases, the District and its Board may be assisted by a Construction Manager. When a Construction Manager is assisting the District, the Contractor, Architect, and Inspector shall have a primary contact with the District's Construction Manager who will advise the District.

1.1.23 Drawings or Plans are graphic and pictorial portions of the Contract Documents prepared for the Project and approved changes thereto, wherever located and whenever issued, showing the design, location, and scope of the Work, generally including Plans, elevations, sections, details, schedules, and diagrams as drawn or approved by the Architect. Sometimes Drawings will also be included in Addenda, Change Orders, and Specifications.

1.1.24 DSA is the Division of State Architect. DSA is the agency that provides design and construction oversight for K-12 Schools, Community Colleges, and State Funded Charter School Projects. DSA is the responsible agency for this Project and Contractor has submitted a bid for the Project since Contractor is familiar with Contractor's responsibilities under the DSA requirements more thoroughly set forth at Title 24 of the California Code of Regulations. Contractor agrees to abide by the jurisdiction of DSA and shall construct the Project to conform with the approved Plans, Specifications, Addenda, and Change Orders (inclusive of approved CCD's and ICD's issued by the District pending CCD approval). See DSA website at http://www.dgs.ca.gov/dsa.

1.1.25 Emergency shall be defined as a sudden, unexpected occurrence, involving a clear and imminent threat to the continuation of school classes, a critical path delay that will result in not being able to occupy the school when students arrive to use the facility, danger from the facility or from outside the facility, Act of God, or other action which requires immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services.

1.1.26 Float the total number of days an activity may be extended or delayed without delaying the Completion Date shown in the schedule. Float will fall into three categories: (1) Rain Days; (2) Governmental Delays; and, (3) Project Float. See Article 8.1.4.

1.1.27 Immediate Change Directive. (ICD) A written order prepared by the Architect and signed by the District and the Architect, directing a change in the Work where the Work must proceed immediately and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. See Article 7.3

1.1.28 Inspector of Record (IOR)/ Project Inspector (PI)/ Inspector is the individual retained by the District in accordance with Title 24 of the California Code of Regulations and who will be assigned to the Project

1.1.29 Notice of Non-Compliance (DSA Form 154) is a document issued by the Inspector if there is a deviation from the DSA approved Plans, Specifications, and Change Orders. See Article 7.1.2.

1.1.30 Notice to Proceed (NTP) is a written notice provided by the District after bids are awarded, and contractually required paperwork and submissions are completed noticing Trade Contractors that Work may proceed. The NTP represents the formal commencement of Work.

1.1.31 Payment Application or Certificate of Payment is the Contractor's certified representation of the actual level of Work performed on the Project. Payment Applications are sometimes also called "Certificate of Payment", "Request for Payment", "Payment Application", or similar terms, and shall follow the Schedule of Values that are approved by the Architect, Inspector and District. See Article 9.3.

1.1.32 Project is the complete construction of the Work performed in accordance with the Contract Documents.

1.1.33 Project Manual is the volume assembled for the Work which may include, without limitation, the bidding requirements, sample forms, Conditions of the Contract, and Specifications.

1.1.34 Provide shall include "provide complete in place," that is "furnish and install complete."

1.1.35 Punch List/ Punch Item/ Incomplete Punch Item is a list of minor repair items, prepared after the issuance of a Certificate of Substantial Completion, by the Inspector and Architect of Work required in order to complete the Contract Documents and ensure compliance with the DSA Approved Plans so the Project may be Closed Out. Issuance of the Retention Payment is dependent of the proper completion of the Punch List. See Article 9.9.

1.1.35.1 *Contractor's List of Punch Items* is a list of minor repair items the Contractor submits when the Contractor considers the Work Substantially Complete. Submission of this List of Incomplete Punch Items is the Contractor's representation that the Project is Substantially Complete. See Article 9.9.1

1.1.36 Request for Information (RFI) is a written request prepared by the Contractor requesting the Architect to provide additional information necessary to clarify or amplify an item which the Contractor believes is not clearly shown or called for in the Drawings or Specifications, or to address problems which have arisen under field conditions. See Article 7.4.

1.1.37 Request for Proposal (RFP) is a written request prepared by the Architect (and/or CM) requesting the Contractor to submit to an estimate of the effect of a proposed change on the Contract Price and (if applicable) the Contract Time. See Article 7.5.

1.1.38 Safety Orders are those issued by any city, county, state or federal agency having jurisdiction over the Project.

1.1.39 Schedule is the Contractor's view of the practical way in which the Work will be accomplished. In this Agreement there is a requirement for a Baseline Schedule and regular Schedule Updates that show all Work to be completed during the Contract Time and shall include all items listed under Article 8.3.2.9.1. See Article 8 of the General Conditions.

1.1.40 Schedule of Values is a detailed breakdown of the Contract Price for each Project, building, Phase of Work or Site as determined by the District. This Schedule of Values shall adequately detail the price for the Work so Progress Payments Applications can be meaningfully reviewed by the Inspector, Architect of Record, Engineer of Record, and District. (See Article 9.2)

1.1.41 Separate Contracts are Contracts that the District may have with other Contractors, vendors, suppliers, or entities to perform Work on the Project. This may include, but is not limited to Multi-Prime Trade Contractors, furniture installers, testing agencies, clean-up contractors, or network or low voltage contractors. Contractor shall plan for certain other contractors that may also be working on the Project site and address these other contractors in Contractor's Schedule. See Article 6.

1.1.42 Site refers to the grounds of the Project as defined in the Contract Documents and such adjacent lands as may be directly affected by the performance of the Work.

1.1.43 Specifications are that portion of the Contract Documents consisting of the written requirements for material, equipment, construction systems, instructions, quality assurance standards, workmanship, and performance of related services.

1.1.44 Standards, Rules, and Regulations referred to are recognized printed standards and shall be considered as one and a part of these Specifications within limits specified. Federal, state and local regulations are incorporated into the Contract Documents by reference.

1.1.45 Stop Work Order, or an Order to Comply, is issued when either (1) the Work proceeds without DSA approval; (2) the Work proceeds without a DSA Inspector of Record, or (3) where DSA determines that the Work is not being performed in accordance with applicable rules and regulations, and would compromise the structural integrity of the Project or would endanger lives. If a Stop Work Order is issued, the Work in the affected area shall cease until DSA withdraws the Stop Work Order. Pursuant to Education Code section 17307.5(b), the District shall not be held liable in any action filed against the District for any delays caused by compliance with the Stop Work Order

1.1.46 Subcontractor, as used herein, includes those having direct or indirect contracts with Contractor and ones who furnished labor, material or services for a special design according to Plans, Drawings, and Specifications of this Work.

1.1.47 Substantial Completion/ Substantially Complete(d) is not reached unless and until each of the following three (3) conditions have been met: (1) all contractually required items have been installed with the exception of only minor and Incomplete Punch List Items (See Article 9.9.1.1); (2) All Fire/Life Safety Systems have been installed, and are working and signed off on the DSA Form 152 Inspection Card, and all building systems including mechanical, electrical and plumbing are all functioning; and (3) the Project is fit for occupancy and its intended use. For the purposes of this Contract, any references to Completion Date means Substantial Completion Date.

1.1.48 Substitution is a change in product, material, equipment, or method of construction from those required by the Construction Documents proposed by the Contractor. For this Project, a Substitution is subject to the filing of a Construction Substitution Request Form at the time of bid and meeting the requirements of Article 3.10.

1.1.49 Supplementary Conditions/ Supplementary General Conditions/ Special Conditions are terms that are sometimes used interchangeably and refer to any additional requirements or changes to the General Conditions as noted.

1.1.50 Surety is the person, firm, or corporation that executes as a bid bond, Payment Bond or Performance Bond guarantor on the Contractor's Bid, Contractor's Performance on the Contract and Payment of the Contractor's Subcontractors, material suppliers, vendors and labor on the Project. The Surety is bound to the same extent as the Contractor is bound once a Default occurs. A default includes a Termination for Substantial Failure to Perform under Article 14, but also includes any breach of Contract and is subject to the requirements and responsibilities as set forth in the Performance Bond.

1.1.51 Work shall include all labor, materials, services and equipment necessary for the Contractor to fulfill all of its obligations pursuant to the Contract Documents. It shall include the initial obligation of any Contractor or Subcontractor who performs any portion of the Work, to visit the Site of the proposed Work (a continuing obligation after the commencement of the Work), to fully acquaint and familiarize itself with the conditions as they exist and the character of the operations to be carried out under the Contract Documents, and make such investigation as it may see fit so that it shall fully understand the facilities, physical conditions, and restrictions attending the Work under the Contract Documents. Each such Contractor and its Subcontractors shall also thoroughly examine and become familiar with the Drawings, Specifications, and associated Contract Documents and bid documents before preparing and submitting any bid.

1.1.52 Workers include laborers, workers, and mechanics.

1.2 EXECUTION, CORRELATION AND INTENT

1.2.1 Correlation and Intent

1.2.1.1 *Documents Complementary and Inclusive*. The Contract Documents are complementary and are intended to include all items required for the proper execution and completion of the Work. All Contract Documents form the Contractor's Contract with the District. Any item of Work mentioned in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be provided by Contractor as if shown or mentioned in both. The Contractor is bound to provide the Work complete and is under a legal duty to carefully study Plans and schedule operations well ahead of time and identify inconsistencies with the Plans and Specifications and call such inconsistencies to the attention of the Architect or Registered Engineer through the Inspector under Section 4-343(b) of Title 24.

1.2.1.2 *Work to be Complete*. Contractor has thoroughly studied the Contract Documents and understands that the District contracted with Contractor to provide a complete Project which means complete systems and buildings. The entire set of Contract Documents shows a complete Project and Contractor agrees that there are multiple disciplines putting together a set of Contract Documents. Thus, if portions of a system are shown on some Drawings and not others, this does not mean the Contractor is to only provide part of a system. For example, if an air conditioning unit is shown on the mechanical Drawings, the plumbing for the air conditioning is shown on another Drawing, and the electrical shown on the electrical Drawings, the Contractor is to provide a complete and working air conditioning system unless specifically noted otherwise on Scope of Work=. If there are any questions, Contractor is to submit a RFI on the prescribed RFI form before excluding any item from its bid, and a response will be provided and included as an Addendum. Failure to request clarification shall be conclusive that Contractor intended to provide a complete system or assembly. The only time when an item is supplied incomplete is if the system is shown specifically as incomplete since others will be completing the system. Work includes, but is not limited to materials, workmanship, and manufacture of fabrication of components for the Project.

1.2.1.3 *Coverage of the Drawings and Specifications*. The Drawings and Specifications generally describe the Work to be performed by Contractor. Generally, the Specifications describe Work which cannot be readily indicated on the Drawings and indicate types, qualities, and methods of installation of the various materials and equipment required for the Work. It is not intended to mention every item of Work in the Specifications, which can be adequately shown on the Drawings, or to show on the Drawings all items of Work described or required by the Specifications even if they are of such nature that they could have been shown. All materials or labor for Work, which is shown on either the Drawings or the Specifications (or is reasonably inferable therefrom as being necessary to complete the Work), shall be provided by the Contractor. The Contractor is responsible for the whole Project as contractually set forth as the Contract Documents. It is intended that the Work be of sound, quality construction, and the Contractor shall be responsible for the inclusion of adequate amounts to cover installation of all items indicated, described, or implied in the portion of the Work to be performed by them.

1.2.1.4 *Conflicts*. In the event there is a discrepancy between the various Contract Documents, it is intended that the more stringent, higher quality, and greater quantity of Work shall apply.

1.2.1.5 *Conformance with Laws*. Each and every provision of law required by law to be inserted in this Contract shall be deemed to be inserted herein, and the Contract shall be read and enforced as though it were included herein, even if through mistake or otherwise any such provision is not inserted, or is not correctly inserted. Any references to codes, statutes, regulations, governmental forms or documents including documents issued by DSA shall include any subsequent revisions or updates thereto.

Before commencing any portion of the Work, Contractor shall check and review the Drawings and Specifications for such portion for conformance and compliance with all laws, ordinances, codes, rules and regulations of all governmental authorities and public and municipal utilities affecting the construction and operation of the physical plant of the Project, all quasi-governmental and other regulations affecting the construction and operation of the physical plant of the Project, and other special requirements, if any, designated in the Contract Documents. Such checking shall include review of Title 24 of the California Code of Regulations, California Building Code, local utility, local water connection, local grading and all other applicable agencies. In the event Contractor observes any violation of any law, ordinance, code, rule or regulation, or inconsistency with the Contract Documents, Contractor shall, within five (5) days, notify the Inspector, Architect and District in writing of same and shall ensure that any such violation or inconsistency shall be corrected in the manner provided hereunder prior to the construction of that portion of the Project. (See Title 24 Section 4-343)

The Contractor shall bear all expenses of correcting Work done contrary to said laws, ordinances, rules, and regulations if the Contractor performed same (1) without first consulting the Architect for further instructions regarding said Work or (2) disregarded the Architect's instructions regarding said Work.

1.2.1.6 *Ambiguity and Inconsistency*. Before commencing any portion of the Work, Contractor shall carefully examine all Drawings and Specifications and other information given to Contractor as to materials and methods of construction and other Project requirements. Prior to commencing any portion of the Work, Contractor shall notify Architect and District in writing of any perceived or alleged error, inconsistency, conflict, ambiguity, or lack of detail or explanation in the Drawings and Specifications in the manner provided herein. If the Contractor or its Subcontractors, material or equipment suppliers, or any of their officers, agents, and employees performs, permits, or causes the performance of any Work under the Contract Documents, which it knows or should have known to be in error, inconsistent, or ambiguous, or not sufficiently detailed or explained, Contractor shall bear any and all costs arising therefrom including, without limitation, the cost of correction thereof without increase or adjustment to the Contract Price or the time for performance. Contractor shall maintain an adequate inspection system and perform personal observations and review work and pre-plan the project to ensure the Work performed under the Contract conforms to Contract requirements. Contractor shall maintain records of such review and observation to ensure strict compliance with the terms of the Contract.

1.2.1.7 *Typical Parts and Sections.* Whenever typical parts or sections of the Work are completely detailed on the Drawings, and other parts or sections which are of the same construction are shown in outline only, the complete or more detailed shall apply to the Work which is shown in outline.

1.2.1.8 *Dimensions.* Dimensions of Work shall not be determined by scale or rule. Figured dimensions shall be followed at all times. If figured dimensions are lacking on Drawings, Architect shall supply them on request. The Architect's decisions on matters relating to aesthetic effect will be final.

1.2.2 Addenda and Deferred Approvals

1.2.2.1 *Addenda* are the changes in Specifications, Drawings, Contract Documents, and Plans which have been authorized in writing by the District or Architect, and which alter, explain, or clarify the Contract Documents. Addenda shall govern over all other Contract Documents. Subsequent addenda issued shall govern over prior addenda unless otherwise specified in the addenda.

1.2.2.2 *Deferred Approvals*. Deferred Approvals are Submittals that are reviewed by the Architect (or Engineer of Record) and submitted to DSA for approval based on thorough detailing of manufacturer and Project specific design. See Article 3.9.1 and 3.9.3. The Deferred Approval item cannot be fully detailed on the originally approved Drawings or Specifications because of variations in product design and manufacture. Contract Documents which require Deferred Approval items are meant to be for illustration purposes only. Approval of Plans for such a portion of the Work may be deferred until the material suppliers and Subcontractors are selected. All Deferred Approvals are noted in the Plans and Specifications. Contractor is responsible for all Deferred Approval requirements set forth in the Contract Documents. Contractor is responsible to comply with all laws, building codes, Title 24 and regulations necessary to obtain all necessary approvals, including those required from the Division of the State Architect ("DSA") and the State Fire Marshall. Contractor shall not be granted an extension of time for failure to plan, schedule for and obtain necessary approvals. Contractor shall Schedule all Deferred Approval items in the Baseline Schedule and Schedule Updates under Article 3.9.6

1.2.3 Specification Interpretation

1.2.3.1 *Titles*. The Specifications are separated into titled sections for convenience only and not to dictate or determine the trade or craft involved.

1.2.3.2 *As Shown, Etc*. Where "as shown," "as indicated," "as detailed," or words of similar import are used, reference is made to the Drawings accompanying the Specifications unless otherwise stated. Where "as directed," "as required," "as permitted," "as authorized," "as accepted," "as selected," or words of similar import are used, the direction, requirement, permission, authorization, approval, acceptance, or selection by Architect is intended unless otherwise stated.

1.2.3.3 *General Conditions*. The General Conditions and Supplementary General Conditions are a part of the Contract Documents which further defines and refines the Contract entered between the Contractor and District.

1.2.3.4 *Abbreviations*. In the interest of brevity, the Specifications are written in an abbreviated form and may not include complete sentences. Omission of words or phrases such as "Contractor shall," "shall be," etc., are intentional. Nevertheless, the requirements of the Specifications are mandatory. Omitted words or phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the Drawings. In the interest of brevity, the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

1.2.3.5 *Plural*. Words in the singular shall include the plural whenever applicable or the context so indicates.

1.2.3.6 *Metric*. The Specifications may indicate metric units of measurement as a supplement to U.S. customary units. When indicated thus: 1" (25 mm), the U. S. customary unit is specific, and the metric unit is nonspecific. When not shown with parentheses, the unit is specific. The metric units correspond to the "International System of Units" (SI) and generally follow ASTM E 380, "Standard for Metric Practice."

1.2.3.7 *Standard Specifications*. Any reference to standard specifications of any society, institute, association, or governmental authority is a reference to the organization's standard specifications, which are in effect at the date of the Contractor's proposal unless directed otherwise. If applicable specifications are revised prior to completion of any part of the Work, the Contractor may, if acceptable to Architect, perform such Work in accordance with the revised specifications. The standard specifications, except as modified in the Specifications for the Project, shall have full force and effect as though printed in the Specifications. Architect will furnish, upon request, information as to how copies of the standard specifications referred to may be obtained.

1.2.4 Rules of Document Interpretation

1.2.4.1 In the event of conflict within the Drawings, the following rules shall apply:

a. General Notes, when identified as such, shall be incorporated into other portions of Drawings.

b. Schedules, when identified as such, are complementary with other notes and other portions of Drawings including those identified as General Notes.

c. Larger scale Drawings shall take precedence over smaller scale Drawings.

d. At no time shall the Contractor base construction on scaled Drawings.

1.2.4.2 Specifications shall govern as to materials, workmanship, and installation procedures.

1.2.4.3 If Contractor observes that Drawings and Specifications are in conflict, Contractor shall, prior to commencing work, notify the Architect in writing for the purposes of obtaining an interpretation of the Contact Documents.

1.2.4.4 In the case of conflict or inconsistencies, the order of precedence shall be as follows:

a. General Conditions take precedence over Drawings and Specifications.

b. Supplemental Conditions take precedence over General Conditions.

c. The Agreement Form shall take precedence over the Supplemental Conditions.

d. In the case of disagreement or conflict between or within Specifications, and Drawings, the more stringent, higher quality, and greater quantity of Work shall apply.

e. Addenda shall take precedence over Drawings and Specifications.

f. General Conditions shall take precedence over Addenda.

g. Drawings and Specifications take precedence over the Soils Report.

1.3 OWNERSHIP AND USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

The Drawings, Specifications, and other Contract Documents for the Project are the property of the District and/or Architect pursuant Contract requirements between the District and Architect. The Contractor may retain one Contract record set. Neither the Contractor nor any Subcontractor, or material or equipment supplier shall own or claim a Copyright in the Drawings, Specifications, and other documents prepared by the Architect. All copies except the Contractor's record set shall be returned or properly accounted for upon completion of the Work. The Drawings, Specifications, and other documents prepared by the Architect, and copies thereof furnished to the Contractor are not to be used by the Contractor or any Subcontractor, Sub-subcontractor, or material or equipment supplier on other projects or for additions to this Project outside the scope of the Work. The District and/or Architect hereby grants the Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers a limited license to use applicable portions of the Drawings, Specifications, and other documents prepared for the Project in the execution of their Work under the Contract Documents. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the District's property interest or other reserved right.

ARTICLE 2
DISTRICT

2.1 INFORMATION AND SERVICES REQUIRED OF THE DISTRICT

2.1.1 Site Survey

The District will furnish, at its expense, a legal description of the Site and a land survey showing the boundaries of the Site. Contractor shall be responsible for all surveys regarding location of construction, grading and site work.

2.1.2 Soils

When required by the scope of the Project, the District will furnish, at its expense, the services of geotechnical engineers or consultants when reasonably required and deemed necessary by the Architect or as required by local or state codes. Such services, with written reports and appropriate written professional recommendations, may include test boring, test pits, soil bearing values, percolation tests, air and water pollution tests, and ground corrosion and resistivity tests, including necessary operations for determining subsoil, air, and water conditions.

2.1.3 Soils Report Part of the Contract Documents: Contractor Reliance

A soils investigation report has been obtained from test holes at the Site, and such report is incorporated into this Contract and made available for the Contractor's use in preparing its bid and Work under this Contract. Where the Plans and Specifications are more specific and provide more significant structure, systems, reinforcing, thicknesses, or construction methods, the Drawings shall control over the soils report. The soils report is available at the Architect's office for review and it is Contractor's responsibility to ensure that Contractor has reviewed the soils investigation report. Any information obtained from such report or any other information given on Drawings as to subsurface soil condition or to elevations of existing grades or elevations of underlying rock is approximate only. If, during the course of Work under this Contract, Contractor encounters subsurface conditions which differ materially from those indicated in the soils report, then Contractor shall notify the District within five (5) calendar days of discovery of the condition, and changes to the Contract Price may be made in accordance with Article 7 entitled "Changes in the Work." Contractor agrees that no claim against District will be made by Contractor for damages and hereby waives any rights to damages in the event the Contractor fails to notify District within the five-day period mentioned above.

WARNING: DISTRICT DOES NOT WARRANT THE SOILS AT THE PROJECT SITE. CONTRACTOR HAS REVIEWED AND IS FAMILIAR WITH THE REQUIREMENTS OF THE SOILS INVESTIGATION REPORT. CONTRACTOR UNDERSTANDS THAT PLANS, DRAWINGS AND SPECIFICATIONS SUPERSEDE THE SOILS REPORT IF THERE ARE CONFLICTS. FURTHER, IN ADDITION TO THE INFORMATION IN THE SOILS REPORT, CONTRACTOR HAS CONDUCTED AN INDEPENDENT INVESTIGATION OF THE PROJECT SITE AND THE SOILS CONDITIONS OF THE SITE. DISTRICT DOES NOT WARRANT THE SOILS CONDITIONS OF THE SITE AND CONTRACTOR IS FULLY RESPONSIBLE TO ASCERTAIN SITE CONDITIONS FOR THE PURPOSES OF DETERMINING CONSTRUCTION MEANS AND METHODS PRIOR TO COMMENCING CONSTRUCTION.

2.1.4 Utilities

2.1.4.1 *Location of Point of Connection*. The locations shown for the point of connection are approximate. It shall be the responsibility of the Contractor to determine the exact location of all service connections.

2.1.4.2 *Regional Notification Center.* Contractor, except in an emergency, shall contact the appropriate regional notification center at least two (2) business days prior to commencing any excavation if the excavation will be conducted in an area or in a private easement which is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. See Government Code section 4216.3. No excavation shall be commenced and carried out by the Contractor unless such an inquiry identification number has been assigned to the Contractor or any Subcontractor of the Contractor and the District has been given the identification number by the Contractor. Any damages arising from failure to make appropriate regional notification shall be at the sole risk of Contractor. Contractor shall solely be responsible for any fines, penalties or damages for violation of this Article and Government Code section 4216.6 or 4216.7. Any delays caused by failure to make appropriate regional notification shall be at the sole risk of Contractor and shall not be considered for extension of time pursuant to Article 8.4.

2.1.4.3 *Utilities - Removal and Restoration.* The District has endeavored to determine the existence of utilities at the Site of the Work from the records of the District of known utilities in the vicinity of the Work. The positions of these utilities as derived from such records are shown in the Contract Documents. Thus, the locations of the main or trunklines located on the Drawings are approximate locations and not exact.

No excavations were made to verify the locations shown for underground utilities. Other than the main or trunkline, which the District has endeavored to locate on the Plans, service connections or laterals to these utilities may not be shown on the Plans. It shall be the responsibility of the Contractor to determine the exact location of all service connections. The Contractor shall make its own investigations, including exploratory excavations, to determine the locations and type of service connections, prior to commencing work which could result in damage to such utilities. The Contractor shall immediately notify the District's representative as to any utility main or trunkline discovered by Contractor in a different position than provided by the Regional Notification Center. With respect to main or trunklines, Contractor is to immediately notify District if the location is substantially different than as shown in the Contract Documents.

Contractor shall coordinate its Work with all utilities, including, but not limited to electricity, water, gas and telephone and meet with said utilities prior to the start of any work. Contractor shall show timing of all utility coordination activities under the Scheduling requirements of Article 8.

2.1.4.4 *Other Utilities.* In case it should be necessary to remove, relocate, or temporarily maintain a utility because of interference with the Work, the work on the utility shall be performed and paid for as follows:

When it is necessary to remove, relocate or temporarily maintain a service connection, the cost of which is not required to be borne by the owner of the service connection, the Contractor shall bear all expenses incidental to the work on the service connection. The work on the service connection shall be done in a manner satisfactory to the owner thereof; it being understood that the owner of the service connection has the option of doing such work with his own forces or permitting the work to be done by the Contractor.

When it is necessary to remove, relocate, or temporarily maintain a utility which is in the position shown on the Plans, the cost of which is not required to be borne by the owner thereof, the Contractor shall bear all expenses incidental to the work on the utility. The work on the utility shall be done in a manner satisfactory to the owner thereof; it being understood that the owner of the utility has the option of doing such work with his own forces or permitting the work to be done by the Contractor.

When it is necessary to remove, relocate, or temporarily maintain a utility which is not shown on the Plans or is in a position different from that shown on the Plans and were it in the position shown on the Plans would not need to be removed, relocated, or temporarily maintained, and the cost of which is not required to be borne by the owner thereof, the District will make arrangements with the owner of the utility for such work to be done at no cost to the Contractor, or will require the Contractor to do such work in accordance with Article 7 or will make changes in the alignment and grade of the Work to obviate the necessity to remove, relocate, or temporarily maintain the utility. Changes in alignment and grade will be ordered in accordance with Article 7 herein.

No representations are made that the obligations to move or temporarily maintain any utility and to pay the cost thereof is or is not required to be borne by the owner of such utility, and it shall be the responsibility of the Contractor to investigate to find out whether said cost is required to be borne by the owner of the utility.

The right is reserved to governmental agencies and to owners of utilities to enter at any time upon any street, alley, right-of-way, or easement for the purpose of making changes in their property made necessary by the Work and for the purpose of maintaining and making repairs to their property.

2.1.5 Existing Utility Lines; Removal, Relocation

2.1.5.1 *Main or Trunkline Facilities*. If the Contractor while performing the Contract discovers utility facilities not identified in the Contract Documents, Contractor shall notify the District and utility in writing prior to commencing work.

The owner of the public utility shall have the sole discretion to perform repairs or relocation work or permit the Contractor to do such repairs or relocation work at a reasonable price.

The Contractor shall exercise reasonable care and shall be compensated by the District for the actual verified field costs of locating, and removing, relocating, protecting or temporarily maintaining such main or trunkline utility facilities located in a substantially different location than in the Plans and Specifications, and for equipment in use on the project necessarily idled during such work. This Work shall be performed in accordance with Article 7 of these General Conditions.

2.1.5.2 *Assessment*. Nothing in these subparagraphs shall be deemed to require the District to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the Site can be inferred from the presence of other visible facilities, such as buildings, or meter junction boxes on or adjacent to the Site and could be inferred from the Main or Trunkline shown on the Drawings.

2.1.5.3 *Notification*. If the Contractor, while performing Work under this Contract, discovers utility facilities not identified by the District in the Contract Documents. Contractor shall, within five (5) days, notify the District and the utility in writing. If Contractor fails to notify the District within forty eight hours after discovery of any utility facilities not identified by District in the

Contract Documents, Contractor waives all rights to be compensated for any extra Work or damages resulting from such discovered utilities.

2.1.6 Easements

District shall secure and pay for easements for permanent structures or permanent changes in existing facilities, if any, unless otherwise specified in the Contract Documents.

2.2 DISTRICT'S RIGHT TO CARRY OUT THE WORK DUE TO PARTIAL DEFAULT IN A SPECIFIC SEGREGATED AREA OF WORK (48 HOUR NOTICE TO CURE AND CORRECT)

If the Contractor Defaults or neglects to carry out the Work in accordance with the Contract Documents, the District may provide forty-eight (48) hour written notice to cure (a shorter period of time in the case of Emergency or a critical path delay as defined in Article 2.2.1) Contractor's Partial Default in a specific segregated area of work. The District's right to issue a Partial Default of the Contractor's Work and take over that segregated area of Work includes, but is not limited to:

1. Failure to supply adequate workers on the entire Project or any part thereof;
2. Failure to supply a sufficient quantity of materials;
3. Failure to perform any provision of this Contract;
4. Failure to comply with safety requirements, or due to Contractor is creation of an unsafe condition;
5. Cases of bona fide emergency;
6. Failure to order materials in a timely manner;
7. Failure to prepare Deferred Approval items or Shop Drawings in a timely manner;
8. Failure to comply with Contractor's Baseline or Update Schedule, meet critical Milestones which would result in a delay to the critical path, or delay the Contract Time;
9. Failure to comply with the Subletting and Subcontracting Fair Practices, Public Contract Code section 4100, et seq.
10. Failure to meet the requirements of the Americans with Disabilities Act;
11. Failure to complete Punch List work;
12. Failure to proceed on an Immediate Change Directive
13. Failure to correct a Notice of Deviation

If during the forty eight (48) hour period, the Contractor fails to Cure and correct the deficiency noted in the 48 hour notice of Partial Default with diligence and promptness, the District may correct such deficiencies without prejudice to other remedies the District may have, including a Termination for Cause as set forth in Article 14. If there are inadequate funds remaining the Project balance or in the Retention Escrow to address at least 150% of the costs set forth in the Article 2.2 notice, the District may copy the

Surety on the written notice of Partial Default. If a notice to the Surety is provided, except in the cases of emergency or critical path delay, the Surety has the option to take over and complete the Work described in the written notice if Surety personally delivers notice to District that it intends to perform such work. In the case where written notice has been provided, the District shall allow Surety seven (7) days to perform the Work.

2.2.1 Service of Notice of Partial Default with Right to Cure

A written notice of Partial Default and right to cure under Article 2.2 ("Article 2.2 Notice" or "Notice of Partial Default") shall be served by e-mail (with a copy provided by regular mail) to the e-mail address provided on the Bid submitted and copied to the Project Superintendent.

2.2.2 Shortened Time for Partial Default in the Case of Emergencies.

In an Emergency situation, the District may correct any of the deficiencies described in Article 2.2 without prejudice to other remedies by providing service of written notice of Emergency requiring a shortened time for Partial Default specifying the time given to cure, if any.

2.2.3 Shortened Time for Partial Default in the Case of Critical Path Delay

In the case of critical path delay, the District may correct any of the deficiencies described in Article 2.2 without prejudice to other remedies providing service of written notice of critical path delay to the Contractor with a specific description of the critical path delay items noting the line item or area of Work that is on the critical path and prescribe the length of shortened time to cure, if any.

2.2.4 Written Notice of Partial Default to be Deducted by Deductive Change Order

The District shall have the right to determine the reasonable value of the Article 2.2 Partial Default Work, or if there is an actual value for the Work, shall use that value and issue a Deductive Change Orders under Article 7.7.4.

ARTICLE 3
THE CONTRACTOR

3.1 SUPERVISION AND CONSTRUCTION PROCEDURES

3.1.1 Contractor

The Contractor shall continually supervise and direct the Work using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, procedures; and shall coordinate all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. The Contractor shall not perform the Work without utilizing the Contract Documents or, where required, approved Submittals, Shop Drawings, or samples for any such portion of the Work. If any of the Work is performed by contractors retained directly by the District, Contractor shall be responsible for the coordination and sequencing of the work of those other contractors so as to avoid any impact on the Project Schedule pursuant to the requirements of Article 6 and Article 8. Specific duties of the Contractor shall include those set out in Section 43 of Title 21 of the California Code of Regulations and Section 4-343 of Title 24 of the California Code of Regulations. These duties include, but are not limited to the following:

3.1.1.1 *Responsibilities*. It is the duty of the Contractor to complete the Work covered by his or her Contract in accordance with the approved Plans and Specifications. The Contractor in no way is relieved of any responsibility by the activities of the Architect, Engineer, Inspector or DSA in the performance of their duties.

3.1.1.2 Performance of the Work. The Contractor shall carefully study the approved Plans and Specifications and shall plan its schedule of operations well ahead of time. If at any time it is discovered that work is being done which is not in accordance with the approved Plans and Specifications, the Contractor shall correct the Work immediately.

3.1.2 Contractor Responsibility to Study the Plans and Specifications

All inconsistencies or timing or sequences which appear to be in error in the Plans and Specifications shall promptly be called to the attention of the Architect or, Engineer, for interpretation or correction. Local conditions which may affect the structure shall be brought to the Architect's attention at once. In no case, shall the instruction of the Architect be construed to cause work to be done which is not in conformity with the approved Plans, Specifications, change orders, construction change documents, and as required by law. (See Title 24, Section 4-343)

3.1.3 All Work Under the Direction of Inspector

Pursuant to Title 24 requirements, the Contractor shall not carry on Work except with the knowledge of the Inspector. (See Title 24 generally)

3.1.4 Contractor to Establish Timing and Protocol with Inspector

Contractor shall establish a protocol for requesting inspection with Inspector so as to not delay the Work and provide adequate time for the Inspector to perform inspection. If such a protocol is not established ahead of time, Inspector may utilize the time criteria set by Title 24 of 48 hours in advance of submitting form DSA 156 for each new area. DSA requirements under PR 13-01 specifically gives the Special Inspector fourteen (14) days to post to the DSA website. Contractor is responsible for delays and for failure to plan.

For some Projects, there may be a need to incrementally install certain assemblies. It is up to Contractor to identify areas and assemblies that may be constructed incrementally. Contractor must identify and establish incremental areas of construction and establish protocols with Inspector for DSA 152 approvals so they may be presented to DSA. See PR-13 item 1.17 for further discussion.

3.1.5 Verified Reports

The Contractor shall make and submit to the office from time to time, verified reports as required in Title 24 Section 4-366. As part of the Close-Out of the Project (see Article 9.9), Contractor shall be required to execute a Form 6-C as required under Title 24 Sections 4-343.

Contractor shall fully comply with any and all reporting requirements of Education Code sections 17315, et seq., in the manner prescribed by Title 24, as applicable.

3.1.6 Contractor Responsibility

The Contractor shall be responsible to the District for acts and omissions of the Contractor's employees, Subcontractors, material and equipment suppliers, and their agents, employees, invitees, and other persons performing portions of the Work under direct or indirect contract with the Contractor or any of its Subcontractors.

3.1.7 Obligations not Changed by Architect's Actions

The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract or by tests, inspections, or approvals required or performed by persons other than the Contractor.

3.1.8 Acceptance/Approval of Work

The Contractor shall be responsible to determine when any completed portions of the Work already performed under this Contract or provided pursuant to Article 6 are suitable to receive subsequent Work thereon.

3.2 SUPERVISION

3.2.1 Full Time Supervision

Unless personally present on the Project site where the Work is being performed, the Contractor shall keep on the Work at all times during its progress a competent, English speaking construction Superintendent satisfactory to the District. The Superintendent shall be present on a full-time basis, shall be dedicated exclusively to the Project and shall not share superintendency duties with another project or job. The Superintendent shall not be replaced except with written consent of the District. The Superintendent shall represent the Contractor in its absence and shall be fully authorized to receive and fulfill any instruction from the Architect, the Inspector, the District or any other District Representative (including CM in the cases where the District has a CM representative). All Requests for Information shall be originated by the Superintendent and responses thereto shall be given to the Superintendent. No Work shall begin on any day by any Subcontractor or other person on the Project site until the Superintendent has arrived, or shall any Work continue during the day after the Superintendent has departed from the Project site. The Superintendent shall have authority to bind Contractor through the Superintendent's acts. The Superintendent shall represent the Contractor, and communications given to the Superintendent shall be

binding on the Contractor. Before commencing the Work, Contractor shall give written notice to District (and CM representative) and Architect of the name and a Statement of Qualifications of such superintendent. Superintendent shall not be changed except with written consent of District, unless a superintendent proves to be unsatisfactory to Contractor and ceases to be in its employ, in which case, Contractor shall notify District and Architect in writing. Contractor shall provide a replacement superintendent approved by the District prior to performing additional work.

3.2.2 Staff

Notwithstanding other requirements of the Contract Documents, the Contractor and each Subcontractor shall: (1) furnish a competent and adequate staff as necessary for the proper administration, coordination, supervision, and superintendence of its portion of the Work; (2) organize the procurement of all materials and equipment so that the materials and equipment will be available at the time they are needed for the Work; and (3) keep an adequate force of skilled and fit workers on the job to complete the Work in accordance with all requirements of the Contract Documents.

3.2.3 Right to Remove

District shall have the right, but not the obligation, to require the removal from the Project of any superintendent, staff member, agent, or employee of any Contractor, Subcontractor, material or equipment supplier.

3.3 LABOR AND MATERIALS

3.3.1 Contractor to Provide

Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, material, equipment, tools, construction equipment and machinery, water, heat, air conditioning, utilities, transportation, and other facilities, services and permits necessary for proper execution and completion of the Work whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.3.2 Quality

Unless otherwise specified, all materials and equipment to be permanently installed in the Project shall be new and shall be of the highest quality or as specifically stated in the Contract Documents. The Contractor shall, if requested, furnish satisfactory evidence as to kind and quality of all materials and equipment within ten (10) days of a written request by the District, including furnishing the District with bona fide copies of invoices for materials or services provided on the Project. All labor shall be performed by workers skilled in their respective trades, and shall be of the same or higher quality as with the standards of other school construction.

3.3.3 Replacement

Any work, materials, or equipment, which do not conform to these requirements or the standards set forth in the Contract Documents, may be disapproved by the District, in which case, they shall be removed and replaced by the Contractor at no additional cost or extension of time to the District.

3.3.4 Discipline

The Contractor shall enforce strict discipline and good order among the Contractor's and Subcontractor's employees, and other persons carrying out the Contract. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them. As used in this subsection, "unfit" includes any person who the District concludes is improperly skilled for the task assigned to that person, who fails to comply with the requirements of this article, or who creates safety hazards which jeopardize other persons and/or property.

3.3.5 Fingerprinting (Applicable at the time Project is Occupied and on all Projects where Workers will come in Contact with Pupils, such as Modernization Projects)

If applicable, Contractor shall comply with the applicable provisions of Education Code section 45125.1 in a method as determined by the District. Pursuant to Education Code section 45125.1, Contractor shall either conduct criminal background checks of all employees of Contractor assigned to the Project site, and shall certify that no employees who have been convicted of serious or violent felonies, as specified in Education Code section 45125.1, will have contact with pupils, by utilizing the Certification Regarding Background Checks and the corresponding Attachment "A" as found in the Contract Documents or shall be separated by a physical barrier from students.

If it is determined that Contractor must provide certification of employees, as part of such certification, Contractor must provide the District with a list of all employees providing services pursuant to this Agreement, and designate which sites such employees will be assigned. In performing the services set forth in this Agreement, Contractor shall not utilize any employees who are not included on the above-referenced list.

At District's sole discretion, District may make a finding, as authorized under Education Code section 45125.1, that Contractor's employees will have only "limited contact" with pupils. Contractor's failure to comply with this law shall be considered a material breach of this Agreement upon where this Agreement may be terminated, at District's sole discretion, without any further compensation to Contractor.

In the case of new construction Projects where there are no students, if the Project Schedule provides for Beneficial Occupancy or portions of the Project or if the Project should be delayed, then Contractor, at no additional costs, shall meet the requirements of either fingerprinting or providing a physical barrier as required by the District.

3.3.6 Noise, Drugs, Tobacco, and Alcohol

Contractor shall take all steps necessary to ensure that employees of Contractor's employees, or any of its Subcontractors' or Vendors' employees do not use, consume, or work under the influence of any alcohol, tobacco or illegal drugs while on the Project. Contractor shall further prevent any of its employees or its Subcontractor employees from playing any recorded music devices or radios or wearing any radio headphone devices for entertainment while working on the Project. Likewise, Contractor shall prevent its employees or Subcontractor's employees from bringing any animal onto the Project. Contractors shall not violate any written school policies.

3.3.7 Delivery of Material

Contractor shall place orders for materials or equipment so that the Work may be completed in accordance with the Construction schedule for the Work as set forth in Article 8 of this Agreement. Contractor shall, upon demand from the Architect, furnish to the Architect documentary evidence including, but not limited to purchase orders, invoices, bills of materials, work orders and bills of

lading, showing that orders have been placed. Contractor shall have a system to receive materials and to ensure that the proper materials are being delivered, including in the case of critical materials to the Project, checking the delivery against Shop Drawings and ensuring that the materials meet the requirements of not only the Plans and Specifications, but also the approved Shop Drawings and Submittals and in conformance with Contractor's plan for delivery of materials (including but not limited to Contractor's representations in the Schedules for the Project and Contractor's equipment and materials schedule under Article 3.7.2.2). Contractor shall be responsible for all costs of accepting non-conforming materials delivered to the Project given Contractor's responsibilities and system for acceptance of deliveries. Contractor shall notify Inspector and District Representative (including CM) as early as possible, in writing, of the delivery of materials for the Project. The deliveries shall include documentation identifying the shipment sufficiently so that the Inspector, Architect or District Representative (including CM) may review the materials that are received. Under no circumstances shall materials be delivered to the Project site that are meant for another Project.

3.3.8 Liens and Other Security Interests of Subcontractors and Material Suppliers

No material, supplies, or equipment for the Work shall be purchased subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part thereof is retained by seller or supplier. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon completion of all Work to deliver premises, together with all improvements and appurtenances constructed or placed thereon by it, to District free from any claims, security interests, liens, or charges. Contractor further agrees that neither it nor any person, firm, or corporation furnishing any materials or labor for any Work covered by this Contract shall have any right to place a lien upon the premises or any improvement or appurtenance thereof, except that Contractor may install metering devices or other equipment of a utility company or political subdivision, title to which is commonly retained by the utility company or political subdivision. In event of installation of any such metering device or equipment, Contractor shall advise District as to its owner within five (5) days of such installation in writing, prior to making the installation.

Contractor agrees to indemnify, defend and hold the District harmless from any liens, stop notices, or assertion of security interests, including judgments and levies. If after written notice Contractor fails to address the lien, stop notice, or other security interest, the District may proceed to address the lien, stop notice or claim and seek reimbursement from Contractor.

3.3.9 Title to Materials

The title to new materials or equipment for the Work of this Contract shall remain with Contractor until incorporated in the Work of this Contract until final acceptance of the Project; no part of said materials shall be removed from its place of storage, and Contractor shall keep an accurate inventory of all said materials and equipment in a manner satisfactory to the District or its authorized representative. Responsibility for materials remains with Contractor and Contractor shall replace materials in case of loss. District similarly may pay for materials stored off site, but Contractor shall remain responsible for the materials that are stored off site.

3.3.10 Assemblies

For all material and equipment specified or indicated in the Drawings, the Contractor shall provide all labor, materials, equipment, and services necessary, (including engineering as specifically required with Shop Drawings or Deferred Approvals) for complete assemblies and complete working systems. Incidental items not indicated on the Drawings, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described, or be necessary in good practice

to provide a complete assembly or system, shall be furnished as though itemized in the Contract Documents in every detail. In all instances, material and equipment shall be installed in strict accordance with each manufacturer's most recent published recommendations and Specifications.

3.3.11 Noise Control

The Contractor shall be responsible for the installation of noise reducing devices on construction equipment. Contractor shall comply with the requirements of the city and county having jurisdiction with regard to noise ordinances governing construction sites and activities. Construction equipment noise is subject to the control of the Environmental Protection Agency's Noise Control Program (Part 204 of Title 40, Code of Federal Regulations). If school is in session at any point during the progress of the Project, and, in the District's reasonable discretion, the noise from such Work disrupts or disturbs the students or faculty or the normal operation of the school, at the District's request, the Contractor shall schedule the performance of all such Work around normal school hours or make other arrangements so that the Work does not cause such disruption or disturbance. There are specific periods of testing at operational schools and it is critical that Contractor control noise during periods of testing. In no event shall Contractor have a right to receive additional compensation or an extension to the Contract time as a result of any such rescheduling or the making of such arrangements. These controls shall be implemented during site preparation and construction. All noise related issues, including school operations, and noise during testing should be detailed in the Schedule provided pursuant to Article 8.

3.3.12 Expectations of Contractor's Employee's

The project is located on School District property; therefore, contractors will be on location where students are present. Contractors must wear identifying uniforms, id badges and all applicable safety gear at all times while at the work site. All vehicles must be marked with the company name. All persons are strictly prohibited from looking at, speaking to, fraternizing with or any other method of communicating with students and school staff other than the Principal or designee. Alcohol, tobacco, drugs, weapons, violence, gang affiliation are not allowed on District property and any clothing, paraphernalia, markings, tattoos or other symbols or markings designating such items or affiliations are not permitted. The District has a no tolerance policy on the above requirements. Should any individual violate this policy, they will be immediately removed from the project and will not be permitted back on campus. Furthermore, the contractor may be removed from the job depending on the severity of the incident. The District will be the sole judge as to the severity of the incident and the removal of the contractor and/or person(s) affiliated.

3.4 WARRANTY

The Contractor warrants to the District and Architect that material and equipment furnished under the Contract will be of the highest quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. Contractor's warranty to District includes, but is not limited to, the following representations:

3.4.1 In addition to any other warranties provided elsewhere, Contractor shall, and hereby does, warrant all Work after the date of Notice of Completion of Work by District and shall repair or replace any or all such Work, together with any other Work, which may be displaced in so doing that may prove defective in workmanship or materials within a one (1) year period from date of Final Completion which shall be no later than the final date of Punch List as noted at Article 9.11) without expense whatsoever to

District, ordinary wear and tear, unusual abuse or neglect excepted. District will give notice of observed defects with reasonable promptness. Contractor shall notify District upon completion of repairs.

3.4.2 In the event of failure of Contractor to comply with above mentioned conditions within one week after being notified in writing, District is hereby authorized to proceed to have defects repaired and made good at expense of Contractor who hereby agrees to pay costs and charges therefore immediately on demand.

3.4.3 If, in the opinion of the District, defective Work creates a dangerous condition or requires immediate correction or attention to prevent further loss to the District, the District will attempt to give the notice required by this Article. If the Contractor cannot be contacted or does not comply with the District's requirements for correction within a reasonable time as determined by the District, the District may, notwithstanding the provisions of this article, proceed to make such correction or attention which shall be charged against Contractor. Such action by the District will not relieve the Contractor of the guarantee provided in this Article or elsewhere in this Contract.

3.4.4 This Article does not in any way limit the guarantee on any items for which a longer warranty is specified or on any items for which a manufacturer gives a guarantee for a longer period. Contractor shall furnish District all appropriate guarantee or warranty certificates upon completion of the project.

3.5 TAXES

Contractor will pay all applicable Federal, State, and local taxes on all materials, labor, or services furnished by it, and all taxes arising out of its operations under the Contract Documents. District is exempt from Federal Excise Tax, and a Certificate of Exemption shall be provided upon request.

3.6 PERMITS, FEES AND NOTICES

3.6.1 Payment

The Contractor shall secure and pay for all permits and governmental fees, licenses, and inspections necessary for proper execution and completion of the Work which are necessary after execution of the Contract and are legally required by any authority having jurisdiction over the Project, except those required by the Division of the State Architect (DSA). District shall be responsible for all testing and inspection as required by the DSA on-site or within the distance limitations set forth in Article 13.5.2, unless a different mileage range is specified in the Supplemental Conditions.

3.6.1.1 *DSA Fees*. DSA policy is to charge CCD review fees for processing and approval of changes in the Plans and Specifications through the Construction Change Document process. Contractor is specifically directed to the current DSA IR A-30 which provides fee structure and charges that will be incurred for proceeding with respect to the CCD process, a process that must be followed for each change in the Plans and Specifications.

3.6.2 Compliance

The Contractor shall comply with and give notices required by any law, ordinance, rule, regulation, and lawful order of public authorities bearing on performance of the Work. Specifically, the Division of State Architect provides State oversight of the Project and enforcement of Title 24 rules and regulations. Contractor is directed to the DSA website. There will be local governmental oversight from City, County or both. Finally, Regional Water Quality Control Board, State Fire Marshall, local fire

marshal, Department of Industrial Relations, Department of Labor Standards Enforcement, and Air Quality Management District (Local and State) are some of the agencies that provide oversight and may require specific permits, fees, or provide oversight over the Project. Contractor represents understanding and specialized knowledge of the rules governing school districts and Contractor shall maintain compliance over the applicable rules and will file all documents required in order to ensure compliance with State, local, and other rules that apply to the Project.

3.6.3 Responsibility

The Contractor shall perform all Work in conformance with every law, statute, ordinance, building code, rule or regulation. The Contractor shall assume full responsibility for such Work and shall bear the attributable cost of correction or project delay.

Pursuant to Title 24 Section 4-343(b):

> "Contractor shall carefully study the approved Plans and Specifications and shall plan a schedule of operations well ahead of time.... All inconsistencies or items which appear to be in error in the Plans and Specifications shall be promptly called to the attention of the architect or registered engineer, through the inspector, for interpretation or correction."

To help Contractor plan its operations, Contractor is directed to study the current version of the DSA 152 Inspection Card Manual identifying the exact steps the Inspector is to follow in the review and sign off process for the DSA 152. The DSA 152 Inspection Card Manual provides specific detail as to the order of operations, review items and compliance items beyond the Specifications and Plans which are reviewed for DSA compliance. The most current version of this manual is located on DSA's website.

Contractor is also specifically directed to the time periods for posting of Special Inspection Reports and Inspector Notifications under DSA PR 13-01 since the timing of Inspection is not a Governmental Entity related delay.

3.7 SUBMITTALS REQUIRED AT THE COMMENCEMENT OF THE PROJECT

3.7.1 Requirements Within Ten (10) Calendar Days

Within ten (10) calendar days after Notice to Proceed, Contract shall submit the following:

3.7.1.1 Detailed Schedule of Values (See Article 9.2)

3.7.1.2 Submittal Listing and Schedule for Submittals

3.7.1.3 Critical Path Baseline Schedule (See Article 8)

3.7.2 Requirements Within Thirty-Five (35) Calendar Days

Within thirty-five (35) calendar days after Notice to Proceed, Contractor shall submit the following:

3.7.2.1 *All Submittals for the Project* except those specifically agreed upon by District and Architect, in writing, and shall be specifically incorporated into the Submittal section of the Schedule so as to not delay the Work. The agreement to allow a later Submittal does not mean that Article 3.3.7 is waived. Contractor shall order materials and ensure prices are honored and secured for the Project.

a. Structural Steel may be included as a later Submittal than 35 days if Structural Steel is a significant portion of the Work, at least one or some of the Project is a structural steel structural system, or as specifically agreed upon by the Architect or District.

b. It is specifically agreed that submissions of structural steel Submittals shall not be piecemeal (unless some portion is requested separately by the District or Architect), shall provide complete designs, shall be stamped by the structural steel Subcontractor, Contractor, and structural steel Subcontractor's structural engineer at time of submission and as further addressed in Article 3.9.

c. In no case shall the submission of structural steel Drawings delay the critical path for the schedule. If a Milestone is provided for submission of complete structural steel Shop Drawings then the date shall be no later than as set forth in the Milestone

3.7.2.2 *Exceptions to Submittal Within Thirty-Five (35) Days by Written Agreement*. A written request detailing the specific reasons for a submission later than 35 days due to complexity of design or non-critical path status of the Submittal shall be submitted at the time the Baseline Schedule is submitted. The Baseline Schedule shall not include a delayed Submittal until written agreement is provided. In addition to the request for providing a Submittal after the thirty-five (35) day period, a copy of the Contract with the Subcontractor who shall be performing the Submittal, a written statement from the Subcontractor verifying that work has commenced on the Submittal and providing Subcontractor's own schedule of Milestones and completion dates, and a corresponding Submittal designation in the Schedule as required under Article 8. Approval of a delayed Submittal shall not result in any increase in the Contract Price or result in an extension of time for the completion of the Project.

3.7.2.3 *Piecemeal Submissions of Submittals*. Piecemeal Submittals mean providing portions of Shop Drawings or Submittals as they are being completed. The submission of piecemeal Submittals results in the appearance of a submission when there is inadequate information for the Architect or Engineer to adequately review a submission. Piecemeal differs from submission of complete buildings or phases of buildings or complete assemblies. The Architect may agree to allow submission of single buildings or areas as long as the Submittals are complete. .

3.8 DOCUMENTS, SAMPLES, AND COMPUTER AT THE SITE

The Contractor shall maintain at the Site for the District one current copy of the California Building Code, Titles 19 and 24 of the California Code of Regulations, any other document required by DSA, and one record copy of the Drawings, Specifications, Addenda, Change Orders, and other Modifications, in good order and marked currently to record changes and selections made during construction. In addition, the Contractor shall maintain at the Site approved Shop Drawings, Product Data, Samples, and similar required Submittals. These documents shall be available to the Architect and shall be delivered to the Architect for delivery to the District upon completion of the Work.

Contractor shall have an operational computer with internet access so Contractor can review and post documents as required for the Project, including but not limited to the filing and posting of DSA required documents for the Project.

Contractor shall be prepared to review documents posted to the DSA Project website.

3.9 SUBMITTALS INCLUDING SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

3.9.1 Definitions

3.9.1.1 *Deferred Approvals*. Approval of certain aspects of the construction may be deferred until the construction Contract has been awarded. To facilitate the design process, DSA grants Deferred Approval to the design and detailing of certain elements of the Project at the request of the Architect or Engineer of Record. Design elements that may be deferred may include, but are not limited to access floors, bleachers, elevator guide rails and related elevator systems, exterior wall systems - precast concrete, glass fiber reinforced concrete, etc., skylights, window wall systems, storefronts, stage rigging, and other systems as noted in the Contract Documents. (Also see Article 1.2.2 and 3.9.3)

3.9.1.2 *Shop Drawings.* The term "Shop Drawings" as used herein means Drawings, diagrams, equipment or product schedules, and other data, which are prepared by Contractor, Subcontractors, manufacturers, suppliers, or distributors illustrating some portion of the Work, and includes: illustrations; fabrication, erection, layout and setting Drawings; manufacturer's standard Drawings; schedules; descriptive literature, instructions, catalogs, and brochures; performance and test data including charts; wiring and control diagrams; and all other Drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and methods of construction as may be required to show that the materials, equipment, or systems and their position conform to the requirements of the Contract Documents.

3.9.1.3 *Manufactured* applies to standard units usually mass-produced, and "Fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements. Shop Drawings shall: establish the actual detail of all manufactured or Fabricated items, indicate proper relation to adjoining work, amplify design details of mechanical and electrical systems and equipment in proper relation to physical spaces in the structure, and incorporate minor changes of design or construction to suit actual conditions.

3.9.1.4 *Submittals* is a term used interchangeably and sometimes refers to Shop Drawings, Product Data, and samples since all Subcontractor submissions are tracked in a Submittal Log and may include any of the noted items. However, generally, a Submittal is a manufacturer's product information and Product Data including description, characteristics, size, physical characteristics, and requirements to prepare the jobsite for receiving of the particular manufactured item.

3.9.1.5 *Samples*. The term "samples" as used herein are physical examples furnished by Contractor to illustrate materials, equipment, or quality and includes natural materials, Fabricated items, equipment, devices, appliances, or parts thereof as called for in the Specifications, and any other samples as may be required by the Architect to determine whether the kind, quality, construction, finish, color, and other characteristics of the materials, etc., proposed by the Contractor conform to the required characteristics of the various parts of the Work. All Work shall be in accordance with the approved samples.

3.9.2 Shop Drawings.

3.9.2.1 *When Shop Drawings Are Required.* Shop Drawings are required for prefabricated components and for installation and coordination of these prefabricated components into the Project. In addition, Shop Drawings, are prepared to address the actual size and installation of components from various Subcontractors and provides an opportunity for the Contractor to coordinate and address conflicts between the subcontracting trades. In some cases, each Subcontractor or trade will provide Shop Drawings in a BIM format or other format as agreed by District.

3.9.2.2 *Purpose for Shop Drawings.* Shop Drawings are the Contractor's manufacturer, Subcontractor, supplier, vendor or the Contractor's detailed drawings showing particularized method for assembly, specifics to a manufacturer, manufacturer component installation requirements, specifics as to a manufactured item, alterations to a manufactured, a custom created item, or drawn version of more detailed information expanding on the Architect's design shown in the Contact Documents. The Shop Drawings address the appearance, performance, size, weight, characteristics and prescriptive descriptions associated with the Contractor or Contractor's Subcontractor's plan for installation or assembly based on the design in the Specifications and Contract Documents. The Shop Drawing often is more detailed than the information shown in the Contract Documents to give the Architect and Engineer the opportunity to review the fabricator's version of the product (along with particulars specific to that particular product), prior to fabrication. References to the Contract Documents, Construction Documents, Drawings, Plans, and Specifications assist the Architect and Engineer in their review of the Shop Drawings. Attachment of manufacturer's material Specifications, "catalog cut sheets," and other manufacturer's information may be provided to accompany Shop Drawings. Because Shop Drawings facilitate the Architect's and Engineer's approval of the system, they should be as clear and complete as possible so they may be reviewed by Architect or Engineer for the Project.

3.9.2.3 *Shop Drawing Requirements.* The Contractor shall obtain and submit with Shop Drawings all seismic and other calculations and all Product Data from equipment manufacturers. "Product Data" as used herein are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate a material, product, or system for some portion of the Work.

3.9.2.4 *Not a Reproduction of Architectural or Engineering Drawings.* The Shop Drawings are not a reproduction of the architectural or engineering Drawings. Instead, they must show more detail than the Construction Documents and details the fabrication and/or installation of the items to the manufacturer's production crew or Contractor's installation crews.

3.9.2.5 *Shop Drawings Engineering Requirements*: Some Shop Drawings require an engineer stamp to be affixed on the Drawings and calculations. In such cases, a current and valid engineering stamp shall be affixed by a California registered engineer. No out of State engineers shall stamp Shop Drawings. (See DSA IR A-18). In most cases, an engineer means California registered mechanical, structural, electrical or plumbing engineer. California Registered Civil Engineers will not be accepted for structural details unless specifically approved by DSA.

3.9.2.6 *DSA Approvals Required Prior to Work*. No work on a Shop Drawing that requires DSA approval may proceed until DSA approval is received. Contractor has provided DSA approval time and allowed adequate time for corrections in Contractor's Schedule as required pursuant to Article 8.

3.9.2.7 *Shop Drawing Identification.* All Shop Drawings must be properly identified with the name of the Project and dated, and accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" all qualifications, departures, or deviations from the Contract Documents. Shop Drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Subcontractor submissions shall be made through the Contractor. Each drawing shall have a clear space for the stamps of Architect and Contractor.

3.9.3 Deferred Approvals

Deferred approvals shall be submitted and processed to ensure all DSA and other governmental approvals are secured so as to not delay the Project. There may be additional requirements for Deferred Approvals at Division 1 of the Specifications. All Deferred Approvals shall be prepared by Contractor or Contractor's agent early enough so as to not delay the Project. Contractor is aware that Title 24 California Code of Regulations Section 4-317 have specific requirements for Deferred Approval as to governing agencies and as to the Architect and Engineer for the Project. As a result, any delay associated with the time for approval by applicable agencies or by the Architect or Architect's consultants shall be Contractor's. Contractor is required to comply with inclusion of Deferred Approvals in the Schedule as required under Article 3.9.6

3.9.3.1 *DSA Approvals Required Prior to Work.* No work on a Deferred Approval item may proceed on the components until DSA approval is received. Contractor has provided DSA approval time and allowed adequate time for any DSA revisions in Contractor's Schedule as required pursuant to Article 8.

3.9.4 Submittals and Samples

3.9.4.1 *Information Required With Submittals*: Manufacturer, trade name, model or type number and quantities: Information provided must be of sufficient detail to allow Architect and Engineer to compare the submitted item with the specified products and acceptable products listed, in the Specifications and addenda.

3.9.4.2 *Description of Use and Performance Characteristics*: Information should be furnished describing the normal use and expected performance of the product. The Architect and Contractor review this information to confirm that the product is appropriate for the intended use.

3.9.4.3 *Size and Physical Characteristics:* The size and physical characteristics, such as adjustment capabilities, which is reviewed by both the Contractor and Architect. The Contractor has the most available information for comparing adjoining materials and equipment. The Contractor also needs to know the size and weight of the equipment for lifting and handling considerations.

3.9.4.4 *Finish Characteristics:* The Architect reviews the available finishes and selects the appropriate finish, if the finish was not previously specified in the documents. The Contractor should confirm that finish requirements in the Specifications are being met by the product.

3.9.4.5 *Contractor Responsible for Jobsite Dimensions*: Some material is custom-Fabricated to job conditions, requiring dimensions from the jobsite. These jobsite dimensions are provided by the Contractor as part of the Contractor's responsibilities for the Project and shall be provided prior to release of the product for manufacture. Contractor shall not rely on Architect or Engineers to provide jobsite dimensions.

3.9.4.6 *Full Range of Samples Required (When Specific Items Not Specified).* Except in cases where the exact color and type of item is specified since the District is utilizing items Standardized or pre-selected by District, the full range of color, graining, texture, or other characteristics are anticipated for review in finished products, a sufficient number of samples of the specified materials shall be furnished by the Contractor to indicate the full range of characteristics which will be present in the finished products. Products delivered or erected without Submittal and approval without providing a full range of samples shall be subject to rejection. Except for range samples, and unless otherwise called for in the various sections of the Specifications or Specification Section 1, samples shall be submitted in duplicate.

3.9.4.7 *Labeling of Samples.* All samples shall be marked, tagged, or otherwise properly identified with the name of the submitting party, the name of the Project, the purpose for which the samples are submitted and the date.

3.9.4.8 *Transmittal letter.* All samples shall be accompanied by a letter of transmittal containing similar information, together with the Specification section number.

3.9.4.9 *Labels and Instructions.* All samples of materials shall be supplied with the manufacturer's descriptive labels and application instructions. Each tag or sticker shall have clear space for the review stamps of Contractor and Architect.

3.9.4.10 *Architect's Review.* The Architect will review and, if appropriate, approve submissions and will return them to the Contractor with the Architect's stamp and signature applied thereto, indicating the timing for review and appropriate action in compliance with the Architect's (or District's) standard procedures. In the cases where a CM is hired by the District, CM may be the party that receives and performance logging and initial processing of the Samples. CM may, in some cases, reject samples that are not in conformance with Contract requirements.

3.9.5 Submittal Submission Procedure

3.9.5.1 *Transmittal Letter and Other Requirements.* All Submittals must be properly identified with the name of the Project and dated, and each lot submitted must be accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" on the submissions, all qualifications, departures, or deviations from the Contract Documents. Shop Drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Subcontractor submissions shall be made through the Contractor. Each drawing shall have a clear space for the stamps of Architect and Contractor. Refer to Division 1. In the case where a CM is hired on the Project, the CM may be designated to receive the Submittals for the Project, log the Submittals, and in some cases reject Submittals that do not conform to Contract requirements. Submittal Procedures for further information.

3.9.5.2 *Copies Required.* Each Submittal shall include one (1) legible, reproducible (if electronic is available, electronic copies shall also be provided) and five (5) legible prints of each drawing or schedule, table, cut sheet, etc., including fabrication, erection, layout and setting drawings, and such other drawings as required under the various sections of the Specifications, until final acceptance thereof is obtained. Subcontractor shall submit copies, in an amount as requested by the Contractor, of: (1) manufacturers' descriptive data for materials, equipment, and fixtures, including catalog sheets showing dimensions, performance, characteristics, and capacities; (2) wiring diagrams and controls; (3) schedules; (4) all seismic calculations and other calculations; and (5) other pertinent information as required by the District or Architect. See also Division 1.

3.9.5.3 *Corrections.* The Contractor shall make all corrections required by Architect, District or CM and shall resubmit, as required by Architect or CM, corrected copies of Shop Drawings or new samples until approved. Contractor shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections required by the Architect on previous submissions. Professional services required for more than one (1) re-review of required Submittals of Shop Drawings, Product Data, or samples are subject to charge to the Contractor pursuant to Article 4.5.

3.9.5.4 *Approval Prior to Commencement of Work.* No portion of the Work requiring a Shop Drawing or sample submission or other Submittal shall be commenced until the

submission has been reviewed by Contractor and Architect (and CM, if applicable) and approved by Architect (and CM where applicable) unless specifically directed in writing by the Architect. All such portions of the Work shall be in accordance with approved Shop Drawings and samples.

3.9.5.5 *District's Property.* All Submittals, Shop Drawings, computer disks, BIM modeling information, clash checks, schedules, annotated Specifications, samples and other Submittals shall become the District's property upon receipt by the District or Architect.

3.9.6 Schedule Requirements for Submittals

Contractor shall obtain and shall submit all required Submittals (i.e. Shop Drawings, Deferred Approvals, Samples, etc.), in accordance with Contractor's "Schedule for Submission of Shop Drawings and Samples" as required in the scheduling portion of the General Conditions at Articles 8 and the Specifications (as long as the Specifications do not conflict with General Conditions. In the case of conflict, the conflicting provision shall be controlled by the General Conditions and the remaining Specifications sections shall be interpreted as if the general conditions language is inserted) with such promptness as to cause no delay in its own Work or in that of any other contractor or subcontractor but in no event later than thirty five (35) days after the Notice to Proceed is issued except in the specific cases noted as an exception under Article 3.7.2.1. No extensions of time will be granted to Contractor or any Subcontractor because of its failure to have Shop Drawings and samples submitted in accordance with this article, Division 1 and the Schedule. Each Subcontractor shall submit all Shop Drawings, samples, and manufacturer's descriptive data for the review of the District, the Contractor, and the Architect through the Contractor.

3.9.6.1 *Consideration of Schedule.* Contractor has considered lead times, DSA or other agency governmental review times, Architect or Engineer review times, manufacturing seasons, and specific long lead procurement concerns for all submittals for the Project.

3.9.7 General Submittal Requirements

3.9.7.1 *Contractor Submittal Representations and Coordination.* By submitting Shop Drawings, Product Data, samples, etc., the Contractor represents that it has determined and verified all materials, field measurements, catalog numbers, related field construction criteria, and other relevant data in connection with each such submission, and that it has checked, verified, and coordinated the information contained within such Submittals with the requirements of the Work and of the Contract Documents, including the construction schedule.

3.9.7.2 *Contractor Coordination.* Contractor shall stamp, sign, and date each Submittal indicating its representation that the Submittal meets all of the requirements of the Contract Documents and evidence Contractor's review through execution of the following stamp to be placed on each Shop Drawings:

> "[Contractor] has reviewed and approved the field dimensions and the construction criteria, and has also made written notation regarding any information in the Shop Drawings and Submittals that does not conform to the Contract Documents. This Shop Drawing or Submittal has been coordinated with all other Shop Drawings and Submittals received to date by me as Contractor and this duty of coordination has not been delegated to Subcontractors, material suppliers, the Architect, or the Engineers on this Project.
>
> _____
> Signature of Contractor and date

3.9.7.3 *No Deviation from Contract Documents.* The submission of the Shop Drawings, Product Data, samples, etc., shall not deviate from the *requirement*s of the Contract Documents including detailing and design intent which is specifically outlined in Contract Documents except as specifically authorized by the Architect or through an accepted substitution pursuant to Article 3.10.4. All deviations from the Contract Documents shall be narratively described in a transmittal accompanying the Shop Drawings. However, Shop Drawings shall not be used as a means of requesting a substitution, the procedure for which is defined in Article 3.10.4, "Substitutions."

3.9.7.4 *Contractor Responsibility for Shop Drawings Conformance to Contract Documents*. Review by District and Architect shall not relieve the Contractor or any Subcontractor from its responsibility in preparing and submitting proper Shop Drawings in accordance with the Contract Documents.

3.9.7.5 *Incomplete Submittals.* Any submission, which in Architect's opinion is incomplete, contains errors, or has been checked superficially, will be returned not reviewed by the Architect for resubmission by the Contractor. Refer to Submittal Procedures of the Specifications for additional information. The Contractor shall be responsible for any related delays and shall not be the basis for any Claim.

3.9.7.6 *Shop Drawings and Submittals Shall Not Be Used as a Method to Make a Substitution.* Shop Drawings and Submittals shall not be used as a means of requesting a substitution or to make changes in the Contract Documents. If changes are made to the Contract Documents through the Shop Drawings, the Architect shall have the right to reject the Submittal. If the Architect does not note the deviation from the approved Plans and Specifications, the Contractor is still responsible for the change and the Architect or the District may require the Shop Drawings be revised to properly reflect the approved Contract Documents. The Architect or District may also require that the Contractor bear all costs under Article 4.5 and consequential damages associated with a CCD to revise Plans and Specifications to accommodate the deviation from approved Plans and Specifications.

3.9.7.7 Extent of Review. In reviewing Shop Drawings, the Architect will not verify dimensions and field conditions. The Architect will review and approve Shop Drawings, Product Data, samples, etc., for aesthetics and for conformance with the design concept of the Work and the information in the Contract Documents. The Architect's review shall neither be construed as a complete check which relieves the Contractor, Subcontractor, manufacturer, fabricator, or supplier from responsibility for any deficiency that may exist or from any departures or deviations from the requirements of the Contract Documents unless the Contractor has, in writing, called the Architect's attention to the deviations at the time of submission. The Architect's review shall not relieve the Contractor or Subcontractors from responsibility for errors of any sort in Shop Drawings or schedules, for proper fitting of the Work, coordination of the differing Subcontractor trades and Shop Drawings and Work which is not indicated on the Shop Drawings at the time of submission of Shop Drawings. Contractor and Subcontractors shall be solely responsible for any quantities which may be shown on the Submittals or Contract Documents.

3.10 SUBSTITUTIONS

3.10.1 Definition

A Substitution is a change in product, material, equipment, or method of construction from those required by the Construction Documents proposed by the Contractor. For this Project, a Substitution is subject to the filing of a Construction Substitution Request Form at the time of bid and meeting the requirements of this Article.

3.10.2 One Product Specified

Unless the Specifications state that no substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, or type of construction or any specific name, make, trade name, or catalog number, with or without the words "or equal," such specification shall be deemed to be used for the purpose of facilitating description of the material, process, or article desired and shall be deemed to be followed by the words "or equal." Subject to the requirements of properly submitting a Substitution Request for as Addressed in Article 3.10.4, the Contractor may, unless otherwise stated, offer any material, process, article, etc., which shall be materially equal or better in every respect to that so indicated or specified ("Specified Item") and will completely accomplish the purpose of the Contract Documents.

3.10.3 Products Specified Which Are Commercially Unavailable

If the Contractor fails to make a request for substitutions for products, prior to the submission of its bid, and such products subsequently become commercially unavailable, the Contractor may request a substitution for such commercially unavailable item. The decision to grant this request is solely at the District's discretion. The written approval of the District, consistent with the procedure for Change Orders, shall be required for the use of a proposed substitute material. The District may condition its approval of the substitution upon the delivery to District of an extended warranty or other assurances of adequate performance of the substitution as well as an equitable deduction in the Contract Price should the substituted item cost less than the Specified Item. All risks of delay due the approval of a requested substitution by the DSA, or any other governmental agency having jurisdiction, shall be on the requesting party. All additional costs, DSA review costs, all procurement and construction delays, and all costs for review by the Architect or its consultants shall be the responsibility of the Contractor and will be deducted from Contractor's pay request.

3.10.4 Substitution Request Form

Requests for substitutions of products, materials, or processes in place of a Specified Item must be in writing on the District's Substitution Request Form ("Request Form") at the time of submitting bids to the District, except as provided for in Article 3.10.3.

The Request Form must be accompanied by evidence as to whether the proposed substitution:

a. Is equal in quality/service/ability to the Specified Item;

b. Will entail no changes in detail, construction, and scheduling of related work;

c. Will be acceptable in consideration of the required design and artistic effect;

d. Will provide no cost disadvantage to the District;

e. Will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; and

f. Will required no change of the construction schedule.

In completing the Request Form, the bidder must state, with respect to each requested substitution, whether the bidder will agree to provide the Specified Item in the event that the District denies

the bidder's request for such requested substitution. In the event that the bidder has agreed in the Request Form to provide the Specified Item and the District denies the bidder's requested substitution for a Specified Item, the bidder shall provide the Specified Item without any additional cost or charge to the District.

After bids are opened, the apparent lowest bidder shall provide, within five (5) days of opening such bids, any and all Drawing, Specifications, samples, performance data, calculations, and other information, as may be required to assist the Architect, CM and the District in determining whether the proposed substitution is acceptable. The burden of establishing these facts shall be upon the bidder.

After the District's receipt of such evidence by the bidder, the District will make its final decision as to whether the bidder's request for substitution for any Specified Items will be granted. The decision as to whether a proposed request for substitution is equal to a Specified Item shall be at the sole discretion of the District. Any request for substitution that is granted by the District shall be documented and processed though a Change Order. Contractor must submit a complete Submittal of the requested substitution and a Shop Drawing showing configuration, dimensions, and other critical information associated with the substitution that meets the requirements of Article 3.9. The District may condition its approval of any substitution upon delivery to the District of an extended warranty or other assurances of adequate performance of the substitution. Any and all risks of delay due to approval by the DSA or any other governmental agency having jurisdiction shall be on the bidder.

If the Architect and District accept a proposed substitution, the Contractor agrees to pay for all DSA review costs, engineering and design services, including, without limitation, compensation to the Architect and affected engineers for their required time to process such substitution through the Division of the State Architect, if required, and to make all changes and adjustments in materials or the work of all trades directly or indirectly affected by the substituted item or items at no cost to the District.

3.10.5 Substitution Requests After Bid

The District, in its sole discretion, may accept a request for substitution by the Contractor or may request Contractor substitute a specified item. Any substitutions requested after bids are opened shall be subject to the same conditions and requirements set forth in Article 3.10.4 above. If any substitutions, that in the District or Architect's determination, results in a credit to the District, the credit amount shall be agreed upon in writing, otherwise, the request for substitution shall be deemed denied.

3.11 INTEGRATION OF WORK

3.11.1 Scope

The Contractor shall be responsible for cutting, fitting, or patching to complete the Work and to make all parts fit together properly. Contractor shall be responsible for ensuring that all trades are coordinated and scheduled so as to ensure the timely and proper execution of the work. When modifying existing work or installing new Work adjacent to existing work, Contractor shall match, as closely as conditions of Site and materials will allow, the finishes, textures, and colors of the original work, refinishing existing work at no additional cost to District. All cost caused by defective or ill-timed work shall be borne by Contractor. Contractor shall be solely responsible for protecting existing work on adjacent properties and shall obtain all required permits for shoring and excavations near property lines.

3.11.2 Structural Members

New or existing structural members and elements, including reinforcing bars and seismic bracing, shall not be cut, bored, or drilled except by written authority of the Architect. Work done contrary

to such authority is at the Contractor's risk and subject to replacement at its own expense without reimbursement under the Contract. Schedule delays resulting from Agency approvals for unauthorized work shall be the Contractor's responsibility.

3.11.3 Subsequent Removal

Permission to patch any areas or items of the Work shall not constitute a waiver of the District's or the Architect's right to require complete removal and replacement of the areas of items of the Work if, in the opinion of the Architect or the District, the patching does not satisfactorily restore quality and appearance of the Work or does not otherwise conform to the Contract Documents.

3.12 CLEANING UP

3.12.1 Contractor's Responsibility to Clean Up

Contractor at all times shall keep premises free from debris such as waste, dust, excess water, storm water runoffs, rubbish, and excess materials and equipment. Contractor shall not leave debris under, in, or about the premises, but shall promptly remove same from the premises and dispose of it in a lawful manner. Disposal receipts or dump tickets shall be furnished to the Architect within five (5) days of request.

Contractor shall remove rubbish and debris resulting from the Work on a daily basis. Contractor shall maintain the structures and Site in a clean and orderly condition at all times until acceptance of the Project by the District. Contractor shall keep its access driveways and adjacent streets, sidewalks, gutters and drains free of rubbish, debris and excess water by cleaning and removal each day. All concrete, sidewalks, and paths of travel shall be broom cleaned daily.

3.12.2 General Final Clean-Up

Upon completion of Work, Contractor shall employ experience workers or professional cleaners for final cleaning. Contractor shall clean each surface to the condition expected in a normal, commercial, building cleaning and maintenance program including, but not limited to, the performance of the following:

a. Clean interior and exterior of buildings, including fixtures, equipment, walls, floors, ceilings, roofs, window sills and ledges, horizontal projections, and any areas where debris has collected, so surfaces are free from foreign material or discoloration;

b. Clean the Project site. The grounds should be cleared of any Contractor equipment, raked clean of debris and trash removed. Sweep paved areas broom clean;

c. Repair or replace any damaged materials. Replace any chipped or broken glass;

d. Remove any and all stains;

e. Remove labels that aren't permanent labels;

f. Clean and polish all glass, plumbing fixtures, equipment, finish hardware and similar finish surfaces. Remove any glazing compounds;

g. Remove temporary utilities, fencing, barricades, planking, sanitary facilities and similar temporary facilities from Site;

h. Remove temporary film that remains on any hardware, doors or other surfaces; and

i. Seal the bottom and tops of all doors.

3.12.3 Special Clean-Up.

In addition to the general cleaning, the following special cleaning shall be done at the completion of the Work in accordance with the Specifications including, but not limited to:

a. Remove putty stains from glazing, then wash and polish glazing;

b. Remove marks, stains, fingerprints and other soil or dirt from painted, stained or decorated work;

c. Remove temporary protection and clean and polish floors and waxed surfaces;

d. Clean and polish hardware and plumbing trim; remove stains, dust, dirt, plaster and paint;

e. Wipe surfaces of mechanical and electrical equipment;

f. Remove spots, soil, plaster and paint from tile work, and wash tile;

g. Clean all fixtures and equipment, remove excess lubrication, clean light fixtures and lamps, polish metal surfaces;

h. Vacuum-clean carpeted surfaces; and

i. Remove debris from roofs, down spout and drainage system.

3.12.4 Failure to Cleanup

If the Contractor fails to clean up as provided in the Contract Documents, the District may do so, and the cost thereof shall be the responsibility of the Contractor pursuant to Article 2.2 and seek a Deductive Change Order.

3.13 ACCESS TO WORK

The Contractor shall provide the District, the Architect, Engineers and the Inspector of Record, access to the Work in preparation and progress wherever located. Contractor shall provide safe and proper facilities for such access so that District's representatives may perform their functions.

CONTRACTOR IS AWARE THAT THIS CONTRACT MAY BE SPLIT INTO SEVERAL PHASES AS ADDRESSED IN ARTICLE 6.

3.13.1 Special Inspection, Inspections or Tests Out of State, Out of Country or Remote from Project

If Contractor has a Subcontractor or supplier that requires in plant or special inspections or inspections or tests that are out of the country, out of the state, or a distance of more than 200 miles from the Project site, the Special Inspector or Inspector shall be provided access so the special inspection or inspection may occur in the remote location. In some cases, the DSA Inspector may also require access in addition to Special Inspectors and individuals performing tests. Inspections/tests shall occur during normal work hours. See also Article 4.3.6.

3.14 ROYALTIES AND PATENTS

3.14.1 Payment and Indemnity for Infringement

Contractor shall hold and save the District and its officers, agents, and employees, the Construction Manager, the Architect, and the Architect's consultants harmless from liability of any nature or kind, including cost and expense, for or on account of any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the District, unless otherwise specifically provided in the Contract Documents, and unless such liability arises from the sole negligence, or active negligence, or willful misconduct of the District, the Architect, or the Architect's consultants.

3.14.2 Review

The review by the Architect of any method of construction, invention, appliance, process, article, device, or material of any kind shall be for its adequacy for the Work and shall not be an approval for the use by the Contractor in violation of any patent or other rights of any person or entity.

3.15 INDEMNIFICATION

3.15.1 Contractor

See Agreement Form. Contractor shall ensure that its contract with each of its Subcontractors contains provisions requiring the Subcontractors to defend, indemnify and hold harmless the District, Architect, Inspector, the State of California to a minimum level as set forth in this Article and consistent with the indemnity and hold harmless language in the Agreement Form.

The Contractor's and Subcontractors' obligation to defend, indemnify and hold harmless the District, Architect, Inspector, the State of California and their officers, employees, agents and independent contractors hereunder shall include, without limitation, any and all claims, damages, and costs for the following: (1) any damages or injury to or death of any person, and damage or injury to, loss (including theft), or loss of use of, any property; (2) breach of any warranty, express or implied; (3) failure of the Contractor or Subcontractors to comply with any applicable governmental law, rule, regulation, or other requirement; (4) products installed in or used in connection with the Work; and (5) any claims of violation of the Americans with Disabilities Act ("ADA").

3.16 SUBMISSION OF DAILY REPORTS

3.16.1 General

By 10:00 a.m. on the following business day, the Contractor shall submit a Daily Report to the Inspector and copy the Architect for the previous day's Work. If there is a Construction Manager, the original Daily Report is to be provided to the Construction Manager and copies sent to the Architect and the Inspector. Daily Reports shall be prepared on forms approved by the District, together with

applicable delivery tickets, listing all labor, materials, and equipment involved for that day. The District reserves the right to note inconsistencies or inaccuracies in the Daily Reports. In such cases, pertinent notes shall be entered by each party to explain points which cannot be resolved that day. Each party shall retain a signed copy of the report. Daily Reports by Subcontractors or others shall be submitted through the Contractor.

3.16.2 Labor

The Daily Report shall show names of workers, classifications, hours worked and hourly rate. The locations where work occurred shall also be identified in the Daily Report. Project superintendent expenses are not allowed.

3.16.3 Materials

The Daily Report required shall describe and list quantities of materials used and unit costs.

3.16.4 Equipment

The Daily Report required shall show type of equipment, size, identification number, and hours of operation, including loading and transportation, if applicable, and hourly/daily cost. Move-on and move-off fees shall be noted.

3.16.5 Other Services and Expenditures

Other services and expenditures shall be described in the Daily Report in detail as the District requires.

3.16.6 Failure to Submit Daily Report

If Contractor does not submit its Daily Report by 10 am the next business day, the Inspector of Record shall prepare a Daily Report addressing each of the above items. The cost for the Inspector's services to prepare the Daily Report shall be addressed through a Deductive Change Order under Article 7.7.4.

3.17 AS-BUILT DRAWINGS AND ANNOTATED SPECIFICATIONS

Throughout the duration of the Project, Contractor shall maintain on a current basis an accurate and complete set of As-Built Drawings (and Annotated Specifications) clearly showing all changes, revisions to Specifications and substitutions during construction, including, without limitation, field changes and the final location of all electrical and mechanical equipment, utility lines, ducts, outlets, structural members, walls, partitions, and other significant features. In case a Specification allows Contractor to elect one of several brands, makes, or types of material or equipment, the annotations shall show which of the allowable items the Contractor has furnished. The Contractor will update the As-Built Drawings and Annotated Specifications as often as necessary to keep them current, but no less often than weekly.

Contractor shall update As-Built Drawings with complete information on an area of Work at or near the time when the Work is being performed and prior to any DSA 152 sign off and prior to any Work being covered.

The As-Built Drawings and Annotated Specifications shall be kept at the Site and available for review and inspection by the District and the Architect. Failure to maintain and update the As-Built Drawings is a basis to withhold Progress Payments pursuant to Article 9.6.

3.17.1 Upon Beneficial Occupancy

Contractor shall obtain and pay for reproducible Plans upon Beneficial Occupancy. Contractor shall deliver Plans to District Representative (Construction Manager if one is hired for the Project).

3.17.2 As-Builts at Completion of Work

Upon completion of the Work and prior to and as a condition precedent to Application for Retention Payment, the Contractor will provide one neatly prepared and complete set of As-Built Drawings and Annotated Specifications to the District. Contractor shall certify the As-Builts as a complete and accurate reflection of the actual construction conditions of the Work by affixing a stamp indicating the Drawings are As-Builts and certifying accuracy on the final set of As-Builts. Failure to deliver a complete As-Built set of Drawings may result in significant withholdings to ensure Work is properly documented. See Article 9.9.1.

3.17.3 Log of Control and Survey Documentation

Contractor shall complete and maintain an accurate log or all control and survey documentation for the Project as the Work progresses. All reference and control points shall be recorded on the As-Built Drawings. The basis of elevations shall be one of the established benchmarks that must be maintained on the As-Builts.

3.17.4 Record Coordinates for Key Items

Contractor shall record, by coordinates, all utilities on-site with top of pipe elevations, major grade and alignment changes, rim, grate or top of curb and flow line elevations of all drainage structures and sewer manholes. Contractor shall update record information at or near the time when work is occurring in an area and prior to DSA 152 sign off on any category of Work and prior to covering the Work.

3.17.5 BIM As-Built Drawings

If BIM is utilized for the Project, then an electronic version of such As-Built Drawings and Annotated Specifications will be delivered to District (in an acceptable format to District).

3.18 EQUIPMENT MANUALS

Contractor shall obtain and furnish three (3) complete sets of manuals containing the manufacturers' instructions for maintenance and operation of each item of equipment and apparatus furnished under the Contract Documents and any additional data specifically requested under the various sections of the Specifications for each division of the Work. The manuals shall be arranged in logical, sequential order, labeled, indexed, and placed in three-ring binders. At the completion of its Work, the Contractor shall certify, by endorsement thereon, that each of the manuals is complete, accurate, and covers all of its Work. Prior to submittal of Contractor's Application for Retention Payment, and as a further condition to its approval by the Architect, each Subcontractor shall deliver the manuals, arranged in logical, sequential order, labeled, indexed, endorsed, and placed in three-ring binders, to the Contractor, who shall

assemble these manuals for all divisions of the Work, review them for completeness, and submit them to the District through the Architect.

3.19 DIR REGISTRATION

Strict compliance with all DIR registration requirements in accordance with Labor Code sections 1725.5 and 1771.1 is a material obligation of the Contractor and all of its subcontractors (of any tier) under the Contract Documents. The foregoing includes, without limitation, compliance with DIR registration requirements at all times during performance of the Work by the Contractor and all of its subcontractors of any tier. The failure of the Contractor and all subcontractors of any tier to be properly registered with DIR at all times during performance of the Work is a material breach of the Contract and subject to termination for cause.

An affirmative and ongoing obligation of the Contractor under the Contract Documents is the verification that all subcontractors of any tier are at all times during performance of the Work are in full and strict compliance with the DIR registration requirements. The Contractor shall not permit or allow any subcontractor of any tier to perform any Work without the Contractor's verification that all subcontractors are in full and strict compliance with the DIR registration requirements. Any subcontractors of any tier not properly registered with DIR shall be substituted in accordance with Labor Code section 1771.1. Contractor or its subcontractors of any tier shall not be entitled to any additional costs or time arising from or in any way related to compliance with the DIR registration requirements.

ARTICLE 4
ADMINISTRATION OF THE CONTRACT AND CLAIMS

4.1 ARCHITECT

4.1.1 Replacement of Architect

In the case of the termination of the Architect, the District may appoint an Architect or another construction professional or may perform such functions with its own licensed professional personnel. The status of the replacement Architect under the Contract Documents shall be the same as that of the former Architect.

4.2 ARCHITECT'S ADMINISTRATION OF THE CONTRACT

4.2.1 Status

Pursuant to Titles 2 of the California Code of Regulations and as required pursuant to the Field Act, Education Code 17280 et seq., the Architect will provide administration of the Contract Documents and the Work, and will be the District's representative during construction, as well as during the one (1) year period following the commencement of any warranties. The Architect will have authority to act on behalf of the District only to the extent provided in the Contract Documents.

4.2.2 Site Visits

The Architect will visit the Site at intervals necessary in the judgment of the Architect to become generally familiar with the progress and quality of the Work and to determine in general if the Work is being performed in accordance with the Contract Documents and as otherwise required by DSA.

4.2.3 Limitations of Construction Responsibility

The Architect, District and CM shall not have control over, charge of, or be responsible for construction means, methods, techniques, schedules, sequences or procedures, fabrication, procurement, shipment, delivery, receipt, installation, or for safety precautions and programs in connection with the Work, since these are solely the Contractor's responsibility under the Contract Documents. The Architect, District and CM shall not be responsible for the Contractor's, Subcontractors', material or equipment suppliers', or any other person's schedules or failure to carry out the Work in accordance with the Contract Documents. The Architect, District and CM shall not have control over or charge of acts or omissions of the Contractor, Subcontractors, their agents or employees, or any other persons or entities performing or supplying portions of the Work. The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect, District or CM in the Architect, District or CM's administration of the Contract Documents, or by tests, inspections, or approvals required or performed by persons other than the Contractor.

4.2.4 Communications Facilitating Contract Administration

Except where a CM is on the Project, or as otherwise provided in the Contract Documents or when direct communications are warranted by special circumstances, the District and the Contractor shall communicate through the Architect. In the cases where a CM is hired for the Project, all communication shall be through the CM (unless otherwise directed) with copies to the District, Architect and Inspector. Where direct communication is necessary between the District and the Contractor, the District's communication shall be through the District's authorized designated person. The Architect and

CM shall be promptly informed, and shall receive copies of all written communications. Contractor shall not rely upon any communications from the District that is not from the District's Representative. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material or equipment suppliers shall be through the Contractor. In the case where a CM is hired for the Project, the CM shall be the main point of contact for communication of information. Copies should be sent to the Architect, District Representative and Inspector.

4.2.5 Payment Applications

The Architect will review and make recommendations to the District regarding the amounts due the Contractor on the Certificates for Payment pursuant to Article 9.3.4 and subject to the Inspector's review, (CM review, if applicable) and Architect's observation. This review of Payment Applications is sometimes called a "Pencil Draft." Return of a Pencil Draft shall constitute the District's dispute of the Payment Application that has been submitted. Contractor shall promptly respond to Pencil Drafts or Contractor's Payment Applications may be delayed. Contractor's failure to promptly respond to a Pencil Draft shall qualify as a delay in the Prompt Payment of a Request for Payment or Request for Retention.

4.2.6 Rejection of Work

In addition to the rights, duties, and obligations of the Inspector under this Article, the Architect may recommend to the District that the District reject Work which does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable to achieve the intent of the Contract Documents, the Architect (and/or CM) may recommend to the District that the District require additional inspection or testing of the Work in accordance with Article 13.5, whether or not such Work is Fabricated, installed, or completed. District may have Non-conforming Work removed and replaced pursuant to Article 9.7. However, neither this authority of the Architect (or CM) nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect (or CM) to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons performing portions of the Work.

Contractor shall, without charge, replace or correct Work found by the District to not be in conformance to Contract requirements. Contractor shall promptly segregate and remove rejected materials from the Project site.

This section is in addition to and separate from the legal duties associated with a Notice of Non-Compliance and the remedies associated with a Notice of Non-Compliance which are addressed at Article 7.1.2.

4.2.7 Warranties upon Completion

The Architect (and where applicable CM), in conjunction with the Inspector will conduct field reviews of the Work to determine the date of Substantial Completion and of Final Completion, shall receive and forward to the District for the District's review written warranties and related documents required by the Contract and assembled by the Contractor, and will issue a final Certificate for Payment when the Architect believes the Work has been completed in compliance with the requirements of the Contract Documents (See Article 9.11 for Close-Out). The handling by the Architect (or where applicable CM) of such warranties, maintenance manuals, or similar documents shall not diminish or transfer to the Architect any responsibilities or liabilities required by the Contract Documents of the Contractor or other entities, parties, or persons performing or supplying the Work.

On some Projects, the District will take a phased occupancy of the Project. In those cases, the District may commence the running of warranties on the buildings, or phases that are accepted after Punch List is completed and the District has accepted Completion of the separate phase. A separate Notice of Completion may be filed for the separate building or phase of work and warranties shall commence for the separate phase only to the extent that warranties do not require coordination or connection to other buildings or other parts of the site and only if the warranted item is completed to its entirety in the segregated building or phased area.

If written warranties are not provided at the time the Punch List is nearing completion, Architect (with recommendations from the CM and Inspector) shall determine the dollar value of the warranties and shall make recommendation for withholdings necessary to effectuate the transfer of such warranties to the District for future use as part of the Punch List for the Project pursuant to Article 9.6.

Warranties are not commenced through utilizing of equipment for testing and operation as necessary to acclimate buildings or where necessary to test systems.

4.2.8 Interpretation

The Architect will interpret and decide matters concerning performance and requirements of the Contract Documents. Architect shall make clarifications as necessary to interpret the Contract Documents.

4.3 PROJECT INSPECTOR

4.3.1 General

One or more Project Inspectors employed by the District and approved by the Division of the State Architect will be assigned to the Work in accordance with the requirements of Title 24 of the California Code of Regulations. The Inspector(s) duties are as specifically defined in Title 24 Section 4-333 and 4-342 and in DSA IR A-8.

4.3.2 Inspector's Duties and DSA Noted Timelines for Inspection

All Work shall be under the observation of the Inspector. Contractor shall establish a protocol for requesting inspection with Inspector so as to not delay the Work and provide adequate time for the Inspector to perform inspection. If such a protocol is not established ahead of time, Inspector may utilize the time criteria set by Title 24 of 48 hours in advance of submitting form DSA 156 for each new area. The Inspector shall have free access to any or all parts of the Work at any time. The Contractor shall furnish the Inspector such information as may be necessary to keep the Inspector fully informed regarding progress and manner of Work and character of materials. Such observations shall not, in any way, relieve the Contractor from responsibility for full compliance with all terms and conditions of the Contract, or be construed to lessen to any degree the Contractor's responsibility for providing efficient and capable superintendence. The Inspector is not authorized to make changes in the Drawings or Specifications nor shall the Inspector's approval of the Work and methods relieve the Contractor of responsibility for the correction of subsequently discovered defects, or from its obligation to comply with the Contract Documents.

Inspector shall electronically post DSA required documents on the DSA electronic posting website. It is the Contractor's responsibility to determine the status of posting and determine if all the criteria for sign off of a category of Work on the Project Inspection Card (Form DSA 152) as defined more thoroughly in the most current version of the DSA 152 manual posted on the DSA website.

Inspector may collaborate with Contractor about approval of areas that may be constructed and approved incrementally under the DSA 152 card pursuant to the guidelines of PR-13 at Article 1.17. Inspector shall work with Contractor to present incremental approval proposals to DSA.

4.3.3 Inspector's Authority to Reject or Stop Work

The Inspector shall have the authority to reject Work whenever provisions of the Contract Documents are not being complied with, and Contractor shall instruct its Subcontractors and employees accordingly. In addition, the Inspector may stop any Work that poses a probable risk of harm to persons or property. The Contractor shall instruct its employees, Subcontractors, material and equipment suppliers, etc., accordingly. The absence of any Stop Work Order or rejection of any portion of the Work shall not relieve the Contractor from any of its obligations pursuant to the Contract Documents.

4.3.4 Inspector's Facilities

Within seven (7) days after the notice to proceed, the Contractor shall provide the Inspector with the temporary facilities as required. More specific requirements for the Inspector facilities may be further described under Division 1 of the Specifications.

4.3.5 Testing Times

The District will provide inspection and testing at its cost during the normal eight (8) hour day Monday through Friday (except holidays). Work by the Contractor outside of the normal eight (8) hour day shall constitute an authorization from the Contractor to the District to provide inspection and testing as required outside of the normal eight (8) hour day. Contractor shall provide adequate time for inspections so as to not delay the Work. An advanced timing protocol may be established pursuant to Article 4.3.2. If the Contractor is behind Schedule then it is incumbent on the Contractor to provide advance forecast through look ahead of the anticipated date for inspection so the Inspector may plan their activities so as to not delay the Project. Contractor shall reimburse District for any additional costs associated with inspection and testing (including re-inspection and re-testing) outside the normal Monday through Friday eight-hour day and for any retests caused by the Trade Contractor.

While the Contractor is provided a set number of calendar days to complete the project, and if listed in the general or supplementary general conditions, or approved by the District, the contractor may work outside of hours listed above, it is understood that this is done at the convenience of the Contractor. If the Contractor works outside of the standard hours/days listed above, any and all inspection and testing costs will be the sole burden of the contractor. Only inspection and testing costs during normal working hours, as listed in the paragraph above, may be the responsibility of the District. This requirement does not change any requirements as to when an inspector is required to be on site.

It is the Contractor's responsibility to request special inspections with sufficient time so all testing may be timely completed and posted so work may proceed and the Inspector's signature is attached to the Project Inspection Card (Form 152). Specifically, timely request for special inspection under the DSA Verified Report Forms 291 (laboratory), DSA Verified Report Form 292 (Special Inspection), and DSA Verified Report 293 (geotechnical) since DSA requirements under PR 13-01 specifically gives the Special Inspections 14 days to post to the DSA website. Failure to plan and pay (if applicable) for quicker delivery of Special Inspections may be counted as Float, but is not considered Governmental Delay Float under Article 8.1.4.

4.3.6 Special Inspections, Inspections or Tests Out of State, Out of Country or Remote from Project

If Contractor has a Subcontractor or supplier that requires in plant or special inspections, inspections or tests that are out of the country, out of the state or a distance of more than 200 miles from the Project Site, the District shall provide the Special Inspector or individual performing tests time for inspection and testing during normal work hours. Contractor, however, is responsible for the cost of travel, housing, food, out of area premiums that may be in the Inspector/Testing Agreement with District, or other expenses necessary to ensure proper inspection, special inspection or testing is provided by a DSA Certified Inspector, Special Inspector, or individual performing tests. In some cases all three (DSA Inspector, Special Inspector, and Tester) may be required. In addition, if the DSA Certified Inspector, Special Inspector, or individual performing test has contractual travel clauses or special rates for out of town inspection, Contractor is responsible for all costs associated with the contractual travel costs in addition to all other costs. Arrangements for inspection and/or testing shall be made far enough in advance so as to not delay the Work.

4.4 STOP WORK ORDER

DSA may issue a Stop Work Order, or an Order to Comply, when either (1) the Work proceeds without DSA approval; (2) the Work proceeds without a DSA Inspector of Record, or (3) where DSA determines that the Work is not being performed in accordance with applicable rules and regulations, and would compromise the structural integrity of the Project or would endanger lives. If a Stop Work Order is issued, the Work in the affected area shall cease until DSA withdraws the Stop Work Order. Pursuant to Education Code section 17307.5(b), the District shall not be held liable in any action filed against the District for any delays caused by compliance with the Stop Work Order, except to the extent that an error or omission by the District is the basis for the issuance of the Stop Work Order.

Examples of Stop Work Orders that may be issued by DSA include DSA Bulletin 07-04 and Policy 10-01, the installation of automatic fire sprinkler systems without approved Plans, covering Work that has not been approved by Inspector on DSA Project Inspection Card (Form 152).

4.5 RESPONSIBILITY FOR ADDITIONAL CHARGES INCURRED BY THE DISTRICT FOR PROFESSIONAL SERVICES

If at any time prior to the completion of the requirements under the Contract Documents, the District is required to provide or secure additional professional services (including CM, Inspection, Architect, Engineering and Special Consultant Services) for any reason by any act of the Contractor, the District may seek a Deductive Change Order for any costs incurred for any such additional services, which costs shall be deducted from the next progress payment. A Deductive Change Order shall be independent from any other District remedies and shall not be considered a waiver of any District rights or remedies. If payments then or thereafter due to the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the District. Additional services shall include, but shall not be limited to, the following:

a. Services made necessary by the default of the Contractor (Article 14 or Article 2.2).

b. Services made necessary due to the defects or deficiencies in the Work of the Contractor (Article 2.2 and Article 9.6).

c. Spurious or frivolous RFI's issued that do not conform to the requirements of Article 7.4. Issuance of the same RFI after receiving an answer from the Architect or Engineer

d. Review of Schedules that are provided by Contractor that do not Conform with the Requirements of Article 8.

e. Preparation of a CCD or ICD to correct a Contractor Deficiency, or Contractor Caused Notice of Non-Compliance (Article 7.3).

f. Review of Incomplete Shop Drawings or Submittals, including the submission of Piecemeal Shop Drawings or Submittals unless piecemeal Submittals are specifically agreed upon by District (Article 3.9)

g. Services required by failure of the Contractor to perform according to any provision of the Contract Documents.

h. Services in connection with evaluating substitutions of products, materials, equipment, Subcontractors' proposed by the Contractor, and making subsequent revisions to Drawings, Specifications, obtaining DSA approvals, DSA costs for review of CCD's, other governmental agency review costs, and providing other documentation required (except for the situation where the specified item is no longer manufactured or available). (Article 3.10)

i. Services for evaluating and processing Claims or Disputes submitted by the Contractor in connection with the Work outside the established Change Order process.

j. Services required by the failure of the Contractor to prosecute the Work in a timely manner in compliance within the specified time of completion.

k. Services in conjunction with the testing, adjusting, balancing and start-up of equipment other than the normal amount customarily associated for the type of Work involved.

l. Services in conjunction with more than one (1) re-review of Submittals of Shop Drawings, Product Data, samples, RFI's etc.

4.6 DISPUTES AND CLAIMS

4.6.1 Decision of Architect

Disputes between District and Contractor involving money or time, including those alleging an error or omission by the Architect shall be referred initially to the Architect for action as provided in Article 4.6.2 within ten (10) days after Contractor's Article 7 request for Change is denied. If there is a CM, the CM shall receive the Dispute and may review and also assemble opinions and documents to assist the Architect. A decision by the Architect, as provided in Article 4.6.5, shall be required as a condition precedent to proceeding with remedies set forth in Article 4.6.9 as to all such matters arising prior to the date Retention Payment Application is due, regardless of whether such matters relate to execution and progress of the Work, or the extent to which the Work has reached Final Completion.

The condition precedent of an Architect decision shall be waived if: (1) the position of Architect is vacant; (2) the Architect has not received evidence or has failed to render a decision within agreed time limit; (3) the Architect has failed to take action required under Article 4.6.5 within thirty (30) days after the Claim is made, forty-five (45) days have passed after the Claim has been referred to the Architect; or (4) the Claim relates to a stop notice claim not arising from any extra Change Order or Immediate Change Directive for which approval has not been provided.

4.6.2 Architect's Review

The Architect (and CM) will review Disputes and take one or more of the following preliminary actions upon receipt of a Dispute: (1) request additional supporting data from the claimant; (2) submit a schedule to the parties indicating when the Architect expects to take action; (3) reject the Dispute in whole or in part, stating reasons for rejection; (4) recommend approval of the Claim; or (5) suggest a compromise. The Architect may also, but is not obligated to, notify the Surety, if any, of the nature and amount of the Claim.

4.6.2.1 *Architectural Immunity*. Architect review of Claims shall be impartial and meant to resolve Disputes. Pursuant to the case, Huber, Hunt & Nichols, Inc. v. Moore (1977) 67 Cal.App.3d 278, the Architect is provided a quasi-judicial immunity for interpreting and deciding Disputes between the District and Contractor.

4.6.3 Documentation if Resolved

If a Dispute has been resolved, the Architect (and/or CM) will prepare a Change Order or obtain appropriate documentation to document the terms for Board approval.

4.6.4 Actions if Not Resolved

If a Dispute has not been resolved and all documentation requested pursuant to Article 4.6.2 has been provided, the Contractor shall, within ten (10) days after the Architect's preliminary response, assemble all the documents involved in the Dispute including copies of all back-up documentation of costs and the basis for the Dispute and take one or more of the following actions: (1) modify the initial Dispute; (2) notify the Architect that the initial Dispute stands; or (3) supplement with additional supporting data and re-submit to the Architect under Article 4.6.2.

4.6.5 Architect's Written Decision

If a Dispute has not been resolved after consideration of the foregoing and of other evidence presented by the parties or requested by the Architect, the Architect (or Architect through CM) shall provide a written decision twenty (20) days after compliance with Article 4.6.4. Upon expiration of such time period, the Architect (or Architect through CM) will render to the parties its written decision relative to the Dispute, including any change in the Contract Sum or Contract Time or both.

The Architect may also request reasonable additional time to complete Architect's written decision.

If the resolution of the Dispute by the Architect is not satisfactory to the Contractor and copies of all back-up documentation of costs and the basis for the Dispute is fully articulated in a package of material that is complete, the Contractor may then submit a Claim to the District under Article 4.6.9

4.6.6 Continuing Contract Performance

Pending final resolution of a Dispute or Claim, including, negotiation, mediation, arbitration, or litigation, the Contractor shall proceed diligently with performance of the Contract, and the District shall continue to make any undisputed payments in accordance with the Contract (less any withholdings or offsets). If the Dispute or Claim is not resolved, Contractor agrees it will neither rescind the Contract nor stop the progress of the work, but Contractor's sole remedy shall be to submit such controversy to determination by a court of competent jurisdiction in the county where the Project is located, after the Project has been completed, and not before.

4.6.6.1 *District's Option to Submit Individual Disputes to Arbitration during Claims and Disputes Process*. At the District's sole option, in order to more efficiently resolve Claims during the Project and prior to the completion of the Claims Process, pursuant to Government Code section 9201, the District may submit individual Disputes or Claims for binding arbitration and Contractor agrees to the resolution of for each individual Dispute or Claim by an Arbitrator, including resolution of time and delays. If binding arbitration is utilized for individual disputes, such resolution is full and final as to that particular Dispute or Claim. THIS INDIVIDUAL DISPUTE ARBITRATION PROCESS IS NOT AN ARBITRATION CLAUSE AND SHALL NOT BE CONSTRUED AS AN AGREEMENT TO ARBITRATE. THIS INDIVIDUAL DISPUTES ARBITRATION PROCESS IS FOR THE SOLE PURPOSE OF STREAMLINING AND RESOLVING CLAIMS DURING CONSTRUCTION AND SHALL BE REQUESTED ON SPECIFIC INDIVIDUAL ITEMS BY THE DISTRICT PRIOR TO RETENTION PAYMENT (EVEN IF THERE ARE DEDUCTIONS MADE FROM RETENTION PAYMENT) WHICH REPRESENTS THE FINAL COMPLETION OF THE PROJECT.

a. If there is no Retention remaining on the Project, individual Disputes initiated prior to Project Final Completion shall continue until a final disposition of the Arbitration or resolution of the individual Claim or Dispute.

b. No Tolling. The Arbitration process shall not toll the Disputes, Claims, or Appeals process under Article 4.6 or the requirement to submit Claims to Court under Article 4.6.9.4.

4.6.7 Claims for Concealed Trenches or Excavations Greater Than Four Feet Below the Surface

When any excavation or trenching extends greater than four feet below the surface or if any condition involving hazardous substances are encountered:

a. Immediately upon discovery, The Contractor shall promptly, and before the following conditions are disturbed, notify the District, by telephone and in writing, of the condition except:

1. If such condition is a hazardous waste condition, Contractor's bid includes removal or disposal of hazardous substances. Material that the Contractor believes may be a material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing law. In such case, the notice bulletin procedures of Article 7 apply.

2. Subsurface or latent physical conditions at the Site differing from those indicated in the Drawings, Specifications, Soils Report, and from Contractor's own investigation under Article 2.1.

3. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.

b. The District shall investigate the conditions, and if District finds that the conditions do materially so differ, do involve hazardous waste, and cause a decrease or

increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a Change Order or Construction Change Document under the procedures described in the Contract.

c. In the event that a dispute arises between the public entity or District and the Contractor whether the conditions materially differ, involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled Completion Date provided for by the Contract, but shall proceed with all Work to be performed under the Contract. The Contractor shall retain any and all rights provided either by Contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

4.6.8 Dispute Concerning Extension of Time.

If Contractor and District cannot agree upon an extension of time, whether compensable or not, then Contractor must have first completed the procedures set forth in Article 8.4. Upon completion of the procedures set forth under Article 8.4, Contractor must then comply with the requirements in this Article including those set forth under Article 4.6.9.

4.6.9 Claims Procedures

Pursuant to the remedies under Public Contract Code section 9201 and Government Code section 930.2, Contractor, through execution of this Agreement, also agrees to comply with the Claims requirements of Article 4.6 to quickly and efficiently resolve disputes. Further, to provide a level of accuracy to the records submitted, the District shall have the right to audit books and records pursuant to Article 13.11 based on the actual costs incurred and to reduce the uncertainty in resolving disputes with limited information.

4.6.9.1 *Procedure Applicable to All Claims*

a. Definition of Claim: A "Claim" is where a Dispute between the parties rises to the level where backup documentation is assembled and provided to the District as a separate demand by the Contractor for (1) time extension, (2) payment of money or damages arising from Work done by or on behalf of the Contractor pursuant to the Contract and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (3) and amount the payment of which is disputed by the District. (If the Claim is for damages associated with a DSA Stop Work Order, the Contractor shall not be entitled to a request for Compensation, but shall be entitled to utilize Governmental Delay Float (See Article 8.1.5.1.))

b. Filing Claim Is Not Basis to Discontinue Work: The Contractor shall promptly comply with Work under the Contract or Work requested by the District even though a written Claim has been filed. The Contractor and the District shall make good faith efforts to resolve any and all Claims that may arise during the performance of the Work covered by this Contract.

c. Claim Notification: The Contractor shall within seven (7) calendar days after the written decision of the Architect, or if the time period for

Architect's decision has passed under Article 4.6.1, submit a notification, in writing, with the District (and the District's CM) stating clearly the basis for the Claim. If the notification is not submitted within seven (7) days after the written decision of the Architect or the passage of time under Article 4.6.1, the Contractor shall be deemed to have waived all right to assert the Claim, and the Claim shall be denied. Claims submitted after the Retention Payment date shall also be considered null and void by the District. All Claims shall be reviewed pursuant to Articles 4.6.1 through 4.6.5.

The Formal Notification of Claim must be presented as follows:

(1) The term "Claim" must be at the top of the page in no smaller than 20 point writing.

(2) All documentation submitted pursuant to Article 4.6 to the Architect shall be submitted with the "Claim."

(3) A stack of documents, copy of all Project documents, or the submission of random documents shall not constitute an adequate reference to supporting documentation.

(4) Any additional or supporting documentation that Contractor believes is relevant should be submitted at this time.

d. Formal Claim Appeal Submission: If the Contractor does not concur with the District's decision regarding the Claim Notification, the Contractor will issue a formal Claim Appeal within fourteen (14) days of receipt of the District's decision and all detailed information in support of the Claim Appeal within thirty (30) days. All appeals shall be submitted before Retention Payment. If the Claim Appeal is not submitted within fourteen (14) calendar days and detailed information within thirty (30) days, the Contractor shall be deemed to have waived its right to assert the Claim and the Claim shall be denied. Contractor's failure to submit any detailed information which is in the possession of Contractor shall render such information inadmissible by Contractor at trial, arbitration or other legal proceeding.

e. Appeal Claim Format: The Contractor shall provide all written detailed documentation which supports the Claim, including but not limited to: arguments, justifications, cost, estimates, Schedule analysis and detailed documentation. The format of the Claim Appeal shall be as follows:

1. Cover letter.

2. Summary of factual basis of Claim and amount of Claim.

3. Summary of the basis of the Claim, including the specific clause and section under the Contract under which the Claim is made.

4. Documents relating to the Claim, including:

a. Specifications sections in question.
b. Relevant portions of the Drawings
c. Applicable Clarifications (RFI's)
d. Other relevant information, including responses that were received.
e. Contractor Analysis of Claim merit.
   (a) Contractor's analysis of any Subcontractor vendor Claims that are being passed through.
   (b) Any analysis performed by outside consultants
   (c) Any legal analysis that Contractor deems relevant
f. Break down of all costs associated with the Claim.
g. For Claims relating to time extensions, an analysis and supporting documentation evidencing any effect upon the critical path in conformance with the requirements of Article 8.4 chronology of events and related correspondence.
h. Applicable Daily Reports and logs.
   (a) If the Daily Reports or Logs are not available, lost or destroyed, there shall be a presumption that the lost documentation was unfavorable to the Contractor. See California Civil Jury Instruction 204.
i. For Claims involving overhead, cost escalation, acceleration, disruption or increased costs, a full version of job costs reports organized by category of work or Schedule of Values with budget information tracked against actual costs. Any and all supporting back-up data, including the original bid (and associated original unaltered metadata).
   (a) The metadata and bid information shall be provided confidentially and subject to a protective order to prevent dissemination to other contractors or to the public. However, the bid documentation should remain intact and available for review and inspection in case of this type of increased cost Claim.
   (b) This data on the bid shall be made available to any District attorneys or experts and shall also be utilized as evidence for any legal proceedings.
   (c) If the bid documentation is not available, lost or destroyed, there shall be a presumption that the lost bid documentation was unfavorable to the Contractor. See California Civil Jury Instruction 204.

f. Certification: The Contractor (and Subcontractors, if applicable) shall submit with the Claim a certification under penalty of perjury:

   1. That the Contractor has reviewed the Claim and that such Claim is made in good faith;

2. Supporting data are accurate and complete to the best of the Contractor's knowledge and belief;

3. The amount requested accurately reflects the amount of compensation for which the Contractor believes the District is liable.

4. That the Contractor is familiar with Government Code sections 12650 et seq. and Penal Code section 72 and that false claims can lead to substantial fines and/or imprisonment.

g. Signature of Certification: If the Contractor is not an individual, the certification shall be executed by an officer or general partner of the Contractor having overall responsibility for the conduct of the Contractor's affairs.

h. Mandatory Claim Appeal Procedure: The Contractor's Claim Appeal shall be denied if it fails to follow the requirements of this Article.

4.6.9.2 District (through CM or District's Agent or Attorney) May Request Additional Information: Within thirty (30) days of receipt of the Claim Appeal and the information under this Article, the District may request in writing any additional documentation supporting the Claim or documentation relating to defenses to the Claim which the District may assert. If additional documents are required, the time in which the Claim is evaluated may be extended by a reasonable time so the Claim and additional documents may be reviewed. *Claims Procedures in Addition to Government Code Claim.* Nothing in the Claims procedures set forth in this Article 4 of the General Conditions shall act to waive or relieve the Contractor from meeting the requirements set forth in Government Code section 900 et seq.

4.6.9.3 *Binding Arbitration of Individual Claim Issues.* To expedite resolution of Claims pursuant to Public Contract Code section 9201, at the District's sole option, the District may submit individual Claims to Arbitration prior to Retention Payment consistent with the requirements of Article 4.6.6.1.

4.6.9.4 *Resolution of Claims in Court of Competent Jurisdiction.* If Claims are not resolved under the procedure set forth and pursuant to Article 4.6.9, such Claim or controversy shall be submitted to a court in the County of the location of the Project after the Project has been completed, and not before.

4.6.9.5 *Warranties, Guarantees and Obligations.* The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon Contractor by the General Conditions and amendments thereto; and all of the rights and remedies available to District and Architect thereunder, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by laws or regulations by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this Article will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply.

ARTICLE 5
SUBCONTRACTORS

5.1 DEFINITIONS

5.1.1 Subcontractual Relations Bound to Same Contract Terms at General Contractor

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the same obligations and responsibilities, assumed by Contractor pursuant to the Contract Documents. Each subcontract agreement shall preserve and protect the rights of the District and the Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound. Upon written request of the Subcontractor, the Contractor shall identify to the Subcontractor the terms and conditions of the proposed subcontract agreement, which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

5.1.2 Subcontractor Licenses and DIR Registration

All Subcontractors shall be properly licensed by the California State Licensing Board. All Subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with the California Department of Industrial Relations and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. No portion of the Work is permitted to be performed by a Subcontractor of any tier unless the subcontractor is properly registered with DIR. Any Subcontractors of any tier not properly registered with DIR shall be substituted in accordance with Labor Code section 1771.1.

5.1.3 Substitution of Subcontractor

Substitution of Subcontractors shall be permitted only as authorized under Public Contract Code §§ 4107 et seq. Any substitutions of Subcontractors shall not result in any increase in the Contract Price or result in the granting of any extension of time for the completion of the Project.

5.1.4 Contingent Assignment of Subcontracts and Other Contracts

Each subcontract, purchase order, vendor contract or agreement for any portion of the Work is hereby assigned by the Contractor to the District provided that:

a. Such assignment is effective only after Termination of this Contract with the Contractor by the District as provided under Article 14 and only for those subcontracts and other contracts and agreements that the District accepts by notifying the Subcontractor or Materialman (as may be applicable) in writing; and

b. Such assignment is subject to the prior rights of the Surety(ies) obligated under the Payment Bond and Performance Bond.

c. The Contractor shall include adequate provisions for this contingent assignment of subcontracts and other contracts and agreements in each such document.

ARTICLE 6
CONSTRUCTION BY DISTRICT OR BY SEPARATE CONTRACTORS

6.1 DISTRICT'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 Separate Contracts.

6.1.1.1 District reserves the right to let other contracts in connection with this Work. Contractor shall afford other contractors reasonable opportunity for (1) introduction and storage of their materials; (2) access to the Work; and (3) execution of their work. Contractor shall properly connect and coordinate its work with that of other Contractors.

6.1.1.2 If any part of Contractor's Work depends on proper execution or results of any other contractor, the Contractor shall inspect and within seven (7) days or less, report to Architect, in writing, any defects in such work that render it unsuitable for proper execution of Contractor's Work. Contractor will be held accountable for damages to District for that Work which it failed to inspect or should have inspected. Contractor's failure to inspect and report shall constitute its acceptance of other contractors' Work as fit and proper for reception of its Work, except as to defects which may develop in other contractors' work after execution of the other contractor's work.

6.1.1.3 To ensure proper execution of its subsequent Work, Contractor shall measure and inspect Work already in place and shall at once report to the Architect in writing any discrepancy between executed Work as built and the Contract Documents.

6.1.1.4 Contractor shall ascertain to its own satisfaction the scope of the Project and nature of any other contracts that have been or may be awarded by District in prosecution of the Project and the potential impact of such Work on the Baseline Schedule or Schedule updates.

6.1.1.5 Nothing herein contained shall be interpreted as granting to Contractor the exclusive occupancy at the site of Project. Contractor shall not cause any unnecessary hindrance or delay to any other contractor working on the Project Site. If execution of any contract by the District is likely to cause interference with Contractor's performance of this Contract, once Contractor provides District timely written notice and identifies the Schedule Conflict, District shall decide which contractor shall cease work temporarily and which contractor shall continue, or whether Work can be coordinated so that contractors may proceed simultaneously.

6.1.1.6 District shall not be responsible for any damages suffered or extra costs incurred by Contractor resulting directly or indirectly from award or performance or attempted performance of any other contract or contracts at the Project necessary for the performance of the Project (examples include Electrical Utility Contractor, separate offsite contractor, a separate grading contractor, furniture installation etc.)

CONTRACTOR IS AWARE THAT THIS CONTRACT MAY BE SPLIT INTO SEVERAL PHASES BASED ON DOCUMENTATION PROVIDED WITH THIS BID OR DISCUSSED AT THE JOB WALK. CONTRACTOR HAS MADE ALLOWANCE FOR ANY DELAYS OR DAMAGES WHICH MAY ARISE FROM COORDINATION WITH CONTRACTORS REQUIRED FOR OTHER PHASES. IF ANY DELAYS SHOULD ARISE FROM ANOTHER CONTRACTOR WORKING ON A DIFFERENT PHASE, CONTRACTOR'S SOLE REMEDY FOR DAMAGES, INCLUDING DELAY DAMAGES, SHALL BE AGAINST THE

CONTRACTOR WHO CAUSED SUCH DAMAGE AND NOT THE DISTRICT. CONTRACTOR SHALL PROVIDE ACCESS TO OTHER CONTRACTORS FOR OTHER PHASES AS NECESSARY TO PREVENT DELAYS AND DAMAGES TO OTHER CONTRACTORS WORKING ON OTHER PHASES OF CONSTRUCTION.

6.1.2 District's Right to Carry Out the Work

See Article 2.2.

6.1.3 Designation as Contractor

When separate contracts are awarded to contractors on the Project Site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate District/Contractor Agreement.

6.1.4 District Notice to the Contractor of Other Contractors

The Contractor shall have overall responsibility to reasonably coordinate and schedule Contractor's activities with the activities of the District's forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the District in reviewing their construction schedules when:

a. Notice is provided in the Contract Documents of other scope of Work,

b. In the case where there is known Work to be performed by other Contractors

c. For outside contractors hired by utilities

d. Where the Contract Document provides "Work by Others" or "By Others"

e. Where specifically noted during the Pre-Bid Conference

f. Where specifically noted in the Mandatory Job Walk

g. By CO or ICD,

h. With respect to the installation of :
   1. Furniture,
   2. Electronics and networking equipment,
   3. Cabling,
   4. Low voltage,
   5. Off-site work,
   6. Grading (when by a separate contractor),
   7. Environmental remediation when excluded by the Contract Documents (i.e. asbestos, lead or other hazardous waste removal)
   8. Deep cleaning crews,
   9. Commissioning and testing,
   10. Keying and re-keying,
   11. Programming

6.1.4.2 Exception where no Coordination is Required on the Part of the Contractor for Turn Key Operations. If the Contractor has specifically outlined a "Turn Key" or "Complete Delivery" of a final completed operational school in writing as part of the Baseline Schedule..

6.1.4.3 The Contractor shall make any revisions to the Baseline Schedule (or Schedule Update) and Contract Sum deemed necessary after a joint review and mutual agreement. The Baseline Schedule (or Schedule Update) shall then constitute the Schedules to be used by the Contractor, separate contractors, and the District until subsequently revised. Additionally, Contractor shall coordinate with Architect, District, and Inspector to ensure timely and proper progress of Work.

6.2 CONSTRUCTIVE OWNERSHIP OF PROJECT SITE AND MATERIAL

Upon commencement of Work, the Contractor becomes the constructive owner of the entire site, improvements, material and equipment on Project site. Contractor must ensure proper safety and storage of all materials and assumes responsibility as if Contractor was the owner of the Project site. All risk of loss or damage shall be borne by Contractor during the Work until the date of Completion. As constructive owner of the Project site, Contractor must carry adequate insurance in case of calamity and is not entitled to rely on the insurance requirements as set forth in this Agreement as being adequate coverage in case of calamity.

6.3 DISTRICT'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors, and the District as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish as described in Article 3.12, the District may clean up and allocate the cost among those it deems responsible.

ARTICLE 7
CHANGES IN THE WORK

7.1 CHANGES

7.1.1 No Changes Without Authorization

There shall be no change whatsoever in the Drawings, Specifications, or in the Work without an executed Change Order, Change Order Request, Immediate Change Directive, or order by the Architect for a minor change in the Work as herein provided. District shall not be liable for the cost of any extra work or any substitutions, changes, additions, omissions, or deviations from the Drawings and Specifications unless the District's Governing Board or designated representative with delegated authority (subject to Board ratification) has authorized the same and the cost thereof approved in writing by Change Order or executed Construction Change Document. No extension of time for performance of the Work shall be allowed hereunder unless claim for such extension is made at the time changes in the Work are ordered, and such time duly adjusted in writing in the Change Order. The provisions of the Contract Documents shall apply to all such changes, additions, and omissions with the same effect as if originally embodied in the Drawings and Specifications. Notwithstanding anything to the contrary in this Article 7, all Change Orders shall be prepared and issued by the Architect and shall become effective when approved by the District's Governing Board, the Architect, and the Contractor.

Should any Change Order result in an increase in the Contract Price, the cost of such Change Order shall be agreed to, in writing, in advance by Contractor and District and be subject to the monetary limitations set forth in Public Contract Code section 20118.4 (Please check with the District since there are different interpretations of the limitations of Public Contract Code section 20118.4 depending on the County the Project is located). In the event that Contractor proceeds with any change in Work without first notifying District and obtaining the Architect's and District's consent to a Change Order, Contractor waives any Claim of additional compensation for such additional work and Contractor takes the risk that a Notice of Non-Compliance may issue, a critical path Project delay may occur, and the Contractor will also be responsible for the cost of preparation and DSA CCD review fees for a corrective DSA approved Construction Change Document.

CONTRACTOR UNDERSTANDS, ACKNOWLEDGES, AND AGREES THAT THE REASON FOR THIS NOTICE REQUIREMENT IS SO THAT DISTRICT MAY HAVE AN OPPORTUNITY TO ANALYZE THE WORK AND DECIDE WHETHER THE DISTRICT SHALL PROCEED WITH THE CHANGE ORDER OR ALTER THE PROJECT SO THAT SUCH CHANGE IN WORK BECOMES UNNECESSARY AND TO AVOID THE POSSIBLE DELAYS ASSOCIATED WITH THE ISSUANCE OF A NOTICE OF NON-COMPLIANCE.

7.1.2 Notices of Non-Compliance

Contractor deviation or changes from approved Plans and Specifications may result in the issuance of a Notice of Non-Compliance (See DSA Form 154). Contractor is specifically notified that deviations from the Plans and Specifications, whether major or minor, may result in the requirement to obtain a DSA Construction Change Document to correct the Notice of Non-Compliance. (See Article 7.3.1 for Definition of CCD). In some cases, the lack of a DSA approved CCD AND verification from the Inspector that a Notice of Non-Compliance has been corrected may result in a critical path delay to the next stage of Work on the Project. Specifically, a deviation from approved Plans and Specifications may prevent approval of the category of Work listed in the DSA 152 Project Inspection Card. Any delays that are caused

by the Contractor's deviation from approved Plans and Specifications shall be the Contractor's responsibility.

7.1.3 Architect Authority

The Architect will have authority to order minor changes in the Work that do not involve DSA Approval not involving any adjustment in the Contract Sum, or an extension of the Contract Time.

7.2 CHANGE ORDERS ("CO")

A CO is a written instrument prepared by the Architect and signed by the District (as authorized by the District's Governing Board), the Contractor, and the Architect stating their agreement upon all of the following:

a. A description of a change in the Work;

b. The amount of the adjustment in the Contract Sum, if any; and

c. The extent of the adjustment in the Contract Time, if any.

A CO may be comprised of ICD's, Response to RFP's and COR's

7.3 CONSTRUCTION CHANGE DOCUMENT (CCD Category A, and CCD Category B) and IMMEDIATE CHANGE DIRECTIVE (ICD)

7.3.1 Definitions

7.3.1.1 *Construction Change Document (CCD)*. A Construction Change Document is a DSA term that is utilized to address changes to the DSA approved Plans and Specifications. There are two types of Construction Change Documents. (1) DSA approved CCD Category A (DSA Form 140) for Work affecting structural, access compliance or fire/ life safety of the Project which will require a DSA approval; and, (2) CCD Category B (DSA Form 141) for work NOT affecting structural safety, access compliance or fire/ life safety that will not require a DSA approval (except to confirm that no approval is required);

7.3.1.2 *Immediate Change Directive (ICD)*. An Immediate Change Directive is a written order to the Contractor prepared by the Architect and signed by the District (and CM if there is a CM on the Project) and the Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The District may by ICD, without invalidating the Contract, direct immediate changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions within. If applicable, the Contract Sum and Contract Time will be adjusted accordingly.

In the case of an Immediate Change Directive being issued, Contractor must commence Work immediately or delays from failure to perform the ICD shall be the responsibility of Contractor and the failure to move forward with Work immediately shall also be grounds for Termination under Article 14.

An ICD does not automatically trigger an Article 7.6 Dispute or Claim. Contractor must timely follow the procedures outlined at Article 7.6 and 4.6 where applicable.

Refer to Division 1 and Supplementary General Conditions for a copy of the proposed Immediate Change Directive form.

7.3.2 Use to Direct Change

An ICD shall be used to move work forward immediately and to avoid delay. In some cases, an ICD shall be issued in the absence of agreement on the terms of a CO, COR, or RFP. A copy of an ICD form is provided in the Supplementary General Conditions and Division 1. The anticipated not to exceed price for the Work will be inserted into the ICD. In the case of an ICD issued to correct Contractor Deficiencies or to correct a Contractor caused Notice of Non-Compliance, the ICD may be issued with $0 and no additional time. Contract may prepare a COR associated with the ICD pursuant to Article 7. However, Contractor shall proceed with all Work required under an Approved ICD immediately upon issuance. Failure to proceed with the Work under an ICD shall be grounds for Termination for Cause under Article 14 or take over the Work under Article 2.2.

If adequate time exists, an ICD may be subject of an RFP for pricing and determination if any time that may be required. However, if an RFP is not completed, Contractor shall immediately commence Work when an ICD is issued. If the RFP is incomplete, it may still be completed to be submitted for pricing purposes as long as the RFP is submitted within the timeline provided by the RFP, or within 10 days following issuance of the ICD.

7.3.3 ICD Issued Over a Notice of Non-Compliance or to Cover Work Subject to a DSA 152 Sign Off

In some cases, an ICD shall be for the purpose of proceeding with Work to keep the Project on Schedule and as an acknowledgement by the District that Contractor is proceeding with Work contrary to a Notice of Non-Compliance, prior to issuance of a DSA approved CCD Category A, or to direct the covering of Work which has not yet received a DSA 152 Inspection Approval to move forward.

7.3.3.1 *Contractor Compliance with all Aspects of an IC*D. Contractor is to undertake the ICD and comply with all aspects of the Work outlined in the ICD. Inspector is to inspect the Work pursuant to the ICD. Failure to follow the ICD may result in deduction of the ICD Work under Article 2.2 or Termination of the Contractor pursuant to Article 14.

7.3.3.2 *Exception in the Case of DSA Issued Stop Work Order*. Contractor must proceed with an ICD even if a CCD has not been approved by DSA except in the case of a DSA issued Stop Work Order. If a DSA Stop Work Order is issued, Contractor must stop work and wait further direction from the District.

7.3.3.3 *ICD Due to Contractor Deficiency or Contractor Caused Notice of Non-Compliance.* If an ICD is issued to correct a Contractor Deficiency or a Contractor caused notice of Non-Compliance, Contractor specifically acknowledges responsibility for all consequential damages associated with the Contractor Deficiency or Contractor caused Notice of Non-Compliance and all consequential damages and costs incurred to correct the deficiency under Article 4.5

7.4 REQUEST FOR INFORMATION ("RFI")

7.4.1 Definition

A RFI is a written request prepared by the Contractor requesting the Architect to provide additional information necessary to clarify or amplify an item which the Contractor believes is not clearly

shown or called for in the Drawings or Specifications, or to address problems which have arisen under field conditions.

7.4.1.1 A RFI shall not be used as a vehicle to generate time extensions.

7.4.1.2 Resubmission of the same or similar RFI is not acceptable. RFI's that are similar should be addressed in Project meetings where the requestor (Contractor, Subcontractor or vendor) is able to address the particular issue with the Architect or Engineer and a resolution addressed in the minutes.

7.4.1.3 A RFI response applicable to a specific area cannot be extended to other situations unless specifically addressed in writing within the RFI or in a separate RFI.

7.4.1.4 RFI's should provide a proposed solution and should adequately describe the problem that has arisen.

7.4.2 Scope

The RFI shall reference all the applicable Contract Documents including Specification section, detail, page numbers, Drawing numbers, and sheet numbers, etc. The Contractor shall make suggestions and interpretations of the issue raised by the RFI. An RFI cannot modify the Contract Cost, Contract Time, or the Contract Documents.

7.4.3 Response Time

The Architect must respond to a RFI within a reasonable time after receiving such request. If the Architect's response results in a change in the Work, then such change shall be effected by a written CO, COR RFP or ICD, if appropriate. If the Architect cannot respond to the RFI within a reasonable time, the Architect shall notify the Contractor, with a copy to the Inspector and the District, of the amount of time that will be required to respond.

7.4.4 Costs Incurred

The Contractor shall be responsible for any costs incurred for professional services as more fully set forth in Article 4.5, which shall be subject to a Deductive Change Order, if an RFI requests an interpretation or decision of a matter where the information sought is equally available to the party making such request. District, at its sole discretion, shall issue a Deductive Change Order to Contractor for all such professional services arising from this Article.

7.5 REQUEST FOR PROPOSAL ("RFP")

7.5.1 Definition

A RFP is a written request prepared by the Architect (and/or CM) requesting the Contractor to submit to the District and the Architect an estimate of the effect of a proposed change on the Contract Price and (if applicable) the Contract Time. If Architect issues a Bulletin, the Changed items in the Bulletin shall be addressed as an RFP and all responses shall be prepared to a Bulletin as addressed in this Article 7.5. A form RFP is included in the Division 1 documents.

7.5.2 Scope

A RFP shall contain adequate information, including any necessary Drawings and Specifications, to enable Contractor to provide the cost breakdowns required by Article 7.7. The Contractor shall not be entitled to any Additional Compensation for preparing a response to an RFP, whether ultimately accepted or not.

7.5.3 Response Time

Contractor shall respond to an RFP within ten (10) days or the time period otherwise set forth in the RFP.

7.6 CHANGE ORDER REQUEST ("COR")

7.6.1 Definition

A COR is a written request prepared by the Contractor supported by backup documentation requesting that the District and the Architect issue a CO based upon a proposed change, cost, time, or cost and time that may be incurred on the Project or arising from an RFP, ICD, or CCD.

7.6.2 Changes in Price

A COR shall include breakdowns per Article 7.7 to validate any change in Contract Price due to proposed change or Claim.

7.6.3 Changes in Time

A COR shall also include any additional time required to complete the Project only if the delay is a critical path delay. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Project Schedule as defined in Article 8. A schedule fragnet showing the time delay must be submitted with the COR. Any changes in time will be granted only if there is an impact to the critical path. If Contractor fails to request a time extension in a COR, then the Contractor is thereafter precluded from requesting or claiming a delay.

7.7 COST OF CHANGE ORDERS

7.7.1 Scope

Within ten (10) days after a request is made for a change that impacts the Contract Sum as defined in Article 9.1, the critical path, or the Contract Time as defined in Article 8.1.1, the Contractor shall provide the District and the Architect, with a written estimate of the effect of the proposed CO upon the Contract Sum and the actual cost of construction, which shall include a complete itemized cost breakdown of all labor and material showing actual quantities, hours, unit prices, and wage rates required for the change, and the effect upon the Contract Time of such CO. Changes may be made by District by an appropriate written CO, or, at the District's option, such changes shall be implemented immediately upon the Contractor's receipt of an appropriate written Construction Change Document.

District may, as provided by law and without affecting the validity of this Agreement, order changes, modification, deletions and extra work by issuance of written CO or CCD from time to time during the progress of the Project, Contract Sum being adjusted accordingly. All such Work shall be executed under conditions of the original Agreement except that any extension of time caused thereby shall be adjusted at time of ordering such change. District has discretion to order changes on a "time and material"

basis with adjustments to time made after Contractor has justified through documentation the impact on the critical path of the Project.

7.7.1.1 *Time and Material Charges.* If the District orders Work on a "time and material" basis, timesheets shall be signed daily by the Inspector or District Representative at or near the time the Work is actually undertaken and shall show the hours worked, and the Work actually completed. No time sheets shall be signed the next day. A copy shall be provided to the Person signing the document at the time the document is signed, but not before 10 am the following day.

7.7.2 Determination of Cost

The amount of the increase or decrease in the Contract Price from a CO or COR, if any, shall be determined in one or more of the following ways as applicable to a specific situation:

a. Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation. If an agreement cannot be reached within fifteen (15) days after submission and negotiation of Contractor's proposal, Contractor may submit pursuant to Article 7.7.3. Submission of sums which have no basis in fact are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq.);

1. If the District objects to 7.7.2(a) as a method for submission due to inaccuracies in the submitted amount, overstatement of manpower or time required to perform the CO, or unreliability of the data provided, the District may either have the Architect or a professional estimator determine the cost for the CO, and the applicable time extension, or the Contractor shall utilize Article 7.7.2(d) or 7.7.3.

2. Once the District provides a written objection to use of Article 7.7.2(a) due to unreliability of the estimated price, the Contractor shall no longer utilize mutual acceptance of a lump sum as a method for submission of CO's and shall provide a breakdown of estimated or actual costs pursuant to Article 7.7.2(d) or 7.7.3.

b. By unit prices contained in Contractor's original bid and incorporated in the Project documents or fixed by subsequent agreement between District and Contractor;

c. Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee. However, in the case of disagreement, Contractor must utilize the procedure under Article 7.7.3; or

d. By cost of material and labor and percentage of overhead and profit. If the value is determined by this method the following requirements shall apply:

1. *Basis for Establishing Costs*

(1) Labor will be the cost for wages prevailing locally for each craft or type of workers at the time the extra Work is done, plus employer payments of payroll taxes and workers compensation insurance (exclude insurance costs as part of the overhead and

profit mark-up), health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State, or local laws, as well as assessments or benefits required by lawful collective bargaining agreements. In no case shall the total labor costs exceed the applicable prevailing wage rate for that particular classification. The use of a labor classification which would increase the extra Work cost will not be permitted unless the Contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for equipment rental.

(2) Materials shall be at invoice or lowest current price at which such materials are locally available and delivered to the Site in the quantities involved, plus sales tax, freight, and delivery. The District reserves the right to approve materials and sources of supply or to supply materials to the Contractor if necessary for the progress of the Work. No markup shall be applied to any material provided by the District.

(3) Tool and Equipment Rental. No payment will be made for the use of tools which have a replacement value of $250 or less.

Regardless of ownership, the rates to be used in determining equipment rental costs shall not exceed listed rates prevailing locally at equipment rental agencies or distributors at the time the Work is performed. Rates applied shall be appropriate based on actual equipment need and usage. Monthly, weekly or other extended use rates that results in the lowest cost shall be applied if equipment is used on site for extended periods.

The rental rates paid shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.

Necessary loading and transportation costs for equipment used on the extra Work shall be included. If equipment is used intermittently and, when not in use, could be returned to its rental source at less expense to the District than holding it at the Work Site, it shall be returned unless the Contractor elects to keep it at the Work Site at no expense to the District.

All equipment shall be acceptable to the Inspector, in good working condition, and suitable for the purpose for which it is to be used. Manufacturer's ratings and modifications shall be used to classify equipment, and equipment shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

If tool and equipment charges are part of a Dispute, Claim, or Appeal, the District reserves the right to utilize actual costs for tools and equipment or a depreciation rate for equipment based on audit finding

under Article 13.11 and deduct any rental charges that exceed actual or depreciated costs.

e. Other Items. The District may authorize other items which may be required on the extra work. Such items include labor, services, material, and equipment which are different in their nature from those required by the Work, and which are of a type not ordinarily available from the Contractor or any of the Subcontractors. Invoices covering all such items in detail shall be submitted with the request for payment.

f. Invoices. Vendors' invoices for material, equipment rental, and other expenditures shall be submitted with the COR. If the request for payment is not substantiated by invoices or other documentation, the District may establish the cost of the item involved at the lowest price which was current at the time of the Daily Report.

g. Overhead. Overhead, including direct and indirect costs, shall be submitted with the COR and include: field overhead, home office overhead, off-site supervision, CO preparation/negotiation/research, time delays, Project interference and disruption, additional guaranty and warranty durations, on-site supervision, additional temporary protection, additional temporary utilities, additional material handling costs, liability and property damage insurance, and additional safety equipment costs.

7.7.3 Format for COR or CO's

The following format shall be used as applicable by the District and the Contractor to communicate proposed additions to the Contract. All costs submitted shall be actual costs and labor shall be unburdened labor. Refer to Division 1 for a copy of the Construction Change Order form.

		EXTRA	CREDIT
(a)	Material (attach itemized quantity and unit cost plus sales tax)		
(b)	Labor Not to Exceed Applicable Prevailing Wage Rates (attach itemized hours and rates)		
(c)	Equipment (attach invoices)		
(d)	Subtotal		
(e)	If Subcontractor performed work, add Subcontractor's overhead and profit to portions performed by Subcontractor, not to exceed 10% of item (d).		
(f)	Subtotal		

		EXTRA	CREDIT
(g)	Contractor's Overhead and Profit: Not to exceed 10% of Item (d) if Contractor performed the work. No more than 5% of Item (d) if Subcontractor performed the work. If work was performed by Contractor and Subcontractors, portions performed by Contractor shall not exceed 10% of Item (d), and portions performed by Subcontractor shall not exceed 10% of Item (d).		
(h)	Subtotal		
(i)	Bond not to exceed one percent (1%) of Item (h)		
(k)	TOTAL		
(l)	Time/ Days		

The undersigned Contractor approves the foregoing Change Order or Immediate Change Directive as to the changes, if any, and the Contract price specified for each item and as to the extension of time allowed, if any, for completion of the entire Work on account of said Change Order or Immediate Change Directive, and agrees to furnish all labor, materials and service and perform all Work necessary to complete any additional Work specified therein, for the consideration stated herein. It is understood that said Change Order or Immediate Change Directive shall be effective when approved by the Governing Board of the District.

It is expressly understood that the value of such extra Work or changes, as determined by any of the aforementioned methods, expressly includes any and all of the Contractor's costs and expenses, both direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any costs, expenses, damages or time extensions not included are deemed waived.

The Contractor expressly acknowledges and agrees that any change in the Work performed shall not be deemed to constitute a delay or other basis for claiming additional compensation based on theories including, but not limited to, acceleration, suspension or disruption to the Project.

7.7.3.1 *Adjustment for Time and Compensable Delay*. A CO shall also include any additional time required to complete the Project. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Project Schedule as defined in Article 8 of the General Contract. A schedule fragnet showing the time delay must be submitted with the CO. Any changes in time will be granted only if there is an impact to the critical path. If Contractor fails to request a time extension in a CO, then the Contractor is thereafter precluded from requesting or claiming a delay.

7.7.4 Deductive Change Orders

All Deductive Change Order(s) must be prepared utilizing the form under Article 7.7.3 (a) – (d) only, setting forth the actual costs incurred. Except in the case of an Article 2.2 or 9.6 Deductive

Change Order where no mark-up shall be allowed, Contractor will be allowed a maximum of 5% total profit and overhead.

For unilateral Deductive Change Orders, or where credits are due from Contractor for Allowances, Deductive Items, Inspection, Damage, DSA CCD review costs, Architect or Inspector costs for after hours or corrective services, Work removed from the Agreement under Article 2.2 or Article 9.6, there shall be no mark-up.

District may, any time after a Deductive Change Order is presented to Contractor by District for items under Article 2.2 or Article 9.6 or if there is disagreement as to the Deductive Change Order, issue a unilateral Deductive Change Order on the Project and deduct the Deductive Change Order from a Progress Payment, Final Payment, or Retention.

7.7.5 Discounts, Rebates, and Refunds

For purposes of determining the cost, if any, of any change, addition, or omission to the Work hereunder, all trade discounts, rebates, refunds, and all returns from the sale of surplus materials and equipment shall accrue and be credited to the Contractor, and the Contractor shall make provisions so that such discounts, rebates, refunds, and returns may be secured, and the amount thereof shall be allowed as a reduction of the Contractor's cost in determining the actual cost of construction for purposes of any change, addition, or omissions in the Work as provided herein. All CO's are subject to Audit under Article 13.11 for discounts, rebates and refunds.

7.7.6 Accounting Records

With respect to portions of the Work performed by CO's and CCD's on a time-and-materials, unit-cost, or similar basis, the Contractor shall keep and maintain cost-accounting records in a format consistent with accepted accounting standards and satisfactory to the District, which shall be available to the District on the same terms as any other books and records the Contractor is required to maintain under the Contract Documents.

Any time and material charges shall require Inspector's signature on time and material cards showing the hours worked and the Work actually completed. See Article 7.7.1.1.

7.7.7 Notice Required

If the Contractor desires to initiate a Dispute for an increase in the Contract Price, or any extension in the Contract Time for completion, Contractor shall notify the applicable party responsible for addressing the Dispute or Claim pursuant to Article 4.6. No Claim or Dispute shall be considered unless made in accordance with this subparagraph. Contractor shall proceed to execute the Work even though the adjustment may not have been agreed upon. Any change in the Contract Price or extension of the Contract Time resulting from such Claim shall be authorized by a CO.

7.7.8 Applicability to Subcontractors

Any requirements under this Article 7 shall be equally applicable to CO's, COR's or ICD's issued to Subcontractors by the Contractor to the same extent required by the Contractor.

7.7.9 Alteration to Change Order Language

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Contractor shall not alter or reserve time in COR's, CO's or ICD's. Contractor shall execute finalized CO's and proceed under Article 7.7.7 and Article 4.6 with proper notice. If Contractor intends to reserve time without an approved CPM schedule prepared pursuant to Article 8 or without submitting a fragnet showing delay to critical path, then Contractor may be prosecuted pursuant to the False Claim Act.

ARTICLE 8
TIME AND SCHEDULE

8.1 DEFINITIONS

8.1.1 Contract Time

Contractor shall perform and reach Substantial Completion (See Article 1.1.46) within the time specified in the Agreement Form. Moreover, Contractor shall perform its Work in strict accordance with the Project Milestones in the Contract Documents and shall proceed on a properly developed and approved Baseline Schedule, which represents the Contractor's view of the practical way in which the Work will be accomplished. Note that Contract Time includes and incorporates all Float and other Baseline inclusions as noted in Article 8.3.2.1 and as otherwise specifically noted in Article 8.

8.1.2 Notice to Proceed

District may give a Notice to Proceed within ninety (90) days of the award of the bid by District. Once Contractor has received the notice to proceed, Contractor shall complete the Work in the period of time referenced in the Contract Documents.

In the event that District desires to postpone the giving of the Notice to Proceed beyond this three-month period, it is expressly understood that with reasonable notice to the Contractor, the giving of the date to proceed may be postponed by District. It is further expressly understood by Contractor, that Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of the giving of the notice to proceed

If the Contractor believes that a postponement will cause a hardship to Contractor, Contractor may terminate the Contract with written notice to District within 10 days after receipt by Contractor of District's notice of postponement. It is further understood by Contractor that in the event that Contractor terminates the Contract as a result of postponement by the District, the District shall only be obligated to pay Contractor for the Work that Contractor had performed at the time of notification of postponement and the grounds for notification and hardship shall be subject to Audit pursuant to Article 13.11. Should Contractor terminate the Contract as a result of a notice of postponement, District may award the Contract to the next lowest responsible bidder.

8.1.3 Computation of Time

The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

8.1.4 Float

Float is time the total number of days an activity may be extended or delayed without delaying the Completion Date shown in the schedule. Float will fall into three categories: (1) Rain Days; (2) Governmental Delays; and, (3) Project Float. Project Float and Rain Days are owned by the Project and may be utilized as necessary for critical path delays once the days become available for consumption (i.e. the Rain Day arrives and is not utilized since rain did not occur or Work was performed on the interior of a building). However, Governmental Delay float shall not be utilized for purposes other than to address critical path delays that arise due to approvals, Inspector approvals or verifications on governmental forms.

8.1.4.1 *Governmental Delay Float*. It is anticipated that there will be governmental generated delays. Specific to DSA approvals, it is anticipated that no less than twelve (12) days per calendar year shall be set aside as Governmental Float to be utilized on critical path delays. A pro-rated number of days shall be calculated based on length of Contract Time. (For example, a two (2) year Contract Time shall require twenty-four (24) days of Governmental Float. If the Contract Time is 182 days, then the Contract Time shall require six (6) days of Governmental Float) This Governmental Delay float must be incorporated into the schedule and should be incorporated in each critical activity as Contractor deems fit. Specifically, major categories of Work under the DSA 152 (Project Inspection Card) should be allocated Governmental Delay Float at the Contractor's discretion. Governmental Delay Float on the Project may exceed 12 days per one (1) year period, but Contractor is required to include not be less than 12 days of Governmental Delay Float during each one (1) year period.

Contractor's failure to establish a protocol for requesting inspections is not grounds to utilize Governmental Delay Float. As noted in Article 3.1.4, 48 hours advance notice of commencing Work on a new area is required after submitting form DSA 156 and under PR 13-01 Special Inspection reports are not required to be posted until at least 14 days after the Work was inspected. Failure to plan, and pay (if applicable) for quicker delivery of Special Inspections is not Governmental Delay Float under Article 8.1.4.1. If Governmental Delay Float is not utilized, this float is carried through to other DSA 152 categories of inspection and consumed over the course of the Project

Governmental Delay Float may be utilized for a DSA Stop Work Order regardless of fault as defined under Education Code section 17307.5(b).

8.1.4.2 *Inclement Weather (Rain Days)*. The Contractor will only be allowed a time extension for unusually severe weather if it results in precipitation or other conditions which in the amount, frequency, or duration is in excess of the norm at the location and time of year in question as established by NOAA weather data. No less than 22 calendar days for each calendar year for Southern California will be allotted for in the Contractor's schedule for each winter weather period or carried at the end of the schedule as Rain Float. Float for weather days in other geographical regions shall be adjusted based on NOAA weather data for the geographical location. Contractor has anticipated all the days it takes to dry out and re-prepare areas that may be affected by weather delays which extend beyond the actual weather days. The weather days shall be shown on the schedule and if not used will become float for the Project's use. The Contractor will not be allowed a day-for-day weather delay for periods noted as float in the Schedule. The Contractor is expected to work seven (7) days per week (if necessary, irrespective of inclement weather), to maintain access, and to protect the Work under construction from the effects of inclement weather. Additional days beyond the NOAA shall be considered under the same criteria that weather days are granted below.

A Rain Day shall be granted by Architect or CM if the weather prevents the Contractor from beginning Work at the usual daily starting time, or prevents the Contractor from proceeding with seventy-five (75%) of the normal labor and equipment force towards completion of the day's current controlling item on the accepted schedule for a period of at least five hours, and the crew is dismissed as a result thereof, the Architect will designate such time as unavoidable delay and grant one (1) critical path activity calendar-day extension if there is no available float for the calendar year.

8.1.4.3 *Project Float*. The Contractor may determine some activities require a lesser duration than allocated and may set aside float in the Project Schedule. There shall be no early completion. Instead, to the extent float is either addressed at the end of the Project or throughout each category of critical path work, Project float may be used as necessary during the course of the Project and allocated on a first, come first serve basis. However, the use of float does not extend to Governmental Delay Float, which shall only be used for Governmental Delays.

8.2 HOURS OF WORK

8.2.1 Sufficient Forces

Contractors and Subcontractors shall continuously furnish sufficient forces to ensure the prosecution of the Work in accordance with the Construction Schedule.

8.2.2 Performance During Working Hours

Work shall be performed during regular working hours as permitted by the appropriate governmental agency except that in the event of an emergency, or when required to complete the Work in accordance with job progress, Work may be performed outside of regular working hours with the advance written consent of the District and approval of any required governmental agencies.

8.2.3 Costs for After Hours Inspections

If the Work done after hours is required by the Contract Documents, a Recovery Schedule, or as a result of the Contractor's failure to plan, and inspection must be conducted outside the Inspector's regular working hours, the costs of any after hour inspections, shall be borne by the Contractor.

If the District allows the Contractor to do Work outside regular working hours for the Contractor's convenience, the costs of any inspections required outside regular working hours shall be invoiced to the Contractor by the District and a Deductive Change Order shall be issued from the next Progress Payment.

If the Contractor elects to perform Work outside the Inspector's regular working hours, costs of any inspections required outside regular working hours shall be invoiced to the Contractor by the District and a Deductive Change Order from the next Progress Payment as a Deductive Change Order.

8.3 PROGRESS AND COMPLETION

8.3.1 Time of the Essence

Time limits stated in the Contract Documents are of the essence to the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

8.3.2 Baseline Schedule Requirements

8.3.2.1 *Timing*: Within ten (10) calendar days after Notice to Proceed, Contractor shall submit a practical schedule showing the order in which the Contractor proposes to perform the Work, and the dates on which the Contractor contemplates starting and completing the salient categories of the Work. This first schedule which outlines the Contractor's view of the practical way in which the Work will be accomplished is the Baseline Schedule. If the Contractor Fails to submit the Baseline Schedule within the ten (10) days noted, then District may withhold processing and approval of progress payments pursuant to Article 9.4 and 9.6.

8.3.2.2 *District Review and Approval:* District, Architect and CM will review both a paper and electronic copy of Baseline Schedule and may provide comments as noted in this Article and either approve or disapprove the Baseline Schedule. All Schedules shall be prepared using an electronic scheduling program acceptable to District. All Schedules shall be delivered in an electronic format usable

by the District. All logic ties and electronic information shall be included in the electronic copy of the Baseline Schedule that is delivered to the District.

8.3.2.3 *Schedule Must Be Within the Given Contract Time.* The Baseline Schedule shall not exceed time limits set forth in the Contract Documents and shall comply with all of the scheduling requirements as set forth in the Specifications and Contract Documents.

8.3.2.4 *Submittals Must Be Incorporated (See Articles 3.7 and 3.9)*: Contractor shall include Submittals as line items in the Baseline Schedule as required under Article 3.7.2 and 3.9.6. Submittals shall not delay the Work, Milestones, or the Completion Date. Failure to include Submittals in the Baseline Schedule shall be deemed a material breach by the Contractor.

8.3.2.5 *Float Must Be Incorporated*. The Baseline Schedule must indicate the beginning and completion of all phases of construction and shall use the "critical path method" (commonly called CPM) for the value reporting, planning and scheduling, of all Work required under the Contract Documents. The Baseline Schedule must incorporate all Milestones in the Project and apply Governmental Float at each Milestone in the Contractor's discretion. The Baseline Schedule shall incorporate any Schedule provided by the District as part of the bid and shall note durations that will not be adequate or should be shortened based on Contractor's review. These changes shall be identified and incorporated into Contractor's Baseline Schedule as long as requested changes are made within 10 days after the District chooses to move forward with the Project. Scheduling is necessary for the District's adequate monitoring of the progress of the Work and shall be prepared in accordance with the time frame described in this Article 8. The Architect may disapprove of any Schedule or require modification to it if, in the opinion of the Architect or District, adherence to the any Schedule prepared by the Contractor will not cause the Work to be completed in accordance with the Agreement.

8.3.2.6 *No Early Completion.* Contractor shall not submit any Schedule showing early completion without indicating float time through the date set for Project completion by District. Contractor's Baseline Schedule shall account for all days past early completion as float which belongs to the Project. Usage of float shall not entitle Contractor to any delay Claim or damages due to delay.

8.3.2.7 *Use of Schedule Provided in Bid Documents.* In some cases, the bid will include a preliminary schedule indicating Milestones and construction sequences for the Project along with general timing for the Project. The preliminary schedule is not intended to serve as the Baseline Schedule utilized for construction. It is up to the Contractor to study and develop a Baseline Schedule to address the actual durations and sequences of Work that is anticipated while maintaining the Milestones provided by the District. Contract shall obtain information from Contractor's Subcontractors and vendors on the planning, progress, delivery of equipment, coordination, and timing of availability of Subcontractors so a practical plan of Work is fully developed and represented in the Baseline Schedule.

8.3.2.8 *Incorrect Logic, Durations, Sequences, or Critical Path.* The District may reject or indicate durations, sequences, critical path or logic are not acceptable and request changes. The electronic copy of the Baseline Schedule shall have adequate information so logic ties, duration, sequences and critical path may be reviewed electronically. Contractor is to diligently rebuild and resubmit the Baseline Schedule to represent the Contractor's plan to complete the Work and maintain Milestones at the next progress meeting, or before the next progress meeting. If Contractor is not able to build a Baseline Schedule that is acceptable to the District or Architect, the District reserves the right to utilize the unapproved originally submitted Baseline Schedule (See Article 8.3.2.12) and the comments submitted to hold Contractor accountable for timely delivery of Work and maintenance of Milestones. Furthermore, Contractor's representations in the Baseline Schedule, if unacceptable, may also be used as a basis for termination of the Contract under Article 14 if Contractor fails to adequately maintain the Schedule and

falls significantly behind without undertaking the efforts to either submit and follow a Recovery Schedule or fail to submit a Recovery Schedule and make no effort toward recovery on the Project.

8.3.2.9 *Contractor Responsibility Even if Schedule Issues Are Not Discovered.* Failure on the Part of the District to discover errors or omissions in any Schedules submitted shall not be construed to be an approval of the error or omission and any flawed Schedule is not grounds for a time extension.

8.3.2.9.1 Inclusions in Baseline Schedule. In addition to scheduling requirements set forth at Article 8.3.2, Contractor is specifically directed to include (broken out separately) in Contractor's Baseline Schedule and all Schedule updates, the following items required pursuant to these General Conditions, including but not limited to:

1. Rain Day Float (excluding inclement weather) as required under Article 8.1.4.2. For example, if the NOAA provides 22 days of Rain Days, all 22 days must be incorporated and noted in the Baseline Schedule. Further, any days required to clean-up or dry out shall be included for operations that are likely to require a clean-up or dry out period. Days that are not utilized shall be considered float owned by the Project.

2. Governmental Delay Float under Article 8.1.4.1. This Governmental Delay Float shall only be utilized for Governmental Delays and shall not be considered available float owned by the Project. This float shall only be distributed to the Project upon the completion of the Project and shall be used to offset Liquidated Damages and shall not generate compensable delays.

3. Submittal and Shop Drawing schedule under Article 3.9.

4. Deferred Approvals under Article 3.9.

5. Time for separate contractors, including furniture installation and start up activities, under Article 6.1.

6. Coordination and timing of any Drawings, approvals, notifications, permitting, connection, and testing for all utilities for the Project. Article 2.1.4.

7. Testing, special events, or school activities

8.3.2.10 *Failure to include Mandatory Schedule Items*. District may withhold payment pursuant to Articles 9.3, 9.4 and 9.6. In lieu of withholding payment for failure to include Mandatory Schedule Items, after the District or Architect has notified the Contractor of failure to meet the Baseline Schedule or Updated Schedule requirements and provided a written notification of this failure and provided a written notice of Schedule preparation errors, and the Contractor fails to correct the noted deficiencies or the Contractor does not provide an updated Baseline Schedule correcting the deficiencies, then Contractor shall not be granted an extension of time for failure to obtain necessary items and approvals under Article 8.3.2 and for the time required for failure to comply with laws, building codes, and other regulations (including Title 24 of the California Code of Regulations). Contractor shall maintain all required Article 8.3.2 Schedule items in the Baseline Schedule and indicate any days that have been used as allowed in Article 8. If Contractor fails to include all Article 8.3.2 items in its Baseline Schedule or Schedule Updates

and the District either utilizes an Unapproved Schedule under Article 8.3.2.12 or does not object to the inclusion of required scheduling items, then all mandatory Schedule inclusions, including float, shall be utilized in the District's discretion. If the Contract Time is exceeded, then Contractor shall be subject to the assessment of Liquidated Damages pursuant to Article 8.4.

8.3.2.11 *Failure to Meet Requirements*. Failure of the Contractor to provide proper Schedules as required by this Article and Article 9 is a material breach of the Contract and grounds for Termination pursuant to Article 14. The District, at its sole discretion, may choose, instead, to withhold, in whole or in part, any Progress Payments or Retention amounts otherwise payable to the Contractor.

8.3.2.12 *Use of an Unapproved Baseline Schedule*. If the Baseline Schedule submitted by the Contractor is unacceptable to the District (i.e. failing to meet the requirements of Article 8.3.2) and Contractor does not incorporate or address the written comments to the Baseline Schedule and a Baseline Schedule is not approved, but due to extreme necessity, the District moves forward without an approved Baseline Schedule, Contractor shall diligently revise and meet Schedule update requirements of Article 8 and incorporate all Article 8.3.2 comments in all updates). However, for purposes of Termination pursuant to Article 14, the unapproved Baseline Schedule initially submitted shall be treated as the Baseline Schedule with durations shortened or revised to accommodate all float, all mandatory Schedule requirements under Article 8.3.2, any requirements in the Contract Documents, and all revisions by the District or Architect.

8.3.3 Update Schedules

8.3.3.1 *Updates Shall Be Based on Approved Baseline Schedule*. Except in the case where there has not been agreement as to a Baseline Schedule, the approved Baseline Schedule shall be used to build future Schedule updates. Schedule updates shall be a CPM based Schedule consistent with the Baseline Schedule requirements of 8.3.2.

In the case that no Baseline has been approved, Schedule updates shall be provided monthly and each update shall incorporate all comments and revisions noted as not complying with the requirements of Article 8.3.2. Contractor shall be held to the Article 8.3.2.12 unapproved Baseline Schedule, inclusive of all Milestones, float, comments and revisions by the District and Architect, all required Baseline Schedule Inclusions under Article 8.3.2, and any requirements in the Contract Documents.

8.3.3.2 *Schedule Updates*. Contractor shall update the approved Schedule each month to address actual start dates and durations, the percent complete on activities, actual completion dates, estimated remaining duration for the Work in progress, estimated start dates for Work scheduled to start at future times and changes in duration of Work items

8.3.3.3 *Listing of Items Causing Delays*. Schedule updates shall provide a listing of activities which are causing delay in the progress of Work and a narrative shall be provided showing a description of problem areas, anticipated delays, and impacts on the Construction Schedule. Simply stating "District Delay" or "Architect Delay" shall be an inadequate listing. Delays shall only be listed if they meet the requirements of Article 8.4.

8.3.3.4 *Recovery Schedule*. In addition to providing a schedule update every thirty (30) days, the Contractor, if requested by the Architect or District, shall take the steps necessary to improve Contractor's progress and demonstrate to the District and Architect that the Contractor has seriously considered how the lost time, the Completion Date, or the Milestones that are required to be met within the terms of the Contract. Contractor shall immediately provide a Recovery Schedule showing how Milestones

and the Completion Date will be met. In no case, shall a Recovery Schedule be provided later than ten (10) days following the request for a Recovery Schedule from the Architect or District.

a. Failure to Provide a Recovery Schedule. Failure shall subject Contractor to the assessment of Liquidated Damages for failure to meet the Contract Time. Refusal or failure to provide a Recovery Schedule shall be considered a substantial failure of performance and a material breach of Contract and may result in Termination of the Contract pursuant to Article 14.

b. Recovery Schedule Acceleration without Additional Cost. The District may require Contractor prepare a Recovery Schedule showing how the Project shall be accelerated, without any additional cost to the District. The District may order, without additional cost, the following:

1. Increase the number of shifts;

2. Utilize overtime to recover the approved Schedule; and/or

3. Increase the days when Work occurs, including weekends, at the Project and at any manufacturer's plant.

c. Recovery Schedule Acceleration without Additional Cost. If Contractor disputes that the Recovery Schedule acceleration shall be issued without additional costs, the Contractor shall submit concurrent with Recovery Schedule acceleration notice pursuant to Articles 8.4.3 and 8.4.4.

8.4 EXTENSIONS OF TIME - LIQUIDATED DAMAGES

8.4.1 Liquidated Damages

CONTRACTOR AND DISTRICT HEREBY AGREE THAT THE EXACT AMOUNT OF DAMAGES FOR FAILURE TO COMPLETE THE WORK WITHIN THE TIME SPECIFIED IS EXTREMELY DIFFICULT OR IMPOSSIBLE TO DETERMINE. IF THE WORK IS NOT SUBSTANTIALLY COMPLETED IN THE TIME SET FORTH IN THE AGREEMENT, IT IS UNDERSTOOD THAT THE DISTRICT WILL SUFFER DAMAGES. IT BEING IMPRACTICAL AND UNFEASIBLE TO DETERMINE THE AMOUNT OF ACTUAL DAMAGE, IT IS AGREED THE CONTRACTOR SHALL PAY TO THE DISTRICT THE AMOUNT LIQUIDATED DAMAGES SET FORTH IN THE AGREEMENT, FOR EACH CALENDAR DAY OF DELAY IN REACHING SUBSTANTIAL COMPLETION (SEE ART 1.1.46). CONTRACTOR AND ITS SURETY SHALL BE LIABLE FOR THE AMOUNT THEREOF PURSUANT TO GOVERNMENT CODE SECTION 53069.85.

8.4.2 Delay

Except and only to the extent provided under Article 7 and Article 8, by signing the Agreement, Contractor agrees to bear the risk of delays to Completion of the Work and that Contractor's bid for the Project was made with full knowledge of this risk.

In agreeing to bear the risk of delays to complete the Work, Contractor understands that, except and only to the extent provided otherwise in Article 7 and 8, the occurrence of events that delay the

Work shall not excuse Contractor from its obligation to achieve Completion of the Project within the Contract Time, and shall not entitle the Contractor to an adjustment to the Contract time.

8.4.3 Excusable Delay

Contractor shall not be charged for Liquidated Damages because of any delays in completion of Work which are not the fault or negligence of Contractor or its Subcontractors, arising from Rain Float or Project Float, including acts of God, as defined in Public Contract Code section 7105, acts of enemy, epidemics and quarantine restrictions. Contractor shall within five (5) calendar days of beginning of any such delay notify District in writing of causes of delay; thereupon District shall ascertain the facts and extent of delay and grant extension of time for completing Work when, in its judgment, the findings of fact justify such an extension. Extensions of time shall apply only to that portion of Work affected by delay, and shall not apply to other portions of Work not so affected. An extension of time may only be granted after proper compliance with Article 8.3 requiring preparation and submission of a properly prepared CPM schedule.

8.4.3.1 *Excusable Delay Is Not Compensable*. No extended overhead, general conditions costs, impact costs, out-of-sequence costs or any other type of compensation, by any name or characterization, shall be paid to the Contractor for any delay to any activity not designated as a critical path item on the latest approved Project schedule.

8.4.3.2 *Notification*. The Contractor shall notify the Architect in writing of any anticipated delay and its cause, in order that the Architect may take immediate steps to prevent, if possible, the occurrence or continuance of delay, and may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the Work might be delayed thereby.

8.4.3.3 *Extension Request*. In the event the Contractor requests an extension of Contract time for unavoidable delay, such request shall be submitted in accordance with the provisions in the Contract Documents governing changes in Work (See Article 7). When requesting time, i.e., extensions, for proposed Change Orders, they must be submitted with the proposed Change Order with full justification and documentation. If the Contractor fails to submit justification with the proposed Change Order it waives its right to a time extension at a later date. Such justification must be based on the official Contract schedule as updated at the time of occurrence of the delay or execution of Work related to any changes to the scope of Work. Blanket or general claims for extra days without specific detailed information as required herein or a blanket or general reservation of rights do not fulfill the requirements of this Article and shall be denied. The justification must include, but is not limited to, the following information:

a. The duration of the activity relating to the changes in the Work and the resources (manpower, equipment, material, etc.) required to perform these activities within the stated duration.

b. Logical ties to the official Baseline Schedule or Approved Updated Schedule for the proposed changes and/or delay showing the activity/activities in the schedule whose start or completion dates are affected by the change and/or delay. (A fragment of any delay of over ten (10) days must be provided.)

The Contractor and District understand and expressly agree that insofar as Public Contract Code section 7102 may apply to changes in the Work or delays under this Contract, the actual delays and damages, if any, and time extensions are intended to, and shall provide, the exclusive and full method of compensation for changes in the Work and construction delays.

8.4.4 Notice by Contractor Required

The Contractor shall within five (5) calendar days of beginning of any such delay notify the District in writing of causes of delay with justification and supporting documentation. In the case of a Recovery Schedule pursuant to Article 8.3.3.4, Contractor shall submit written notice concurrent with the Recovery Schedule. District will then ascertain the facts and extent of the delay and grant an extension of time for completing the Work when, in its judgment, the findings of fact justify such an extension. Extensions of time shall apply only to that portion of the Work affected by the delay and shall not apply to other portions of the Work not so affected.

Claims relating to time extensions shall be made in accordance with applicable provisions of Article 7.

8.4.4.1 *Adjustment for Compensable Delays*. The Schedule may be adjusted for a delay if, and only if, Contractor undertakes the following:

a. Contractor submits a timely COR or CO pursuant to the requirements of Article 7.

b. Contractor submits a fragment showing the critical path delay caused by the COR, CO, Changed Condition, CCD, or ICD

c. Contractor has addressed all required float days in the fragment.

d. Contractor submits a complete breakdown of all costs incurred utilizing the format of Article 7.3.3

8.4.5 No Additional Compensation for Coordinating Governmental Submittals and the Resulting Work

CONTRACTOR HAS PLANNED ITS WORK AHEAD OF TIME AND IS AWARE THAT GOVERNMENTAL AGENCIES, SUCH AS THE GAS COMPANIES, ELECTRICAL UTILITY COMPANIES, WATER DISTRICTS AND OTHER AGENCIES MAY HAVE TO APPROVE CONTRACTOR PREPARED DRAWINGS OR APPROVE A PROPOSED INSTALLATION. CONTRACTOR HAS INCLUDED DELAYS AND DAMAGES WHICH MAY BE CAUSED BY SUCH AGENCIES IN CONTRACTOR'S BID AND HAS INCLUDED ADEQUATE TIME IN THE CONTRACTOR'S BASELINE SCHEDULE. FAILURE TO ADEQUATELY PLAN AND SCHEDULE IS NOT A BASIS TO USE GOVERNMENTAL DELAY FLOAT.

8.4.6 District Right to Accelerate the Work

The District may direct the Contractor to meet schedule requirements when the Work has been delayed. The District shall compensate the Contractor for the additional costs incurred by acceleration to the extent that such costs are directly attributable to the acceleration and are incurred through no fault or negligence of the Contractor.

8.4.6.1 *Management of Acceleration*. Contractor acceleration shall not include Work that is part of the scope of Work detailed in the Plans and Specifications. Instead, the acceleration costs shall be premium or overtime and quantifiable additional work added to the Project meant to accelerate the Project. Contractor is directed to keep consistent crews on the Project so time can be tracked. If crews are

circulated off the Project or crews brought in only for overtime, the District may be charged for Contract Work and not accelerated time. In such case, the District may object to the costs submitted.

8.4.6.2 *Costs for Acceleration*. Cost for Acceleration shall be supported by backup documentation, and time sheets signed by the Inspector for each day work has been performed, at or near the time when the Work was performed. A listing on the time sheet shall document all labor, materials and services utilized that day and provide areas of work, and amount of work performed. Contractor shall comply with submission requirements of Article 7.7.

ARTICLE 9
PAYMENTS AND COMPLETION

9.1 CONTRACT SUM

The Contract Sum or Contract Price is stated in the Agreement and, including authorized adjustments, is the total amount payable by the District to the Contractor for performance of the Work under the Contract Documents.

9.2 COST BREAKDOWN

9.2.1 Required Information

Contractor shall furnish the following:

a. Within ten (10) days after Notice to Proceed, a detailed breakdown of the Contract Price (hereinafter "Schedule of Values") for each Project, Site, building, Milestone or other meaningful method to measure the level of Project Completion as determined by the District shall be submitted as a Submittal for the Project.;

b. Within ten (10) days after the date of the Notice to Proceed, a schedule of estimated monthly payment requests due the Contractor showing the values and construction time of the various portions of the Work to be performed by it and by its Subcontractors or material and equipment suppliers containing such supporting evidence as to its correctness as the District may require;

c. Within ten (10) days after the date of the Notice to Proceed, address, telephone number, telecopier number, California State Contractors License number, classification and monetary value of all subcontracts for parties furnishing labor, material, or equipment for completion of the Project.

9.2.2 Information and Preparation of Schedule of Values

9.2.2.1 *Break Down of Schedule of Values*. Schedule of Values shall be broken down by Project, site, building, Milestone, or other meaningful method to measure the level of Project Completion as determined by the District.

9.2.2.2 *Based on Contractor Bid Costs.* The Schedule of Values shall be based on the costs from Contractor's bid to the District. However, the submission of the Schedule of Values shall not be front loaded so the Contractor is paid a greater value than the value of the Work actually performed and shall not shift funds from parts of the Project that are later to Work that is performed earlier.

9.2.2.3 Largest Dollar Value for Each Line Item. Identify Subcontractors and materials suppliers proposed to provide portions of Work equal to or greater than ten thousand dollars ($10,000) or one-half of one percent (0.5%) of their Contract Price, whichever is less.

9.2.2.4 *Allowances*. Any Allowances provided for in the Contract shall be a line item in the Schedule of Values.

9.2.2.5 *Labor and Materials Shall Be Separate*. Labor and Materials shall be broken into two separate line items unless specifically agreed in writing by the District.

9.2.3 District Approval Required

The District shall review all submissions received pursuant to Article 9.2 in a timely manner. All submissions must be approved by the District before becoming the basis of any payment.

9.3 PROGRESS PAYMENTS

9.3.1 Payments to Contractor

Unless there is a resolution indicating that the Work for the Project is substantially complex, within thirty-five (35) days after approval of the Request for Payment, Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of the Work performed (as certified by Architect and Inspector and verified by Contractor) up to the last day of the previous month, less the aggregate of previous payments. In the case of a Project designated substantially complex, the sum paid to the Contractor shall be equal to ninety percent (90%) of the value of the Work performed (as certified by the Architect and Inspector and verified by Contractor). The value of the Work completed shall be the Contractor's best estimate. Work completed as estimated shall be an approximation or estimate only and no mistake, inaccuracy, error or falsification in said any approved estimate shall operate to release the Contractor, or any Surety upon any bond, from damages arising from such Work, or from the District's enforcement of each and every provision of this Contract including but not limited to the Performance Bond and Payment Bond. The District shall have the right to subsequently to correct any mistake, inaccuracy, error or falsification made or otherwise set forth in any approved Request for Payment and such correction may occur in any future Payment Application or in the Retention Payment to the Contractor. No Surety upon any bond shall be relieved, released or exonerated of its obligations under this Contract or any applicable bond when the District is unable to correct an overpayment to the Contractor due to any abandonment by the Contractor or termination by the District.

The Contractor shall not be entitled to have any payment requests processed, or be entitled to have any payment made for Work performed, so long as any lawful or proper direction given by the District concerning the Work, or any portion thereof, remains incomplete.

Notwithstanding anything to the contrary stated above, the Contractor may include in its Request for Payment the value of any structural steel, glue laminated beams, trusses, bleachers and other such custom-made materials prepared specifically for the Project and unique to the Project so long as all of the following requirements are satisfied:

a. The aggregate cost of materials stored off-site shall not exceed Twenty Five Thousand Dollars ($25,000) at any time or as otherwise agreed to be District in writing;

b. Title to such materials shall be vested in the District as evidenced by documentation satisfactory in form and substance to the District, including, without limitation, recorded financing statements, UCC filings and UCC searches;

c. With each Contractor Request for Payment, the Contractor shall submit to the District a written list identifying each location where materials are stored off-site (which must be a bonded warehouse) and the value of the materials at each location. The Contractor shall procure insurance satisfactory to the District (in its reasonable discretion) for materials stored off-site in an amount not less than the total value thereof;

d. The consent of any Surety shall be obtained to the extent required prior to payment for any materials stored off-site;

e. Representatives of the District shall have the right to make inspections of the storage areas at any time; and

f. Such materials shall be: (1) protected from diversion, destruction, theft and damage to the reasonable satisfaction of the District; (2) specifically marked for use on the Project; and (3) segregated from other materials at the storage facility.

9.3.2 Purchase of Materials and Equipment and Cost Fluctuations

The Contractor is required to order, obtain, and store materials and equipment sufficiently in advance of its Work at no additional cost or advance payment from District to assure that there will be no delays. Contractor understands that materials fluctuate in value and shall have adequately addressed market fluctuations through agreements with Contractor vendors or by other means. Contractor further understands and incorporates into Contractor's bid cost any wage rate increases during the Project for the Contractor's labor force as well as all other Subcontractor and vendor labor forces. District shall not be responsible for market fluctuations in costs or labor rate increases during the Project. Contractor further has incorporated any and all cost increases in areas of Work where there may be schedule variations so that cost increases are not passed through to the District.

9.3.3 No Waiver

No payment by District hereunder shall be interpreted so as to imply that District has inspected, approved, or accepted any part of the Work. Contractor specifically understands that Title 24 Section 4-343 which states:

> "It is the duty of the contractor to complete the work covered by his or her contract in accordance with the approved Plans and Specifications therefore. The contractor in no way is relieved of any responsibility by the activities of the Architect, Engineer, Inspector or DSA in the performance of such duties... In no case, however, shall the instruction of the Architect or registered Engineer be construed to cause work to be done with is not in conformity with the approved Plans, Specifications, and change orders..."

Notwithstanding any payment, the District may enforce each and every provision of this Contract which includes, but is not limited to, the Performance Bond and Payment Bond. The District may correct any error subsequent to any payment. In no event shall the Contractor or the Surety be released or exonerated from performance under this Contract when the District overpays the Contractor based upon any mistake, inaccuracy, error or falsification in any estimate that is included in any Request for Payment.

9.3.4 Issuance of Certificate of Payment

The Architect shall, within seven (7) days after receipt of the Contractor's Application for Payment, either approve such payment or notify the Contractor in writing of the Architect's reasons for withholding approval in whole or in part as provided in Article 9.6. The review of the Contractor's Application for Payment by the Architect is based on the Architect's observations at the Project and the data comprising the Application for Payment that the Work has progressed to the point indicated and that, to the best of the Architect's knowledge, information, and belief, the quality of the Work is in accordance with the Contract Documents. In some cases, the Architect may act upon or rely on the evaluation of the

Work by the Inspector. This review of Payment Applications is sometimes called a "Pencil Draft." District's return of a Pencil Draft shall constitute the District's dispute of the Payment Application that has been submitted. Contractor shall promptly respond to Pencil Drafts or Contractor's Payment Applications may be delayed. Contractor's failure to promptly respond to a Pencil Draft shall qualify as a delay in the prompt payment of a Request for Payment or Request for Retention. The foregoing representations are subject to: (1) an evaluation of the Work for conformance with the Contract Documents, (2) results of subsequent tests and inspections, (3) minor deviations from the Contract Documents correctable prior to completion, and (4) specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute the Contractor's verified representation that the Contractor is entitled to payment in the amount certified.

9.3.5 Payment of Undisputed Contract Payments

In accordance with Public Contract Code section 7100, payments by the District to the Contractor for any and all undisputed amounts (including all Progress Payments, Final Payments or Retention Payment) is contingent upon submission of a proper and accurate Payment Application and the Contractor furnishing the District with a release of all Claims against the District related to such undisputed amounts. Disputed Contract Claims in stated amounts may be specifically excluded by the Contractor from the operation of the release. If, however, the Contractor specifically excludes any Claims, the Contractor shall provide details such as a specific number of disputed days or costs of any such exclusion in accordance with Articles 4.6 and 7.7.

9.4 APPLICATIONS FOR PROGRESS PAYMENTS

9.4.1 Procedure

9.4.1.1 *Application for Progress.* On or before the fifth (5th) day of each calendar month during the progress of the Work, Contractor shall submit to the Architect an itemized Application for Progress Payment for operations completed. Such application shall be notarized, if required, and supported by the following or such portion thereof as Architect requires:

1. The amount paid to the date of the Payment Application to the Contractor, to all its Subcontractors, and all others furnishing labor, material, or equipment for its Contract;

2. The amount being requested under the Payment Application by the Contractor on its own behalf and separately stating the amount requested on behalf of each of the Subcontractors and all others furnishing labor, material, and equipment under the Contract;

3. The balance that will be due to each of such entities after said payment is made;

4. A certification that the As-Built Drawings and Annotated Specifications are current;

5. Itemized breakdown of Work done for the purpose of requesting partial payment;

6. An updated or approved Baseline Schedule or other Schedule updates in conformance with Article 8;

7. Failure to submit an updated Schedule for the month or any previous month;

8. The additions to and subtractions from the Contract Price and Contract Time;

9. A summary of the Retention held;

10. Material invoices, evidence of equipment purchases, rentals, and other support and details of cost as the District may require from time to time;

11. The percentage of completion of the Contractor's Work by line item;

12. An updated Schedule of Values from the preceding Application for Payment;

13. Prerequisites for Progress Payments; and

14. Any other information or documents reasonably requested by the District, Architect, Inspector or CM (if applicable).

9.4.1.2 *First Payment Request.* The following items, if applicable, must be completed before the first payment request will be accepted for processing:

1. Installation of the Project sign;

2. Receipt by Architect of Submittals;

3. Installation of field office;

4. Installation of temporary facilities and fencing;

5. Submission of documents listed in the Article 9.2 relating to Contract Price breakdown;

6. Preliminary schedule analysis, due within 10 days after Notice to Proceed;

7. Contractor's Baseline Schedule (to be CPM based in conformance with Article 8);

8. Schedule of unit prices, if applicable;

9. Submittal Schedule;

10. Copies of necessary permits;

11. Copies of authorizations and licenses from governing authorities;

12. Initial progress report;

13. Surveyor qualifications;

14. Written acceptance of District's survey of rough grading, if applicable;

15. List of all Subcontractors, with names, license numbers, telephone numbers, and scope of work;

16. All bonds and insurance endorsements; and

17. Resumes of General Contractor's Project Manager, and if applicable, job site secretary, record documents recorder, and job site Superintendent.

9.4.1.3 *Second Payment Request.* The second payment request will not be processed until all Submittals and Shop Drawings have been accepted for review by the Architect.

9.4.1.4 *All Payment Requests.* No payment requests will be processed unless Contractor has submitted copies of the certified payroll records for the Work which correlates to the payment request and a proper CPM schedule pursuant to Article 8 is submitted.

9.4.1.5 *Final Payment Application (90% or 95%).* See Article 9.11.1

9.4.1.6 *Final Payment Application (100%).* See Article 9.11.3

9.5 STOP NOTICE CLAIMS AND WARRANTY OF TITLE

The Contractor warrants title to all Work. The Contractor further warrants that all Work is free and clear of liens, claims, security interests, stop notices, or encumbrances in favor of the Contractor, Subcontractors, material and equipment suppliers, or other persons or entities making a claim by reason of having provided labor, materials, and equipment relating to the Work. Failure to keep work free of liens, stop notices, claims, security interests or encumbrances is grounds to make a claim against Contractor's Payment and Performance Bond to immediately remedy and defend.

If a lien or stop notice of any nature should at any time be filed against the Work or any District property, by any entity which has supplied material or services at the request of the Contractor, Contractor and Contractor's Surety shall promptly, on demand by District and at Contractor's and Surety's own expense, take any and all action necessary to cause any such lien or stop notice to be released or discharged immediately therefrom.

If the Contractor fails to furnish to the District within ten (10) calendar days after written demand by the District, satisfactory evidence that a lien or stop notice has been so released, discharged, or secured, then District may discharge such indebtedness and deduct the amount required therefor, together with any and all losses, costs, damages, and attorney's fees and expense incurred or suffered by District from any sum payable to Contractor under the Contract. In addition, any liens, stop notices, claims, security interests or encumbrances shall trigger the indemnification requirements under Article 3.15 and the Agreement Form, and shall act as a trigger under Civil Code section 2778 and 2779 requiring reimbursement for any and all costs following the District's written demand has been made. Any withholdings by the District for stop notices in accordance with Civil Code section 9358 shall not be a basis by the Contractor to make a Claim for interest penalties under Public Contract Code sections 7107 or 20104.50.

9.6 DECISIONS TO WITHHOLD PAYMENT

9.6.1 Reasons to Withhold Payment

The District may withhold payment in whole, or in part, to the extent reasonably necessary to protect the District if, in the District's opinion, the representations to the District required by Article 9.4 cannot be made. The District may withhold payment, in whole, or in part, to such extent as may be necessary to protect the District from loss because of, but not limited to:

a. Defective Work not remedied;

b. Stop notices served upon the District;

c. Liquidated Damages assessed against the Contractor;

d. The cost of Completion of the Contract if there exists reasonable doubt that the Work can be Completed for the unpaid balance of any Contract Price or by the completion date;

e. Damage to the District or other contractor;

f. Unsatisfactory prosecution of the Work by the Contractor;

g. Failure to store and properly secure materials;

h. Failure of the Contractor to submit on a timely basis, proper and sufficient documentation required by the Contract Documents, including, without limitation, acceptable monthly progress schedules, Shop Drawings, Submittal schedules, Schedule of Values, Product Data and samples, proposed product lists, executed Change Order, Construction Change Documents, and verified reports;

i. Failure of the Contractor to maintain As-Built Drawings;

j. Erroneous estimates by the Contractor of the value of the Work performed, or other false statements in a Payment Application;

k. Unauthorized deviations from the Contract Documents (including but not limited to Unresolved Notices of Deviations (DSA Form 154));

l. Failure of the Contractor to prosecute the Work in a timely manner in compliance with established progress schedules and completion dates.;

m. Failure to properly pay prevailing wages as defined in Labor Code section 1720, et seq.;

n. Failure to properly maintain or clean up the Site;

o. Payments to indemnify, defend, or hold harmless the District;

p. Any payments due to the District including but not limited to payments for failed tests, or utilities changes or permits;

q. Failure to submit an acceptable Baseline Schedule or any Schedule or Schedule update in accordance with Article 8;

r. Failure to pay Subcontractor or suppliers as required by Article 9.8.1;

s. Failure to secure warranties, including the cost to pay for warranties;

t. Failure to provide releases from material suppliers or Subcontractors when requested to do so;

u. Items deducted pursuant to Article 2.2;

v. Incomplete Punch List items under Article 9.9.1.2 which have gone through the Article 2.2 process; or

w. Allowances that have not been used.

9.6.2 Reallocation of Withheld Amounts

District may, in its discretion, apply any withheld amount to payment of outstanding claims or obligations as defined in Article 9.6.1 and 9.5. In so doing, District shall make such payments on behalf of Contractor. If any payment is so made by District, then such amount shall be considered as a payment made under Contract by District to Contractor and District shall not be liable to Contractor for such payments made in good faith. Such payments may be made without prior judicial determination of claim or obligation. District will render Contractor an accounting of such funds disbursed on behalf of Contractor.

If Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents or fails to perform any provision thereof, District may, after ten (10) calendar days written notice to the Contractor and without prejudice to any other remedy make good such deficiencies. The District shall adjust the total Contract price by reducing the amount thereof by the cost of making good such deficiencies. If District deems it inexpedient to correct Work which is damaged, defective, or not done in accordance with Contract provisions, an equitable reduction in the Contract Price (of at least 150% of the estimated reasonable value of the nonconforming Work) shall be made therefor.

9.6.3 Payment After Cure

When the grounds for declining approval are removed, payment shall be made for amounts withheld because of them. No interest shall be paid on any retainage or amounts withheld due to the failure of the Contractor to perform in accordance with the terms and conditions of the Contract Documents.

9.7 NONCONFORMING WORK

Contractor shall promptly remove from premises all Work identified by District as failing to conform to the Contract whether incorporated or not. Contractor shall promptly replace and re-execute its own Work to comply with the Contract without additional expense to District and shall bear the expense of making good all Work of other contractors destroyed or damaged by such removal or replacement.

If Contractor does not remove such Work which has been identified by District as failing to conform to the Contract Documents within a reasonable time, fixed by written notice, District may remove it and may store the material at Contractor's expense. If Contractor does not pay expenses of such removal within ten (10) calendar days' time thereafter, District may, upon ten (10) calendar days' written notice, sell such materials at auction or at private sale and shall account for net proceeds thereof, after deducting all costs and expenses that should have been borne by Contractor.

9.8 SUBCONTRACTOR PAYMENTS

9.8.1 Payments to Subcontractors

No later than ten (10) days after receipt, or pursuant to Business and Professions Code section 7108.5, the Contractor shall pay to each Subcontractor, out of the amount paid to the Contractor on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

9.8.2 No Obligation of District for Subcontractor Payment

The District shall have no obligation to pay, or to see to the payment of, money to a Subcontractor except as may otherwise be required by law.

9.8.3 Payment Not Constituting Approval or Acceptance

An approved Request for Payment, a progress payment, a Certificate of Substantial Completion, or partial or entire use or occupancy of the Project by the District shall not constitute acceptance of Work that is not in accordance with the Contract Documents.

9.8.4 Joint Checks

District shall have the right, if necessary for the protection of the District, to issue joint checks made payable to the Contractor and Subcontractors and material or equipment suppliers. The joint check payees shall be responsible for the allocation and disbursement of funds included as part of any such joint payment. In no event shall any joint check payment be construed to create any contract between the District and a Subcontractor of any tier, any obligation from the District to such Subcontractor, or rights in such Subcontractor against the District. The District may choose to issue joint checks at District's sole discretion and only after all the requirements of that particular school district and county are specifically met. Some school districts cannot issue joint checks, so the ability to issue joint checks depends on the school district and the specific circumstances.

9.9 COMPLETION OF THE WORK

9.9.1 Close-Out Procedures

9.9.1.1 *Incomplete Punch Items.* When the Contractor considers the Work Substantially Complete (See Article 1.1.46 for definition of Substantially Complete), the Contractor shall prepare and submit to the District a comprehensive list of minor items to be completed or corrected (hereinafter "Incomplete Punch Items" or "Punch List"). The Contractor and/or its Subcontractors shall proceed promptly to complete and correct the Incomplete Punch Items listed. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. Contractor is aware that Title 24 Section 4-343(a) provides:

> "RESPONSIBILITIES. IT IS THE DUTY OF THE CONTRACTOR TO COMPLETE THE WORK COVERED BY HIS OR HER CONTRACT IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS THEREFOR. THE CONTRACTOR IN NO WAY IS RELIEVED OF ANY RESPONSIBILITY BY THE ACTIVITIES OF THE ARCHITECT, ENGINEER, INSPECTOR OR DSA IN THE PERFORMANCE OF SUCH DUTIES.

9.9.1.2 *Punch List Is Prepared Only After the Project Is Substantially Complete.* If any of the conditions noted in Article 1.1.46 as defining Substantial Completion are not met, the Inspector, Architect or District may reject Contractor's Incomplete Punch Items as premature. If the Architect and Inspector commence review of Incomplete Punch Items, all rights are reserved until the Project actually meets the definition of Substantially Complete. Liquidated Damages, warranties, and other contractual rights are not affected by Incomplete Punch Items unless otherwise addressed in these General Conditions.

Once the Inspector and the Architect determine the Project is Substantially Complete, a Certificate of Substantial Completion shall be issued. The Inspector and Architect shall prepare a Punch List of items which is an inspection report of the Work, if any, required in order to complete the Contract Documents and ensure compliance with the DSA Approved Plans so the Project may be Completed by the Contractor and a final DSA Close-Out is approved. When all Work for the Project is Complete, including Punch Lists and all Work complies with the approved Contract Documents and Change Orders, the Project has reached Final Completion.

9.9.1.3 *Time for Completion of Punch List.* Contractor shall only be given a period of no more than thirty (30) days to complete the Punch List for the Project. During the Punch List period, the Contractor's Superintendent and Project Manager shall remain engaged in the Project and shall not be removed or replaced. If the Punch List is not completed at the end of the Punch List time then Contractor shall issue a valued Punch List within 5 days after the date the Punch List time ends. If Contractor does not issue such a list, the District or Architect may issue a valued Punch List to the Contractor and withhold up to 150% of the value of the Punch List Work pursuant to Article 2.2 of this Agreement.

Failure to issue a timely written request for additional time to complete Punch List shall result in the deletion of the remaining Punch List Work pursuant to Article 2.2 and the issuance of a Deductive Change Order.

a. Extension of Time to Complete Punch List. If Contractor cannot finish the Punch List Work during the time period allotted under Article 9.9.1.3, the Contractor may make a written request for a Non-Compensable Punch List time extension accompanied by an estimate of the number of additional days it will take to complete the Punch List Work for a written consent from the District to allow continued Punch List Work. Punch List time extensions are a maximum of thirty (30) days for each request and must be accompanied by an itemized valued Punch List.

b. If there is no valued Punch List accompanying any request or if Contractor intends to undertake Punch List without the continued support and supervision of its Superintendent and Project Manager (as required under Article 3.2), the District, Construction Manager or Architect may issue a valued Punch List, reject the Punch List Time Extension and deduct 150% of the valued Punch List pursuant to Article 2.2 and proceed to Close-Out the Project. Contractor shall cease work on the Project and proceed to complete Contractor's Retention Payment Application and complete the Work for the Project required pursuant to Article 9.11.3.

9.9.1.4 *District Rejection of Written Request for Punch List Time Extensions*. Following sixty (60) Days of Punch List under Article 9.9.1.3, the District has the option of rejecting Punch List Time Extension requests. The District may proceed under Article 2.2 and deduct the value of remaining Punch List Work pursuant to Article 2.2. If the District rejects the Punch List Time Extension request then Contractor shall cease Work on the Project and proceed to Final Inspection pursuant to Article 9.11.2.

9.9.1.5 *Punch List Liquidated Damages to Compensate for Added District Project Costs.* If the total time utilized for Punch List exceeds sixty (60) days [the thirty (30) day period under Article 9.9.1.3 plus an additional thirty (30) day period that has been requested in writing], and the District grants an additional written Punch List Time Extension that exceeds sixty (60) days of Punch List, then Contactor shall be charged Liquidated Damages of at least $750 per day for continued Punch List Work to partially compensate the Inspector, Architect, and Construction Manager's extended time on the Project. This Punch List Liquidated Damage number is based on anticipated cost for an Inspector on site and additional costs for the Architect and Construction Manager to reinspect Punch List items and perform the administration of the Close-out.

Contractor received thirty (30) days without any charges for Punch List Liquidated Damages and is placed on notice pursuant to this Article 9.9.1.5 that $750 is due for each day of Punch List that exceeds sixty (60) days at $750, a cost much lower than typical (and actual) costs for Inspection, Architect and Construction Manager time required during Punch List. Starting at ninety (90) days of Punch List (an excessive number of days to complete Punch List), the District shall be entitled to adjust Punch List Liquidated Damages to an estimate of the actual costs incurred to oversee, monitor and inspect the Punch List. If costs exceed $750 per day, the anticipated extended contract charges for Inspection, Architect, Construction Manager, and any other costs that will be incurred due to the extended Punch List shall be itemized and a daily rate of Punch List Liquidated Damages shall be presented in writing to the Contractor within five (5) days following the receipt of a written request for Punch List Time Extension by the Contractor that extends the Punch List time beyond ninety (90) days. This written notice of actual Punch List Liquidated Damages may be provided to the Contractor at any time following the first written request for Punch List Time extension requested under Article 9.9.1.3. The adjusted actual Punch List Liquidated Damage amount shall be applicable as Punch List Liquidated Damages commencing on the ninetieth (90^{th}) day of Punch List.

9.9.2 Close-Out Requirements for Final Completion of the Project

a. Utility Connections. Buildings shall be connected to water, gas, sewer, and electric services, complete and ready for use. Service connections shall be made and existing services reconnected

b. As-Builts Up to Date and Complete. The intent of this procedure is to obtain an exact "As-Built" record of the Work upon completion of the project. The following information shall be carefully and correctly drawn on the prints and all items shall be accurately located and dimensioned from finished surfaces of building walls on all As-Built Drawings

1. The exact location and elevations of all covered utilities, including valves, cleanouts, etc. must be shown on As-Built Drawings

2. Contractor is liable and responsible for inaccuracies in As-Built Drawings, even though they become evident at some future date.

3. Upon completion of the Work and as a condition precedent to approval of Retention Payment, Contractor shall obtain the Inspector's approval of the "As-Built" information. When completed, Contractor shall deliver corrected sepias and/or a Diskette with an electronic file in a format acceptable to the District.

4. District may withhold the cost to hire a draftsman and potholing and testing service to complete Record As-Built Drawings at substantial cost if the Contractor does not deliver a complete set of Record As-Built Drawings. This shall result in withholding of between $10,000 to $20,000 per building that does not have a corresponding Record As Built Drawing.

c. Any Work not installed as originally indicated on approved Drawings, Specifications, Addenda and other Contract Documents.

d. All DSA Close-Out requirements (See DSA Certification Guide) Contractor is also specifically directed to Item 3.2 in the DSA Certification Guide and the applicable certificates for the DSA-311 form.

e. Submission of Form 6-C. Contractor shall be required to execute a Form 6-C as required under Title 24 Sections 4-343. The Contractor understands that the filing with DSA of a Form 6-C is a requirement to obtain final DSA Approval of the construction by Contractor and utilized to verify under penalty of perjury that the Work performed by Contractor complies with the DSA approved Contract Documents. The failure to file a DSA Form 6C has two consequences. First, the Construction of the Project will not comply with the design immunity provisions of Government Code section 830.6 and exposes the District and the individual Board members to personal liability for injuries that occur on the Project.

Secondly , under DSA IR A-20, since the Project cannot be Certified by DSA, no future or further Projects will be authorized so Contractor will have essentially condemned the campus from any future modernization or addition of new classrooms through their failure to file the DSA Form 6C.

1. *Execution of the DSA Form 6-C is Mandatory*. Refusal to execute the Form 6-C, which is a Final DSA Verified Report that all Work performed complies with the DSA approved Contract Documents is a violation of Education Code section 17312 and shall be referred to the Attorney General for Prosecution.

2. *Referral to the District Attorney for Extortion*. If the Contractor's refusal to execute the DSA Form 6C is to leverage a Dispute, Claim or Litigation, then the matter shall also be referred to the District Attorney for prosecution for extortion.

3. *Contractor shall be Responsible for All Costs to Certify the Project*. The District may certify the Project complies with Approved Plans and Specifications by utilizing the procedures under the Project Certification Guide (located at the DSA website). All costs for professionals, inspection, and testing required for an alternate Project Certification shall be the Contractor's responsibility and the District reserves its right to institute legal action against the Contractor and Contractor's Surety for all costs to certify the Project and all costs to correct Non-Compliant Work that is discovered during the Alternate Certification Process.

f. ADA Work that must be corrected to receive DSA certification. See Article 12.2.

g. Maintenance Manuals. At least thirty (30) days prior to final inspection, three (3) copies of complete operations and maintenance manuals, repair parts lists, service instructions for all electrical and mechanical equipment, and equipment warranties shall be submitted. All installation, operating, and maintenance information and Drawings shall be bound in 8½" x 11" binders. Provide a table of contents in front and all items shall be indexed with tabs. Each manual shall also contain a list of Subcontractors, with their addresses and the names of persons to contact in cases of emergency. Identifying labels shall provide names of manufactures, their addresses, ratings, and capacities of equipment and machinery.

1. Maintenance manuals shall also be delivered in electronic media for the Project. Any demonstration videos shall also be provided on electronic media.

h. Inspection Requirements. Before calling for final inspection, Contractor shall determine that the following Work has been performed:

1. The Work has been completed;

2. All fire/ life safety items are completed and in working order;

3. Mechanical and electrical Work complete, fixtures in place, connected and tested;

4. Electrical circuits scheduled in panels and disconnect switches labeled;

5. Painting and special finishes complete;

6. Doors complete with hardware, cleaned of protective film relieved of sticking or binding and in working order;

7. Tops and bottoms of doors sealed;

8. Floors waxed and polished as specified;

9. Broken glass replaced and glass cleaned;

10. Grounds cleared of Contractor's equipment, raked clean of debris, and trash removed from Site;

11. Work cleaned, free of stains, scratches, and other foreign matter, replacement of damaged and broken material;

12. Finished and decorative work shall have marks, dirt and superfluous labels removed;

13. Final cleanup, as in Article 3.12;

14. All Work pursuant to Article 9.11; and

15. Furnish a letter to District stating that the District's Representative or other designated person or persons have been instructed in working characteristics of mechanical and electrical equipment.

9.9.3 Costs of Multiple Inspections

More than two (2) requests of the District to make inspections required under Article 9.9.1 shall be considered an additional service of Architect, Inspector, Engineer or other consultants shall be the Contractor's responsibility pursuant to Article 4.5 and all subsequent costs will be prepared as a Deductive Change Order.

9.10 PARTIAL OCCUPANCY OR USE

9.10.1 District's Rights

The District may occupy or use any completed or partially completed portion of the Work at any stage. The District and the Contractor shall agree in writing to the responsibilities assigned to each of them for payments, security, maintenance, heat, utilities, damage to the Work, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents. If District and Contractor cannot agree as to responsibilities such disagreement shall be resolved pursuant to Article 4.6. When the Contractor considers a portion complete, the Contractor shall prepare and submit a Punch List to the District as provided under Article 9.9.1.

9.10.2 Inspection Prior to Occupancy or Use

Immediately prior to such partial occupancy or use, the District, the Contractor, and the Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

9.10.3 No Waiver

Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

9.11 COMPLETION AND FINAL PAYMENT

9.11.1 Final Payment (90% Billing if Substantially Complex Finding is made and 95% Billing if No Finding is Made)

The following items must be completed before the Final Payment Application will be accepted for processing at Substantial Completion of the Project:

a. Inspector sign-off of each item in the DSA 152 Project Inspection Card;

b. The Project has reached the Punch List items under Article 9.9.1.2 and the Project has been determined to be Substantially Complete under Article 1.1.28;

c. Removal of temporary facilities and services;

d. Testing, adjusting and balance records are complete;

e. Removal of surplus materials, rubbish, and similar elements;

f. Changeover of door locks;

g. Deductive items pursuant to Article 9.6 and Article 2.2; and,

h. Completion and submission of all final Change Orders for the Project.

9.11.2 Final Inspection (Punch List Completion)

Contractor shall comply with Punch List procedures under Article 9.9.1.1, and maintain the presence of Project Superintendent and Project Manager (not replacement project superintendent or project manager) until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Contractor demobilize its forces prior to completion of the Punch List.

Upon completion of the Work under Article 9.9.1, the Contractor shall notify the District and Architect, who shall again inspect such Work. If the Architect and the District find the Work contained in the Punch List acceptable under the Contract Documents, the Work shall have reached Final Completion. Architect shall notify Contractor, who shall then submit to the Architect its Application for Retention Payment. This Application for Retention Payment shall contain any deductions under Article 9.6, including but not limited to incomplete Punch List items under Article 9.9.1.

Upon receipt and approval of Application for Retention Payment, the Architect shall issue a Form 6 stating that to the best of its knowledge, information, and belief, and on the basis of its observations, inspections, and all other data accumulated or received by the Architect in connection with the Work, such Work has been completed in accordance with the Contract Documents. The District shall thereupon inspect such Work and either accept the Work as complete or notify the Architect and the Contractor in writing of reasons why the Work is not complete. Upon acceptance of the Work of the Contractor as fully complete (which, absent unusual circumstances, will occur when the Punch List items have been satisfactorily completed), the District shall record a Notice of Completion with the County Recorder, and the Contractor shall, upon receipt of payment from the District, pay the amounts due Subcontractors.

If the Architect and the District find that the Work contained in the Punch List is unacceptable, then Contractor shall issue a valued Punch List within 5 days after the date the Punch List time ends. If Contractor does not issue such a list, the District or Architect may issue a valued Punch List to the Contractor and withhold up to 150% of the value of the Punch List Work pursuant to Article 2.2 of this Agreement.

9.11.3 Retainage (100% Billing for the Entire Project)

The retainage, less any amounts disputed by the District or which the District has the right to withhold pursuant to the Contract Documents (including but not limited to incomplete Punch List items under Article 9.9.1), shall be paid after approval by the District of the Application for Retention Payment, after the satisfaction of the conditions set forth in Article 9, the Final Inspection under Article 9.11.2 is completed, and after thirty-five (35) days after the acceptance of the Work and recording of the Notice of Completion by District. No interest shall be paid on any retainage, or on any amounts withheld due to a failure of the Contractor to perform, in accordance with the terms and conditions of the Contract Documents, except as provided to the contrary in any escrow agreement between the District and the Contractor.

a. Procedures for Application for Retention Payment. The following conditions must be fulfilled prior to release of Retention Payment:

1. A full and final waiver or release of all stop notices in connection with the Work shall be submitted by Contractor, including a release of stop notice in recordable form, together with (to the extent permitted by law) a copy of the full and final release of all Stop Notice rights.

2. The Contractor shall have made all corrections, including all Punch List Items, to the Work which are required to remedy any defects therein, to obtain compliance with the Contract Documents or any requirements of applicable codes and ordinances, or to fulfill any of the orders or directions of District required under the Contract Documents.

3. Each Subcontractor shall have delivered to the Contractor all written guarantees, warranties, applications, releases from the Surety and warranty bonds (if applicable) required by the Contract Documents for its portion of the Work.

4. Contractor must have completed all requirements set forth in Article 9.9

5. Contractor must have issued a Form 6C for the Project.

6. The Contractor shall have delivered to the District all manuals and materials required by the Contract Documents.

7. The Contractor shall have completed final clean up as required by Article 3.12

8. Contractor shall have all deductive items under Article 9.6 and Article 2.2 submitted as part of the Retention Payment.

9.11.4 Recording of a Notice of Completion After Punch List Period and Final Inspection.

When the Work, or designated portion thereof, is complete or the District has completed the Article 9.6 and/or the Article 2.2 process, whichever occurs first, the District will file either a Notice of Completion or a Notice of Completion noting valued Punch List items. Valued Punch List items will be deducted from the Retention Payment.

During the time when Work is being performed on the Punch List, the Project does not meet the definition of "Complete" under Public Contract Code section 7107(c)(1) even if there is "beneficial occupancy" of the Project since that has been no "cessation of labor" on the Project. Completion of Punch List under this Article is not "testing, startup, or commissioning by the public entity or its agent." In other words, the continuing Punch List Work is Contractor labor on the Project until each and every item of Punch List Work is complete or the time periods under Article 9.9.1 have expired.

9.11.5 Warranties

Warranties required by the Contract Documents shall commence on the date of Completion of the entire Work. Warranty periods DO NOT commence at Substantial Completion or when a particular

Subcontractor work is complete. No additional charges, extras, Change Orders, or Claims may be sought for warranties commencing from the Notice of Completion.

District shall have the right to utilize equipment, test, and operate as necessary for acclimation, or testing without voiding or starting warranties. Taking beneficial occupancy shall not start warranties except in the case where the District agrees, in writing, that warranties shall commence running or where the District is taking phased occupancy of specific buildings or areas and completes separate Punch Lists as further addressed in Article 4.2.7.

9.11.6 Time for Submission of Application for Final Payment and Retention Payment (Unilateral Processing of Final and Retention Payment Application).

If Contractor submits a Final Payment Application which fails to include deductive items under Article 9.6, the District or Architect shall note this defective request for Final Payment Application. The Contractor shall be notified that specific deductive items shall be included in the Final Payment Application. If Contractor either continues to submit the Final Payment Application without deductive items under Article 9.6, or a period of 14 calendar days passes after Contractor is provided written notice of deductive items for inclusion in Final Payment Application, then District may either alter the Final Payment Application and recalculate the math on the Final Payment Application to address the Article 9.6 deductive items or process a unilateral Final Payment Application.

9.11.7 Unilateral Release of Retention

After the recordation of the Notice of Completion, or within sixty (60) days following the completion of the Punch List or the expiration of the time for completion of Punch List under Article 9.9.1, if Contractor does not make an Application for Release of Retention, the District may unilaterally release retention less any deducts under Article 9.6 and/or Article 2.2, withholds due to stop notices, or withholdings due to other defective Work on the Project. District may also choose to unilaterally release Retention after deduction of 150% of any disputed items, which may also include items under Article 9.6 and 2.2. If a deduction pursuant to Article 9.6 is made from Retention, a letter deducting specific valued items shall be considered a notice of Default under the terms of the Escrow Agreement.

9.12 SUBSTITUTION OF SECURITIES

The District will permit the substitution of securities in accordance with the provisions of Public Contract Code section 22300 as set forth in the form contained in the Bid Documents.

ARTICLE 10
PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Contractor Responsibility

The Contractor shall be responsible for all damages to persons or property that occur as a result of its fault or negligence in connection with the prosecution of this Contract and shall take all necessary measures and be responsible for the proper care and protection of all materials delivered and Work performed until completion and final acceptance by the District. All Work shall be solely at the Contractor's risk, with the exception of damage to the Work caused by "acts of God" as defined in Public Contract Code section 7105(b)(2).

Contractor shall take, and require Subcontractor to take, all necessary precautions for safety of workers on the Work and shall comply with all applicable federal, state, local and other safety laws, standards, orders, rules, regulations, and building codes to prevent accidents or injury to persons on, about, or adjacent to premises where Work is being performed and to provide a safe and healthful place of employment. In addition to meeting all requirements of OSHA, Cal-OSHA, state, and local codes, Contractor shall furnish, erect and properly maintain at all times, as directed by District or Architect or required by conditions and progress of Work, all necessary safety devices, safeguards, construction canopies, signs, audible devices for protection of the blind, safety rails, belts and nets, barriers, lights, and watchmen for protection of workers and the public, and shall post danger signs warning against hazards created by such features in the course of construction. Contractor shall designate a responsible member of its organization on the Work, whose duty shall be to post information regarding protection and obligations of workers and other notices required under occupational safety and health laws, to comply with reporting and other occupational safety requirements, and to protect the life, safety and health of workers. The name and position of person so designated shall be reported to District by Contractor. Contractor shall correct any violations of safety laws, rules, orders, standards, or regulations. Upon the issuance of a citation or notice of violation by the Division of Occupational Safety and Health, such violation shall be corrected promptly.

10.1.2 Subcontractor Responsibility

Contractor shall require that Subcontractors participate in, and enforce, the safety and loss prevention programs established by the Contractor for the Project, which will cover all Work performed by the Contractor and its Subcontractors. Each Subcontractor shall designate a responsible member of its organization whose duties shall include loss and accident prevention, and who shall have the responsibility and full authority to enforce the program. This person shall attend meetings with the representatives of the various Subcontractors employed to ensure that all employees understand and comply with the programs.

10.1.3 Cooperation

All Subcontractors and material or equipment suppliers shall cooperate fully with Contractor, the District, and all insurance carriers and loss prevention engineers.

10.1.4 Accident Reports

Subcontractors shall immediately, within two (2) days, report in writing to the Contractor all accidents whatsoever arising out of, or in connection with, the performance of the Work, whether on or off the Site, which caused death, personal injury, or property damage, giving full details and statements of

witnesses. In addition, if death or serious injuries or serious damages are caused, the accident shall be reported within four (4) days by telephone or messenger. Contractor shall thereafter immediately, within two (2) days, report the facts in writing to the District and the Architect giving full details of the accident.

10.1.5 First-Aid Supplies at Site

The Contractor will provide and maintain at the Site first-aid supplies which complies with the current Occupational Safety and Health Regulations.

10.1.6 Material Safety Data Sheets and Compliance with Proposition 65

Contractor is required to have material safety data sheets available in a readily accessible place at the job site for any material requiring a material safety data sheet per the Federal "hazard communication" standard, or employees' "right-to-know law." The Contractor is also required to properly label any substance brought into the job site, and require that any person working with the material, or within the general area of the material, is informed of the hazards of the substance and follows proper handling and protection procedures.

Contractor is required to comply with the provisions of California Health and Safety Code section 25249, et seq., which requires the posting and giving of notice to persons who may be exposed to any chemical known to the State of California to cause cancer. The Contractor agrees to familiarize itself with the provisions of this Section, and to comply fully with its requirements.

10.1.7 Non-Utilization of Asbestos Material

NO ASBESTOS OR ASBESTOS-CONTAINING PRODUCTS SHALL BE USED IN THIS CONSTRUCTION OR IN ANY TOOLS, DEVICES, CLOTHING, OR EQUIPMENT USED TO EFFECT THIS CONSTRUCTION.

Asbestos and/or asbestos-containing products shall be defined as all items containing, but not limited to, chrysotile, amosite, anthophyllite, tremolite, and antinolite.

Any or all material containing greater than one-tenth of one percent (>.1%) asbestos shall be defined as asbestos-containing material.

All Work or materials found to contain asbestos or Work or material installed with asbestos-containing equipment will be immediately rejected and this Work will be removed at no additional cost to the District.

Decontamination and removal of Work found to contain asbestos or Work installed with asbestos-containing equipment shall be done only under supervision of a qualified consultant, knowledgeable in the field of asbestos abatement and accredited by the Environmental Protection Agency.

The asbestos removal contractor shall be an EPA accredited contractor qualified in the removal of asbestos and shall be chosen and approved by the asbestos consultant, who shall have sole discretion and final determination in this matter.

The asbestos consultant shall be chosen and approved by the District, who shall have sole discretion and final determination in this matter.

The Work will not be accepted until asbestos contamination is reduced to levels deemed acceptable by the asbestos consultant.

Interface of Work under this Contract with Work containing asbestos shall be executed by the Contractor at his risk and at his discretion, with full knowledge of the currently accepted standards, hazards, risks, and liabilities associated with asbestos work and asbestos-containing products. By execution of this Contract, the Contractor acknowledges the above and agrees to hold harmless District and its assigns for all asbestos liability which may be associated with this work and agrees to instruct his employees with respect to the above-mentioned standards, hazards, risks, and liabilities.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 The Contractor

The Contractor shall take reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury, or loss to:

a. Employees on the Work and other persons who may be affected thereby;

b. The Work, material, and equipment to be incorporated therein, whether in storage on or off the Site, under the care, custody, or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and

c. Other property at the Site or adjacent thereto such as trees, shrubs, lawns, walks, pavement, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

Contractor is constructive owner of Project site as more fully discussed in Article 6.2.

10.2.2 Contractor Notices

The Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on the safety of persons or property or their protection from damage, injury, or loss.

10.2.3 Safety Barriers and Safeguards

The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.

10.2.4 All barriers covering the parameter of the work site must contain opaque windscreens. Use or Storage of Hazardous Material

When use or storage of explosives, other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel. The Contractor shall notify the District any time that explosives or hazardous materials are expected to be stored on Site. Location of storage shall be coordinated with the District and local fire authorities.

10.2.5 Protection of Work

The Contractor and Subcontractors shall continuously protect the Work, the District's property, and the property of others, from damage, injury, or loss arising in connection with operations under the Contract Documents. The Contractor and Subcontractors, at their own expense, shall make good any such damage, injury, or loss, except such as may be solely due to, or caused by, agents or employees of the District.

The Contractor, at Contractor's expense, will remove all mud, water, or other elements as may be required for the proper protection and prosecution of its Work.

Contractor shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations. All permits, licenses, or inspection fees required for such repair Work shall be obtained and paid for by Contractor.

10.2.6 Requirements for Existing Sites

Contractor shall (unless waived by the District in writing):

a. When performing construction on existing sites, become informed and take into specific account the maturity of the students on the Site; and perform Work which may interfere with school routine before or after school hours, enclose working area with a substantial barricade, and arrange Work to cause a minimum amount of inconvenience and danger to students and faculty in their regular school activities. The Contractor shall comply with Specifications and directives of the District regarding the timing of certain construction activities in order to avoid unnecessary interference with school functioning.

b. Avoid performing any Work that will disturb students during testing.

c. Provide substantial barricades around any shrubs or trees indicated to be preserved.

d. Deliver materials to building area over route designated by Architect.

e. Take preventive measures to eliminate objectionable dust, noise, or other disturbances.

f. Confine apparatus, the storage of materials, and the operations of workers to limits indicated by law, ordinances, permits or directions of Architect; and not interfere with the Work or unreasonably encumber premises or overload any structure with materials; and enforce all instructions of District and Architect regarding signs, advertising, fires, and smoking and require that all workers comply with all regulations while on the Project site.

g. Take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed by accident, they shall be replaced by an approved land surveyor or civil engineer and all maps and records required therefrom shall be filed with county

and local authorities, at no cost to the District. All filing and plan check fees shall be paid by Contractor.

h. Provide District on request with Contractor's written safety program and safety plan for each site.

10.2.7 Shoring and Structural Loading

The Contractor shall not impose structural loading upon any part of the Work under construction or upon existing construction on or adjacent to the Site in excess of safe limits, or loading such as to result in damage to the structural, architectural, mechanical, electrical, or other components of the Work. The design of all temporary construction equipment and appliances used in construction of the Work and not a permanent part thereof, including, without limitation, hoisting equipment, cribbing, shoring, and temporary bracing of structural steel, is the sole responsibility of the Contractor. All such items shall conform with the requirements of governing codes and all laws, ordinances, rules, regulations, and orders of all authorities having jurisdiction. The Contractor shall take special precautions, such as shoring of masonry walls and temporary tie bracing of structural steel Work, to prevent possible wind damage during construction of the Work. The installation of such bracing or shoring shall not damage the Work in place or the Work installed by others. Any damage which does occur shall be promptly repaired by the Contractor at no cost to the District.

10.2.8 Conformance within Established Limits

The Contractor and Subcontractors shall confine their construction equipment, the storage of materials, and the operations of workers to the limits indicated by laws, ordinances, permits, and the limits established by the District or the Contractor, and shall not unreasonably encumber the premises with construction equipment or materials.

10.2.9 Subcontractor Enforcement of Rules

Subcontractors shall enforce the District's and the Contractor's instructions, laws, and regulations regarding signs, advertisements, fires, smoking, the presence of liquor, and the presence of firearms by any person at the Site.

10.2.10 Site Access

The Contractor and the Subcontractors shall use only those ingress and egress routes designated by the District, observe the boundaries of the Site designated by the District, park only in those areas designated by the District, which areas may be on or off the Site, and comply with any parking control program established by the District, such as furnishing license plate information and placing identifying stickers on vehicles.

10.2.11 Security Services.

The Contractor shall be responsible for providing security services for the Site as needed for the protection of the Site and as determined in the District's sole discretion.

10.3 EMERGENCIES

10.3.1 Emergency Action

In an emergency affecting the safety of persons or property, the Contractor shall take any action necessary, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 7.

10.3.2 Accident Reports

The Contractor shall promptly report in writing to the District all accidents arising out of or in connection with the Work, which caused death, personal injury, or property damage, giving full details and statements of any witnesses in conformance with Article 10.1.4. In addition, if death, serious personal injuries, or serious property damages are caused, the accident shall be reported in accordance with Article 10.1.4, immediately by telephone or messenger to the District.

10.4 HAZARDOUS MATERIALS

10.4.1 Discovery of Hazardous Materials

In the event the Contractor encounters or suspects the presence on the job site of material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), or any other material defined as being hazardous by § 25249.5 of the California Health and Safety Code, which has not been rendered harmless, the Contractor shall immediately stop Work in the area affected and report the condition to the District and the Architect in writing, whether or not such material was generated by the Contractor or the District. The Work in the affected area shall not thereafter be resumed, except by written agreement of the District and the Contractor, if in fact the material is asbestos, polychlorinated biphenyl (PCB), or other hazardous material, and has not been rendered harmless. The Work in the affected area shall be resumed only in the absence of asbestos, polychlorinated biphenyl (PCB), or other hazardous material, or when it has been rendered harmless by written agreement of the District and the Contractor.

10.4.2 Hazardous Material Work Limitations

In the event that the presence of hazardous materials is suspected or discovered on the Site (except in cases where asbestos and other hazardous material Work in the Contractor's responsibility), the District shall retain an independent testing laboratory to determine the nature of the material encountered and whether corrective measures or remedial action is required. The Contractor shall not be required pursuant to Article 7 to perform without consent any Work in the affected area of the Site relating to asbestos, polychlorinated biphenyl (PCB), or other hazardous material, until any known or suspected hazardous material has been removed, or rendered harmless, or determined to be harmless by District, as certified by an independent testing laboratory and approved by the appropriate government agency.

10.4.3 Indemnification by Contractor for Hazardous Material Caused by Contractor

In the event the hazardous materials on the Project Site is caused by the Contractor, the Contractor shall pay for all costs of testing and remediation, if any, and shall compensate the District for any additional costs incurred as a result of Contractor's generation of hazardous material on the Project Site. In addition, the Contractor shall defend, indemnify and hold harmless District and its agents, officers, and employees from and against any and all claims, damages, losses, costs and expenses incurred in connection with, arising out of, or relating to, the presence of hazardous material on the Project Site.

10.4.4 Terms of Hazardous Material Provision

GENERAL CONDITIONS

The terms of this Hazardous Material provision shall survive the completion of the Work and/or any termination of this Contract.

ARTICLE 11
INSURANCE AND BONDS

11.1 CONTRACTOR'S LIABILITY INSURANCE

11.1.1 Insurance Requirements

Before the commencement of the Work, the Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in California with a financial rating of at least an A-VIII status as rated in the most recent edition of Best's Insurance Reports or as amended by the Supplementary General Conditions, such insurance as will protect the District from claims set forth below, which may arise out of or result from the Contractor's Work under the Contract and for which the Contractor may be legally liable, whether such Work are by the Contractor, by a Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Any required insurance shall not contain any exclusion that applies to the type of work performed by the Contractor under the Contract Documents.

a. Claims for damages because of bodily injury, sickness, disease, or death of any person District would require indemnification and coverage for employee claim;

b. Claims for damages insured by usual personal injury liability coverage, which are sustained by a person as a result of an offense directly or indirectly related to employment of such person by the Contractor or by another person;

c. Claims for damages because of injury or destruction of tangible property, including loss of use resulting therefrom, arising from operations under the Contract Documents;

d. Claims for damages because of bodily injury, death of a person, or property damage arising out of the ownership, maintenance, or use of a motor vehicle, all mobile equipment, and vehicles moving under their own power and engaged in the Work;

e. Claims involving contractual liability applicable to the Contractor's obligations under the Contract Documents, including liability assumed by and the indemnity and defense obligations of the Contractor and the Subcontractors; and

f. Claims involving Completed Operations, Independent Contractors' coverage, and Broad Form property damage, without any exclusions for collapse, explosion, demolition, underground coverage, and excavating. (XCU)

g. Claims involving sudden or accidental discharge of contaminants or pollutants.

11.1.2 Specific Insurance Requirements

Contractor shall take out and maintain and shall require all Subcontractors, if any, whether primary or secondary, to take out and maintain:

Comprehensive General Liability Insurance with a combined single limit per occurrence of not less than $2,000,000.00 or Commercial General Liability Insurance which provides limits of not less than:

(a)	Per occurrence (combined single limit)	$2,000,000.00
(b)	Project Specific Aggregate (for this Project only)	$2,000,000.00
(c)	Products and Completed Operations (aggregate)	$2,000,000.00
(d)	Personal and Advertising Injury Limit	$1,000,000.00

Insurance Covering Special Hazards

The following Special hazards shall be covered by riders or riders to above mentioned public liability insurance or property damage insurance policy or policies of insurance, in amounts as follows:

(a)	Automotive and truck where operated in amounts	$1,000,000.00
(b)	Material Hoist where used in amounts	$1,000,000.00
(c)	Explosion, Collapse and Underground (XCU coverage)	$1,000,000.00
(d)	Hazardous Materials	$1,000,000.00

In addition, provide Excess Liability Insurance coverage in the amount of Four Million Dollars ($4,000,000.00).

11.1.3 Subcontractor Insurance Requirements

The Contractor shall require its Subcontractors to take out and maintain public liability insurance and property damage insurance required under Article 11.1 in like amounts. A "claims made" or modified "occurrence" policy shall not satisfy the requirements of Article 11.1 without prior written approval of the District.

11.1.4 Additional Insured Endorsement Requirements

The Contractor shall name, on any policy of insurance required under Article 11.1, the District, CM, Architect, Inspector, the State of California, their officers, employees, agents, volunteers and independent contractors as additional insureds. Subcontractors shall name the Contractor, the District, Architect, Inspector, the State of California, their officers, employees, agents, volunteers and independent contractors as additional insureds. The Additional Insured Endorsement included on all such insurance policies shall be an ISO CG 20 10 (04/13), or an ISO CG 20 38 (04/13), or their equivalent as determined by the District in its sole discretion, and must state that coverage is afforded the additional insured with

respect to claims arising out of operations performed by or on behalf of the insured. If the additional insureds have other insurance which is applicable to the loss, such other insurance shall be on an excess or contingent basis. The insurance provided by the Contractor pursuant to 11.1 must be designated in the policy as primary to any insurance obtained by the District. The amount of the insurer's liability shall not be reduced by the existence of such other insurance.

11.2 WORKERS' COMPENSATION INSURANCE

During the term of this Contract, the Contractor shall provide workers' compensation and employer's liability insurance for all of the Contractor's employees engaged in Work under this Contract on or at the Site of the Project and, in case any of the Contractor's Work is subcontracted, the Contractor shall require the Subcontractor to provide workers' compensation insurance for all the Subcontractor's employees engaged in Work under the subcontract. Any class of employee or employees not covered by a Subcontractor's insurance shall be covered by the Contractor's insurance. In case any class of employees engaged in Work under this Contract on or at the Site of the Project is not protected under the Workers' Compensation laws, the Contractor shall provide or cause a Subcontractor to provide insurance coverage for the protection of those employees not otherwise protected. The Contractor shall file with the District certificates of insurance as required under Article 11.6 and in compliance with Labor Code § 3700.

Workers' compensation limits as required by the Labor Code, but not less than $1,000,000 and employers' liability limits of $1,000,000 per accident for bodily injury or disease.

11.3 BUILDER'S RISK/ "ALL RISK" INSURANCE

The District Provides Builder's Risk Insurance.

11.3.1 Course-of-Construction Insurance Requirements

The Contractor, during the progress of the Work and until final acceptance of the Work by District upon completion of the entire Contract, shall maintain Builder's Risk, Course of Construction or similar first party property coverage issued on a replacement cost value basis consistent with the total replacement cost of all insurable Work and the Project included within the Contract Documents. Coverage is to insure against all risks of accidental direct physical loss, and must include, by the basic grant of coverage or by endorsement, the perils of vandalism, malicious mischief (both without any limitation regarding vacancy or occupancy), fire, sprinkler leakage, civil authority, sonic boom, earthquake, flood, collapse, wind, lightning, smoke and riot. The coverage must include debris removal, demolition, increased costs due to enforcement of building ordinance and law in the repair and replacement of damage and undamaged portions of the property, and reasonable costs for the Architect's and engineering services and expenses required as a result of any insured loss upon the Work and Project which is the subject of the Contract Documents, including completed Work and Work in progress, to the full insurable value thereof. Such insurance shall include the District and the Architect as additional named insureds, and any other person with an insurable interest as designated by the District.

The Contractor shall submit to the District for its approval all items deemed to be uninsurable. The risk of the damage to the Work due to the perils covered by the "Builder's Risk/All Risk" Insurance, as well as any other hazard which might result in damage to the Work, is that of the Contractor and the Surety, and no Claims for such loss or damage shall be recognized by the District nor will such loss or damage excuse the complete and satisfactory performance of the Contract by the Contractor.

11.4 FIRE INSURANCE

Before the commencement of the Work, the Contractor shall procure, maintain, and cause to be maintained at the Contractor's expense, fire insurance on all Work subject to loss or damage by fire. The amount of fire insurance shall be sufficient to protect the Project against loss or damage in full until the Work is accepted by the District. This requirement may be waived upon confirmation by the District that such coverage is provided under the Builder's Risk Insurance being provided.

11.5 AUTOMOBILE LIABILITY

11.5.1 The District, Architect and Construction Manager, Inspectors, their directors, officers, employees, agents and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Contractor or for which the Contractor is responsible. Such insurance coverage shall be primary and non-contributory insurance as respects the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self-insurance maintained by the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it. The insurer shall agree to waive all rights of subrogation against the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers for losses paid under the terms of the insurance policy that arise from Work performed by the Contractor.

11.5.2 Insurance Services Office Business Auto Coverage Form Number CA 0001, Code 1 (any auto) is required. Comprehensive Automobile Liability insurance to include all autos, owned, non-owned, and hired, with limits of $1,000,000 per accident for bodily injury and property damage.

11.6 OTHER INSURANCE

The Contractor shall provide all other insurance required to be maintained under applicable laws, ordinances, rules, and regulations.

11.7 PROOF OF INSURANCE

The Contractor shall not commence Work nor shall it allow any Subcontractor to commence Work under this Contract until all required insurance and certificates have been obtained and delivered in duplicate to the District for approval subject to the following requirements:

a. Certificates and insurance policies shall include the following clause:

> "This policy and any coverage shall not be suspended, voided, non-renewed, canceled, or reduced in required limits of liability or amounts of insurance or coverage until notice has been mailed via certified mail to the District. Date of cancellation or reduction may not be less than thirty (30) days after the date of mailing notice."

b. Certificates of insurance shall state in particular those insured, the extent of insurance, location and operation to which the insurance applies, the expiration date, and cancellation and reduction notices.

c. Certificates of insurance shall clearly state that the District and the Architect are named as additional insureds under the policy described and that such insurance policy shall be primary to any insurance or self-insurance maintained by District.

d. The Contractor and its Subcontractors shall produce a certified copy of any insurance policy required under this Section upon written request of the District.

11.8 COMPLIANCE

In the event of the failure of Contractor to furnish and maintain any insurance required by this Article 11, the Contractor shall be in default under the Contract. Compliance by Contractor with the requirement to carry insurance and furnish certificates or policies evidencing the same shall not relieve the Contractor from liability assumed under any provision of the Contract Documents, including, without limitation, the obligation to defend and indemnify the District and the Architect.

11.9 WAIVER OF SUBROGATION

Contractor waives (to the extent permitted by law) any right to recover against the District for damages to the Work, any part thereof, or any and all claims arising by reason of any of the foregoing, but only to the extent that such damages and/or claims are covered by property insurance and only to the extent of such coverage (which shall exclude deductible amounts) by insurance actually carried by the District.

The provisions of this Article are intended to restrict each party to recovery against insurance carriers only to the extent of such coverage and waive fully and for the benefit of each, any rights and/or claims which might give rise to a right of subrogation in any insurance carrier. The District and the Contractor shall each obtain in all policies of insurance carried by either of them, a waiver by the insurance companies thereunder of all rights of recovery by way of subrogation for any damages or claims covered by the insurance.

11.10 PERFORMANCE AND PAYMENT BONDS

11.10.1 Bond Requirements

Unless otherwise specified in the Supplemental Conditions, prior to commencing any portion of the Work, the Contractor shall furnish separate Payment and Performance Bonds for its portion of the Work which shall cover 100% faithful performance of and payment of all obligations arising under the Contract Documents and/or guaranteeing the payment in full of all claims for labor performed and materials supplied for the Work. All bonds shall be provided by a corporate Surety authorized and admitted to transact business in California as sureties.

To the extent, if any, that the Contract Price is increased in accordance with the Contract Documents, the Contractor shall, upon request of the District, cause the amount of the bonds to be increased accordingly and shall promptly deliver satisfactory evidence of such increase to the District. To the extent available, the bonds shall further provide that no change or alteration of the Contract Documents (including, without limitation, an increase in the Contract Price, as referred to above), extensions of time, or modifications of the time, terms, or conditions of payment to the Contractor will release the Surety. If the Contractor fails to furnish the required bonds, the District may terminate the Contract for cause.

11.10.2 Surety Qualification

Only bonds executed by admitted Surety insurers as defined in Code of Civil Procedure § 995.120 shall be accepted. Surety must be a California-admitted Surety and listed by the U.S. Treasury with a bonding capacity in excess of the Project cost.

11.10.3 Alternate Surety Qualifications

If a California-admitted Surety insurer issuing bonds does not meet these requirements, the insurer will be considered qualified if it is in conformance with § 995.660 of the California Code of Civil Procedure and proof of such is provided to the District.

ARTICLE 12
UNCOVERING AND CORRECTION OF WORK

12.1 COMPLIANCE WITH TITLE 24 INSTALLATION REQUIREMENTS

Contractor is aware of the requirements governing Contractor's Work under title 24 Section 4-343 which provides, in pertinent part:

4-343. Duties of the Contractor.

(a) **Responsibilities**. It is the duty of the contractor to complete the Work covered by his or her contract in accordance with the approved Plans and Specifications therefore. The contractor in no way is relieved of any responsibility by the activities of the architect, engineer, Inspector or DSA in the performance of such duties.

(b) **Performance of the Work.** The contractor shall carefully study the approved Plans and Specifications and shall plan a schedule of operations well ahead of time. If at any time it is discovered that Work is being done which is not in accordance with the approved Plans and Specifications, the contractor shall correct the Work immediately. All inconsistencies or items which appear to be in error in the Plans and Specifications shall be promptly called to the attention of the architect or registered engineer, through the Inspector, for interpretation or correction. In no case, however, shall the instruction of the architect or registered engineer be construed to cause Work to be done which is not in conformity with the approved Plans, Specifications, and Change Orders. The contractor must notify the Project Inspector, in advance, of the commencement of construction of each and every aspect of the Work.

12.1.1 Issuance of Notices of Non-Compliance

The Inspector may issue a Notice of Non-Compliance on the Project indicating deviation from Plans and Specifications. It is Contractor's responsibility to correct all deviations from the approved Plans and Specifications unless the District has issued an Immediate Change Directive. In such case, the Contractor shall proceed with the Work with the understandings of the District as set forth in the ICD and as specifically noted in Article 7.3.

12.2 SPECIAL NOTICE OF AMERICANS WITH DISABILITIES ACT

Some of the requirements in the Plans and Specifications are meant to comply with the Americans with Disabilities Act ("ADA"). The requirements of the ADA are technical in nature and may appear to be minor in nature (i.e. whether a walkway or ramp has a 2% cross-slope). Contractor is warned that even the slightest deviation from the specific requirements from the ADA is considered a Civil Rights violation and subjects the District to fines of three times actual damages sustained by a handicap individual or up to $4,000 per violation and attorney's fees required to enforce the ADA violation. As a result of the significant liability and exposure associated with ADA aspects of the Contract, Contractor shall take special care to meet all ADA requirements detailed in the Plans and Specifications. Failure to comply with ADA rules that results in a Notice of Non-Compliance shall be repaired to meet ADA requirements promptly. In addition, any ADA violations that are not identified by Inspector or Architect that are later identified shall be repaired and charged back to the Contractor through a Deductive Change Order.

12.2.1 Indemnification of ADA Claims

Contractor shall indemnify, hold harmless and defend the District from ADA claims arising from the failure to comply with the Plans and Specifications. Further, any withholdings for ADA violations under Article 9.6 shall include potential redesign costs and an accelerated repair costs due to the potential for ADA claims arising from DSA posting of ADA violations on the Project.

12.3 UNCOVERING OF WORK

12.3.1 Uncovering Work for Required Inspections

Work shall not be covered without the Inspector's review and the Architect's knowledge that the Work conforms with the requirements of the approved Plans and Specifications (except in the case of an ICD under Article 7.3). Inspector must be timely notified of inspections and of new areas so Work can be inspected at least 48 hours before opening a new area (For example, see DSA Form 156 for Commencement/Completion of Work Notification which requires "at least 48 hour" advance notification of a new area). An Inspector must comply with DSA protocols for signing each category or phase of Work under DSA Form 152 (in compliance with the Form 152 Manual) or a Notice of Deviation (DSA Form 154) will be issued requiring the Work that was not inspected be uncovered for inspection. Thus, if a portion of the Work is covered without inspection or Architect approval, is subject to a Notice of Non-Compliance for being undertaken without inspection, or otherwise not in compliance with the Contract Documents, after issuance of a Written Notice of Non-Compliance (Form 154) or a written notice to uncover Work, Contractor shall promptly uncover all Work (which includes furnishing all necessary facilities, labor, and material) for the Inspector's or the Architect's observation and such Work shall be replaced at the Contractor's expense without change in the Contract Sum or Time.

12.3.2 Costs for Inspections Not Required

If a portion of the Work has been covered is believed to be Non-Conforming to the Plans and Specifications, even if the Form 152 for the category of Work has been signed by the Inspector, the Inspector or the Architect may request to see such Work, and it shall be promptly uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncover and replacement shall, by appropriate Change Order and shall, be charged to the District. If such Work is not in accordance with Contract Documents, the Contractor shall be responsible for all costs to uncover the Work, delays incurred to uncover the Work, and Contractor shall pay all costs to correct the Non-Conforming construction condition unless the condition was caused by the District or a separate contractor, in which event the District shall be responsible for payment of such costs to the Contractor.

12.4 CORRECTION OF WORK

12.4.1 Correction of Rejected Work

The Contractor shall promptly correct the Work rejected by the Inspector or the District upon recommendation of the Architect as failing to conform to the requirements of the Contract Documents, whether observed before or after Completion and whether or not Fabricated, installed, or completed. The Contractor shall bear costs of correcting the rejected Work, including cost for delays that may be incurred by Contractor or Subcontractors, the cost for additional testing, inspections, and compensation for the Inspector's or the Architect's services and expenses made necessary thereby (including costs for preparing a CCD, DSA CCD review fees, and additional inspection and special inspection costs).

12.4.2 One-Year Warranty Corrections

If, within one (1) year after the date of Completion of the Work or a designated portion thereof, or after the date for commencement of warranties established under Article 9.9.1, or by the terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the District to do so unless the District has previously given the Contractor a written acceptance of such condition. This period of one (1) year shall be extended with respect to portions of the Work first performed after Completion by the period of time between Completion and the actual performance of the Work. This obligation under this Article 12.4.2 shall survive acceptance of the Work under the Contract and termination of the Contract. The District shall give such notice promptly after discovery of the condition.

12.4.3 District's Rights if Contractor Fails to Correct

If the Contractor fails to correct nonconforming Work within a reasonable time, the District may correct the Work and seek a Deductive Change Order, pursuant to Article 9.6 or Article 2.2.

ARTICLE 13
MISCELLANEOUS PROVISIONS

13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located.

13.2 SUCCESSORS AND ASSIGNS

The District and the Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

13.3 WRITTEN NOTICE

In the absence of specific notice requirements in the Contract Documents, written notice shall be deemed to have been duly served if delivered in person to the individual, member of the firm or entity, or to an officer of the corporation for which it was intended, or if delivered at or sent by registered or certified mail to the last business address known to the party giving notice.

13.4 RIGHTS AND REMEDIES

13.4.1 Duties and Obligations Cumulative

Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

13.4.2 No Waiver

No action or failure to act by the Inspector, the District, or the Architect shall constitute a waiver of a right or duty afforded them under the Contract Documents, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing.

13.5 TESTS AND INSPECTIONS

13.5.1 Compliance

Tests, inspections, and approvals of portions of the Work required by the Contract Documents will comply with Division 1, Title 24, and with all other laws, ordinances, rules, regulations, or orders of public authorities having jurisdiction.

13.5.2 Independent Testing Laboratory

The District will select and pay an independent testing laboratory to conduct all tests and inspections. Selection of the materials required to be tested shall be made by the laboratory or the District's representative and not by the Contractor. See Articles 3.13.1 and 4.3.6 regarding costs or expenses of inspection or testing outside of the Project Site.

13.5.3 Advance Notice to Inspector

The Contractor shall notify the Inspector a sufficient time in advance of its readiness for required observation or inspection so that the Inspector may arrange for same. The Contractor shall notify the Inspector a sufficient time in advance of the manufacture of material to be supplied under the Contract Documents which must, by terms of the Contract Documents, be tested in order that the Inspector may arrange for the testing of the material at the source of supply.

13.5.4 Testing Off-Site

Any material shipped by the Contractor from the source of supply, prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said Inspector that such testing and inspection will not be required, shall not be incorporated in the Work.

13.5.5 Additional Testing or Inspection

If the Inspector, the Architect, the District, or public authority having jurisdiction determines that portions of the Work require additional testing, inspection, or approval not included under Article 13.5.1, the Inspector will, upon written authorization from the District, make arrangements for such additional testing, inspection, or approval. The District shall bear such costs except as provided in Articles 13.5.6 and 13.5.7.

13.5.6 Costs for Retesting

If such procedures for testing, inspection, or approval under Articles 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, the Contractor shall bear all costs arising from such failure, including those of re-testing, re-inspection, or re-approval, including, but not limited to, compensation for the Architect's services and expenses. Any such costs shall be paid by the District, invoiced to the Contractor, and deducted from the next Progress Payment.

13.5.7 Costs for Premature Test

In the event the Contractor requests any test or inspection for the Project and is not completely ready for the inspection, the Contractor shall be invoiced by the District for all costs and expenses resulting from that testing or inspection, including, but not limited to, the Inspector's and Architect's fees and expenses, and the amount of the invoice shall be deducted from the next Progress Payment.

13.6 TRENCH EXCAVATION

13.6.1 Trenches Greater Than Five Feet

Pursuant to Labor Code section 6705, if the Contract Price exceeds $25,000 and involves the excavation of any trench or trenches five (5) feet or more in depth, the Contractor shall, in advance of excavation, submit to the District or a registered civil or structural engineer employed by the District or Architect, a detailed plan showing the design of shoring for protection from the hazard of caving ground during the excavation of such trench or trenches.

13.6.2 Excavation Safety

If such plan varies from the Shoring System Standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer, but in no case shall such plan be less effective than that required by the Construction Safety Orders. No excavation of such trench or trenches shall be commenced until said plan has been accepted by the District or by the person to whom authority to accept has been delegated by the District.

13.6.3 No Tort Liability of District

Pursuant to Labor Code § 6705, nothing in this Article shall impose tort liability upon the District or any of its employees.

13.6.4 No Excavation without Permits

The Contractor shall not commence any excavation Work until it has secured all necessary permits including the required CAL OSHA excavation/shoring permit. Any permits shall be prominently displayed on the Site prior to the commencement of any excavation.

13.7 WAGE RATES, TRAVEL, AND SUBSISTENCE

13.7.1 Wage Rates

Pursuant to the provisions of Article 2 (commencing at § 1720), Chapter 1, Part 7, Division 2, of the Labor Code, the District has obtained the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this public works project is to be performed for each craft, classification, or type of worker needed for this Project from the Director of the Department of Industrial Relations ("Director"). These rates are on file at the administrative office of the District and are also available from the Director of the Department of Industrial Relations. Copies will be made available to any interested party on request. The Contractor shall post a copy of such wage rates at appropriate, conspicuous, weatherproof points at the Site.

Any worker employed to perform Work on the Project, but such Work is not covered by any classification listed in the published general prevailing wage rate determinations or per diem wages determined by the Director of the Department of Industrial Relations, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to the employment of such person in such classification.

13.7.2 Holiday and Overtime Pay

Holiday and overtime work, when permitted by law, shall be paid for at the rate set forth in the prevailing wage rate determinations issued by the Director of the Department of Industrial Relations or at least one and one-half (1½) times the specified basic rate of per diem wages, plus employer payments, unless otherwise specified in the Contract Documents or authorized by law.

13.7.3 Wage Rates Not Affected by Subcontracts

The Contractor shall pay and shall cause to be paid each worker engaged in the execution of the Work on the Project not less than the general prevailing rate of per diem wages determined by the Director, regardless of any contractual relationship which may be alleged to exist between the Contractor or any Subcontractor and such workers.

13.7.4 Per Diem Wages

The Contractor shall pay and shall cause to be paid to each worker needed to execute the Work on the Project per diem wages including, but not limited to, employer payments for health and welfare, pensions, vacation, travel time and subsistence pay as provided for in Labor Code §1773.1.

13.7.5 Forfeiture and Payments

Pursuant to Labor Code §1775, the Contractor shall forfeit to the District, not more than Two Hundred Dollars ($200.00) for each calendar day, or portion thereof, for each worker paid less than the prevailing wages rates as determined by the Director of the Department of Industrial Relations, for the work or craft in which the worker is employed for any Work done under the Agreement by the Contractor or by any Subcontractor under it. The amount of the penalty shall be determined by the Labor Commissioner and shall be based on consideration of: (1) whether the Contractor or Subcontractor's failure to pay the correct rate of per diem wages was a good faith mistake and, if so, the error was promptly and voluntarily correct upon being brought to the attention of the Contractor or Subcontractor; and (2) whether the Contractor or Subcontractor has a prior record of failing to meet its prevailing wage obligations.

13.7.6 Monitoring and Enforcement by Labor Commissioner

Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE). The Contractor and all subcontractors shall be required to furnish, at least monthly, certified payroll records directly to the Labor Commissioner in accordance with Labor Code section 1771.4. All payroll records shall be furnished in a format required by the Labor Commissioner. The Contractor and all subcontractors must sign up for, and utilize, the Labor Commissioner's electronic certified payroll records submission system. The District will have direct and immediate access to all CPRs for the Project that are submitted through the Labor Commissioner's system. The District can use this information for any appropriate purpose, including monitoring compliance, identifying suspected violations, and responding to Public Records Act requests.

The Labor Commissioner/ DLSE may conduct various compliance monitoring and enforcement activities including, but not limited to, confirming the accuracy of payroll records, conducting worker interviews, conducting audits, requiring submission of itemized statements prepared in accordance with Labor Code section 226, and conducting random in-person inspections of the Project site ("On-Site Visits"). On-Site Visits may include inspections of records, inspections of the Work site and observation of work activities, interviews of workers and others involved with the Project, and any other activities deemed necessary by the Labor Commissioner/DLSE to ensure compliance with prevailing wage requirements. The Labor Commissioner/DLSE shall have free access to any construction site or other place of labor and may obtain any information or statistics pertaining to the lawful duties of the Labor Commissioner/DLSE.

Any lawful activities conducted or any requests made by the Labor Commissioner/DLSE shall not be the basis for any delays, claims, costs, damages or liability of any kind against the District by the Contractor. Contractor and all subcontractors shall cooperate and comply with any lawful requests by the Labor Commissioner/ DLSE. The failure of the Labor Commissioner, DLSE, or any other entity related to the Department of Industrial Relations to comply with any requirement imposed by the California Code of Regulations, Title 8, Chapter 8 shall not of itself constitute a defense to the failure to pay prevailing wages or to comply with any other obligation imposed by Division 2, Part 7, Chapter 1 of the Labor Code.

Prior to commencing any Work on the Project, the Contractor shall post the required notice/poster required under the California Code of Regulations and Labor Code section 1771.4 in both

English and Spanish at a conspicuous, weatherproof area at the Project site. The required notice/poster is available on the Labor Commissioner's website.

13.8 RECORDS OF WAGES PAID

13.8.1 Payroll Records

a. Pursuant to §1776 of the Labor Code, the Contractor and each Subcontractor shall keep an accurate payroll record showing the name, address, social security number, work classification and straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by him or her in connection with the Project.

All payroll records as specified in Labor Code §1776 of the Contractor and all Subcontractors shall be certified and furnished directly to the Labor Commissioner in accordance with Labor Code §1771.4(a)(3) on a monthly basis (or more frequently if required by the District or the Labor Commissioner) and in a format prescribed by the Labor Commissioner. Payroll records as specified in Labor Code §1776 shall be certified and submitted to the District with each application for payment. All payroll records shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following basis:

1. A certified copy of an employee's payroll record shall be made available for inspection or furnished to the employee or his or her authorized representative on request.

2. A certified copy of all payroll records shall be made available for inspection or furnished upon request to a representative of District, the Division of Labor Standards Enforcement or the Division of Apprenticeship Standards of the Department of Industrial Relations.

3. A certified copy of all payroll records shall be made available upon request by the public for inspection or for copies thereof. However, a request by the public shall be made through the District, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement. If the requested payroll records have not been provided pursuant to Paragraph (2) above, the requesting party shall, prior to being provided the records, reimburse the costs, according to law for the preparation by the Contractor, Subcontractor(s), and the entity through which the request was made. The public shall not be given access to such records at the principal office of the Contractor.

b. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the Division of Labor Standards Enforcement.

c. The Contractor or Subcontractor(s) shall file a certified copy of all payroll records with the entity that requested such records within 10 calendar days after receipt of a written request.

d. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the District, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or obliterated to prevent disclosure of an individual's name, address and social security number. The name and address of the Contractor awarded the Contract or the Subcontractor(s) performing the Contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent disclosure of an individual's name and social security number. Notwithstanding any other provision of law, agencies that are included in the Joint Enforcement Strike Force on the Underground Economy established pursuant to Section 329 of the Unemployment Insurance Code and other law enforcement agencies investigating violations of law shall, upon request, be provided non-redacted copies of certified payroll records.

e. The Contractor shall inform the District of the location of all payroll records, including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.

f. The Contractor or Subcontractor(s) shall have 10 calendar days in which to comply subsequent to receipt of a written notice requesting payroll records. In the event that the Contractor or Subcontractor(s) fails to comply within the 10-day period, the Contractor or Subcontractor(s) shall, as a penalty to the District, forfeit One Hundred Dollars ($100.00) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.

Responsibility for compliance with this Article shall rest upon the Contractor.

13.8.2 Withholding of Contract Payments & Penalties

The District may withhold or delay contract payments to the Contractor and/or any Subcontractor if:

a. The required prevailing rate of per diem wages determined by the Director of the Department of Industrial Relations is not paid to all workers employed on the Project; or

b. The Contractor or Subcontractor(s) fail to submit all required certified payroll records with each application for payment, but not less than once per month; or

c. The Contractor or Subcontractor(s) submit incomplete or inadequate payroll records; or

d. The Contractor or Subcontractor(s) fail to comply with the Labor Code requirements concerning apprentices; or

e. The Contractor or Subcontractor(s) fail to comply with any applicable state laws governing workers on public works projects.

13.9 APPRENTICES

13.9.1 Apprentice Wages and Definitions

All apprentices employed by the Contractor to perform services under the Contract shall be paid the standard wage paid to apprentices under the regulations of the craft or trade for which he or she is employed, and as determined by the Director of the Department of Industrial Relations, and shall be employed only at the craft or trade to which he or she is registered. Only apprentices, as defined in §3077 of the Labor Code, who are in training under apprenticeship standards that have been approved by the Chief of the Division of Apprenticeship Standards and who are parties to written apprenticeship agreements under Chapter 4 (commencing with §3070) of Division 3, are eligible to be employed under this Contract. The employment and training of each apprentice shall be in accordance with the apprenticeship standards and apprentice agreements under which he or she is training, or in accordance with the rules and regulations of the California Apprenticeship Council.

13.9.2 Employment of Apprentices

Contractor agrees to comply with the requirements of Labor Code §1777.5. The Contractor awarded the Project, or any Subcontractor under him or her, when performing any of the Work under the Contract or subcontract, employs workers in any apprenticeable craft or trade, the Contractor and Subcontractor shall employ apprentices in the ratio set forth in Labor Code §1777.5. The Contractor or any Subcontractor must apply to any apprenticeship program in the craft or trade that can provide apprentices to the Project site for a certificate approving the contractor or subcontractor under the apprenticeship standards for the employment and training of apprentices in the area or industry affected. However, the decision of the apprenticeship program to approve or deny a certificate shall be subject to review by the Administrator of Apprenticeship. The apprenticeship program or programs, upon approving the Contractor or Subcontractor, shall arrange for the dispatch of apprentices to the Contractor or Subcontractor upon the Contractor's or Subcontractor's request. "Apprenticeable craft or trade" as used in this Article means a craft or trade determined as an apprenticeable occupation in accordance with the rules and regulations prescribed by the California Apprenticeship Council. The ratio of work performed by apprentices to journeyman employed in a particular craft or trade on the Project shall be in accordance with Labor Code §1777.5.

13.9.3 Submission of Contract Information

Prior to commencing Work on the Project, the Contractor and Subcontractors shall submit contract award information to the applicable apprenticeship program(s) that can supply apprentices to the Project and make the request for the dispatch of apprentices in accordance with the Labor Code. The information submitted shall include an estimate of journeyman hours to be performed under the Contact, the number of apprentices proposed to be employed, and the approximate dates the apprentices would be employed. A copy of this information shall also be submitted to the District if requested. Within 60 days after concluding Work on the Project, the Contractor and Subcontractors shall submit to the District, if requested, and to the apprenticeship program a verified statement of the journeyman and apprentice hours performed on the Project.

13.9.4 Apprentice Fund

The Contractor or any Subcontractor under him or her, who, in performing any of the Work under the Contract, employs journeymen or apprentices in any apprenticeable craft or trade shall contribute to the California Apprenticeship Council the same amount that the Director determines is the prevailing amount of apprenticeship training contributions in the area of the Project. The Contractor and Subcontractors may take as a credit for payments to the California Apprenticeship Council any amounts paid by the Contractor or Subcontractor to an approved apprenticeship program that can supply apprentices to the Project. The Contractor and Subcontractors may add the amount of the contributions in computing his or her bid for the Contract.

13.9.5 Prime Contractor Compliance

The responsibility of compliance with Article 13 and §1777.5 of the Labor Code for all apprenticeable occupations is with the Prime Contractor. Any Contractor or Subcontractor that knowingly violates the provisions of this Article or Labor Code §1777.5 shall be subject to the penalties set forth in Labor Code §1777.7.

13.10 ASSIGNMENT OF ANTITRUST CLAIMS

13.10.1 Application

Pursuant to Government Code § 4551, in entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor or Subcontractor offers and agrees to assign to the District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act, (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 [commencing with § 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from the purchase of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders Retention Payment to the Contractor, without further acknowledgment by the parties. If the District receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Chapter 11 (commencing with § 4550) of Division 5 of Title 1 of the Government Code, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the District any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the District as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

13.10.2 Assignment of Claim

Upon demand in writing by the assignor, the District shall, within one (1) year from such demand, reassign the cause of action assigned pursuant to this Article if the assignor has been or may have been injured by the violation of law for which the cause of action arose and the District has not been injured thereby or the District declines to file a court action for the cause of action.

13.11 STATE AND DISTRICT CONDUCTED AUDITS

Pursuant to and in accordance with the provisions of Government Code § 10532, or any amendments thereto, all books, records, and files of the District, the Contractor, or any Subcontractor connected with the performance of this Contract involving the expenditure of state funds in excess of Ten Thousand Dollars ($10,000.00), including, but not limited to, the administration thereof, shall be subject to the examination and audit of the Office of the Auditor General of the State of California for a period of five (5) years after Retention Payment is made or a Notice of Completion is Recorded, whichever occurs first.

Contractor shall preserve and cause to be preserved such books, records, hard drives, electronic media, and files for the audit period.

Pursuant to the remedies under Public Contract Code section 9201 and Government Code section 930.2, Contractor, through execution of this Agreement, also agrees the District shall have the right to review and audit, upon reasonable notice, the books and records of the Contractor concerning any monies associated with the Project. The purpose of this "Audit" is to quickly and efficiently resolve Disputes based on the actual costs incurred and to reduce the uncertainty in resolving Disputes with limited information. The District shall perform any audits at its own cost and any such audit shall be performed by an independent auditor, having no direct or indirect relationship with the functions or activities being audited or with the business conducted by the Contractor or District. In the event the independent auditor determines that Change Orders, response to Request for Proposals, Claims, Appeal of Claims, or other requests for payment are in error, or have has any other concerns or questions, the Auditor shall report the results of the Audit findings to the District and provide a copy to the Contractor after giving the District Board the opportunity for at least 10 days review. If the Contractor disputes the findings of the independent auditor, such dispute shall be handled in the manner set forth under Article 4.6.2 entitled Disputes.

If Contractor having agreed to the terms of this Contract fails to produce books or records requested by Auditor, such failure to produce books or records that were required to be preserved for audit, it shall be presumed that the information contained in the withheld books or records were unfavorable to the Contractor and the Auditor shall note this refusal in the results of the Audit findings for further evaluation by the District and the District's Board. The refusal to release records that are concerning monies associated with the Project may be used as a grounds to debar the Contractor under Article 15 for failure to preserve records under Article 13.11 and the failure to produce required audit records may also be used as a grounds for a negative finding against the Contractor depending on the significance of the records that are withheld by Contractor. Failure to produce job cost data tied to job cost categories and budgets shall be presumed an intentional failure to produce key audit records. Similarly, failure to produce Daily Reports (prepared at or near the time of the Work actually took place (See Article 3.16) shall be presumed an intentional failure to produce key audited records.

If Contractor is seeking costs for inefficiency, home office overhead, or unanticipated increased costs due to delays or acceleration, Contractor shall also produce copies of the original bid tabulation utilized in submitting Contractor's bid for the Project. This document shall be considered confidential and shall not be subject to disclosure through a Public Records Act and shall not be distributed to anyone other than the District and the District's counsel. This bid tabulation shall only be used in litigation, arbitration, evaluation of Claims or Disputes, Audit, and trial. If the records for the bid tabulation are kept on a computer, the Contractor shall also produce all metadata (in native format) that accompanies the bid tabulation for inspection to prove the authenticity of the underlying bid tabulation. Failure to produce the bid tabulation for review of inefficiency, home office overhead, or unanticipated increased costs due to delays or accelerations shall be considered material evidence that the bid tabulation was not favorable to the Contractor. This evidence shall be entered as a jury instruction for trial that the bid tabulation was not produced and the bid tabulation information was unfavorable to the Contractor. The evidence may also be used in debarment proceedings, and noted as an exception to the Audit findings.

Upon notification of Contractor concerning the results of the audit and a reasonable time has passed for Contractor to respond to the Audit findings and if either there is no Dispute of the Audit findings under Article 4.6 or if the result after utilizing the Disputes Clause confirms the Audit findings, the District may seek reimbursement for overstated Claims, Change Orders, or Appeal of Claims and may also undertake debarment proceedings under Article 15 of these General Conditions.

13.12 STORM WATER POLLUTION PREVENTION

13.12.1 Application

This Section addresses the preparation, implementation and monitoring of a Storm Water Pollution Prevention Plan (SWPPP) for the purpose of preventing the discharge of pollutants from the construction site. This includes the elimination of pollution discharges such as improper dumping, spills or leakage from storage tanks or transfer areas. The District will not issue a Notice to Proceed until Contractor has prepared by a qualified individual and obtained approval of the Permit Registration Documents ("PRDs") that include a Notice of Intent, Construction Risk Calculation, Site Map, SWPPP, Annual Fee and any additional required documents from all applicable Local Governing Agencies including the Regional Water Quality Control Board. The Contractor shall also secure a certification that the Project has met all of the conditions of the General Construction Activity Storm Water Permit (GCASP) and comply with all applicable local, state and federal regulations governing storm water pollution prevention.

13.12.2 References and Materials

- California Stormwater Quality Association New Development and Redevelopment Best Management Practice Handbook

- 2009 California Stormwater Quality Association Construction BMP Handbook .

- State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. Available on-line at:

- http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.- Use materials of a class, grade and type needed to meet the performance described in the BMP Handbook.

13.12.3 Preparation and Approval

The Contractor shall prepare by a qualified individual the PRDs that include a Notice of Intent, Construction Risk Calculation, Site Map, SWPPP, Annual Fee and any additional required documents. The Contractor's Qualified SWPPP Developer ("QSD") shall prepare the Storm Water Pollution Prevention Plan (SWPPP) as required to comply with storm water pollution regulations for project sites with storm water discharges associated with construction activity such as clearing or demolition, grading, excavation and other land disturbances. The SWPPP shall apply to all areas that are directly related to construction activity, including but not limited to staging areas, storage yards, material borrow areas, and access roads.

13.12.3.1 The Contractor shall prepare and submit to the Local Governing Agencies and the District the SWPPP for review and approval if the project sites, new or existing, with land disturbance of 1 or more acres (or less than 1 acres if part of a common plan of development); the construction activity that results in land surface disturbances of less than one acre is part of a larger common plan of development or sale of one or more acres of disturbed land surface; or the construction activity associated with Linear Underground/Overhead Projects ("LUPs") including, but not limited to, those activities necessary for the installation of underground and overhead linear facilities (e.g., conduits, substructures, pipelines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities) and include, but are not limited to, underground utility mark-out, potholing, concrete and asphalt cutting and removal, trenching, excavation, boring and drilling, access road and pole/tower pad and

cable/wire pull station, substation construction, substructure installation, construction of tower footings and/or foundations, pole and tower installations, pipeline installations, welding, concrete and/or pavement repair or replacement, and stockpile/borrow locations.

13.12.3.2 The Contractor shall also pay annual renewal fee(s) until the contract is completed and make all such checks payable to the State Water Resources Control Board. The Notice of Intent must be submitted at least two weeks prior to the commencement of construction activities.

13.12.3.3 The Contractor shall prepare the SWPPP by following the format in Sections 2, 3, 4 and Appendices A through F of the California Stormwater BMP Handbook - Construction, January 2009 edition, published by the California Stormwater Quality Association. The publication is available from:

California Stormwater
Quality Association
P.O. Box 2105
Menlo Park, CA 94026-2105
Phone: (650) 366-1042
E-mail: info@casqa.org

or

https://www.casqa.org/store/products/tabid/154/p-167-construction-handbookportal-initial-subscription.aspx

13.12.3.4 Where land disturbance is less than 1 acre, any BMPs indicated in the BMP Handbook needed to prevent or minimize storm water pollution shall be implemented at no extra cost to the District.

13.12.3.5 Within two weeks after Award of Contract by the District, the Contractor shall submit to the District's Civil Engineer one copy of the PRDs including the SWPPP for review. After the District's approval, the Contractor shall provide approved copies of the SWPPP as follows: one copy each to the Project Inspector, Construction Manager, Architect, Commissioned Architect and District's Civil Engineer.

13.12.4 Implementation

The Contractor shall implement the Storm Water Pollution Prevention Plan by doing the following:

a. Obtain a Waste Discharger Identification (WDID) number from the SWRCB before beginning construction. This number will be issued once your PRDs are administratively accepted and fee is received.

b. Keep the SWPPP, REAPs, monitoring data on the construction site.

c. Employ a Qualified SWPPP Practitioner (QSP) to implement the SWPPP during construction and develop Rain Event Action Plans ("REAPs").

d. Install, inspect, maintain and monitor BMPs required by the General Permit.

e. Install perimeter controls prior to starting other construction work at the site.

f. Contain on-site storm water at the jobsite. Do not drain on-site water directly into the storm drain.

g. Implement the SWPPP.

h. Provide SWPPP and BMP implementation training for those responsible for implementing the SWPPP.

i. Designate trained personnel for the proper implementation of the SWPPP.

j. Conduct monitoring, as required, and assess compliance with the Numeric Action Levels (NALs) or Numeric Effluent Limitations (NELs) appropriate to your project.

k. Report monitoring data:

1. Maintain a paper or electronic copy of all required records for three years from the date generated or date submitted, whichever is last. These records must be available at the construction site until construction is completed.

2. Have a QSD revise the SWPPP as needed to reflect the phases of construction and to suit changing site conditions and instances when properly installed systems are ineffective.

3. Assist the District with entering any necessary data or information into the Stormwater Multi-Application and Reporting System ("SMARTS") system.

l. At the end of Construction Contract:

1. Submit Notice of Termination (NOT) into the SMARTS when construction is complete and conditions of termination listed in the NOT have been satisfied. A copy of the NOT can be found at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

2. Leave in place storm water pollution prevention controls needed for post-construction storm water management and remove those that are not needed as determined by the District. Thereafter, left-in-place controls will be maintained by the District.

3. Provide Site Monitoring Reports, SWPPP revisions, Compliance Certifications and related documents to the District. Post-construction storm water operation and management plan as mentioned in the compliance certifications are considered to be in place at the end of the Construction Contract.

13.12.5 Monitoring

The Contractor shall conduct examination of storm water pollution prevention controls as required by the State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General

Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. This includes properly qualified personnel performing all required monitoring, testing, inspections and monitoring. The Contractor shall also conduct examination of storm water pollution prevention controls, as well as before and after each storm event in compliance with the State Water Resources Control Board Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System General Permit No. CAS000002, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities (General Permit) (SWRCB, 2009).and at least once each 24-hour period during extended storm events to identify BMP effectiveness and implement repairs or BMP changes as soon as feasible. All maintenance related to a storm event should be completed within 48 hours of the storm event. The Contactor shall also prepare and maintain, at the jobsite, a log of each inspection using Site Monitoring Report forms.

13.12.6 Liabilities and Penalties

a. Review of the SWPPP and inspection logs by the District shall not relieve the Contractor from liabilities arising from non-compliance with storm water pollution regulations.

b. Payment of penalties for non-compliance by the Contractor shall be the sole responsibility of the Contractor and will not be reimbursed by the District.

c. Compliance with the Clean Water Act pertaining to construction activity is the sole responsibility of the Contractor. For any fine(s) levied against the District due to non-compliance by the Contractor, the District will deduct from the final payment due the Contractor the total amount of the fine(s) levied on the District, plus legal and associated costs.

d. The Contractor shall submit to the District a completed NOI for change of information (Construction Site Information and Material Handling/Management Practices).

ARTICLE 14
TERMINATION OR SUSPENSION OF THE CONTRACT

14.1 TERMINATION BY THE CONTRACTOR FOR CAUSE

14.1.1 Grounds for Termination

The Contractor may terminate the Contract if the Work is stopped for a period of thirty (30) consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons performing portions of the Work for whom the Contractor is contractually responsible, for only the following reasons:

a. Issuance of an order of a court or other public authority having jurisdiction; or

b. An act of the United State or California government, such as a declaration of national emergency.

14.1.2 Notice of Termination

If one of the above reasons exists, the Contractor may, upon written notice of seven (7) additional days to the District, terminate the Contract and recover from the District payment for Work executed and for reasonable costs verified by the Architect with respect to materials, equipment, tools, construction equipment, and machinery, including reasonable overhead, profit, and damages.

14.2 TERMINATION BY THE DISTRICT FOR CAUSE

14.2.1 Grounds for Termination

The District may terminate the Contractor and/or this Contract for the following reasons:

a. Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;

b. Persistently or repeatedly is absent, without excuse, from the job site;

c. Fails to make payment to Subcontractors, suppliers, materialmen, etc.;

d. Persistently disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction;

e. Fails to provide a schedule or fails or refuses to update schedules required under the Contract;

f. Falls behind on the Project and refuses or fails to undertake a Recovery Schedule;

g. If the Contractor has been debarred from performing Work

h. Becomes bankrupt or insolvent, including the filing of a general assignment for the benefit of creditors; or

i. Otherwise is in substantial breach of a provision of the Contract Documents.

14.2.2 Notification of Termination

When any of the above reasons exist, the District may, without prejudice to any other rights or remedies of the District and after giving the Contractor and the Contractor's Surety written notice of seven (7) days, terminate the Contractor and/or this Contract and may, subject to any prior rights of the Surety:

a. Take possession of the Project and of all material, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

b. Accept assignment of Subcontracts. Contractor acknowledges and agrees that if the District (in its sole and absolute discretion) decides to takeover completion of the Project, the Contractor agrees to immediately assign all subcontracts to the District which the District has chosen to accept;

c. Complete the Work by any reasonable method the District may deem expedient, including contracting with a replacement contractor or contractors; and,

d. Agree to accept a takeover and completion arrangement with Surety that is acceptable to the District Board.

14.2.3 Takeover and Completion of Work after Termination for Cause

A Termination for Cause is an urgent matter which requires immediate radiation since Project Work is open and incomplete, the site is subject to vandalism and theft, the Project site is considered a public nuisance, and there is a possibility of injury and deterioration of the Project Work and materials. Thus, the District shall be entitled to enter a takeover contract to either remediate the unfinished condition or complete the Work for this Project.

14.2.4 Payments Withheld

If the District terminates the Contract for one of the reasons stated in Article 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is complete. All costs associated with the termination and completion of the Project shall be the responsibility of the Contractor and/or its Surety.

14.2.5 Payments upon Completion

If the unpaid balance of the Contract Sum exceeds costs of completing the Work, including compensation for professional services and expenses made necessary thereby, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor and its Surety shall pay the difference to the District. The amount to be paid to the Contractor, or District, as the case may be, shall be certified by the Architect upon application. This payment obligation shall survive completion of the Contract.

14.3 TERMINATION OF CONTRACT BY DISTRICT (CONTRACTOR NOT AT FAULT)

14.3.1 Termination for Convenience

District may terminate the Contract upon fifteen (15) calendar days of written notice to the Contractor and use any reasonable method the District deems expedient to complete the Project, including

contracting with replacement contractor or contractors, if it is found that reasons beyond the control of either the District or Contractor make it impossible or against the District's interest to complete the Project. In such a case, the Contractor shall have no Claims against the District except for: (1) the actual cost for approved labor, materials, and services performed in accordance with the Contract Documents which have not otherwise been previously paid for and which are supported and documented through timesheets, invoices, receipts, or otherwise; and (2) profit and overhead of ten percent (10%) of the approved costs in item (1); and (3) termination cost of five percent (5%) of the approved costs in item (1). Contractor acknowledges and agrees that if the District (in its sole and absolute discretion) decides to takeover completion of the Project, the Contractor agrees to immediately assign all subcontracts to the District which the District has chosen to accept.

14.3.2 Non-Appropriation of Funds/ Insufficient Funds

In the event that sufficient funds are not appropriated to complete the Project or the District determines that sufficient funds are not available to complete the Project, District may terminate or suspend the completion of the Project at any time by giving written notice to the Contractor. In the event that the District exercises this option, the District shall pay for any and all work and materials completed or delivered onto the site for which value is received, and the value of any and all work then in progress and orders actually placed which cannot be canceled up to the date of notice of termination. The value of work and materials not otherwise already paid for by the District up to the time of termination under this Paragraph shall include a factor of fifteen percent (15%) for the Contractor's overhead and profit and there shall be no other costs or expenses paid to Contractor. All work, materials and orders paid for pursuant to this provision shall become the property of the District. District may, without cause, order Contractor in writing to suspend, delay or interrupt the Project in whole or in part for such period of time as District may determine. Adjustment shall be made for increases in the cost of performance of the Agreement caused by suspense, delay or interruption.

14.4 REMEDIES OTHER THAN TERMINATION

If a default occurs, the District may, without prejudice to any other right or remedy, including, without limitation, its right to terminate the Contract pursuant to Article 14.2, do any of the following:

a. Permit the Contractor to continue under this Contract, but make good such deficiencies or complete the Contract by whatever method the District may deem expedient, and the cost and expense thereof shall be deducted from the Contract Price or paid by the Contractor to the District on demand;

b. If the workmanship performed by the Contractor is faulty or defective materials are provided, erected or installed, then the District may order the Contractor to remove the faulty workmanship or defective materials and to replace the same with work or materials that conform to the Contract Documents, in which event the Contractor, at its sole costs and expense, shall proceed in accordance with the District's order and complete the same within the time period given by the District in its notice to the Contractor; or

c. Initiate procedures to declare the Contractor a non-responsible bidder for a period of two (2) to five (5) years thereafter.

All amounts expended by the District in connection with the exercise of its rights hereunder shall accrue interest from the date expended until paid to the District at the maximum legal rate. The District may retain or withhold any such amounts from the Contract Price. If the Contractor is ordered to replace any faulty workmanship or defective materials pursuant to Paragraph (b) above, the Contractor shall replace

the same with new work or materials approved by the Architect and the District, and, at its own cost, shall repair or replace, in a manner and to the extent the Architect and the District shall direct, all Work or material that is damaged, injured or destroyed by the removal of said faulty workmanship or defective material, or by the replacement of the same with acceptable work or materials. In no event shall anything in this Article be deemed to constitute a waiver by the District of any other rights or remedies that it may have at law or in equity, it being acknowledged and agreed by the Contractor that the remedies set forth in this Article are in addition to, and not in lieu of, any other rights or remedies that the District may have at law or in equity.

ARTICLE 15
DEBARMENT

15.1 DEBARMENT MEANS THERE HAS BEEN A FINDING THAT THE CONTRACTOR IS NOT RESPONSIBLE.

During the course of the Project, or if it is determined through Change Orders, Claims, or Audit that a Contractor is not responsible, the District may, in addition to other remedies provided in the Contract, debar the Contractor from bidding or proposing on, or being awarded, and/or performing work on District contracts for a specified period of time, which generally will not exceed five (5) years, but may exceed five (5) years or be permanent if the circumstances warrant such debarment. In addition to the debarment proceeding, a finding that a Contractor is to be debarred shall result in the termination of any or all existing Contracts the Contractor may have with the District.

15.2 BOARD FINDING

The District may debar a Contractor if the Board, or the Board's delagatee, in its discretion, finds the Contractor has done any of the following:

15.2.1 Intentionally or with reckless disregard, violated any term of the Contract with the District

15.2.2 Committed an acts or omission which reflects on the Contractor's quality, fitness or capacity to perform Work for the District;

15.2.3 Committed an act or offense which indicates a lack of business integrity or business honesty; or,

15.2.4 Made or submitted a false claim against the District or any other public entity.

15.3 HEARING AND PRESENTATION OF EVIDENCE

If there is evidence that the Contractor may be subject to debarment, the District shall notify the Contractor in writing of the evidence which is the basis for the proposed debarment and shall advice the Contractor of the scheduled date for a debarment hearing before the District Board or its delegated designee.

The District Board, or designee, shall conduct a hearing where evidence on the proposed debarment is presented. The Contractor or the Contractor's representative shall be given an opportunity to submit evidence at the hearing. The Contractor shall be provided an adequate amount of time to prepare and object to evidence presented. A tentative proposed decision shall be issued as a tentative decision and the District shall be entitled to modify, deny or adopt the proposed decision. The proposed decision shall contain a recommendation regarding whether the Contractor should be debarred, and, if so, the appropriate length of time of the debarment. The Contractor and the District shall be provided an opportunity to object to the tentative proposed decision for a period of 15 days. If additional evidence is presented, the District shall evaluate this evidence and either issue an amended ruling, issue the same ruling, or call a further hearing.

If a Contractor has been debarred for a period of longer than five (5) years, that Contractor may after the debarment has been in effect for at least five (5) years, submit a written request for review of the debarment determination to reduce the period of debarment or terminate the debarment. The District may, in its discretion, reduce the period of debarment or terminate the debarment if it finds that the Contractor has adequately demonstrated one or more of the following: (1) elimination of the grounds for which the

debarment was imposed; (2) a bona fide change in ownership or management; (3) material evidence discovered after debarment was imposed; or (4) any other reason that is in the best interests of the District.

The District will consider a request for review of a debarment determination only where: (1) the Contractor has been debarred for a period longer than five (5) years; (2) the debarment has been in effect for at least five (5) years; and (3) the request is in writing, states one or more of the grounds for reduction of the debarment period or termination of the debarment, and includes supporting documentation. Upon receiving an appropriate request, the District will provide notice of the hearing on the request. At the hearing, the District shall review evidence on the proposed reduction of debarment period. This hearing shall be conducted and the request for review decided by the District pursuant to the same procedures as for a debarment hearing.

The District's proposed decision shall contain a recommendation on the request to reduce the period of debarment or terminate the debarment.

The terms shall also apply to Subcontractors of Contractor.

SUPPLEMENTARY GENERAL CONDITIONS

Project Allowance:

Allowance: $50,000

Any change orders approved by the District in accordance with the Contract Documents shall first be taken out of the allowance listed above. Allowances for each category are to be included in the total base bid amount and shall include all costs of coordination, supervision, bond costs, overhead and profit, supervision, installation and all indirect Project costs associated with performing the work of covered by the Allowance. Contractor shall be permitted to charge only its direct costs to perform the work, as indicated through documentation approved by the District. Allowances shall be listed as a separate line item when submitting the schedule of values. Any mark ups over the amounts listed on the schedule of values will not be allowed. Any remaining allowance balance available at the completion of the Project shall be credited to the District by a change order. Contractor shall not deduct any costs including, but not limited to, bond costs, overhead and profit or other indirect costs when returning any unused Allowance amount.

Builder's Risk:

Notwithstanding Article 11.3, CONTRACTOR shall maintain Builder's Risk Insurance.

Insurance:

The following insurance will **NOT** be required for this project.

Insurance Covering Special Hazards

The following Special hazards shall be covered by riders or riders to above mentioned public liability insurance or property damage insurance policy or policies of insurance, in amounts as follows:

(a)	Automotive and truck where operated in amounts	$1,000,000.00
(b)	Material Hoist where used in amounts	$1,000,000.00
(c)	Explosion, Collapse and Underground (XCU coverage)	$1,000,000.00
(d)	Hazardous Materials	$1,000,000.00

Davis Bacon Act:

The Project to which the construction Work covered by this Agreement pertains is being assisted by the United States of America and the following Federal Labor Standards are included in this Agreement pursuant to the provisions applicable to such Federal Assistance. In each case that the term "contractor" is stated within this Supplemental Conditions Exhibit, it shall mean the "Contractor" as defined in the Agreement. In each case

that the term "subcontractor" is stated within this Supplemental Conditions Exhibit, it shall mean any and all subcontractors to the Contractor, and each such subcontractor's subcontractor, through all tiers. Notwithstanding the foregoing, in each case that the term "contractor or subcontractor" is stated within this Supplemental Conditions Exhibit, it shall mean the Contractor and any and all subcontractors to the Contractor, and each such subcontractor's subcontractor, through all tiers. These Supplemental Conditions ("Supplemental Conditions") contain supplemental terms and conditions which shall be applicable to the Agreement. These Supplemental Conditions are meant to supplement, and not replace, the terms and conditions of the General Conditions unless specifically noted otherwise. Contractor shall comply with the following requirements of the Federal Davis-Bacon Act which are set forth below in accordance with 29 Code of Federal Regulations section 5.5:

I. The Contractor agrees to the following conditions for any contract in excess of $2,000.00

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. The District shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract

subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the District may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii)(A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Government if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Government. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Federal Government if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor,

or owner, as the case may be, for transmission to the Federal Government, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency or the applicant District.

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the Federal Government or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide

apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee

performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the Federal Government may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

II. In addition to the requirements stated above in Section I for contracts in excess of $2,000.00, the Contractor agrees to the following conditions for contracts in excess of $100,000:

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work

which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The District shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

The contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the Federal Government and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

IMMEDIATE CONSTRUCTION CHANGE DIRECTIVE NO.

PROJECT: _____

TO: _____

You are hereby directed to provide the extra work necessary to comply with this ICD.

DESCRIPTION OF CHANGE: _____

_____

COST (This cost shall not be exceeded): _____

TIME FOR COMPLETION: _____

NOTE:

Pursuant to Article 7.3.1.2 An Immediate Change Directive is a written order to the Contractor prepared by the Architect and signed by the District (and CM if there is a CM on the Project) and the Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The District may by ICD, without invalidating the Contract, direct immediate changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions within. If applicable, the Contract Sum and Contract Time will be adjusted accordingly. CONTRACTOR SHALL PROCEED WITH WORK SET FORTH IN THIS ICD IMMEDIATELY UPON RECEIPT OR THE DISTRICT MAY EITHER HOLD THE CONTRACTOR IN EITHER PARTIAL DEFAULT PURSUANT TO ARTICLE 2.2 OR TOTAL DEFAULT PURSUANT TO ARTICLE 14.

_____
Architect

_____
District

CHILDREN & FAMILY SERVICES WEST PORTABLE

CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

RUHNAU CLARKE ARCHITECTS

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CONTACT LIST

Owner
Jurupa Unified School District
4850 Pedley Rd
Jurupa Valley, CA, 92509
Phone: *951-360-4100*
Contact: *Robin Griffin*
robin_griffin@jusd.k12.ca.us

Architect
Ruhnau Clarke Architects
3775 Tenth St., Riverside, CA 92501
Phone:951.684.4664
Contact: *Ben Gallardo*
bgallardo@ruhnauclarke.com
Contact: *Roger Clarke*
rclarke@ruhnauclarke.com

Civil
Rick Engineering
1770 Iowa St, Suite 100
Riverside, CA, 92507
Phone: *951-782-0707*
Contact: *Dennis Armstrong*
dgarmstrong@rickengineering.com

Landscape
Cornerstone Studios
951 Santa Ana
Santa Ana, CA, 92701
Phone: *714-973-2200*
Contact: *Jeff Kim*
jeff@csstudios.com

Electrical
DCGA Engineering
4750 East Ontario Mills Parkway
Ontario, CA, 91764
Phone: *909-987-0017*
Contact: *Chris Villalobos*
chris.villalobos@dcgaengineering.com

Modular Building
American Modular Systems
27440 Via Industria
Temecula, CA 92590
Phone: *951-395-1921*
Contact: *Clinton Branscom*
clinton.b@americanmodular.com

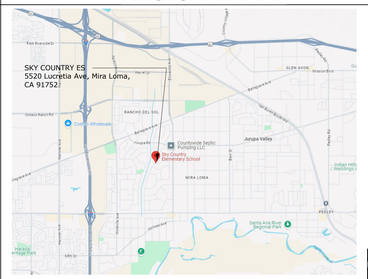
TYPICAL ABBREVIATIONS

@	AT	INT	INTERIOR	UOS	UNDERSIDE OF STRUCTURE
&	AND				
<	ANGLE	JH	JOIST HANGER		
#	POUND OR NUMBER	JT	JOINT	VC	VINYL COATED
		JST	JOIST	VCB	VENTED COVED BASE
ACP	ACOUSTICAL CEILING PANEL			VCT	VINYL COMPOSITION TILE
ACT	ACOUSTICAL CEILING TILE	L	LIGHT	VERT	VERTICAL
AD	AREA DRAIN	LAM	LAMINATE	VIF	VERIFY IN FIELD
AFF	ABOVE FINISHED FLOOR	LO	LOW	VSF	VINYL SHEET FLOORING
ALUM	ALUMINUM	LT	LIGHT	VTR	VENT THROUGH ROOF
AWP	ACOUSTICAL WALL PANEL	LVR	LOUVER	VWC	VINYL WALL COVERING
		LVT	LUXURY VINYL TILE		
BD	BOARD			W/	WITH
BLKG	BLOCKING	MACH	MACHINE	W/O	WITHOUT
BOS	BOTTOM OF STRUCTURE	MAX	MAXIMUM	WACP	WASHABLE ACOUSTIC CEILING PANEL
BOT	BOTTOM	MANF	MANUFACTURER		
BYND	BEYOND	MECH	MECHANICAL	WAF	WOOD ATHLETIC FLOORING
		MFR	MANUFACTURER		
CAB	CABINET	MH	MANHOLD	WD	WOOD
CBU	CEMENT BACKER UNIT	MIN	MINIMUM	WI	WOODWORKING INSTITUTE
CF	CUBIC FEET	ML	METAL LATH		
CIP	CAST IN PLACE	MO	MASONRY OPENING	WIN	WINDOW
CJ	CONTROL JOINT	MS	METAL STUD	WP	WALL PADDING
CL	CENTERLINE	MTD	MOUNTED	WWF	WELDED WIRE FABRIC
CLF	CHAIN LINK FENCE	MTL	METAL		
CLG	CEILING	MPS	METAL PANEL SYSTEM		
CLR	CLEAR				
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT		
COL	COLUMN	NTS	NOT TO SCALE		
CONC	CONCRETE	NO	NUMBER		
CONT	CONTINUOUS				
CPL	CEMENT PLASTER	OC	ON CENTER		
CPT	CARPET	OD	OUTSIDE DIAMETER		
		OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED		
DBL	DOUBLE				
DDC	DOUBLE DETECTOR CHECK	OFOI	OWNER FURNISHED/ OWNER INSTALLED		
DEMO	DEMOLISH OR DEMOLITION				
DET	DETAIL	OH	OPPOSITE HAND/ OVERHEAD		
DF	DRINKING FOUNTAIN				
DIA	DIAMETER	OPNG	OPENING		
DIM	DIMENSION	OPP	OPPOSITE		
DL	DOOR LOUVER	OZ	OUNCE		
DN	DOWN				
DP	DEMOUNTABLE PARTITION	P	PAINT OR PAINTED		
DR	DOOR	PA	PLANTING AREA		
DRF	DOOR FRAME	PCC	PRE-CAST CONCRETE		
DS	DOWN SPOUT	PFIN	PRE FINISHED		
DSA	DIVISION OF STATE ARCHITECT	PIV	POST-INDICATOR VALVE		
		PL	PLATE/PROPERTY LINE		
DWGS	DRAWINGS	PLAM	PLASTIC LAMINATE		
		PLAST	PLASTIC		
(E)	EXISTING	PLUMB	PLUMBING		
EA	EACH	PLWD	PLYWOOD		
EJ	EXPANSION JOINT	PT	PRESSURE TREATED		
EL	ELEVATION	PTD	PAINTED		
ELEV	ELEVATOR	PTN	PARTITION		
ENCL	ENCLOSURE	PVC	POLYVINYL CHLORIDE		
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)	R	RADIUS		
EQ	EQUAL	RB	RUBBER BASE		
EQUIP	EQUIPMENT	RCP	REFLECTED CEILING PLAN		
EW	EACH WAY	RD	ROOF DRAIN		
EWC	ELECTRIC WATER COOLER	REF	REFERENCE		
EXIST	EXISTING	REINF	REINFORCED		
EXT	EXTERIOR	RES	RESINOUS FLOORING		
		REQ	REQUIRED		
FC	FINISH CEILING	RM	ROOM		
FD	FLOOR DRAIN	RO	ROUGH OPENING		
FDC	FIRE DEPARTMENT CONNECTION	RQMT	REQUIREMENT		
		RS	ROLLER SHADE		
FE	FIRE EXTINGUISHER	RT	RUBBER TREAD		
FEC	FIRE EXTINGUISHER CABINET	SAF	SYNTHETIC ATHLETIC FLOORING		
FF	FLOOR FINISH/FACTORY FINISH	SB	SPLASH BLOCK		
FFE	FURNISHINGS, FIXTURES, & EQUIPMENT	SC	SOLID CORE		
		SHT	SHEATHING		
FG	FINISH GRADE	SIM	SIMILAR		
FH	FIRE HYDRANT	SPEC	SPECIFICED OR SPECIFICATION		
FHC	FIRE HOSE CABINET				
FIN	FINISH	SS	STAINLESS STEEL		
FLR	FLOOR	SSM	SOLID SURFACE MATERIAL		
FND	FOUNDATION				
FO	FACE OF	STC	SOUND TRANSMISSION COEFFICIENT		
FOF	FACE OF FINISH				
FOM	FACE OF MASONRY	STD	STANDARD		
FOS	FACE OF STUD	ST	STAIN		
FR	FIRE RISER	STL	STEEL		
FRP	FIBERGLASS REINFORCED PANEL	STRUCT	STRUCTURE OR STRUCTURAL		
FS	FINISH SURFACE	SUSP	SUSPENDED		
FURN	FURNISH/FURNITURE	SV	SHEET VINYL FLOORING		
G	GROUT	T	TILE		
GA	GAUGE	TB	TACK BOARD		
GALV	GALVANIZED	TC	TOP OF CONCRETE CURB		
GB	GRAB BAR	TEL	TELEPHONE		
GL	GLASS	TEMP	TEMPORARY		
GLULAM	GLUE LAMINATED	T&G	TONGUE AND GROOVE		
GWB	GYPSUM WALLBOARD	TJ	TOOLED JOINT		
GWWB	WATER RESISTANT GWB	TO	TOP OF		
		TOC	TOP OF CONCRETE/TOP OF CANOPY		
H	HIGH				
HC	HOLLOW CORE	TOD	TOP OF DRAIN		
HDW	HARDWARE	TOP	TOP OF PARAPET		
HM	HOLLOW METAL	TOR	TOP OF ROOF		
HORIZ	HORIZONTAL	TOS	TOP OF SHEATHING		
HP	HIGH POINT	TOW	TOP OF WALL		
HR	HOUR	TS	TUBE STEEL		
HT	HEIGHT	TSB	TOP SET BASE		
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	TPD	TOILET PAPER DISPENSER		
		TWP	TACKABLE WALL PANEL		
		TYP	TYPICAL		
ICB	INTEGRAL COVED BASE				
ID	INSIDE DIAMETER	UC	UNDERCUT/UNDER		
IGU	INSULATED GLAZING UNIT		COUNTER		
ILO	IN LIEU OF	UNO	UNLESS NOTED		
INSUL	INSULATION		OTHERWISE		

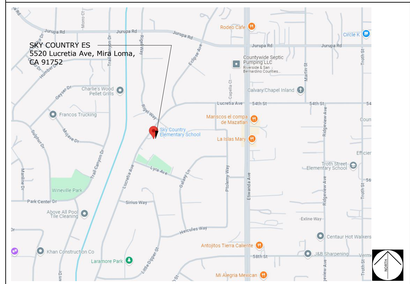
GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES.
2. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SAFETY PLAN. REFER TO DSA PUBLICATION BU 24-05 FOR FURTHER INFORMATION.
3. CONTRACTOR WILL BE REQUIRED TO PROVIDE AND INSTALL ALL EQUIPMENT AND RELATED ITEMS AS SHOWN IN THESE DOCUMENTS AND AS SPECIFIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID AND TO DETERMINE THE WORK NECESSARY TO COMPLETE THE PROJECT.
4. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) AND SECTION 4-333.
5. STRUCTURAL MODIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (C.C.D.) APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
6. A PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR IS DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R. THE INSPECTOR SHALL BE ESPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK AND HAVE SUCCESSFULLY COMPLETED THE REQUIRED DSA CERTIFICATION PROCESS FOR CLASS ***3+RBIP-PC*** INSPECTOR OF RECORD AND A R.B.I.P.
7. THE ARCHITECT OF RECORD SHALL HAVE THE RIGHT TO MAKE FINAL JUDGMENTS RELATIVE TO SUBMITTAL DRAWING REVISIONS IN ORDER TO ENSURE COMPLIANCE WITH ENGINEERING STANDARDS, APPLICABLE CODES, AND ARCHITECTURAL INTENT.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF INFORMATION SHOWN ON AVAILABLE DOCMENTS. ANY DAMAGE TO EXISTING CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN HEREON.
10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUACY AND SAFETY OF THE DESIGN/ERECTION OF BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING.
11. UNDER NO CIRCUMSTANCE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE DRAWINGS.
12. ALL STANDARDS, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE STATE BUILDING CODES, ORDINANCES, REGULATIONS, AND LAWS.
13. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
14. ITEMS MARKED "TYP." OR "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF REQUIREMENTS BETWEEN THE DISCIPLINES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL, ETC.) AND BETWEEN DRAWING AND SPECIFICATION IN ORDER TO ENSURE THAT ALL ITEMS SHOWN IN RELATIONSHIP TO ONE ANOTHER OR SHOWN IN MULTIPLE LOCATIONS ARE IN AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DISCREPANCIES, ERRORS, OMISSIONS OR INCONSISTENCIES AND SHALL NOT PROCEED WITH THE WORK UNTIL CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.
16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR)
17. GRADING PLANS DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. INSPECTOR OF RECORD (IOR CLASSIFICATION 1).
18. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK (SECTION 4-317(c), PART 1, TITLE 24, CCR).
19. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).
20. SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR INSTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.
21. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
22. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
ENVELOP EAND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
A LISTING OF CERTIFIED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance.
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDOR OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
23. A WRITTEN SITE SAFETY PLAN IN COMPLIANCE WITH CFC 3303.1.1 MUST BE PREPARED AND AVAILABLE ON SITE PRIOR TO COMMENCEMENT OF ANY MOBILIZATION, DEMOLITION, AND/OR CONSTRUCTION.

REGIONAL MAP



SITE MAP



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES
2025 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

APPLICABLE STANDARDS
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

APPLICABLE AGENCIES

STATE OF CALIFORNIA

DEPARTMENT OF GENERAL SERVICES
DIVISION OF THE STATE ARCHITECT
10920 VIA FRONTERA ROAD, STE. 300
SAN DIEGO, CA 92127
TEL: (858) 674-5400

CITY OF JURUPA VALLEY
8930 LIMONITE AVENUE
JURUPA VALLEY, CA 92509
TEL: (951) 332-6464

SHEET INDEX

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G-2 CODE ANALYSIS SITE PLAN
G-3 FIRE AUTHORITY SITE PLAN

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SPC-2 SPECIFICATIONS
SPC-3 SPECIFICATIONS
SPC-4 SPECIFICATIONS
SPC-5 SPECIFICATIONS
SPC-6 SPECIFICATIONS
SPC-7 SPECIFICATIONS

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C-1.0 TITLE SHEET
C-2.0 DEMOLITION PLAN
C-3.0 PRECISE GRADING PLAN
C-4.0 SECTIONS & DETAILS
C-5.0 SEWER & WATER PLAN
C-6.0 HORIZONTAL CONTROL PLAN

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L1.2 IRRIGATION DETAILS
L1.3 IRRIGATION SPECIFICATIONS
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L2.2 LANDSCAPE DETAILS
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E-0.2 ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND COMMUNICATION RISER DIAGRAM
E-0.3 LIGHTING FIXTURE SCHEDULE AND NOTES
E-0.4 SINGLE LINE DIAGRAM
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ELECTRICAL
ES-1.1 ELECTRICAL SITE PLAN

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E-2.2 FIRE ALARM PLAN
E-3.1 FIRE ALARM SYMBOLS AND NOTES
E-3.2 FIRE ALARM WIRING DIAGRAMS
E-3.3 FIRE ALARM WIRING DIAGRAMS
E-3.4 FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS
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T-2.0 UNIT SELECTION
T-3.0 T&I FORMS

SHADE STRUCTURE PC-04-12350
5.1-1000 DSA401203012-22
5.2-2000 DSA401203012-22

PORTABLE DRAWINGS A#04-122040
TS TITLE SHEET
TS2 SHEET INDEX
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PORTABLE DRAWINGS A#04-122040
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N3.0 TYPICAL SCHEDULES DOORS, WINDOWS & FINISHES
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EN.22 ENERGY CALCULATIONS 48X40 BUILDING GROUP 'C'
EN.23 ENERGY CALCULATIONS 48X40 BUILDING GROUP 'C'
EN.26 ENERGY CALCULATIONS SUPPLEMENTAL SHEETS
EN.27 ENERGY CALCULATIONS SUPPLEMENTAL SHEETS
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A1.0 TYPICAL FLOOR PLAN
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A4.1 INTERIOR ELEVATIONS RESTROOM OPTIONS
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S-0.0 LIGHT GAUGE STEEL MEMBER PROPERTIES
S-2.1 WOOD FOUNDATION PLAN 50 PSF LIVE LOAD + 15 PSF PARTITION LOAD
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S-5.0 MOMENT FRAME ELEVATIONS & DETAILS
S-5.1 MOMENT FRAME CONNECTION DETAILS
S-8.0 WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
S-8.1 WALL FRAMING DETAILS - WOOD STUDS
S-10.0 TYPICAL RAMP PLANS & NOTES
S-10.1 RAMP DETAILS

PORTABLE DRAWINGS A#04-122040
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M1.0-N REFLECTED CEILING PLAN
M1.1 TYPICAL MECHANICAL PLAN OPTIONS
M1.1-N MECHANICAL PLAN
M1.4 MECHANICAL AND CEILING DETAILS
M1.5 MECHANICAL AND CEILING DETAILS
M1.5A CEILING & MECHANICAL DETAILS
M1.6 MECHANICAL ROOF DETAILS
M1.7 CEILING NOTES & SPECIFICATIONS
M1.7A MECHANICAL NOTES & SCHEDULES

PORTABLE DRAWINGS A#04-122040
E1.0 TYPICAL ELECTRICAL PLAN
E1.0-N TYPICAL ELECTRICAL PLAN
E1.2 ELECTRICAL NOTES & DETAILS
E1.2-N ELECTRICAL NOTES & DETAILS
P1.0 RESTROOM OPTIONS PLUMBING PLANS & FIXTURE SCHEDULE
P1.0-N RESTROOM OPTIONS PLUMBING PLANS & FIXTURE SCHEDULE
P2.0 PLUMBING DETAILS & ACCESSIBLE DETAILS
P3.0 PLUMBING ISOMETRICS DRAWINGS

A#67020 / PC 275
A0.0 COVER SHEET
A1.0A FLOOR PLAN
A2.0A ROOF PLAN
F1.1 FOUNDATION PLAN
F3.0 FOUNDATION DETAILS
S1.0 FLOOR FRAMING PLAN
S1.2 STRUCTURAL DETAILS
S2.0A ROOF FRAMING PLAN

PC #04-119501
1 COVER SHEET
2 ACCESSIBLE RAMP ELEVATIONS & DETAILS
3 ACCESSIBLE RAMP DETAILS & NOTES
4 DETAILS AND NOTES
5 ACCESSIBLE RAMP SWITCHBACK DETAILS
6 STAIRS OPTIONAL
7 ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK
8 ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS
TOTAL SHEET COUNT: 128

STATEMENT OF GENERAL CONFORMANCE

STATEMENT OF GENERAL CONFORMANCE

Application No.: 04-124109

File No.: 33-19

The drawings identified as follows:

☑ All drawing sheets included in this set not bearing my stamp and signature.
☐ Drawing sheets denoted in the sheet index as follows: _____
☐ Drawing sheets included under the following PC approval(s): _____

have been prepared by other design professionals or consultants who are licensed and authorized to prepare such drawings (plans) in this state. They have been examined by me for:

1) Design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) Coordination with my drawings (plans) and specifications and are acceptable for incorporation into the construction of this project.

Per Title 24, Part 1, Section 4-316(b): This Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1.

Signature — Date: 1.12.26

Roger Clarke — C21340 — 10.31.27
Printed Name — License Number — Expiration Date

SCOPE OF WORK

1. CONSTRUCTION OF NEW 48 x 40 SQ. FT. FAMILY SERVICE BLDG "K"
2. RELOCATION OF 40 X 36 MODULAR BUILDING FROM TROTH STREET ELEMENTARY SCHOOL PARENT CONFERENCE BUILDING "L"
3. NEW PARKING LOT AND SITE WORK

ARCHITECTURAL SYMBOLS

BUILDING SECTION
DIRECTION OF VIEW CUT
DIRECTION OF VIEW
VIEW ON SHEET
SHEET ON WHICH DETAIL OCCURS

EXTERIOR ELEVATION
DIRECTION OF VIEW
VIEW ON SHEET
SHEET ON WHICH DETAIL OCCURS

DETAIL REFERENCE TO DRAWINGS
VIEW ON SHEET
SHEET ON WHICH DETAIL OCCURS
DIRECTION OF VIEW

ROOM TAGS
ROOM NAME
ROOM NUMBER

RCP ROOM TAGS
CEILING HEIGHT A.F.F.

EGRESS ROOM TAGS
OCCUPANT LOAD
OCCUPANT LOAD FACTOR

KEYNOTE
CONSTRUCTION KEY NOTE
NUMBER
ASSOCIATED DETAIL REFERENCE

CASEWORK IDENTIFICATION:
DEPTH
HEIGHT
INDICATES SPECIAL CONDITION
W.I.C. NUMBER
LENGTH
LOCK
EXPLANATION OF SPECIAL CONDITION IF NEEDED

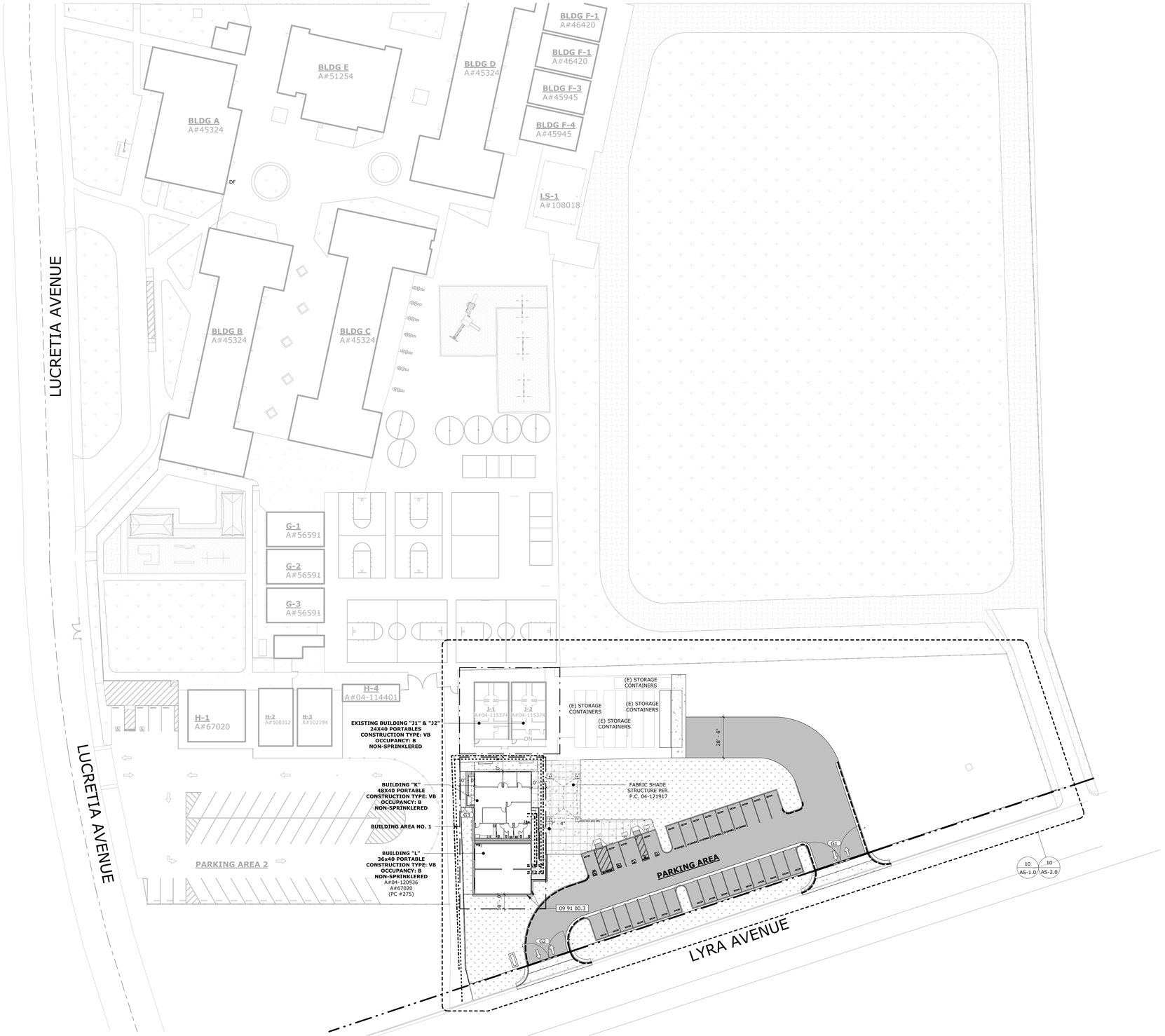
DOOR TAG
DOOR RATING

WINDOW TAG

INTERIOR ELEVATION
INTERIOR ELEVATION VIEW
SHEET ON WHICH INTERIOR ELEVATION OCCURS

CODE ANALYSIS: ALLOWABLE BUILDING AREA

BUILDING AREA	BUILDING	OCCUPANCY USE	CONSTRUCTION TYPE	ALLOWABLE STORIES	ACTUAL STORIES	MAX. BUILDING HEIGHT ALLOWED	ACTUAL BUILDING HEIGHT	MAX ALLOWED WITHOUT AREA INCREASE (SF)	ACTUAL BUILDING AREA (SF)	AUTOMATIC SPRINKLER SYSTEM	MIXED OCCUPANCY	FRONTAGE INCREASE	OPENINGS (PER CBC 2022 TABLE 705.8)	REMARKS
1	BLDG A 48x40 BLDG B 36X40	B	TYPE V-B	2	1	40'-0"	12'-10"	9,000 SF	1,920 SF + 1,440 SF = 3,360 SF < 9,000 SF	NO	N/A	N/A	N/A	N/A
2	FABRIC SHADE STRUCTURE	A-3	TYPE V-B			12'-0"	12'-0"		600 SF	NO	N/A	N/A	N/A	N/A



OVERALL SITE PLAN CODE ANALYSIS — SCALE: 1" = 30'-0" — 10

AGENCY APPROVAL
File No: ########/##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

DSA A#	CERTIFICATION
04-100312	#1 CERTIFICATION
04-102194	#1 CERTIFICATION
04-108018	#1 CERTIFICATION
04-114401	#1 CERTIFICATION
04-115374	#1 CERTIFICATION
04-116211	#1 CERTIFICATION

KEYNOTES

GATE SCHEDULE

GATE NO	GATE MEASUREMENTS WIDTH	HEIGHT	MATERIAL	FINISH	HDWR GROUP	DETAIL	PANIC	NOTES
G1	39' - 2"	8' - 0"	ORN	BLACK	--	4/ASD-2	--	1
G2	30' - 0"	8' - 0"	ORN	BLACK	--	4/ASD-2	--	1
G3	3' - 0"	8' - 0"	ORN	BLACK	--	17/ASD-2		

NOTES:
1. DOUBLE GATES HALF OF WIDTH NOTED.

PARKING COUNT

PARKING LOT	NUMBER OF STD. PARKING SPACES	ACCESSIBLE REQUIRED (VAN INCLU.) STD.	VAN	ACCESSIBLE PROVIDED STD.	VAN	TOTAL PARKING SPACES
PARKING LOT	27	1	1	1	1	29
TOTAL	**27**	**1**	**1**	**1**	**1**	**29**

NUMBER OF REQUIRED EV STALLS PER CALGREEN TABLE 5.106.5.6.1

PARKING LOT	# OF EV & EVCS CAPABLE SPACES REQ. EV	EVCS	# OF EV CAPABLE SPACES PROVIDE STD	VAN	# OF EVCS CAPABLE SPACES PROVIDED @ ADA STD.	VAN	TOTAL # OF EV AND EVCS SPACES PROVIDED
PARKING LOT 1	6	2	6	0	1	1	8
TOTAL	6	2	6	0	1	1	8

LEGEND

- SITE PROPERTY LINE
- ASSUMED PROPERTY LINE
- SCOPE OF WORK LIMIT
- PATH OF EGRESS TO PUBLIC RIGHT-OF-WAY OR SAFETY DISERPSAL AREA PER PLAN

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS, AS PART OF THE DESIGN OF THE PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE ONE-COMPLIANT 1.) HAVE BEEN IDENTIFIED AND 2.) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS, ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL, TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE
ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2 INCHES IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4 INCHES MAXIMUM AND AT LEAST 48 INCHES IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTED FREE OF INCHES FROM THE WALL, ABOVE 27 INCHES AND LESS THAN 80 INCHES ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

- CONCRETE PAVING (CONC-1), SEE DETAILS FOR ADDITIONAL INFORMATION, SEE CIVIL DRAWINGS — 17/ASD-1, 16/ASD-1
- ASPHALT PAVING, SEE DETAIL FOR ADDITIONAL INFORMATION, SEE CIVIL DRAWINGS — 4/ASD-1
- LANDSCAPE PER LANDSCAPE DRAWINGS
- EXISTING FENCE TO REMAIN, PROTECT IN PLACE.
- ORNAMENTEL FENCE PER PLANS

PROJECT No. :1-41-58
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DRAWN BY:
DELTA # _____ DATE _____
DELTA # _____ DATE _____
DELTA # _____ DATE _____
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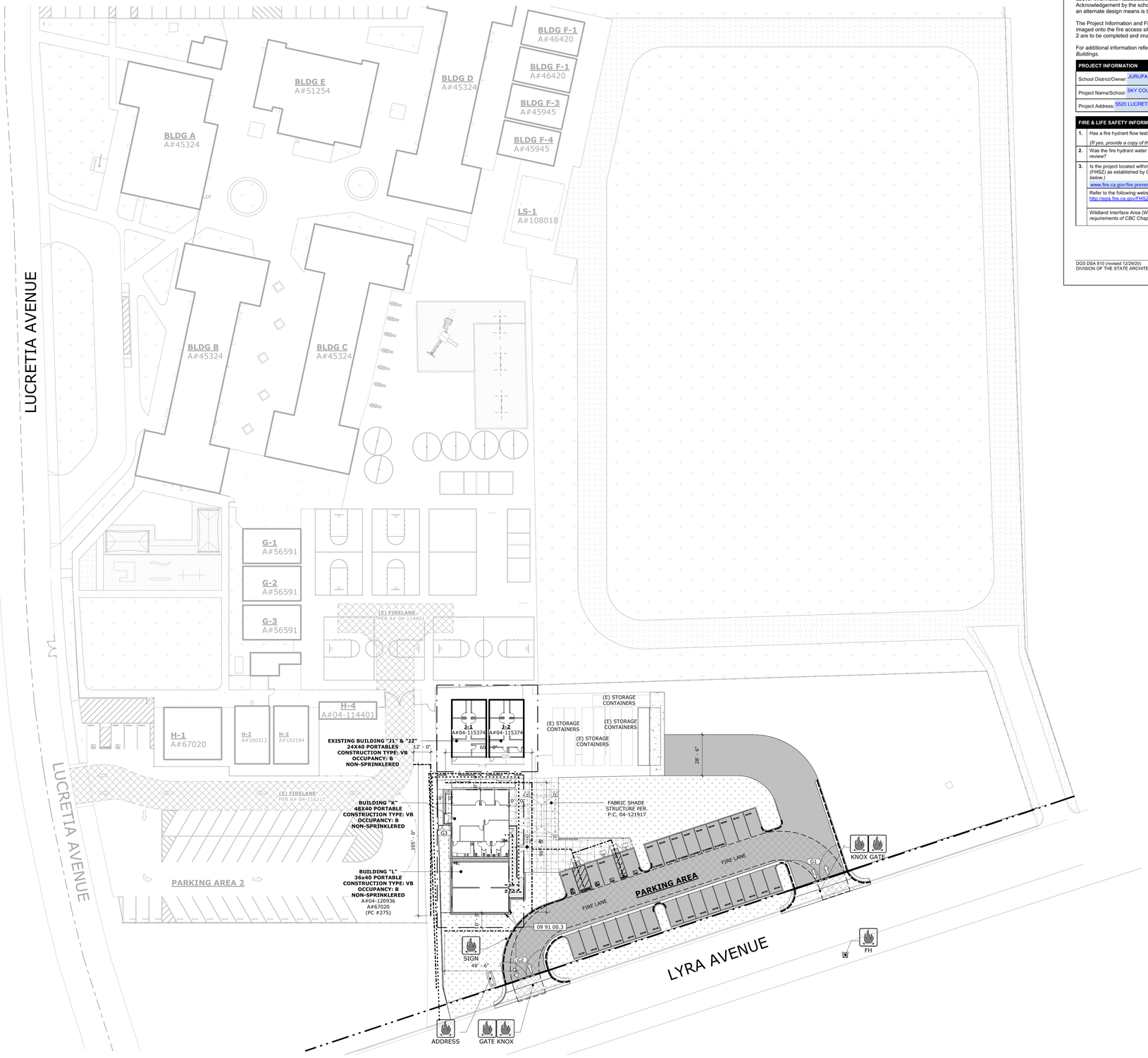
CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

CODE ANALYSIS SITE PLAN

G-2

1-41-58

CHILDREN & FAMILY SERVICES WEST PORTABLE:



DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	JURUPA UNIFIED SCHOOL DISTRICT
Project Name/School:	SKY COUNTRY ELEMENTARY SCHOOL
Project Address:	5520 LUCRETIA AVENUE, MIRA LOMA, CA 91752

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	www.fire.ca.gov/fire prevention/fire prevention wildland zones maps			
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

STAMPS

AGENCY APPROVAL
File No.: ########/##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CONSULTANT BRANDING

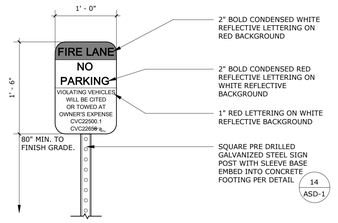
RUHNAU CLARKE ARCHITECTS

LEGEND

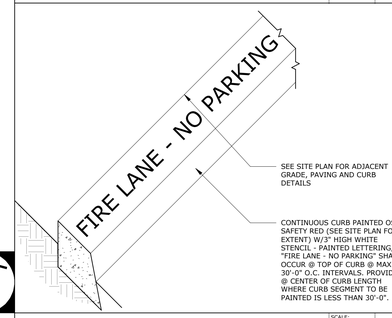
20' - 0" U.N.O. FIRE LANE — INDICATES 20'-0" MIN. WIDE DRIVES, FIRE TRUCK ACCESS LANE WITH NOT LESS THAN 13'-6" VERTICAL CLEARANCE PER CFC 2022 EDITION. CONTRACTOR TO PROVIDE ALL REQUIRED PAINTING OR CURBS AND PROVIDE ALL SIGNAGE PER LOCAL FIRE AUTHORITY REQUIREMENTS.

R-45' — R-20' - 0" — INDICATES MINIMUM TURNING RADIUS FOR THE FIRE TRUCK ACCESS

- FH — FIRE HYDRANT PER CIVIL DRAWINGS
- GATE — 20'-0" MIN. WIDE FIRE TRUCK ACCESS GATES
- PIV — POST INDICATOR VALVE PER CIVIL DRAWINGS
- ADDRESS — LOCATION OF MAIN SCHOOL ADDRESS (MONUMENT SIGN AT ENTRANCE)
- DDC — DOUBLE DETECTOR CHECK PER CIVIL DRAWINGS
- FDC — FIRE DEPARTMENT CONNECTION PER CIVIL DRAWINGS
- KNOX — KNOX PADLOCK FOR ENTRY KEY (MIN. KNOX BOX 3200 SERIES MODEL)
- SIGN — FIRE LANE SIGNAGE PER DETAIL 4 / G-3
- CONTINUOUS CURB PAINTED OSHA SAFETY RED W/3" HIGH WHITE STENCIL PAINTED "FIRE LANE - NO PARKING" LETTERING PER DETAIL 5 / G-3
- FIRE DEPARTMENT WALKING ACCESS (150 FT MAX FROM FIRE LANE)
- AVERAGE SPACING BETWEEN HYDRANTS IN FEET PER TABLE CC105.1 FIRE FLOW REQUIREMENT (GPM) ESTIMATED UNDER 1,750 GPM, BASED ON TABLE CC105.1 MINIMUM NO. OF HYDRANTS EQUALS 1, AVERAGE SPACING BETWEEN HYDRANTS IS 500' AND MAXIMUM DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT IS 250'.



FIRE LANE SIGN | SCALE: 1" = 1'-0" | 4



FIRE LANE CURB | SCALE: 1 1/2" = 1'-0" | 5

CHILDREN & FAMILY SERVICES WEST PORTABLE:

OVERALL SITE PLAN FIRE AUTHORITY | SCALE: 1" = 30'-0" | 10

PROJECT No. :1-41-58
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CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

FIRE AUTHORITY SITE PLAN

G-3

1-41-58

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

SECTION 00 01 10
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33 14 16 - Site Water Utility Distribution Piping
33 31 13 - Site Sanitary Sewerage Gravity Piping

END OF SECTION

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 10 00
SUMMARY

PART 1 GENERAL

1.01 DESCRIPTION OF ALTERATIONS WORK

A. Scope of demolition and removal work is indicated on drawings and specified in Section 02 41 00.

B. Scope of alterations work is indicated on drawings.

1.02 WORK BY DISTRICT

A. Concurrent Work Under Separate Contracts:
   1. Work Under Separate Contracts: District may award separate contracts for products and installation for improvements and other work as may be indicated on Drawings as NIC (Not in Contract).

B. Items noted NIC (Not in Contract) will be supplied and installed by District before Date of Substantial Completion.
   1. Movable cabinets.
      a. Storage cabinets and cubbies.
   2. Furnishings.
      a. Window treatment.
   3. Small equipment.
      a. Classroom technology devices e.g. computers, laptops, charging carts, document camera.
      b. Network switches
      c. Projectors
      d. Wireless access points

1.03 PERMITS, LICENSES AND FEES

A. Permits:
   1. For Work included in the Contract, Contractor shall obtain all permits from authorities having jurisdiction and from serving utility companies and agencies.
   2. District will reimburse Contractor for amount charged for such permits, without mark-up.
   3. For Work performed under design/build basis, plan check and permit fees shall be included in the Contract Sum.

SECTION 01 20 00
PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SCHEDULE OF VALUES

A. Use Schedule of Values Form: Form provided by District.

1.02 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.
   1. Substantiating information will normally be required only for those portions of Work whose completion state cannot be readily determined by observation of the completed Work.

B. Use Form Form as provided by District.

C. Execute certification by signature of authorized officer.

D. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.

E. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of work.

F. Submit one electronic and three hard-copies of each Application for Payment.

1.03 MODIFICATION PROCEDURES

A. Submit name of the individual authorized to receive change documents and who will be responsible for informing others in Contractor's employ or subcontractors of changes to Contract Documents.

B. For minor changes not involving an adjustment to the Contract Sum or Contract Time, Architect will issue instructions directly to Contractor.

C. For other required changes, not involving structural, accessibility, or fire-life-safety portions of approved Drawings and Specifications, Architect will issue a document signed by District instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.

D. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

E. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.

1.04 APPLICATION FOR FINAL PAYMENT

A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.

END OF SECTION

SECTION 01 23 00
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

1.02 RELATED REQUIREMENTS

A. Refer to Sections indicated in Alternate descriptions and as may be determined to be related to Work affected by alternate products and scope descriptions.

1.03 ALTERNATES DEFINED

A. Alternates are defined as alternate products, materials, equipment, systems, methods or major elements of construction, which may, at District's option and under terms established in the Agreement, be selected for the Work instead of the corresponding requirements of the Contract Documents.

1.04 GENERAL REQUIREMENTS FOR ALTERNATES

A. To enable District to compare total costs where alternate materials and methods might be used, Alternates described in this Section have been established.

B. Contract Sum included in Base Bid and as stated in executed Agreement shall include all costs for Work described in Contract Documents.

C. Contract Sum shall include all necessary provisions for Work described in Alternates, whether or not Alternates are accepted.

D. Bid Form or other means prescribed for submission of proposed cost of Work shall include line items for each Alternate described in this Section. No Alternates other than as described in this Section shall be submitted, except as otherwise provided in Section 01 6000 - Product Requirements for product options and substitutions.

E. Each Alternate is identified herein by number. This identification shall be used whenever referring to Work described in Alternate and when submitting cost proposals and payment requests.

F. Changes described in Alternates shall be incorporated into Work only when such Alternate is made a part of the Work by specific provision in the Owner-Contractor Agreement, if selected by District prior to execution of the Agreement, or by Change Order if selected subsequent to execution of Agreement.

G. Costs for Alternates shall be valid for no less than sixty (60) days from date of Agreement and District may select to any or all Alternates during that time. Once an Alternate is selected and the Contract modified to Work as described in the Alternate, changes to return to original scope of Work will be made only by Change Order in accordance with provisions of the General Conditions for changes.

1.05 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at District's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

C. Products and Execution:
   1. If District elects to proceed on the basis of one or more of the described Alternates, Contractor shall make all modifications to Work as required to provide products complete, in place and fully functional, including all labor, equipment, services and incidental consumables necessary to apply, install and finish Work described in Alternate in accordance with requirements specified in related Sections of these Specifications.
   2. Installation of Alternates shall not be started until details, plans or structural calculations have been accepted and signed by the Architect, Structural Engineer when applicable, and approved by DSA.
   3. Cost for Alternates shall be complete and include all net increases and decreases in Contract Sum for Work described in Alternate and for all changes in related Work. No claims for additional costs to District will be honored other than as stated in cost proposal for each Alternate.

1.06 SCHEDULE OF ALTERNATES

A. Alternate No. 1 - Fabric Structure:
   1. Base Bid Item: Section 32 13 13 - Site Concrete and Drawing number AS-2.0 including site paving.
   2. Alternate Item: Section 13 31 00 - Fabric Structures, 31 63 29 - Drilled Concrete Piers and Shafts and Drawing number T-1.0 through 5.2-2000 including fabric structure.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 25 00
SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 DEFINITIONS

A. Substitutions: See General Conditions for definition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2. Agrees to provide the same warranty for the substitution as for the specified product.
   3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
   4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to District.
   5. Waives claims for additional costs or time extension that may subsequently become apparent.
   6. Agrees to reimburse District and Architect for review or redesign services associated with re-approval by authorities.

B. A Substitution Request for specified installer constitutes a representation that the submitter:
   1. Has acted in good faith to obtain services of specified installer, but was unable to come to commercial, or other terms.

C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
   1. Note explicitly any non-compliant characteristics.

D. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.

E. Limit each request to a single proposed substitution item.
   1. Submit an electronic document, combining the request form with supporting data into single document.

3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

A. Submittal Time Restrictions:
   1. District will consider requests for substitutions only if submitted at least 10 days prior to the date for receipt of bids.

B. Instructions to Bidders specifies time restrictions for submitting requests for substitutions during the bidding period, and the documents required.

C. Submittal Form (before award of contract):
   1. Submit substitution requests by completing the form agreed to with District. See this form for additional information and instructions. Use only this form; other forms of submission are unacceptable.

3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

A. Submittal Form (after award of contract):
   1. Submit substitution requests by completing the form agreed to with District. See this section for additional information and instructions. Use only this form; other forms of submission are unacceptable.

B. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.

C. Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
   1. In addition to meeting general documentation requirements, document how the requested substitution benefits the District through cost savings, time savings, greater energy conservation, or in other specific ways.
   2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
   3. Bear the costs engendered by proposed substitution of:
      a. District's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
      b. Other construction by District.
      c. Other unanticipated project considerations.

D. Substitutions will not be considered under one or more of the following circumstances:
   1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
   2. Without a separate written request.
   3. When acceptance will require revisions to Contract Documents.

3.04 CONTRACT DOCUMENT REVISIONS:

A. Should a Contractor-proposed substitution or alternative sequence or method of construction require revision of the Contract Drawings or Specifications;
   1. Including revisions for the purposes of determining feasibility, scope or cost, or revisions for the purpose of obtaining review and approval by authorities having jurisdiction.
   2. Revisions will be made by Architect or other consultant of District who is the responsible design professional, as approved in advance by District.

B. Services of Architect or other consultant of the District, including time spent in researching and reporting on proposed substitutions or alternative sequence and method of construction, shall be paid by Contractor when such activities are considered additional services to the design services contracts of the Architect or other responsible design professional with the District.

3.05 RESOLUTION

A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.

B. Architect will notify Contractor in writing of decision to accept or reject request.
   1. Architect's decision following review of proposed substitution will be noted on the submitted form.

3.06 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

3.07 CLOSEOUT ACTIVITIES

A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.

B. Include completed Substitution Request Forms as part of the Project record. Include both approved and rejected Requests.

END OF SECTION

SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 01 70 00 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 ELECTRONIC DOCUMENT SUBMITTAL SERVICE

A. All documents transmitted for purposes of administration of the contract are to be in electronic (PDF, MS Word, or MS Excel) format, as appropriate to the document, and transmitted via an Internet-based submittal service that receives, logs and stores documents, provides electronic stamping and signatures, and notifies addressees via email.

B. Cost: The cost of the service is to be paid by Contractor; include the cost of the service in the Contract Sum.

C. Submittal Service: The selected service is:
   1. Bluebeam Software Inc.; Bluebeam Revu Studio: www.bluebeam.com.
   2. Other Service acceptable to both District and Architect.
      a. Direct email with PDF copies.

D. Training: One, one-hour, web-based training session will be arranged for all participants, with representatives of Architect and Contractor participating; further training is the responsibility of the user of the service.
   1. Representatives of District are scheduled and included in this training.

E. Project Closeout: Architect will determine when to terminate the service for the project and is responsible for obtaining archive copies of files for District.

3.02 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the work at maximum bi-weekly intervals.

B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

C. Attendance Required:
   1. Contractor.
   2. District.
   3. Architect.
   4. Special consultants.
   5. Contractor's superintendent.
   6. Major subcontractors.
   7. Inspector of Record.

D. Record minutes and distribute copies within two days after meeting to participants, with copies to Architect, District, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

A. Within 10 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of work, with a general outline for remainder of work.

B. Reviews by Architect and District will be to ascertain the general status of construction and shall not be interpreted to establish or approve the means, methods, techniques and sequences of construction.

C. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

D. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
   1. Include written certification that major contractors have reviewed and accepted proposed schedule.

E. Within 10 days after joint review, submit complete schedule.

F. Submit updated schedule with each Application for Payment.

3.04 DAILY CONSTRUCTION REPORTS

A. Include only factual information. Do not include personal remarks or opinions regarding operations and/or personnel.

B. Prepare a daily construction report recording the following information concerning events at Project site and project progress:
   1. Date.
   2. High and low temperatures, and general weather conditions.
   3. Safety, environmental, or industrial relations incidents.
   4. Meetings and significant decisions.
   5. Stoppages, delays, shortages, and losses. Include comparison between scheduled work activities (in Contractor's most recently updated and published schedule) and actual activities. Explain differences, if any. Note days or periods when no work was in progress and explain the reasons why.
   6. Testing and/or inspections performed.
   7. Signature of Contractor's authorized representative.

3.05 PROGRESS PHOTOGRAPHS

A. Submit photographs with each application for payment, taken not more than 3 days prior to submission of application for payment.

B. Maintain one set of all photographs at project site for reference; same copies as submitted, identified as such.

C. Take photographs as evidence of existing project conditions as follows:
   1. Exterior views: each elevation, roof and areas adjacent to construction limits.

D. Digital Photographs: 24 bit color, minimum resolution of 1600 by 1200 ("2 megapixel"), in JPG format; provide files unaltered by photo editing software.

3.06 REQUESTS FOR INTERPRETATION OR INFORMATION (RFI)

A. Definition: A request seeking one of the following:
   1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in the Contract Documents.
   2. A resolution to an issue which has arisen due to field conditions and affects design intent.

B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.

C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
   1. Prepare a separate RFI for each specific item.
      a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
      b. Do not forward requests which solely require internal coordination between subcontractors.
   2. Prepare in a format and with content acceptable to District.
   3. Combine RFI and its attachments into a single electronic file. PDF format is preferred.

D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
   1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information requiring interpretation.
   2. Unacceptable Uses for RFIs: Do not use RFIs to request the following::
      a. Approval of submittals (use procedures specified elsewhere in this section).
      b. Approval of substitutions (see Section - 01 60 00 - Product Requirements)
      c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).

E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
   1. Official Project name and number, and any additional required identifiers established in Contract Documents.
   2. District's, Architect's, and Contractor's names.
   3. Discrete and consecutive RFI number, and descriptive subject/title.
   4. Issue date, and requested reply date.
   5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
   6. Annotations: Field dimensions and/or description of conditions which have engendered the request.
   7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.

F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.

G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
   1. Indicate current status of every RFI. Update log promptly and on a regular basis.
   2. Note dates of when each request is made, and when a response is received.
   3. Highlight items requiring priority or expedited response.
   4. Highlight items for which a timely response has not been received to date.
   5. Identify and include improper or frivolous RFIs.

H. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
   1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.

I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to District.
   1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered, and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.
   2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
   3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
   4. Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.

3.07 SUBMITTAL SCHEDULE

A. Submit to Architect for review a schedule for submittals in tabular format.
   1. Submit at the same time as the preliminary schedule.
   2. Coordinate with Contractor's construction schedule and schedule of values.
   3. Format schedule to allow tracking of status of submittals throughout duration of construction.
   4. Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for information), description of item of work covered, and role and name of subcontractor.
   5. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and review deadline dates.

3.08 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
   1. Product data.
   2. Shop drawings.
   3. Samples for selection.
   4. Samples for verification.

B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 78 00 - Closeout Submittals.

3.09 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
   1. Design data.
   2. Certificates.
   3. Test reports.
   4. Inspection reports.
   5. Manufacturer's instructions.
   6. Manufacturer's field reports.
   7. Field engineering daily reports.
   8. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for District.

3.10 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 78 00 - Closeout Submittals:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

D. Submit for District's benefit during and after project completion.

3.11 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format with renderable text; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
   1. After review, produce duplicates.
   2. Retained samples will not be returned to Contractor unless specifically so stated.

3.12 SUBMITTAL PROCEDURES

A. General Requirements:
   1. Submit separate packages of submittals for review and submittals for information, when included in the same specification section.
   2. Transmit using approved form.
   3. Sequentially identify each item. For revised submittals use original number and a sequential numerical suffix.
   4. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on each copy.
   5. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.
      a. Submittals from sources other than the Contractor, or without Contractor's stamp will not be acknowledged, reviewed, or returned.
   6. Deliver each submittal on date noted in submittal schedule, unless an earlier date has been agreed to by all affected parties, and is of the benefit to the project.
      a. Send submittals in electronic format via email to Architect.
   7. Schedule submittals to expedite the Project, and coordinate submission of related items.
      a. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
      b. For sequential reviews involving Architect's consultants, District, or another affected party, allow an additional 7 days.
      c. For sequential reviews involving approval from authorities having jurisdiction (AHJ), in addition to Architect's approval, allow an additional 30 days.
   8. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of the completed work.
   9. Provide space for Contractor and Architect review stamps.
   10. When revised for resubmission, identify all changes made since previous submission.
   11. Distribute reviewed submittals. Instruct parties to promptly report inability to comply with requirements.
   12. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
   13. Submittals not requested will be recognized, but will be returned without comment,

B. Product Data Procedures:
   1. Submit only information required by individual specification sections.
   2. Collect required information into a single submittal.
   3. Submit concurrently with related shop drawing submittal.
   4. Do not submit (Material) Safety Data Sheets for materials or products.

C. Shop Drawing Procedures:
   1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
   2. Use of reproductions of Contract Documents in digital data form to create shop drawings is only permitted as defined in Division 01 and individual product sections.
   3. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

STAMPS

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESSIBILITY COMPLIANCE

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:10:58 PM

DRAWN BY: CHECKED BY:
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

SPECIFICATIONS

SPC-1

D. Samples Procedures:
1. Transmit related items together as single package.
2. Identify each item to allow review for applicability in relation to shop drawings showing installation locations.
3. Color Selection Samples: Architect will review and select colors for Project only after all colors are received, so that colors may be properly coordinated.
4. Copies: Submit actual samples. Photographic or printed reproductions will not be accepted.

3.13 SUBMITTAL REVIEW

A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.
B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.
C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet.
D. Architect's and consultants' actions on items submitted for review:
1. Authorizing purchasing, fabrication, delivery, and installation:
a. "Approved", "Reviewed", or language with same legal meaning.
b. "Approved as Noted, Resubmission not required", or language with same legal meaning.
1) At Contractor's option, submit corrected item, with review notations acknowledged and incorporated.
c. "Approved as Noted, Resubmit for Record", "Reviewed as Noted, Resubmit for Record", or language with same legal meaning.
1) Resubmit corrected item, with review notations acknowledged and incorporated. Resubmit separately, or as part of project record documents.
2) Non-responsive resubmittals may be rejected.
2. Not Authorizing fabrication, delivery, and installation:
a. "Revise and Resubmit".
1) Resubmit revised item, with review notations acknowledged and incorporated.
2) Non-responsive resubmittals may be rejected.
b. "Rejected".
1) Submit item complying with requirements of Contract Documents.
E. Architect's and consultants' actions on items submitted for information:
1. Items for which no action was taken:
a. "Received" - to notify the Contractor that the submittal has been received for record only.
2. Items for which action was taken:
a. "Reviewed" - no further action is required from Contractor.

END OF SECTION

SECTION 01 40 00
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 DEFINITIONS

A. Contractor's Quality Control Plan: Contractor's management plan for executing the Contract for Construction.

1.02 CONTRACTOR'S CONSTRUCTION-RELATED PROFESSIONAL DESIGN SERVICES

A. Provide such engineering design services as may be necessary to plan and safely conduct certain construction operations, pertaining to, but not limited to the following:
1. Temporary sheeting, shoring, or supports.
2. Temporary scaffolding.
3. Temporary bracing.
4. Temporary falsework for support of spanning or arched structures.
5. Temporary stairs or steps required for construction access only.
6. Temporary hoist(s) and rigging.
7. Investigation of soil conditions to support construction equipment.

1.03 SUBMITTALS

A. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for District's information.
1. Include calculations that have been used to demonstrate compliance to performance and regulatory criteria provided, and to determine design solutions.
2. Include required product data and shop drawings.
3. Include a statement or certification attesting that design data complies with criteria indicated, such as building codes, loads, functional, and similar engineering requirements.
4. Include signature and seal of design professional responsible for allocated design services on calculations and drawings.
B. Test Reports: After each test/inspection, promptly submit two copies of report to Architect and to Contractor.
1. Test report submittals are for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for District's information.
C. Manufacturer's Field Reports: Submit reports for Architect's benefit as contract administrator or for District.
1. Submit report in duplicate within 30 days of observation to Architect for information.
2. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents.

1.04 QUALITY ASSURANCE

A. Testing Agency Qualifications:
1. Prior to start of work, submit agency name, address, and telephone number, and names of full time registered Engineer and responsible officer.
2. Submit copy of report of laboratory facilities inspection made by NIST Construction Materials Reference Laboratory during most recent inspection, with memorandum of remedies of any deficiencies reported by the inspection.
3. Qualification Statement: Provide documentation showing testing laboratory is approved by Division of the State Architect.
4. Qualification Statement: Provide documentation showing testing laboratory is accredited under IAS AC89.
B. Designer Qualifications: Where professional engineering design services and design data submittals are specifically required of Contractor by Contract Documents, provide services of a Professional Engineer experienced in design of this type of work and licensed in Califnornia.
C. Contractor's Quality Control (CQC) Plan:
1. Prior to start of work, submit a comprehensive plan describing how contract deliverables will be produced. Tailor CQC plan to specific requirements of the project. Include the following information:
a. Management Structure: Identify personnel responsible for quality. Include a chart showing lines of authority.
1) Include qualifications (in resume form), duties, responsibilities of each person assigned to CQC function.
b. Management Approach: Define, describe, and include in the plan specific methodologies used in executing the work.
1) Managerial continuity and flexibility.
D. Quality-Control Personnel Qualifications. Engage a person with requisite training and experience to implement and manage quality assurance (QA) and quality control (QC) for the project.

1.05 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
C. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
D. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

1.06 TESTING AND INSPECTION AGENCIES AND SERVICES

A. District will employ and pay for services of an independent testing agency to perform specified testing.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTRACTOR'S QUALITY ASSURANCE

A. Quality Requirements: Work shall be accomplished in accordance with quality requirements of the Drawings and Specifications, including, by reference, all Codes, laws, rules, regulations and standards. When no quality basis is prescribed, the quality shall be in accordance with the best accepted practices of the construction industry for the locale of the Project, for projects of this type.

3.02 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
B. Comply with manufacturers' instructions, including each step in sequence.
C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
E. Have work performed by persons qualified to produce required and specified quality.
F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.03 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

3.04 TESTING AND INSPECTION

A. See individual specification sections for testing required.

3.05 ARCHITECT'S REVIEW

A. General:
1. Submitted Report review by Architect and Architect's consultants shall be only for general conformance with the design concept and requirements based on the information presented.
2. Neither Architect nor Architect's consultants shall verify submitted quality control data.
B. Observations by Architect and Architect's Consultants: Periodic and occasional observations of Work in progress will be made by Architect and Architect's consultants as deemed necessary to review progress of Work and general conformance with design intent.

3.06 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not conforming to specified requirements, at no change in Contract Sum or Contract Time.
B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.
C. Architect's Acceptance and Rejection of Work: Architect reserves the right to reject all Work not in conformance to the requirements of the Drawings and Specifications.

END OF SECTION

SECTION 01 45 33
CODE-REQUIRED SPECIAL INSPECTIONS AND PROCEDURES

PART 1 GENERAL

1.01 DEFINITIONS

A. Code or Building Code: California Building Code and, more specifically, Chapter 17A - Structural Tests and Special Inspections, of same.
B. Code or Building Code: ICC (IBC), International Building Code, most recent edition adopted by authority having jurisdiction, including all applicable amendments and supplements without limitation, and specifically Chapter 17 - Special Inspections and Tests.
C. Authority Having Jurisdiction (AHJ): Agency or individual officially empowered to enforce the building, fire and life safety code requirements of the permitting jurisdiction in which the Project is located.
D. NIST: National Institute of Standards and Technology.
E. Special Inspections and Tests: Inspections and testing of materials, installation, fabrication, erection, or placement of components and connections mandated by Building Code to safeguard public welfare.
1. Special inspections and tests are separate from and independent of tests and inspections conducted by District or Contractor for purposes of quality assurance and contract administration.

1.02 SUBMITTALS

A. Special Inspection Agency Qualifications: Prior to start of work, Special Inspection Agency is required to:
1. Submit agency name, address, and telephone number, names of full time registered Engineer and responsible officer.
2. Submit copy of report of laboratory facilities inspection made by NIST Construction Materials Reference Laboratory during most recent inspection, with memorandum of remedies of any deficiencies reported by the inspection.
3. Submit certification that Special Inspection Agency is acceptable to AHJ.
B. Manufacturer's Qualification Statement: When required by AHJ, submit documentation of manufacturing capability and quality control procedures. Include documentation of AHJ approval.
C. Fabricator's Qualification Statement: When required by AHJ, submit documentation of fabrication facilities and methods and quality control procedures. Include documentation of AHJ approval.
D. Comply with DSA IR 17-12.
1. DSA Form 291: From the engineering manager of the laboratory of record.
E. Special Inspection Reports: After each special inspection, Special Inspector is required to submit at least two copies of report; Two to Architect; one each to Structural Engineer, Division of the State Architect, Project Inspector for District, District, and Contractor
F. Fabricator Special Inspection Reports: After each special inspection of fabricated items at fabricator's facility, Special Inspector is required to submit report to Architect, Structural Engineer, Division of the State Architect, Project Inspector for District, District, and Contractor
G. Test Reports: After each test or inspection, Testing Agency is required to submit report to Architect, Structural Engineer, Division of the State Architect, Project Inspector for District, District, and Contractor.
H. Certificates: When required by AHJ, Special Inspector will submit certification by manufacturer, fabricator, and installation subcontractor to Architect, Structural Engineer, Division of the State Architect, Project Inspector for District, District, and Contractor.
1. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect and AHJ.
I. Fabricator's Inspection Reports: When required by AHJ, submit reports to Architect and AHJ.
1. Submit report in duplicate within 30 days of observation to Architect for information.

1.03 TESTING AND INSPECTION AGENCIES

1. Project Inspector and testing lab are employed by the District and approved by:
a. A/E of Record.
b. Structural Engineer (when applicable).
c. DSA.
B. District Project Inspector:
1. A Project Inspector (IOR) employed by the District and approved by Architect, Structural Engineer and DSA in accordance with the requirements of the CBC - California Building Code will be assigned to the work.
a. Project Inspector duties are specifically defined in Title 24 CCR Part 1, California Administrative Code Section 4-342.
C. District or Architect may employ services of independent testing agency to perform additional testing and sampling required by contract documents or associated with special inspections but not required by building code.
D. Employment of agency in no way relieves Contractor of obligation to perform work in accordance with requirements of contract documents.
E. Payments:
1. Costs of initial testing and inspection, except as specifically modified herein, or specified otherwise in technical sections, will be paid for by the District, providing such testing and inspection indicates compliance with Contract Documents. Initial tests and inspections are defined as the first tests and inspections as herein specified.

1.04 QUALITY ASSURANCE

A. Special Inspection Agency Qualifications:
1. Independent firm specializing in performing testing and inspections of the type specified in this section.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 SPECIAL INSPECTIONS AND TESTING

A. The Code requires special inspections and testing of certain materials, components, assemblies, and connections used in constructing the project. Special inspections and testing will be performed in accordance with the Code.
B. Tests and inspections are required in accordance with DSA 103 Form.
C. Special inspections and testing will be performed in accordance with the Code for the following materials and project components:
1. Concrete.
2. Soils.
3. Fabricated items.
4. Seismic resistance.
5. Wind resistance.

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 TEMPORARY UTILITIES

A. Provide and pay for all electrical power, lighting, water, and ventilation required for construction purposes.
B. Existing facilities may not be used.

1.02 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
1. Provide temporary toilet facilities if maximum number of personnel on project is greater than 10.
2. Submit proposed location of temporary toilet(s) to District Representative for approval.
B. Maintain daily in clean and sanitary condition.

1.03 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

1.04 FENCING

A. Construction: Commercial grade chain link fence. Include windscreen with galvanized steel schedule 40 post and top rail.
B. Provide 6 foot high fence around construction site; equip with vehicular and pedestrian gates with locks.

1.05 SECURITY

A. Provide security and facilities to protect Work, existing facilities, and District's operations from unauthorized entry, vandalism, or theft.

1.06 VEHICULAR ACCESS AND PARKING

A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
B. Coordinate access and haul routes with governing authorities and District.
C. Provide and maintain access to fire hydrants, free of obstructions.

1.07 WASTE REMOVAL

A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
B. Provide containers with lids. Remove trash from site periodically.

1.08 PROJECT IDENTIFICATION

A. Provide project identification sign of design and construction indicated on drawings.
B. Erect on site at location indicated.

END OF SECTION

SECTION 01 60 00
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.

1.02 QUALITY ASSURANCE

A. CAL (CDPH SM) v1.1: California Department of Public Health (CDPH) Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, v. 1.1–2010, for the emissions testing and requirements of products and materials.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.
B. Unforeseen historic items encountered remain the property of the District; notify District promptly upon discovery; protect, remove, handle, and store as directed by District.
C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the District, or otherwise indicated as to remain the property of the District, become the property of the Contractor; remove from site.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

2.03 PRODUCT OPTIONS

A. Unless the specifications state that no substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, or type of construction or any specific name, make, trade name, or catalog number, with or without the words "or equal," such specification shall be deemed to be used for the purpose of facilitating description of the material, process, or article desired and shall be deemed to be followed by the words "or equal."
1. See Section 01 25 00 - Substitution Procedures.
B. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
1. Product Description:
a. Where Specifications describe a product, listing characteristics required, with or without use of a brand name, provide a product that has the specified attributes and otherwise complies with specified requirements.
C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named, prior to bid .

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

A. See Section 01 25 00 - Substitution Procedures.

END OF SECTION

SECTION 01 61 16
VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 DEFINITIONS

A. Indoor-Emissions-Restricted Products: All products in the following product categories, whether specified or not:
1. Interior paints and coatings applied on site.
2. Interior adhesives and sealants applied on site, including flooring adhesives.
3. Flooring.
4. Composite wood.
5. Products making up wall and ceiling assemblies.
6. Thermal and acoustical insulation.
7. Other products when specifically stated in the specifications.
B. VOC-Content-Restricted Products: All products in the following product categories, whether specified or not:
1. Exterior paints and coatings.
2. Exterior adhesives and sealants, including flooring adhesives.
3. Wet-applied roofing and waterproofing.
4. Other products when specifically stated in the specifications.
C. Interior of Building: Anywhere inside the exterior weather barrier.
D. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.
E. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.
F. Inherently Non-Emitting Materials: Products composed wholly of minerals or metals, unless they include organic-based surface coatings, binders, or sealants; and specifically the following:
1. Concrete.
2. Clay brick.
3. Metals that are plated, anodized, or powder-coated.
4. Glass.
5. Ceramics.
6. Solid wood flooring that is unfinished and untreated.

1.02 SUBMITTALS

A. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.
B. Installer Certifications Regarding Prohibited Content: Require each installer of any type of product (not just the products for which VOC restrictions are specified) to certify that either 1) no adhesives, joint sealants, paints, coatings, or composite wood or agrifiber products have been used in the installation of installer's products, or 2) that such products used comply with these requirements.

1.03 QUALITY ASSURANCE

A. Indoor Emissions Standard and Test Method: CAL (CDPH SM), using Standard Private Office exposure scenario and the allowable concentrations specified in the method, and range of total VOC's after 14 days.
1. Wet-Applied Products: State amount applied in mass per surface area.
2. Paints and Coatings: Test tinted products, not just tinting bases.
3. Evidence of Compliance: Acceptable types of evidence are the following;
a. Current UL (GGG) certification.
b. Current SCS (CPD) Floorscore certification.
c. Current SCS (CPD) Indoor Advantage Gold certification.
d. Current listing in CHPS (HPPD) as a low-emitting product.
e. Current CRI (GLP) certification.
f. Test report showing compliance and stating exposure scenario used.
4. Product data submittal showing VOC content is NOT acceptable evidence.
5. Manufacturer's certification without test report by independent agency is NOT acceptable evidence.
B. VOC Content Test Method: 40 CFR 59, Subpart D (EPA Method 24), or ASTM D3960, unless otherwise indicated.
1. Evidence of Compliance: Acceptable types of evidence are:
a. Report of laboratory testing performed in accordance with requirements.
b. Published product data showing compliance with requirements.
c. Certification by manufacturer that product complies with requirements.
C. Composite Wood Emissions Standard: CARB (ATCM) for ultra-low emitting formaldehyde (ULEF) resins.
1. Evidence of Compliance: Acceptable types of evidence are:
a. Current SCS "No Added Formaldehyde (NAF)" certification; www.scscertified.com.
b. Report of laboratory testing performed in accordance with requirements.
c. Published product data showing compliance with requirements.
d. Certification by manufacturer that product complies with requirements.

PART 2 PRODUCTS

2.01 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.
B. Indoor-Emissions-Restricted Products: Comply with Indoor Emissions Standard and Test Method, except for:
1. Composite Wood, Wood Fiber, and Wood Chip Products: Comply with Composite Wood Emissions Standard or contain no added formaldehyde resins.
a. Comply with CalGreen Building Standards Section 5.504.4.5, Table 504.4.4.5 "Formaldehyde Limits".
2. Inherently Non-Emitting Materials.
C. VOC-Content-Restricted Products: VOC content not greater than required by the following:
1. Adhesives, Including Flooring Adhesives: SCAQMD 1168 Rule.
2. Aerosol Adhesives: GreenSeal GS-36.
3. Joint Sealants: SCAQMD 1168 Rule.
4. Paints and Coatings: Each color; most stringent of the following:
a. 40 CFR 59, Subpart D.
b. SCAQMD 1113 Rule.
c. CARB (SCM).
d. CalGreen Building Standards Section 5.504, Table 504.4.3 "VOC Content Limits for Architectural Coatings".
5. Wet-Applied Roofing and Waterproofing: Comply with requirements for paints and coatings.
6. Carpet, Carpet Tile, and Adhesive: Provide products having VOC content not greater than that required for CRI (GLP) certification.
a. Comply with CalGreen Building Standards Section 5.504, Table 504.4.1 "Adhesive VOC Limit".
D. Other Product Categories: Comply with limitations specified elsewhere.

PART 3 EXECUTION

END OF SECTION

SECTION 01 70 00
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
B. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
1. Structural integrity of any element of Project.
2. Integrity of weather exposed or moisture resistant element.
3. Efficiency, maintenance, or safety of any operational element.
D. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.02 QUALIFICATIONS

A. For design of temporary shoring and bracing, employ a Professional Engineer experienced in design of this type of work and licensed in Califnornia.

1.03 PROJECT CONDITIONS

A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
B. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
C. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
D. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
E. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
F. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
G. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

PART 3 EXECUTION

3.01 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.
B. Promptly notify Architect of any discrepancies discovered.
C. Establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on project record documents.
D. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:

3.02 GENERAL INSTALLATION REQUIREMENTS

A. In addition to compliance with regulatory requirements, conduct construction operations in compliance with CBC Chapter 33, CFC Chapter 33, CFC Chapter 35, and NFPA 241, including applicable recommendations in Appendix A.
1. When welding or doing other hot work, comply with CFC Chapter 35.
2. Provide a Site Fire Safety Plan in coordination with the local fire authority. Comply with DSA BU 24-05.
a. A Site Fire Safety Plan and form DSA 102-IC: Construction Start Notice/Inspection Card Request for submittal through the Architect to the Division of the State Architect.
b. At a minimum, the site fire safety plan shall include the following information required in CFC Section 3303.1.1.
1) Name and contact information of site safety director.
2) Documentation of training of the site safety director and fire watch personnel.
3) Procedures for reporting emergencies.
4) Fire department vehicle access routes.
5) Locations of fire protection equipment, including portable fire extinguishers, standpipes, fire department connections and fire hydrants.
6) Smoking and cooking policies, designated area to be used where approved, and signage locations in accordance with CFC Section 3305.8.
7) Location and safety considerations for temporary heating equipment.
8) Hot work (welding, roofing, etc.) plan.
9) Plans for control of combustible waste.
10) Locations and methods for storage and use of flammable and combustible liquids and other hazardous materials.
11) Provisions for site security.
12) Changes that affect this plan.
13) Other site specific information requested by the local fire authority (LFA).
B. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
C. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
D. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
E. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
F. Make neat transitions between different surfaces, maintaining texture and appearance.

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESSIBILITY COMPLIANCE

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

CHILDREN & FAMILY SERVICES WEST PORTABLE:

3.03 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:

1. Complete the work.
2. Fit products together to integrate with other work.
3. Provide openings for penetration of mechanical, electrical, and other services.
4. Match work that has been cut to adjacent work.
5. Repair areas adjacent to cuts to required condition.
6. Repair new work damaged by subsequent work.
7. Remove samples of installed work for testing when requested.
8. Remove and replace defective and non-complying work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Patching:

1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

3.04 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

3.05 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.06 FINAL CLEANING

A. Execute final cleaning prior to final project assessment.

B. Use cleaning materials that are nonhazardous.

1. Cleaning Agents and Materials: Use only those cleaning agents and materials which will not create hazards to health or property and which will not damage or degrade surfaces.

C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.

E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

3.07 PROJECT CLOSEOUT CONFERENCE

A. Schedule and conduct a project closeout conference, at a time convenient to District and Architect, but no later than 90 days prior to the scheduled date of Completion.

3.08 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.

B. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.

C. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.

D. Notify Architect when work is considered finally complete and ready for Architect's Final Inspection.

E. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion.

END OF SECTION

SECTION 01 71 23
FIELD ENGINEERING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Field engineering services by Contractor.

B. Construction surveying by Contractor.

C. Support and bracing.

1.02 DESCRIPTION OF SERVICES

A. Specific services listed in this section are in addition to, and do not supersede, general Execution and Closeout Requirements.

B. Sole responsibility for establishing all locations, dimensions and levels of items of work.

C. Sole responsibility for provision of all materials required to establish and maintain benchmarks and control points, including batter boards, grade stakes, structure, and pipeline elevation stakes, and other items.

D. Having a skilled instrument person(s) available on short notice when necessary for laying out the work.

E. Preparation and maintenance of daily reports of activity on the work. Submission of reports containing key progress indicators and job conditions to Architect.

F. Prior to backfilling operations, surveying - locating, and recording on a copy of Contract Documents - an accurate representation of buried work and Underground Facilities encountered.

G. Setting up and executing time-lapse photography of construction activities.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers.

1.04 SUBMITTALS

A. Submit in addition to items required in Section 01 70 00 - Execution and Closeout Requirements.

B. Informational Submittals: Submit the following:

1. Field Engineering: Submit daily reports, with content as indicated in this section.

1.05 QUALITY ASSURANCE

A. Field Engineer's Qualifications: As established in Section 01 70 00 - Execution and Closeout Requirements.

B. Use adequate number of skilled and thoroughly-trained workers to perform the work of this section in a timely and comprehensive manner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 FIELD ENGINEERING

A. Maintain field office files, drawings, specifications, and record documents.

B. Coordinate field engineering services with Contractor's subcontractors, installers, and suppliers as appropriate.

C. Prepare layout and coordination drawings for construction operations.

D. Check and coordinate the work for conflicts and interferences, and immediately advise Architect and District of all discrepancies of which Contractor is aware.

E. Cooperate as required with Architect and District in observing the work and performing field inspections.

F. Review and coordinate work on a regular basis with shop drawings and Contractor's other submittals.

G. Check the location, line and grade of every major element as the work progresses. Notify the Architect when deviations from required lines or grades exceed allowable tolerances. Include in such notifications a thorough explanation of the problem, and a proposed plan and schedule for remedying the deviation. Do not proceed with remedial work without District's concurrence of the remediation plan.

H. Check all formwork, reinforcing, inserts, structural steel, bolts, sleeves, piping, other materials and equipment for compliance with shop drawings and Contract Documents requirements.

I. Check all bracing and shoring for structural integrity and compliance with designs prepared by the Contractor.

3.02 CONSTRUCTION SURVEYING

A. General: Perform surveying as applicable to specific items necessary for proper execution of work.

B. Surveying to Determine Quantities for Payment.

1. For each application for progress payment, perform such surveys and computations necessary to determine quantities of work performed or placed. Perform surveys necessary for Architect to determine final quantities of work in place.
2. Notify Architect at least 24 hours before performing survey services for determining quantities. Unless waived in writing by Architect, perform quantity surveys in presence of Architect.

C. Record Log: Maintain a log of layout control work. Record any deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used.

D. Use by the Architect: The Architect may at any time use line and grade points and markers established by the Contractor. The Contractor's surveys are a part of the work and may be checked by the Architect at any time.

E. Accuracy:

1. Establish Contractor's temporary survey references points for Contractor's use to at least second-order accuracy (e.g., 1:10000). Set construction staking used as a guide for the work to at least third-order accuracy (e.g., 1:5000). Provide the absolute margin for error specified below on the basis established by such orders.
2. District reserves the right to check the Contractor's survey, measurements, and calculations. The requirement for accuracy will not be waived, whether this right is exercised or not.

3.03 SUPPORT AND BRACING

A. General requirements: Design all support and bracing systems, if required. Provide for attachment to portions of the building structure capable of bearing the loads imposed. Design systems to not overstress the building structure.

B. Seismic Bracing: Design where required by authorities having jurisdiction.

3.04 REPORTS

A. Submit two copies of Contractor's daily reports electronically to Architect and District Representative by 9:00 AM the next working day after the day covered in the associated report. Daily report shall be signed by responsible member of Contractor's staff, such as project manager or superintendent, or foreman designated by Contractor as having authority to sign daily reports.

3.05 RECORDS

A. Maintain at the Site a complete and accurate log of control and survey work as it progresses.

B. Submit three copies of final property survey to District. Include on the survey a certification, signed by the surveyor, that principal metes, bounds, lines, and levels of the Project are accurately positioned as shown on the survey. Include the following information:

END OF SECTION

SECTION 01 74 19
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

A. Comply with the requirements Section 5.408 of the California Green Building Standards Code.

1. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 504.8.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

B. District requires that this project generate the least amount of trash and waste possible.

C. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.

1.02 SUBMITTALS

A. Submit Waste Management Plan within 30 calendar days after receipt of Notice to Proceed, or prior to any trash or waste removal, whichever occurs sooner; submit projection of all trash and waste that will require disposal and alternatives to landfilling.

B. Waste Management Plan: Include the following information:

1. Analysis of the trash and waste projected to be generated during the entire project construction cycle, including types and quantities.

PART 2 PRODUCTS

PART 3 EXECUTION

3.01 WASTE MANAGEMENT PLAN IMPLEMENTATION

A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.

B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, District, and Architect.

C. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.

D. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.

E. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.

F. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.

G. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

END OF SECTION

SECTION 01 78 00
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SUBMITTALS

A. Final Completion Submittals: Prior to application for final payment, Contractor shall submit 3 copies the following:

1. Agency Document Submittals: Submit to District all documents required by authorities having jurisdiction, including serving utilities and other agencies. Submit original versions of all permit cards, with final sign-off by inspectors. Submit all certifications of inspections and tests.
   a. Complete all required Contractor forms and obtain DSA approval of these same forms. Comply with "Final Certification of Construction" per Title 24 Part 1 section 4-339.
      1) Form-6.C: Verified Report – Contractor: From each Contractor having a contract with the District.
2. Lien and Bonding Company Releases: Submit to District, with copy to Architect, evidence of satisfaction of encumbrances on Project by completion and submission of The American Institute of Architects Forms:
   a. Comply also with other requirements of District, as directed.
   b. All signatures shall be notarized.

B. Project Record Documents: Submit final progress markup PDF documents by uploading via Bluebeam to Architect with claim for final Application for Payment.

C. Operation and Maintenance Data:

1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect will review draft and return one copy with comments.

D. Warranties and Bonds:

1. For equipment or component parts of equipment put into service during construction with District's permission, submit documents within 10 days after acceptance.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Record Documents are to be maintained and submitted in searchable live electronic format (PDF), unflattened.

1. Develop in compliance with Section 01 30 00 - Administrative Requirements.
2. Acceptable markup software:
   a. Adobe Acrobat Professional.
   b. Bluebeam Revu.

B. Maintain on site one set of the following record documents; record actual revisions to the Work:

1. Contract Drawings.
2. Project Manual with Specifications.
3. Addenda.
4. Change Orders and other modifications to the Contract.
5. Reviewed shop drawings, product data, and samples.
6. Manufacturer's instruction for assembly, installation, and adjusting.

3.02 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:

1. Product data, with catalog number, size, composition, and color and texture designations.
2. Information for re-ordering custom manufactured products.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:

1. Description of unit or system, and component parts.
2. Identify function, normal operating characteristics, and limiting conditions.
3. Include performance curves, with engineering data and tests.
4. Complete nomenclature and model number of replaceable parts.

B. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.

C. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

3.05 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS

A. Assemble operation and maintenance data into durable manuals for District's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.

1. Provide duplicate electronic formatted (PDF) versions of the O&M binder for record purposes. Organize the same as the printed versions.

B. Where systems involve more than one specification section, provide separate tabbed divider for each system.

C. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.

D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.

3.06 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with District's permission, leave date of beginning of time of warranty until Date of Final Acceptance is determined.

END OF SECTION

DIVISION 02 - EXISTING CONDITIONS

SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.01 ADMINISTRATIVE REQUIREMENTS

A. Sequencing: Ensure that utility connections are achieved in an orderly and expeditious manner.

1.02 SUBMITTALS

A. Site Plan: Indicate:

1. Areas for temporary and permanent placement of removed materials.

B. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1. Record drawings: Identify and accurately locate capped utilities and other subsurface structural, electrical, or mechanical conditions.

1.03 QUALITY ASSURANCE

A. Demolition Firm Qualifications: Company specializing in the type of work required.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.01 DEMOLITION

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Selective Demolition of Site and Building Elements:

1. Some items may have been demolished prior to Work of this Contract. Verify existing conditions prior to start of demolition. If items are or have been demolished contact the Architect.
2. Phase demolition as necessary to provide adequate interfacing of related Work.

B. Field Measurements and Conditions:

1. Survey existing conditions and correlate with requirements indicated to determine extent of demolition and recycling required.

C. Comply with governing EPA notification regulations before starting demolition. Comply with hauling and disposal regulations of authorities having jurisdiction. Obtain and pay for all permits required.

D. Environmental Controls

1. Comply with federal, state and local regulations pertaining to water, air, solid waste, recycling, chemical waste, sanitary waste, sediment and noise pollution.
2. Water Resources: Comply with applicable regulations concerning the direct or indirect discharge of pollutants to underground and natural surface waters.
3. Dust Control, Air Pollution, and Odor Control: Prevent creation of dust, air pollution and odors.

E. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.

1. Obtain required permits.
2. Comply with applicable requirements of NFPA 241, CBC Ch. 33, and CFC Ch. 33.
3. Use of explosives is not permitted.
4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
5. Provide, erect, and maintain temporary barriers and security devices.

F. Do not begin removal until built elements to be salvaged or relocated have been removed.

G. Protect existing structures and other elements to remain in place and not removed.

H. Minimize production of dust due to demolition operations. Do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

I. Hazardous Materials:

1. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.

J. Damages: Promptly repair damages to adjacent facilities caused by demolition operations.

K. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

3.03 EXISTING UTILITIES

A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.

B. Protect existing utilities to remain from damage.

3.04 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

END OF SECTION

DIVISION 03 - CONCRETE

SECTION 03 30 00
CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

A. Additive Alternate Number 1.Section 31 63 29 - Drilled Concrete Piers and Shafts.

1.02 SUBMITTALS

A. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.

B. Mix Design: Submit proposed concrete mix design.

1. Indicate proposed mix design complies with requirements of ACI SPEC-301, Section 4 - Concrete Mixtures.
2. Indicate proposed mix design complies with requirements of ACI CODE-318, Chapter 19 - Concrete: Design and Durability Requirements, and Chapter 26 - Construction Documents and Inspection.

C. Quality Control Submittals:

1. Field tests: Submit reports of all slump, strength and air content tests as required by authorities having jurisdiction and as indicated on the Drawings and specified herein.
2. Delivery tickets: Have available copies of delivery tickets complying with ASTM C94/C94M for each load of concrete delivered to site. Include on the tickets the additional information specified in the ASTM document.

D. Test Reports: Submit report for each test or series of tests specified.

E. Manufacturer's Installation Instructions: For concrete accessories, indicate installation procedures and interface required with adjacent construction.

F. Project Record Documents: Accurately record actual locations of embedded utilities and components that will be concealed from view upon completion of concrete work.

1.03 QUALITY ASSURANCE

A. Perform work of this section in accordance with ACI SPEC-301 and ACI CODE-318.

B. Follow recommendations of ACI PRC-305(305R) when concreting during hot weather.

C. Follow recommendations of ACI PRC-306(306R) when concreting during cold weather.

D. Testing Agency Services: District will engage an independent testing and inspection agency to conduct tests and perform other services specified for quality control during construction, as required by Section(s) 01 40 00 - Quality Requirements and 01 45 33 - Code-Required Special Inspections and Procedures.

E. Coordination: Coordinate the placement of joint devices with erection of concrete formwork and placement of form accessories. Coordinate concrete requirements with Work specified for underground utilities and mechanical and electrical equipment pads and bases.

PART 2 PRODUCTS

2.01 FORMWORK

A. Formwork Design and Construction: Comply with guidelines of ACI PRC-347 to provide formwork that will produce concrete complying with tolerances of ACI SPEC-117.

B. Form Materials: Contractor's choice of standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted tolerances.

1. Form Coating: Release agent that will not adversely affect concrete or interfere with application of coatings.
2. Form Ties: Cone snap type that will leave no metal within 1-1/2 inches of concrete surface.

2.02 CONCRETE MATERIALS

A. Cement: ASTM C150/C150M, Type II - Moderate Portland type.

1. Cement used in contact with soil shall be Type V - Sulfate Resistant.

B. Fine and Coarse Aggregates: ASTM C33/C33M.

C. Silica Fume: ASTM C1240, proportioned in accordance with ACI PRC-211.1.

D. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.

2.03 ADMIXTURES

A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.

B. Water Reducing and Accelerating Admixture: ASTM C494/C494M Type E.

C. Water Reducing and Retarding Admixture: ASTM C494/C494M Type D.

D. Water Reducing Admixture: ASTM C494/C494M Type A.

2.04 ACCESSORY MATERIALS

A. Non-Shrink Cementitious Grout: Premixed compound consisting of nonmetallic aggregate, cement, water reducing and plasticizing agents.

1. Grout: Comply with ASTM C1107/C1107M.
2. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch.
3. Minimum Compressive Strength at 28 Days: 8,000 pounds per square inch.

B. Non-Shrink Epoxy Grout: Moisture-insensitive, two-part; consisting of epoxy resin, nonmetallic aggregate, and activator.

1. Composition: High solids content material exhibiting positive expansion when tested in accordance with ASTM C827/C827M.
2. Minimum Compressive Strength at 7 days, ASTM C579: 12,000 pounds per square inch.
3. Minimum Compressive Strength at 7 days, ASTM D695: 12,000 pounds per square inch.

2.05 BONDING AND JOINTING PRODUCTS

A. Epoxy Bonding System:

1. Complying with ASTM C881/C881M and of Type required for specific application.

2.06 CURING MATERIALS

A. Evaporation Reducer: Liquid thin-film-forming compound that reduces rapid moisture loss caused by high temperature, low humidity, and high winds; intended for application immediately after concrete placement.

B. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.

1. Product dissipates within 4 to 6 weeks.
2. Provide product containing fugitive red dye.

C. Moisture-Retaining Sheet: ASTM C171.

1. Curing paper, regular.
2. Polyethylene film, white opaque, minimum nominal thickness of 4 mil, 0.004 inch.
3. White-burlap-polyethylene sheet, weighing not less than 3.8 ounces per square yard.

D. Polyethylene Film: ASTM D2103, 4 mil, 0.004 inch thick, clear.

E. Water: Potable, not detrimental to concrete. ASTM C1602/C1602M per ACI CODE-318 Sec. 26.4.3.1

2.07 CONCRETE MIX DESIGN

A. Proportioning Normal Weight Concrete: Comply with ACI PRC-211.1 recommendations and ACI CODE-318.

B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI SPEC-301.

C. Admixtures: Add acceptable admixtures as recommended in ACI PRC-211.1 and at rates recommended or required by manufacturer.

D. Normal Weight Concrete:

1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 4,000 pounds per square inch, unless noted otherwise.
2. Silica Fume Content: Maximum 5 percent of cementitious materials by weight.
3. Water-Cement Ratio: As indicated on Drawings.
4. Maximum Slump: As indicated on Drawings.
5. Maximum Aggregate Size: As indicated on Drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify lines, levels, and dimensions before proceeding with work of this section.

B. Examine areas to receive reinforced vapor retarders. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

C. Subbase: Per ACI PRC-302.1.

1. As indicated on Drawings and approved by the Geotechnical Engineer.
   a. Minimum 4 inch thick (or larger) base of 1/2 inch or larger clean aggregate, per CA Green Code 4.505.2.1 and CBC 1907A.1.

3.02 PREPARATION

A. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in according to bonding agent manufacturer's instructions.

1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.

3.03 PLACING CONCRETE

A. Place concrete in accordance with ACI PRC-304.

3.04 CONCRETE FINISHING

A. Repair surface defects, including tie holes, immediately after removing formwork.

3.05 CURING AND PROTECTION

A. Comply with requirements of ACI PRC-308. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.

3.06 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.

B. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.

C. Compressive Strength Tests: ACI CODE-318, 26.12.2.1(a), ASTM C39/C39M, for each test, mold and cure a minimum of four concrete test cylinders. Project Inspector to obtain test samples each day, for every 50 cubic yards, 2,000 sq. ft. of slab or wall surface area, or less of each class of concrete placed. CBC 1905A.1.15

END OF SECTION

DIVISION 05 - METALS

SECTION 05 50 00
METAL FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Shop fabricated steel items.

1. Custom fabricated gate and fencecomponents.

1.02 SUBMITTALS

A. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.

B. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Conform to applicable requirements of California Building Code (CBC), Title 24, Part 2, as amended and adopted by authorities having jurisdiction.

1. Comply with Title 24, Part 9, California Fire Code Chapter 35 "Welding and Other Hot Work."

2.02 MATERIALS - STEEL

A. Steel Sections: ASTM A36/A36M, for channels, angles and plates.

B. Steel Tubing: ASTM A500/A500M Grade C cold-formed structural tubing.

C. Mechanical Fasteners: Same material as or compatible with materials being fastened; type consistent with design and specified quality level.

D. Bolts, Nuts, and Washers: As indicated on Drawings.

E. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

F. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

G. Galvanize all exterior steel members to comply with ASTM A123/A123M. Provide minimum 1.7 oz/sq ft galvanized coating.

H. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.03 FABRICATION

A. Ferrous Metal Surfaces, General:

1. For metal fabrications exposed to view upon completion of the Work: Provide ferrous metals materials selected for their surface flatness, smoothness, and freedom from surface blemishes.
2. Do not use materials whose exposed surfaces exhibit pitting, seam marks, roller marks, rolled trade names, roughness, and, for steel sheet, variations in flatness exceeding those permitted by reference standards for stretcher-leveled sheet.

B. Hot-dip galvanize fabricated ferrous items, indicated as remaining unpainted, after fabrication. Field connections shall be bolted or screwed where possible. Avoid field cutting and welding which damage galvanized coating.

C. Fit and shop assemble items in largest practical sections, for delivery to site.

STAMPS

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESSIBILITY COMPLIANCE

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

D. Fabricate items with joints tightly fitted and secured.
E. Continuously seal joined members by continuous welds.
F. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
G. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
H. Furnish components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.04 FABRICATED ITEMS

A. Rough Hardware
1. Provide bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as indicated on Drawings.
B. Slotted Channel Framing: Fabricate channels and fittings from structural steel complying with the referenced standards; electro-galvanized per ASTM B633 Type III, SC 1 finish.
C. Enclosure Gates:
1. Fabricated steel shapes as detailed on Drawings, hot-dipped galvanized finish after fabrication, with galvanized perforated steel panel infill.
2. At Pedestrian Gate: Provide 16 gage steel sheet kick plate on push side of gate up to a minimum of 10 inches above finish surface.

2.05 POST INSTALLED CONCRETE ANCHORS

A. Materials:
1. Conform to Code Evaluation Report and ACI 355.4.
2. Interior Use: For use in conditioned environments free from potential moisture, provide zinc plated carbon steel anchors.
3. Exterior Use:
a. In exposed or potentially wet environments, and for attachment of exterior cladding materials, provide stainless steel anchors.
b. Stainless steel nuts and washers shall be of matching alloy group of equal or greater strength than the rod.
c. Avoid installing stainless steel anchors in contact with galvanically dissimilar metals.
B. Mechanical Anchors:
1. Expansion, screw or undercut anchors having current ICC approval for use in cracked and uncracked concrete, with a published ICC Evaluation Service report.
C. Adhesive Anchors:
1. Cartridge Injection Adhesive Anchors: Threaded carbon steel rod, inserts, or reinforcing dowels complete with required nuts, washers, adhesive system and manufacturer's installation instructions.
a. Current ICC approval for use in cracked and uncracked concrete with a published ICC Evaluation Service report required.
2. Interior Use: Unless otherwise indicated on the Drawings, provide:
a. Carbon steel threaded rods conforming to specification as indicated on structural drawings. Where no specification and grade are indicated, provide: ASTM A193/A193M Type B7 with zinc plating in accordance with ASTM B633, Type III Fe/Zn 5 (SC1).
3. Exterior Use: As indicated on the Drawings, provide stainless steel anchors.
a. Stainless steel anchors shall be AISI Type 304 and Type 316 stainless steel provided with stainless steel nuts and washers of matching alloy group and minimum proof stress equal to or greater than the specified minimum full-size tensile strength of the externally threaded fastener.
b. All nuts shall conform to ASTM F594, unless otherwise specified.
D. Power-Driven/Powder Actuated Fasteners
1. Use only if approved by Architect, generally not permitted where not specifically indicated or in load-bearing installations; as indicated on Drawings.

2.06 FINISHES - STEEL

A. Prime paint steel items.
1. Exceptions: Galvanize items to be embedded in concrete.
B. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
C. Prime Painting: One coat.
D. Galvanizing of Structural Steel Members: Galvanize all exterior steel members after fabrication to ASTM A123/A123M requirements. Provide minimum 1.7 oz/sq ft galvanized coating.
E. Galvanizing of Non-structural Items: Galvanize all exterior steel membersafter fabrication to ASTM A123/A123M requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.
B. Field Inspection of Fabricated Products: Prior to installation, inspect products for damage and verify markings and dimensions against reviewed submittals.

3.02 PREPARATION

A. Clean and strip primed steel items to bare metal where site welding is required.

3.03 INSTALLATION

A. Install items plumb and level, accurately fitted, free from distortion or defects.
B. Field weld components as indicated on drawings.
C. Perform field welding in accordance with AWS D1.1/D1.1M.

3.04 INSTALLATION OF POST-INSTALLED ANCHORS

A. Installation shall comply with all manufacturer's instructions and current ICC ESR report.
B. Where manufacturer recommends use of special tools for installation of anchors, such tools shall be used, unless otherwise permitted specifically by the Engineer.
C. Drill holes with rotary impact hammer drills using carbide-tipped bits. Bits must be of type required and permitted by ICC ESR report.
D. Holes shall be cleared of debris after holes are drilled per manufacturer's instructions.
E. During adhesive curing time period, the temperature of the substrate shall be kept above the minimum substrate temperature as defined by the manufacturer. Contractor shall determine the appropriate means and methods to ensure that the temperature is kept above the required minimum temperature required before adhesive installation is begun.

3.05 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 45 33 - Code-Required Special Inspections and Procedures.
B. Inspection: Special inspection of post-installed anchors shall be provided as required by the ICC-ES report for that anchor and not less than the requirements of the Structural Drawings and the following (whichever is the most restrictive):
1. Continuously observe the installation of all anchors, or as specified in the ICC report.
a. Minimum anchor embedments, proof loads and torques shall be as shown on the Drawings.
b. Load Testing: Per Structural General Notes on Drawings.

END OF SECTION

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

SECTION 06 10 53
MISCELLANEOUS ROUGH CARPENTRY

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide technical data on wood preservative materials and application instructions.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Grading Agency: West Coast Lumber Inspection Bureau; WCLIB (GR).
B. Sizes: Nominal sizes as indicated on drawings, S4S.
C. Moisture Content: S-dry or MC19.
D. Stud Framing for sizes 2 by 2 through 2 by 6:
1. Species: Douglas Fir-Larch.
2. Grade: No.1.
E. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No.2 or Standard Grade.
2. Boards: Standard or No.3.

2.03 CONSTRUCTION PANELS

A. Communications and Electrical Room Mounting Boards: PS 1, A-C plywood, or medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.
B. Other Applications:
1. Plywood Concealed From View But Located Within Exterior Enclosure: PS 1, C-C Plugged or better, Exterior grade.
2. Plywood Exposed to View But Not Exposed to Weather: PS 1, A-D, or better.
3. Other Locations: PS 1, C-D Plugged or better.

2.04 ACCESSORIES

A. Fasteners and Anchors:
1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
2. Anchors: Bolt or ballistic fastener for anchorages to steel.
B. Die-Stamped Connectors: Hot dipped galvanized steel, sized to suit framing conditions.
1. For contact with preservative treated wood in exposed locations, provide minimum G185 galvanizing complying with ASTM A653/A653M.

2.05 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
1. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.
B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.02 INSTALLATION OF CONSTRUCTION PANELS

3.03 SITE APPLIED WOOD TREATMENT

A. Apply preservative treatment compatible with factory applied treatment at site-sawn cuts, complying with manufacturer's instructions.

END OF SECTION

DIVISION 09 - FINISHES

SECTION 09 91 13
EXTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
1. Exposed surfaces of steel lintels and ledge angles.
2. Mechanical and Electrical:
a. On the roof and outdoors, paint equipment exposed to weather or to view, including factory-finished materials.
B. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Non-metallic roofing and flashing.
6. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, zinc, and lead.
7. Floors, unless specifically indicated.
8. Glass.
9. Concealed pipes, ducts, and conduits.

1.02 SUBMITTALS

A. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens not required.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes from the same manufacturer to the greatest extent possible.

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
4. Supply each paint material in quantity required to complete entire project's work from a single production run.
5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
B. Volatile Organic Compound (VOC) Content:
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
b. SCAQMD 1113 Rule.
c. CARB (SCM).
d. Architectural coatings VOC limits of Califnornia.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
C. Colors: As indicated on drawings.
1. Extend colors to surface edges; colors may change at any edge as directed by Architect.

2.03 PAINT SYSTEMS - EXTERIOR

A. Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including cement board and primed metal.
1. Two top coats to coverand one coat primer.
2. Top Coat(s): Exterior Latex.
3. Top Coat Sheen:
a. Flat: MPI gloss level 1; use this sheen at all locations.
b. Semi-Gloss: MPI gloss level 5; use this sheen at trim.
4. Primer: As recommended by top coat manufacturer for specific substrate.
B. Ferrous Metals, Unprimed, Latex, 3 Coat:
1. One coat of latex primer.
2. Semi-gloss: Two coats of latex enamel.
C. Ferrous Metals, Primed, Latex, 2 Coat:
1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.
2. Semi-gloss: Two coats of latex enamel.
D. Ferrous Metals, Unprimed, High-Performance, 3 Coat:
1. Pre-Treatment: As recommended by manufacturer
2. One coat galvanize primer.
3. Gloss: Two coats of alkyd enamel.

2.04 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
1. Alkali Resistant Water Based Primer.
2. Anti-Corrosive Alkyd Primer for Metal.
3. Interior/Exterior Quick Dry Alkyd Primer for Metal.
4. Alkyd Primer for Galvanized Metal.
5. Water Based Primer for Galvanized Metal.
6. Rust-Inhibitive Water Based Primer.
7. Interior/Exterior Quick Dry Primer for Aluminum.
8. Stain Blocking Primer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions.
B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

3.04 FIELD QUALITY CONTROL

A. District will provide field inspection.
B. Periodically test film thickness of each coat with wet film gage to ensure coatings are being applied to proper thickness.
C. Request review of each applied coat by District Representative or Architect before application of successive coats. Only reviewed coats will be considered in determining number of coats applied.
D. Immediately prior to Substantial Completion, perform detailed inspection of painted surfaces and repair or refinish abraded, stained, or otherwise disfigured surfaces.

END OF SECTION

DIVISION 10 - SPECIALTIES

SECTION 10 14 23
PANEL SIGNAGE

PART 1 GENERAL

A. Traffic and parking control, and site informational signage

1.02 SUBMITTALS

A. Product Data: Manufacturer's product literature for each type of panel sign, indicating styles, font, foreground and background colors, locations, and overall dimensions of each sign.
B. Shop Drawings:
1. Include dimensions, locations, elevations, materials, text and graphic layout, attachment details, and schedules.
2. Schedule: Provide information sufficient to completely define each panel sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
C. Samples: Submit two samples of each type of sign, of size similar to that required for project, indicating sign style, font, and method of attachment.
D. Verification Samples: Submit samples showing colors, materials, and finishes specified.
E. Manufacturer's Installation Instructions: Include installation templates and attachment devices.
F. Maintenance Materials: Furnish the following for District's use in maintenance of project.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Accessibility Requirements: Comply with ADA Standards, CBC Chapter 11B, and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most restrictive requirements.

2.02 PANEL SIGNAGE

A. Panel Signage:
1. Application: Room and door signs.
2. Description: Flat signs with photopolymer plastic panel media, tactile characters.
3. Sign Size: As indicated on drawings.
4. Sign Edges: Squared.
5. Letter Edges: Squared.
6. Corners: Squared.
7. Material: Laminated-Sheet Sign, Photopolymer face sheet with raised graphics laminated over subsurface graphics to acrylic or phenolic backing sheet to produce composite sheet.
8. Profile: Flat panel in aluminum frame.
a. Frame Finish: Black anodized.
9. Tactile Letters: Raised 1/32 inch minimum.
10. Braille: Grade II, ADA-compliant.
11. One-Sided Wall Mounting: Concealed screws.

2.03 SIGNAGE APPLICATIONS

A. Traffic Signs: To match campus standards; locate where indicated on drawings.
1. Plaque Signs: Provide manufacturer's standard silk-screened signs, baked-on enamel applied over Diamond Grade (DG), (10-year projected life) retro-reflectorized backing; on aluminum or 16 gage galvanized steel sheet. Provide with anti-graffiti protective overlay film. Produce smooth, even, level sign surfaces, constructed to remain flat under installed condition within a tolerance of plus or minus 1/16-inch measured diagonally. Provide two holes for post mounting.
a. Traffic Entry Warning Signs: Sign text, traffic and regular parking control shall comply with requirements of California Code of Regulations (CCR) Title 24, Part 2, Section 11B-502.6 and regulations of local governing authorities.
b. Parking Stall Signs: Sign text, accessible parking control shall comply with requirements of State of California Code of Regulations (CCR) - Title 24, Part 2, CBC Ch. 11B-502.6 in addition to requirements of State of California, Department of Transportation (CALTRANS) and regulations of local authorities having jurisdiction.
c. Additional signs, with content as indicated on Drawings.
d. Fire Lane Signs:
1) Single post mount, of size, color and sign text as shown on site plan or as required by local codes and fire department authority.
2. Support Posts:
a. Galvanized Steel Rail for Bolt-Together Framing:
1) Yield Strength: 60,000 psi.
2) Post and Footing Insert Size: As indicated on Drawings.
3) Post: Basis of Design Product: 6535K372 as distributed by McMaster Carr, or equal.
4) Footing Insert: Basis of Design Product: 6535K392 as distributed by McMaster Carr, or equal.
5) Curved/Angle Bolt: Basis of Design Product: Curved Bolt Set for 1-3/4" High Rails for Bolt-Together Framing as distributed by McMaster Carr, or equal.

2.04 ACCESSORIES

A. Exposed Screws: Stainless steel.
B. Tape Adhesive: Double-sided tape, permanent adhesive.

PART 3 EXECUTION

END OF SECTION

DIVISION 13 - SPECIAL CONSTRUCTION

SECTION 13 31 00
FABRIC STRUCTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Additive Alternate Number 1.

1.02 RELATED REQUIREMENTS

A. Additive Alternate Number 1 Section 31 63 29 - Drilled Concrete Piers and Shafts.

1.03 SUBMITTALS

A. Product Data: For tensile membranes and flexible structural elements.
B. Shop Drawings:
1. Signed and sealed by Engineer of Record responsible for design of fabric structures.
C. Samples: For each membrane type, two samples, 12 inches by 12 inches in size, indicating specified color.
D. Test Reports: Indicate compliance with specified requirements for tensile membranes.
E. Certifications:
1. Provide copy of current fabric certification from California State Fire Marshall.
F. Specimen warranty.
G. Project Record Documents: Indicate actual locations of connectors and repairs.

1.04 QUALITY ASSURANCE

A. Designer Qualifications: Perform design under direct supervision of Professional Engineer experienced in design of this type of work and licensed in Califnornia; with at least three years of documented experience.
B. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of type specified in this section.

1.05 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
B. Manufacturer Warranty: Provide 10-year manufacturer warranty for tensile membranes. Complete forms in District's name and register with manufacturer.
C. Provide twenty year manufacturer warranty for all upright posts, cables, and tensioning plates against failure due to rust-through corrosion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Product: DSA Pre-Approved Shade Structures as indicated on Drawings as manufactured by USA Shade & Fabric Structures, Inc, or approved equal.
1. Local representative: 50 Kalmus Drive, Costa Mesa CA 714.427.6981 office.
B. Pre-Engineered Shade Structures:
1. Custom Canopies, Inc.: customshadecanopies.com.
2. Shade Systems, Inc.: www.shadesystemsinc.com.
3. Superior Recreational Products (a PlayCore Co.): www.superiorrecreationalproducts.com.
4. USA Shade & Fabric Structures, Inc: www.usashade.com.
5. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 TENSILE MEMBRANE STRUCTURES

A. Tensile membrane structures consisting of tensioned membranes stretched over flexible and nonflexible structural support elements.

2.03 STRUCTURAL DESIGN CRITERIA

A. Comply with requirements for contractor's design-related professional design services; see Section 01 40 00 - Quality Requirements.
B. As indicated on drawings.
C. Engineer structures to meet or exceed the requirements of the ASCE 7 and California Building Code (CBC), with the following criteria as indicated on PC Drawings:
Occupancy A-3
Exposure Level C
Design Loads Per ASCE 7.

2.04 SYSTEM DESCRIPTION

A. A pre-engineered steel tubular framed fabric stucture in the size indicated on the Drawings.
B. Standard Footings:
1. Provide footings per stringent California building codes for the specific structure. Columns will be provided as standard direct embedment or optional pier mount (anchoring hardware supplied by General Contractor).
C. All tubing shall be pre-cut to appropriate lengths, and where applicable all outside surfaces shall be galvanized, with an interior corrosion-resistant zinc-rich coating.
D. Roofing:
1. Sails are designed by manufacturer for use with polyethylene shade fabric.
2. Fabric is attached to posts using the fastening systems below in conjunction with vinyl covered minimum ¼" diameter stainless steel cables.
3. Cable fasteners are zinc-plated copper.
E. Fastening System:
1. Deliver fabric complete with independent cables pre-inserted in fabric hems.
2. Each cable shall be looped and clamped at each end.
3. Fastening System to consist of a fastening device factory installed at each roof rafter corner.
a. Concealed attachment hook and sleeve at each rafter corner to move along a track in the rafter.
b. Cables are attached to hook which is welded to the moving sleeve, thereby distributing tension evenly over rafters and not directly onto the mechanism.
4. Seal rafters with no penetrations on the top side, thereby preventing water from entering.
5. Provide a moving sleeve with hook to allow the looped ends of each cable to slide over the hook when the sleeve is at its upper position.
a. Then by turning the concealed fastener within the rafter, moves the sleeve with hook outward (toward end of the rafter), thereby tensioning the cables and securing the fabric at the proper tautness.
6. Secure a locking cap at the end of each rafter with a vandal-resistant bolt.
7. Continuous one-piece cables, cables which are not independent per side and pre-looped and clamped at the factory, and/or cables which must be tensioned with the use of turnbuckles or tools not provided by the manufacturer (other than a common deep socket) are not acceptable.
8. Structures which do not feature the Fastening System on each and every rafter, or fastening mechanisms which do not feature a sealed top rafter and moving outer sleeve such as the Turn-N-Slide, are not acceptable

2.05 FIRE-RESISTANCE CRITERIA

A. Combustibility Testing: Noncombustible when tested in accordance with ASTM E136.
B. Flame Propagation: Complying with NFPA 701, test method 1 or 2.
C. Surface Burning Characteristics: Flame spread index of 75 or less and smoke developed index of 450 or less; when tested in accordance with ASTM E84.
D. California State Fire Marshall Approved: Yes.

2.06 TENSILE MEMBRANES

A. High-Density Polyethylene (HDPE) Membranes.
1. Weight: 10 oz/sq yd.
2. Weave Style: Knitted.
3. Color: As selected from manufacturer's standard selection.

2.07 FLEXIBLE STRUCTURAL ELEMENTS

A. Cables, Fittings, and Anchorages:
1. Structural Stainless Steel Cables: ASTM A666/A666M, Type 304 or Type 316.
2. Cable Length Tolerance: As indicated on drawings.
3. Swaged End Fittings, Pins, Nuts, and Washers: Stainless steel.
4. Fasteners in Membrane Clamping Systems: Stainless steel.
B. Shackles, Rigging Screws, Clamps, and Tensioning Hardware:
1. Stainless steel, ASTM A666/A666M, Type 304 or Type 316.

2.08 NONFLEXIBLE STRUCTURAL ELEMENTS

A. Concrete Foundations: See Section 03 30 00, and pre-engineered drawings.
B. Steel Sections: Steel plates, bars, angles, and channels; ASTM A500/A500M.
1. See manufacturer's PC approved Drawings for addtional specifications.
C. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.
D. Finish: Powder Coated.
E. Color: As selected by Architect from the manucturer's standard range.

2.09 ACCESSORIES

A. Anchorage Devices: Provide anchorage devices and mechanical fasteners for securing tensile membranes and flexible structural elements to in-place construction as determined by the Structural Engineer of Record for design of tensile membrane structure.
B. Carbon Steel Fasteners: As recommended by the manufacturer.
1. Zinc Coating Finish: Galvanized by hot-dip process in compliance with ASTM A153/A153M.
C. Stainless Steel Fasteners: As recommended by the manufacturer

PART 3 EXECUTION

3.01 ERECTION

A. Comply with approved erection plan.
B. Do not undertake erection of tensile membranes during inclement weather conditions; installer has sole responsibility to determine when conditions are safe for erection.
C. Concrete Foundations:
1. See Section 03 30 00.
2. As indicated on drawings.
D. Support Steel:
1. As indicated on drawings.
E. Install tensile membranes and flexible structural elements in accordance with manufacturer's instructions.

3.02 REPAIR

A. Inspect tensile membranes and flexible structural elements.
B. Repair or replace defective or damaged materials as directed by Architect.

3.03 ADJUSTING

A. Make final adjustments to tensile membranes and flexible structural elements as required for structural integrity, and in accordance with shapes and configuration indicated on drawings.

END OF SECTION

DIVISION 31 - EARTHWORK

SECTION 31 10 00
SITE CLEARING

PART 1 GENERAL

1.01 SUBMITTALS

A. Site Plan:
1. Indicate areas for temporary construction and field offices.
B. Clearing Firm Qualification Statement: Documentation of specialized experience.
C. Photographs: Photographic documentation of existing vegetation.

PART 2 PRODUCTS

2.01 MATERIALS

A. Tree Wound Compound: Application capable of sealing vegetation wounds and grafts.
B. Additional materials shall be at the Contractor's option.

PART 3 EXECUTION

3.01 EXAMINATION

A. Identify potential runoff areas.
B. Identify potential dust sources.

3.02 CLEARING AND GRUBBING

A. Scope: Remove trees, shrubs, brush, and stumps in areas to be covered by building structure, paving, lawns, and planting beds.
B. Clear site after relocating vegetation in accordance with ANSI A300 Part 6.
C. Do not remove or damage vegetation beyond limits indicated on drawings.
D. In areas where vegetation must be removed but no construction will occur other than pervious paving, remove vegetation with minimum subsoil disturbance.

LICENSED ARCHITECT ROGER D. CLARKE No. C-14536 Exp. 10-31-27 STATE OF CALIFORNIA

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESS COMPLIANCE REQUIRED

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:10:59 PM

DRAWN BY: CHECKED BY:
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
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E. Grubbing: Remove stumps, roots, buried timber, and other vegetation minimum depth 12 inches (30 cm) from ground. Remove rocks minimum depth 6 inches (15 cm) from ground.

3.03 SELECTIVE REMOVAL AND TRIMMING

A. Selective Removal: Individual tree and shrub identified for removal as indicated on drawings according to 29 CFR 1910.266.

B. Selective Trimming: Individual limbs and branches cut back according to ANSI A300 Part 1 identified for removal as indicated on drawings. Follow recommendations of ANSI Z133 and best local practices for species involved.

3.04 EARTH STRIPPING AND STOCKPILING

A. Stripping:
1. Remove topsoil within identified area:

B. Stockpiling:
1. Place topsoil in identified areas:

3.05 REMOVED VEGETATION PROCESSING

A. Do not burn, bury, landfill, or leave on-site, except as indicated on drawings.

B. Trees: Sell if marketable.

3.06 REPAIR AND RESTORATION

A. Vegetation: Replace damaged or destroyed vegetation identified to remain as indicated on drawings at no cost to District:

3.07 DEBRIS REMOVAL

A. Remove debris, junk, and trash from site.

END OF SECTION

SECTION 31 22 00
GRADING

PART 1 GENERAL

1.01 SUBMITTALS

A. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

PART 2 PRODUCTS

2.01 MATERIALS

A. Gravel: Excavated on-site.
1. Graded according to ASTM D2487 Group Symbol GW, GP, or SP.

PART 3 EXECUTION

3.01 ROUGH GRADING

A. Excavate and fill subgrade material to elevations indicated on plans.

B. Remove and replace unsuitable materials as specified fill.

3.02 FINE GRADING

A. Scrape and spread subgrade material uniformly smooth and without disruptions as indicated on drawings.

3.03 TOLERANCES

A. Top Surface of Finish Grade: Plus or minus 0.04 foot (1/2 inch).

END OF SECTION

SECTION 31 23 16
EXCAVATION

PART 1 GENERAL

1.01 SUBMITTALS

A. Field Quality Control Submittals: Document visual inspection of loadbearing excavated surfaces.

B. Testing agency's qualification statement.

1.02 QUALITY ASSURANCE

A. Shoring Installer Qualifications: Company specializing in performing the shoring and bracing work of this section with minimum five years of documented experience.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PREPARATION

A. Locate and identify known utilities to remain and protect from damage.

3.02 DEWATERING

A. Prevent surface water and groundwater from entering excavations and surrounding areas.

B. Dispose of water without causing surface erosion, sediment buildup, or endangering public health or property.

3.03 EXCAVATION

A. General Excavation:
1. Excavate to indicated contours, elevations, and grades.

B. Excavation for Exterior Improvements:
1. Excavate to subgrade; do not disturb subsoils.

C. Excavate to accommodate paving/site structures and new structures.
1. Excavate to specified elevations.
2. Over-excavate to safely install, adjust, and remove forms, bracing, or supports necessary for installation of work.
3. Hand trim excavations. Remove loose matter.

D. Slope banks of excavations deeper than 4 feet to angle of repose or less until shored, per CalOSHA requirements for Type C Soil.

3.04 EXCAVATION REPAIRS

A. Correct areas that are over-excavated and load-bearing surfaces that are disturbed; see Section 31 23 23 at no additional cost.

3.05 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements for additional requirements.

B. Provide access for visual inspection of loadbearing excavated surfaces by Architect before proceeding with work.

END OF SECTION

SECTION 31 23 16.13
TRENCHING

PART 1 GENERAL

1.01 SUBMITTALS

A. Samples: 10 lb sample of each type of fill; submit in air-tight containers to testing laboratory.

B. Source Quality Control Submittals: Submit name of imported materials source.
1. Results of gradation tests on proposed and actual materials used.

C. Field Quality Control Submittals:
1. Results of compaction density tests.

D. Manufacturer's qualification statement.

E. Installer's qualification statement.

F. Compaction Density Test Reports.

1.02 QUALITY ASSURANCE

PART 2 PRODUCTS

2.01 FILL MATERIALS

A. General Fill: Comprised of sand and gravel; free of shale, clay, friable materials, and debris.
1. Fill Type : Subsoil excavated on-site.
a. Free of lumps larger than 3 inches, rocks larger than 2 inches, and debris.
b. Complying with ASTM D2487 Group Symbol CL.

B. Granular Fill: Pit-run washed stone; free of shale, clay, friable materials, and debris.
1. Graded in accordance with ASTM D2487 Group Symbol GW.

C. Crushed Stone: Crusher-run, mineral aggregate, free of silt, clay, loam, friable or soluble materials, and organic matter.
1. Grade in accordance with ASTM D2487 Group Symbol GM.

D. Filter Fabric: Geotextile, capable of material separation.
1. Geotextile: Nonbiodegradable, nonwoven.

E. Sand: Natural river or bank, washed free of silt, clay, loam, friable or soluble materials, and organic matter.
1. Grade in accordance with ASTM D2487 Group Symbol SW.
2. Sand Equivalent: In accordance with ASTM D2419.

F. Concrete: Ready mix.
1. Ready for placement in accordance with ASTM C94/C94M.

2.02 ACCESSORIES

A. Underground Warning Tape: Suitable for direct burial.
1. Bright-colored, continuously printed plastic ribbon tape, minimum 6 inches wide by 4 mils, 0.004 inch thick.

PART 3 EXECUTION

3.01 SUPPORT AND PROTECTION

3.02 DEWATERING

A. Prevent surface water and groundwater from entering excavations and surrounding areas.

B. Dispose of water without causing surface erosion, sediment buildup, or endangering public health or property.

3.03 TRENCH EXCAVATION

A. Slope banks of excavations deeper than 4 feet to angle of repose or less until shored.

B. Do not interfere with 45 degree bearing splay of foundations.

C. Cut trenches wide enough to allow inspection of installed utilities.

D. Hand trim excavations. Remove loose matter.

E. Remove excavated material that is unsuitable for re-use from site.

3.04 PREPARATION FOR UTILITY PLACEMENT

A. Cut out soft areas of subgrade not capable of compaction in place. Backfill with general fill.

B. Compact subgrade to density equal to or greater than requirements for subsequent fill material.

3.05 BACKFILL AND COMPACTION

A. Backfill to contours and elevations indicated on drawings using unfrozen materials.

B. Fill to subgrade elevations unless otherwise indicated on drawings.

C. Employ placement method that does not disturb or damage other work.

D. Systematically fill and compact as as to achieve 90 percent relative compaction without damaging conduit or pipe. Do not fill over porous, wet, frozen or spongy subgrade surfaces.

E. Maintain optimum moisture content of fill materials to attain required compaction density.

F. General Fill: Place and compact materials in equal continuous layers not exceeding 8 inches compacted depth.

G. Soil Fill: Place and compact material in equal continuous layers not exceeding 8 inches compacted depth or as directed by the Geotechnical Report.

H. Slope grade away from building minimum 2 inches in 10 feet, unless noted otherwise. Make gradual grade changes. Blend slope into level areas.

I. Correct areas that are over-excavated.

J. Compaction Density Unless Otherwise Specified or Indicated:
1. Under paving and similar construction: 95 percent of maximum dry density.
2. At Other Locations: 95 percent of maximum dry density.

K. Reshape and re-compact fills subjected to vehicular traffic.

L. Underground Warning Tape:
1. Install 6 to 8 inches below finished grade, directly above buried pipe.

3.06 FIELD QUALITY CONTROL

A. Compaction density testing will be performed on compacted fill in accordance with ASTM D1556 or ASTM D6938.

B. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D1557 modified proctor, AASHTO T 180, or ASTM D698 standard proctor.

C. Nonconforming Work: For failed tests, remove work, replace, and retest.

END OF SECTION

SECTION 31 23 23
FILL

PART 1 GENERAL

1.01 SUBMITTALS

A. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used.

B. Compaction Density Test Reports.

1.02 QUALITY ASSURANCE

A. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.03 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 FILL MATERIALS

A. General Fill: Subsoil excavated on-site.
1. Graded.
2. Free of lumps larger than 3 inches, rocks larger than 3 inches, and debris; are suitable for use as fill at depths minimum 18 inches below the final building pad level.
3. Complying with ASTM D2487 Group Symbol CL.

B. Structural Fill: Subsoil excavated on-site.
1. Graded.
a. Test soil for potential contamination in accordance with DTSC-Clean Fill protocols.
2. Free of organic matter, debris, and oversize particles (e.g., cobbles, rubble, etc. that are larger than 3 inches, rocks larger than 3 inches. Fill shall contain at least fifty percent of material smaller than 1/4 inch in size.
3. Complying with ASTM D2487 Group Symbol CL.

2.02 ACCESSORIES

A. Geotextile Fabric: Non-biodegradable, non-woven; Geotex 801 manufactured by Propex Geotextile Systems, geotextile.com.

PART 3 EXECUTION

3.01 FILLING

A. Fill to contours and elevations indicated using unfrozen materials.

B. Fill up to subgrade elevations unless otherwise indicated.

C. Employ a placement method that does not disturb or damage other work.

D. Systematically fill and compact per geotechnical report. Do not fill over porous, wet, frozen or spongy subgrade surfaces.

E. Maintain optimum moisture content of fill materials to attain required compaction density.

F. Granular Fill: Place and compact materials in equal continuous layers not exceeding 6 inches compacted depth.

G. Soil Fill: Place and compact material in equal continuous layers not exceeding 8 inches compacted depth.

H. Slope grade away from building minimum 2 inches in 10 feet, unless noted otherwise. Make gradual grade changes. Blend slope into level areas.

I. Correct areas that are over-excavated.

J. Compaction Density Unless Otherwise Specified or Indicated:
1. Under paving, slabs-on-grade, and similar construction: 90 percent of maximum dry density.
2. At upper 12 inches beneath vehicular pavements: 95 percent of maximum dry density.
3. At other locations: At least 90 percent of maximum dry density.

K. Reshape and re-compact fills subjected to vehicular traffic.

L. Maintain temporary means and methods, as required, to remove all water while fill is being placed as required, or until directed by the Architect. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack of dewatering or surface water control.

3.02 FIELD QUALITY CONTROL

A. Perform compaction density testing on compacted fill in accordance with ASTM D1556 or ASTM D6938.

B. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D 1557 ("modified Proctor") or AASHTO T 180.

C. Non-compliance: If tests indicate work does not meet specified requirements, remove work, replace and retest.

END OF SECTION

SECTION 31 63 29
DRILLED CONCRETE PIERS AND SHAFTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Additive Alternate Number 1.

1.02 RELATED REQUIREMENTS

A. Additive Alternate Number 1 Section 13 31 00 - Fabric Structures: Drilled footing requirements.

1.03 SUBMITTALS

A. Project Record Documents: Record actual locations of piers, pier diameter, and pier length. Accurately record the following:
1. Sizes, lengths, and locations of piers.
2. Sequence of placement.
3. Final base and top elevations.

PART 2 PRODUCTS

2.01 MATERIALS

A. Concrete Materials and Mix: Specified in Section 03 30 00.
1. Strength as indicated on PC Drawings.

B. Reinforcement: Specified in Section 03 30 00 - Cast-in-Place Concrete and 32 13 13 - Site Concrete; spiral wound.

C. Equipment: Appropriate for dewatering excavated shaft.

PART 3 EXECUTION

3.01 INSTALLATION

A. Construct piers in accordance with ACI SPEC-336.1.

B. Drill vertical pier shafts to diameters and depths indicated.

C. Place reinforcing steel in accordance with Section .03 20 00 - Concrete Reinforcing, 03 30 00 - Cast-in-Place Concrete, and 32 13 13 - Site Concrete

D. Place concrete in single pour, in accordance with Section 03 30 00 with equipment designed for vertical placement of concrete.

E. Coordinate casing withdrawal with concrete placement so that concrete pressure head exceeds anticipated outside soil and water pressure above bottom of casing at all times during withdrawal.

F. Extend reinforcement for connection of caps.

G. Set tops of piers to elevations indicated.

END OF SECTION

DIVISION 32 - EXTERIOR IMPROVEMENTS

SECTION 32 11 20
SUBBASE AND AGGREGATE BASE COURSES

PART 1 GENERAL

1.01 SUBMITTALS

A. Test Reports:
1. Aggregate Composition: Results of laboratory tests on proposed and actual materials used.
2. Compaction Density: Results of laboratory tests on compacted course.

B. Manufacturer's Instructions: Indicate geosynthetic installation procedure.

C. Source Quality Control Submittals: Submit name of imported materials source.

D. Field Quality Control Submittals: Submit compaction density testing results.

E. Testing agency's qualification statement.

1.02 QUALITY ASSURANCE

A. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of type specified in this section.

PART 2 PRODUCTS

2.01 MATERIALS

A. Subbase Course:
1. Graded in accordance with ASTM D2487 Group Symbol SW.

B. Geosynthetic:
1. Geotextile: Nonbiodegradable, nonwoven.

C. Aggregate Base Course:
1. Type Class II : Comply with State of California Highway Department standard.
2. Graded according to ASTM D2487 Group Symbol GW.

2.02 SOURCE QUALITY CONTROL

A. For aggregate materials using classification complying with ASTM D2487, provide testing before delivery to site.

PART 3 EXECUTION

3.01 PLACEMENT

A. Under Bituminous Concrete Paving:
1. Subbase Compacted Thickness: According to design drawings.
2. Install geosynthetic reinforcement on substrate in accordance with manufacturers instructions.
3. Aggregate Base Compacted Thickness: According to design drawings.

B. Place course in maximum 4 inch layers and roller compact to specified density.

C. Level and contour surfaces to elevations and gradients indicated.

D. Use mechanical tamping equipment in areas inaccessible to compaction equipment.

3.02 TOLERANCES

3.03 FIELD QUALITY CONTROL

A. Subbase Compaction Density Testing: In accordance with ASTM D1556/D1556M, ASTM D2167, or ASTM D6938.

B. Aggregate Base Compaction Density Testing: In accordance with ASTM D1556/D1556M, ASTM D2167, or ASTM D6938.

C. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with AASHTO T 180, ASTM D698 ("standard Proctor"), or ASTM D1557 ("modified Proctor").

END OF SECTION

SECTION 32 12 16
ASPHALT PAVING

PART 1 GENERAL

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Conform to California Code of Regulations (CCR), Volume 2, Part 2, Chapters 18A and 19A.

B. Conform to California Building Code (CBC), Chapter 11B and ADA Standards for accessibility requirements.
1. Paving along accessible routes of travel shall be at least as slip-resistant as that described as a medium salted finish for slopes of less than 6%, and slip resistant at slopes of 6% or greater; CBC Ch. 11B-403.2.

2.02 MATERIALS

A. Asphalt Cement: ASTM D 946.

B. Aggregate for Binder Course : Angular crushed washed stone; free of shale, clay, friable material and debris.
1. Graded in accordance with ASTM D2487 Group Symbol GW.

C. Mineral Filler: Finely ground particles of limestone, hydrated lime or other mineral dust, free of foreign matter.

D. Fiber Reinforcement: Synthetic fibers shown to have long-term resistance to deterioration when in contact with alkalis and moisture; 1/2 inch length.

E. Geotextile Fabric: Non-biodegradable, non-wovenPetromat Enviro manufactured by Propex Operating Company, LLC.
1. Geotextile Construction: Needle-punched nonwoven geotextile composed of 100% polypropylene or polypropylene / recycled polyester blend, staple fiber and heat calendered on one side.

F. Primer: In accordance with locally adopted {\rs\#1}.

G. Tack Coat: Homogeneous, medium curing, liquid asphalt.

H. Seal Coat: AI MS-19, slurry type.

2.03 GEOTEXTILE INTERLAYER FOR BITUMINOUS PAVEMENT OVERLAYS

A. Geotextile Fabric: Non-biodegradable, non-woven manufactured by Propex Operating Company, LLC., or equal.

B. The geotextile construction shall be a needle-punched nonwoven geotextile composed of 100% polypropylene or polypropylene / recycled polyester blend, staple fiber and heat calendered on one side.

2.04 ASPHALT PAVING MIXES AND MIX DESIGN

A. Use dry material to avoid foaming. Mix uniformly.

B. Base Course: 4.5 to 5.8 percent of asphalt cement by weight in mixture in accordance with SSPWC (Greenbook) Section 203-6.4.4, Type B.

C. Binder Course: 4.5 to 6 percent of asphalt cement by weight in mixture in accordance with AI MS-2.
1. CSS-1 h and conform to the requirements of SSPWC (Greenbook), Section 203-3 Emulsified Asphalt.

D. Parking Lot Wearing Course: 4.6 to 6.0 percent of asphalt cement by weight in mixture in accordance with {\rs\#1} Section 203-6.4.3, Type C2.

E. Playground Area Wearing Course: 4.8 to 6.5 percent of asphalt cement by weight in mixture in accordance with SSPWC (Greenbook) Section 203-6.4.4, Type D2.

F. Submit proposed mix design of each class of mix for review prior to beginning of work.

PART 3 EXECUTION

3.01 PLACING ASPHALT PAVEMENT - SINGLE COURSE

A. Install Work in accordance with {\rs\#1} Subsection 302-5.

B. Place asphalt within 24 hours of applying primer or tack coat.

C. Place thickness as indicated on Civil Drawings to minimum 1 inch compacted thickness.

3.02 PLACING ASPHALT PAVEMENT - DOUBLE COURSE

A. Install Work in accordance with SSPWC (Greenbook) Subsection 302-5.

B. Place asphalt binder course within 24 hours of applying primer or tack coat.

C. Place binder course to thickness as indicated on Civil Drawings, minimum 1 inch compacted thickness.

D. Place asphalt wearing course within two hours of placing and compacting binder course.

E. Place wearing course to thickness as indicated on Civil Drawings, minimum 1 inch compacted thickness.

3.03 SEAL COAT

A. Apply seal coat to surface course and asphalt curbs in accordance with {\rs\#1}, Subsection 302-8.2.

END OF SECTION

SECTION 32 13 13
SITE CONCRETE

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on joint filler, admixtures, and curing compound.

1.02 QUALITY ASSURANCE

A. Lines and Levels: Established by State of Project State licensed Surveyor or registered Civil Engineer. Costs of surveying services shall be included in the Contract Sum.

PART 2 PRODUCTS

2.01 PAVING ASSEMBLIES

A. Comply with applicable requirements of ACI SPEC-301.

B. Site Concrete: 4,000 psi 28 day concrete, thickness as indicated on Drawings, minimum 4 inches, natural grey color Portland cement.

2.02 REGULATORY REQUIREMENTS

A. Conform to California Code of Regulations (CCR), Volume 2, Part 2, Chapters 18 and 19.

B. Conform to California Building Code (CBC), CBC Chapter 11B and ADA Standards for accessibility requirements.
1. Portland cement concrete paving shall be stable, firm, and slip resistant and shall comply with CBC Section 11B-302 and 11B-403.
2. Concrete paving and concrete finishes along accessible routes of travel shall be at least as slip-resistant as that described as a medium salted finish for slopes of less than 6%, and slip resistant at slopes of 6% or greater; CBC Section 11B-403.2.
3. Surface cross slopes shall not exceed 2 percent on any accessible path of travel.

C. Albedo Reflectance of Finish Concrete: 0.30, minimum.

2.03 FORM MATERIALS

A. Wood form material, profiled to suit conditions.

B. Joint Filler: Preformed; non-extruding bituminous type (ASTM D1751) or sponge rubber or cork (ASTM D1752).
1. Thickness: 1/2 inch.

2.04 REINFORCEMENT

A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi) yield strength; deformed billet steel bars; unfinished.

B. Dowels: ASTM A615/A615M, Grade 60 - 60,000 psi yield strength; deformed billet steel bars; unfinished finish.

2.05 CONCRETE MATERIALS

A. Obtain cementitious materials from same source throughout.

B. Cement: ASTM C150/C150M, Sulfate Resistant - Type V Portland cement, gray color.

C. Fine and Coarse Mix Aggregates: ASTM C33/C33M.

D. Water: Clean, and not detrimental to concrete.

E. Chemical Admixtures: ASTM C494/C494M, Type A - Water Reducing, Type C - Accelerating, and Type G - Water Reducing, High Range and Retarding.
1. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.

2.06 ACCESSORIES

A. Curing Compound: ASTM C309, Type 1-D, Class A.

B. Liquid Surface Sealer: <>
1. Reactive water-based silane-siloxane penetrating, water repelling sealer for use on unsealed concrete or cementitious overlays.
1) CONC-3 Basis of Design Product: SikaCem-102 First Seal as manufactured by Sika, or equal.
2. Pentrating High solids, acrylic curing and sealing compound: Minimum 25% non-yellowing, acrylic solids curing compound; shall conform to ASTM C309 and/or ASTM C1315, Type I, Class A, VOC compliant.

C. Tactile Warning Surfaces: See Section 32 17 26.

2.07 CONCRETE MIX DESIGN

A. Proportioning Normal Weight Concrete: Comply with ACI PRC-211.1 recommendations.

B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI SPEC-301.

C. Admixtures: Add acceptable admixtures as recommended in ACI PRC-211.1 and at rates recommended by manufacturer.

D. Concrete Properties:
1. Compressive strength, when tested in accordance with ASTM C39/C39M at 28 days; As scheduled.
2. Water-Cement Ratio: Maximum 40 percent by weight, or according to indicated concrete strength..
3. Maximum Slump: 4 inches.

2.08 MIXING

A. Transit Mixers: Comply with ASTM C94/C94M.

PART 3 EXECUTION

3.01 FORMING

A. Place and secure forms to correct location, dimension, profile, and gradient.

3.02 REINFORCEMENT

A. Place reinforcement at midheight of slabs-on-grade.

3.03 COLD AND HOT WEATHER CONCRETING

A. Follow recommendations of ACI PRC-305 when concreting during hot weather.

B. Follow recommendations of ACI PRC-306 when concreting during cold weather.

3.04 PLACING CONCRETE

A. Place concrete in accordance with ACI PRC-304.

3.05 FINISHING

A. Area Paving: Light broom, texture perpendicular to pavement direction.

B. Curbs and Gutters: Light broom, texture parallel to pavement direction.

END OF SECTION

SECTION 32 15 00
AGGREGATE SURFACING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Crushed stone surfacing. (Stabilized decomposed granite walkways)

1.02 SUBMITTALS

A. Products Data: For each product specified. Submit a 5 lb. sample and sieve analysis for grading of decomposed granite or crushed 3/8" or 1/4" minus aggregate to be sent to Manufacturer prior to any construction – (allow 2 week turn around).

B. Test Reports:
1. Submit sieve analysis of proposed material to insure it meets grading requirements.
2. Test Results: Supplied by an independent testing laboratory for compliance of gradation of decomposed granite material in accordance with ASTM C136/C136M.

C. Sieve analysis and color of decomposed granite screenings shall be approved in writing from the Architect before any material is delivered to the project site.

D. Manufacturer's qualification statement.

E. Samples:

1.03 MOCK-UPS:

A. Install 4 ft. wide x 10 ft. long mock-up of decomposed granite with stabilizer additive at location as directed by Architect.

B. Mock to be the standard from which the work will be judged and incorporated into the work.

1.04 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide one year manufacturer warranty for performance. Complete forms in District's name and register with manufacturer.

C. Installer Special Warranty: Provide 2-month (60 days) warranty for unconditional maintenance and repairs as required commencing on the Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Basis of Design Product: Decomposed Granite as manufactured by Gail Materials, or approved equal.

2.02 MATERIALS

A. Crushed Stone Surfacing: Natural, washed, 3/8 inch (1 cm) stone; free of shale, clay, friable material, and debris.
1. Decomposed Naturall Friable Granite Screenings for Walkways.
2. Color(s): To be selected by Architect from manufacturer's full range.

STAMPS

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESS COMPLIANCE REQUIRED

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:10:59 PM

DRAWN BY:: CHECKED BY:
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3. Provide screenings of clean, hard, durable particles of fragments of select granite.
   a. Evenly mix fines throughout the aggregate.
   b. Material with one fractured face produced from gravel; Provide 50 percent retained on a No. 4 sieve, by weight.

B. Stabilizer Binder:
1. Patented, non-toxic, organic binder that is a colorless and odorless concentrated powder that binds decomposed granite together to produce a firm surface.
2. Products:
   a. Basis of Design Product: Organic-Lock for Organic-Lock Stabilized Aggregate as Distributed by Organic-Lock, or approved equal.
   b. Gail Materials; Natricil; gailmaterials.net.
   c. Organic-Lock (Envirobond Products Corporation); Organic-Lock for Organic-Lock Stabilized Aggregate: www.organic-lock.com.
   d. Substitutions: See Section 01 60 00 - Product Requirements.

C. Geosynthetic Fabric: Comply with SSPWC (Greenbook) Section 213-2 – "Geosynthetics", Type N90.

D. Aggregate Base Course: According to surface reinforcement manufacturer's recommendations.

2.03 ACCESSORIES

A. Steel Edging:
1. Dimensions: 3/16 inch thick by 4 inches deep, with overlapping joints.
2. Stakes: 3/16 inch by 16 inches long x 1-3/4 inch wide at top tapering to point at bottom; located 36 inches o.c. maximum.
3. Finish: Baked-on green paint, Baked-on brown paint, Baked-on black paint, or Hot-dipped galvanized.
4. Color(s): To be selected by Architect from manufacturer's full range.

B. Redwood Edging:
1. Material: RIS Merchantable Heart Grade.
2. Dimensions: Nominal 1 x 4 inches.
3. Stakes: Nominal 2 x 2 inches by 16 inches long; located 36 inches o.c. maximum.

C. Recycled Plastic Lumber Edging:
1. Material: Lumber made from recycled polyethylene and UV stabilizers.
2. Dimensions: Nominal 2 x 4 inches.
3. Steel Stakes: 3/16 inch by 16 inches long x 1-3/4 inch wide at top tapering to point at bottom; located 36 inches o.c. maximum.
4. Color(s): To be selected by Architect from manufacturer's full range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subgrade has been prepared correctly, is smooth, and is at proper grade and level.

B. Do not begin work until subgrade is correct.

3.02 INSTALLATION

A. Edging: Install flush with stabilized decomposed granite surfacing.
1. Provide sufficient stakes to secure in place.

B. Install aggregate base course according to surface reinforcement manufacturer's recommendations.
1. Base shall be 3 inch compacted layer of recommended crushed granular road base. Make any corrections necessary to base furnished and installed to bring gravel to the elevations shown on the drawing.
2. Pre-soak base material with water and compact to 95% determined by Test Method ASTM D1557 prior to installing Stabilized Aggregate. Compaction testing to be provided by project owner, one test per 2,000 square feet of base.
3. Although porous, it is recommended to have proper drainage available to ensure no standing water on surface or adjacent to Stabilized Aggregate, including downspouts when placed under roof overhang and surface drains.
4. Blending Stabilizer:
   a. Thoroughly pre-mix stabilizer with aggregate at the rate of 15-lbs of stabilizer per 1-ton of aggregate. Verify with manufacturer correct stabilizer rate for your project and climate. Drop spreading of stabilizer over pre-placed aggregate or mixing by rototilling is not acceptable. Mechanically pre-mix stabilzer per manufacturer's recommendations using an approved mechanical blending unit to adequately blend stabilizer with aggregate (Bucket blending is not an approved blending apparatus). Always dry blend stabilizer and aggregate.
5. Placement:
   a. After pre-blending, place Stabilized Aggregate directly on prepared sub-grade. Level to desired grade and cross section. Depth of pathways shall be 3" for heavy foot traffic and light vehicles. DO NOT place on filter fabric. Contact manufacturer for installation on slopes greater than 8%.
6. Watering:
   a. Water heavily for full-depth moisture penetration of profile. Water activates stabilizer. Apply 25 to 45-gallons of water per 1-ton to achieve saturation. Randomly test for depth using a probing device, which reaches full depth.
   b. Wait a minimum of 6 – 72 hours or until such time that the stabilized aggregate is able to accept compaction from a 1 to 5 ton roller without separation, plowing or any other physical compromise of the aggregate.
   c. If surface aggregate dries significantly quicker than subsurface material, lightly mist surface before compaction.
7. Compaction:
   a. Compact stabilized aggregate to 85% relative compaction by equipment such as; a 2 to 5-ton double drum roller making 3 to 4 passes. Do not begin compaction for 6 hours after placement and up to 72 hours. DO NOT use a vibratory plate compactor or vibration feature on roller, as vibration separates large aggregate particles. If pumping or pancaking of surface occurs, surface is still too wet to roll.
   b. Take care in compacting surface when adjacent to planting and irrigation systems, use 8" or 10" hand tamp. Install stabilized aggregate more than 3" thick, in lifts. If 4" thick compacted (2) 2" lifts. If 5" thick compacted (2) 2.5" lifts. If stabilized aggregate is pre-moistened before installation entire 4" or 5" lift may be installed.
   c. Lightly spray surface area following compaction. Do not disturb aggregate surface with spray action.

C. Place surfacing or aggregate-turf pavement in maximum 4 inch (100 mm) layers.

3.03 PROTECTION

A. Furnish and install construction fence around new surface to prevent public access. Fencing to be maintained in place for a minimum of 12 - 72 hours after completion of installation, or as directed by the District Representative. Drying period may take longer due to weather conditions.

B. Contractor shall notify District Representative that landscape irrigation shall be restricted near Stabilized Aggregate surface until drying period is complete. Standing water on surface and adjacent to path shall be restricted at all times.

3.04 MAINTENANCE

A. Remove debris, such as paper, grass clippings, or organic material by mechanically blowing or hand raking as needed. When plowing snow, use rubber baffle on plow blade or wheels on plow to lift blade 1/4" off the surface.

B. During first year, minor amounts of loose aggregate may appear on surface (1/16 to 1/4"). If material exceeds a ¼", redistribute over entire surface. Water to 1" depth and compact with power roller of no less than 1000-lbs. Repeat as needed. If cracking occurs, sweep fines into cracks, water thoroughly and hand tamp with an 8" – 10" hand tamp.

3.05 REPAIRS

A. Excavate damaged area to the depth of the Stabilized Aggregate and square off sidewalls.

B. If area is dry, moisten damaged portion lightly.

C. Pre-blend the dry required amount of Stabilizer® with the proper amount of aggregate in a concrete mixer.

D. Add water to the pre-blended Stabilized Aggregate. Thoroughly moisten mix with 25 to 45 gallons per 1-ton of pre-blended material or to approximately 10% moisture content.

E. Apply moistened pre-blended Stabilized Aggregate to excavated area to finish grade.

F. Compact with an 8" to 10" hand tamp or 250 to 300 pound roller. Keep traffic off areas for 12 to 48 hours after repair has been completed.

END OF SECTION

SECTION 32 17 23
PAVEMENT MARKINGS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used.

B. Manufacturer's Instructions:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.02 SEQUENCING

A. Allow new pavement surfaces to cure for a period of not less than 14 days before application of markings.

PART 2 PRODUCTS

2.01 PAINTED PAVEMENT MARKINGS

A. Painted Pavement Markings: As indicated on drawings.
1. Marking Paint: In accordance with AASHTO MP 24 or FS TT-P-1952; water emulsion-based traffic paint.
   a. Parking Lots: Color(s) as indicated.
      1) Fast-dry type. If required by authorities having jurisdiction for Work in public rights-of-way, include reflective material in paint. Paint for marking curbs shall not require reflective material. See Color Schedule in Part 3.
   b. Symbols and Text: Color(s) as indicated.
      1) Accessibility Symbols: Provide blue and white, per CBC Chapter 11B-503 and CBC Chapter 11B-703.7.2.
         (a) Blue shall conform to Color No. 15090; SAE AMS-STD-595A (formerly 595C per CBC Ch. 11B-703.7.2).
2. Recreational Area Paint:
   a. Color: As indicated on drawings.
3. Reflective Glass Beads at Accessible Parking Spaces: Type 1 (low index of refraction), Gradation A (coarse, drop-on); with silicone or other suitable waterproofing coating to ensure free flow, in accordance with AASHTO MP 24 or FS TT-P-1952.
4. Obliterating Paint: Type I, in accordance with AASHTO MP 24 or FS TT-P-1952.
   a. Bituminous Pavement: Black.
   b. Concrete Pavement: Gray.

B. Temporary Marking Tape: Preformed, reflective, pressure sensitive adhesive tape in color(s) required; Contractor is responsible for selection of material of sufficient durability as to perform satisfactorily during period for which its use is required.

PART 3 EXECUTION

3.01 INSTALLATION

A. General:
1. Position pavement markings as indicated on drawings.

B. Painted Pavement Markings:
1. Apply in accordance with manufacturer's instructions.
2. Obliterating Paint: Apply as necessary to cover existing markings completely.
3. Marking Paint: Apply uniformly, with sharp edges.
4. Parking Lots: Apply parking space lines, entrance and exit arrows, painted curbs, and other markings indicated on drawings.
5. Symbols: Use a suitable template that will provide a pavement marking with true, sharp edges and ends, of the design and size indicated.

3.02 FIELD QUALITY CONTROL

A. Allow the pavement marking to set at least the minimum time recommended by manufacturer.

3.03 CLOSEOUT ACTIVITIES

A. Temporary Markings: Remove without damaging surfaces.

END OF SECTION

SECTION 32 17 26
TACTILE WARNING SURFACING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Submit manufacturer's product data, standard details, details specific to this project, written installation, and maintenance instructions.

B. Shop Drawings: Submit plan and detail drawings. Indicate:

C. Samples: For each product specified, provide two samples, 8 inches square, minimum; show actual product, color, and patterns.

D. Manufacturer's qualification statement.

E. Installer's qualification statement.

1.02 WARRANTY

A. Manufacturer Warranty: Provide standard 5-year warranty against manufacturing defects, breakage, or deformation of plastic tiles. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Detectable warnings shall comply with California Building Code, CBC Ch. 11B-705.1 requirements, CBC Ch. 11B-705.1.2 Locations and CBC Ch. 11B-705.1.2.5 Blended Transitions, for special warnings for accessibility.

B. Nominal dimensions meeting CBC Ch. 11B-705.1.2 Locations.

C. Detectable warning surfaces at transit boarding platform edges, bus stops, hazardous vehicle areas, reflecting pools, and track crossings shall be yellow and approximate to Federal Color No. 33538 of SAE AMS-STD-595A (Table IV of Federal Standard No. 595A, formerly 595C).
1. Detectable warning surfaces at other locations shall be the aforementioned yellow or a olor providing a 70 percent minimum visual contrast with that of adjacent walking surfaces.
2. The material used to provide visusal contrast shall be an integral part of the surface. CBC Ch. 11B-705.1.1.3.

D. Detectable warning surfaces shall differ from adjoining surfaces in resiliency or sound-on-cane contact. Such constraint shall not be required for detectable warning surfaces at curb ramps, islands, or cut-through medians. CBC Ch. 11B-705.1.1.4 Resiliency.

E. Truncated dome pattern in-line, not staggered.

2.02 MATERIALS

A. Plastic Tactile Warning Surfacing:
1. Material Properties:
   a. Water Absorption: 0.20 percent, maximum, when tested in accordance with ASTM D570.
   b. Slip Resistance: 0.50 minimum dry static coefficient of friction, when tested in accordance with ASTM D2047.
   c. Compressive Strength: 25,000 pounds per square inch, minimum, when tested in accordance with ASTM D695.
   d. Tensile Strength: 10,000 pounds per square inch, minimum, when tested in accordance with ASTM D638.
   e. Flexural Strength: 25,000 pounds per square inch minimum, when tested in accordance with ASTM D790.
2. Shape: Rectangular.
3. Dimensions: 36 inches by 48 inches.
4. Pattern: In-line pattern of truncated domes complying with ADA Standards.
   a. At Flush Concrete Application Basis of Design Product: Armor-Tile as manufactured by Engineered Plastics, or approved equal.

2.03 ACCESSORIES

A. Fasteners: ASTM A666/A666M, Type 304 stainless steel.

B. Adhesive: Type recommended and approved by surfacing tile manufacturer.

C. Sealant: Elastomeric sealant of color to match adjacent surfaces; approved by surfacing tile manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's written instructions.

B. Field Adjustment:
1. Cut units to size and configuration shown on drawings.
2. Do not cut plastic tiles to less than 9 inches wide in any direction.
3. Locate relative to curb line in accordance with ATBCB PROWAG, Sections 304 and 305.
4. Orient so dome pattern is aligned with the direction of ramp.
5. Align truncated dome pattern between adjacent units.

C. Cast in Place:
1. When installing multiple adjacent units, leave 3/16-inch gap between units to allow for expansion.
2. Tamp and vibrate units as recommended by manufacturer.
3. Place and position weights on units while concrete cures.
4. Ensure no voids or air pockets exist between top surface of concrete and underside of units.

3.02 FIELD QUALITY CONTROL

A. Nonconforming Work: Remove and replace.

END OF SECTION

SECTION 32 18 13
SYNTHETIC GRASS SURFACING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: For all manufactured surfacing products, provide manufacturer's product data showing materials of construction, compliance with specified standards, installation procedures, and safety limitations.

B. Shop Drawings, Carpet Roll: Show locations of seams and methods of seaming.
1. Field Graphics: Include methods of seaming.

C. Samples: For each product for which color must be selected provide color chart showing full range of colors.

D. Samples: Provide following prior to ordering material:
1. Synthetic Grass carpet: Two 12 inch by 12 inch (305 mm by 305 mm) pieces.
2. Infill material: Two 1-gallon bags for each type.
3. Seamed synthetic grass carpet: Two 12 inch by 24 inch (305 mm by 610 mm) pieces seemed together for each seaming method indicated on drawings.
4. Shock absorbing material: Two 1-gallon bags for each type.
5. Field graphics synthetic grass carpet: Two 12 inch by 12 inch (305 mm by 305 mm) pieces for each color indicated on drawings.

E. Manufacturer's Qualification Statement.

F. Installer's Qualification Statement.

G. Certification: Provide IPEMA certification of ASTM F1292 Critical Fall Height at thickness specified.

1.02 WARRANTY

A. Provide 8 year minimum warranty from the date of substantial completion for materials and installation covering:
1. Excessive wear.
2. Fiber tensile strength.
3. Deterioration or fading from UV light.
4. Seam integrity.
5. Drainage rate.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Provide surfacing meeting the requirements for the physically disabled of the California Code of Regulations (CCR), Title 24, Part 2, and ADA Accessibility Guidelines for Buildings and Facilities, as amended.

2.02 SYNTHETIC GRASS SURFACING

A. Synthetic Grass Carpet: Yarn fibers tufted through and adhered to a porous fiber backing.
1. Total Weight: 40 oz per sq yd, minimum.
2. Permeability: 10 inches (254 mm) of water per hour, minimum.
3. Lead Content: 100 ppm, maximum, in accordance with ASTM F2765.
4. Roll: 15 feet (4.6 m) feet wide, minimum.
5. Noncombustible: Pass ASTM D2859 for flammability.
6. Products:
   a. FieldTurf USA Inc; FieldTurf Classic HD 2.5": www.fieldturf.com/#sle.
   b. GeoSurfaces, a Tencate company; Greenfields Allsport Ultra Blend: www.geosurfaces.com/#sle.
   c. Synlawn; SYNAugustine X47: www.synlawn.com/#sle.
   d. Substitutions: See Section 01 60 00 - Product Requirements.

B. Synthetic Grass Infill: 2 pounds per square foot (10 ksm), minimum at 50 to 50 percent granule to synthetic sand.
1. Basis of Design Product: Envirofill as manufactured by Synlawn.

C. Meet California's Prop 65. Ensure the material has been tested to key local standards.

2.03 MATERIALS

A. Edge Anchoring: Wood-polymer composite lumber complying with ASTM D6662; factory finished, free of sharp vertical edges, protruding elements, and trip hazards, capable of being secured to border.

B. Border: Permanent element surrounding edge anchoring, consisting of sidewalks:

C. Total thickness of the base stone and fill surfacing: 6 inches.
1. Drainage Fill (Loose Surfacing): 2 inches.
2. Base Stone: 4 inches.

D. Drainage (Loose Surfacing) Course: Fractured, non-rounded gravel; washed; free of dust, clay, dirt, organic material, hazardous substances, or foreign objects; rounded particles, either naturally or mechanically; sieved in compliance with ASTM C136/C136M in specified gradation range.

E. Drainage (Base Stone) Course: Fractured, non-rounded gravel; washed; free of dust, clay, dirt, organic material, hazardous substances, or foreign objects; rounded particles, either naturally or mechanically; sieved in compliance with ASTM C136/C136M in specified gradation range.

F. Geotextile Fabric: Nonwoven Needle punched polyester sheet composed of recycled polyester resins.

2.04 ACCESSORIES

A. Fasteners, Synthetic Grass to Edging: 1/2 inch (13 mm) stainless steel staples, in compliance with ASTM F1667.

B. Fasteners, Edging to Border: Self drilling, stainless steel screws, in compliance with ASTM F1667.

C. Fasteners, Seams:
1. Sewing Thread: As recommended by manufacturer.
2. Bonding:
   a. Adhesive: Two-part urethane-based glue.
   b. Backing: 12-inch (305 mm) wide woven polyester.

PART 3 EXECUTION

3.01 SUBGRADE

A. Correct irregularities to ensure that required depth of drainage layer can be installed, and elevation is in accordance with manufacturer's requirements.

B. Shape to profile indicated on drawings and compact by proof rolling to minimum 95 percent, in compliance with ASTM D698.

C. Flatness Tolerance: 1/2 inch in 10 feet, maximum.

D. Perform percolation test at lowest elevation of subgrade, in compliance with ASTM STP322-1.

3.02 GEOTEXTILE

A. Verify that subgrade is free of ruts or protruding objects.

B. Install geotextile over subgrade in drainage trenches first, prior to field installation.

C. Lap minimum 36 inches width at seams. Adhere seams in accordance with manufacturer's recommendations.

3.03 DRAINAGE AGGREGATE

A. Loose Fill Surfacing:
1. Install in compliance with CPSC Pub. No. 325, ASTM F1487, and requirements of authorities having jurisdiction (AHJ).
2. Install aggregate subbase as indicated on drawings and in Section 32 11 20. Compact aggregate to maximum 95 percent, in accordance with ASTM D1557.
3. Compact to minimum 95 percent density, in accordance with ASTM D698.
4. Flatness Tolerance: 1/4 inch in 10 feet, maximum.
5. Prevent base stone from entering into loose fill surfacing layer. Prevent loose fill from entering into base stone layer.

B. Base Stone:
1. Install aggregate subbase as indicated on drawings and in Section 32 11 20. Compact aggregate to maximum 95 percent, in accordance with ASTM D1557.
2. Install in compliance with CPSC Pub. No. 325, ASTM F1487, and requirements of authorities having jurisdiction (AHJ).
3. Compact to minimum 95 percent density, in compliance with ASTM D698.
4. Flatness Tolerance: 1/2 inch in 10 feet, maximum.
5. Mirror base stone elevations to final elevations.
6. Prevent disturbance to geotextile during installation.
7. Approval of drainage piping by Architect required prior to commencement of installation. Prevent disturbance of drainage piping during installation.

3.04 EDGE ANCHORING

A. Install along full perimeter of synthetic grass.

B. Fasten to border with case hardened screws at 24 inch on center, minimum.

C. Set top of edging flush or recessed 1/2 inch below top of border, maximum.

3.05 BORDER

A. Verify that site furnishings and composite nailer boards located within project area are complete.

3.06 SYNTHETIC GRASS

A. Carpet Rolls:
1. Unroll all carpet in same direction.
2. Prevent seams from being located over impact mats.
3. Allow carpet to rest for at least 4 hours after unrolling and prior to seaming.
4. Smooth seams and edges, eliminate overlaps and gaps.

B. Seaming:
1. Cut: Straight, with clean and smooth edge.
2. Method: per manufacturer.
   a. Sewing: 2 thread, bound seam stitch.
   b. Bonding: Adhesive-backed, applied uniformly with complete coverage.

C. Securing: Staple carpet to edging 1 inch (25 mm) on center.

3.07 INFILL

A. Apply during dry weather without signs of moisture on synthetic grass.

B. Thoroughly brush synthetic grass prior to infill installation.

C. Apply infill uniformly in multiple lifts, brush fibers between each application.

D. Measure depth to confirm accordance with plans.

3.08 FIELD QUALITY CONTROL

A. District or District's representative will inspect synthetic grass after installation to verify that surfacing is of proper type and meets specified design safety and accessibility requirements.

B. Repair or replace rejected work until compliant with specified requirements and design criteria.

C. Replace damaged products before Date of Substantial Completion.

3.09 CLEANING

A. Clean surrounding areas of excess construction materials, debris, and waste.

END OF SECTION

SECTION 32 31 13
CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.

B. Design Calculations: For high wind load areas, provide calculations for fence fabric and accessory selection as well as line post spacing and foundation details. See CLFMI WLG 2445 for line post and spacing guidance.

C. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, and schedule of components. See CLFMI CLF-SFR0111 for planning and design recommendations.

D. Samples: Submit two samples of fence fabric, windscreen , 12 inch by 12 inch in size illustrating construction and colored finish.

E. Manufacturer's Qualification Statement.

F. Fence Installer Qualification Statement.

G. Project Record Documents: Accurately record actual locations of property perimeter posts relative to property lines.

H. Field Inspection Records: Provide installation inspection records that include post settings, framework, fabric, barbed wire, fittings and accessories, gates, and workmanship.

1.02 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Final Inspection.

C. Provide five year manufacturer warranty for rusting or breakdown of finish.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Provide fences and gates meeting life safety and accessibility requirements of California Building Code (CBC) Title 24, Part 2, Chapters 10 and 11B; and ADA Standards, per latest amendments.
1. Gates that are part of the accessible route shall meet all the requirements of an accessible door in compliance with CBC Section 11B-404.
2. The lever of lever actuated latches or locks for an accessible gate shall be curved with a return to within 1/2 inch of the (face of) gate to prevent catching on the clothing or persons. California Referenced Standards Code T-24 Part 12, Section 12-10-202, Item (F).
3. Swing doors and gate surfaces within 10 inches of the finish floor or ground shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped. CBC Section 11B-404.2.10

B. Exit Devices: Comply with State Fire Marshal Standard 12-10-3 Exits, Section 12-10-302.

2.02 COMPONENTS

A. Sizes to be determined by fencing manufacturer for wind load of fencing with "tennis court" windscreen and design wind speed of 105 mph. Comply with CLFMI WLG 2445. The following sizes and those listed on the Drawings are *minimum*.

B. Line Posts: 2.38 inch diameter.

C. Corner and Terminal Posts: 2.38 inch diameter.

D. Gate Posts: 3-1/2 inch diameter.

E. Top and Brace Rail: 1.66 inch diameter, plain end, sleeve coupled.

F. Bottom Rail: 1.66 inch diameter, plain end, sleeve coupled.

G. Gate Frame: 1.66 inch diameter for welded fabrication.

H. Fabric: 1-3/4 inch diamond mesh interwoven wire, 9 gauge, 0.1483 inch thick, top selvage knuckle end closed, bottom selvage knuckle end closed.

I. Tension Wire: 6 gauge, 0.1920 inch thick steel, single strand.

J. Tension Band: 0.105 inch thick steel.

K. Tension Strap: 3/16 by 3/4 inch thick steel.

L. Tie Wire: Aluminum alloy steel wire.

2.03 MATERIALS

A. Posts, Rails, and Frames:
1. ASTM A1011/A1011M, Designation SS; hot-rolled steel strip, cold formed to pipe configuration, longitudinally welded construction, minimum yield strength of 50 ksi; zinc coating complying with ASTM F1043 and ASTM F1083.
2. Line Posts: Type I round in accordance with FS RR-F-191/1D.
3. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round in accordance with FS RR-F-191/1D.
4. Comply with CLFMI CLF-PM0610.

B. Wire Fabric:
1. ASTM A392 zinc coated steel chain link fabric.
2. Comply with CLFMI CLF-PM0610.

C. Concrete:
1. Ready-mixed, complying with ASTM C94/C94M; normal Portland cement; 2,500 psi strength at 28 days, 3 inch slump; 3/4 inch nominal size aggregate.

2.04 MANUAL GATES AND RELATED HARDWARE

A. Hardware for Single Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; hardware as indicated on Drawings; keeper to hold gate in fully open position.

B. Hardware for Double Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; hardware as indicated on Drawings; keepers to hold gate in fully open position.
1. Provide 3 hinges for gates over 16 feet wide.
2. Fork type latch capable of retaining gate in closed position, except gates with panic hardware.

C. Locking: Provide padlock capability on non-pedestrian gates only. Do not install padlock capability on Exit Gates, gates on Path of Travel with Exit Devices and other pedestrian gates.

2.05 ACCESSORIES

A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer.

B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.

2.06 FINISHES

A. Components (Other than Fabric): Galvanized in accordance with ASTM A123/A123M, at 1.7 ounces per square foot.

B. Hardware: Hot-dip galvanized to weight required by ASTM A153/A153M.

C. Accessories: Same finish as framing.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install framework, fabric, accessories and gates in accordance with ASTM F567.

B. Place fabric on outside of posts and rails.

C. Set intermediate, terminal, and gate posts plumb , in concrete footings with top of footing 2 inches above finish grade. Slope top of concrete for water runoff.

D. Brace each gate and corner post to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail one bay from end and gate posts.

E. Install center brace rail between posts with fittings and accessories for fence height 8 feet and higher, inclusive.

F. Stretch fabric between terminal posts or at intervals of 100 feet maximum, whichever is less.

G. Install hardware and gate with fabric to match fence.

3.02 FENCE ADJUSTMENTS

A. Where finish grade is is raised 6 inches or less, cut and re-knuckle existing fence fabric. Adjust tension wire and and tie to fabric. Bottom of fabric to be 3/4 inch above grade.

B. where finish pavement is lowered 6 inches or less, remove post footing to flush with finish grade; adjust fabric and attachments. Bottom of fabric to be 3/4 inch above grade.

C. Entirely replace post footings and fabrics that require adjustment after installation.

END OF SECTION

SECTION 32 31 19
DECORATIVE METAL FENCES AND GATES

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Submit manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

B. Shop Drawings:
1. Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.

C. Project Record Documents: Accurately record actual locations of property perimeter posts relative to property lines.

D. Field Inspection Records: Provide installation inspection records that include post settings, framework, fittings and accessories, gates, and workmanship.

E. Maintenance Materials: Furnish the following for District's use in maintenance of project:
1. See Section 01 60 00 - Product Requirements, for additional provisions.

1.02 WARRANTY

A. Correct defective Work within a five year period after Date of Substantial Completion.

B. Provide ten year warranty for finish.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS:

A. Provide fences and gates meeting life safety and accessibility requirements of California Building Code (CBC) Title 24, Part 2, Chapters 10 and 11B; and ADA Standards, per latest amendments.
1. Gates that are part of the accessible route shall meet all the requirements of an accessible door in compliance with CBC Section 11B-404.
2. The lever of lever actuated latches or locks for an accessible gate shall be curved with a return to within 1/2 inch of the (face of) gate to prevent catching on the clothing or persons. California Referenced Standards Code T-24 Part 12, Section 12-10-202, Item (F).

STAMPS

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESS COMPLIANCE REVIEWER

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:10:59 PM

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RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETTA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

SPECIFICATIONS

SPC-6

3. Swing doors and gate surfaces within 10 inches of the finish floor or ground shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped. CBC Section 11B-404.2.10
4. The bottom of the gate shall be within 3 inches of the finish surface of the path of travel. The maximum effort to operate a gate or hardware shall not exceed 5 lbf. CBC Section 11B-404.2.9.

2.02 FENCES

A. Fences: Complete shop-fabricated system of posts and panels, accessories, fittings, and fasteners; finished with specified coating, and having the following performance characteristics:
   1. Capable of resisting vertical load, horizontal load and infill performance requirements for fence categories defined in ASTM F2408.
B. Electro-Deposition Coating: Multistage pretreatment/wash with zinc phosphate, followed by epoxy primer and acrylic topcoat.
   1. Total Coating Thickness: 2 mils, minimum.
   2. Coating Performance: Comply with general requirements of ASTM F2408.
      a. Adhesion: ASTM D3359 (Method B); Class 3B with 90 percent or more of coating remaining in tested area.
      b. Weathering Resistance: ASTM D523, ASTM D822/D822M and ASTM D2244; less than 60 percent loss of gloss.
C. Steel: ASTM A653/A653M; tensile strength 45,000 psi, minimum.
   1. Hot-dip galvanized; ASTM A653/A653M, G60.
   2. 62 percent recycled steel, minimum.
D. Fasteners: ASTM A276/A276M, Type 302 stainless steel; finished to match fence components.
   1. Tamper-proof security bolts.
   2. Self-drilling hex-head screws.

2.03 MECHANICALLY FASTENED STEEL FENCE

A. Provide fence meeting requirements for Industrial class as defined by ASTM F2408.
B. Basis of Design Product: Montage II® - Heavy Industrial Steel Ornamental Fence System – Fusion Welded and Rackable with 3-Rail Majestic Pickets as manufactured by Ameristar Perimeter Security, USA, or equal.
C. Fence Panels: Mechanically fastened with internal reinforcement and tamperproof fasteners; 8 feet high by 6 feet long.
   1. Panel Style: Three rail.
   2. Panel Strength: Capable of supporting 600 pound load applied at midspan without deflection.
   3. Attach panels to posts with manufacturer's standard panel brackets.
D. Posts: Steel tube.
   1. Size: 3 inches square by 12 gauge, 0.1094 inch, with manufacturer's standard cap.
   2. Post Cap: Ball.
E. Rails: Manufacturer's standard, double-wall steel channel; 1-3/4 inch square by 14 gauge, 0.0747 inch with pre-punched picket holes.
   1. Picket Retaining Rods: 1/8 inch galvanized steel.
   2. Picket-to-Rail Intersection Seals: PVC grommets.
F. Pickets: Steel tube.
   1. Spacing: 4.175 inch on center.
   2. Size: 3/4 inch square by 11 gage, 0.1233 inch.
   3. Style: Pickets with finial extend above top rail.
   4. Finial: Spear point.
G. Flexibility: Capable of following variable slope of up to 1:4.
H. Color: Black.
I. Hinged Gates:
   1. Basis of Design Product: Montage II® - Heavy Industrial Steel Ornamental Fence System – Majestic 3-Rail Swing Gate, Flush Bottom as manufactured by Ameristar Perimeter Security, USA, or approved equal.
   2. Steel Gate: Fabricated steel gate, ASTM A500/A500M, Grade B., Size as indicated on Drawings. See Section 05 50 00 - Metal Fabrications.
   3. Construction: Match adjacent fence
      a. Factory Fabricated Non-Pedestrian Swing Gates:
         1) 1.75" x 14ga Forerunner double channel rail, 2" sq. x 12ga. gate ends, and 1" sq. x 14ga. pickets.
            (a) Gates that exceed 6' in width will have a 1.75" sq. x 14ga. intermediate upright.
         2) Join all picket, rail, and upright intersections by welding.
         3) Weld gusset plates at each upright to rail intersection.
      b. Provide cable kits for additional trussing for all gates leaves over 6 ft..

2.04 SPECIALITY HARDWARE

A. Pedestrian Gate Hardware: Provide non-lift-off type and 180 degree opening hinges, latches, drop bolts, and other hardware required.

2.05 FABRICATION

A. Swinging Gates: Fabricate gates of galvanized steel framework with infill panels as specified herein. Provide with latch of type to permit operation from either side of gate by means of lever handles, and incorporating a padlock eye as integral part of latch. Latch shall be mounted 40 inches above finish grade. Comply with California Fire Code (CFC) Section 1010.1.9.2.
   1. On gates over 5 feet; Install diagonal cross bracing consisting of 3/8 inch diameter truss rods with drop forged steel turnbuckles where necessary to insure frame rigidity without sag or twist.

2.06 ACCESSORIES

A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer.
B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.
C. Concrete: Ready-mixed, complying with ASTM C 94/C 94M; normal Portland cement; 2,500 psi strength at 28 days, 3 inch slump; 3/4 inch nominal size aggregate.

PART 3 EXECUTION

3.01 INSTALLATION

A. Installation, General: Install items plumb and level, accurately fitted, free from distortion or defects.
B. Install in accordance with fabricator's instructions.
C. Set fence posts in accordance with the approved spacing.
D. When cutting rails immediately seal the exposed surfaces by:
   1. Apply zinc-rich primer or galvanizing patch compound to thoroughly cover cut edge and drilled hole; allow to dry.
   2. Apply two coats of custom finish spray paint matching fence color.
   3. Failure to seal exposed surfaces in accordance with manufacturer's instructions may negate manufacturer's warranty.
E. Space gate posts according to the manufacturers' drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected.
F. Set line posts in concrete footing.
   1. Diameter: 18 inch minimum to maintain 3 inch concrete cover. Unless otherwise indicated or detailed on Drawings.

3.02 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch.
B. Maximum Offset From Indicated Position: 1 inch.
C. Minimum Distance from Property Line: 6 inches.

3.03 FIELD QUALITY CONTROL

A. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.
B. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design.
C. Gates: Inspect for level, plumb, and alignment.

3.04 CLEANING

A. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
B. Clean fence with mild household detergent and clean water rinse well.
C. Touch up scratched surfaces using visually materials recommended by manufacturer. Match touchup paint color to fence finish.
   1. Galvanized Touch-Up: Touch up surfaces immediately after installation, including field welding. Prepare surface and apply cold repair compound in compliance with the product manufacturer's instructions and recommendations.

END OF SECTION

SECTION 32 84 23
IRRIGATION SYSTEM

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide component and control system and wiring diagrams.
B. Shop Drawings: Indicate piping layout to water source, location of sleeves under pavement, location and coverage of sprinkler heads, components, plant and landscaping features, site structures, schedule of fittings to be used.
C. Samples: Provide one outlet of each type, with housing. Accepted samples may be used in the Work.
D. Operation and Maintenance Data:
   1. Provide instructions for operation and maintenance of system and controls, seasonal activation and shutdown, and manufacturer's parts catalog.
   2. Provide watering schedule that complies with the State Water Ordinance.
E. Record Documents: Record actual locations of all concealed components piping system.
   1. Three laminated copies of the system map/station controller chart.
F. Maintenance Materials: Provide the following for District's use in maintenance of project.

PART 2 PRODUCTS

2.01 IRRIGATION SYSTEM

A. Electric solenoid controlled underground irrigation system, with low point self drain.
   1. Source Power: 120 volt, 20 A., 1 phase.
   2. Low Voltage Controls: 24 volt, 0.45 A.

2.02 PIPE MATERIALS

A. PVC Pipe: ASTM D2241; 280 psi pressure rated upstream from controls, 200 psi downstream; solvent welded sockets.
B. Fittings: Type and style of connection to match pipe.
C. Pipe Risers at Valves: 200 psi PVC pipe.
D. Solvent Cement: ASTM D2564 for PVC pipe and fittings.
   1. Primer: ASTM F656.
E. Sleeve Material: PVC.

2.03 WARNING TAPE FOR BURIED PIPE

A. Plastic Warning Tape: Inert plastic film specifically formulated for prolonged underground use.
B. Minimum thickness: 4 mils.
C. Overall Tape Width: 12 inches for 8-inch and larger pipe and 6 inches for 6-inch and smaller pipe.
D. Lettering:
   1. Potable Water: Blue background with the following words in black letters: "CAUTION: POTABLE WATER-LINE BURIED BELOW".

2.04 WARNING LABELS FOR EXPOSED PIPE AND APPURTENANCES

A. Labels: Inert plastic film specifically formulated for prolonged exposure.
B. Minimum Thickness: 4 mils for adhesive backed labels and 10 mils for tag type labels.
C. Tag type labels shall have reinforced tie holes and shall be attached with heavy-duty nylon fasteners.
D. Provide with 1/2-inch high black letters (minimum):
   1. Potable Water: Blue background with the following words in black letters: "POTABLE WATER".
   2. The size and type of label will be dictated by each individual application and subject to acceptance by the Water District.

2.05 WITNESS MARKERS

A. Design:
   1. High visibility.
   2. Equipped with a barb or other such device to secure marker in the surrounding soil.
B. Materials: UV-resistant fiberglass.
C. Identification:
   1. Potable Water: Blue background with the following words in black letters: "POTABLE WATER".

2.06 OUTLETS

A. Outlets: Brass construction.
B. Bubbler: Adjustable outlet and pressure compensating.
   1. Pop-up Bubblers.
C. Quick Coupler:

2.07 VALVES

A. Gate Valves: Bronze construction non-rising stem.
B. Valves: As indicated on Drawings.
C. Backflow Preventers: Reduced pressure zone type.
   1. Basis of Design Product: Reduce Pressure as manufactured by Febco, or approved equal.
D. Valve Box and Cover:
E. Drain Valve: Spring-loaded-ball type of corrosion-resistant construction and designed to open for drainage if line pressure drops below 2-1/2 to 3 psig.
F. Drainage Backfill: Cleaned gravel or crushed stone, graded from 3/4 inch minimum to 3 inches maximum.

2.08 CONTROLS

A. Controller: Automatic controller, microprocessor solid state control with visible readout display, temporary override feature to bypass cycle for inclement weather, timer for a 6 station system, programmable for 14 days in quarter hour increments, with automatic start and shutdown.
B. Controller Housing: NEMA EN 10250 Type 4; weatherproof, watertight, with lockable access door.
C. Concrete Base: Reinforced precast concrete not less than 36 by 24 by 4 inches thick, and 6 inches greater in each direction than overall dimensions of controller. Include opening for wiring.
D. Valves: Electric Solenoid; normally closed; wiring, including required fittings and accessories.
E. Wire Conductors: Color coded.
   1. UL 493, Type UF multiconductor, with solid-copper conductors; insulated cable; suitable for direct burial.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install pipe, valves, controls, and outlets in accordance with manufacturer's instructions.
B. Install PVC piping in dry weather when temperature is above 40 deg F. Allow joints to cure at least 24 hours at temperatures above 40 deg F before testing.
C. Joint Construction:
   1. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
D. Connect to utilities.
E. Set outlets and box covers at finish grade elevations.
F. Valves: Install for underground piping in boxes for automatic control valves as indicated on the Drawings.

3.02 FIELD QUALITY CONTROL

A. Field inspection and testing will be performed under provisions of Section 01 40 00 - Quality Requirements.
B. Operational Test: After electrical circuitry has been energized, operate controllers and automatic control valves to confirm proper system operation.
C. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.03 BACKFILLING

A. Provide 3 inch sand cover over piping.

3.04 SYSTEM STARTUP

A. Prepare and start system in accordance with manufacturer's instructions.

3.05 MAINTENANCE

A. Provide a separate maintenance contract for specified maintenance service.

END OF SECTION

SECTION 32 93 00
PLANTING

PART 1 GENERAL

1.01 SUBMITTALS

A. Certificate: Certify fertilizer and herbicide mixture approval by authority having jurisdiction.
B. Certificate: Submit certificate for plants free of disease or hazardous insects; certified by federal department of agriculture; free of disease or hazardous insects.
C. Maintenance Data: Include cutting and trimming method ; types, application frequency, and recommended coverage of fertilizer .
D. Submit list of plant life sources.

1.02 FIELD CONDITIONS

A. Do not install plant life when ambient temperatures may drop below 35 degrees F or rise above 90 degrees F.
B. Do not install plant life when wind velocity exceeds 30 mph.

1.03 WARRANTY

A. Provide one year warranty.
B. Warranty: Include coverage for one continuous growing season; replace dead or unhealthy plants.
C. Replacements: Plants of same size and species as specified, planted in the next growing season, with a new warranty commencing on date of replacement.

PART 2 PRODUCTS

2.01 PLANTS

A. Plants: Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.

2.02 SOIL MATERIALS

A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; minimum pH value of 5.4 and maximum 7.0.

2.03 SOIL AMENDMENT MATERIALS

A. Water: Clean, fresh, and free of substances or matter that could inhibit vigorous growth of plants.
B. Fertilizer: Containing fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, as indicated in analysis.
   1. Amend soil based on soil analysis prepared prior to any planting.
C. pH Adjustments:
   1. Apply in accordance with manufacturer's instructions and recommendations.
D. Herbicides:
E. Pesticides:

2.04 MULCH

A. Organic Mulch: Maintain uniform appearance; may remove existing mulch. Use one of the following types:
   1. Wood chips ranging in size from 1/2 to 1 inch.
   2. Ground or shredded bark.

2.05 ACCESSORIES

A. Wrapping Materials: Burlap.
B. Stakes: Softwood lumber, pointed end.
C. Cable, Wire, Eye Bolts and Turnbuckles: Non-corrosive, of sufficient strength to withstand wind pressure and resulting movement of plant life.
D. Plant Protectors: Rubber sleeves over cable to protect plant stems, trunks, and branches.
E. Root Barrier: Basis of Design Product: EP Series Root Barrier Panels, model EP-2450 as manufactured by NDS, or approved equal.
F. Tree Protectors: Metal with galvanized rings.

2.06 PLANT SOIL MIX

A. A uniform mixture of 1 part peat and 3 parts topsoil by volume.

PART 3 EXECUTION

3.01 PLACING TOPSOIL

A. Spread topsoil to a minimum depth of 4 inches over area to be planted. Rake smooth.

3.02 FERTILIZING

A. Apply fertilizer in accordance with manufacturer's instructions.

3.03 PLANTING

A. Place plants as indicated.
B. Place plants for best appearance for review and final orientation by Architect.
C. Set plants vertical.
D. Saturate soil with water when the pit or bed is half full of topsoil and again when full.

3.04 INSTALLATION OF ACCESSORIES

A. Place decorative cover and membrane, where indicated on drawings.

3.05 PLANT SUPPORT

A. Stake trees per details on Drawings.

3.06 FIELD QUALITY CONTROL

A. Plants will be rejected if a ball of earth surrounding roots has been disturbed or damaged prior to or during planting.

3.07 MAINTENANCE

A. Provide a separate maintenance contract for specified maintenance service.
B. Provide one complete spring start-up and fall shutdown by installer at no extra cost to District.
C. Tree and Shrub Maintenance:
   1. Consider trees dead when main leader has died or when 25 percent or more of crown has died, except as otherwise indicated for palm trees.
   2. Adjust stakes, guys and turnbuckles, ties, and trunk wrap as required to promote growth and avoid girdling.
   3. Pruning: Unless otherwise indicated, prune only to maintain balanced natural shape; comply with recommendations of ANSI A300 Part 1, ANSI Z133.1, and best local practices for species involved.
   4. Shrubs: Prune at least once during maintenance period at best time to influence ultimate shape and size for particular species.
   5. Hedges: Trim to encourage growth into voids and gaps.
   6. Young Trees: Prune at least once during maintenance period at best time to influence ultimate shape and size for particular species; do not remove or cut off leader.

END OF SECTION

DIVISION 33 - UTILITIES

SECTION 33 01 10.58
DISINFECTION OF WATER PIPING SYSTEMS

PART 1 GENERAL

1.01 SUBMITTALS

A. Test Reports: Indicate results comparative to specified requirements.
B. Certificate: From authority having jurisdiction indicating approval of water system.
C. Certificate: Certify that cleanliness of water distribution system meets or exceeds specified requirements.
D. Disinfection report:
   1. Type and form of disinfectant used.
   2. Date and time of disinfectant injection start and time of completion.
E. Bacteriological report:
   1. Date issued, project name, and testing laboratory name, address, and telephone number.
   2. Time and date of water sample collection.

PART 2 PRODUCTS

2.01 DISINFECTION CHEMICALS

A. Chemicals: AWWA B300 Hypochlorite, AWWA B301 Liquid Chlorine, AWWA B302 Ammonium Sulfate, and AWWA B303 Sodium Chlorite.

PART 3 EXECUTION

3.01 DISINFECTION

A. Use method prescribed by the applicable state or local codes, or health authority or water purveyor having jurisdiction, or in the absence of any of these follow AWWA C651.
B. Inject treatment disinfectant into piping system.
C. Maintain disinfectant in system for 24 hours.
D. Flush, circulate, and clean until required cleanliness is achieved; use municipal domestic water.

3.02 FIELD QUALITY CONTROL

A. Test samples in accordance with AWWA C651.

END OF SECTION

SECTION 33 14 16
SITE WATER DISTRIBUTION PIPING

PART 1 GENERAL

1.01 ADMINISTRATIVE REQUIREMENTS

A. CFC 507 and 901 with NFPA Compliance: NFPA 24.
   1. Coordinate installation with sprinkler risers at building to match requirements with NFPA 13.
B. Local Fire Department/Fire Marshal Regulations: Comply with governing regulations pertaining to hydrants, including hose unit threading and similar matching of connections.

1.02 SUBMITTALS

A. Product Data: Provide data on pipe materials, pipe fittings, valves and accessories.
B. Project Record Documents: Record actual locations of piping mains, valves, connections, thrust restraints, and invert elevations. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.03 WARRANTY

A. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 WATER PIPE

A. General:
   1. Provide piping materials and factory-fabricated piping products of size, type, pressure ratings, and capacities as indicated on Drawings.
   2. Provide size and types matching piping and equipment connections; provide fittings of materials which match pipe materials used in potable water systems.
B. Piping:
   1. Provide pipe fittings and accessories of same material and weight/class as pipes, with joining method as indicated on Drawings.
C. PVC Pipe: ASTM D1785 Schedule 80, for sizes 1/2 inch through 3 inches.
   1. Fittings: ASTM D2466, PVC.
   2. Joints: ASTM D2855, solvent weld.
D. PVC Pipe: AWWA C900 Class Class 235 (formerly 150): for sizes 4 inches through 12 inches; UL Listed..
   1. Fittings: AWWA C111/A21.11, Schedule 40 per ASTM D2466 or schedule 80 per ASTM D2467.
   2. Joints: ASTM D3139 compression gasket ring.
E. Trace Wire: Magnetic detectable conductor, clear plastic covering, imprinted with "Water Service" in large letters.

2.02 VALVES

A. Valves: Manufacturer's name and pressure rating marked on valve body.
B. Gate Valves Up To 3 Inches:
   1. Brass or Bronze body, non-rising stem, inside screw, single wedge or disc, compression ends, with control rod, post indicator, valve key, and extension box.
C. Ball Valves Up To 2 Inches:
   1. Brass body, Teflon coated brass ball, rubber seats and stem seals, Tee stem pre-drilled for control rod, AWWA inlet end, compression outlet with electrical ground connector, with control rod, valve key, and extension box.

PART 3 EXECUTION

3.01 INSTALLATION - PIPE

A. Maintain separation of water main from sewer piping in accordance with plumbing code.
B. Group piping with other site piping work whenever practical.
C. Establish elevations of buried piping to ensure not less than 2 feet of cover.
D. Install pipe to indicated elevation to within tolerance of 5/8 inches.

3.02 INSTALLATION - VALVES, HYDRANTS, BACKFLOW PREVENTERS

A. Check operation of all valves before installing. Install valves true to line and grade. Install valves in accordance with AWWA C600 and manufacturer's written instructions. Wrap all buried, ferrous metal valves with polyethylene film in conformance with Section 5-4 of AWWA C105/A21.5.
B. Set valves on solid bearing.

END OF SECTION

SECTION 33 31 13
SITE SANITARY SEWERAGE PIPING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data indicating pipe, pipe accessories.
B. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
C. Field Quality Control Submittals: Document results of field quality control testing.
D. Project Record Documents:
   1. Record location of pipe runs, connections, manholes, cleanouts, and invert elevations.
   2. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

PART 2 PRODUCTS

2.01 SEWER PIPE MATERIALS

A. Provide products that comply with applicable code(s).
B. Plastic Pipe: ASTM D3034, Type SDR35, Poly(Vinyl Chloride) (PVC) material; inside nominal diameter of 4 to 8 inches, bell and spigot style solvent sealed joint end, green.
C. Fittings: Same material as pipe molded or formed to suit pipe size and end design, in required wyes, bends, cleanouts, reducers, traps and other configurations required.

2.02 PIPE ACCESSORIES

A. Trace Wire: Magnetic detectable conductor, clear plastic covering, imprinted with "Sewer Service" in large letters.

2.03 BEDDING AND COVER MATERIALS

A. Pipe Bedding Material: As specified in Division 31 - Earthwork and applicable City or County Standards.
B. Pipe Cover Material: As specified in Division 31 - Earthwork and applicable City or County Standards.

PART 3 EXECUTION

3.01 INSTALLATION - PIPE

A. Verify that trench cut is ready to receive work and excavations, dimensions, and elevations are as indicated on layout drawings.
B. Install pipe, fittings, and accessories in accordance with manufacturer's instructions. Seal watertight.
   1. Plastic Pipe: Also comply with ASTM D2321.
C. Lay pipe to slope gradients noted on layout drawings; with maximum variation from true slope of 1/8 inch in 10 feet.
D. Connect to building sanitary sewer outlet and municipal sewer system , through installed sleeves.
E. Install trace wire 6 inches above top of pipe; coordinate with the Section in Dvision 31 - Earthwork.

3.02 INSTALLATION - CLEANOUTS

A. Form and place cast-in-place concrete base pad, with provision for sanitary sewer pipe end sections.
B. Establish elevations and pipe inverts for inlets and outlets as indicated.
C. Mount lid and frame level in grout, secured to top cone section to elevation indicated.

END OF SECTION

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
ACCESS COMPLIANCE REVIEWER

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
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GENERAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS, THE PROJECT SPECIFICATIONS, THE GEOTECHNICAL ENGINEER'S REPORT, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK"), AND THE 2022 CALIFORNIA BUILDING CODE. ALL REFERENCE SPECIFICATIONS AND STANDARDS SHALL BE THE LATEST EDITION UNLESS OTHERWISE NOTED.
2. WHEN A TECHNICAL CONFLICT IS FOUND TO EXIST IN THE CONTRACT DOCUMENTS THAT CAN NOT BE RESOLVED BY REFERENCE TO PRECEDENCE PROVISIONS IN THE "GREEN BOOK", THE CONTRACTOR SHALL IMMEDIATELY REPORT SAID CONFLICT TO THE ENGINEER FOR RESOLUTION.
3. ALL MATERIALS AND METHODS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
4. OFF-SITE CONSTRUCTION PERMITS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE AGENCY HAVING JURISDICTION (AHJ).
5. ALL WORK UNDER THIS GRADING PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK WITHIN THE ROAD RIGHT-OF-WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW/APPROVAL (PERMIT) FROM THE AGENCY HAVING JURISDICTION.
6. NO MATERIAL OR EQUIPMENT SHALL BE STORED IN THE PUBLIC RIGHT OF WAY WITHOUT OBTAINING A SEPARATE PERMIT FOR THAT PURPOSE.
7. THE CONTRACTOR SHALL NOT OPERATE ANY FIRE HYDRANT OR WATER MAIN VALVES WITHOUT APPROPRIATE AGENCY AUTHORIZATION. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE WATER COMPANY FOR VALVE OPERATION AND WATER REQUIREMENTS.
8. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER OF RECORD, WHO SHALL PROVIDE RECORD DRAWINGS TO THE PROJECT ARCHITECT.
9. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
10. CONTRACTOR SHALL RELOCATE AND/OR REPLACE LANDSCAPING, SPRINKLERS, SIDEWALKS, AND PAVEMENT AFFECTED BY THE CONSTRUCTION TO THE SATISFACTION OF THE SITE INSPECTOR.

GRADING

11. MAXIMUM CUT AND FILL SLOPE = 2:1.
12. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8-INCH MAX OR AS RECOMMENDED IN SOILS REPORT), COMPACTED AND TESTED AS GRADING PROCESS UNTIL MASS GRADES ARE ATTAINED. ALL FILLS ON SLOPES STEEPER THAN 5 TO 1 (H/V) AND A HEIGHT GREATER THAN 5 FEET SHALL BE KEYED AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. THE BENCH UNDER THE TOE MUST BE 10 FEET WIDE MIN.
13. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN CLOSER THAN 10 FEET TO THE FINISHED GRADE.
14. THE WALLS AND FACES OF ALL EXCAVATIONS GREATER THAN FIVE (5) FEET IN DEPTH SHALL BE GUARDED BY SHORING, SLOPING OF THE GROUND OR OTHER APPROVED MEANS PURSUANT TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. TRENCHES LESS THAN FIVE (5) FEET SHALL ALSO BE GUARDED WHEN THE POTENTIAL EXISTS FOR GROUND MOVEMENT.
15. COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 31.22.00 PROJECTS WITHOUT PRELIMINARY SOILS REPORT SHALL HAVE DETAILED SPECIFICATIONS SATISFYING THE REQUIREMENTS IN SECTION 31.22.00 PREPARED BY THE EOR.
16. ADEQUATE CONSTRUCTION CONTROL STAKES SHALL BE SET BY THE SURVEYOR TO ENABLE THE CONTRACTOR TO CONSTRUCT THE WORK TO THE PLAN GRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF BENCHMARKS AND CONSTRUCTION CONTROL STAKING DURING CONSTRUCTION.
17. CARE SHOULD BE TAKEN TO PREVENT GRADES, DITCHES, AND SWALES FROM UNDERMINING EXISTING IMPROVEMENTS.

DRAINAGE AND EROSION/ DUST CONTROL

18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFECTIVE MEANS OF DUST CONTROL, INCLUDING ADEQUATE WATERING, AT ALL TIMES.
19. ALL GRADING OPERATIONS SHALL BE DISCONTINUED WHEN SUSTAINED WIND VELOCITIES EXCEED 25 MILES PER HOUR.
20. THE CONTRACTOR SHALL NOT CAUSE ANY EXCAVATED MATERIAL, MUD, SILT OR DEBRIS TO BE DEPOSITED ONTO PUBLIC OR PRIVATE PROPERTY ADJACENT TO THE RIGHT OF WAY DURING CONSTRUCTION WITHOUT PRIOR WRITTEN APPROVAL.
21. NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED.
22. DRAINAGE ACROSS THE PROPERTY LINE SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. EXCESS FOR CONCENTRATED DRAINAGE SHALL BE CONTAINED ON SITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY.
23. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
24. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPS) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
25. PROVIDE 5' WIDE BY 1' HIGH BERM ALONG THE TOP OF ALL FILL SLOPES STEEPER THAN 3:1.
26. THE GROUND IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED AWAY WITH 2% MIN FOR A MIN DISTANCE OF 10 HORIZONTAL FEET. SWALES WITHIN 10 FEET FROM BUILDING SHALL HAVE 2% MINIMUM SLOPE.

HARDSCAPE

27. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO MATCH EXISTING CONCRETE, UNLESS OTHERWISE NOTED ON THE CIVIL, ARCHITECTURAL, OR LANDSCAPE ARCHITECT'S PLANS.
28. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
29. PAVEMENT STRUCTURAL SECTIONS SHOWN ARE MINIMUM AND SUBJECT TO REVISION AND APPROVAL OF THE ENGINEER AS DETERMINED BY SOILS TESTS TAKEN AFTER COMPLETION OF ROUGH GRADING.
30. ACTUAL THICKNESS OF A.C. PAVEMENT AND/OR BASE COURSE MATERIAL FOR STRUCTURAL PAVEMENT SECTIONS SHALL BE RECOMMENDED BY A GEOTECHNICAL REPORT, OTHERWISE THE GEOTECHNICAL ENGINEER WILL CONFIRM THE ON-SITE PAVEMENT SECTIONS BASED ON FIELD MEASURED "R" SUB GRADE VALUES.
31. APPROVED SOIL STERILANT IS REQUIRED UNDER ALL NEW ASPHALT PAVEMENT PRIOR TO PLACEMENT.
32. ALL MANHOLES, CLEANOUT FRAMES, COVERS AND VALVE BOXES SHALL BE RAISED TO FINISHED GRADE BY THE PAVING CONTRACTOR UPON COMPLETION OF PAVING.
32. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RESTORE ALL SIGNING, STRIPING, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE SITE INSPECTOR.

UTILITIES

33. THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS.
34. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN.
35. CONTRACTOR IS TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITY CONNECTIONS AND CROSSINGS BY EXPLORATORY POTHOLES PRIOR TO CONSTRUCTION SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOUNT FOR SUCH IN SUBMISSION OF HIS/HER BID AND TO EXERCISE PROPER PRECAUTION TO AVOID DAMAGE THERETO.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.
37. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 811 TWO WORKING DAYS BEFORE EXCAVATION.
38. REFER TO ELECTRICAL PLANS FOR RELOCATION OF EXISTING PULL BOXES AND OTHER ELECTRICAL OR COMMUNICATION FACILITIES WITHIN THE AREA OF THE NEW BUILDING.
39. REFER TO IRRIGATION PLANS FOR RELOCATION, REMOVAL OR ABANDONMENT OF EXISTING IRRIGATION FACILITIES WITH THE AREA OF THE NEW BUILDING. COORDINATE WITH THE DISTRICT, LANDSCAPE ARCHITECT, AND ARCHITECT FOR ANY CONFLICTS WITH AND RELOCATION OF IRRIGATION LINES RESULTING FROM THE PROPOSED IMPROVEMENTS.
40. NO TRENCH BACKFILL SHALL TAKE PLACE WITHOUT PRIOR APPROVAL OF THE SITE INSPECTOR.
41. A GEOTECHNICAL ENGINEER SHALL CERTIFY ALL BACKFILL COMPACTION. FAILURE TO OBTAIN THE REQUIRED DENSITY SHALL REQUIRE RE-WORKING OF THAT PORTION OF THE WORK UNTIL THE SPECIFIED DENSITY IS OBTAINED
42. NO OPEN TRENCH SHALL BE ALLOWED AT THE END OF THE DAY WITHOUT PRIOR APPROVAL OF THE SITE INSPECTOR.
43. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE EXISTING FACILITIES, AND VERIFY ELEVATION AND LOCATION OF CONNECTIONS. DSA APPROVAL OF CONNECTIONS TO EXISTING FACILITIES DOES NOT IMPLY CORRECTNESS OF ELEVATIONS OR LOCATIONS SHOWN ON THE PLANS.
44. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO PAVING OPERATIONS
45. IF EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL AFFECTED DISCIPLINES IMMEDIATELY.

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS. CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES. CONTRACTOR IS TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITY CONNECTIONS AND CROSSINGS PRIOR TO CONSTRUCTION SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT.

CONTRACTOR IS RESPONSIBLE FOR SECURING COPIES OF THE STANDARD SPECIFICATIONS AND DESIGN GUIDELINES FROM THE AGENCIES OR MANUFACTURES REFERENCED IN THESE PLANS FOR CORRECT INSTALLATION OF THE PROPOSED INFRASTRUCTURE.

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BLDG	BUILDING
BRL	BOTTOM OF RAMP LANDING
BX	BOTTOM OF X
CL	CLASS
EXIST.	EXISTING
EG	EDGE OF GUTTER
FF	FINISH FLOOR
FG	FINISHED GRADE
FL OR ℄	FLOWLINE
FS	FINISHED SURFACE
INV	INVERT ELEVATION
LDSCP	LANDSCAPE
MAX	MAXIMUM
MIN	MINIMUM
PCC	PORTLAND CEMENT CONCRETE
P.I.P.	PROTECT IN PLACE
PROP.	PROPOSED
RELO.	RELOCATABLE
SD	STORM DRAIN
STD.	STANDARD
SWR	SEWER
S/W	SIDEWALK
TC	TOP OF CURB
TRL	TOP OF RAMP LANDING
TX	TOP OF X
TYP.	TYPICAL
WTR	WATER

LEGEND

- EXIST. PCC
- EXIST. LDSCP
- EXIST. AC
- EXIST. PLAY SURFACE
- SLURRY AC PAVING
- PROP. AC 2.5" AC/4" CL II AB
- PROP. AC 3.5" AC/6" CL II AB
- PROP. PCC
- PROP. LDSCP.
- PROP. DECOMPOSED GRANITE
- DEMO. EXIST. PCC
- DEMO. EXIST. LDSCP
- DEMO. EXIST. AC
- JOIN EXIST.
- (XX.XX) FS — EXIST. SPOT ELEVATION
- XX.XX FS — PROP. SPOT ELEVATION
- X.XX% — PROP. RATE OF GRADE
- (X.XX%) — EXIST. RATE OF GRADE

CONSTRUCTION NOTES-HARDSCAPE

10	PROTECT IN PLACE
11	CONSTRUCT 4" PCC SIDEWALK PER DETAIL A/C-4.0 - FINISH PER ARCH PLANS & SPECS
12A	CONSTRUCT MIN. 2.5" AC PAVEMENT OVER 4" CLASS II AB
12B	CONSTRUCT MIN. 3.5" AC PAVEMENT OVER 6" CLASS II AB
13A	CONSTRUCT REDWOOD HEADER PER DETAIL B/C-4.0
13B	CONSTRUCT 0.1" MIN. GRIND & VARIABLE AC OVERLAY PER DETAIL I/C-4.0
13C	CONSTRUCT FULL DEPTH AC REPLACEMENT PER DETAIL I/C-4.0
14	CONSTRUCT 3" AC RODENT BARRIER OVER NATIVE PER DETAIL C/C-4.0
15	CONSTRUCT FENCE & GATE PER ARCH. PLANS
16	CONSTRUCT TRUNCATED DOMES PER ARCH. PLANS
17	CONSTRUCT CURB A1-6 PER APWA STD. PLAN 120-2/C-4.0
18	CONSTRUCT CURB & GUTTER A2-6 PER APWA STD. PLAN 120-2/C-4.0
19	CONSTRUCT RIBBON GUTTER PER DETAIL H/C-4.0

CONSTRUCTION NOTES-STORM DRAIN

33	CONSTRUCT 4" SCH 40 PVC STORM DRAIN IN TRENCH DETAIL PER DETAIL E/C-4.0
34	CONSTRUCT CURB OUTLET PER DETAIL F/C-4.0
35	CONSTRUCT LANDSCAPE ATRIUM DRAIN PER DETAIL G/C-4.0

REGISTERED PROFESSIONAL ENGINEER — No. C46858 — Exp. 9/30/26 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

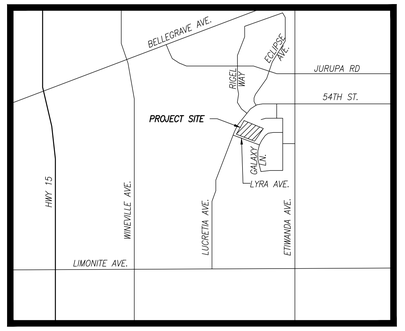
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

AGENCY APPROVAL
File No: 36-19 A#04-122780

RICK
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
951-782-0707
rickengineering.com
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
SAN LUIS OBISPO SANTA CLARITA PHOENIX
TUCSON LAS VEGAS DENVER

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS



VICINITY MAP

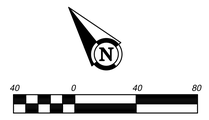
NTS

BENCHMARK

A TEMPORARY BENCHMARK ESTABLISHED AS A PK NAIL, DENOTED AS HORIZONTAL CONTROL POINT #3, WITH AN ELEVATION OF 709.595'

BASIS OF BEARING

A TEMPORARY BASIS OF BEARING ESTABLISHED BETWEEN A PK NAIL SET IN A CONCRETE SIDEWALK, DENOTED AS HORIZONTAL CONTROL POINT #3, AND A 60D NAIL SET IN A FIELD, DENOTED AS HORIZONTAL CONTROL POINT #4, BEING N 84°06'15" E



SCALE 1" = 40'

SHEET INDEX

C-1.0 ..... TITLE SHEET
C-2.0 ..... DEMOLITION SHEET
C-3.0 ..... PRECISE GRADING PLAN
C-4.0 ..... SECTIONS & DETAILS
C-5.0 ..... SEWER & WATER PLAN
C-6.0 ..... HORIZONTAL CONTROL PLAN

BUILDING AND PARKING ADDITION

PROJECT No. : 1-46-58
1/6/2025 3:59 PM

DRAWN BY:RCA CHECKED BY:RCA

DELTA # _____ DATE _____ ☐ ADD ☐ AFD ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFD ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFD ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFD ☐ CCD ☐ REV

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

BUILDING AND PARKING ADDITION
SKY COUNTRY ELEMENTARY SCHOOL
5520 LUCRETIA AVENUE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

TITLE SHEET

C-1.0

1-16-02

I-4
#

J-1
A#115374
FF=(712.57)
OFFICE

J-2
A#115374
FF=(712.48)
OFFICE

EXIST. FNC.
EXIST. CONTAINER
EXIST. PCC
EXIST. CONTAINER
EXIST. CONTAINER
EXIST. CONTAINER
EXIST. PCC
EXIST. AC
EXIST. PCC
EXIST. AC
EXIST. PCC
EXIST. BOLLARD
EXIST. FNC.
EXIST. PCC
EXIST. S.C.O.
EXIST. W.V.
EXIST. S.D.M.H.
EXIST. F.H.
EXIST. CURB & GUTTER
EXIST. CURB & GUTTER
R/W
LYRA AVENUE (N 69°15'00" W) ℄
155'
65'
55'
32'
12'
18'
30'

CONSTRUCTION NOTES-DEMOLITION

A	PROTECT IN PLACE
B	CLEAR & GRUB EXISTING LANDSCAPE/VEGETATION, REMOVE, RELOCATE, OR CAP INTERFERING PORTIONS OF EXISTING IRRIGATION SYSTEM AS DIRECTED PER THE LANDSCAPE ARCHITECT
C	SAWCUT, REMOVE & DISPOSE EXISTING PCC CURB & GUTTER
D	REMOVE & SALVAGE EXISTING FENCE, GATE, FOOTINGS & ASSOSIATED APPARATUS PER ARCH. PLANS, TURN OVER TO DISTRICT

10 0 10 20
SCALE 1" =10'

REGISTERED PROFESSIONAL ENGINEER — RICHARD C. ALEXANDER — No. C48358 — Exp. 9/30/26 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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RICK
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
951-782-0707
rickengineering.com
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
SAN LUIS OBISPO SANTA CLARITA PHOENIX
TUCSON LAS VEGAS DENVER

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BUILDING AND PARKING ADDITION

PROJECT No. : 1-46-58
1/6/2025 3:59 PM

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DELTA # ____ DATE ____ ☐ADD ☐AFO ☐CCD ☐REV
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DELTA # ____ DATE ____ ☐ADD ☐AFO ☐CCD ☐REV
DELTA # ____ DATE ____ ☐ADD ☐AFO ☐CCD ☐REV

BUILDING AND PARKING ADDITION
SKY COUNTRY ELEMENTARY SCHOOL
5520 LUCRETIA AVENUE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

DEMOLITION PLAN

C-2.0

1-16-02

-4
#

J-1
A#115374
FF=(712.57)
OFFICE

J-2
A#115374
FF=(712.48)
OFFICE

NEW MODULAR
F.F.=712.48

RELOCATED
MODULAR
F.F.=712.48

RELOCATED STORAGE CONTAINERS PER ARCH. PLANS

NEW SHADE STRUCTURE PER ARCH. PLANS

NO PARKING

EV CAPABLE

LYRA AVENUE (N 69°15'00" W) ℄

EXIST. F.H. 10

EXIST. W.V. 10

EXIST. S.D.M.H. 10

EXIST. S.C.O. 10

EXIST. BLRD. P.I.P. 10

EXIST. FNC. P.I.P. 10

CONSTRUCTION NOTES-HARDSCAPE

10	PROTECT IN PLACE
11	CONSTRUCT 4" PCC SIDEWALK PER DETAIL A/C-4.0 – FINISH PER ARCH PLANS & SPECS
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34	CONSTRUCT CURB OUTLET PER DETAIL F/C-4.0
35	CONSTRUCT LANDSCAPE ATTRIUM DRAIN PER DETAIL G/C-4.0

SCALE 1" =10'

REGISTERED PROFESSIONAL ENGINEER — No. C087688 — Exp. 9/30/26 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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File No: 36-19 A#04-122780

RICK
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
951-782-0707
rickengineering.com
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
SAN LUIS OBISPO SANTA CLARITA PHOENIX
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CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BUILDING AND PARKING ADDITION

PROJECT No. : 1-46-58
1/6/2025 4:09 PM

DRAWN BY:RCA CHECKED BY:RCA

DELTA #	DATE	ADD	AFO	CCD	REV		
DELTA #	DATE	ADD	AFO	CCD	REV		
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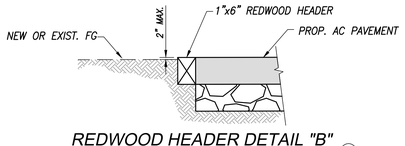
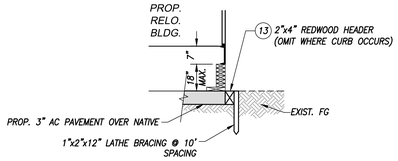


REDWOOD HEADER DETAIL "B" (34)

NTS



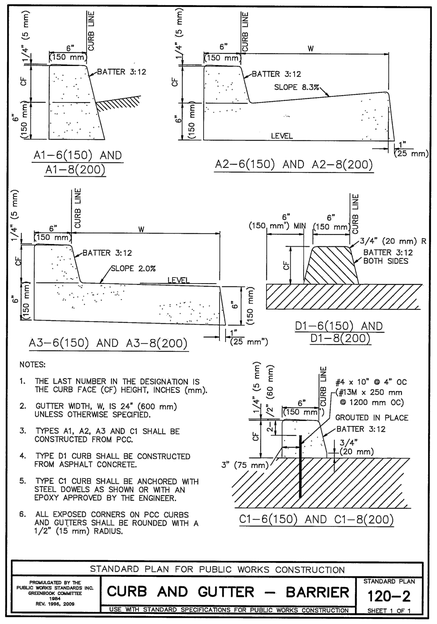
ASPHALTIC CONCRETE NOTES:

1. CONCRETE SHALL BE C2-PG 70-10

DETAIL "C" (14)

AC RODENT BARRIER

NTS



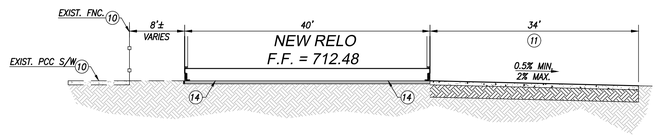
NOTES:

1. THE LAST NUMBER IN THE DESIGNATION IS THE CURB FACE (CF) HEIGHT, INCHES (mm).
2. GUTTER WIDTH, W, IS 24" (600 mm) UNLESS OTHERWISE SPECIFIED.
3. TYPES A1, A2, A3 AND C1 SHALL BE CONSTRUCTED FROM PCC.
4. TYPE D1 CURB SHALL BE CONSTRUCTED FROM ASPHALT CONCRETE.
5. TYPE C1 CURB SHALL BE ANCHORED WITH STEEL DOWELS AS SHOWN OR WITH AN EPOXY APPROVED BY THE ENGINEER.
6. ALL EXPOSED CORNERS ON PCC CURBS AND GUTTERS SHALL BE ROUNDED WITH A 1/2" (15 mm) RADIUS.

STANDARD PLAN FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1994 REV. 1998, 2000	CURB AND GUTTER – BARRIER	STANDARD PLAN 120-2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 1

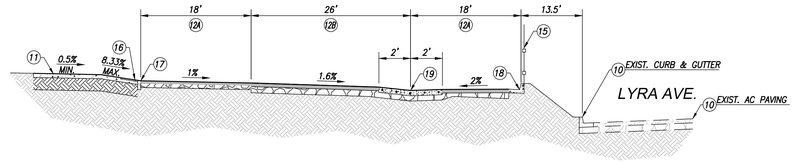
A1-6 CURB & A2-6 CURB & GUTTER (17)(18)

NTS



SECTION A-A

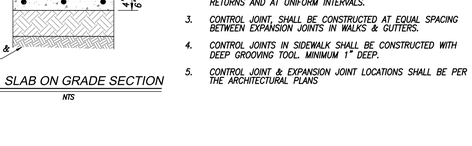
NTS



SECTION B-B

NTS

AC-PCC PAVING REPAIR



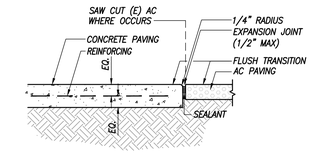
LANDSCAPE REPAIR

TRENCH DETAIL "E" (33)(40)(50)

NTS

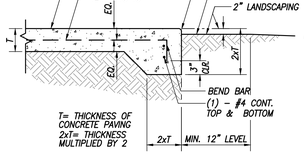
*6" TYPICAL MIN COVER FOR STORM DRAIN

** DENOTES TRENCH REPAIR IN EXISTING CONC./ASPHALT WALKS & PARKING FOR SEWER/WATER/SD, BACKFILL TRENCH TO PROPOSED SUBGRADE WITHIN NEW IMPROVEMENT PROJECT AREA ON SITE. WHERE PATCHES ARE REQUIRED TO PEDESTRIAN PAVEMENT, THEY SHALL COMPLY WITH 11B-302.1 AND 11B-303



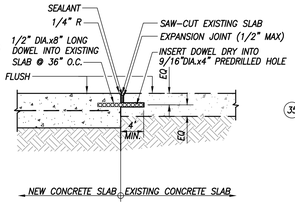
A.1 CONC. EDGE @ PAVING

NTS



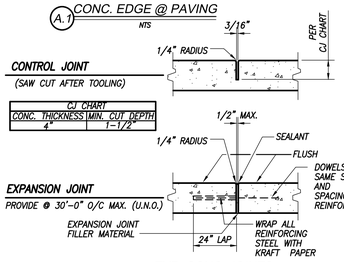
A.2 CONC. EDGE @ PLANTING

NTS



A.3 EXISTING CONC. JOIN

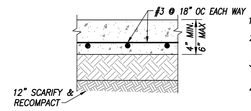
NTS



A.4 TYP. CONC. JOINTS

SEE ARCH FOR LOCATIONS

NTS



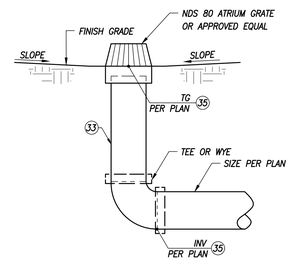
A.5 TYP. SLAB ON GRADE SECTION

NTS

DETAIL "A" (11)

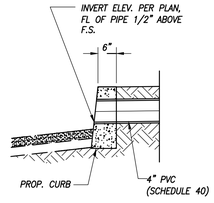
TYPICAL PCC PAVING

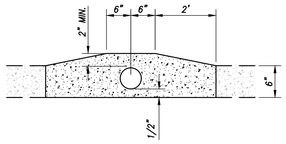
1. CONCRETE SHALL BE 560-C-3250 (fc @ 28 DAYS 3,250 psi)
2. EXPANSION JOINTS SHALL BE MADE AT B.C. & E.C. OF RETURNS AND AT UNIFORM INTERVALS.
3. CONTROL JOINT, SHALL BE CONSTRUCTED AT EQUAL SPACING BETWEEN EXPANSION JOINTS IN WALKS & GUTTERS.
4. CONTROL JOINTS IN SIDEWALK SHALL BE CONSTRUCTED WITH DEEP GROOVING TOOL. MINIMUM 1" DEEP.
5. CONTROL JOINT & EXPANSION JOINT LOCATIONS SHALL BE PER THE ARCHITECTURAL PLANS



LANDSCAPE ATRIUM DRAIN DETAIL "G" (35)

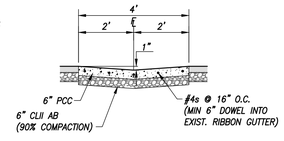
NTS





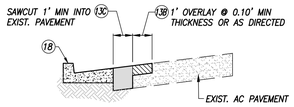
CURB OUTLET DETAIL "F" (34)

NTS



CONC. RIBBON GUTTER DETAIL "H" (19)

NTS



AC GRIND & OVERLAY DETAIL "I" (13B)(13C)

NTS

CONSTRUCTION NOTES-HARDSCAPE

10	PROTECT IN PLACE
11	CONSTRUCT 4" PCC SIDEWALK PER DETAIL A/C-4.0 – FINISH PER ARCH PLANS & SPECS
12A	CONSTRUCT MIN. 2.5" AC PAVEMENT OVER 4" CLASS II AB
12B	CONSTRUCT MIN. 3.5" AC PAVEMENT OVER 6" CLASS II AB
13A	CONSTRUCT REDWOOD HEADER PER DETAIL B/C-4.0
13B	CONSTRUCT 0.1' MIN. GRIND & VARIABLE AC OVERLAY PER DETAIL I/C-4.0
13C	CONSTRUCT FULL DEPTH AC REPLACEMENT PER DETAIL I/C-4.0
14	CONSTRUCT 3" AC RODENT BARRIER OVER NATIVE PER DETAIL C/C-4.0
15	CONSTRUCT FENCE & GATE PER ARCH. PLANS
16	CONSTRUCT TRUNCATED DOMES PER ARCH. PLANS
17	CONSTRUCT CURB A1-6 PER APWA STD. PLAN 120-2/C-4.0
18	CONSTRUCT CURB & GUTTER A2-6 PER APWA STD. PLAN 120-2/C-4.0
19	CONSTRUCT RIBBON GUTTER PER DETAIL H/C-4.0

CONSTRUCTION NOTES-STORM DRAIN

33	CONSTRUCT 4" SCH 40 PVC STORM DRAIN IN TRENCH DETAIL PER DETAIL E/C-4.0
34	CONSTRUCT CURB OUTLET PER DETAIL F/C-4.0
35	CONSTRUCT LANDSCAPE ATRIUM DRAIN PER DETAIL G/C-4.0

REGISTERED PROFESSIONAL ENGINEER — STRUCTURAL & APPLIED MECHANICS — No. 048688 — Exp. 9/30/26 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROBERT CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

AGENCY APPROVAL
File No: 36-19 A#04-122780

RICK
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
951-782-0707
rickengineering.com
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
SAN LUIS OBISPO SANTA CLARITA PHOENIX
TUCSON LAS VEGAS DENVER

CONSULTANT BRANDING

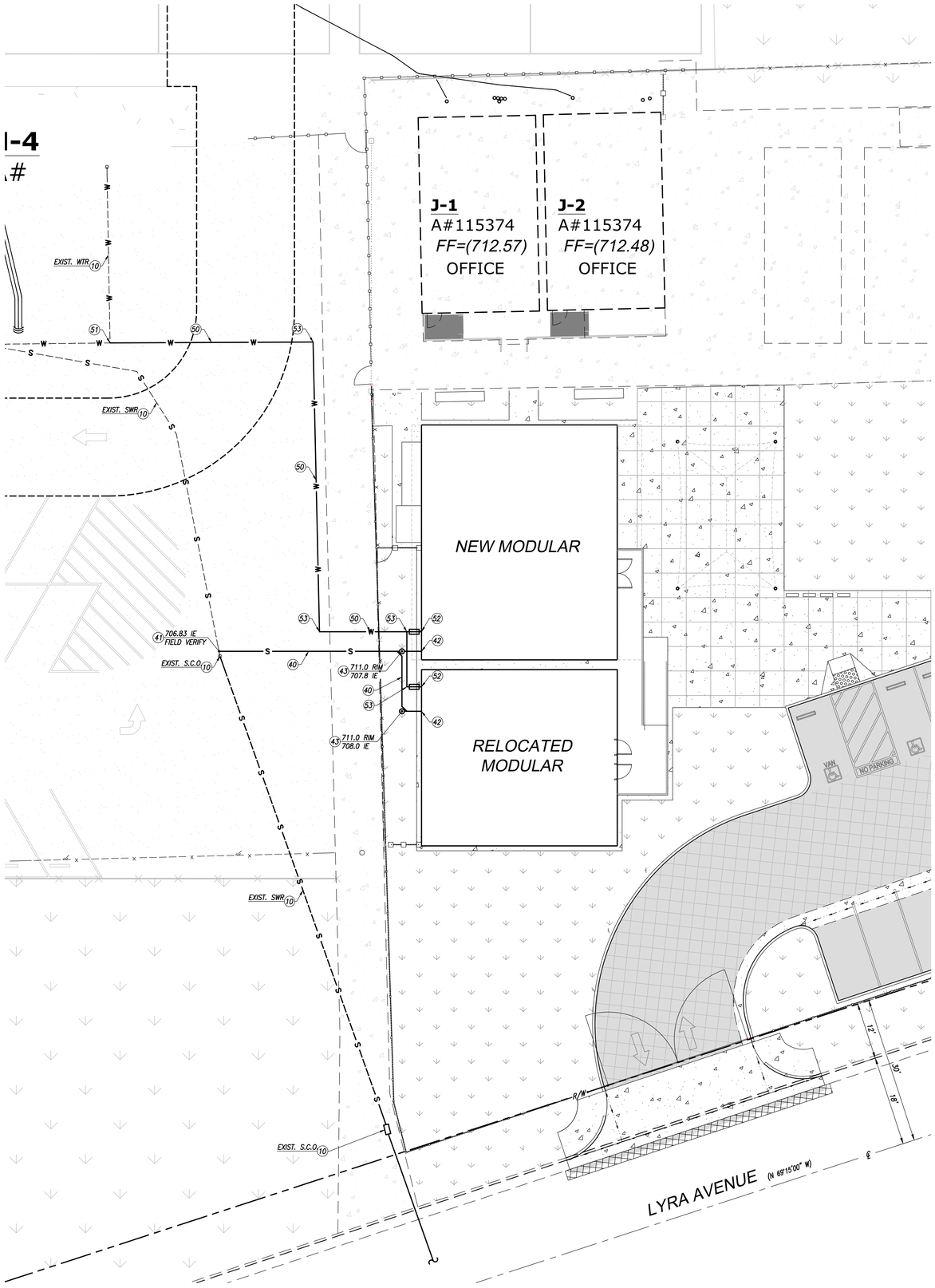
RUHNAU CLARKE ARCHITECTS

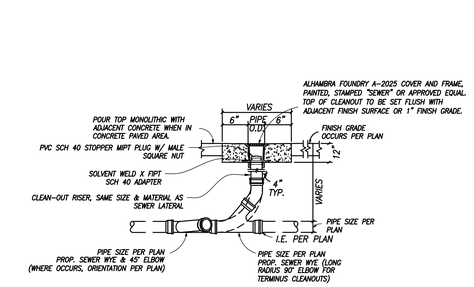
BUILDING AND PARKING ADDITION

PROJECT No. : 1-46-58
1/6/2025 4:00 PM

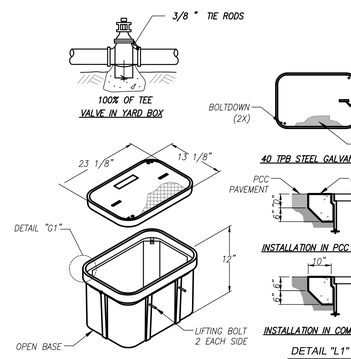
DRAWN BY:RCA CHECKED BY:RCA

DELTA #	DATE	ADD	AFD	CCD	REV
DELTA #	DATE	ADD	AFD	CCD	REV
DELTA #	DATE	ADD	AFD	CCD	REV
DELTA #	DATE	ADD	AFD	CCD	REV





DETAIL "G"
SEWER CLEANOUT
NTS (43)



DETAIL "L1"
NTS

DETAIL "H"
VALVE/YARDBOX (52)
(16-5/8"x26-5/8"x12" NOMINAL)
NTS

CONSTRUCTION NOTES

10	PROTECT IN PLACE

CONSTRUCTION NOTES-SEWER

40	CONSTRUCT 4" GREEN PVC SDR 35 SEWER LINE IN TRENCH DETAIL E/C-4.0
41	JOIN NEW SEWER PIPE TO EXISTING SEWER PIPE. CONTRACTOR TO FIELD VERIFY EXISTING LOCATIONS, DEPTHS, PIPELINE MATERIALS, & PROVIDE FITTINGS & ADAPTORS.
42	CONNECT NEW 4" GREEN PVC SDR 35 SEWER PIPE TO BUILDING POC PER BUILDING PLUMBING PLAN
43	CONSTRUCT SEWER CLEANOUT PER DETAIL G/C-5.0

CONSTRUCTION NOTES-WATER

50	CONSTRUCT 1" SCH 40 PVC WATER LINE IN TRENCH DETAIL E/C-4.0
51	JOIN EXISTING WATER PIPE BY REPLACING EXISTING ELBOW WITH TEE. CONTRACTOR TO FIELD VERIFY EXISTING LOCATIONS & PIPELINE MATERIALS, & PROVIDE FITTINGS & ADAPTORS.
52	CONNECT NEW 1" WATER PIPE TO WATER POC PER BUILDING PLUMBING PLAN W/ 1"X3/4" TEE & NEW 3/4" WATER PIPE & INSTALL GATE VALVE IN YARD BOX PER DETAIL H/C-5.0
53	CONSTRUCT 1" SCH 40 PVC FITTING

10 0 10 20
SCALE 1" =10'

REGISTERED PROFESSIONAL ENGINEER — RICHARD C. ALLEN — No. C48358 — Exp. 9/30/26 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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RICK
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
951-782-0707
rickengineering.com
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
SAN LUIS OBISPO SANTA CLARITA PHOENIX
TUCSON LAS VEGAS DENVER

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BUILDING AND PARKING ADDITION

PROJECT No. : 1-46-58
1/6/2025 4:00 PM

DRAWN BY:RCA CHECKED BY:RCA

DELTA #	DATE	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA #	DATE	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA #	DATE	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA #	DATE	☐ ADD	☐ AFO	☐ CCD	☐ REV

-4
#

J-1
A#115374
FF=(712.57)
OFFICE

J-2
A#115374
FF=(712.48)
OFFICE

NEW MODULAR

RELOCATED MODULAR

H.C.#1

H.C.#2

H.C.#3

H.C.#4

TEMPORARY BASIS OF BEARING

N 84°06'15" E

LYRA AVENUE (N 69°15'00" W)

EV CAPABLE

VAN

NO PARKING

HORIZONTAL CONTROL TABLE

POINT ELEV.	NORTHING	EASTING	DESCRIPTION	H.C.#
708.04'	1818015.8390	6704397.7040	PEN X	#1
707.94'	1818010.9490	6704410.5930	SCRB X	#2
709.60'	1818028.8670	6704424.3880	PK NAIL	#3
709.80'	1818050.5660	6704634.5170	60D NAIL	#4

SCALE 1" =10'

STAMPS

REGISTERED PROFESSIONAL ENGINEER — No. C081838 — Exp. 9/30/26 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — No. C-41390 — Exp. 10-31-27 — STATE OF CALIFORNIA

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RICK
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
951-782-0707
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SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
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CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

BUILDING AND PARKING ADDITION

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1/6/2025 4:00 PM

DRAWN BY:RCA	CHECKED BY:RCA				
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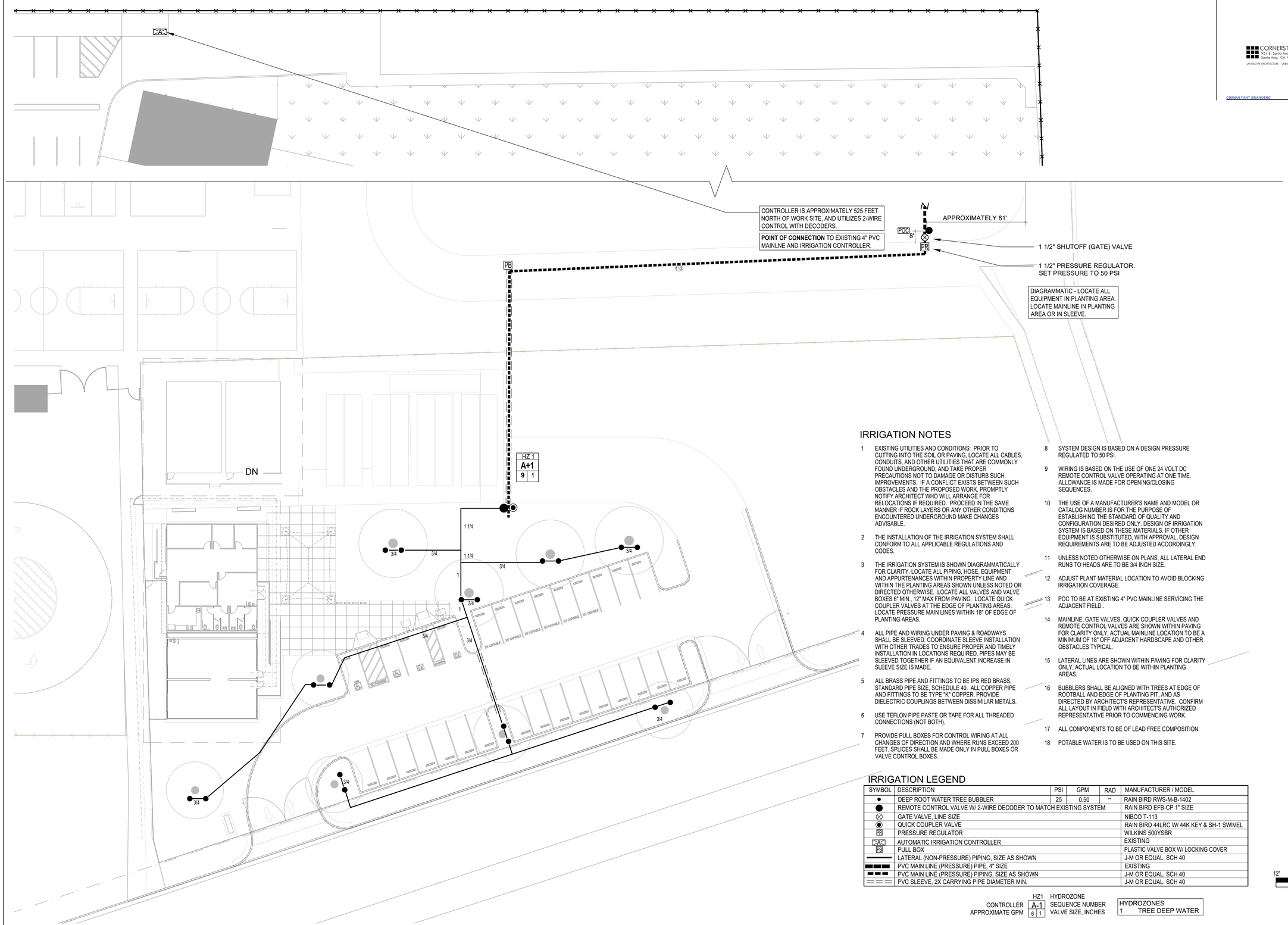
DELTA # _____ DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV	

BUILDING AND PARKING ADDITION
SKY COUNTRY ELEMENTARY SCHOOL
5520 LUCRETIA AVENUE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

HORIZONTAL CONTROL PLAN

C-6.0

1-16-02



IRRIGATION NOTES

1 EXISTING UTILITIES AND CONDITIONS: PRIOR TO CUTTING INTO THE SOIL OR PAVING, LOCATE ALL CABLES, CONDUITS, AND OTHER UTILITIES THAT ARE COMMONLY FOUND UNDERGROUND, AND TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH IMPROVEMENTS. IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK, PROMPTLY NOTIFY ARCHITECT WHO WILL ARRANGE FOR RELOCATIONS IF REQUIRED. PROCEED IN THE SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.

2 THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL CONFORM TO ALL APPLICABLE REGULATIONS AND CODES.

3 THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, HOSE, EQUIPMENT AND APPURTENANCES WITHIN PROPERTY LINE AND WITHIN THE PLANTING AREAS SHOWN UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES 6" MIN., 12" MAX FROM PAVING. LOCATE QUICK COUPLER VALVES AT THE EDGE OF PLANTING AREAS. LOCATE PRESSURE MAIN LINES WITHIN 18" OF EDGE OF PLANTING AREAS.

4 ALL PIPE AND WIRING UNDER PAVING & ROADWAYS SHALL BE SLEEVED. COORDINATE SLEEVE INSTALLATION WITH OTHER TRADES TO ENSURE PROPER AND TIMELY INSTALLATION IN LOCATIONS REQUIRED. PIPES MAY BE SLEEVED TOGETHER IF AN EQUIVALENT INCREASE IN SLEEVE SIZE IS MADE.

5 ALL BRASS PIPE AND FITTINGS TO BE IPS RED BRASS, STANDARD PIPE SIZE, SCHEDULE 40. ALL COPPER PIPE AND FITTINGS TO BE TYPE "K" COPPER. PROVIDE DIELECTRIC COUPLINGS BETWEEN DISSIMILAR METALS.

6 USE TEFLON PIPE PASTE OR TAPE FOR ALL THREADED CONNECTIONS (NOT BOTH).

7 PROVIDE PULL BOXES FOR CONTROL WIRING AT ALL CHANGES OF DIRECTION AND WHERE RUNS EXCEED 200 FEET. SPLICES SHALL BE MADE ONLY IN PULL BOXES OR VALVE CONTROL BOXES.

8 SYSTEM DESIGN IS BASED ON A DESIGN PRESSURE REGULATED TO 50 PSI.

9 WIRING IS BASED ON THE USE OF ONE 24 VOLT DC REMOTE CONTROL VALVE OPERATING AT ONE TIME. ALLOWANCE IS MADE FOR OPENING/CLOSING SEQUENCES.

10 THE USE OF A MANUFACTURER'S NAME AND MODEL OR CATALOG NUMBER IS FOR THE PURPOSE OF ESTABLISHING THE STANDARD OF QUALITY AND CONFIGURATION DESIRED ONLY. DESIGN OF IRRIGATION SYSTEM IS BASED ON THESE MATERIALS. IF OTHER EQUIPMENT IS SUBSTITUTED, WITH APPROVAL, DESIGN REQUIREMENTS ARE TO BE ADJUSTED ACCORDINGLY.

11 UNLESS NOTED OTHERWISE ON PLANS, ALL LATERAL END RUNS TO HEADS ARE TO BE 3/4 INCH SIZE.

12 ADJUST PLANT MATERIAL LOCATION TO AVOID BLOCKING IRRIGATION COVERAGE.

13 POC TO BE AT EXISTING 4" PVC MAINLINE SERVICING THE ADJACENT FIELD..

14 MAINLINE, GATE VALVES, QUICK COUPLER VALVES AND REMOTE CONTROL VALVES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYPICAL.

15 LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTING AREAS.

16 BUBBLERS SHALL BE ALIGNED WITH TREES AT EDGE OF ROOTBALL AND EDGE OF PLANTING PIT, AND AS DIRECTED BY ARCHITECT'S REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH ARCHITECT'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

17 ALL COMPONENTS TO BE OF LEAD FREE COMPOSITION.

18 POTABLE WATER IS TO BE USED ON THIS SITE.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	PSI	GPM	RAD	MANUFACTURER / MODEL
●	DEEP ROOT WATER TREE BUBBLER	25	0.50	--	RAIN BIRD RWS-M-B-1402
⬤	REMOTE CONTROL VALVE W/ 2-WIRE DECODER TO MATCH EXISTING SYSTEM				RAIN BIRD EFB-CP 1" SIZE
⊗	GATE VALVE, LINE SIZE				NIBCO T-113
◉	QUICK COUPLER VALVE				RAIN BIRD 44LRC W/ 44K KEY & SH-1 SWIVEL
PR	PRESSURE REGULATOR				WILKINS 500YSBR
CA-1	AUTOMATIC IRRIGATION CONTROLLER				EXISTING
PB	PULL BOX				PLASTIC VALVE BOX W/ LOCKING COVER
	LATERAL (NON-PRESSURE) PIPING, SIZE AS SHOWN				J-M OR EQUAL. SCH 40
	PVC MAIN LINE (PRESSURE) PIPE, 4" SIZE				EXISTING
	PVC MAIN LINE (PRESSURE) PIPING, SIZE AS SHOWN				J-M OR EQUAL. SCH 40
	PVC SLEEVE, 2X CARRYING PIPE DIAMETER MIN.				J-M OR EQUAL. SCH 40

HZ1 HYDROZONE
CONTROLLER A-1 SEQUENCE NUMBER
APPROXIMATE GPM 6 1 VALVE SIZE, INCHES

HYDROZONES
1 TREE DEEP WATER

12' 6' 0 12' 24' 36'
SCALE: 1/16"=1'-0"

PROJECT No. : 1-41-58
11/11/2025 4:14 PM

DRAWN BY:RCA CHECKED BY:RCA
DELTA # _____ DATE _____ ADD AFO CCD REV
DELTA # _____ DATE _____ ADD AFO CCD REV
DELTA # _____ DATE _____ ADD AFO CCD REV
DELTA # _____ DATE _____ ADD AFO CCD REV

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899 / 801 16TH STREET, SACRAMENTO, CA 95814 (916) 379-8111

CHILDREN & FAMILY SERVICES
WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
4850 PEDLEY ROAD, JURUPA VALLEY, CA 92509
JURUPA UNIFIED SCHOOL DISTRICT

IRRIGATION PLAN

L1.1

1-41-58

STAMPS

LICENSED LANDSCAPE ARCHITECT — LUNG PO RUHNAU — No. 6417 — Exp. 10-31-27 — STATE OF CALIFORNIA

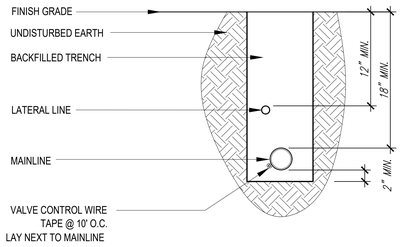
LICENSED ARCHITECT — ROGER CLARKE — No. C-41390 — Exp. 10-31-27 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CONSULTANT BRANDING

CORNERSTONE STUDIOS, INC.
951 E. Santa Ana Blvd.
Santa Ana, CA 92701
714.973.2200 Voice
714.973.0203 Fax
LANDSCAPE ARCHITECTURE URBAN DESIGN PLANNING RESOURCE ANALYSIS

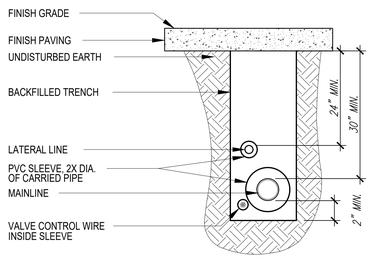
RUHNAU CLARKE ARCHITECTS



PROVIDE 2" OF CLEAN SAND UNDER ALL MAINLINE PIPE.
ALL IRRIGATION PIPE AND EQUIPMENT SHALL BE A MINIMUM
OF 18" IN FROM EDGE OF PAVING.

A Trenching in Planting Areas

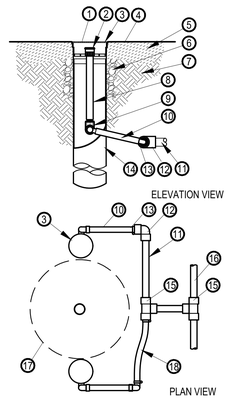
N.T.S.



PROVIDE 2" OF CLEAN SAND UNDER ALL MAINLINE PIPE.
ALL IRRIGATION PIPE AND EQUIPMENT SHALL BE A MINIMUM
OF 18" IN FROM EDGE OF PAVING.

B Trenching Under Paving

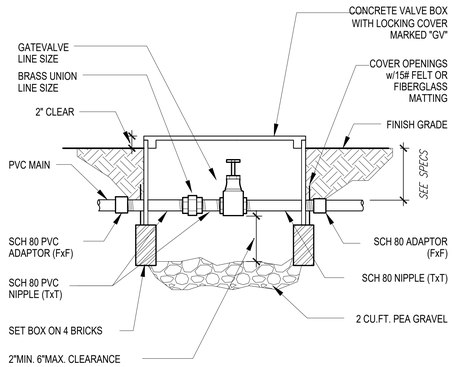
N.T.S.



1. 4 INCH GRATE
2. BUBBLER HEAD
3. RAIN BIRD RWS-M-B-G ROOT WATER SYSTEM
4. FINISH GRADE
5. DECOMPOSED GRANITE MULCH
6. 6" PEA GRAVEL FILL
7. UNDISTURBED SOIL
8. 1/2-INCH PVC SCH 80 NIPPLE
9. 1/2-INCH 90-DEGREE ELBOW
10. 12-INCH SWING ASSEMBLY
11. 1/2-INCH SCH 40 PVC PIPE
12. 1/2-INCH PVC SCH 40 ELL
13. 1/2-INCH MALE BARB x NPT FITTING W/ HOSE SCREW CLAMP
14. 4-INCH BASKET WEAVE CANISTER
15. 1/2-INCH SCH 40 PVC TEE
16. PVC LATERAL TO/FROM OTHER TREE LOCATIONS. SEE PLANS FOR SIZE
17. TREE ROOT BALL
18. ALTERNATE CONNECTION - USE RAIN BIRD SPX FLEX PIPE AND BARBED FITTINGS W/ ADAPTERS AND HOSE SCREW CLAMPS

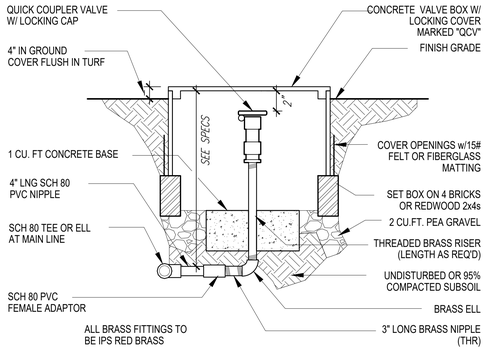
C Root Watering System

N.T.S.



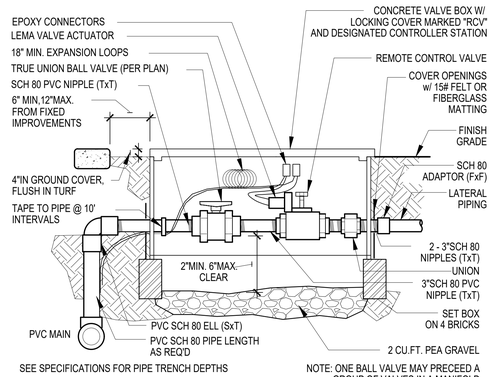
D Shut-Off Valve

N.T.S.



E Quick Coupler Valve

N.T.S.

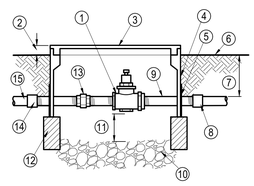


SEE SPECIFICATIONS FOR PIPE TRENCH DEPTHS

NOTE: ONE BALL VALVE MAY PRECEED A GROUP OF VALVES IN A MANIFOLD

F Remote Control Valve & Master Valve

N.T.S.



1. PRESSURE REGULATOR. SET AT 50 PSI.
2. 1" IN MULCH
3. PLASTIC VALVE BOX W/ LOCKING COVER
4. EXTENSIONS AS REQUIRED
5. COVER OPENINGS WITH LANDSCAPE FABRIC
6. FINISH GRADE
7. SEE SPECS
8. SCH 80 PVC ADAPTER (SxT)
9. 3 SCH 80 PVC NIPPLES (TxT)
10. 2 CU FT PEA GRAVEL MIN.
11. 2" MIN 6" MAX CLEAR
12. SET BOX ON FOUR BRICKS
13. BRASS UNION
14. SCH 80 PVC ADAPTER (SxT)
15. PVC MAIN

G Pressure Regulator

N.T.S.

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CONSULTANT BRANDING

CORNERSTONE STUDIOS, INC.
951 E. Santa Ana Blvd.
Santa Ana, CA 92701
714.973.2200 Voice
714.973.0203 Fax
LANDSCAPE ARCHITECTURE URBAN DESIGN PLANNING RESOURCE ANALYSIS

RUHNAU CLARKE ARCHITECTS

PROJECT No. : 1-41-58
11/11/2025 4:14 PM

DRAWN BY:RCA CHECKED BY:RCA

DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV

SECTION 32 84 13

POTABLE WATER IRRIGATION

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. POTABLE WATER IRRIGATION SYSTEM.

B. RELATED REQUIREMENTS:

1. DIVISION 01 - GENERAL REQUIREMENTS.
2. SECTION 01 4524 - ENVIRONMENTAL IMPORT/EXPORT MATERIALS TESTING.
3. DIVISION 22 - PLUMBING.
4. DIVISION 26 - ELECTRICAL.
5. SECTION 31 2313 - EXCAVATION AND FILL.
6. SECTION 31 2323 - EXCAVATION AND FILL (UTILITIES).
7. SECTION 32 8416 - IRRIGATION CONTROLS.
8. SECTION 32 8426 - RECLAIMED WATER IRRIGATION.
9. SECTION 32 9000 - PLANTING.

1.02 SUBMITTALS

A. MATERIALS LIST: PROVIDE MANUFACTURER'S NAME AND DESCRIPTION OF ITEMS TO BE FURNISHED.

B. PRODUCT DATA: PROVIDE CATALOG CUTS, TECHNICAL DATA, AND MANUFACTURER'S SPECIFICATIONS.

C. SHOP DRAWINGS: PROVIDE SHOP DRAWINGS INDICATING PROPOSED SYSTEM LAYOUT, LOCATIONS OF CONTROLLERS, VALVES, BACKFLOW DEVICES, FLOW SENSORS, MASTER VALVES, QUICK COUPLERS, HEADS AND POINT OF CONNECTIONS. INCLUDE DETAILS FOR SLEEVES, YARD BOXES, BACKFLOW DEVICES, AND CONTROLLER INSTALLATIONS.

D. PROVIDE PROOF OF PURCHASE FOR ENERGY SAVING DEVICES TO THE OWNER. OWNER WILL RECEIVE REBATES AS PART OF ENERGY SAVINGS PROGRAM.

E. RECORD DOCUMENTS

1. BEFORE CONTRACT COMPLETION, PROVIDE PROJECT RECORD DOCUMENTS AS FOLLOWS:
   a. INDICATE THE LOCATION OF EACH NUMBERED SPRINKLER CONTROLLED VALVES AND QUICK COUPLING VALVES WITH LEGIBLE DIMENSIONS FROM TWO PERMANENT POINTS OF REFERENCE SUCH AS BUILDING CORNERS OR SIDEWALKS.
2. CLOSEOUT SUBMITTALS-AS BUILT:
   a. SUBMIT THREE COPIES OF AS-BUILT INCLUDING COMPLETE LIST OF MATERIALS, MANUFACTURER'S NAME, AND PRODUCT INSTALLATION LITERATURES.
   b. RECORD DRAWINGS: SUBMIT DIMENSIONED DRAWINGS AND DETAILS, BEFORE CONTRACT COMPLETION.
   c. RECORD DRAWINGS SHALL CONTAIN THE FOLLOWING:
      1) AS-BUILT SHALL BE COMPUTER GENERATED (C.A.D.)
      2) PRINT SHALL SHOW THE LOCATIONS OF THE NUMBERED REMOTE CONTROL VALVES, MANUAL CONTROL VALVES, LOCATIONS AND SIZE OF SUPPLY AND LATERAL LINES, LOCATION AND TYPE OF SPRINKLER HEADS, QUICK COUPLING VALVES, GATE VALVES, BACKFLOW DEVICES, POINT OF CONNECTIONS, CONTROLLERS AND OTHER RELATED EQUIPMENT.
      3) DIMENSIONS SHALL BE LEGIBLE FROM TWO PERMANENT POINTS OF REFERENCE SUCH AS BUILDINGS AND SIDEWALKS.
      4) SHALL BE 24-INCH BY 36-INCH MINIMUM SIZE.
   d. PROOF OF BACKFLOW REGISTRATION:
      1) CONTRACTOR TO PROVIDE PROOF OF REGISTRATION WITH THE JURISDICTIONAL AUTHORITY.
      2) BACKFLOW TEST RESULTS SHALL BE ACCEPTABLE TO THE JURISDICTIONAL AUTHORITY.
3. OPERATION AND MAINTENANCE MANUALS:
   a. PROVIDE COMPLETE OPERATING AND MAINTENANCE INSTRUCTION MANUALS FOR EQUIPMENT.
   b. PROVIDE IN WRITING AS PART OF THE WATER MANAGEMENT PROGRAM THE CONTROLLER SETTINGS FOR WATER UNDER BEST MANAGEMENT PRACTICES NO. 5 HANDBOOK FOR ALL SEASONS. THIS SERVICE SHALL BE PERFORMED BY A CERTIFIED WATER AUDITOR AND PAID BY THE CONTRACTOR. THIS REPORT SHALL IDENTIFY DESIGNED CONTROLLER SETTING FOR WATER DISCHARGE AND ACTUAL INSTALLED DISCHARGED TESTED. THE AUDIT REPORT SHALL ALSO INCLUDE THE STATUS OF ITEMS INDICATED IN PARAGRAPH 1.07.C BASED ON FINAL INSPECTION AND TESTING.

1.03 REFERENCES

A. AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL (ASTM):

1. ASTM A53 - STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED AND SEAMLESS.
2. ASTM D1784 - STANDARD SPECIFICATION FOR RIGID POLY(VINYL CHLORIDE) (PVC) COMPOUNDS AND CHLORINATED POLY(VINYL CHLORIDE) (CPVC) COMPOUNDS.
3. ASTM D2466 - STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC PIPE FITTINGS, SCHEDULE 40.
4. ASTM D2467 - STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC PIPE FITTINGS, SCHEDULE 80.

B. AMERICAN SOCIETY OF MECHANICAL ENGINEERS INTERNATIONAL (ASME):

1. B36.10M - WELDED AND SEAMLESS WROUGHT STEEL PIPE.

C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):

1. ANSI B125.1 - WELDED AND SEAMLESS STEEL PIPE.
2. ANSI B125.2 - BLACK/HOT-DIPPED ZINC COATED WELDED/SEAMLESS PIPE.

D. FEDERAL SPECIFICATIONS:

1. FS WW-P-460 - PIPE FITTINGS: BRASS OR BRONZE.

1.04 QUALITY ASSURANCE

A. REGULATORY REQUIREMENTS:

1. COMPLY WITH LOCAL, MUNICIPAL AND STATE LAWS, RULES, AND REGULATIONS GOVERNING OR RELATING TO THIS WORK. WIRING SHALL CONFORM TO NATIONAL ELECTRICAL CODE.

B. BEST MANAGEMENT PRACTICES: CONFORM TO "HANDBOOK FIVE: A GUIDE FOR IMPLEMENTING LARGE SCALE IRRIGATION PROJECTS" AS REQUIRED BY THE CALIFORNIA WATER CONSERVATION IN LANDSCAPING ACT (ASSEMBLY BILL 325).

1. AB 325 CALIFORNIA CALCULATION OF ESTIMATED APPLIED WATER USE (EWU).
2. AB 325 CALIFORNIA CALCULATION OF MAXIMUM APPLIED WATER ALLOWANCE (MAWA).

C. CONFORM TO CALIFORNIA CODE OF REGULATIONS, TITLE 23, DIVISION 2, CHAPTER 2.7, MODEL WATER EFFICIENT LANDSCAPE ORDINANCE.

D. MANUFACTURERS INSTRUCTIONS: THE MANUFACTURER'S INSTRUCTIONS AND DETAILED DRAWINGS SHALL BE FOLLOWED WHERE THE MANUFACTURERS OF PRODUCTS AND/OR MATERIALS FURNISH INSTALLATION DETAILS NOT INDICATED IN THE DRAWINGS AND SPECIFICATIONS.

E. QUALIFICATIONS: WORK SHALL BE PERFORMED BY SKILLED WORKERS WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN WORK OF SIMILAR SCOPE AND COMPLEXITY.

F.DESIGNS AND MATERIALS USED SHALL CONFORM TO THE EFFICIENT LANDSCAPE ORDINANCE, AB 1881 WATER EFFICIENCY USE REQUIREMENTS.

1.05 PRODUCT HANDLING

A. DO NOT DAMAGE MATERIALS DURING HANDLING, LOADING, UNLOADING, AND STORAGE OF PIPE AND FITTINGS. STORE MATERIALS UNDER COVER, PROTECT FROM DIRECT SUNLIGHT. TRANSPORT MATERIALS IN A MANNER TO AVOID UNDUE STRESS ON PIPING AND OTHER MATERIALS.

B. DO NOT INSTALL DAMAGED MATERIALS OR PRODUCTS INTO THE WORK.

1.06 PROJECT CONDITIONS

A. BEFORE EXCAVATION, CONTACT THE "UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA" (USASC) FOR INFORMATION ON BURIED UTILITIES AND PIPELINES.

1.07 TESTING AND INSPECTION

A. NOTIFY THE PROJECT INSPECTOR 24 HOURS IN ADVANCE OF THE PRESSURE SIDE PIPING INSPECTION.

1. PRESSURE SIDE PIPING: AFTER WELDED JOINTS HAVE CURED FOR AT LEAST 24 HOURS, LINES FLUSHED AND OUTLETS ARE CAPPED, THE SYSTEM SHALL BE TESTED UNDER NORMAL STREET WATER PRESSURE FOR A MINIMUM OF 4 HOURS. JOINTS SHALL REMAIN EXPOSED FOR INSPECTION DURING THE PRESSURE TEST. CENTER LOADING OF PIPING WITH SMALL LOADS OF SAND BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE IS PERMITTED.
2. CORRECT DEFECTIVE WORK AND REPEAT TESTS UNTIL THE ENTIRE SYSTEM IS TESTED WATERTIGHT.

B. SUBMIT A REQUEST FOR A FINAL INSPECTION 48 HOURS IN ADVANCE. PERFORM A COVERAGE TEST TO DETERMINE IF THE COVERAGE OF WATER TO TURF AND PLANTING AREAS IS COMPLETE AND ADEQUATE AS REQUIRED.

C. FINAL INSPECTION: THE FOLLOWING ITEMS SHALL BE CONSIDERED PART OF THE FINAL INSPECTION:

1. SPECIFIED PRODUCTS AND MATERIALS.
2. IRRIGATION COVERAGE TEST, PROVIDING 100% HEAD TO HEAD COVERAGE.
3. SOILS COMPACTED IN TRENCHES AND AROUND SPRINKLER HEADS, LEVEL WITH EXISTING GRADES.
4. CONTROLLER AND CABINET INSTALLATION.
5. SPRINKLER CONTROL VALVES AND BOXES.
6. BACKFLOW DEVICES, PRESSURE REGULATORS, PUMPS.
7. AUTOMATIC SENSORS.
8. FINAL SITE REVIEW SHALL INCLUDE OPERATING EACH SYSTEM IN ITS ENTIRETY IN THE PRESENCE OF THE LANDSCAPE ARCHITECT OR PROJECT INSPECTOR.
9. PROVIDE ANY REQUIRED ADJUSTMENTS AND CORRECT DEFECTIVE WORK AS REQUIRED.

1.08 MAINTENANCE

A. EXTRA MATERIALS, TOOLS AND ACCESSORIES:

1. SPARE SPRINKLER HEADS: FURNISH TWELVE SPARE SPRINKLER HEADS, WITH INSERTS FOR EACH TYPE, SIZE AND SERIES INSTALLED.
2. KEYS AND WRENCHES:
   a. KEYS: FURNISH TWO TAGGED PIN TUMBLER TYPE KEYS.
   b. WRENCHES: FURNISH TWO SETS FOR EACH TYPE OF SPRINKLER HEAD OR NOZZLE.
   c. COUPLER: FURNISH A MINIMUM OF ONE QUICK COUPLER KEY (QUILL) AND AN ADDITIONAL KEY FOR EVERY THREE QUICK-COUPLER VALVES INSTALLED.

B. TRAINING:

1. BEFORE SUBSTANTIAL COMPLETION PROVIDE AT LEAST 4 HOURS OF TRAINING, BY AN AUTHORIZED REPRESENTATIVE OF THE CONTROLLER MANUFACTURER, FOR EACH TYPE OF IRRIGATION CONTROLLER INSTALLED.
2. INSTRUCT DESIGNATED OWNER PERSONNEL ON OPERATION AND PROGRAMMING OF THE IRRIGATION CONTROLLER AND HAND HELD CONTROLLER, DEMONSTRATING PROGRAM FEATURES.
3. REVIEW "AS-BUILT" PLANS WITH OWNER'S PERSONNEL AND EXPLAIN THE FOLLOWING FEATURES: MASTER VALVE, FLOW SENSOR, RAIN SENSORS, PUMP, BACKFLOW DEVICES AND LOCATIONS OF CRITICAL VALVES.
4. PROVIDE AN ATTENDANCE SHEET TO THE OWNER LISTING PERSONNEL TRAINED.

1.09 WARRANTY

A. PROVIDE A FIVE YEAR MANUFACTURER'S WARRANTY FOR CONTROLLER UNITS.

B. PROVIDE A ONE YEAR WARRANTY FOR MATERIALS, FABRICATION, AND INSTALLATION, INCLUDING RESTORATION OF PLANTED OR PAVED AREAS DUE TO SETTLEMENT OF TRENCHES.

PART 2 - PRODUCTS

2.01 IRRIGATION SYSTEM

A. SYSTEMS SHALL BE AUTOMATIC WITH ELECTRICALLY OPERATED CONTROL VALVES.

B. PROVIDE 100 PERCENT HEAD TO HEAD TRIANGULATED COVERAGE OR OTHER REQUIRED 100 PERCENT CONFIGURATION.

C. POINT OF CONNECTION (POC) FOR IRRIGATION SYSTEMS:

1. PROVIDE A SINGLE POC ON A DESIGNATED IRRIGATION METER, WITH FLOW MONITORING, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

D. NO PVC PIPING OF ANY KIND WILL BE PERMITTED FOR ABOVE GRADE PRESSURE LINES.

E. FULL METER PROTECTION IS REQUIRED FOR IRRIGATION SYSTEMS BY INSTALLING REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICES.

F.INSTALL ISOLATION VALVES IN ORDER TO AVOID A TOTAL SYSTEM SHUTDOWN FOR MAINTENANCE AND REPAIRS. INCLUDE VALVES TO ISOLATE LOOP SYSTEM AND MAJOR BRANCH LINES.

G. IRRIGATION SYSTEM SHALL INCORPORATE THE FOLLOWING REQUIREMENTS:

1. THE FLOW VELOCITY SHALL NOT EXCEED FIVE FEET PER SECOND FOR PRESSURE/LATERAL LINES BASED ON INDUSTRY STANDARD FRICTION PRESSURE LOSS VALUES.
2. PRESSURE LINE PIPE SIZE SHALL BE SUFFICIENT TO SUPPORT A MINIMUM OF TWO CONTROL VALVES OPERATING AT THE SAME TIME, ONE VALVE OPENING WHILE ANOTHER IS CLOSING.
3. G.P.M. DEMAND AND SPRINKLER HEAD COVERAGE SHALL FOLLOW THE MANUFACTURER'S REQUIREMENTS.
4. REMOTE VALVES SHALL BE SIZED NO SMALLER THAN THE PIPING IT SERVES UNLESS PIPING IS INCREASED IN SIZE TO REDUCE FRICTION LOSS. REMOTE VALVES SHALL THEN BE SIZED NO LESS THAN ONE PIPE SIZE SMALLER THAN THE PIPING IT SERVES.
5. MINIMUM PIPE SIZE SHALL BE ¾ INCH.

2.02 MATERIALS

A. PROVIDE ONLY NEW MATERIALS, OF BRANDS AND TYPES NOTED ON DRAWINGS AND IN THE SPECIFICATIONS.

B. PLASTIC PIPE AND FITTINGS:

1. PLASTIC PIPE: SCHEDULE 40, EXTRUDED FROM 100 PERCENT VIRGIN POLYVINYL CHLORIDE (PVC) COMPOUND, MEETING REQUIREMENTS OF CLASS 12454-B OF ASTM D1784.
   a. PLASTIC PIPE SHALL BE CONTINUOUSLY AND PERMANENTLY MARKED WITH THE FOLLOWING INFORMATION: MANUFACTURER'S NAME, NOMINAL PIPE SIZE, SCHEDULE OR CLASS, SDR (STANDARD DIMENSION RATIO, OR PRESSURE RATING IN PSI) NATIONAL SANITATION FOUNDATION (NSF).
2. PLASTIC FITTINGS: SCHEDULE 40 MOLDED FROM PVC TYPE I COMPOUND, CONFORMING TO THE REQUIREMENTS OF SPECIFICATION ASTM D2466.
   a. PLASTIC NIPPLES: PVC SCHEDULE 80 CONFORMING TO ASTM D2467.
   b. PVC MALE THREADED NIPPLES: SCHEDULE 80 ONLY.
3. PVC PRIMER AND SOLVENT FOR CHEMICAL WELD OF PIPE AND FITTINGS SHALL BE AS RECOMMENDED BY PIPE MANUFACTURER. CONTAINERS FOR SOLVENT AND PRIMER SHALL BE CLEARLY MARKED WITH MANUFACTURER'S DATA. SOLVENT AND PRIMER SHALL NOT BE MORE THAN ONE YEAR OLD. BLUE OR RED HOT GLUE IS NOT PERMITTED.
1. IPS WELD ON P-70 PRIMER.
2. IPS WELD ON 2711 (GRAY) CEMENT.

C. PIPE AND FITTINGS:

1. STEEL PIPE AND STEEL FITTINGS: (WHERE OCCURS AT EXISTING SCHOOLS ONLY): PIPE AND FITTINGS SHALL BE ASA SCHEDULE 40 GALVANIZED MILD STEEL SCREWED PIPE AND BEADED GALVANIZED MALLEABLE IRON SCREWED FITTINGS, INCLUDING COUPLINGS. THREAD ON PIPE AND FITTINGS SHALL BE TAPER TYPE, COMPLYING WITH ANSI SPECIFICATION B125.1, B125.2 AND ASTM A53. ABOVE GRADE FITTINGS SHALL COMPLY WITH ASME B36.10M AND ASTM. A53.
   a. UNIONS 2 INCH AND SMALLER SHALL BE GROUND JOINT PATTERN.
   b. UNIONS LARGER THAN 2 INCH SHALL BE FLANGED UNIONS.
   c. STEEL PIPE OR FITTINGS SHALL NOT BE INSTALLED BELOW GRADE.
   d. CONNECTION BETWEEN STEEL PIPE AND COPPER PIPE OR TUBE SHALL BE PROVIDED WITH A 6 INCH BRASS NIPPLE.
2. CONNECTION BETWEEN ANY FEMALE THREADED FITTING AND PLASTIC PIPE SHALL BE BRIDGED WITH A SCHEDULE 80 PVC NIPPLE.
3. BRASS PIPE: SEAMLESS, 85 PERCENT RED BRASS, IRON PIPE SIZED, THREADED.
4. BRASS FITTINGS: BRASS FITTINGS SHALL BE 250PSI RATED, THREADED FS WW-P-460.
5. COPPER PIPE, FITTINGS:
   a. PIPE: TYPE L RIGID.
   b. FITTINGS: WROUGHT COPPER, SOLDER JOINT TYPE.

D. VALVES: (PVC VALVES ARE NOT PERMITTED):

1. GATE VALVES ON PIPE 2 1/2-INCH AND LARGER SHALL BE AWWA SPECIFICATION, CLASS "D" STANDARD FLANGED, OR A COMBINATION OF OUTLETS AS REQUIRED, IRON BODY, BRASS TRIMMED, NON-RISING STEM. GATE VALVES 2-INCH OR SMALLER SHALL BE BRONZE, NON-RISING STEM, THREADED:
   a. WATTS 406-NRS-RW, OR EQUAL.
2. GATE VALVES 2 INCH OR SMALLER SHALL BE BRONZE, NON-RISING STEM, THREADED:
   a. NIBCO T113, MILWAUKEE 105, OR HAMMOND 1B 645.
3. QUICK COUPLER VALVES SHALL BE BRASS, 1 INCH, WITH LOCK TOP AND RESILIENT CAP.
   RAINBIRD 44LRC, CHAMPION QCV-100VL, BUCKNER QB 44LRC10, TORO 100-SLVLC, OR EQUAL.
   a. QUILLS SHALL BE THE SAME MANUFACTURER AS QUICK COUPLER VALVE, CAST BRONZE, MACHINE SHANK, STAINLESS STEEL OR BRONZE LUGS.
4. COUPLER KEYS (QUILLS) SHALL BE FROM THE SAME MANUFACTURER AS QUICK COUPLER VALVE; CAST BRONZE WITH STAINLESS STEEL OR BRONZE LUGS.
5. PRESSURE RELIEF VALVES SHALL BE SET AT A 150 PSI. BRONZE BODY WITH INTERNAL BRASS PARTS, STAINLESS STEEL SPRINGS, AND 3/4 INCH IPS, ANGLE TYPE, WITH PURGE LEVER:
   a. WILKINS P220, WATTS 31, OR EQUAL.
6. CHECK VALVES:
   a. SWING TYPE: CHECK VALVES SHALL BE 200 LBS. WOG: BRONZE SCREWED WITH REPLACEABLE NEOPRENE DISC. SHALL HAVE A STRAIGHT THROUGH PATTERN WITH CLOSING MEMBER SET ON ANGLE. OF SIZE AND TYPE INDICATED ON THE DRAWINGS. DISC SHALL CLOSE TIGHT TO PREVENT LOW HEAD DRAINAGE:
      1) WATTS SERIES WCV-2, NIBCO T-413, OR EQUAL.
   b. POP-UP TYPE: CHECK VALVES SHALL BE PVC BODY, NEOPRENE DISC, STAINLESS STEEL SPRING AND INTEGRAL COMPONENTS, STRAIGHT THROUGH PATTERN, SCREWED. VALVE TO BE ADJUSTABLE IN FIELD FROM5 FEET TO 40 FEET HEAD TO PREVENT LOW HEAD DRAINAGE. SIZE AND TYPE INDICATED ON DRAWINGS.
7. ELECTRIC REMOTE CONTROL VALVES SHALL BE 24 VOLT NORMALLY CLOSED SOLENOID ACTUATED VALVE, CAPABLE OF OPERATING ON 14 GAGE UF WIRE; EITHER BRONZE OR BRASS, GLOBE OR ANGLE PATTERN, AND DIAPHRAGM ACTUATED:
   a. SUPERIOR 950, RAINBIRD GB SERIES, OR EQUAL.
8. MANUAL SPRINKLER CONTROL VALVES ARE NOT ALLOWED.
9. MASTER CONTROL VALVES:
   a. SHALL BE A NORMALLY OPEN SOLENOID ACTUATED VALVE. VALVE SHALL HAVE A NPT INLET AND OUTLET, AND SHALL BE CAPABLE OF WORKING PRESSURES UP TO 150 PSI. SUPERIOR 3100, RAINBIRD, HUNTER, OR EQUAL.
   b. SHALL MEET REQUIREMENTS FOR AUTOMATIC VALVES, EXCEPT FOR THOSE INDICATED ON ARTICLE "A" ABOVE.
   c. SHALL BE INSTALLED WITH SEPARATE POWER AND COMMON WIRES.

E. SPRINKLER HEADS:

1. TREE AREA SPRINKLERS SHALL BE PRESSURE COMPENSATING FLOOD BUBBLES SURROUNDED BY A PERFORATED SLEEVE AND GRAVEL:
   a. RAINBIRD 1400 SERIES, TORO, HUNTER, OR EQUAL.
2. INSTALL ON TRIPLE SWING ASSEMBLIES: KING BROS. INDUSTRIES, TSA-0500-SS, HUNTER SJ-505, OR EQUAL, THROUGH SJ 712 OR SWING JOINTS ASSEMBLED WITH PVC SCHEDULE 80 NIPPLES AND MARLEX 90 DEGREE "L".

G TRACER WIRES: A NO. 14, GREEN, TYPE TW PLASTIC-COATED COPPER TRACER WIRE SHALL BE INSTALLED WITH NON-METALLIC IRRIGATION MAIN LINES.

H. CONTROL WIRES TO CONTROL VALVES: CONTROL WIRES TO ELECTRICALLY OPERATED SOLENOID VALVES SHALL BE DIRECT BURIAL TYPE UFH14 AWG COPPER, 3/64 INCH THICK PVC COATING. UL APPROVED FOR CLASS 2 WIRING FOR 24 VOLTS, 60 CYCLE AC, USE UL RECOGNIZED WATERPROOF CONNECTORS TO CONNECT CONTROL WIRES TO SOLENOIDS.

1. USE UL RECOGNIZED WATERPROOF CONNECTORS TO CONNECT CONTROL WIRES TO SOLENOIDS.
   a. SPEARS DRYSPLICE DS400 OR EQUAL.

I. VALVE BOXES:

1. RECTANGULAR VALVE BOXES SHALL BE GREEN PLASTIC 12-INCH WIDE, 18 INCH LONG, AND 12-INCH DEEP (OUTSIDE DIMENSIONS) OR LARGER AS MAY BE REQUIRED TO PROVIDE SPECIFIED CLEARANCES.
   a. NDS #314BCB OR EQUAL.
2. ROUND VALVE BOXES SHALL BE GREEN, 7-INCH DIAMETER BY 10-INCH HIGH WITH LOCKING COVER.
   a. NDS #312BCB OR EQUAL.
3. COVERS ON VALVE BOXES SHALL BE VANDAL RESISTANT, LOCKING, AND MARKED "WATER". TOPS OF BOXES SHALL BE SET FLUSH WITH FINISHED TURF GRADE OR 2-INCH ABOVE GRADE IN SHRUBBERY OR GROUNDCOVER AREAS.
   a. THE COVER SHALL BE IDENTIFIED WITH 3-INCH HIGH STENCILED LETTERS "RCV (WITH STATION NO.) GV FOR GATE VALVE, OR QC FOR QUICK COUPLER.
   b. DURA BOXES ARE NOT ALLOWED.

PART 3 - EXECUTION

3.01 CONNECTIONS TO SUPPLY

A. SOURCE OF WATER SUPPLY SHALL BE AS INDICATED ON THE DRAWINGS.

B. CONNECTION TO PIPING SHALL BE PROVIDED WITH PROPER FITTINGS:

1. WHEN CONNECTING TO POINT OF CONNECTION (POC) ABOVE GRADE PIPES SHALL BE COPPER WITH REQUIRED FITTINGS UNLESS OTHERWISE INDICATED.
2. POC FROM ABOVE TO BELOW GRADE TRANSITION SHALL BE COPPER PIPE TO A DEPTH OF 18 INCHES FROM TOP OF PIPE.
3. NO STEEL PIPE OR FITTING SHALL BE INSTALLED BELOW GRADE.
4. WHEN CONNECTING PLASTIC PIPE TO COPPER BELOW GRADE, PROVIDE A SCHEDULE 80 PVC NIPPLE.
5. EXPOSED COPPER OR BRASS MATERIAL ABOVE GRADE SHALL BE PAINTED GREEN IN COLOR.
6. CONNECT STEEL AND COPPER PIPE OR TUBE WITH A 6-INCH BRASS NIPPLE.

3.02 PIPE INSTALLATION

A. EXCAVATE TRENCHES DEEP ENOUGH TO PROVIDE EARTH COVERAGE OF 12 INCHES FOR NON-PRESSURE LINES AND 24 INCHES FOR PRESSURE LINES, FROM FINISHED GRADES TO TOP OF PIPE. BOTTOM OF TRENCHES SHALL BE FREE OF ROCKS, CLODS AND OTHER SHARP-EDGED OBJECTS. BELOW GRADE PIPING SHALL BE INSTALLED ON A FIRM SAND BED FOR ITS ENTIRE LENGTH.

B. PLASTIC PIPE AND FITTINGS SHALL BE SOLVENT WELDED. PVC PIPE ENDS SHALL BE CUT NINETY (90) DEGREES AND CLEANED OF CUTTING BURRS PRIOR TO CEMENTING. USE APPROVED REAMING TOOL. PIPE ENDS SHALL BE WIPED CLEAN WITH A RAG AND LIGHTLY WETTED WITH PVC PRIMER. CEMENT SHALL BE APPLIED WITH A LIGHT COAT ON THE INSIDE OF THE FITTING AND A HEAVIER COAT ON THE OUTSIDE OF THE PIPE. PIPE SHALL BE INSERTED INTO THE FITTING AND GIVEN A QUARTER TURN TO SEAT THE CEMENT. EXCESS CEMENT SHALL BE WIPED FROM THE OUTSIDE OF THE PIPE. THE PIPE WILL BE TESTED AS INDICATED IN PARAGRAPH 1.07.

C. CURE WELDED JOINTS AT LEAST 15 MINUTES BEFORE MOVING OR HANDLING, AND AT LEAST 24 HOURS BEFORE APPLYING PRESSURE TO SYSTEM, UNLESS OTHERWISE RECOMMENDED BY JOINT SOLVENT MANUFACTURER.

D. IRRIGATION PIPING INSTALLED UNDER A DRIVEWAY OR SIDEWALK SHALL BE SLEEVED. THE SLEEVES SHALL BE TWO PIPE SIZES LARGER THAN THE PRESSURE PIPING.

E. PIPING THROUGH CEMENT AND ASPHALT PAVEMENT SHALL BE L TYPE COPPER WITH ¼ INCH OF FOAM WRAP OR OTHER REQUIRED MATERIAL AROUND THE PIPE TO ALLOW FOR EXPANSION.

F.HOLES CORED THROUGH WALLS SHALL BE TWO PIPE SIZES LARGER TO ALLOW FOR FOAM WRAP AROUND PIPE.

G. PVC PIPES SHALL NOT BE INSTALLED ABOVE GRADE UNLESS REVIEWED BY THE ARCHITECT.

H. LETTERING SHALL BE FACE UP ON BELOW GRADE PVC PIPING. PIPE SERVING TREE AREAS SHALL BE LOCATED NOT MORE THAN 30 INCH FROM CENTER OF TREE AREA.

3.03 IRRIGATION HEAD INSTALLATION

A. INSTALL SPRINKLER HEADS WITH 100 PERCENT TRIANGULATED HEAD TO HEAD COVERAGE OR OTHER REQUIRED 100 PERCENT HEAD TO HEAD COVERAGE METHOD WHERE INDICATED.

B. TO INSURE PROPER COVERAGE SPRAY HEADS AND ROTARY HEADS SHALL BE INSTALLED ON SEPARATE CONTROL VALVES.

C. INSTALL HEADS AND OR CHANGE HEADS, NOZZLES, OR ORIFICES AS MAY BE REQUIRED TO PROVIDE COVERAGE.

D. BRANCH LINES, SWING JOINTS OR SPRINKLER RISERS SHALL NOT BE SIZED SMALLER THAN THE SPRINKLER HEADS INLET THEY SERVE.

F.POP-UP HEAD INSTALLATION:

1. POP-UP HEAD SHALL BE INSTALLED FLUSH WITH FINISHED GRADE AND 24 INCH FROM EDGE OF WALKS, AND 9 INCHES FROM BUILDINGS TO PARKING AREAS.
2. INSTALL POP-UP HEADS ON FACTORY ASSEMBLED TRIPLE-SWING JOINTS OR TRIPLE-SWING JOINTS ASSEMBLED WITH PVC SCHEDULE 80 NIPPLES AND MARLEX 90 DEGREE ELBOWS.

3.04 VALVE BOX INSTALLATION

A. AUTOMATIC CONTROL VALVES SHALL BE ENCLOSED IN VALVE BOXES OF HDPE OR POLYOLEFIN FIBROUS MATERIAL, WITH LOCKING LIDS.

B. VALVE BOXES SHALL BE OF SUFFICIENT SIZE TO PROVIDE NO LESS THAN 1-1/2 INCH OF CLEARANCE ON ALL SIDES OF EQUIPMENT INSTALLED WITHIN. THE BOTTOM SECTION SHALL BE SLOTTED SO AS TO EXTEND BELOW THE PIPE. EXTENSIONS SHALL BE ADDED AS REQUIRED TO MEET GRADE REQUIREMENTS.

C. VALVE BOXES INSTALLED IN CONCRETE OR ASPHALT SHALL BE SET ONE INCH BELOW PIPE AND EXTENSIONS SHALL BE ADDED AS REQUIRED TO MEET GRADE REQUIREMENTS. A HOMOGENEOUS FINISHED MATERIAL SHALL SURROUND VALVE BOXES 4 INCHES BELOW FINISHED GRADE AND MATCH EXISTING GRADE CONDITIONS.

D. VALVE BOXES SHALL BE INSTALLED LEVEL TO FINISH GRADE EXCEPT IN GROUND COVER AREAS WHICH SHALL EXTEND 2 INCHES ABOVE FINISH GRADE.

E. BOTTOM OF VALVE BOXES SHALL BE SET LEVEL ON 4 FULL SIZE CORNER BRICKS ON 2 INCHES OF GRAVEL BED.

F.PEA GRAVEL SHALL BE FILLED UP TO THE BOTTOM OF THE MANUAL AND REMOTE VALVE AND AT LEAST 4 INCHES OF GRAVEL INSIDE OF THE VALVE BOX.

3.05 QUICK COUPLER VALVES AND ASSEMBLIES

A. QUICK COUPLERS SHALL BE ONE INCH BRASS WITH ONE OR TWO PIECE BODIES AND LOCKING BRASS TOPS WITH RUBBER COVER.

1. FOR TYPICAL BASEBALL INFIELD APPLICATION BEHIND PITCHER'S MOUND, USE QUICK COUPLER INSTALLED IN 8-INCH ROUND, BOLTED, YARD BOX.
2. FOR FOOTBALL FIELDS, INSTALL QUICK COUPLER UP AGAINST CEMENT CURB SURROUNDING THE FOOTBALL FIELD, AND AS INDICATED ON THE DRAWINGS.
3. FOR ATHLETIC FIELDS, INSTALL AT THE PERIMETER OF THE FIELD, AND AS INDICATED ON THE DRAWINGS.
4. IN OTHER APPLICATIONS, INSTALL NEXT TO WALKWAYS.
5. TOP OF QUICK COUPLER ASSEMBLY SHALL BE INSTALLED WITHIN 2 INCHES FROM BOTTOM OF COVER.
6. QUICK COUPLER SUPPLY PIPING SHALL ORIGINATE FROM A POINT OF CONNECTION UPSTREAM OF THE MASTER VALVE.

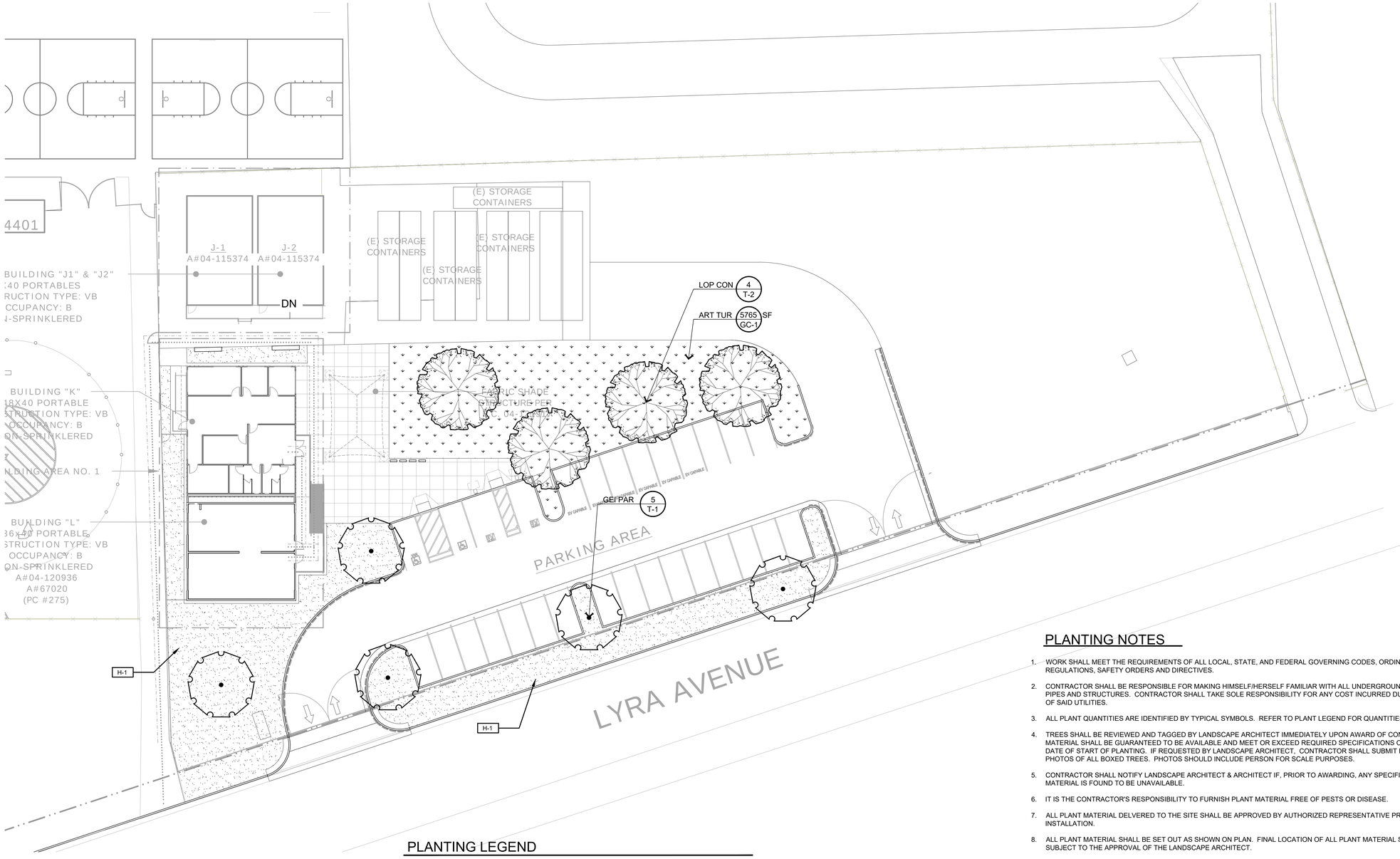
3.07 VALVES

A. ISOLATION AND SHUT-OFF VALVES

1. PRESSURE PIPING SYSTEM SHALL BE FURNISHED WITH VALVES AT POINTS INDICATED ON DRAWINGS OR SPECIFIED.
2. VALVES SHALL BE INSTALLED WITH NEAT APPEARANCE AND GROUPINGS, SO PARTS ARE EASILY ACCESSIBLE. VALVES NEAR WALKS, CURBS ETCETERA, TO BE SET-IN 12 INCHES AND PARALLEL TO THE ADJACENT SURFACE. REMOTE CONTROL VALVES SHALL BE INSTALLED IN GROUND COVER OR SHRUB AREAS WHEREVER POSSIBLE.
3. VALVES SHALL BE FULL SIZE OF LINE IN WHICH THEY ARE INSTALLED UNLESS OTHERWISE INDICATED.

B. REMOTE CONTROL VALVES:

1. REMOTE CONTROL VALVES SHALL BE LOW WATTAGE (24 VOLTS,) AND SHALL BE CAPABLE OF OPERATING PROPERLY ON NO LARGER THAN #14 GAGE UF WIRE.
2. REMOTE CONTROL VALVES SHALL BE ADJUSTABLE TO CONTROL FLOW OF WATER THROUGH VALVE ADJUSTMENTS AND SHALL BE ACCESSIBLE THROUGH VALVE BOXES INSTALLED ABOVE EACH VALVE. VALVES SHALL BE HIGHEST QUALITY OF MANUFACTURER.
3. REMOTE CONTROL VALVES SHALL BE INSTALLED AND ADJUSTED SO THAT SPRINKLER HEADS OPERATE AT PRESSURE RECOMMENDED BY HEAD MANUFACTURER. REMOTE CONTROL VALVES SHALL BE ADJUSTED SO THAT SPRINKLER HEADS TO PLANTING AREAS FROM EACH INDIVIDUAL VALVE SYSTEM APPLIES A UNIFORM DISTRIBUTION OF WATER.
4. REMOTE CONTROL VALVES ON ANY LINE SHALL BE INSTALLED 3-INCH MINIMUM, 8-INCH MAXIMUM BELOW FINISH GRADE TO TOP OF FLOW CONTROL STEM.
5. REMOTE CONTROL VALVES SHALL BE INSTALLED WITH SCHEDULE 80 PVC NIPPLES ON EACH SIDE OF THE VALVE.
6. VALVES FOR LAWN AND SHRUB AREAS SHALL BE INSTALLED WITHIN THE PERIMETER OF THE AREA IT SERVES. THE LOCATION SHALL BE ACCESSIBLE WITHIN 12 INCHES FROM CURB OR SIDEWALK AND INSTALLED IN A LOCATION TO AVOID WETTING THE PERSON OPERATING THE VALVE MANUALLY.
7. REMOTE CONTROL VALVES FOR ATHLETIC FIELDS SHALL BE INSTALLED IN ONE OF THE FOLLOWING SPECIFIED LOCATIONS:
   a. CONTROL VALVES SHALL BE INSTALLED IN GROUPS OF THREE OR MORE. THEY SHALL BE INSTALLED ON THE PERIMETER OF THE ATHLETIC FIELD IN VALVE BOXES.
   b. CONTROL VALVES ABOVE GROUND SHALL BE GROUPED TOGETHER AND INSTALLED ON THE PERIMETER OUTSIDE OF THE ATHLETIC FIELD, ON A COPPER MANIFOLD AND ENCLOSED IN A SECURE FENC



PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	DETAIL REFERENCE
TREES					
T-1	GEIJERA PARVIFLORA	AUSTRALIAN WILLOW	36" BOX STANDARD	5	DETAIL A / L2.2
T-2	LOPHOSTEMON CONFERTUS	BRISBANE BOX TREE	36" BOX STANDARD	4	DETAIL A / L2.2
GROUNDCOVER					
GC-1	ARTIFICIAL TURF, SELECT EL BY FOREVERLAWN OR EQUAL.			5,765 SF	DETAIL B / L2.2
HARDSCAPE					
H-1	STABILIZED DECOMPOSED GRANITE, COLOR: CALIFORNIA GOLD BY DECORATIVE STONE SOLUTIONS OR APPROVED EQUAL			6,865 SF	DETAIL D / L2.2

BOTANICAL NAME (ABBREVIATED)
PLANT COUNT
PLANT REF.
SF 900 SPE GEN (A-1)
SPE GEN 100 SF (A-1)

PLANTING NOTES

1. WORK SHALL MEET THE REQUIREMENTS OF ALL LOCAL, STATE, AND FEDERAL GOVERNING CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS AND DIRECTIVES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF/HERSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. ALL PLANT QUANTITIES ARE IDENTIFIED BY TYPICAL SYMBOLS. REFER TO PLANT LEGEND FOR QUANTITIES.
4. TREES SHALL BE REVIEWED AND TAGGED BY LANDSCAPE ARCHITECT IMMEDIATELY UPON AWARD OF CONTRACT. PLANT MATERIAL SHALL BE GUARANTEED TO BE AVAILABLE AND MEET OR EXCEED REQUIRED SPECIFICATIONS ON ESTIMATED DATE OF START OF PLANTING. IF REQUESTED BY LANDSCAPE ARCHITECT, CONTRACTOR SHALL SUBMIT FOR APPROVAL PHOTOS OF ALL BOXED TREES. PHOTOS SHOULD INCLUDE PERSON FOR SCALE PURPOSES.
5. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT & ARCHITECT IF, PRIOR TO AWARDING, ANY SPECIFIED PLANT MATERIAL IS FOUND TO BE UNAVAILABLE.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL FREE OF PESTS OR DISEASE.
7. ALL PLANT MATERIAL DELVERED TO THE SITE SHALL BE APPROVED BY AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
8. ALL PLANT MATERIAL SHALL BE SET OUT AS SHOWN ON PLAN. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
9. ALL TREES PLANTED NEXT TO CURBS SHALL BE AT LEAST 36" CLEAR FROM CURB FACE.
10. ANY TREE SHOWN ON PLAN TO BE INSTALLED LESS THAN 4' CLEAR DISTANCE FROM ANY CURB, WALKWAY, OR FOUNDATION, SHALL BE INSTALLED IN A ROOT CONTROL BARRIER DETAIL C, SHEET L-2.2.
11. ALL AREAS LESS THAN 4:1 SLOPE SHALL BE COVERED WITH 3" ORGANIC MULCH (SPEC MULCH BY RECYCLED WOOD PRODUCTS OR APPROVED EQUAL). SUBMIT 1 CU. FT. SAMPLE PRIOR TO APPLICATION.
12. MINIMUM 2 SOIL SAMPLES SHALL BE TAKEN BY CONTRACTOR AFTER GRADING OPERATIONS ARE COMPLETED FOR SOIL FERTILITY AND AGRICULTURAL SUITABILITY TESTING AND RECOMMENDATIONS BY AN APPROVED LABORATORY. SEE SPECIFICATIONS FOR SOIL AMENDMENTS SPECIFIED FOR BIDDING PURPOSES ONLY. SUBMIT SOIL REPORT TO SCHOOL DISTRICT AND LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE AS PER RECOMMENDATIONS IN SOILS REPORT.
13. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE OPERATIONS.
14. REMOVE AND REPLACE MINIMUM 24" OF SOIL IN PLANTING AREAS PREVIOUSLY PAVED OR AREAS WITH HIGHLY COMPACTED SOILS PER JURUPA UNIFIED SCHOOL DISTRICT SPECIFICATIONS.
15. ALL TREES PLANTED IN TREE WELLS WILL RECEIVE ROOT BARRIERS.
16. CONTRACTOR TO COORDINATE WITH THE DISTRICT OAR AND THE DISTRICT ARBORIST TO CONFIRM THE STATUS OF ALL TREES WITH IN THE AREA OF SCOPE OF WORK. CONTRACTOR TO CONDUCT A SITE MEETING WITH THE DISTRICT OAR AND ARBORIST BEFORE DEMOLITION COMMENCES AND DURING DEMOLITION WITHIN AREAS OF SCOPE OF WORK WITH TREES.

N

12' 6' 0 12' 24' 36'
SCALE: 1/16"=1'-0"

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LICENSED ARCHITECT — ROGER CLARKE — No. C-21586 — Exp. 10-31-27 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

STAMPS

CORNERSTONE STUDIOS, INC.
951 E. Santa Ana Blvd.
Santa Ana, CA 92701
714.973.2200 Voice
714.973.0203 Fax
LANDSCAPE ARCHITECTURE URBAN DESIGN PLANNING RESOURCE ANALYSIS

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

PROJECT No. : 1-41-58
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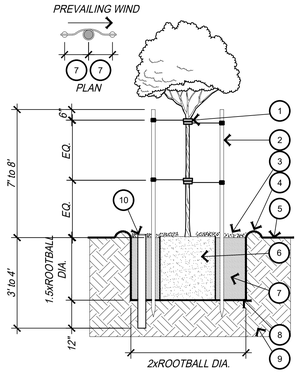
CHILDREN & FAMILY SERVICES
WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
4850 PEDLEY ROAD, JURUPA VALLEY, CA 92509
JURUPA UNIFIED SCHOOL DISTRICT

PLANTING PLAN

L2.1

1-41-58



Detail Legend

1. TREE SUPPORT, BLACK CORDED RUBBER HOSE, SECURE TO THE POLE WITH GALV. NAIL AND CONNECTED WITH 12" GAUGE GALV. WIRE TO POST.
2. PLUMB LODGEPOLE TREE STAKE, 2"x10'-0". STAKE SHALL NOT PIERCE ROOTBALL AND SHALL EXTEND INTO UNDISTURBED SOIL.
3. KEEP 3" THICK LAYER OF ORGANIC MULCH 6" CLEAR OF TREE TRUNK AND 8' DIAMETER MULCH FOR NEW TREES.
4. FLOOD 3" DEEP WATER BASIN TO PLUMB TREE TRUNK & SET GRADE OF ROOTBALL
5. FINISH GRADE
6. ROOTBALL, INSTALL 2" ABOVE GRADE.
7. AMMENDED BACKFILL MIX PER SPEC
8. SCARIFY PLANTING PIT EDGE
9. SITE SOIL, UNDISTURBED
10. FILL 3" PERF. PIPE W/ 3/4" CRUSHED ROCK CAP w/ ATRIUM GRATE, FOR 24" BOX & LARGER, UNLESS INDICATED OTHERWISE BY OWNER'S (OR CITY'S) REPRESENTATIVE

NOTE: MIN. (4) FLEXIBLE TIES [TOP & BOTTOM] REQUIRED. HOLD TREE IN UPRIGHT POSITION. TREE TIES TO BE HIGH IN THE CANOPY FOR WIND PROTECTION.

A Tree Planting Detail (24" & 36" Box)
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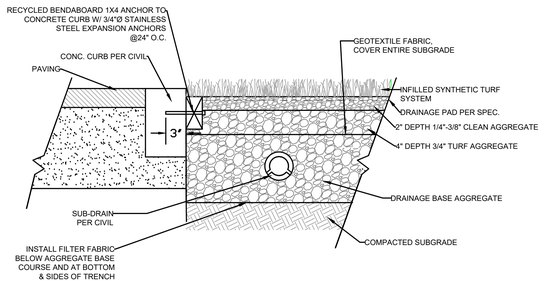
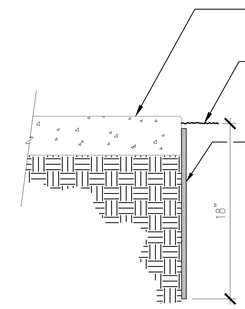


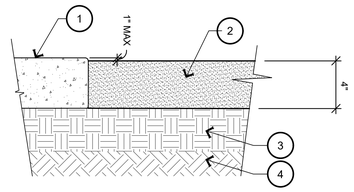
B Artificial Turf
N.T.S.



SECTION

NOTE:
ROOT BARRIERS TO BE CONTINUOUS AT ALL EDGES OF TREE WELLS. INSTALL ROOT BARRIER AT WALKS AND CURBS WHERE TREES ARE LOCATED WITHIN 4'-0" OF PAVING, FOR A DISTANCE OF 8'-0" MIN. EACH SIDE OF CENTERLINE TREE.

C Root Barrier
N.T.S.



Detail Legend

1. CONCRETE PAVING OR HEADER PER PLAN.
2. STABILIZED DECOMPOSED GRANITE. PLACE DECOMPOSED GRANITE 1" BELOW ADJACENT HEADER, WALKWAYS, ETC. DG SHALL BE PLACED TO A MIN. DEPTH OF 4"
3. COMPACTED SUBGRADE PER CIVIL.
4. SITE SOIL

D Concrete/ Decomposed Granite Detail
N.T.S.

STAMPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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CONSULTANT BRANDING

CORNERSTONE STUDIOS, INC.
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714.973.2200 Voice
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LANDSCAPE ARCHITECTURE URBAN DESIGN PLANNING RESOURCE ANALYSIS

RUHNAU CLARKE ARCHITECTS

PROJECT No. : 1-41-58
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SECTION 32 90 00
PLANTING

PART 1 - GENERAL

1.01 SUMMARY

A. PROVIDE LABOR, MATERIAL, EQUIPMENT, AND APPLIANCES NECESSARY TO PROVIDE TREES, PLANTS, AND GROUND COVER AS INDICATED ON DRAWINGS, SPECIFIED, AND AS REQUIRED FOR A COMPLETE INSTALLATION.

B. RELATED REQUIREMENTS:

1. DIVISION 01 - GENERAL REQUIREMENTS.
2. SECTION 01 4524 - ENVIRONMENTAL IMPORT/EXPORT MATERIAL TESTING.
3. SECTION 31 2200 - GRADING.
4. SECTION 32 1313 - SITE CONCRETE WORK.
5. SECTION 32 8413 - POTABLE WATER IRRIGATION.

1.02 SUBMITTALS

A. COMPLY WITH PROVISIONS OF SECTION 01 3300.

B. SUBMIT COMPLETE LISTS OF LANDSCAPE MATERIALS AND EQUIPMENT TO BE USED, INCLUDING MANUFACTURERS NAME AND ADDRESS, SPECIFIC TRADE NAMES, CATALOG NUMBERS COMPLETE WITH ILLUSTRATIONS AND DESCRIPTIVE LITERATURE AND CLEARLY MARK OR UNDERLINE PROPOSED ITEMS; LIST SOURCES OF LANDSCAPE TOPSOIL.

C. SHOP DRAWINGS: REQUIRED FOR ANY LANDSCAPE STRUCTURE.

D. MATERIAL LIST: PLANT MATERIALS LIST.

E. CERTIFICATION: IN ADDITION TO OTHER REQUIRED CERTIFICATION, FURNISH A CERTIFICATE WITH EACH DELIVERY OF BULK MATERIAL, INCLUDING TOPSOIL, PLANTER MIX SOIL, BARK MULCH, STATING ITS SOURCE, QUANTITY, TYPE OF MATERIAL FURNISHED AND THAT SUCH ITEM OR MATERIAL CONFORMS TO REQUIREMENTS OF THIS SECTION.

F. SAMPLE: SUBMIT TOPSOIL SAMPLE AND SOIL AMENDMENTS WITH ANALYSIS.

G. FERTILIZER ANALYSIS: PROVIDE LABELS OF EACH FERTILIZER USED AND QUANTITIES USED AT EACH APPLICATIONS RECOMMENDED IN SOIL ANALYSIS REPORT.

H. SOIL TEST: AFTER COMPLETING SOIL ROUGH GRADING, HAVE SOIL TESTED FOR FERTILITY AND AGRICULTURAL SUITABILITY. SOIL SHALL BE TESTED FROM MINIMUM OF (3-4) LOCATIONS PER ACRE OF PLANTED AREA. RECORD LOCATIONS WHERE SAMPLES WERE TAKEN. A COPY OF SOIL TEST RESULTS SHALL BE SUBMITTED TO DISTRICT AND ARCHITECT BEFORE LANDSCAPE WORK BEGINS. PAY COST OF SOIL TEST.

1.03 QUALITY ASSURANCE

A. WORKERS: FURNISH SKILLED WORKERS THOROUGHLY TRAINED AND EXPERIENCED IN REQUIRED CRAFTS AND FAMILIAR WITH SPECIFIED REQUIREMENTS FOR PROPER PERFORMANCE OF WORK OF THIS SECTION.

B. CODES AND REGULATIONS: MATERIALS, FABRICATION, AND INSTALLATION IN THIS SECTION SHALL COMPLY WITH APPLICABLE STATE CODES AND REGULATIONS. DELIVER PERMITS AND TESTING CERTIFICATIONS TO PROJECT INSPECTOR.

C. QUALITY AND SIZE: COMPLY WITH CURRENT EDITION OF "HORTICULTURAL STANDARDS" FOR NUMBER ONE NURSERY STOCK AS ADOPTED BY "AMERICAN ASSOCIATION OF NURSERYMEN".

D. PLANTS:

1. TRUE TO NAME, WITH NAME OF PLANTS IN ACCORDANCE WITH STANDARDS OF PRACTICE OF "AMERICAN ASSOCIATION OF NURSERYMEN."
2. BOTANICAL NAMES TAKE PRECEDENCE OVER COMMON NAMES.

1.04 GENERAL REQUIREMENTS

A. PROJECT INSPECTOR WILL VERIFY THAT IRRIGATION SYSTEMS ARE OPERATING BEFORE STARTING WORK OF THIS SECTION.

B. INSPECTION: NOTIFY ARCHITECT AT LEAST 72 HOURS IN ADVANCE TO SCHEDULE FOLLOWING INSPECTIONS:

1. PLANT MATERIAL AT TIME OF DELIVERY TO PROJECT SITE.
2. FINAL LOCATION OF PLANTS PRIOR TO PREPARATION OF PLANTING PITS.
3. TREES OF 24-INCH BOX SIZE AND LARGER AT THEIR SOURCE BEFORE DELIVERY TO PROJECT SITE.
4. FINISH GRADES PRIOR TO SODDING OR SEEDING AREAS.
5. LANDSCAPE CONSTRUCTION ITEMS PRIOR TO START OF MAINTENANCE OF PLANT ESTABLISHMENT PERIOD.
6. FINAL INSPECTION.

C. EXISTING UTILITIES AND PLANT MATERIALS:

1. PROTECT UTILITIES AND PLANT MATERIALS FROM DAMAGE.
   a. PERFORM MODIFICATIONS ONLY AS PERMITTED BY ARCHITECT, IN ACCORDANCE WITH APPLICABLE PROVISIONS NOTED OR SPECIFIED ON DRAWINGS, OR IN OTHER SECTIONS OF THESE SPECIFICATIONS.
2. REPLACE DAMAGED PLANT MATERIAL WITH LIKE TYPE AND SIZE MATERIAL. ARCHITECT SHALL DETERMINE COST OF IRREPLACEABLE PLANT MATERIAL ACCORDING TO "SQUARE INCH" METHOD AS DESCRIBED BY COUNCIL OF TREE AND LANDSCAPE APPRAISERS' "MANUAL FOR PLANT APPRAISERS" HANDBOOK, CURRENT EDITION, AND "GUIDE FOR ESTABLISHING VALUES OF TREES AND OTHER PLANTS".

D. VERIFICATION OF DIMENSIONS AND QUANTITIES:

1. VERIFY SCALED DIMENSIONS AND QUANTITIES BEFORE STARTING LANDSCAPING WORK.
2. PROMPTLY NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS OR ACTUAL PROJECT SITE CONDITIONS.

E. TREE TAGGING: ARCHITECT WILL TAG 24-INCH BOX AND LARGER TREES AT NURSERY. REQUEST TREE TAGGING FROM ARCHITECT BY PROVIDING 3 DAYS ADVANCE NOTICE.

F. PEST MANAGEMENT METHOD AND PRODUCTS:

1. CONTRACTOR SHALL ENSURE THAT PLANTS PROVIDED ARE CLEAN, HEALTHY, FREE OF PHYSICAL DAMAGE, AND SHOW NO SYMPTOMS OF ABIOTIC INJURY. PLANTS MUST ALSO BE FREE OF DISEASES, ARTHROPOD PESTS, AND ANY OTHER TYPE OF PLANT PESTS. BEFORE APPLYING PESTICIDES TO PLANTS ON DISTRICT PROPERTY, THE FOLLOWING CRITERIA MUST BE MET:
   A INDIVIDUALS WHO APPLY PESTICIDES ON BEHALF OF CONTRACTOR'S COMPANY MUST HAVE A QUALIFIED APPLICATOR LICENSE IN APPROPRIATE CATEGORY OF PEST CONTROL ISSUED BY CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION AND REGISTERED TO CONDUCT PEST CONTROL FOR HIRE AS A BUSINESS BY LOS ANGELES COUNTY AGRICULTURAL COMMISSIONER'S OFFICE.
   b. PRODUCTS USED MUST BE LISTED ON LAUSD'S OEHS APPROVED PRODUCT LIST.
   c. LENGTH OF TIME FROM DATE OF USE OF A PESTICIDE PRODUCTS UNTIL BENEFICIAL OCCUPANCY BY OWNER MAY NOT BE LESS THAN FIVE HALF LIVES OF PRODUCTS USED.
   d. CONTACT DISTRICT'S PEST MANAGEMENT DEPARTMENT AT (213) 743-1102 PRIOR TO ANY PESTICIDE APPLICATION TO VERIFY ITEMS ABOVE.
   e. COMPLETE WRITTEN RECORDS OF PESTICIDE APPLICATIONS MADE BY A CONTRACTOR AND OR THEIR REPRESENTATIVE ON DISTRICT PROPERTY, MUST BE PROVIDED TO DISTRICT'S PEST MANAGEMENT DEPARTMENT WITHIN 10 DAYS OF APPLICATIONS.

1.05 DELIVERY, STORAGE AND HANDLING

A. PLANTS SHALL BE PROTECTED IN TRANSIT AND AFTER DELIVERY TO PROJECT SITE. PLANTS IN BROKEN CONTAINERS AND PLANTS WITH BROKEN BRANCHES OR INJURED TRUNKS WILL BE DEEMED DEFECTIVE WORK.

B. PLANT MATERIALS DAMAGED IN PLANTING OPERATIONS SHALL BE REPLACED.

1.06 WARRANTY

A. SHRUBS AND GROUNDCOVER SHALL BE GROWTH AND HEALTH GUARANTEED BY INSTALLER FOR A PERIOD OF 90 DAYS AFTER COMPLETION OF MAINTENANCE PERIOD. TREES SHALL BE INSTALLER GUARANTEED TO LIVE AND GROW IN UPRIGHT POSITION FOR A PERIOD OF ONE YEAR AFTER COMPLETION OF MAINTENANCE PERIOD.

B. WITHIN 15 DAYS AFTER NOTIFICATION BY OWNER, REMOVE AND REPLACE FAILED PLANTINGS. REPLACEMENT PLANTINGS SHALL BE GUARANTEED AS SPECIFIED FOR ORIGINAL PLANTINGS.

PART 2 - PRODUCTS

2.01 MATERIALS

A. TOPSOIL: DESIGNATED AS IMPORTED TOPSOIL AS SPECIFIED HEREIN. SOIL TEST WILL DETERMINE SUITABILITY OF TOPSOIL BEFORE INSTALLATION. TRANSPORT TOPSOIL FROM SOURCE TO ITS FINAL POSITION UNLESS STOCKPILING IS SPECIFIED. TEST IN COMPLIANCE WITH SECTION 01 4524.

1. IMPORTED SOIL:
   a. SHALL BE FROM A SOURCE OUTSIDE PROJECT SITE AND IN COMPLIANCE WITH THIS SECTION.
   b. ARCHITECT MAY MAKE SUCH INSPECTIONS AND PERFORM SUCH TESTS AS DEEMED NECESSARY TO DETERMINE MATERIAL MEETS ALL REQUIREMENTS.
   c. AT LEAST 30 DAYS BEFORE SCHEDULED INSTALLATION, SUBMIT PROPOSED SOURCE OF TOPSOIL AND A SAMPLE TO ARCHITECT. SUBMIT A WRITTEN REQUEST FOR REVIEW, ACCOMPANIED BY A WRITTEN REPORT STATING THAT PROPOSED SOURCE COMPLIES WITH THESE SPECIFICATIONS BY A TESTING LABORATORY REGISTERED BY STATE OF CALIFORNIA FOR AGRICULTURAL SOIL EVALUATION.
   d. COMPLY WITH RECOMMENDATIONS OF SOILS TESTING LABORATORY AND PROVIDE ANY SOIL AMENDMENTS NECESSARY TO ACHIEVE PROPER NUTRIENT LEVELS TO SUPPORT HEALTHY PLANT GROWTH.
   e. IMPORTED TOPSOIL SHALL BE OF A UNIFORM COMPOSITION AND STRUCTURE, FERTILE AND FRIABLE SANDY LOAM SOIL, AND BE FREE OF ROOTS, DECAY, SUBSOIL, CLODS AND STONES LARGER THAN ¼ INCH IN GREATEST DIMENSION, POCKETS OF COARSE SAND, NOXIOUS WEEDS, STICKS, BRUSH AND OTHER LITTER AND NOT BE INFESTED WITH NEMATODES OR OTHER UNDESIRABLE INSECTS AND PLANT DISEASE ORGANISMS. IMPORTED TOPSOIL SHALL MEET FOLLOWING ADDITIONAL REQUIREMENTS:
      1) GRADATION LIMITS: SAND - 50 TO 80 PERCENT, CLAY - 20 PERCENT MAXIMUM, AND SILT - 30 PERCENT MAXIMUM. SAND, CLAY AND SILT GRADATION LIMITS SHALL BE AS DEFINED IN ASTM D422.
      2) AGRICULTURAL SUITABILITY AND FERTILITY: TOPSOIL SHALL BE FERTILE AND FRIABLE GARDEN SOIL SUITABLE FOR SUSTAINING AND PROMOTING GROWTH OF SPECIFIED PLANTS.
      3) ELECTRICAL CONDUCTIVITY LESS THAN 2.0 MILLIOHMS/CENTIMETER OR DS/M.
      4) BORON CONTENT MAXIMUM OF 1.0 PART PER MILLION.

B. FERTILIZERS AND CONDITIONING MATERIALS: COMPLY WITH APPLICABLE REQUIREMENTS OF STATE OF CALIFORNIA AGRICULTURAL CODE:

1 GENERAL:
   a. FERTILIZING MATERIALS SHALL BE PACKAGED, FIRST GRADE, COMMERCIAL QUALITY PRODUCTS IDENTIFIED AS TO SOURCE, TYPE OF MATERIAL, WEIGHT AND MANUFACTURER'S GUARANTEED ANALYSIS.
   b. FERTILIZING MATERIAL SHALL NOT CONTAIN TOXIC INGREDIENTS AND FILLERS IN QUANTITIES HARMFUL TO ANIMAL, HUMAN OR PLANT LIFE.
   c. SUBMIT A CERTIFICATE OF COMPLIANCE STATING MATERIAL SUBSTANTIALLY MEETS SPECIFICATIONS IN ACCORDANCE WITH PROVISIONS OF ARTICLE 1.03B.
2. MATERIALS:
   a. BONE MEAL: COMMERCIAL RAW BONE MEAN SHALL BE FINELY GROUND, STEAMED DRY MATERIAL WITH A MINIMUM ANALYSIS OF 2.5 PERCENT NITROGEN AND 22 PERCENT PHOSPHORIC ACID.
   b. GYPSUM: HYDRATED CALCIUM SULFATE PRODUCE CONTAINING 23 PERCENT CALCIUM AND 18 PERCENT SULFUR WITH A GUARANTEE ANALYSIS OF 84 PERCENT CALCIUM SULFATE.
   c. SOIL SULFUR: GUARANTEE ANALYSIS OF 99 PERCENT SULFUR.
   d. SUPERPHOSPHATES: FIRST GRADE FINELY GROUND PHOSPHATE ROCK USED FOR AGRICULTURAL PURPOSE, CONTAINING MINIMUM 18 PERCENT PHOSPHORIC ACID BY VOLUME.
   e. COMMERCIAL FERTILIZER: PELLETS OR GRANULAR PRODUCT HAVING A CHEMICAL ANALYSIS OF 14-14-14, WITH A MINIMUM OF 68 PERCENT OF NITROGEN FROM SLOW RELEASE NITROGEN UNLESS OTHERWISE SPECIFIED IN SOIL ANALYSIS REPORT: IT SHOULD BE A FREE FLOWING MATERIAL DELIVERED IN UNOPENED BAGS, DO NOT INSTALL MATERIAL WHICH BECOMES CAKED OR OTHERWISE DAMAGED.
   f. NITROGEN FORTIFIED WOOD PRODUCT: DERIVED FROM REDWOOD, FIR OR CEDAR SAWDUST OR FROM BARK OF FIR OR PINE TREATED WITH A NON-TOXIC AGENT TO QUICKLY ABSORB WATER AND COMPLY WITH FOLLOWING REQUIREMENTS:
      1). GRADATION:
      SIEVE SIZEPERCENT PASSING¼-INCH95 PERCENT MINIMUM#880 PERCENT MINIMUM#3530 PERCENT MINIMUMNITROGEN CONTENT:
      NITROGEN CONTENT PERCENT DRY WEIGHTREDWOODO.4 TO 0.6 PERCENTFIR0.56 TO 0.84 PERCENT CEDAR0.56 TO 0.84 PERCENTFIR BARK0.8 TO 1.2 PERCENTPINE BARK0.8 TO 1.2 PERCENT3) SALINITY: MAXIMUM SATURATION EXTRACT CONDUCTIVITY 2.5 MILLIOHMS/CENTIMETER AT 25 DEGREES CELSIUS.
      4) ABSORPTION: WHEN ONE TEASPOON OF WATER IS APPLIED TO 4 CUBIC INCHES OF AIR-DRIED PRODUCTS, MATERIAL SHALL BE BECOME COMPLETELY DAMP IN A PERIOD OF LESS THAN 2 MINUTES. KELLOGG KRA, SEQUOIA REDWOOD/CEDAR BLEND OR WHITE FIR, LONG BEACH SOIL PREPARATION, BANDINI #101 REDWOOD SOIL BUILDER OF NITROGENIZED WOOD AMENDMENT.
   g. ORGANIC FERTILIZER: TREATED, RELATIVELY DRY FRIABLE ORGANIC COMPOST DERIVED FROM SEWAGE SLUDGE PROCESSED FOR AGRICULTURAL USE; CONTAINING AT LEAST 1 PERCENT NITROGEN BY DRY WEIGHT, 2 PERCENT PHOSPHORIC ACID AND COMPLY SUBSTANTIALLY WITH GRADATION NOTED IN SUB-SECTION 2.1, B6. MILORGANIC, KC, KELLOGG'S NITROHUMUS, OR EQUAL.
   h. FERTILIZER TABLETS SHALL BE TIGHTLY COMPRESSED, LONG LASTING, SLOW RELEASE TABLETS DERIVED FROM UREA, METHYLENE UREAS, CALCIUM PHOSPHATE, POTASSIUM SULFATE, CALCIUM SULFATE, MAGNESIUM OXIDE, SODIUM BORATE, COPPER SULFATE, IRON SULFATE, MANGANESE SULFATE, AND ZINC OXIDE. N-P-K SHALL BE 20-10-5. TABLET SIZE SHALL BE 21 GRAMS. RATE AND APPLICATION SHALL BE PER THESE SPECIFICATIONS AND CONTRACT DRAWINGS.

C. PREPARED BACKFILL MIX:

1. TO BE BASED UPON RECOMMENDATIONS FROM SOILS TEST PERFORMED BY A CERTIFIED LABORATORY.
2. MIX (FOR BIDDING PURPOSES):
   a. SEVENTY PERCENT BY VOLUME CLEAN EXCAVATED TOPSOIL/IMPORT SOIL.
   b. THIRTY PERCENT BY VOLUME NITROGEN STABILIZER WOOD RESIDUAL.
   c. ONE POUND PER CUBIC YARD GYPSUM.
   d. TWO POUNDS FERTILIZER PER CUBIC YARD (14-14-14 WITH A MINIMUM 68 PERCENT OF NITROGEN FROM SLOW RELEASE NITROGEN. ADDITIONAL SECONDARY AND MICRONUTRIENTS PREFERRED).
3. MIX (ACID PLANTS)
   a. THIRTY PERCENT BY VOLUME CLEAN EXCAVATED SOIL/IMPORTED SOIL.
   b. SEVENTY PERCENT BY VOLUME NITROGEN STABILIZED WOOD RESIDUAL.
   c. TWO POUNDS .PER CUBIC YARD. SOIL SULFUR.
   d. TWO POUNDS. FERTILIZER PER CUBIC YARD (14-14-14 WITH A MINIMUM 68 PERCENT OF NITROGEN FROM SLOW RELEASE NITROGEN. ADDITIONAL SECONDARY AND MICRONUTRIENTS PREFERRED).

D. PLANTS (GENERAL): PLANT NAMES INDICATED OR LISTED ON DRAWINGS SHALL CONFORM WITH SUNSET, WESTERN GARDEN BOOK, LATEST EDITION.

1. TYPE AND SIZE: PLANT MATERIALS SHALL BE LISTED ON DRAWINGS.

2. PLANTS SHALL BE TRUE NAME, AND ONE OF EACH BUNDLE OR LOT SHALL BE TAGGED WITH BOTANICAL/COMMON NAME AND SIZE OF EACH PLANT IN ACCORDANCE WITH STANDARDS OF PRACTICE RECOMMENDED BY AMERICAN ASSOCIATION OF NURSERYMAN

3. TAG ONE PLANT OF EACH VARIETY FOR IDENTIFYING PURPOSES.

4. PLANTINGS SHALL BE INSPECTED BEFORE INSTALLATION.

5. SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE, SUBSTITUTION MAY BE REQUESTED IN ACCORDANCE WITH GENERAL CONDITIONS.

6. PLANTS SHALL HAVE A GROWTH HABIT NORMAL TO SPECIES IN ACCORDANCE WITH USA STANDARDS FOR NURSERY STOCK, LATEST EDITIONS; SHALL BE SOUND, HEALTHY, VIGOROUS, AND FREE FROM INSECT PESTS, PLANT DISEASE, SUN SCALDS, FRESH BARK ABRASIONS, EXCESSIVE ABRASIONS OR OTHER OBJECTIONABLE DISFIGUREMENTS. TREE TRUNKS SHALL HAVE NORMAL WELL DEVELOPED BRANCH SYSTEMS AND VIGOROUS AND FIBROUS ROOT SYSTEMS, NOT ROOT BOUND AND SHALL BE FREE OF KINKED OR GIRDING ROOTS.

7. NO PRUNING SHALL BE PERFORMED BEFORE INSPECTION AT NURSERY BY ARCHITECT. (OTHER THAN NORMAL PRUNING DURING GROWTH PERIOD).

8. PLANTINGS SPECIFIED FOR ADVERSE CONDITIONS SHALL BE PROJECT SITE ACCLIMATED BEFORE PLANTING. PURCHASE FROM LOCAL NURSERIES OR STORE ON SITE FOR A PERIOD OF 10 WEEKS FOR AUTUMN PLANTING AND SIX WEEKS FOR SPRING PLANTING.

E. PLANT MATERIAL:

1. TREES: TREES SHALL CONFORM TO TYPE AND SIZE NOTED ON DRAWINGS. MEASURE HEIGHT FROM ROOT CROWN TO LAST DIVISION OF TERMINAL LEADER AND MEASURE DIAMETER 1 FT. ABOVE ROOT CROWN. MEASURE HEIGHT OF PALM TREES FROM GROUND LINE TO BASE OF GROWING BUD. PALMS SHALL STAND REASONABLY ERECT WITHOUT SUPPORT.

F. GENERAL MATERIALS:

1. PIPE: GALVANIZED STEEL, STANDARD WEIGHT (SCHEDULE 40) COMPLYING WITH ASTM A120.
2. NAILS, FASTENERS, ETC.: GALVANIZED AND COMMERCIAL QUALITY MATERIALS.
3. FABRICATED METAL ITEMS: STEEL CONFORMING TO ASTM A36.
4. CONCRETE ITEMS: STANDARD 2000 PSI CONCRETE.

I. CONCRETE HEADERS: 6-INCH BY 8-INCH SIZE, COMPLETE WITH PRE-MOLDED EXPANSION JOINT MATERIAL 10 FT. APART OR AS INDICATED ON DRAWINGS.

J. COMPOSITE HEADERS: HEADERS AND STAKES SHALL BE COMPOSITE MATERIAL SIZES AS INDICATED ON DRAWINGS. SCREWS SHALL BE PLATED DECK SCREWS. STAKES SHALL BE 1 INCH BY 2-INCH BY 12-INCH IN LENGTH AND HEADERS SHALL BE FURNISHED IN 2-INCH BY 4-INCH BY 20-FOOT IN LENGTH AND SHALL BE OF UNIFORM WIDTH AND THICKNESS.

K. TREE STAKESSTAKES SHALL BE USED PER PLAN.

L. TREE TIES:

1. WIRE TYPE: NO. 10 GAGE BMG GALVANIZED SOFT STEEL WIRE COVERED WITH GARDEN HOSE.
2. CINCH TIE: FLEXIBLE VINYL WITH ADJUSTABLE INTERLOCKING CAPABILITY.

M. TREE-ROOT CONTROL BARRIER: SHALL BE FABRICATED FROM A HIGH DENSITY AND HIGH IMPACT PLASTIC SUCH AS POLYVINYL CHLORIDE, ABS OR POLYETHYLENE, AND HAVE A MINIMUM THICKNESS OF 0.06 INCH. PLASTIC SHALL BE FURNISHED WITH ½ INCH TO ¾ INCH HIGH RAISED VERTICAL RIBS ON INNER SURFACE SPACED AT LEAST 6 INCHES BUT NOT MORE THAN 8 INCHES APART. INSTALL A PLASTIC ROOT CONTROL BARRIER WITH EACH NEW TREE PLANTED WITHIN A TREE WELL. DEEP ROOT CORP., OR EQUAL.

N. PEST MANAGEMENT METHODS AND PRODUCTS: REFER TO PARAGRAPH 1.04.F FOR DETAILS PERTAINING TO CONTRACTOR APPLYING PESTICIDES.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT DETRIMENTAL CONDITIONS BEFORE COMMENCING WORK OF THIS SECTION.

3.02 GRADING AND SOIL PREPARATION

A. INITIAL ROUGH GRADING: SPECIFIED IN DIVISION 32.

B. EARTHWORK AND TOPSOIL PLACEMENT: SHALL INCLUDE EXCAVATION AND BACKFILLING FOR IRRIGATION SYSTEM AND PREPARATION FOR SPREADING, DENSIFICATION, CULTIVATION, AND RAKING OF TOPSOIL, INCLUDING FERTILIZATION AND CONDITIONING.

C. PRELIMINARY GRADING: SCARIFY EXISTING SOIL TO A DEPTH OF 6 INCHES BEFORE BACKFILLING WITH TOPSOIL. DURING PRELIMINARY GRADING OPERATION, REMOVE STONES OVER ¾ INCH.

D. IN PREVIOUSLY PAVED AREAS: REMOVE TOP 6 INCHES OF EXISTING SOIL AND LEGALLY DISPOSE OF OFF PROJECT SITE. REPLACE WITH APPROVED IMPORTED TOPSOIL TO INDICATED FINISH GRADE.

E. TOPSOIL PREPARATION AND CONDITIONING:

1. TYPE AND THICKNESS: TOPSOIL SHALL HAVE A MINIMUM DEPTH OF 6 INCHES ABOVE SUBGRADE OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER.

2. BEFORE INSTALLING TOPSOIL, SUBGRADE SHALL BE CLEARED OF WEEDS, ROCK ¾ INCH AND LARGER AND OTHER EXTRANEOUS MATERIALS FROM DESIGNATED PLANTING AREAS TO A DEPTH OF 6 INCHES. THE TOOLS ACCEPTABLE FOR THIS CLEANING PROCESS ARE A ROCK PICKER BY HARLEY ENTERPRISE, TRACK SCREENER BY CHERRINGTON, SCREEN USA INC. OR OTHER TOOLS OR MACHINES DESIGNED FOR THE PURPOSE. THE FINISHED PLANTING BED PREPARATION IS SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE. OAR SHALL COORDINATE WITH THE OWNER'S LANDSCAPE OFFICE FOR A SITE VISIT AND APPROVAL PRIOR TO PLANT/LAWN INSTALLATION.

3. DO NOT PROCESS TOPSOIL WHEN IT IS SO WET OR DRY AS TO CAUSE EXCESSIVE COMPACTION OR FORMING OF HARD CLODS OR DUST.

4. EXISTING SOIL CAN BE USED AS TOPSOIL ONLY IF IT MEETS THE REQUIREMENTS OF ARTICLE 2.01.A OF THIS SECTION.

F. FERTILIZING AND CONDITIONING: PROVIDE PLANTING AREAS TO FINISH GRADES, INCLUDING MOUNDS, BEFORE INSTALLATION OF SPECIFIED FERTILIZER OR SOIL CONDITIONING MATERIALS.

1. MECHANICALLY INSTALL FOLLOWING AMOUNT OF FERTILIZER OR SOIL CONDITIONING MATERIALS AT A UNIFORM RATE PER 1,000 SQUARE FEET OF PLANTING AREA:
   a. THREE CUBIC YARDS OF NITROGEN FORTIFIED WOOD COMPOST.
   b. TWO CUBIC YARDS OF ORGANIC FERTILIZER.
   c. ONE HUNDRED POUNDS. OF GYPSUM.
   d. THIRTY POUNDS OF COMMERCIAL FERTILIZER.

2. QUANTITIES OF REQUIRED MATERIALS FOR PLANTING AREAS SHALL BE AT PROJECT SITE. FURNISH PROJECT INSPECTOR WITH DELIVERY TICKETS BEFORE INSTALLATION TO VERIFY SOURCE, KIND, AND QUANTITIES DELIVERED.

3. AFTER INSTALLATION OF FERTILIZER AND SOIL CONDITIONING MATERIALS, UNIFORMLY CULTIVATE MATERIALS INTO UPPER 6 INCHES OF SOIL WITH SUITABLE EQUIPMENT OPERATED IN AT LEAST TWO DIRECTIONS AT APPROXIMATE AT RIGHT ANGLES. PROCESS SOIL UNTIL FRIABLE.

G. FINISH GRADING:

1. PROVIDE A FINISH GRADE, SMOOTH, UNIFORM, AND FREE OF ABRUPT GRADE CHANGES AND DEPRESSIONS TO INSURE PROPER SURFACE DRAINAGE.

2. FINISH GRADES ADJACENT TO PAVING CURBS OR HEADERS SHALL BE 1 INCH LOWER IN SOD AREAS AND 2 INCHES LOWER IN SHRUB OR GROUND COVER AREAS.

3. IRRIGATE SOIL AFTER INSTALLATION OF FERTILIZER AND SOIL CONDITIONING MATERIALS. ALLOW SOIL TO SETTLE. PROVIDE A STABLE SURFACE. AFTER SOIL HAS DRIED OUT TO A WORKABLE CONDITION, RE-GRADE, RAKE, AND SMOOTH TO REQUIRED GRADES AND CONTOURS. FINISHED SURFACES TO BE LEFT CLEAN AND SUITABLE FOR PLANTING.

4. AREAS TO BE PLANTED SHALL BE GRADED AND FLOATED TO PROVIDE COMPLETE SURFACE DRAINAGE; WATER HOLDING DEPRESSIONS AND POCKETS SHALL BE ELIMINATED. UNDULATIONS AND UNSIGHTLY VARIATIONS IN GRADE WHICH WILL NOT PERMIT THE USE OF NORMAL MOWING EQUIPMENT WITHOUT SCALPING OR MISSING SHALL BE REMOVED SO THAT PROPER USE OF MOWING EQUIPMENT CAN BE PERFORMED.

5. AREAS TO BE PLANTED SHALL ALSO BE FINISHED GRADED TO MEET ANY WALKS, PATHS OR OTHER ADJOINING SURFACES SO THAT, AFTER COMPACTION, NO WATER POCKETS OR RIDGES REMAIN.

6. AREAS WHERE SOD WILL INTERFACE WITH OTHER MODES OF PLANTING AT CATCH BASINS AND PAVED AREAS SHALL BE FINISH SHAPED SO AS TO COUNTER SINK THE SOD ONE INCH SUCH THAT ONCE SOD IS PLACED, IT SHALL BE AT GRADE WITH ADJACENT PLANTING BED.

H. CONTOUR MOUNDS: CONSTRUCT WITH IMPORTED TOPSOIL AND SPECIFIED SOIL AMENDMENTS. INSTALL AND SHAPE MOUNDS TO MINIMIZE SETTLEMENT OR EROSION AND TO PROVIDE ADEQUATE FOOTING FOR PLACEMENT OF BOULDERS. REFERENCED DIMENSIONS OF MOUND CONTOURS REFER TO HEIGHT ABOVE FINISH GRADE.

I. TRENCHING: AFTER COMPLETION OF SOIL CONDITIONING OR FINISH GRADING OPERATIONS, BACKFILL UPPER PORTION OF TRENCH SO SPECIFIED TOPSOIL THICKNESS IN TRENCH IS RESTORED.

J. WEEDING: ONCE SITE HAS BEEN CLEARED, GRUBBED AND ROUGH GRADED, LANDSCAPE AREAS SHALL BE MAINTAINED FREE OF VEGETATION GROWTH UNTIL START OF IRRIGATION AND PLANTING PHASE OF WORK.

3.03 HEADER INSTALLATION

A. INSTALL AT LOCATIONS AND GRADES SHOWN ON DRAWINGS, BEFORE PLANTING.

3.04 PLANTING

A. GENERAL: PLANTING MATERIALS SHALL BE INSPECTED BEFORE PLANTING, INCLUDING THOSE TAGGED AT NURSERY.

1. PERFORM PLANTING WITH MATERIAL, EQUIPMENT AND ACCORDING TO PROCEDURES FAVORABLE TO OPTIMUM GROWTH OF PLANT. DO NOT PLANT DURING WINDY CONDITIONS.
2. EXCEPT AS NOTED FOR SPECIMEN PLANTING IN SUB-SECTION 3.04D, COMMENCE PLANTING OPERATIONS IMMEDIATELY FOLLOWING COMPLETION OF IRRIGATION SYSTEM.

B. PROTECTION AND STORAGE:

1. MAINTAIN PLANTINGS DELIVERED TO PROJECT SITE IN A HEALTHY CONDITION.
2. DO NOT ALLOW PLANTINGS TO DRY OUT.
3. SEPARATE BARE ROOT STOCK AND "HEAL IN" IN MOIST EARTH OR OTHER SUITABLE MATERIAL.
4. COVER ROOT BALL OF BAILED OR BURLAP WRAPPED PLANTINGS WITH MOIST SAWDUST, WOOD CHIPS, OR OTHER PERMITTED MATERIALS.

C. LAYOUT AND PLANT LOCATIONS:

1. PLANT LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE.
2. PLANTS MAY BE RE-SPOTTED BEFORE PLANTING AS REQUIRED BY ARCHITECT.
3. PROVIDE A DETAILED LAYOUT OF PLANTS AND LANDSCAPE ELEMENTS IN PLANTING AREAS AND OBTAIN REVIEW OF ARCHITECT BEFORE ACTUAL PLANTING OPERATIONS.
4. LOCATE FIRST ROW OF PLANTINGS IN AREAS DESIGNATED FOR ON CENTER SPACING AT ONE-HALF THE DESIGNATED SPACING FROM EDGE OF AREA.

D. SPECIMEN PLANTING: PLANTINGS IN BOXES 24 INCHES OR LARGER SHALL BE INSTALLED BEFORE INSTALLATION OF LATERAL IRRIGATION LINES. RE-ROUTE IRRIGATION LINES IN CONFLICT WITH SPECIMEN LOCATIONS TO CLEAR ROOT BALL.

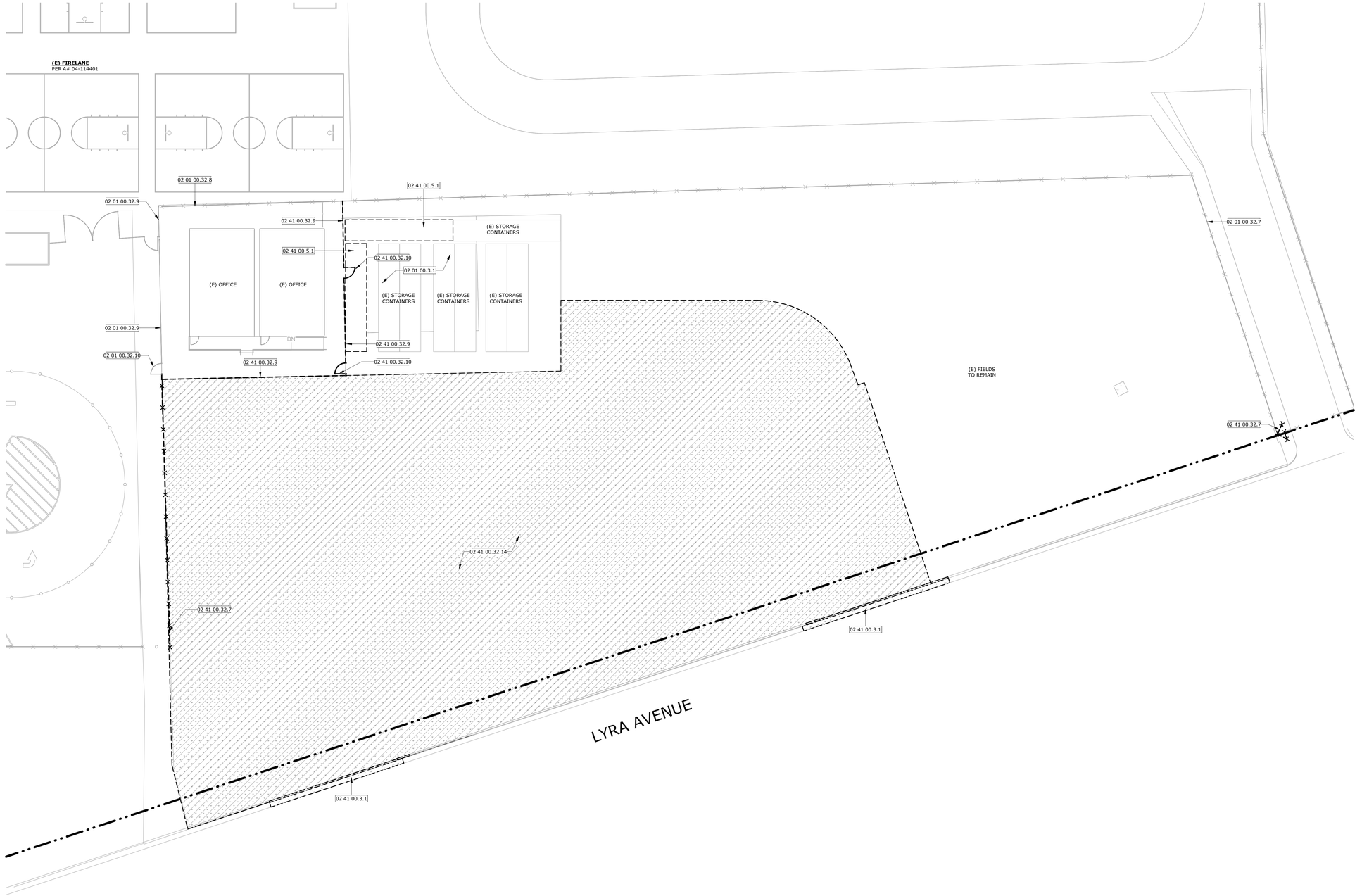
E. TREE AND SHRUB INSTALLATION:

1. EXCAVATE PLANTING HOLES APPROXIMATELY SQUARE WITH VERTICAL SIDES SHALL BE TWICE THE WIDTH OF PLANT CONTAINER OR ROOT BALL; LARGER IF NECESSARY TO PERMIT HANDLING AND INSTALLATION WITHOUT DAMAGE TO ROOT BALL SYSTEM. BOTTOM OF PLANT CONTAINER OR ROOT BALL SHALL BE PLACED ON EXISTING UNDISTURBED SOIL.
2. DO NOT INSTALL PLANTINGS HAVING A BROKEN OR CRACKED ROOT BALL.
3. CONTAINERS SHOULD BE OPENED AND REMOVED IN SUCH A MANNER NOT TO DAMAGE ROOT SYSTEM.
4. REMOVE BALLED PLANT WRAPPINGS AFTER PLANT IS POSITIONED IN HOLE.
5. SCARIFY NATIVE SOIL AT BOTTOM HALF OF HOLES TO A DEPTH OF 6 INCHES.
6. BACKFILL BOTTOM HALF OF HOLE WITH SPECIFIED BACKFILL MIX MINUS FERTILIZERS. SETTLE WITH WATER.
7. AFTER WATER SETTLING BOTTOM HALF OF HOLE, SET PLANTING APPROXIMATELY IN CENTER OF HOLE AND ADJUST ROOT FLUSH TO FINISH GRADE.
8. BACKFILL BALANCE OF HOLE WITH SPECIFIED BACKFILL MIX AND FERTILIZER AND WATER SETTLE.
9. PRUNE OR REMOVE ANY BROKEN OR DAMAGED LIMBS.
10. FORM A CIRCULAR WATERING BASIN SLIGHTLY LARGER THAN HOLE; 4-INCH HIGH FOR TREES AND 2-INCH HIGH FOR SHRUBS. SHAPE BOTTOM OF BASIN TO BE SLIGHTLY LOWER THAN FINISH GRADE.
11. RESTORE AREA AROUND PLANTINGS TO FINISH GRADE.
12. AFTER INSTALLATION, PLANTINGS SHALL BE PLUMB WITH ROOT CROWN AT ITS NATURAL DEPTH WITH RESPECT TO FINISH GRADE.
13. NEW TREES IN SOD AREAS TO BE INSTALLED WITH TREE TRUNK PROTECTOR.

F. BACKFILL PLANTING MIX: CONSISTS OF 70 PERCENT SPECIFIED TOPSOIL, AND 30 PERCENT NITROGEN FORTIFIED SAWDUST MULCH PLUS THE AMENDMENTS INDICATED IN SOIL ANALYSIS REPORT.

3.05 MAINTENANCE AND PLANT ESTABLISHMENT

A. REQUIRED: MAINTAIN AREAS ON A CONTINUOUS BASIS AS THEY ARE COMPLETED DURING PROGRESS OF WORK AND DURING ESTABLISHMENT PERIOD. MAINTENANCE SHALL INCLUD



GENERAL NOTES

1. ALL DEMOLITION SHALL COMPLY WITH CHAPTER 33 CBC AND ARTICLE 33 CFC

KEYNOTES

02 01 00.3.1	EXISTING CONCRETE PAVING TO REMAIN, PROTECT IN PLACE
02 01 00.32.7	EXISTING CHAINLINK FENCE TO REMAIN, PROTECT IN PLACE
02 01 00.32.8	EXISTING CHAINLINK GATE TO REMAIN, PROTECT IN PLACE
02 01 00.32.9	EXISTING ORNAMENTAL FENCE TO REMAIN, PROTECT IN PLACE
02 01 00.32.10	EXISTING ORNAMENTAL GATE TO REMAIN, PROTECT IN PLACE
02 41 00.3.1	DEMO EXISTING CONCRETE CURB PER CIVIL DRAWINGS
02 41 00.5.1	REMOVE AND REINSTALL (E) METAL STORAGE CONTAINER PER DSA IR A-27. COORDINATE LOCATION PER NEW SITE PLANS.
02 41 00.32.7	DEMO EXISTING CHAINLINK FENCE AND FOOTINGS
02 41 00.32.9	DEMO EXISTING ORNAMENTAL FENCE AND RETURN TO DISTRICT. DEMO ASSOCIATING FOOTINGS.
02 41 00.32.10	DEMO EXISTING ORNAMENTAL GATE AND RETURN TO DISTRICT. DEMO ASSOCIATING FOOTINGS.
02 41 00.32.14	DEMO EXISTING LANDSCAPE

LEGEND

EXISTING LANDSCAPE TO BE REMOVED AND SITE TO BE REGRADED PER CIVIL DRAWINGS

EXISTING BUILDING TO REMAIN, PROTECT IN PLACE

DEMOLISH EXISTING FENCE, FOOTING AND ASSOCIATED ELEMENTS

NORTH

ENLARGED SITE PLAN DEMO — SCALE: 1/16" = 1'-0" — 10

STAMPS

LICENSED ARCHITECT — ROGER CLARKE — No. C-41586 — Exp. 10-31-27 — STATE OF CALIFORNIA

AGENCY APPROVAL
File No.: ########/##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:18:24 PM

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CHECKED BY:

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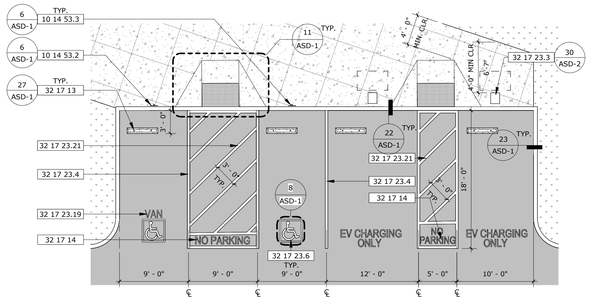
DELTA # _____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA # _____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

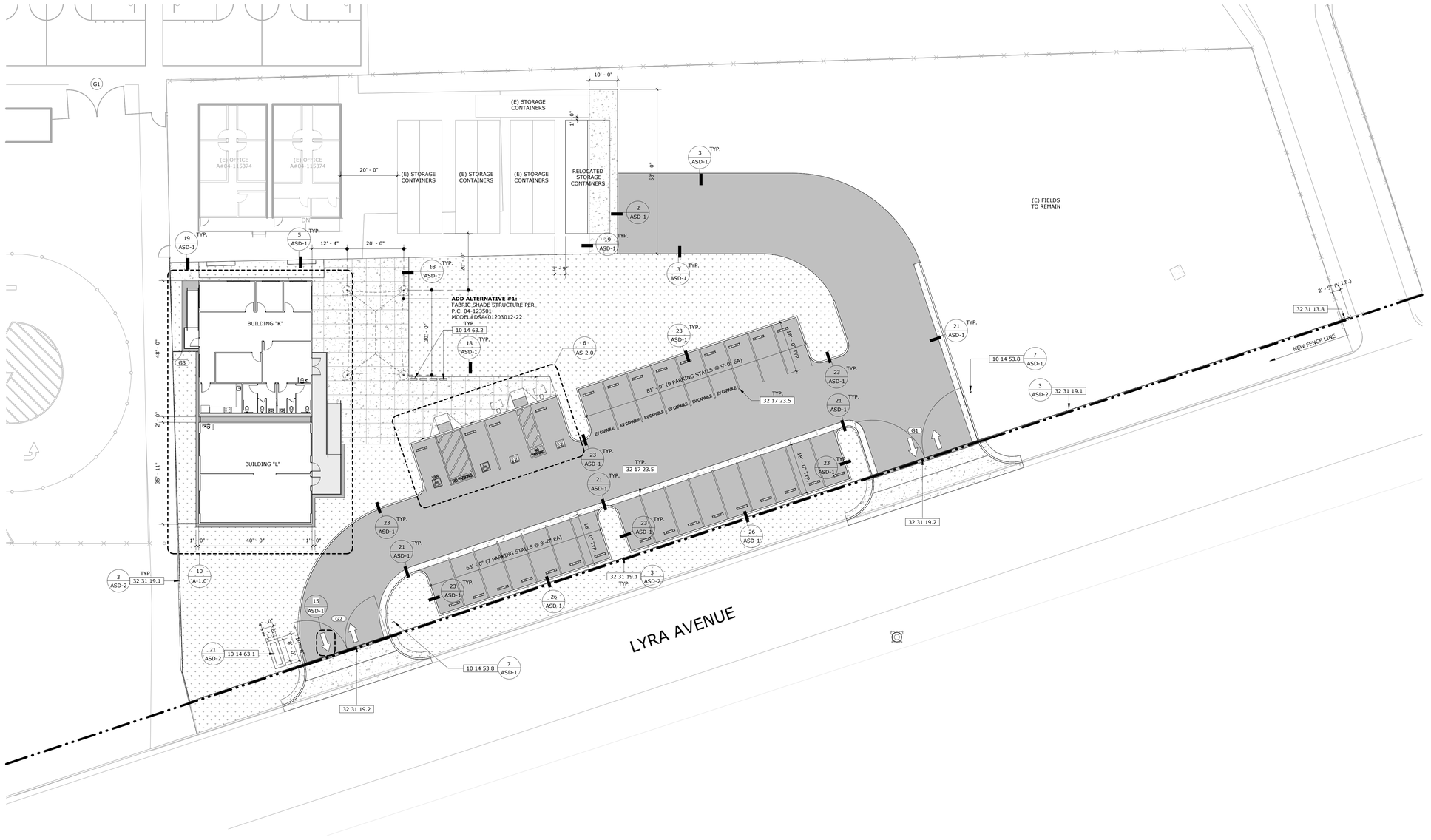
CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

DEMOLITION SITE PLAN — **AS-1.0**

1-41-58



ENLARGED SITE PLAN @ PARKING LOT | SCALE: 1/8" = 1'-0" | 6



ENLARGED SITE PLAN NEW | SCALE: 1/16" = 1'-0" | 10

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION

KEYNOTES

10 14 53.2	VAN ACCESSIBLE PARKING SIGNAGE
10 14 53.3	STANDARD ACCESSIBLE PARKING SIGNAGE
10 14 53.8	TOW- AWAY SIGNAGE
10 14 63.1	DOUBLE SIDED ELECTRONIC POLE MOUNTED MARQUEE SIGN PER ELECTRICAL DRAWINGS
10 14 63.2	HSS COLUMNS WITH SQUARE METAL PANEL SIGNAGE
32 17 13	CONCRETE WHEEL STOP
32 17 14	12" HIGH "NO PARKING", WHITE LETTERING
32 17 23.3	SINGLE PORT EV CHARGING STATION PER ELECTRICAL DRAWINGS
32 17 23.4	4" WIDE BLUE PAINTED BOUNDARY LINE, COLOR TO BE FEDERAL STANDARD 595C
32 17 23.5	4" WIDE PAINTED WHITE PAVEMENT MARKINGS
32 17 23.6	PAINTED ACCESSIBLE PARKING EMBLEM PER CBC FIG. 11B-703.7.2.1
32 17 23.19	12" HIGH "VAN", WHITE LETTERING
32 17 23.21	4" WIDE WHITE PAINTED ACCESS AISLE PAVEMENT STRIPING
32 31 13.8	INFILL CHAIN LINK PANEL BETWEEN TWO FENCE POSTS
32 31 19.1	8'-0" HIGH ORNAMENTAL FENCE
32 31 19.2	GATE PER GATE SCHEDULE

LEGEND

- LANDSCAPE PER LANDSCAPE DRAWINGS
- ASPHALT PAVING, SEE DETAIL 4 ASD-1 FOR ADDITIONAL INFORMATION, SEE CIVIL DRAWINGS
- CONCRETE PAVING, CONC-1, SEE DETAIL 16 ASD-1 / 17 ASD-1 FOR ADDITIONAL INFORMATION, SEE CIVIL DRAWINGS
- PORTABLE PC RAMP PER PC#04-119501. PROVIDE RAMP SKIRT PANELS AROUND PERIMETER OF RAMP LANDING.
- (E) CHAINLINK FENCE TO REMAIN, PROTECT IN PLACE
- ORNAMENTAL FENCE, HEIGHT PER PLAN, SEE DETAIL 3 ASD-2

STAMPS

AGENCY APPROVAL
File No: ########/##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:18:30 PM

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CHECKED BY:
DELTA # _____ DATE _____ ADD AFO CCD REV
DELTA # _____ DATE _____ ADD AFO CCD REV
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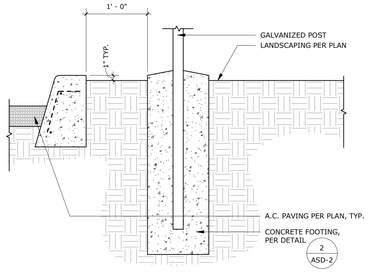
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

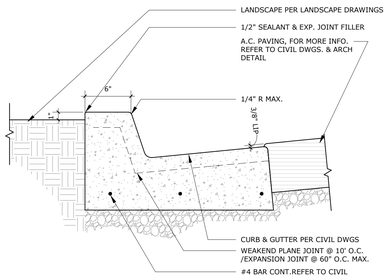
ENLARGED SITE PLAN | AS-2.0

1-41-58



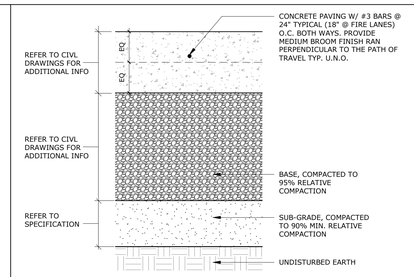
CONCRETE CURB @ ISLAND

SCALE: 1" = 1'-0" | 26



CURB & GUTTER DETAIL

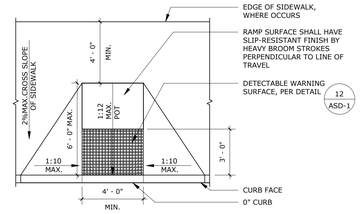
SCALE: 1 1/2" = 1'-0" | 21



NOTE:
FOR MORE INFO., REFER TO SPECIFICATIONS

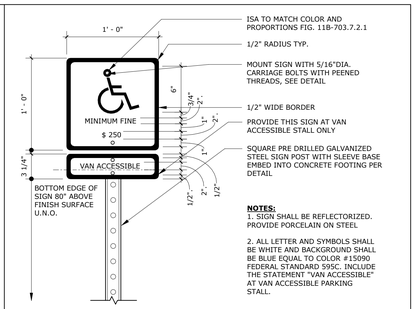
CONCRETE PAVING

SCALE: 12" = 1'-0" | 16



CONCRETE CURB RAMP

SCALE: 1/4" = 1'-0" | 11

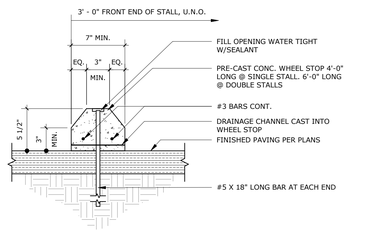


NOTES:
1. SIGN SHALL BE REFLECTORIZED. PROVIDE PORCELAIN ON STEEL

2. ALL LETTER AND SYMBOLS SHALL BE WHITE AND BACKGROUND SHALL BE BLUE EQUAL TO COLOR #15090 FEDERAL STANDARD 595C. INCLUDE THE STATEMENT "VAN ACCESSIBLE" AT VAN ACCESSIBLE PARKING STALL.

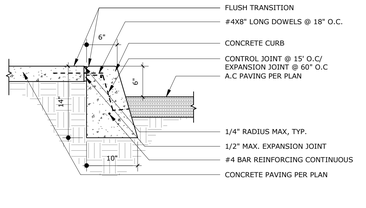
ACCESSIBLE PARKING SIGN

SCALE: 1 1/2" = 1'-0" | 6



CONCRETE PARKING BUMPER

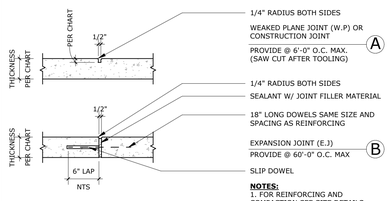
SCALE: 1 1/2" = 1'-0" | 27



CONCRETE CURB @ CONCRETE

SCALE: 1" = 1'-0" | 22

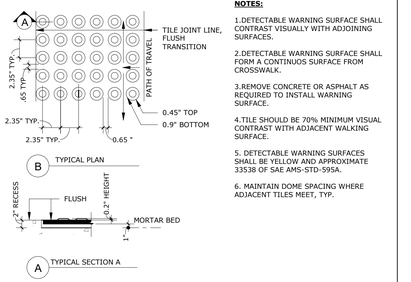
SAWCUT JOINT CHART	
CONC. THICKNESS	MIN. CUT DEPTH
4"	3/4"
6"	1-1/4"
8"	1-1/2"
9"	1-3/4"



NOTES:
1. FOR REINFORCING AND COMPACTION SEE SITE DETAILS.
2. SAWCUT JOINTS WITHIN 8 HOURS OF PLACEMENT

CONCRETE JOINTS

SCALE: 1" = 1'-0" | 17



NOTES:

1.DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.

2.DETECTABLE WARNING SURFACE SHALL FORM A CONTINUOS SURFACE FROM CROSSWALK.

3.REMOVE CONCRETE OR ASPHALT AS REQUIRED TO INSTALL WARNING SURFACE.

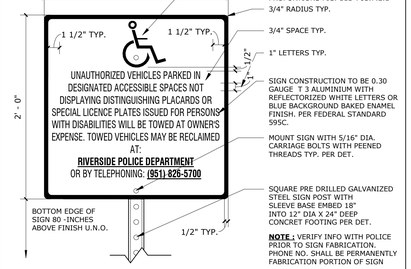
4.TILE SHOULD BE 70% MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACE.

5. DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE 33538 OF SAE AMS-STD-595A.

6. MAINTAIN DOME SPACING WHERE ADJACENT TILES MEET, TYP.

TACTILE WARNING SURFACE

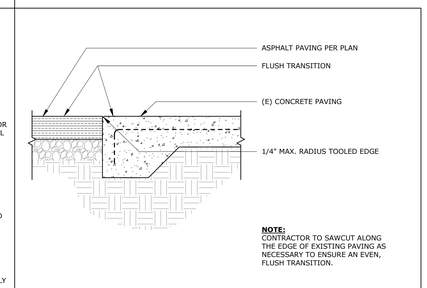
SCALE: 1 1/2" = 1'-0" | 12



NOTE : VERIFY INFO WITH POLICE PRIOR TO SIGN FABRICATION. PHONE NO. SHALL BE PERMANENTLY FABRICATION PORTION OF SIGN

TOW AWAY SIGN

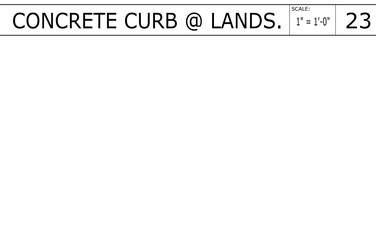
SCALE: 1 1/2" = 1'-0" | 7



NOTE:
CONTRACTOR TO SAWCUT ALONG THE EDGE OF EXISTING PAVING AS NECESSARY TO ENSURE AN EVEN, FLUSH TRANSITION.

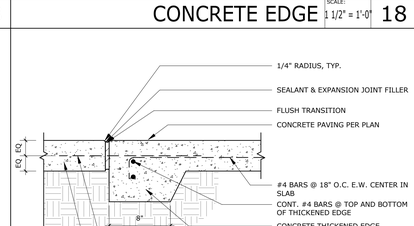
AC PAVING @ CONC PAVING

SCALE: 1 1/2" = 1'-0" | 2



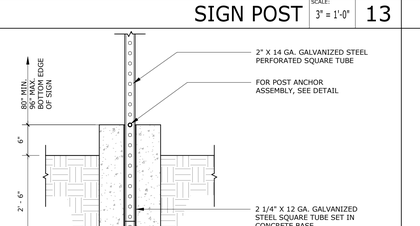
CONCRETE CURB @ LANDS.

SCALE: 1" = 1'-0" | 23



CONCRETE EDGE

SCALE: 1 1/2" = 1'-0" | 18



SIGN POST

SCALE: 3" = 1'-0" | 13

NOTES:
1.STENCIL ONE SYMBOL ON TO PARKING SURFACE IN EACH ACCESSIBLE PARKING STALL.

2.PROPORTIONS TO MATCH IIB-703.7.2.1

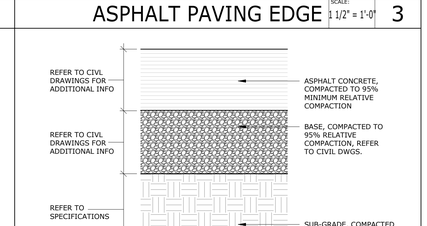
3.LOCATE PER PARKING STALL DETAIL(S).

4.ALL LINES 4" WIDE PAINTED WHITE ON BLUE BACKGROUND.

5.ALIGN BOTTOM OF SYMBOL SQUARE WITH BACK OF STALL STRIPING.

ISA PAVEMENT SIGN

SCALE: 3/4" = 1'-0" | 8



ASPHALT PAVING EDGE

SCALE: 1 1/2" = 1'-0" | 3

CONC PAVING @ CONC PAVING

SCALE: 1 1/2" = 1'-0" | 19

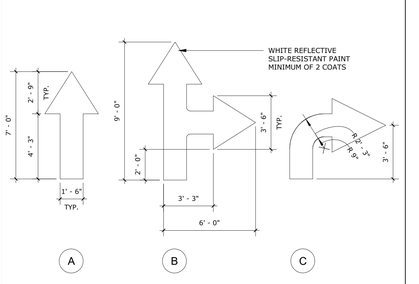
EXTERIOR SIGN FOOTING

SCALE: 1" = 1'-0" | 14

NOTE:
FOR MORE INFO., REFER TO SPECIFICATIONS

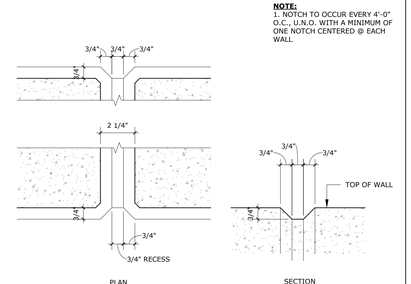
ASPHALT PAVING

SCALE: 12" = 1'-0" | 4



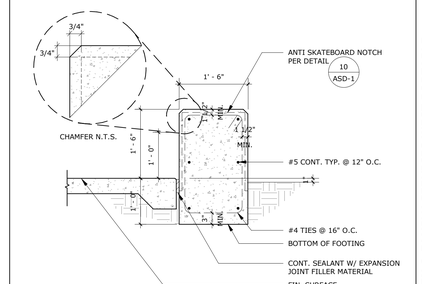
PAVEMENT DIRECTIONAL SIGN

SCALE: 1/4" = 1'-0" | 15



CAST-IN-PLACE ANTI SKATE

SCALE: 3" = 1'-0" | 10



CAST-IN PLACE SEAT WALL

SCALE: 3/4" = 1'-0" | 5

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

STAMPS

AGENCY APPROVAL
File No.: ########/##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

PROJECT No. :1-41-58
1/9/2026 4:18:31 PM

DRAWN BY:

CHECKED BY:

DELTA #	DATE	ADD	AFO	CCD	REV
DELTA #	DATE	ADD	AFO	CCD	REV
DELTA #	DATE	ADD	AFO	CCD	REV
DELTA #	DATE	ADD	AFO	CCD	REV

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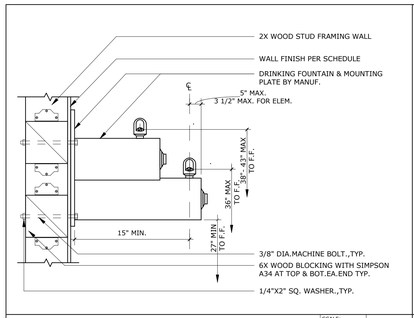
CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

SITE DETAILS

ASD-1

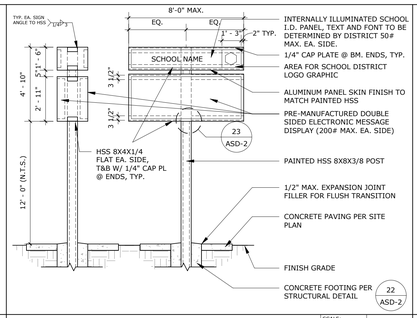
1-41-58

CHILDREN & FAMILY SERVICES WEST PORTABLE:



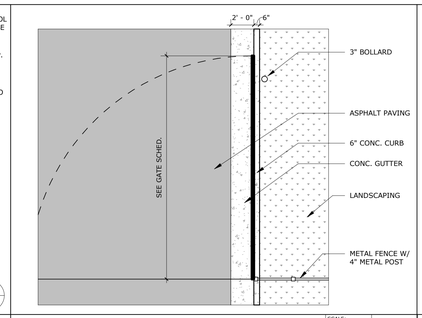
D.F. ATTACH. @ WOOD STUDS

SCALE: 1 1/2" = 1'-0" | 26



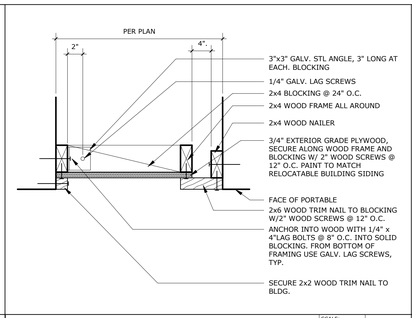
MARQUEE SIGN

SCALE: NTS | 21



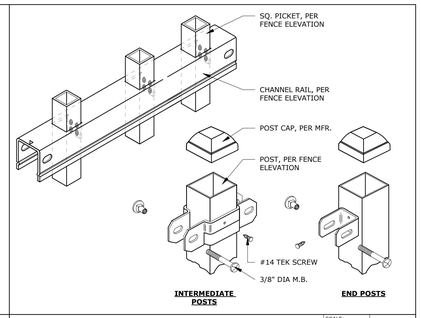
FENCE POST/CURB

SCALE: 3/16" = 1'-0" | 16



CLOSURE PANEL

SCALE: 1 1/2" = 1'-0" | 11



METAL FENCE - ATTACHMENT

SCALE: N.T.S. | 6

AGENCY APPROVAL
File No.: ########/##-########

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DIV. OF THE STATE ARCHITECT
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STAMPS

CONSULTANT BRANDING

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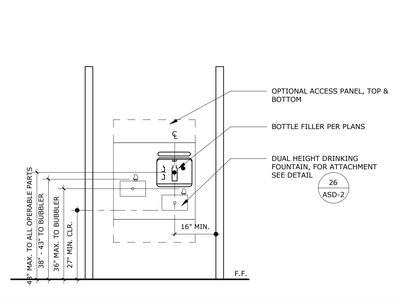
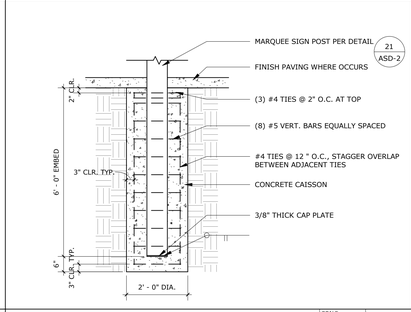


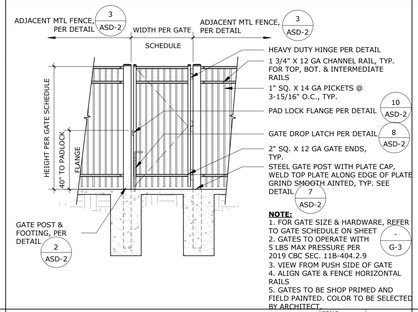
ACCESS D.F. @ ALCOVE ELEV

SCALE: 1/2" = 1'-0" | 27



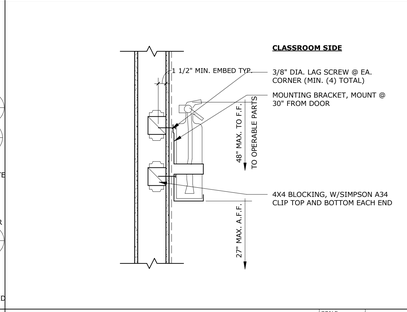
MARQUEE SIGN FOOTING

SCALE: 1/2" = 1'-0" | 22



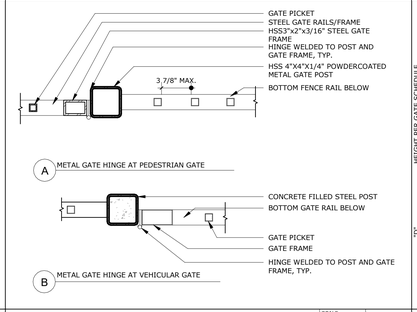
METAL SINGLE GATE - ELEV.

SCALE: 1/4" = 1'-0" | 17



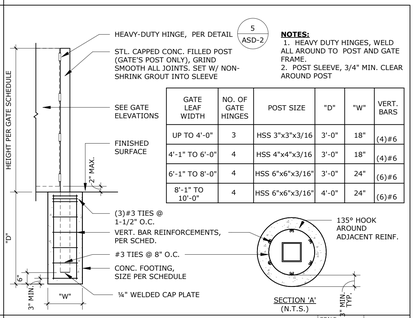
FIRE EXTINGUISHER

SCALE: 1" = 1'-0" | 12



METAL GATE HINGE POST

SCALE: 1 1/2" = 1'-0" | 7



GATE LEAF WIDTH	NO. OF GATE HINGES	POST SIZE	"D"	"W"	VERT. BARS
UP TO 4'-0"	3	HSS 3"x3"x3/16	3'-0"	18"	(4)#6
4'-1" TO 6'-0"	4	HSS 4"x4"x3/16	3'-0"	18"	(4)#6
6'-1" TO 8'-0"	4	HSS 6"x6"x3/16"	3'-0"	24"	(6)#6
8'-1" TO 10'-0"	4	HSS 6"x6"x3/16"	4'-0"	24"	(6)#6

MTL FENCE & GATE POST FTNG

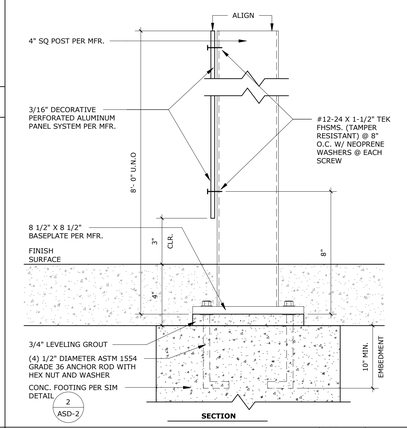
SCALE: 3/8" = 1'-0" | 2

WARNING RAIL @ D.F.

SCALE: 3/4" = 1'-0" | 28

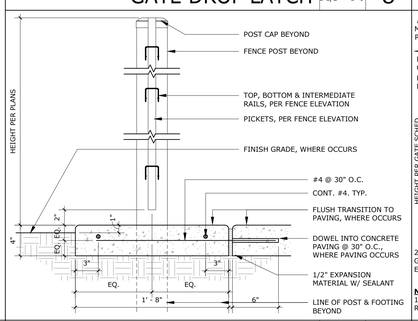
HSS MOMENT CONNECTIONS

SCALE: 1" = 1'-0" | 23



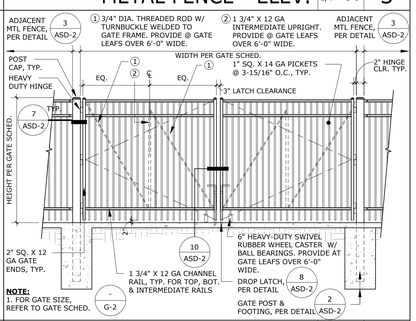
METAL PANEL DETAILS

SCALE: 3" = 1'-0" | 14



METAL FENCE - SECTION

SCALE: 1 1/2" = 1'-0" | 9



METAL SERVICE GATE - ELEV.

SCALE: 1 1/2" = 1'-0" | 4

EV CHARGER

SCALE: 1 1/2" = 1'-0" | 30

METAL PANEL - ELEV.

SCALE: 3/8" = 1'-0" | 15

GATE DROP LATCH SECTION

SCALE: 1 1/2" = 1'-0" | 10

METAL FENCE - HINGE

SCALE: N.T.S. | 5

PROJECT No. :1-41-58
1/9/2026 4:18:32 PM

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DELTA # _____ DATE _____
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CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

SITE DETAILS

ASD-2

1-41-58

CHILDREN & FAMILY SERVICES WEST PORTABLE:

TMP SERVICES

2929 KANSAS AVE.
RIVERSIDE, CA 92507
(951) 213-3900
FAX (651) 213-3997

PC
ACCESSIBLE RAMPS/ LANDINGS/STAIRS

STATE OF CALIFORNIA - 2018 IBC/2019 CBC

"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

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EXL STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF
2. NO SNOW LOADING
3. NO FLOOD LOADING
4. WIND:
   WIND SPEED = 130 MPH
   RISK CATEGORY = II
   EXPOSURE = C
   K_{ZT}= 1.0
   WIND DESIGN PER ASCE 7-16 CHAPTER 29
5. SEISMIC:
   RISK CATEGORY = II
   I_e = 1.0
   S_S = 3.73
   S_1 = 1.30
   SITE CLASS = D
   S_{DS}= 2.984
   C_S = 1.119 (ASCE 7-16 EQUATION 15.4-2)
   R = 3.25 (ASCE 7-16 TABLE 15.4-1)
6. ALLOWABLE SOIL BEARING = 1000 PSF
7. THIS PC CANNOT BE USED IN WILDLAND URBAN INTERFACE (WUI) AREAS.

CODES: (TITLE 24 CODES)

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)....(PART 1, TITLE 24, CCR)

2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2018 EDITION INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2018 EDITION INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN CODE (CFC), (PART 9, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)
NFPA 13 2016
NFPA 72 2016

2019 CODE SECTIONS FOR APPLICABLE STANDARDS
2019 CBC, CHAPTER 35

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Sheet No.	Description	Dated	Revised
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2	ACCESSIBLE RAMP ELEVATIONS & DETAILS	03 FEB 2020	
3	ACCESSIBLE RAMP DETAILS & NOTES	03 FEB 2020	
4	DETAILS & NOTES	03 FEB 2020	
5	ACCESSIBLE RAMP SWITCH BACK DETAILS	03 FEB 2020	
6	STAIRS - OPTIONAL	03 FEB 2020	
~~7~~	~~ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK~~	~~03 FEB 2020~~	
~~8~~	~~ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS~~	~~03 FEB 2020~~	

ALTERNATE RAMPS/LANDINGS/STAIRS

Sheet No.	Description	Dated	Revised
~~1A~~	~~COVER SHEET~~	~~03 FEB 2020~~	
~~2A~~	~~ACCESSIBLE RAMP ELEVATIONS & DETAILS~~	~~03 FEB 2020~~	
~~3A~~	~~ACCESSIBLE RAMP DETAILS & NOTES~~	~~03 FEB 2020~~	
~~4A~~	~~DETAILS & NOTES~~	~~03 FEB 2020~~	
~~5A~~	~~ACCESSIBLE RAMP SWITCH BACK DETAILS~~	~~03 FEB 2020~~	
~~6A~~	~~STAIRS - OPTIONAL~~	~~03 FEB 2020~~	
~~7A~~	~~ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK~~	~~03 FEB 2020~~	
~~8A~~	~~ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS~~	~~03 FEB 2020~~	

DSA APPROVALS

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DATE: 01/14/2026

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A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMAS
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

COVER SHEET

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

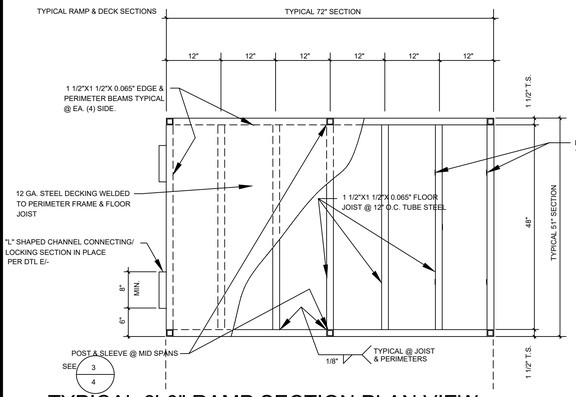
STATE OF CALIFORNIA -2019 CBC
PC

DRAWN
CHECKED
DATE
03 FEB 2020
SCALE
JOB NO.

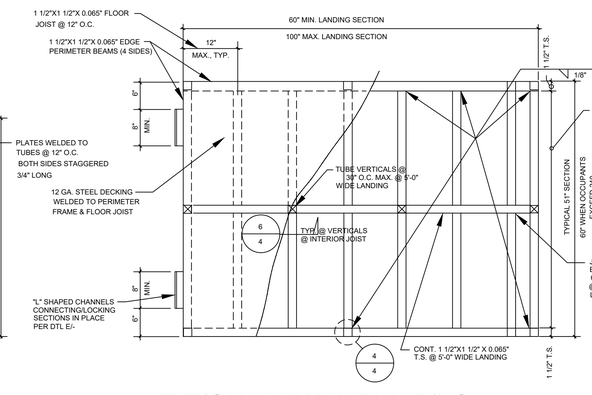
1

1 OF 16 SHEETS

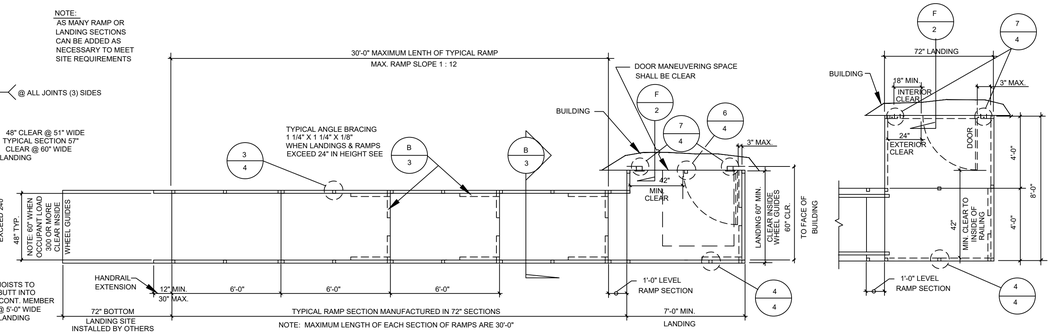
TMP SERVICES DSA RAMP & LANDING - STEEL SHEET 1.DWG



TYPICAL 6'-0" RAMP SECTION PLAN VIEW (A)



TYPICAL 7'-0" X 5'-0" LANDING (G)

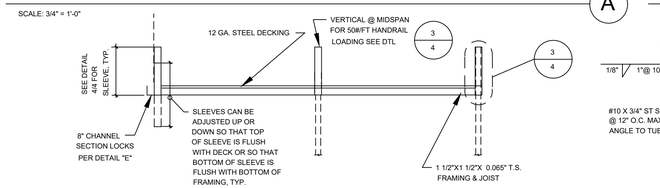


TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT

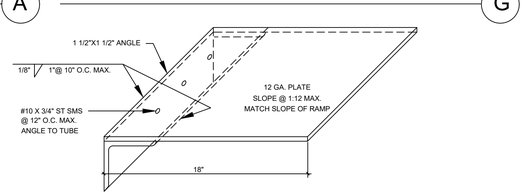
SCALE: 1/4" = 1'-0"

OPTIONAL LANDING

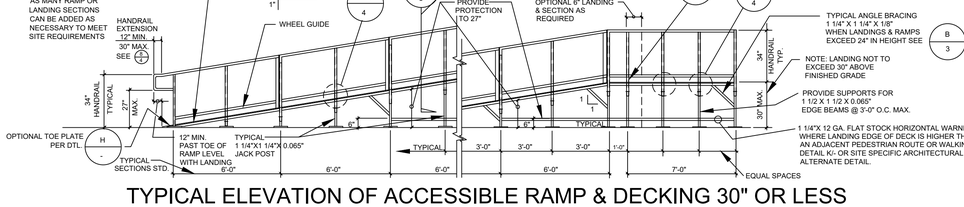
SCALE: 1/4" = 1'-0"



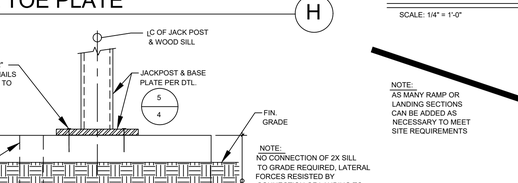
SIDE/END VIEW OF LEVEL DECK SECTION (B)



OPTIONAL TOE PLATE (H)

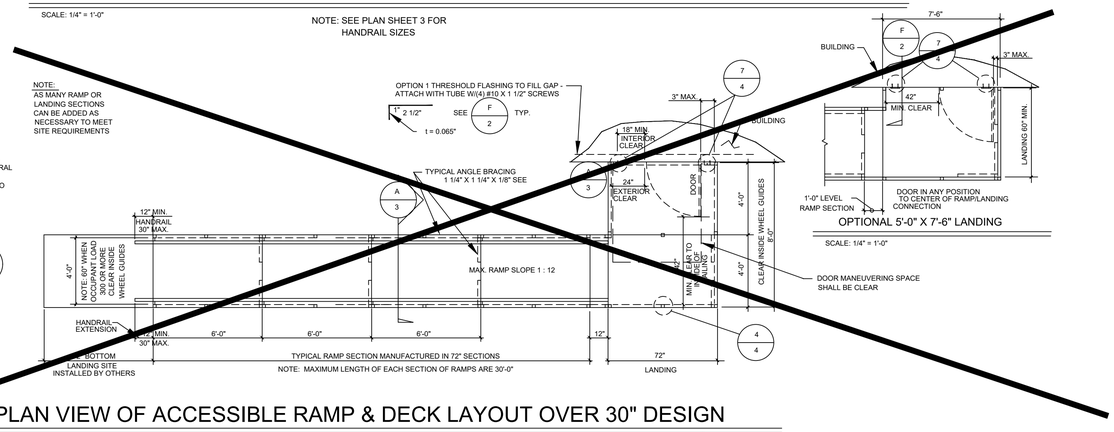


TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS



SIDE VIEW OF SLOPING RAMP SECTION TYPICAL (C)

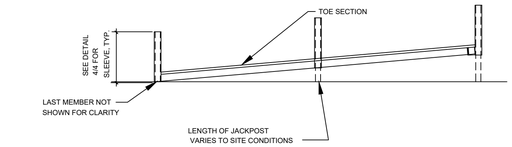
ALTERNATE WOOD SILLS @ JACK POST TO GRADE WHERE CONCRETE OR AC PAVING DOES NOT OCCUR (J)



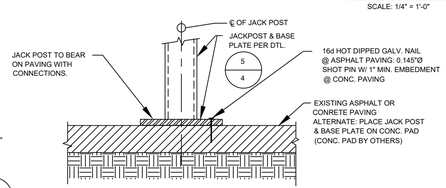
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

OPTIONAL 5'-0" X 7'-6" LANDING

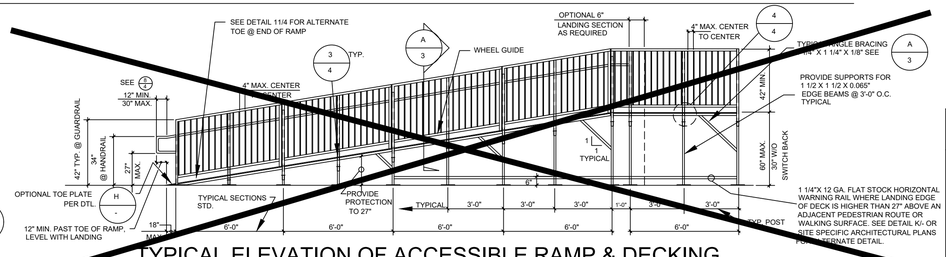
SCALE: 1/4" = 1'-0"



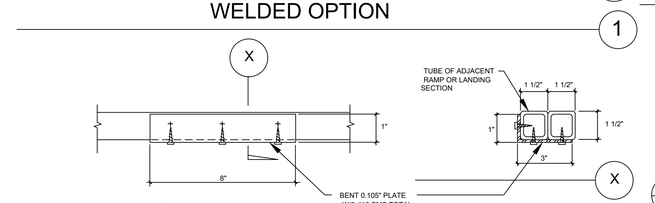
TOE SECTION (D)



JACK POST TO PAVING (JA)



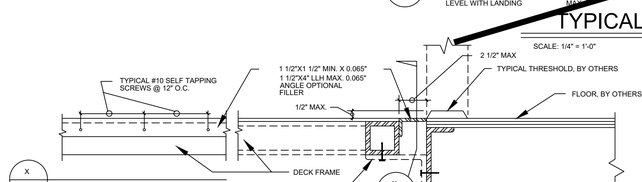
TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING



WELDED OPTION (X 1)

SMS OPTION (X 2)

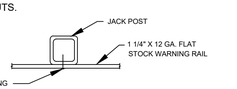
8" CHANNEL SECTION (E)



FILLER DETAIL (F)

NOTE: 1. SEE PLAN SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

2. PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE, SEE SHEET 5 FOR OPTIONAL RAMP/LANDING LAYOUTS.



(K)

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DATE SIGNED January 7, 2021

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RIVERSIDE, CA 92507
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FAX: (951)213 3997

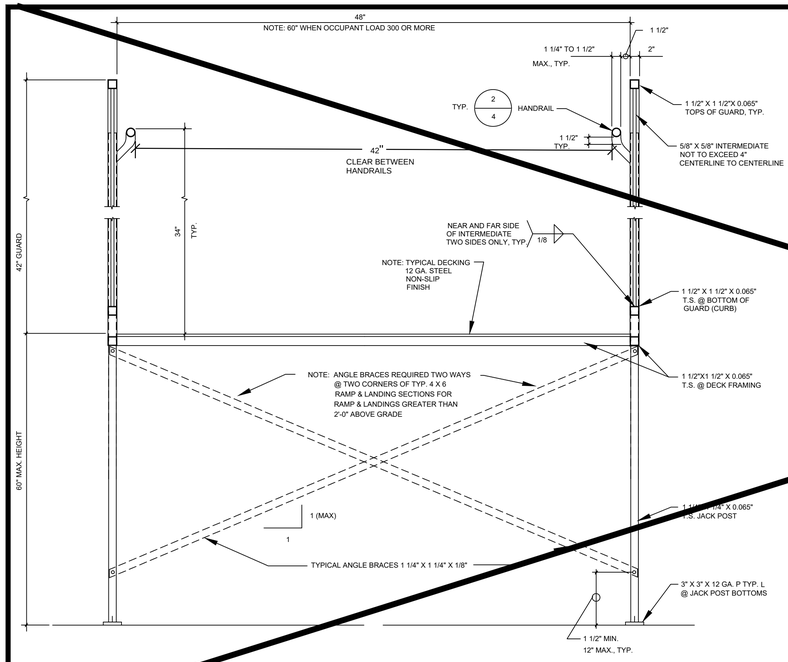
SITE:
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

2

2 OF 16 SHEETS

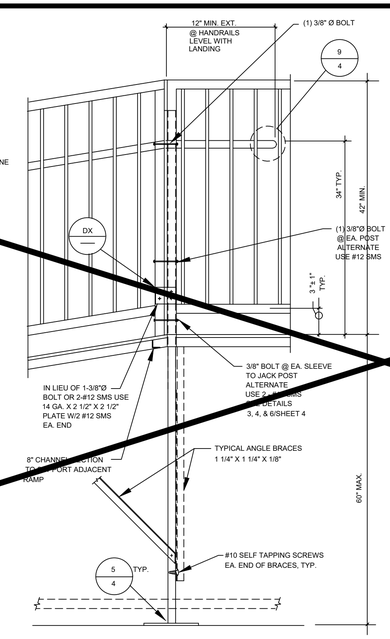
TMP DSA RAMP AND LANDING STEEL SHEET 2.DWG



A

TYPICAL CROSS SECTIONS 30"

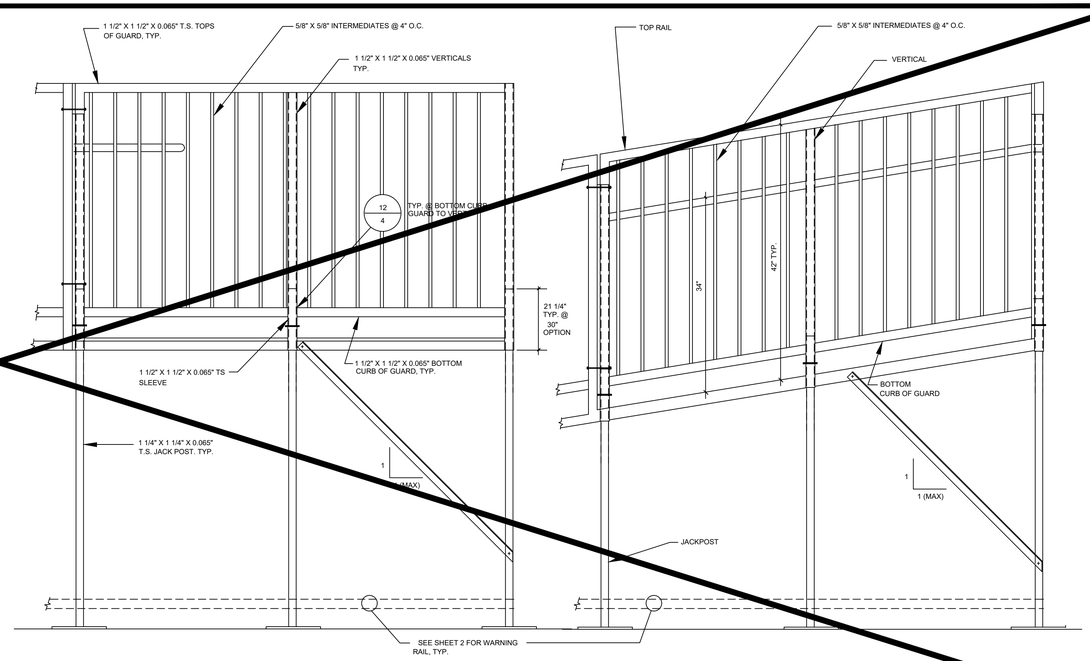
SCALE: 1" = 1'-0"



C

POST SECTION 30"

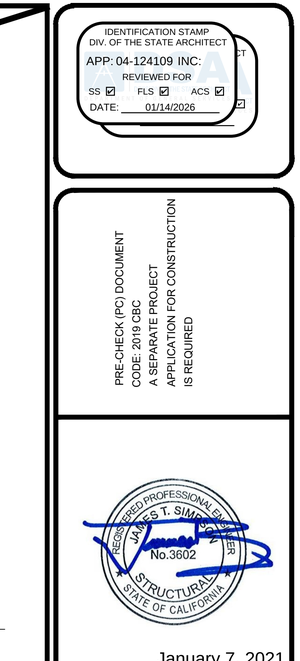
SCALE: 1" = 1'-0"



E

LANDING RAIL LAYOUT 30"

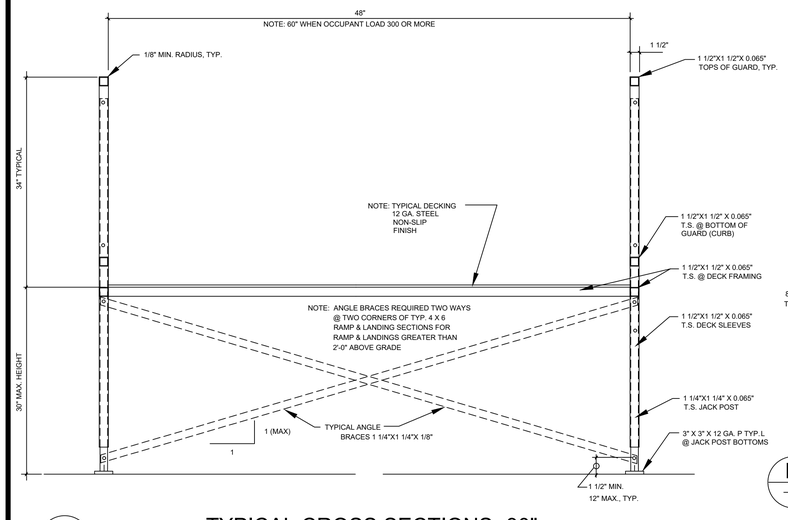
SCALE: 1" = 1'-0"



G

RAMP RAILING LAYOUT 30"

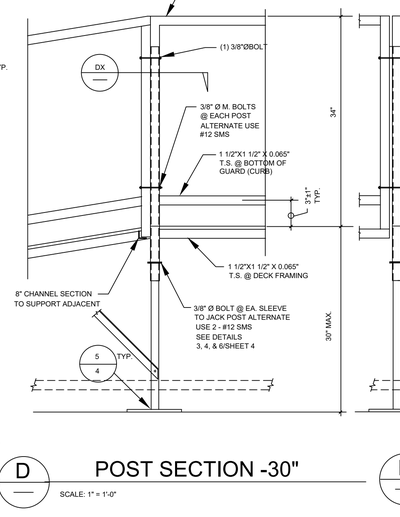
SCALE: 1" = 1'-0"



B

TYPICAL CROSS SECTIONS -30"

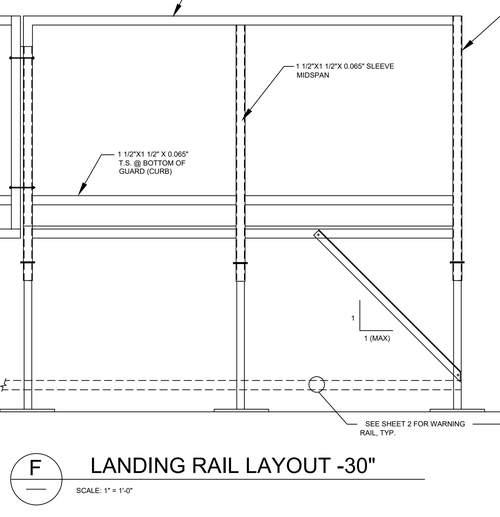
SCALE: 1" = 1'-0"



D

POST SECTION -30"

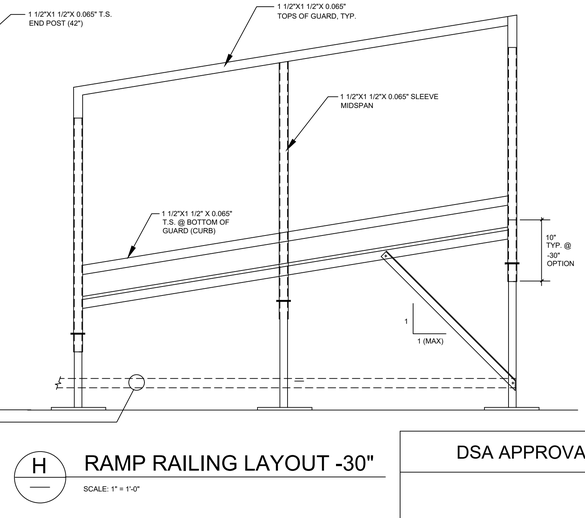
SCALE: 1" = 1'-0"



F

LANDING RAIL LAYOUT -30"

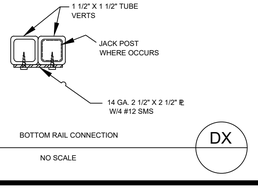
SCALE: 1" = 1'-0"



H

RAMP RAILING LAYOUT -30"

SCALE: 1" = 1'-0"



BOTTOM RAIL CONNECTION

NO SCALE

DX

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ACCESSIBLE RAMP
DETAILS & NOTES

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

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DRAWN

CHECKED

DATE
03 FEB 2020

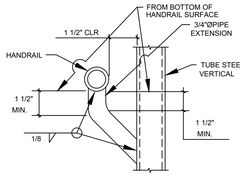
SCALE

JOB NO.

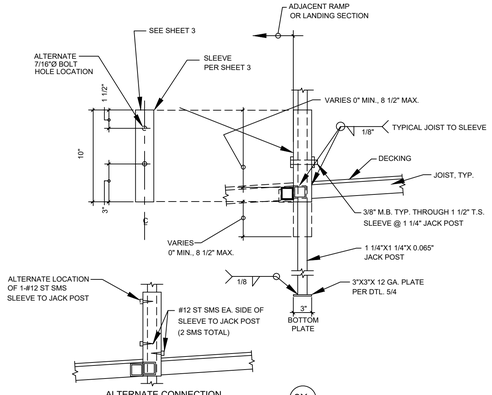
3

3 OF 16 SHEETS

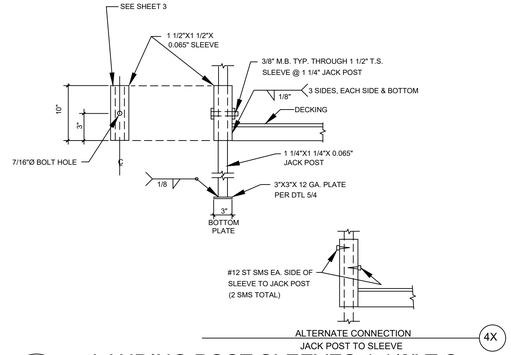
TMP DSA RAMP & LANDING STEEL SHEET 3.DWG



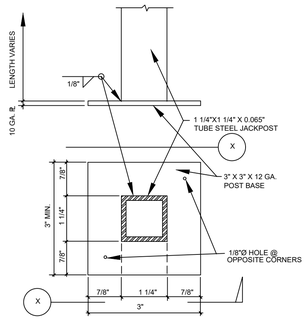
2/4 TYPICAL HANDRAIL ARMS



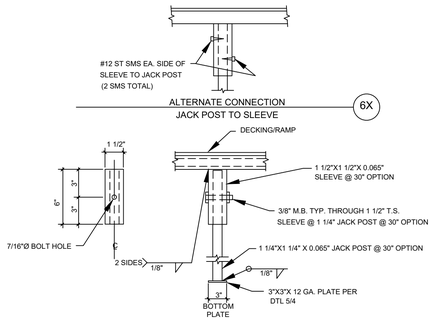
3/4 RAMP POST SLEEVES 1 1/2" T.S.



4/4 LANDING POST SLEEVES 1 1/2" T.S.

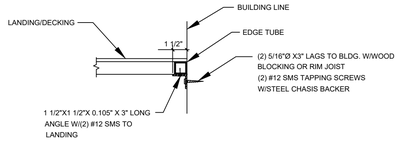


5/4 POST BASE



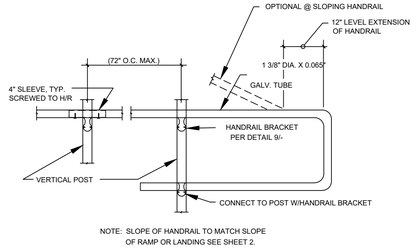
6/4 MID SPAN POST

NOTE: USE 2" X 2" X 0.12" SLEEVE AND 1 1/2"X1 1/2"X 0.065" JACK POST @ ABOVE 30" OPTION



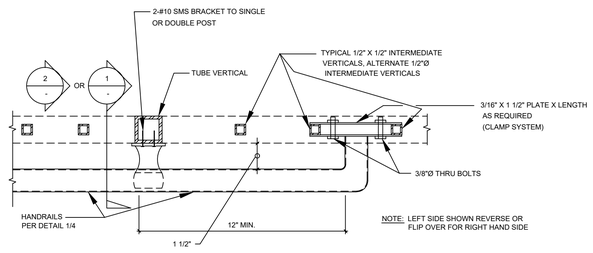
7/4 LANDING TO BUILDING

NOTE: DECK SECTIONS ARE FREE STANDING FOR VERTICAL LOADS.



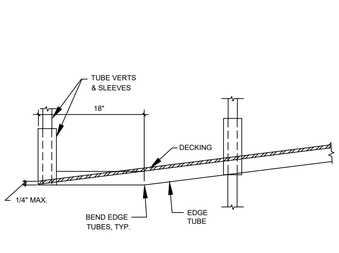
NOTE: SLOPE OF HANDRAIL TO MATCH SLOPE OF RAMP OR LANDING SEE SHEET 2.

8/4 OPTIONAL CONNECTION @ HANDRAIL DETAIL



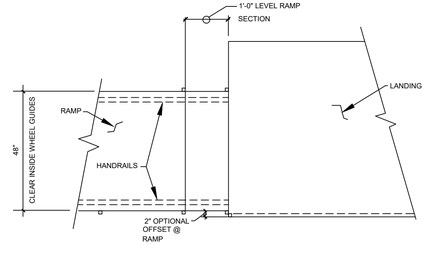
OPTIONAL HANDRAIL DETAIL @ TOP OF STAIRS OR RAMPS

9/4



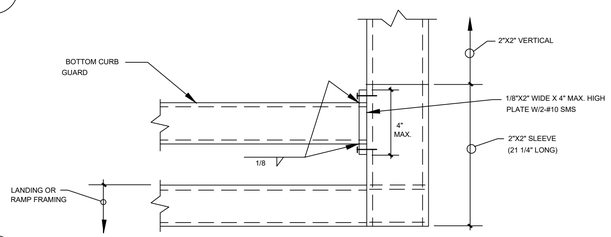
10/4 TOE @ END OF RAMP

NO SCALE



11/4

NO SCALE



12/4

NOTES:

CODES:
2019 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:
LIVE LOAD: 100 PSF
WIND LOAD: SEE SHEET 1
SEISMIC: SEE SHEET 1
HANDRAIL & GUARD RAIL LOADS:
50#/FT
200# POINT LOAD

MATERIAL SPECIFICATIONS:
STEEL: ALL TUBE STEEL ASTM A-1008 CS TYPE A OR B (Fy = 40 KS1)
ALL SHEET, ANGLES, PLATE ETC. TO BE A1011SS GRADE 40
ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING
BOLTS: ASTM A307 COMMON BOLTS HOT DIPPED GALVANIZED W/ STAINLESS STEEL WASHERS
PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY
D-1.3-2008 FOR SHEET STEEL.
ELECTRODES SHALL BE E70XX.

GENERAL NOTES:
1) RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" OF RISE, PER CBC 11B-405.7.
2) LOCATION OF LANDINGS.
LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION . LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.

NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:

SLOPE	MAX. RISE (INCHES)	MAX. HORIZONTAL PROJECTION
1:12	30	30'-0"
1:16	30	40'-0"
1:20	30	50'-0"
1:15	30	37'-6"

2. SIZE OF TOP LANDINGS. TOP LANDINGS SHALL NOT BE LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN, PER CBC 11B-405.7.2 AND .3.

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED, CBC 11B-405.7.5.
4) RAMPS SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.
5) THE SURFACE OF RAMPS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.
6) RAMPS REQUIREMENTS SHALL BE PER CBC 11B-405.
7) RAMPS AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11B AND 11B-405.5.
8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 11B-405.8 (RAMP), AND 11B-504 (STAIRS).
9) RAMPS SHALL CONFORM TO CBC 11B-405.
10) STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.
11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMPS, CBC 11B-405.7.4.
12) THE WIDTH OF RAMPS SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS, CBC 11B-405.5.
13) SLOPE RAMPS AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.
14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
15) CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1 TITLE 24, CCR.
16) A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4.342 PART 1 TITLE 24 CCR.

IN PLANT: SHOP WELDING INSPECTION AND MATERIAL VERIFICATION

SITE CONSTRUCTION: CLASS 4

DSA APPROVALS

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STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710
MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMS
No.3602
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04 119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

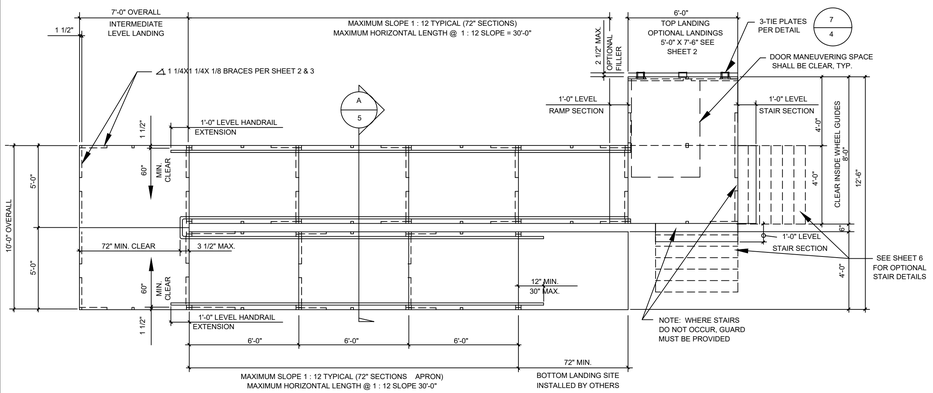
DETAILS AND NOTES

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.
4
4 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 4.DWG



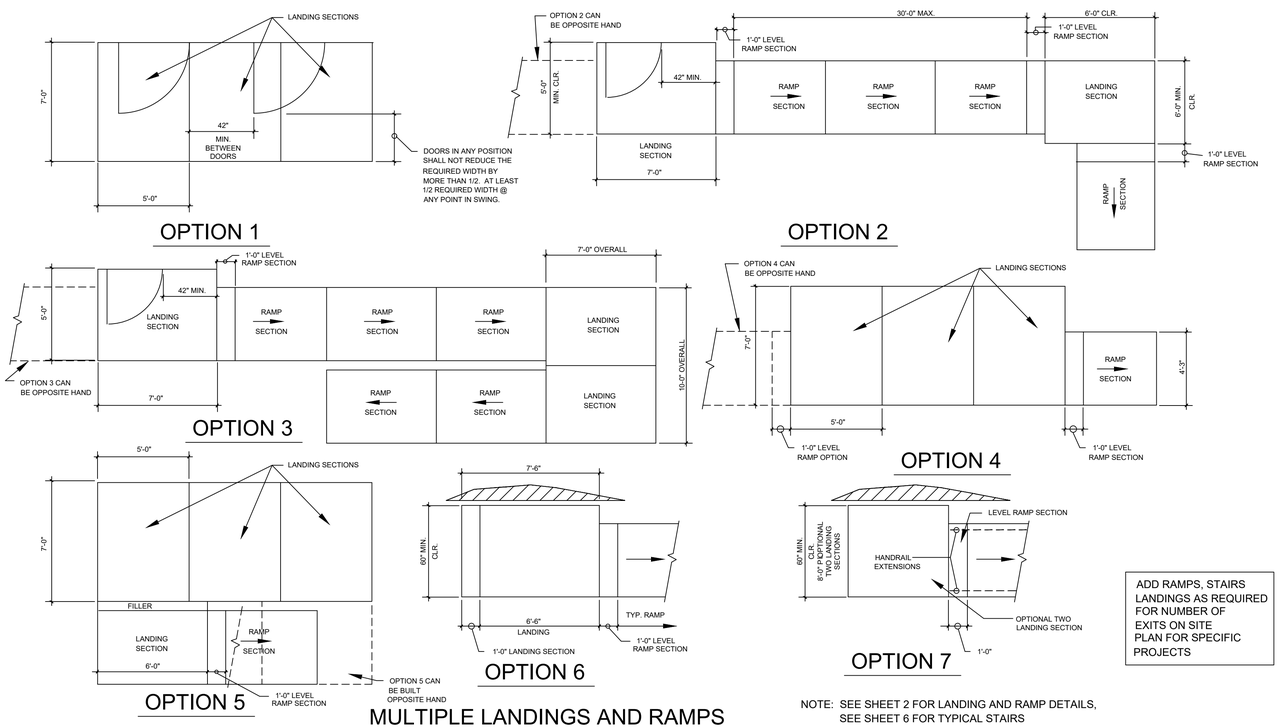
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

SCALE: 1/4" = 1'-0"

TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP

SCALE: 1/4" = 1'-0"

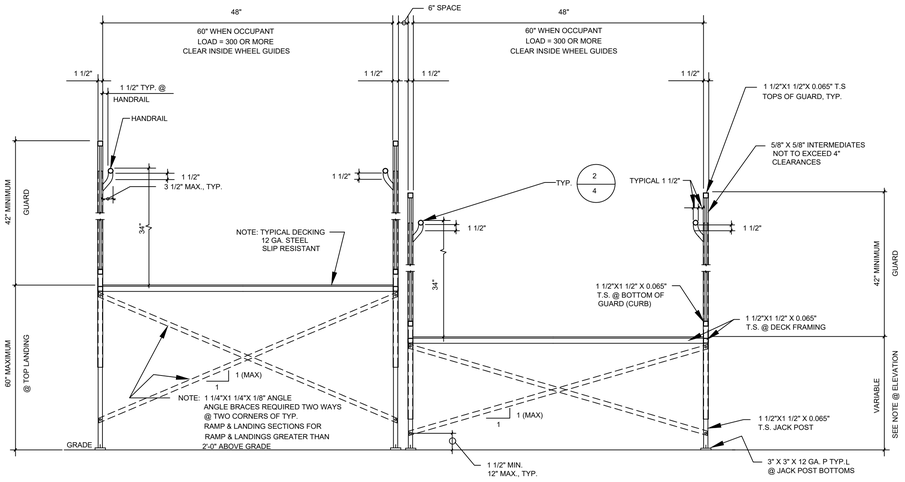
NOTE: SEE SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES



MULTIPLE LANDINGS AND RAMPS

ADD RAMPS, STAIRS LANDINGS AS REQUIRED FOR NUMBER OF EXITS ON SITE PLAN FOR SPECIFIC PROJECTS

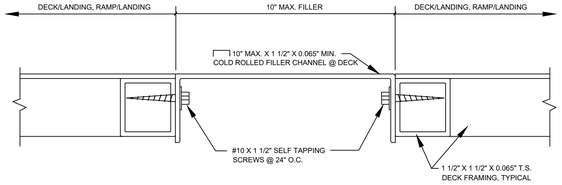
NOTE: SEE SHEET 2 FOR LANDING AND RAMP DETAILS, SEE SHEET 6 FOR TYPICAL STAIRS



A

TYPICAL CROSS SECTIONS

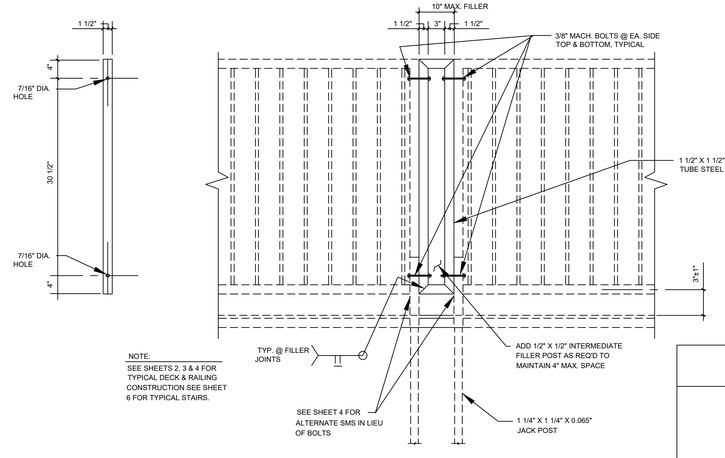
SCALE: 1/4" = 1'-0"



B

TYPICAL DECK CROSS SECTION

SCALE: 1/2" = 1'-0"



C

TYPICAL GUARDRAIL FILLER

SCALE: 3/4" = 1'-0"

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EXL STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710
MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026
DATE: 03/06/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMES No.3602 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP
SWITCHBACK DETAILS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

STATE OF CALIFORNIA
-2019 CBC
PC

DSA APPROVALS

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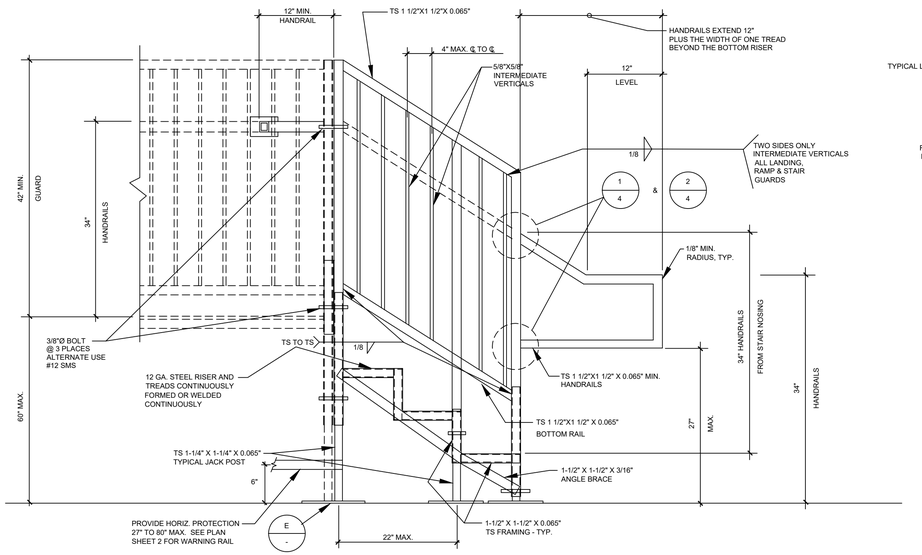
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

5

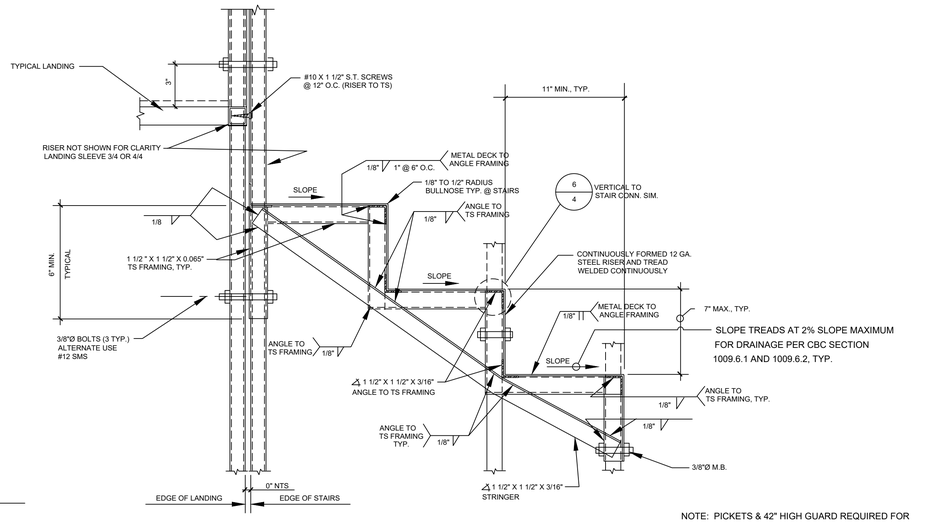
5 OF 16 SHEETS

TMP DSARAMP & LANDING STEEL SHEET 5.DWG



A

SIDE VIEW

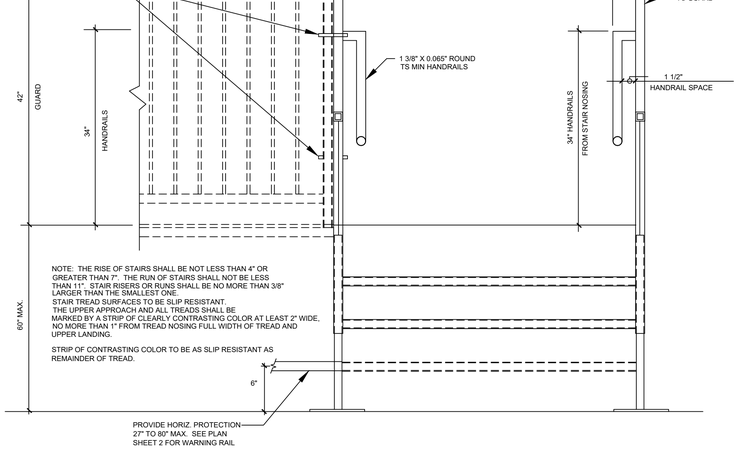


B

SECTION

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE.
FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.

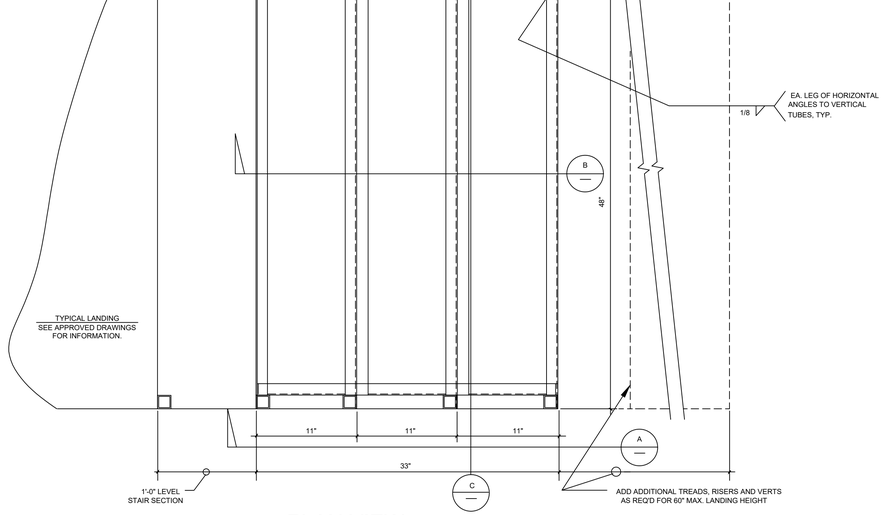
SCALE: 1" = 1'-0"



C

FRONT VIEW

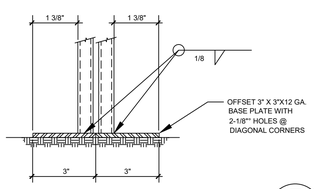
SCALE: 1" = 1'-0"



PLAN VIEW

NOT TO SCALE

D



E

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4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
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AMERICAN CONCRETE INSTITUTE
(909) 613-0234

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

STAIRS OPTIONAL

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

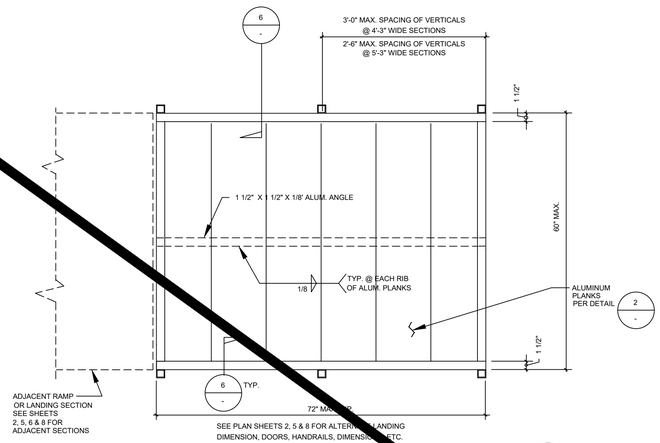
SITE:
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

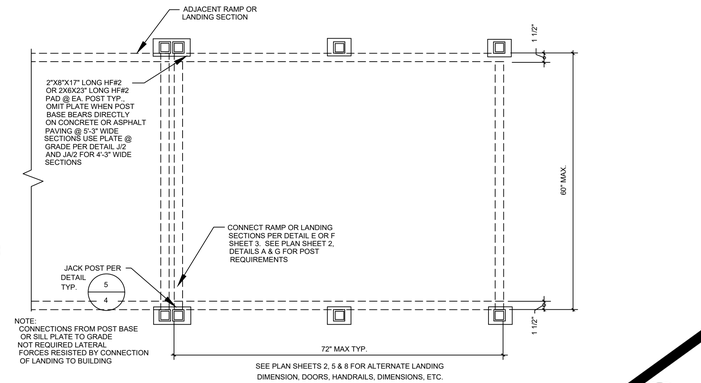
6

6 OF 16 SHEETS

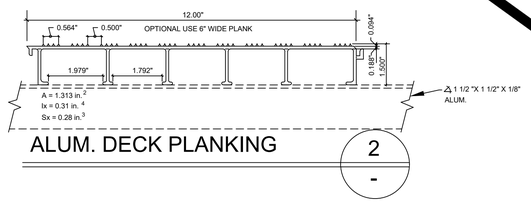
TMP DSA RAMP & LANDING STEEL SHEET 6.DWG



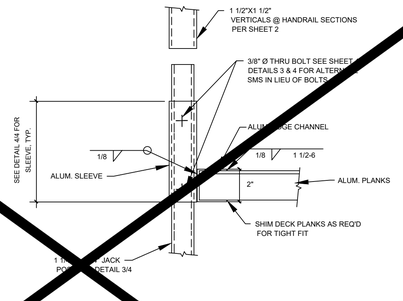
LANDING OR RAMP SECTION — 1B / -



FOOTINGS @ LANDING OR RAMP SECTION — 1A / -

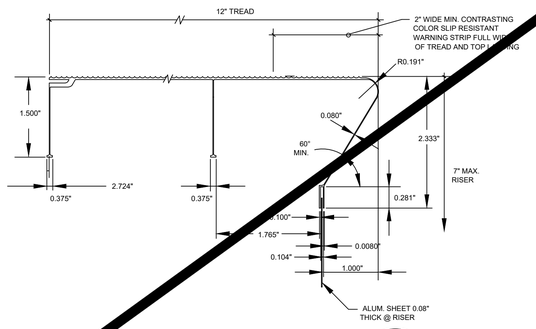


ALUM. DECK PLANKING — 2 / -



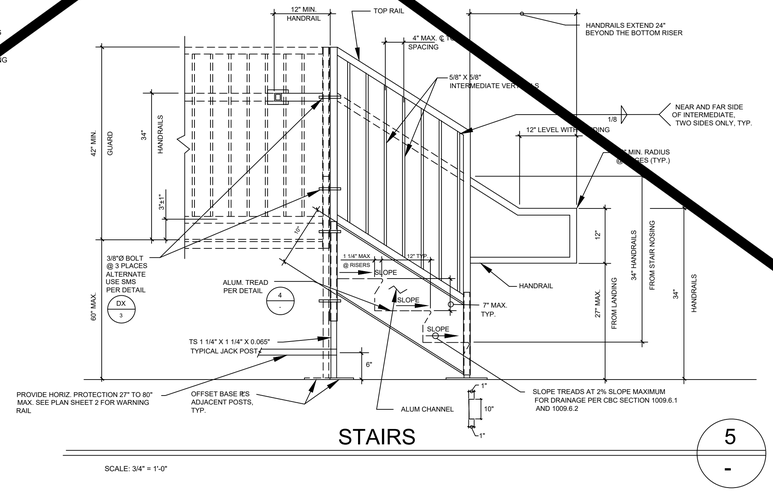
ALUM. SLEEVE DETAIL — 3 / -

SCALE: 3" = 1'-0"



ALUM. STAIR TREAD — 4 / -

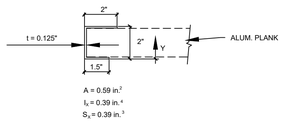
SCALE: 3/4" = 1"



STAIRS — 5 / -

SCALE: 3/4" = 1'-0"

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE.
FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.



ALUM. EDGE CHANNEL — 6 / -

SCALE: 3" = 1'-0"

NOTES:

MATERIAL SPECIFICATIONS:
ALUMINUM:

1 1/4X 1 1/4X 1/8 ANGLE	6063 T5
2"X1 1/2"X1/8" CHANNEL	6063 T5
DECK PLANKS	6063 T5
STAIR PLANKS	6063

BOLTS: ALUMINUM 6061-T6, 2024-T4 OR 7075-T73, ALTERNATE USE TYPE 304 STAINLESS STEEL BOLTS WITH STAINLESS STEEL WASHERS.

WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D1.2 FOR ALUMINUM", ELECTRODES SHALL BE 5356 OR 5556.

SEE SHEET 4 FOR GENERAL NOTES

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(909) 613-0234

DSA APPROVALS

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DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
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DATE: 01/14/2026

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A SEPARATE PROJECT
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REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED January 7, 2021

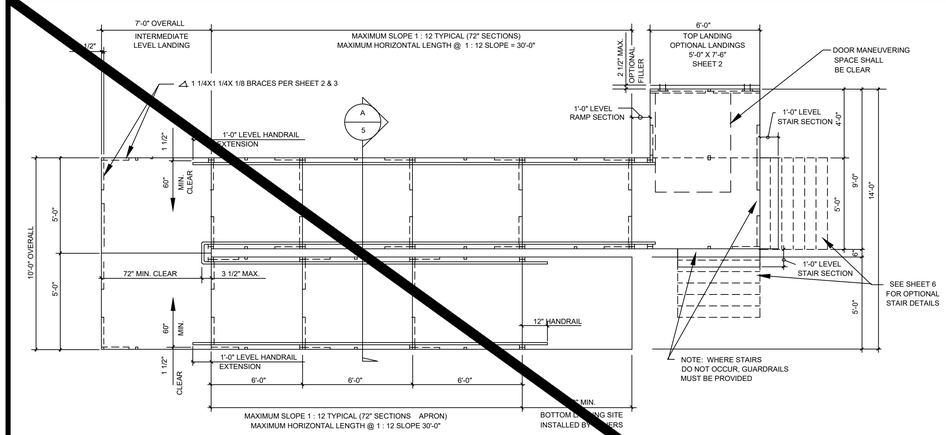
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119601 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP
OPTIONAL ALUMINUM DECK

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

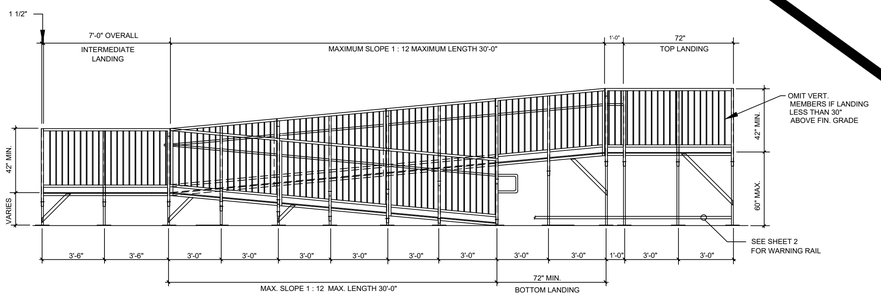
SITE:
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE
03 FEB 2020
SCALE
JOB NO.
7



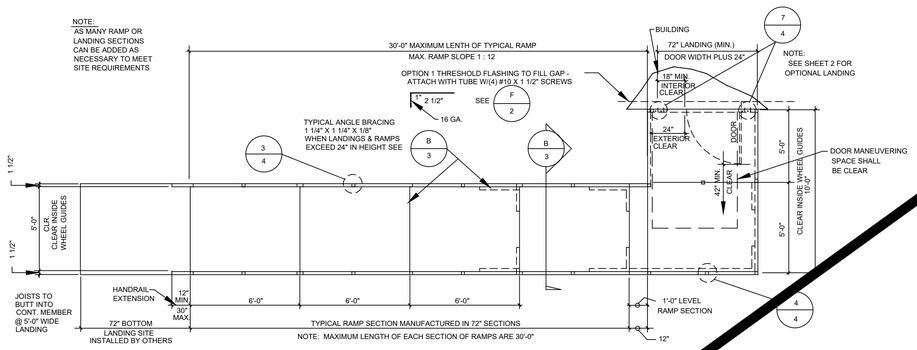
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH BACK & PLATFORMS

SCALE: 1/4" = 1'-0"



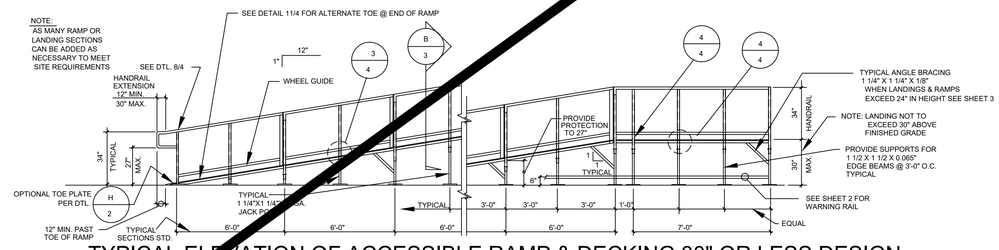
TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP W/ 5'-0" WIDE RAMPS

SCALE: 1/4" = 1'-0"



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT

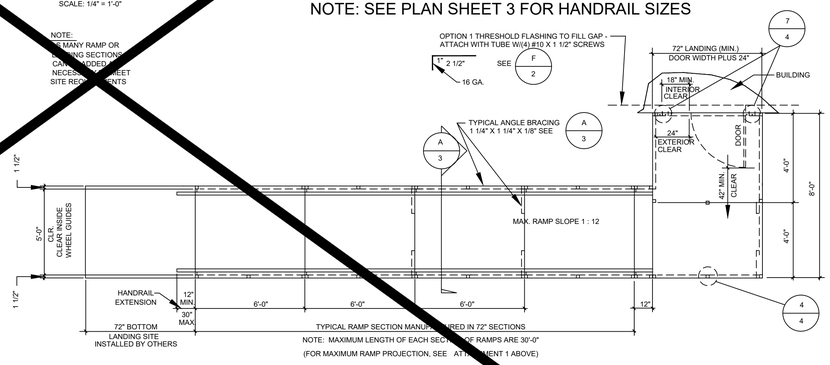
SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS DESIGN

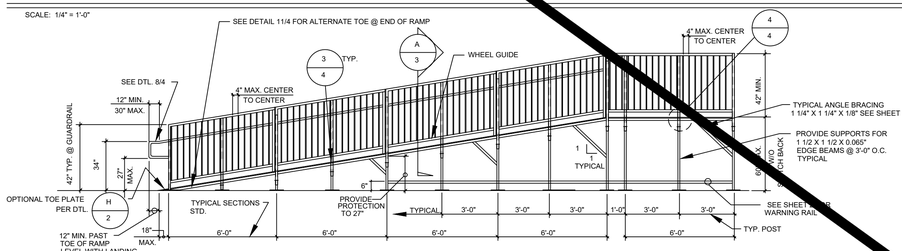
NOTE: SEE PLAN SHEET 3 FOR HANDRAIL SIZES

SCALE: 1/4" = 1'-0"



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

SCALE: 1/4" = 1'-0"

NOTE: SEE PLAN SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

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EXL
STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

DSA APPROVALS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 EXP. 12-31-22 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

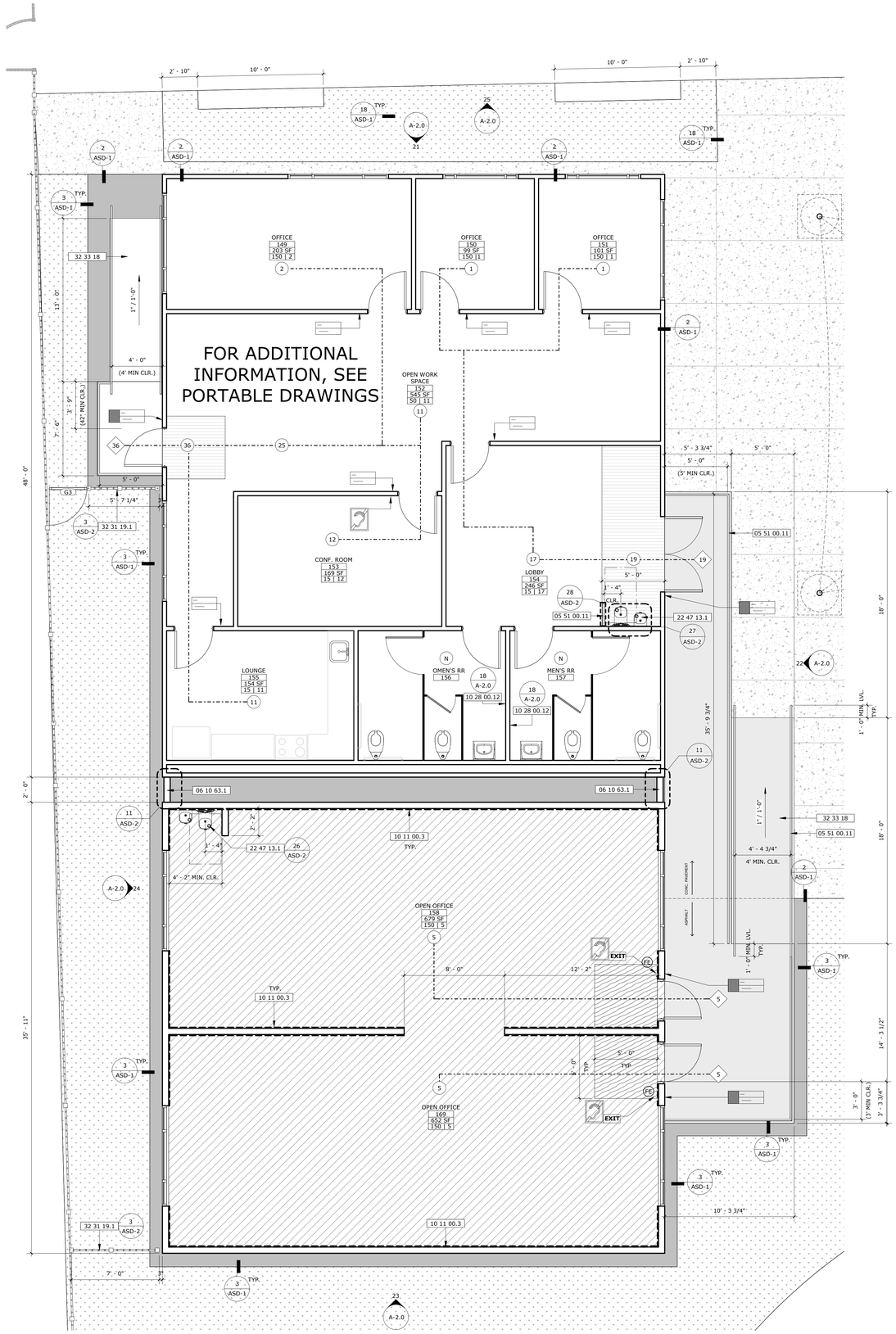
SITE:

STATE OF CALIFORNIA -2019 CBC PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.
8

8 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 8.DWG



ITEM	MATERIAL	LOCATION
06 41 00 - ARCHITECTURAL WOOD CASEWORK		
PL-1	WILSONART, 'RALEIGH WALNUT' #17015K-67	CASEWORK @ KITCHEN
06 83 16 - FIBERGLASS REINFORCED PANELING		
FRP-1	NUDO, CLASS A, SMOOTH, CLASSIC COLOR 'WHITE' #151	RESTROOMS/ KITCHEN
09 51 00 - ACOUSTICAL CEILINGS		
ACT-1	ARMSTRONG, FISSURED, SQUARE LAY-IN #755-WH, WHITE, 24"x48"x5/8" W/ 15/16" PRELUDE SUSPENSION SYSTEM, NRC: 0.55	TYPICAL
ACT-2	ARMSTRONG, CLEAN ROOM VL, SQUARE LAY-IN #870-WH, WHITE, 24"x48"x5/8" W/ 15/16" PRELUDE SUSPENSION SYSTEM, CAC: 0.40	KITCHEN
09 65 00 - RESILIENT FLOORING		
SV-1	AHF CONTRACT, MIXED & VARIEGATED HOMOGENEOUS VINYL SHEET, 'STORM' #1HG2M004 W/ 6" SELF-COVE BASE	RESTROOMS
SV-2	SHAW CONTRACT, TRACTIONSAFETY SHEET, TRACTION SOLE #4492V, 'PROSPER' #00518	KITCHEN
09 65 00 - RESILIENT FLOORING (RUBBER BASE)		
RB-1	ROPPE, RUBBER BASE, 'SMOKE' #174, 4"H	TYPICAL
09 68 13 - TILE CARPETING		
CPT-1	PATCRAFT, EASY ON THE EYES TILE #10227 'ALAKAZAM' #00412, 24"x24" IN ASHLAR INSTALL METHOD	TYPICAL
CPT-2	SHAW CONTRACT, STEPPIN OUT COLLECTION, WELCOME II TILE #5T031 'CHARCOAL' #31549, 24"x24" IN QUARTER TURN INSTALL METHOD	WALK-OFF
09 91 13 - EXTERIOR PAINTING		
P-1	DUNN EDWARDS, 'WARM WHITE' #DEW380	TYPICAL
P-2	DUNN EDWARDS, CUSTOM COLOR TO MATCH 'JURUPA DARK GREY' CMYK 5,2,0,52	RAMP/ RAILS/ ROOF FLASHING/ GUTTERS/ DOWNSPOUTS/ FOUNDATION SKIRTING/
P-3	DUNN EDWARDS, CUSTOM COLOR TO MATCH 'JURUPA RED' CMYK 0,94,75,27	HM DOORS/ FRAMES/ TRIM
P-4	DUNN EDWARDS, CUSTOM COLOR TO MATCH 'JURUPA LIGHT ORANGE' CMYK 0,33,61,1	PAINTED GRAPHIC
P-5	DUNN EDWARDS, CUSTOM COLOR TO MATCH 'JURUPA LIGHT BLUE' CMYK 40,18,0,9	PAINTED GRAPHIC
P-6	DUNN EDWARDS, CUSTOM COLOR TO MATCH 'JURUPA DARK BLUE' CMYK 100,53,0,27	PAINTED GRAPHIC
P-7	DUNN EDWARDS, CUSTOM COLOR TO MATCH 'JURUPA GREEN' CMYK 13,0,68,24	PAINTED GRAPHIC
09 91 23 - INTERIOR PAINTING		
P-1	DUNN EDWARDS, 'WARM WHITE' #DEW380	GYP CEILING @ RESTROOMS
10 11 00 - VISUAL DISPLAY UNITS		
TWP-1	CHATFIELD CLARKE, KOROSEAL, HURSTBOURNE, 'TRUFFLE' #VPHB-04 (FULL-HEIGHT)	TYPICAL
10 14 00 - SIGNAGE		
SIGN-1	CUSTOM COLORS TO MATCH EXISTING	TYPICAL
10 21 13.19 - PLASTIC TOILET COMPARTMENTS		
TP-1	ASI ACCURATE PARTITIONS, 'PEWTER GRAY' #8100 W/ WOODGRAIN FINISH	RESTROOMS
12 11 03 - MURAL PAINTING AND FAUX FINISHES		
MUR-1	CUSTOM PAINTED MURAL, USING P-1 THRU P-7, ARCHITECT TO PROVIDE ARTWORK	EXTERIOR
12 24 00 - WINDOW SHADES		
RS-1	DW INDUSTRY, 30 DN SERIES, 'BLACK/BLACK' #914, 3% OPENNESS	TYPICAL
12 36 00 - COUNTERTOPS		
PL-2	WILSONART, 'BACKYARD PATIO' #Y0755-38	KITCHEN
13 31 33 - PRE-ENGINEERED FABRIC SHADE STRUCTURES		
FSS-1	USA SHADE, COLOURSHADE FR 'BLUE'	EXTERIOR
32 13 13 - SITE CONCRETE		
CONC-1	SIKA, NATURAL CONCRETE TO MATCH EXISTING	EXTERIOR/ SEAT WALLS
32 31 19 - DECORATIVE METAL FENCES AND GATES		
OSF-1	AMERISTAR, MONTAGE II SERIES, PRE-FINISHED POWDER COATING 'BLACK'	EXTERIOR

COLORS, MATERIALS & FINISHES LEGEND

PROPOSED PLAN

SCALE: 1/4" = 1'-0"

10

AGENCY APPROVAL
File No: ########-##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

STAMPS

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN OR EDGE OF SLAB, U.N.O.

KEYNOTES

05 51 00.11	GALVANIZED METAL HANDRAILS PER PC#04-119501
06 10 63.1	MODULAR WALL PANEL ENCLOSURES
10 11 00.3	REMOVE AND REPLACE EXISTING TACKABLE WALL PANELS
10 28 00.12	RECESSED PAPER TOWEL DISPENSER
22 47 13.1	ELKAY EZH20 LZSTLBWSP, ADA, BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. STAINLESS STEEL BASIN WITH INTEGRAL DRAIN. DELIVERS 8 GPH OF 50 DEGREE F OF DRINKING WATER, BOTTLE FILLER SHALL PROVIDE 1.1 GPM FLOW RATE W/LAMINAR FLOW. WATERSENTRY PLUS 3000-GALLON CAPACITY FILTER. PROVIDE 1/2" COLD WATER AND 2" SEWER, CONNECTIONS TO SITE WATER AND SEWER PER CIVIL DRAWINGS AND 1-1/2" VENT PENETRATION THROUGH ROOF.
32 31 19.1	8'-0" HIGH ORNAMENTAL FENCE
32 33 18	RAMP PER PC#04-119501

LEGEND

- LANDSCAPE PER LANDSCAPE DRAWINGS
- ASPHALT PAVING, SEE DETAIL 4 / ASD-1 FOR ADDITIONAL INFORMATION, SEE CIVIL DRAWINGS
- CONCRETE PAVING **(CONC-1)**, SEE DETAIL 16 / ASD-1 AND 17 / ASD-1 FOR ADDITIONAL INFORMATION, SEE CIVIL DRAWINGS
- PORTABLE PC RAMP PER PC#04-119501. PROVIDE RAMP SKIRT PANELS AROUND PERIMETER OF RAMP LANDING.
- REMOVE AND REPLACE EXISTING CARPET FLOOR FINISH AND BASE BOARDS. PROVIDE NEW RUBBER BASE AND CARPET **(CPT-1)**
- REMOVE AND REPLACE EXISTING CARPET FLOOR FINISH AND BASE BOARDS. PROVIDE NEW RUBBER BASE AND WALK-OFF MAT **(CPT-2)**
- WALK-OFF MAT **(CPT-2)**
- FE — ANSUL, INC. SENTRY OR EQUAL, TYPE 2A:20B:C PER CBC 906 IO POUND DRY CHEMICAL FIRE EXTINGUISHER, TYP. EAC CLASSROOM PER DETAIL 12 / ASD-2
- ISA
- ROOM NUMBER / ROOM NAME 13 / A-2.0 — INDICATES SIGN LOCATION
- EXIT — EXIT SIGN 14 / A-2.0
- ASSISTIVE LISTENING SIGNAGE 17 / A-2.0

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3, 8, & 10, CFC AND CCR TITLE 19 AND STATE OF CALIFORNIA TECHNICAL BULLETIN 117-2013.
2. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13.
3. ALL ADJACENT DISSIMILAR FINISH MATERIALS TO RECEIVE SEALANT PER MFR INSTRUCTIONS, U.N.O.
4. ALL EXPOSED STEEL, LOUVERS, ACCESS PANELS AND WALL GRILLES TO BE PAINTED TO MATCH ADJACENT SURFACE, U.N.O.
5. TOILET ROOM, TOILET ROOM VESTIBULES, AND FOOD SERVICE AREA WALLS AND CEILINGS NOT COVERED BY EITHER TILE OR F.R.P. TO HAVE MOISTURE RESISTANT GYPSUM BOARD, U.N.O.
6. COORDINATE FINISHES WITH MECHANICAL FOR PLUMBING FIXTURES.
7. AT COVE BASE, PROVIDE CONTINUOUS 3/8" RADIUS
8. ALL WALL BASE SHOULD BE INSTALLED USING WHOLE UNITS. NO PIECE SHALL BE SMALLER THAN 1'-0". PREFORMED CORNERS STANDARDIZED.
9. FOR MORE INFORMATION ON COLORS, MATERIALS, & FINISHES, REFER TO THIS SHEET
10. ALL FLOOR FINISHES SHALL BE STABLE, FIRM, & SLIP RESISTANT PER CBC SECTION 11B-302.1.
11. CARPET / CARPET TILE FLOORING SHALL BE SECURELY ATTACHED WITH FIRM BACKING AND PILE HEIGHT OF 1/2" MAX. PER CBC SECTION 11B-302.2. CARPET EDGES SHALL COMPLY WITH CBC SECTION 11B-303.
12. ALL FLOOR FINISHES SHALL EXTEND BELOW ACCESSIBLE WORKSTATIONS, SINKS, ETC. FOR THE REQUIRED TOE/KNEE CLEARANCE.
13. REFER TO CORRESPONDING SPECIFICATIONS FOR BURNING CHARACTERISTICS AND TESTING REQ.
14. CARPETS SHALL COMPLY WITH THE REQUIREMENTS OF THE ASTM STANDARD E648, AND HAVING A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662.
15. HIGH-DENSITY POLYETHYLENE (HDPE) PRIVACY PARTITIONS SHALL BE TESTED IN ACCORDANCE WITH NFPA 286 AND COMLY WITH CBC 803.1.1.1.

FINISH ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
CONC	CONCRETE
CPT	CARPET
EXP	EXPOSED
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PANEL
GWB	GYPSUM WALLBOARD
GWWB	WATER RESISTANT GWB
PES	PAINT - EGGSHELL
PL	PLASTIC LAMINATE
PF	PAINT, FLAT
PSG	PAINT, SEMI-GLOSS
RB	RUBBER BASE
SV	SHEET VINYL
TWP	TACKABLE WALL PANEL
VCT	VINYL COMPOSITION TILE

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:24:17 PM

DRAWN BY: DELTA # _____ DATE _____ DELTA # _____ DATE _____ DELTA # _____ DATE _____ DELTA # _____ DATE _____

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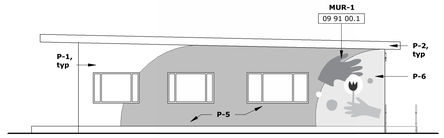
RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETIA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

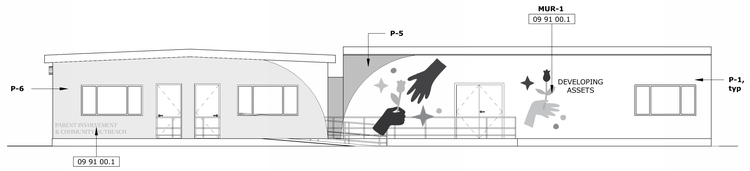
PROPOSED FLOOR PLAN, FINISHES

A-1.0

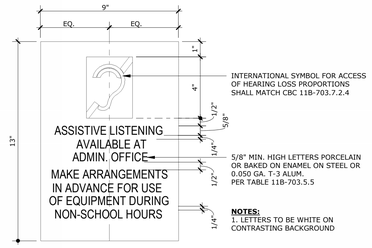
1-41-58



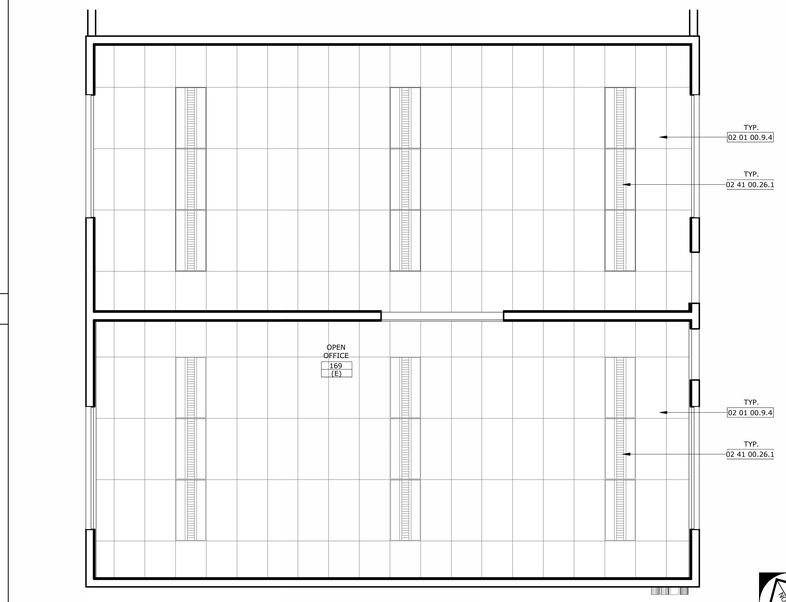
NORTH ELEVATION | SCALE: 1/8" = 1'-0" | 21



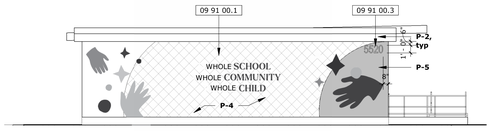
EAST ELEVATION | SCALE: 1/8" = 1'-0" | 22



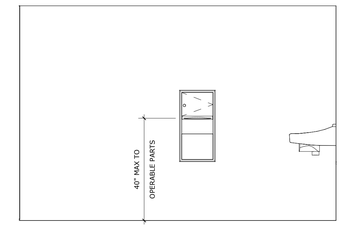
ASSISTIVE LISTENING SIGN | SCALE: 3" = 1'-0" | 17



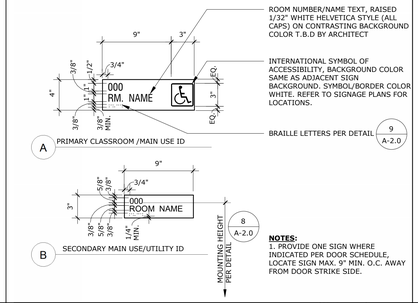
BUILDING 'B' REFLECTED CEILING PLAN | SCALE: 1/4" = 1'-0" | 7



SOUTH ELEVATION | SCALE: 1/8" = 1'-0" | 23



PAPER TOWEL HOLDER | SCALE: 1/2" = 1'-0" | 18



ROOM SIGNS | SCALE: 1 1/2" = 1'-0" | 13

CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SAN SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE.

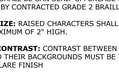
CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.

FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS , AND THEIR BACKGROUNDS MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH

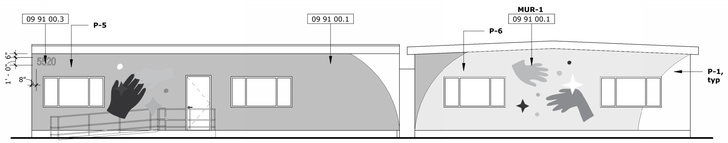
PROPORTIONS: VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I" . STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. SEE DETAIL 9 A-2.0

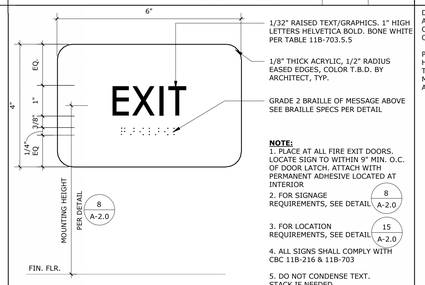
MOUNTING HEIGHT: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.



SIGNAGE REQUIREMENTS | SCALE: 1" = 1'-0" | 8



WEST ELEVATION | SCALE: 1/8" = 1'-0" | 24



EXIT SIGN | SCALE: 6" = 1'-0" | 14

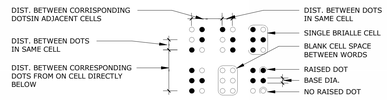
DIMENSION AND CAPITALIZATION PER 11B-703.3.1 - BRAILLE DOT SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATOR OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONNYMS

POSITION PER 11B-703.3.2 - BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM AND 1/2 INCH (12.7 MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

TABLE PER CBC 11B-703.3.1 - BRAILLE DIMENSIONS

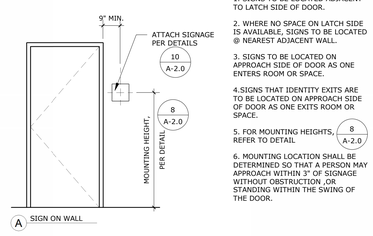
MEASURMENT RANGE	MIN. TO MAX IN INCHES
DOT BASE DIA.	.059 -.063
DISTANCE BETWEEN DOTS	.100
DISTANCE BETWEEN DOTS IN COORESPONDING CELLS	.300
DOT HEIGHT	.025 - .037
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	.395 - .400

1. MEASURED CENTER TO CENTER



BRAILLE TEMPLATE

BRAILLE REQUIREMENTS | SCALE: 1" = 1'-0" | 9



NOTES:
1. SIGNS TO BE LOCATED ADJACENT TO LATCH SIDE OF DOOR.

2. WHERE NO SPACE ON LATCH SIDE IS AVAILABLE, SIGNS TO BE LOCATED @ NEAREST ADJACENT WALL.

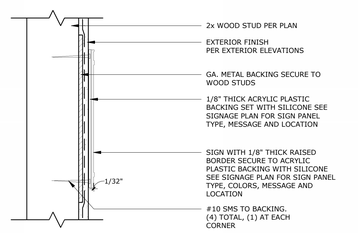
3. SIGNS TO BE LOCATED ON APPROACH SIDE OF DOOR AS ONE ENTERS ROOM OR SPACE.

4.SIGNS THAT IDENTITY EXITS ARE TO BE LOCATED ON APPROACH SIDE OF DOOR AS ONE EXITS ROOM OR SPACE.

5. FOR MOUNTING HEIGHTS, REFER TO DETAIL 8 A-2.0

6. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT OBSTRUCTION ,OR STANDING WITHIN THE SWING OF THE DOOR.

DOOR SIGN LOCATIONS | SCALE: 3/8" = 1'-0" | 15



SIGN ATTACH PLASTER WALL | SCALE: 3" = 1'-0" | 10

AGENCY APPROVAL
File No: ########/##-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

STAMPS

LICENSED ARCHITECT ROGER CLARKE Lic. C-21196 Exp. 10-31-27 STATE OF CALIFORNIA

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN OR EDGE OF SLAB, U.N.O.

KEYNOTES

02 01 00.9.4	EXISTING SUSPENDED ACOUSTICAL CEILING TO REMAIN, PROTECT IN PLACE
02 41 00.26.1	REMOVE AND REPLACE EXISTING 2X4 LIGHT FIXTURE
09 91 00.1	CUSTOM PAINTED GRAPHIC.
09 91 00.3	CUSTOM PAINTED GRAPHIC. ADDRESS IDENTIFICATION SIGN SHALL CONTRAST WITH THE PROPOSED CUSTOM PAINTED GRAPHIC.

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :1-41-58
1/9/2026 4:27:47 PM

DRAWN BY:
CHECKED BY:
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
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DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
5520 LUCRETTA AVE, MIRA LOMA, CA 91752
JURUPA UNIFIED SCHOOL DISTRICT

EXISTING CEILING PLAN

A-2.0

1-41-58

GENERAL NOTES

1. PROJECT RECORD DOCUMENTS. USE A COMPUTER AIDED DRAFTING (CAD) SYSTEM IN THE PREPARATION OF RECORD DRAWINGS FOR THIS PROJECT. ACCEPTABLE CAD SYSTEMS SHALL BE CAPABLE OF PRODUCING FILES COMPATIBLE WITH THE LATEST VERSION OF AUTOCAD IN DWG OR DXF FORMAT. OWNER'S CONSULTANT WILL FURNISH CAD BACKGROUNDS FOR USE BY THE CONTRACTOR AFTER CONSTRUCTION IS 90% COMPLETE EXCEPT WHERE PROHIBITED BY CONTRACT.

2. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.

3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY, WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

   AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
   INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
   NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
   AMERICAN STANDARD ASSOCIATION (ASA)
   NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
   CALIFORNIA ELECTRICAL CODE (CEC) - LATEST EDITION CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
   INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) ALL

   WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

4. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.

7. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

8. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS, OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION.

9. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.

10. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

11. FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

12. REVIEW AND COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING CONTRACT DOCUMENTS FOR DUCTS, LINES AND EQUIPMENT.

13. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.

14. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND/OR DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

15. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADEBEAMS, FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.

16. CONNECTIONS TO MECHANICAL, PLUMBING AND VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS:

    LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS.

    LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.

17. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS USED IN HVAC AIR-RETURN ENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.

18. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

19. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.

20. LOCATE ELECTRICAL EQUIPMENT AND BOXES, IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24"x24". ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.

21. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.

22. PROVIDE ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE, ASPHALT AND LANDSCAPING AS REQUIRED TO PERFORM THIS WORK. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK AND SHALL BE RESPONSIBLE FOR DETERMINING AND/OR VERIFYING ALL EXISTING UNDERGROUND SYSTEMS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.

23. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.

24. VERIFY TYPE OF CEILING SYSTEMS AND FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN THE SPECIFIC CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.

25. ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

26. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL.

    STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:

    OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER, IN THIS CASE, ONLY ONE OUTLET BOX NEED TO PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.

    OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.

    STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

    FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS

    3M CONTRACTOR PRODUCTS
    MINNEAPOLIS, MN
    3M TEST REPORT NO. 1167
    DATED AUGUST 21, 1987

    FSP FIRESTOP PUTTY PADS
    HEVI-DUTY NELSON PRODUCTS
    TULSA, OK

    FLAMESAFE FSP 1077 FIRESTOP PADS
    INTERNATIONAL PROTECTIVE COATINGS
    OAKHURST, NJ

    STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.

    UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

27. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT SHALL BE INCLUDED AS PART OF THIS CONTRACT.

28. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

29. MAXIMUM QUANTITY OF CONDUCTORS IN AN OUTLET OR JUNCTION BOX SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 314.16. IN NO CASE SHALL OUTLET OR JUNCTION BOXES CONTAIN MORE THAN THE FOLLOWING QUANTITY OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP.

4" SQ. BY 1-1/2" D =	9 CONDUCTORS
4" SQ. BY 2-1/8" D =	13 CONDUCTORS
4-11/16" SQ. BY 1-1/2" D =	11 CONDUCTORS
4-11/16" SQ. BY 2-1/8" D =	18 CONDUCTORS

    ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.

30. WHERE MULTIPLE HOMERUNS ARE INDICATED ON DRAWINGS REFERENCING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.

31. THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

    REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK-OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS; HOWEVER, LOCATIONS SHALL BE AS INDICATED ON ARCHITECTURAL ELEVATIONS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT WITHIN CASEWORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK TO ENSURE FINISHED INSTALLATION IS FLUSH WITH FACE OF SPLASH, CABINET, ETC.

    MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

32. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS. CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

33. A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR, ALTHOUGH NOT SHOWN ON CONDUIT RUNS, SHALL BE INSTALLED AND RUN CONTINUOUS FROM PANEL TO THE LAST DEVICE. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SUCH THAT IF DEVICE IS REMOVED THE CONTINUITY OF THE GROUND WILL NOT BE COMPROMISED/INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.

34. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR HOUSEKEEPING PADS AND EQUIPMENT FOUNDATIONS. PROVIDE SIZES REQUIRED FOR EQUIPMENT TO BE INSTALLED.

35. ALL CONDUCTORS SHALL BE UL LISTED COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.

36. REVIEW STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZES OF FOOTINGS AND GRADE BEAMS. REFERENCE STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR INSTALLATION OF CONDUIT THROUGH GRADE BEAMS AND FOOTINGS.

37. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING OWNERS ROOM NAMES AND NUMBERS DESIGNATIONS.

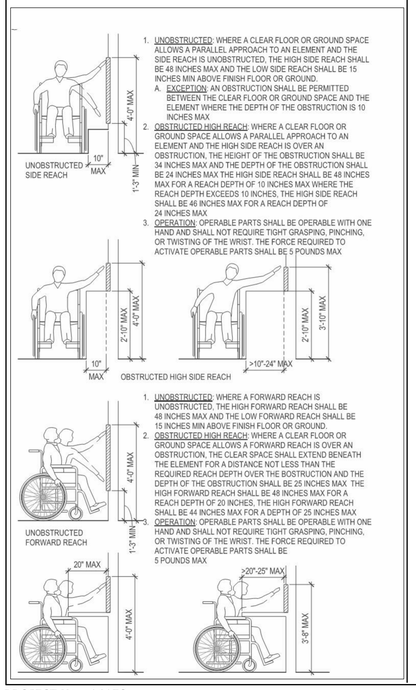
38. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.

39. REFER TO FIRE ALARM PLANS FOR ADDITIONAL POWER REQUIREMENTS REQUIRED FOR FIRE/SMOKE DAMPERS AND POWER SUPPLIES.

40. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXTERIOR WALL MOUNTED LIGHTS, SPEAKERS AND FIRE ALARM HORNS.

41. A DEDICATED NEUTRAL SHALL BE RUN FOR EACH BRANCH CIRCUIT WHERE A NEUTRAL IS REQUIRED TO COMPLY WITH CEC 210.4(B).

OBSTRUCTED HIGH FORWARD REACH | 2



DEMOLITION NOTES

1. IN GENERAL, THE DEMOLITION PLAN INDICATES ALL EXISTING EQUIPMENT TO BE REMOVED; HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN REMOVED WALLS, FLOORS OR CEILINGS, SHALL BE REMOVED/RELOCATED UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL VISIT THE SITE AND ALL AREAS INCLUDED IN THE DRAWINGS. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH THE CONTRACTOR WILL BE REQUIRED TO PERFORM HIS WORK.

3. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING, OR THE EXTENSION OF EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EQUIPMENT TO REMAIN.

4. ALL CIRCUIT NUMBERS AND EXISTING CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS AS REQUIRED.

5. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THIS POINT BACK TO LAST OUTLET REMAINING IN SERVICE.

6. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT-OFF AND CAPPED FLUSH WITH FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS UNLESS OTHERWISE NOTED.

7. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.

8. ALL ELECTRICAL FIXTURES, OUTLETS, DEVICES, ETC., THAT ARE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRING BACK TO THE LAST FIXTURE, OUTLET, DEVICE, ETC., REMAINING IN SERVICE.

9. EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".

10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND CONDUCTORS. CONTRACTOR SHALL TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.

11. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS (MINIMUM 20 AMP, SINGLE POLE) AS REFERENCED ON DRAWINGS. IDENTIFY EACH NEW CIRCUIT ON THE ASSOCIATED PANEL SCHEDULE DIRECTORY.

12. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS BE REUSED.

13. IN SOME INSTANCES, IT MAY BE NECESSARY FOR THE ELECTRICAL CONTRACTOR TO TEMPORARILY RELOCATE, REROUTE, ETC., EXISTING ELECTRICAL EQUIPMENT. THIS SHALL BE DONE SO THAT THE SYSTEMS IN ALL PHASES (THOSE COMPLETED AND THOSE YET TO BEGIN), ARE IN COMPLETE, OPERABLE, CONDITION AS CONSTRUCTION PROCEEDS THROUGH EACH PHASE.

14. WHERE NEW CIRCUITS ARE SHOWN CROSSING PHASING BOUNDARIES (I.E. CORRIDOR LIGHTING, ETC.) THE CONTRACTOR SHALL CONNECT ALL EQUIPMENT, FIXTURES, ETC., IN THE PHASE WHICH IS THEN UNDER CONSTRUCTION. CONTRACTOR SHALL STUB-OUT ALL REQUIRED CONDUIT AND WIRING ACROSS PHASE BOUNDARIES, THEN PICK UP AND EXTEND THESE CONDUIT RUNS WHEN CONSTRUCTION BEGINS IN THE ADJACENT PHASE.

15. DURING EACH PHASE OF DEMOLITION, ALL CIRCUITS FROM EXISTING PANELS WHICH FEED AREAS OUTSIDE THE BOUNDARIES OF THAT PHASE, SHALL BE MAINTAINED.

16. PANELS OR TERMINAL CABINETS WHICH ARE LOCATED IN A WALL THAT IS TO BE DEMOLISHED, SHALL REMAIN IN AN OPERATIVE CONDITION UNTIL ALL AREAS FED BY THE RELATED PANELS HAVE BEEN DEMOLISHED. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT REQUIRED TO TEMPORARILY SUPPORT PANELS. PANELS MAY BE TEMPORARILY FREESTANDING, MOUNTED IN TEMPORARY PORTION OF WALLS TO BE DEMOLISHED LATER, ETC., CHECK WITH ARCHITECT AND ENGINEER FOR APPROVAL OF SUPPORTS. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE AND RECONNECT ALL CIRCUITS ON A TEMPORARY BASIS IF THE PANELS, TERMINAL CABINETS, NURSE CALL TERMINAL CABINETS, ETC., CONFLICT WITH THE NEW CONSTRUCTION PHASES, AND THEN REMOVED AFTER COMPLETION OF PHASES.

17. ALL AREAS EXPOSED BY ABANDONED OUTLETS INCLUDING LIGHTS, RECEPTACLES, TELEPHONES, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.

18. ALL DEVICES REMOVED TO ACCOMPLISH DEMOLITION WORK SHALL BE REINSTALLED SIMILAR TO NEW WORK.

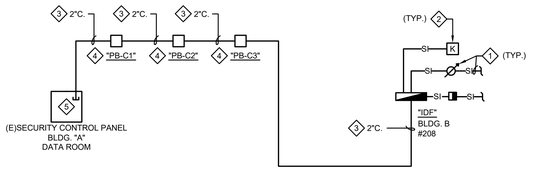
19. DO NOT REMOVE EXISTING FIRE ALARM DEVICES OR EQUIPMENT UNTIL NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED, APPROVED AND ACCEPTED BY THE LOCAL FIRE AUTHORITY HAVING JURISDICTION (AHJ). IN INSTANCES WHERE EXISTING FIRE ALARM DEVICES ARE REMOVED PRIOR TO ACCEPTANCE BY THE AHJ(S) A FIRE WATCH IS REQUIRED WHENEVER THE BUILDING (WHOLE OR PARTIAL) IS OCCUPIED PER CFC CHAPTER 33, CFC SECTION 901.7, & CCR TITLE 19 SECTION 1.14. CONTRACTOR TO INCLUDE FIRE WATCH AS PART OF BASE BID. FIRE WATCH COST SHALL NOT BE PAID FOR BY THE OWNER.

CODE ANALYSIS

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

1. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 2 - CALIFORNIA BUILDING CODE (CBC) - 2022 EDITION.
2. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 3 - CALIFORNIA ELECTRICAL CODE (CEC) - 2022 EDITION.
3. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 9 - CALIFORNIA FIRE CODE (CFC) - 2022 EDITION.

ACCESSIBLE DEVICE MOUNTING HEIGHTS | 1



NOTES:

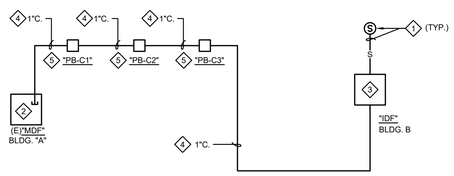
1. INTRUSION DETECTION DEVICES AND FEEDER. SEE DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES. ROUTE CABLES VIA CONDUIT AND J-HOOKS. REFER TO THE SPECIFICATION AS REQUIRED.
2. INTRUSION SYSTEM KEYPAD PER SPECIFICATIONS. COORDINATE EXACT KEYPAD LOCATION WITH THE SCHOOL DISTRICT IN THE FIELD PRIOR TO ROUGH-IN.
3. PULL QUANTITIES OF CABLES IN CONDUIT INDICATED TO ALLOW FOR ZONE IDENTIFICATION PER ROOM. SEE DRAWINGS FOR QUANTITY OF SPACES TO BE IDENTIFIED AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
4. PULLBOX PER SITE PLAN.
5. PROVIDE ALL ADDITIONAL COMPONENTS AND PROGRAMMING FOR A COMPLETE NETWORK SECURITY SYSTEM.

ALL CABLING SHALL BE ROUTED IN CONDUIT

COORDINATE ARMING SEQUENCE AND CONTROL ZONES OF ALL KEYPADS WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION.

INTRUSION DETECTION SYSTEM RISER DIAGRAM

NOT TO SCALE | 2



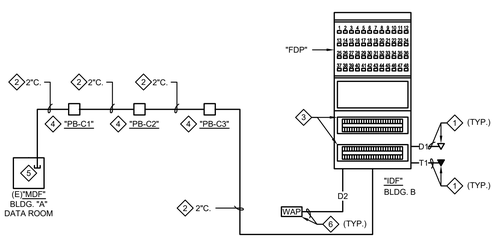
NOTES:

1. PUBLIC ADDRESS SPEAKER AND FEEDER PER PLANS. SEE DRAWINGS FOR LOCATIONS AND QUANTITIES. SPEAKER CABLE SHALL BE EQUAL TO WEST PENN #291.
2. EXISTING P.A. SYSTEM. PROVIDE ADDITIONAL COMPONENTS (AMPS, MODULES, ETC.) AND PROGRAMMING AS REQUIRED TO ACCOMMODATE ADDITIONAL SPEAKERS.
3. TERMINAL BACKBOARD AT IDF FOR PUNCH DOWN OF CABLE.
4. PULL QUANTITY OF SPEAKER CABLES AS REQUIRED TO ALLOW FOR EACH SPEAKER TO OPERATE. CABLES TO MATCH EXISTING TYPE. SEE DRAWINGS FOR QUANTITY OF SPEAKERS. CABLE SHALL BE EQUAL TO WEST PENN #AQC293.
6. PULLBOX PER SITE PLAN.

ALL PUBLIC ADDRESS CABLES SHALL BE PUNCHED DOWN, CROSS CONNECTED AND TESTED.

PUBLIC ADDRESS SYSTEM RISER DIAGRAM

NOT TO SCALE | 2



NOTES:

1. ROUTE MINIMUM OF (1) CATEGORY 6 RATED 24 GA. 4 PAIR UTP CABLE TO EACH DATA JACK/TELEPHONE JACK AND TERMINATE ON CATEGORY 6 RATED JACK. SEE DRAWINGS FOR QUANTITIES AND LOCATIONS AND SPECIFICATIONS FOR REQUIREMENTS ALL CABLE SHALL BE RUN CONTINUOUS FROM JACK TO IDF WITH NO SPLICES VIA CONDUITS AND J-HOOKS.
2. ROUTE (1) 6 STRAND SINGLE-MODE (6SM) FIBER OPTIC CABLE (F.O.C.) FROM "MDF" TO EACH "IDF" INDICATED F.O.C. SHALL BE TERMINATED ON FIBER DISTRIBUTION PANELS "FDP". PROVIDE 6'-0" F.O.C. PATCH CORDS FOR QUANTITY OF TERMINATED F.O.C.
3. CATEGORY 6 RATED PATCH PANELS WITH NUMBERS OF PORTS AND 6'-0" PATCH CORDS REQUIRED TO TERMINATE ALL CABLES INDICATED ON DRAWINGS PLUS 25% SPARE CAPACITY.
4. PULLBOXES PER SITE PLAN.
5. PROVIDE ALL REQUIRED MODIFICATIONS AT EXISTING "MDF" RACK(S) REQUIRED TO INSTALL ALL NEW CABLING INDICATED. PROVIDE ALL REQUIRED COMPONENTS, PROGRAMMING, ETC. FOR A COMPLETE SYSTEM.
6. ROUTE MINIMUM OF (2) CATEGORY 6 RATED 24 GA. 4 PAIR UTP CABLE TO EACH WIRELESS ACCESS POINT. SEE DRAWINGS FOR QUANTITIES AND LOCATIONS.

VOICE/DATA SYSTEM RISER DIAGRAM

NOT TO SCALE | 1

ELECTRICAL ABBREVIATIONS

AF	AMPERE FUSE RATING
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTED CAPACITY RATING (RMS SYMMETRICAL MINIMUM)
AM	AMMETER
AMP, A	AMPERES
APPR	APPROVED
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OR BREAKER
AUTO	AUTOMATIC
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BRD, BD	BOARD
BFC	BELOW FINISHED CEILING
BKR	BREAKER
C.	CONDUIT
CAB	CABINET
CAT	CATEGORY
CC	CENTER TO CENTER
cd	CANDELA
CHLOR	CHLORINE, CHLORINATION
CKT	CIRCUIT
CMH	COMMUNICATION MANHOLE
C.O.	CONDUIT ONLY
COMPT	COMPARTMENT
COMPR	COMPRESSOR
CPB	COMMUNICATION PULLBOX
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY (MAGNETICALLY HELD U.N.O.)
CSFM	CALIFORNIA STATE FIRE MARSHALL
CT	CURRENT TRANSFORMER
CU	COPPER
D.C.A.	DETECTOR CHECK ASSEMBLY
DISC.	DISCONNECT
DISTR	DISTRIBUTION
DWG	DRAWING
ELEV	ELEVATION
EMERG, EM	EMERGENCY
ENCL	ENCLOSURE
EQPT	EQUIPMENT
EXH	EXHAUST
E	EXISTING
FAA	FIRE ALARM ANNUNCIATOR
FDR	FEEDER
FF	FINISHED FLOOR
FG	FINISHED GRADE
FS	FLOW SWITCH
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FOC	FIBER OPTIC CABLE
FUT	FUTURE
FUP	FUSE, CPT PRIMARY
FUS	FUSE, CPT SECONDARY
GND, GRD	GROUND
HH	HAND HOLE
HOA	HAND-OFF-AUTOMATIC
HTR	HEATER
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
ICPB	INTERCEPT COMMUNICATION PULLBOX
INC	INCANDESCENT
IND	INDICATION
INSTR	INSTRUMENT
IPPB	INTERCEPT POWER PULLBOX
ISC	SHORT CIRCUIT CURRENT
J.B.	JUNCTION BOX
K	THOUSAND (KILO)
KV	KILOVOLTS
KW	KILOWATTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KWH	KILOWATT HOURS
KWHD	KILOWATT HOUR DEMAND METER
LCP	LIGHTING CONTROL PANEL
LOS	PUSH BUTTON WITH "LOCK-OUT-STOP"
LS	LIMIT SWITCH
LT, LTS	LIGHT, LIGHTS
LTG	LIGHTING
MA	MILLIAMPS
MAN	MANUAL
MAG	MAGNETIC
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MS	MANUAL MOTOR STARTER
MIN	MINUTES, MINIMUM
MOV	MOTOR OPERATED VALVE, METAL OXIDE VARISTER
MT, MTD, MTG	MOUNT, MOUNTED, MOUNTING
N.A.P.	NEUTRALIZATION ALARM PANEL
NO, NOS	NUMBER, NUMBERS
NP	NAMEPLATE
NTS	NOT TO SCALE
OC	ON CENTER
OFOI	OWNER FURNISHED OWNER INSTALLED
OL	OVERLOAD
PB	PULLBOX
PIV	POST INDICATOR VALVE
PMH	POWER MANHOLE
PNL	PANEL
PNLBD	PANELBOARD
POS	POSITION
PPB	POWER PULLBOX
PRI	PRIMARY
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PW	PART WINDING
PWR	POWER
REC	RECEPTACLE
RECPTS	RECEPTACLES
REQD	REQUIRED
SA	STATUS ANNUNCIATOR
SCH	SCHEDULE
SEC	SECONDS, SECONDARY
SECT	SECTION
SEL SW	SELECTOR SWITCH
SEQ	SEQUENCE
SHLD	SHIELDED
SHT	SHEET
SIG	SIGNAL
SM	START CONTACTOR COIL
SPECS	SPECIFICATIONS
SP HTR	SPACE HEATER
ST	SHUNT TRIP
STA	STATION
STD	STANDARD
STL	STEEL
STR	STARTER
SV	SOLENOID VALVE
SW	SWITCH
SYS	SYSTEM
TACH	TACHOMETER
TDOD	TIME DELAY ON DE-ENERGIZATION
TDOE	TIME DELAY ON ENERGIZATION
TEMP	TEMPERATURE
TERM	TERMINAL
THERM	THERMOSTAT
TR	TIME DELAY RELAY
TS	TAMPER SWITCH
TSP	TWISTED SHIELDED PAIR
TSTAT	THERMOSTAT
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UGPS	UNDERGROUND PULL SECTION
UTP	UNSHIELDED TWISTED PAIR
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS
VM	VOLTMETER
VS	VOLTMETER SWITCH
W	WATTS
WHM	WATT HOUR METER
WP	WEATHERPROOF
WPL	WEATHERPROOF LOCKING
XFMR	TRANSFORMER
XMTR	TRANSMITTER

FOR FIRE ALARM LEGEND SEE SHEET E3.1

ELECTRICAL SYMBOLS LIST

(E) — EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.

(R) — EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.

(RR) — EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.

(ER) — RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.

—E— EXISTING CONDUIT RUN TO REMAIN. EXISTING CONDUCTORS TO REMAIN UNLESS NOTED OTHERWISE ON DRAWINGS.

—EA— EXISTING CONDUIT RUN TO BE ABANDONED. REMOVE CONDUCTORS AND CAP ENDS OF CONDUIT.

—EX— EXISTING CONDUIT RUN TO BE REWIRED. REFER TO PLANS FOR WIRING REQUIREMENTS.

—R— EXISTING CONDUIT AND WIRE RUN TO BE COMPLETELY DISCONNECTED AND REMOVED BACK TO LAST REMAINING OUTLET OR DEVICE.

—R—E— "X" INDICATES APPROXIMATE POINT OF INTERCEPTION OF EXISTING CONDUIT RUN. CONDUIT TO BE REMOVED AT "R" SIDE OF "X". REMOVE ALL CONDUCTORS PRIOR TO CUTTING CONDUIT. EXACT LOCATION OF ALL CONDUITS SHALL BE FIELD VERIFIED.

——— CONDUIT RUN CONCEALED IN WALLS OR UNDER FLOORS.

——— CONDUIT RUN EXPOSED.

——— CONDUIT RUN UNDERGROUND.

CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.

CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND MINIMUM OF ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250.122, BUT NOT SMALLER THAN #12. WHERE ISOLATED GROUND RECEPTACLES ARE INDICATED, PROVIDE ADDITIONAL #12 GROUND WIRE IN CONDUIT RUNS, CONNECTED FROM ISOLATED GROUND BUS IN PANEL TO DEVICE.

B-1,3 — CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.

SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.

RECESSED BRANCH CIRCUIT PANELBOARD.

PNL — PANEL DESIGNATION.

SURFACE MOUNTED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.

RECESSED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.

J — JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.

J — JUNCTION BOX FLUSH FLOOR MOUNTED.

J — JUNCTION BOX PEDESTAL TYPE FLOOR MOUNTED.

M — THREE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR. NUMERAL IN PLACE OF "M" INDICATES HORSEPOWER. (SINGLE LINE DIAGRAM ONLY).

100A 3P — MOLDED CASE CIRCUIT BREAKER AND NUMBER OF POLES AS INDICATED. "A" INDICATES TRIP RATING. SUBSCRIPT INDICATES TYPE.

NO SUBSCRIPT	THERMAL MAGNETIC
NA	NON-AUTOMATIC
MO	MAGNETIC ONLY
CL	CURRENT LIMITING
SS	SOLID STATE

100AS 90AF 3P — FUSED SWITCH. "AS" INDICATES AMPERE SWITCH RATING, "AF" INDICATES AMPERE FUSE RATING, NUMBER OF POLES AS INDICATED.

ENCLOSED VOLTAGE TRANSFORMER PER SPEC'S. COPPER WOUND, DRY TYPE, U.N.O.

M — UTILITY METER SOCKET, WITH C.T.'S, CLIPS, ETC., PER SERVING UTILITY COMPANY.

GROUND, "GRD", "GND".

GF — BREAKER EQUIPPED WITH THE GROUND FAULT PROTECTION

GFI — "GROUND FAULT INTERRUPTER"

3cs Sa — SWITCH. LOWER CASE LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. CAPITAL SUPERSCRIPT INDICATES SWITCH TYPE. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

NO SUPERSCRIPT	-	SINGLE POLE SWITCH
2	-	DOUBLE POLE
3	-	THREE WAY
4	-	FOUR WAY
I	-	ILLUMINATED HANDLE
K	-	KEYED SWITCH
LC	-	LOCKABLE COVER
M	-	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
MC	-	MOMENTARY CONTACT
P	-	PILOT LIGHT
PR	-	PRESS TYPE
TP	-	THREE POSITION
T	-	TIMER-0-4 HR ROTARY WITH HOLD-ON FEATURE
L	-	LOCKABLE POSITION TOGGLE SWITCH

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O. "C" ADJACENT SYMBOL INDICATES DEVICE MOUNTED ON CEILING TYPICAL UNLESS NOTED OTHERWISE. "IG" ADJACENT INDICATES ISOLATED GROUND TYPE RECEPTACLE.

DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O. "WP" ADJACENT INDICATES METAL COVERED PAD-LOCKABLE WEATHERPROOF COVER. "WPL" ADJACENT INDICATES RECESSED METAL HINGED WEATHERPROOF LOCKING COVER EQUAL TO LEGRAND-PASS & SEYMOUR #4600 SERIES & ALL MOUNTING HARDWARE.

TWO DUPLEX GROUNDING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

TWO DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLES IN 3-GANG BOX WITH 2-GANG RING AND PLATE. 20A., 125 VOLT 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

DOOR CONTACT SWITCH FOR SECURITY SYSTEM ACCESS POINT. FLUSH MOUNTED IN DOOR JAMB.

SECURITY SYSTEM MOTION SENSOR MOUNTED AT +96".

K — DIGITAL KEY PAD ARM/DISARM FOR SECURITY SYSTEM. MOUNT PER DETAIL #1 ON E0-0.1 U.N.O.

SI — SECURITY SYSTEM CONDUIT. 3/4" CONDUIT MINIMUM WITH WIRING.

TWO 20 AMP DUPLEX RECEPTACLES IN SPECIAL FLOOR BOX.

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE, SPLIT WIRED WITH LOWER OUTLET SWITCHED. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

DUPLEX GROUNDING TYPE USB CHARGING RECEPTACLE, 20 AMP 125 VOLT, 2 POLE, 3 WIRE. EQUIPPED WITH (2) TYPE-A USB PORTS. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

A L — SPECIAL PURPOSE OUTLET MOUNTED IN FLUSH WALL BOX. LETTER INDICATES TYPE. "L" ADJACENT INDICATES TWIST LOCK TYPE

A	-	NEMA TYPE 5-30R (125 VOLT, 1 PHASE, 30 AMP)
B	-	NEMA TYPE 5-50R (125 VOLT, 1 PHASE, 50 AMP)
C	-	NEMA TYPE 6-20R (250 VOLT, 1 PHASE, 20 AMP)
D	-	NEMA TYPE 6-30R (250 VOLT, 1 PHASE, 30 AMP)
E	-	NEMA TYPE 6-50R (250 VOLT, 1 PHASE, 50 AMP)
F	-	NEMA TYPE 11-20R (250 VOLT, 3 PHASE, 20 AMP)
G	-	NEMA TYPE 11-30R (250 VOLT, 3 PHASE, 30 AMP)
H	-	NEMA TYPE 11-50R (250 VOLT, 3 PHASE, 50 AMP)
J	-	NEMA TYPE 14-20R (125/250 VOLT, 1 PHASE, 20 AMP)
K	-	NEMA TYPE 14-30R (125/250 VOLT, 1 PHASE, 30 AMP)
M	-	NEMA TYPE 14-50R (125/250 VOLT, 1 PHASE, 50 AMP)

100AS — NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING UNLESS NOTED OTHERWISE ON DRAWINGS.

FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING. "AF" INDICATES FUSE AMPERE RATING.

VFD II — MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES NEMA STARTER SIZE. ADDITIONAL SUBSCRIPTS INDICATE STARTER TYPE AND SIZE. (TYPICAL FOR ALL MAGNETIC STARTER SYMBOLS.)

NO SUBSCRIPT	-	FULL VOLTAGE, NON REVERSING
PR	-	PRIMARY RESISTOR REDUCED VOLTAGE
AT	-	AUTOTRANSFORMER REDUCED VOLTAGE
WD	-	WYE-DELTA REDUCED VOLTAGE
PW	-	PART WINDING REDUCED VOLTAGE
SS	-	SOLID STATE REDUCED VOLTAGE
REV	-	REVERSING TYPE
2S	-	TWO SPEED
2W	-	TWO WINDINGS
CH	-	CONSTANT HORSEPOWER
CT	-	CONSTANT TORQUE
VT	-	VARIABLE TORQUE
VFD	-	VARIABLE FREQUENCY DRIVE

COMBINATION MAGNETIC MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH. TYPE AS INDICATED ABOVE.

P II — COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH. TYPE AS INDICATED ABOVE.

COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER. TYPE AS INDICATED ABOVE.

COMBINATION MAGNETIC MOTOR STARTER AND MOTOR CIRCUIT PROTECTOR. TYPE AS INDICATED ABOVE.

SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER

WM — SURFACE NON-METAL RACEWAY FOR COMMUNICATIONS (AND POWER WHERE CALLED FOR ON DRAWINGS). WIREMOLD 5400 SERIES, WITH ALL OFFSETS, ANCHORING ATTACHMENTS, ENDCAPS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. SOLID SQUARE INDICATES WIREMOLD DROP FROM CEILING.

PM — SURFACE MOUNTED NON-METAL PLUGMOLD RACEWAY WITH 20 AMP GROUNDING DUPLEX ISOLATED GROUND RECEPTACLES AT 12" ON CENTER. (2 CKT. TYPE - HUBBELL #PT206212)

WB — WIRE BASKET CABLE SUPPORT SYSTEM "B-LINE" #WB424 (MOUNTED IN CEILING SPACE). INCLUDING ALL MOUNTING HARDWARE, CLAMPS, SUPPORTS, OFFSETS, ETC. SUBMIT COMPLETE INSTALLATION SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

S — PUBLIC ADDRESS SPEAKER, BACKBOX, AND GRILL RECESSED MOUNT FLUSH WITH SURFACE.

S — PUBLIC ADDRESS SPEAKER, BACKBOX, AND GRILL WALL MOUNTED TYPE. MOUNT AT +8'-0" U.N.O.

S — WEATHERPROOF PUBLIC ADDRESS SPEAKER, BACKBOX, AND VANDAL RESISTANT GRILL RECESSED MOUNT FLUSH WITH SURFACE. MOUNT AT +96".

—S— PUBLIC ADDRESS SYSTEM CONDUIT. 3/4" CONDUIT MINIMUM WITH WIRING.

WALL MOUNTED BATTERY POWERED CONTROLLED CLOCK (AMERICAN TIME #E56BADD304). MOUNT AT +96" U.N.O.

—C— CLOCK SYSTEM CONDUIT. 3/4" CONDUIT MINIMUM WITH WIRING.

W — TELEPHONE OUTLET AND HANDSET WITH RJ-45 JACK. MOUNT PER DETAIL #1 ON E0.1 U.N.O. "W" ADJACENT INDICATES WALL MOUNTED AT SWITCH HEIGHT PER DETAIL #1 ON E0.1 U.N.O. PROVIDE 1"CONDUIT MINIMUM STUBBED UP INTO CEILING SPACE.

TELEPHONE OUTLET AND HANDSET WITH RJ-45 JACK. MOUNT ABOVE COUNTER PER DETAIL #1 ON E0.1 U.N.O.

—T1— VOICE SYSTEM CONDUIT RUN. NUMERAL ADJACENT TO "T" INDICATES QUANTITY OF 4 PAIR UTP CAT.6 CABLES IN RUN. PROVIDE 1" CONDUIT FOR 1-8 PAIRS OF CABLE AND 1 1/2" CONDUIT FOR 9-16 PAIRS OF CABLE.

DATA OUTLET WITH CAT 6 RATED RJ-45 JACK. MOUNT PER DETAIL #1 ON E0.1 U.N.O. NUMERAL ADJACENT TO OUTLET INDICATES QUANTITY OF RJ-45 JACKS. PROVIDE 1"CONDUIT MINIMUM STUBBED UP INTO CEILING SPACE.

DATA OUTLET WITH CAT 6 RATED RJ-45 JACK. MOUNT ABOVE COUNTER PER DETAIL #1 ON E0.1 U.N.O.

DATA OUTLET WITH CAT 6 RATED RJ-45 JACK. MOUNT IN SPECIAL FLUSH FLOOR BOX. NUMERAL ADJACENT TO OUTLET INDICATES OF RJ-45 JACKS.

—D1— DATA SYSTEM CONDUIT RUN. NUMERAL ADJACENT TO "D" INDICATES QUANTITY OF 4 PAIR UTP CAT.6 CABLES IN RUN. PROVIDE 1" CONDUIT FOR 1-8 PAIRS OF CABLE AND 1 1/2" CONDUIT FOR 9-16 PAIRS OF CABLE.

COMBINATION VOICE/DATA OUTLET WITH (2) CAT.6 RATED RJ-45 JACKS. MOUNT PER DETAIL #1 ON E0.1 U.N.O. PROVIDE A 4S DEEP BOX WITH 2 GANG RING AND PLATE. PROVIDE 1"C. MINIMUM STUBBED UP INTO CEILING SPACE.

COMBINATION VOICE/DATA OUTLET WITH (2) CAT.6 RATED RJ-45 JACKS. MOUNT ABOVE COUNTER PER DETAIL #1 ON E0.1 U.N.O.

COMBINATION VOICE/DATA OUTLET WITH (2) CAT.6 RATED RJ-45 JACKS. FLUSH MOUNT IN SPECIAL FLOOR BOX.

—TD— VOICE/DATA SYSTEM CONDUIT RUN. NUMERAL ADJACENT TO "TD" INDICATES QUANTITY OF 4 PAIR UTP CAT.6 CABLES IN RUN. PROVIDE 1" CONDUIT FOR 1-8 PAIRS OF CABLE AND 1 1/2" CONDUIT FOR 9-16 PAIRS OF CABLE.

WAP — CEILING MOUNTED WIRELESS ACCESS POINT. ROUTE MINIMUM 3/4"C. WITH (2) CAT 6 RATED CABLES TO BUILDING MDF/IDF.

CLOSED CIRCUIT TELEVISION SYSTEM CAMERA OUTLET BOX AND BLANK COVER PLATE. ROUTE 1"C. FROM OUTLET BOX TO BUILDING MDF/IDF. MOUNT OUTLET BOX AT 10'-6" U.N.O.

REGISTERED PROFESSIONAL ENGINEER — DAVID NISING PARK — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

AGENCY APPROVAL
File No.: ########-#-#######

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

DCGR ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE: CHILDREN & FAMILY SERVICES WEST PORTABLE

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FINISH	LAMP(S)	REMARKS	MANUFACTURER & NO.
9 E4.1 / XS 124	POLE MOUNTED LED AREA LIGHT FIXTURE WITH (1) DIE CAST ALUMINUM HOUSING HEADS AND TYPE 2M OPTICS. MINIMUM 12,040 LUMEN OUTPUT. UL LISTED FOR WET LOCATION. PROVIDE COMPLETE WITH 20'-0" SQUARE ALUMINUM POLE.	COLOR BY ARCHITECT	LED 4000K	TYPE "XS": BUG RATING SHALL BE A MINIMUM OF B2, U0, G2.	LITHONIA LIGHTING #DSX1-LED-P4-40K-T3M-MVOLT-SPA-DDBXD EQUAL BY MCGRAW-EDISON

ACCEPTANCE TESTING

MANDATORY ACCEPTANCE TESTING PER TITLE 24, PART 6 SECTION 130.4 SHALL BE AS FOLLOWS:

THE CONTRACTOR SHALL PROVIDE THE ACCEPTANCE TESTING AGENT. THE ACCEPTANCE TESTING AGENT SHALL BE A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (CLCATT). THE CLCATT SHALL PERFORM ALL LIGHTING CONTROL INSTALLATION CERTIFICATION AS REQUIRED BY TITLE 24, PART 6 SECTION 130.4 (a) AND 130.4 (b). THIS SHALL INCLUDE, BUT NOT LIMITED TO, FILLING OUT, SIGNING AND SUBMITTING ALL REQUIRED DOCUMENTATION.

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE LIGHTING CONTROL SYSTEMS WITH THE CLCATT PRIOR TO INSTALLATION.

LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

REFER TO LIGHTING PLANS FOR QUANTITY AND LOCATION OF ALL LIGHTING CONTROL COMPONENTS AND LIGHT FIXTURES; IDENTIFICATION OF LIGHT FIXTURE AND DEVICE SWITCH LEG IDENTIFICATION. REFER TO THE LIGHTING CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. LIGHTING CONTROLS SHALL BE INSTALLED IN COMPLIANCE WITH 2022 CALIFORNIA ENERGY CODE (CEC) SECTION 130.1 MINIMUM.

OUTDOOR LIGHTING – TIMECLOCK PROGRAMMING SHALL BE PROVIDE BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL RECEIVE OUTDOOR LIGHTING SCHEDULE FROM THE OWNER AND PROGRAM SYSTEM ACCORDINGLY.

THE AUTOMATIC SCHEDULING CONTROL IS CAPABLE OF REDUCING OUTDOOR LIGHTING POWER BY 50-90% DURING PRE-PROGRAMMED UNOCCUPIED PERIODS.

THE AUTOMATIC SCHEDULING CONTROL SHALL ALLOW A MINIMUM OF 2 NIGHT TIME PERIODS WITH INDEPENDENTLY PROGRAMMED LIGHTING LEVELS.

THE AUTOMATIC SCHEDULING CONTROLS MAY INCLUDE AN OVERRIDE FUNCTION FOR A MAXIMUM OF 2 HOURS WHEN IT IS IN A SCHEDULED DIM OR OFF STATE.

LIGHT FIXTURES WITH MOTION SENSOR CONTROL SHALL HAVE THEIR POWER REDUCED BY 50 PERCENT 15 MINUTES AFTER THE AREA HAS BEEN VACATED. FIXTURES SHALL BE RETURNED TO FULL BRIGHT WHEN THE AREA BECOMES OCCUPIED.

LIGHTING FIXTURE NOTES

1. CONTRACTOR SHALL VERIFY ALL MOUNTING REQUIREMENTS FOR ALL LIGHTING FIXTURES, PRIOR TO SHOP DRAWINGS SUBMITTALS. IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE THE MOUNTING HARDWARE THAT IS COMPATIBLE WITH THE CONFIGURATION OF THE LIGHTING LAYOUT.
2. FOR LIGHTING FIXTURE VOLTAGE RATINGS, THE CONTRACTOR IS RESPONSIBLE TO VERIFY FIXTURE AND DRIVER VOLTAGES WITH BRANCH CIRCUIT WIRING.
3. LAMP COLOR FOR LED FIXTURES SHALL BE 4000°K U.N.O.
4. LENSES OF ALL LED LIGHTING FIXTURES SHALL NOT BE LESS THAN 0.125" THICK, EQUAL TO KSH-K12 WHERE APPLICABLE.
5. FIXTURES SHALL BE U.L. LISTED FOR INTENDED LOCATION.
6. FINISH OF FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
7. ALL LED LIGHT FIXTURES SHALL BE TESTED TO LM-79 AND LM-80 IES STANDARDS.

REGISTERED PROFESSIONAL ENGINEER – No. E 16592 – ELECTRICAL – STATE OF CALIFORNIA

LICENSED ARCHITECT – TODD CLARKE – No. C-41386 – Exp. 10-31-27 – STATE OF CALIFORNIA

STAMPS

AGENCY APPROVAL
File No.: ########-#-#######

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

DCGR ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :14158
9/18/2024 9:14:17 AM

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RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
4850 PEDLEY ROAD, JURUPA VALLEY, CA 92509
JURUPA UNIFIED SCHOOL DISTRICT

LIGHTING FIXTURE SCHEDULE AND NOTES

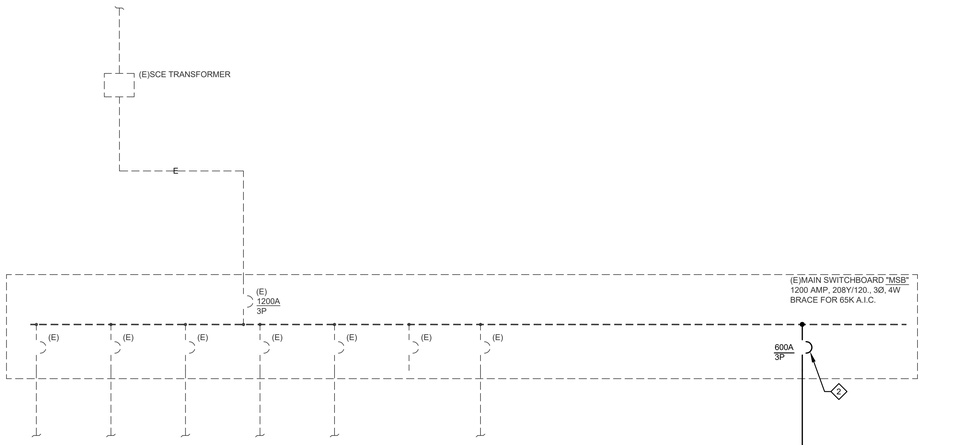
E-0.3

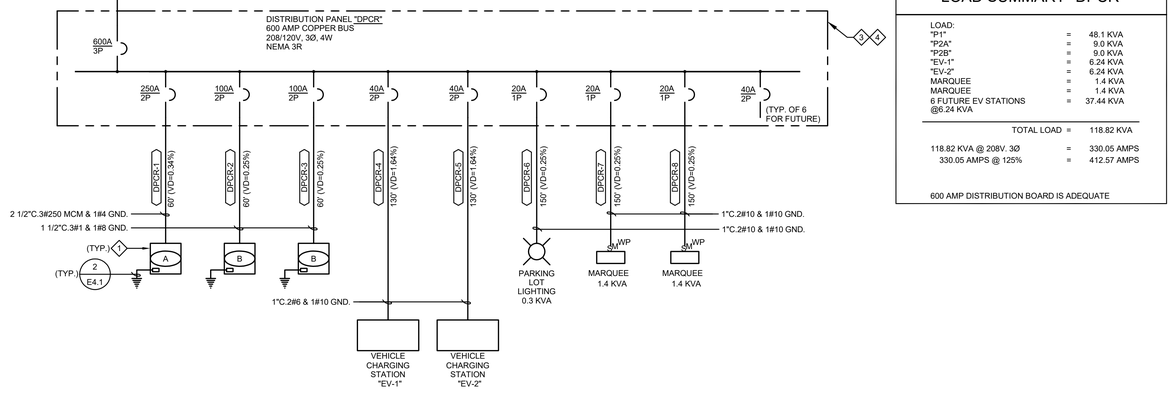
14158

P:\JUSD Sky Country ES Modular Bldg and Parking Addition #24068\Dwgs\E\24068E03.dwg 12-23-25-4:13 PM

SHEET NOTES

1. PANELBOARD FURNISHED WITH PORTABLE BUILDING.
2. PROVIDE AND INSTALL NEW CIRCUIT BREAKERS IN (E) SWITCHBOARD AS REQUIRED. CIRCUIT BREAKER SHALL MATCH (E) TYPE AND A.I.C. RATING. REWORK/REMOVE (E) CIRCUIT BREAKER CONFIGURATION TO ALLOW INSTALLATION AS INDICATED.
3. FURNISH GROUND BUS IN EACH BRANCH CIRCUIT PANEL, ALL PANELS 480/277 VOLT AND 208/120 VOLT, SHALL HAVE THE FEEDER EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO GROUND BUS. FURNISH EQUIPMENT GROUNDING CONDUCTOR IN EVERY FEEDER AND BRANCH CIRCUIT, RUN TO LAST OUTLET AND CONNECT TO BUS. CONDUIT GROUND IS NOT ACCEPTABLE AS A SUBSTITUTE. TYPICAL ALL PANELS, SWITCHBOARDS, DISTRIBUTION PANELBOARDS, AND SWITCHGEAR.
4. CONFIRM FEED POINT/CONFIGURATION PRIOR TO ORDERING NEW PANEL.





LOAD SUMMARY "DPCR"

LOAD:		
"P1"	=	48.1 KVA
"P2A"	=	9.0 KVA
"P2B"	=	9.0 KVA
"EV-1"	=	6.24 KVA
"EV-2"	=	6.24 KVA
MARQUEE	=	1.4 KVA
MARQUEE	=	1.4 KVA
6 FUTURE EV STATIONS @6.24 KVA	=	37.44 KVA
TOTAL LOAD	=	118.82 KVA
118.82 KVA @ 208V. 3Ø	=	330.05 AMPS
330.05 AMPS @ 125%	=	412.57 AMPS

600 AMP DISTRIBUTION BOARD IS ADEQUATE

ELECTRICAL VEHICLE CONDUCTOR NOTE:

CONDUCTORS FEEDING VEHICLE CHARGING STATIONS SHALL HAVE A MINIMUM TEMPERATURE RATING OF 75 DEGREE C.

SINGLE LINE DIAGRAM LEGEND

——— NEW WORK

– – – – – EXISTING

REGISTERED PROFESSIONAL ENGINEER — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — No. C-41196 — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

AGENCY APPROVAL
File No: ########## - ########

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CHILDREN & FAMILY SERVICES WEST PORTABLE
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JURUPA UNIFIED SCHOOL DISTRICT

SINGLE LINE DIAGRAM

E-0.4

14158

P:\JUSD Sky Country ES Modular Bldg and Parking Addition #24068\Dwgs\E\24068E04.dwg 12-23-25-4:13 PM

ELECTRICAL GENERAL SPECIFICATIONS

DIVISION 26

GENERAL ELECTRICAL SPECIFICATIONS

1.0 WORK INCLUDED:

A. THIS SPECIFICATION SHALL APPLY TO ALL PHASES OF WORK HEREIN AFTER SPECIFIED, SHOWN ON DRAWINGS, OR AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS FOR THIS PROJECT. WORK REQUIRED UNDER THIS SPECIFICATION, IS NOT LIMITED TO JUST THE ELECTRICAL DRAWINGS - REFER TO ARCHITECTURAL, STRUCTURAL, LANDSCAPE, AND MECHANICAL/PLUMBING DRAWINGS, AS WELL AS ALL OTHER DRAWINGS APPLICABLE TO THIS PROJECT, WHICH DESIGNATE THE SCOPE OF WORK TO BE ACCOMPLISHED. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM THAT INCLUDES ALL DOCUMENTS THAT ARE A PART OF THE CONTRACT.

1. WORK INCLUDED. FURNISH LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION, CONNECTIONS, TESTING, AND ADJUSTMENT OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR SHOWN OR NOTED ON DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.

2. THE ELECTRICAL WORK INCLUDES INSTALLATION OR CONNECTION OF CERTAIN MATERIALS AND EQUIPMENT FURNISHED BY OTHERS. VERIFY INSTALLATION DETAILS, INSTALLATION AND ROUGH-IN LOCATIONS FROM THE ACTUAL EQUIPMENT OR FROM THE EQUIPMENT SHOP DRAWINGS.

B. ELECTRICAL DRAWINGS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, AND ARE INTENDED TO CONVEY THE SCOPE OF WORK, INDICATING INTENDED GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. FOLLOW DRAWINGS IN LAYING OUT WORK AND VERIFY SPACES FOR INSTALLATION OF MATERIALS AND EQUIPMENT BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED.

1.1 QUALITY ASSURANCE

A. DESIGN, MANUFACTURE, TESTING AND METHOD OF INSTALLATION OF ALL APPARATUS AND MATERIALS FURNISHED UNDER REQUIREMENTS OF THESE SPECIFICATIONS SHALL CONFORM TO LATEST PUBLICATIONS OR STANDARD RULES OF THE FOLLOWING.

- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS - IEEE
- NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION - NEMA
- UNDERWRITERS' LABORATORIES, INC. - UL
- NATIONAL FIRE PROTECTION ASSOCIATION - NFPA
- FEDERAL SPECIFICATIONS - FED. SPEC.
- AMERICAN SOCIETY FOR TESTING AND MATERIALS - ASTM
- AMERICAN NATIONAL STANDARDS INSTITUTE - ANSI
- NATIONAL ELECTRICAL SAFETY CODE - NESC
- INSULATED CABLE ENGINEERS ASSOCIATION - ICEA
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION - AISC
- STATE AND MUNICIPAL CODES IN FORCE IN THE SPECIFIC PROJECT AREA
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- ELECTRONICS INDUSTRIES ASSOCIATION/TELECOMMUNICATIONS INDUSTRY ASSOCIATION (EIA/TIA)
- CALIFORNIA ELECTRICAL CODE
- LOCAL AUTHORITY HAVING JURISDICTION PUBLISHED ELECTRICAL STANDARDS & CODES (AS APPLICABLE)

B. PERFORM WORK IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, APPLICABLE BUILDING ORDINANCES, AND OTHER APPLICABLE CODES, HEREINAFTER REFERRED TO AS THE "CODE." THE CONTRACTOR SHALL COMPLY WITH THE CODE INCLUDING LOCAL AMENDMENTS AND INTERPRETATIONS WITHOUT ADDED COST TO THE OWNER. WHERE CONTRACT DOCUMENTS EXCEED MINIMUM REQUIREMENTS, THE CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CONFLICTS OCCUR, THE MOST STRINGENT SHALL APPLY AND SHALL BE PART OF THE BASE BID.

1. COMPLY WITH ALL REQUIREMENTS FOR PERMITS, LICENSES, FEES AND ALL CODES. THE CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL OBTAIN ALL PERMITS, LICENSES, FEES, SPECIAL SERVICE COSTS, INSPECTIONS AND ARRANGEMENTS REQUIRED FOR WORK UNDER THIS CONTRACT, UNLESS OTHERWISE SPECIFIED.

2. COMPLY WITH REQUIREMENTS OF THE APPLICABLE UTILITY COMPANIES SERVING THIS PROJECT. MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR PROPER COORDINATION OF WORK.

1.2 GENERAL REQUIREMENTS

A. GUARANTEE: FURNISH A WRITTEN GUARANTEE FOR A PERIOD OF ONE-YEAR FROM DATE OF ACCEPTANCE.

B. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, DEVICES, CIRCUIT BREAKERS, ETC., (ALL MATERIALS), ARISES ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITION NOTED ON DRAWINGS AND/OR IN SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.

C. ALL CORE CUTTING, DRILLING, AND PATCHING:

1. FOR THE INSTALLATION OF WORK UNDER THIS SECTION, THE AFOREMENTIONED SHALL BE PERFORMED UNDER THIS SECTION OF THE SPECIFICATIONS AND THE CONCRETE SECTION OF THE SPECIFICATIONS.

2. NO HOLES WILL BE ALLOWED IN ANY STRUCTURAL MEMBERS WITHOUT THE WRITTEN APPROVAL OF THE PROJECT'S STRUCTURAL ENGINEER.

3. FOR PENETRATIONS OF CONCRETE SLABS OR CONCRETE FOOTINGS, THE WORK SHALL BE AS DIRECTED IN THE CONCRETE SECTION OF SPECIFICATIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING SURFACES WHERE HE IS REQUIRED TO PENETRATE FOR WORK UNDER THIS CONTRACT.

5. PENETRATIONS SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE SURFACE REQUIRED TO BE PATCHED AND REPAIRED. THE PATCHED SURFACE SHALL BE PAINTED OR FINISHED TO MATCH THE EXISTING SURFACE.

D. VERIFYING DRAWINGS AND JOB CONDITIONS:

1. THIS CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS IN A MANNER TO BE FULLY COGNIZANT OF ALL WORK REQUIRED UNDER THIS SECTION.

2. THIS CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS. WHERE EXISTING CONDITIONS DIFFER FROM DRAWINGS, ADJUSTMENT(S) SHALL BE MADE AND ALLOWANCES INCLUDED FOR ALL NECESSARY EQUIPMENT TO COMPLETE ALL PARTS OF THE DRAWINGS AND SPECIFICATIONS.

1.3 WORK IN COOPERATION WITH OTHER TRADES

A. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND DETERMINE THE WORK TO BE PERFORMED BY THE ELECTRICAL, MECHANICAL AND OTHER TRADES. PROVIDE THE TYPE AND AMOUNT OF ELECTRICAL MATERIALS AND EQUIPMENT NECESSARY TO PLACE THIS WORK IN PROPER OPERATION, COMPLETELY WIRED, TESTED AND READY FOR USE. THIS SHALL INCLUDE ALL CONDUIT, WIRE, DISCONNECTS, RELAYS, AND OTHER DEVICES FOR THE REQUIRED OPERATION SEQUENCE OF ALL ELECTRICAL, MECHANICAL AND OTHER SYSTEMS OR EQUIPMENT.

B. PROVIDE CONDUIT ONLY FOR LOW VOLTAGE WIRING REQUIRED FOR CONTROL OF MECHANICAL AND PLUMBING EQUIPMENT DESCRIBED IN THIS OR OTHER PARTS OF THE CONTRACT DOCUMENTS. INSTALL ALL CONTROL HOUSINGS AND BACKBOXES REQUIRED FOR INSTALLING CONDUIT AND WIRE TO THE CONTROLS.

C. INSTALL SEPARATE CONDUITS BETWEEN EACH HEATING, VENTILATING AND AIR CONDITIONING SENSING DEVICE AND ITS CONTROL PANEL AND/OR CONTROL MOTOR. BEFORE INSTALLING ANY CONDUIT FOR HEATING, VENTILATING AND AIR CONDITIONING CONTROL WIRING, VERIFY THE EXACT REQUIREMENTS FROM THE CONTROL DIAGRAMS PROVIDED WITH THE EQUIPMENT MANUFACTURER'S SHOP DRAWINGS.

1.4 TESTING AND ADJUSTMENT

A. UPON COMPLETION OF ALL ELECTRICAL WORK, THIS CONTRACTOR SHALL TEST ALL CIRCUITS, SWITCHES, LIGHT FIXTURES, LIGHTING CONTROL & DIMMING SYSTEMS INCLUDING DISTRIBUTED SYSTEMS, UPSS, GENERATORS, TVSSS, LIGHTING INVERTERS, TRANSFER SWITCHES, MOTORS, CIRCUIT BREAKERS, MOTOR STARTER(S) AND THEIR AUXILIARY CIRCUITS AND ANY OTHER ELECTRICAL ITEMS TO ENSURE PERFECT OPERATION OF ALL ELECTRICAL EQUIPMENT.

B. EQUIPMENT AND PARTS IN NEED OF CORRECTION, AND DISCOVERED DURING SUCH TESTING, SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH ALL NEW EQUIPMENT AND THAT PART OF THE SYSTEM SHALL THEN BE RETESTED. ALL SUCH REPLACEMENT OR REPAIR SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

C. ALL CIRCUIT(S) SHALL BE TESTED FOR CONTINUITY AND CIRCUIT INTEGRITY. ADJUSTMENTS SHALL BE MADE FOR CIRCUITS NOT COMPLYING WITH TESTING CRITERIA.

D. ALL TEST REPORTS, INCLUDING COPIES OF ANY REQUIRED ENERGY CODE ACCEPTANCE FORMS (E.G. CA TITLE 24 ACCEPTANCE FOR CODE COMPLIANCE FORMS) SHOULD BE SUBMITTED TO THE ENGINEER AT COMPLETION OF PROJECT.

1.5 IDENTIFICATION

A. NAMEPLATES SHALL BE PROVIDED FOR UNIT SUBSTATIONS, SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, DISTRIBUTION PANELS, PANEL BOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, TRANSFER SWITCHES, CONTACTORS, STARTERS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS/SWITCHES, INVERTERS, UPSS, PDUS, RDCS, LIGHTING CONTROL PANELS, DIMMING PANELS, DOOR RELEASING SYSTEM PANELS, FIRE ALARM/CENTRAL MONITORING TERMINAL CABINETS/POWER SUPPLIES/CONTROL PANELS, AND ALL LOW VOLTAGE SYSTEM TERMINAL & CONTROL CABINETS. NAMEPLATE INSCRIPTIONS SHALL BE IDENTICAL TO THE EQUIPMENT DESIGNATIONS INDICATED IN PLANS AND SPECIFICATIONS. ALL CIRCUIT BREAKERS/FUSES IN SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, DISTRIBUTION PANELS, UPS OUTPUT CIRCUIT BREAKERS, PDU OUTPUT CIRCUIT BREAKERS AND MOTOR CONTROL CENTERS SHALL HAVE INDIVIDUAL NAMEPLATES LOCATED IMMEDIATELY ADJACENT TO THE RESPECTIVE DEVICE. NAMEPLATE INSCRIPTION SHALL IDENTIFY THE DOWNSTREAM EQUIPMENT OR DEVICE SERVED BY THE CIRCUIT BREAKER OR FUSE.

NAMEPLATES FOR CONTACTORS, STARTERS, DISCONNECT SWITCHES, AND ENCLOSED CIRCUIT BREAKERS SHALL BE ENGRAVED WITH THE DEVICE DESIGNATION/IDENTIFICATION ON THE TOP LINE, SOURCE IDENTIFICATION FOR THE DEVICE ON THE 2ND LINE AND LOAD DESIGNATION FOR THE DEVICE ON THE BOTTOM LINE. WHERE DEVICE DESIGNATION IS NOT INDICATED ON PLANS/SPECIFICATIONS, CONTRACTOR SHALL SUBMIT A WRITTEN CLARIFICATION REQUEST TO THE ENGINEER.

B. IDENTIFICATION NAMEPLATES, U.N.O, SHALL BE LAMINATED 1/8" THICK MICARTA WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS 3/8" HIGH, MINIMUM, ON 1-1/2" HIGH BLACK BACKGROUND FOR SINGLE LINE OF TEXT. WHERE TWO LINES OF TEXT ARE REQUIRED, PROVIDE MIN. 2" HIGH NAMEPLATE. WHERE THREE LINES OF TEXT ARE REQUIRED, PROVIDE MIN. 2.5" HIGH NAMEPLATE. LABELS SHALL BE BLACK FOR NORMAL POWER SYSTEMS AND RED FOR SYSTEMS CONNECTED TO EMERGENCY POWER.

C. IDENTIFICATION NAMEPLATES FOR NEW SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, DISTRIBUTION PANELS, PANEL BOARDS & MOTOR CONTROL CENTERS SHALL BE ATTACHED WITH SWITCHGEAR MANUFACTURER -PROVIDED SCREWS VIA SWITCHGEAR MANUFACTURER FACTORY PRE-DRILLED HOLES. A FACTORY OPTION TO RIVET IDENTIFICATION NAMEPLATES TO THE EQUIPMENT IS ONLY ACCEPTABLE IF SCREW-FASTENED NAMEPLATES ARE NOT AN AVAILABLE OPTION FROM THE SWITCHGEAR MANUFACTURER. FIELD DRILLING OR OTHER MECHANICAL ATTACHMENT METHODS THAT CHANGE/VOID THE NEMA OR NRTL RATING OF THE ENCLOSURE ARE STRICTLY FORBIDDEN.

D. RECEPTACLES THAT ARE PART OF A UL-LISTED UNDER FLOOR COMPUTER ROOM WHIP ASSEMBLY, CEILING AND/OR CABLE/LADDER TRAY-MOUNTED RECEPTACLES USED IN LAB, MANUFACTURING, COMMERCIAL KITCHEN ENVIRONMENTS OR THAT ARE SERVING TELECOM/DATA/AV RACKS & CABINETS SHALL HAVE IDENTIFICATION NAMEPLATES LOCATED ON THE WIRING DEVICE PLATE COVER. NAMEPLATES SHALL BE SELF-ADHESIVE, 1/8" THICK MICARTA WITH BEVELED EDGES, ENGRAVED 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND WITH SERVING POWER SOURCE, CIRCUIT IDENTIFICATION AND NEMA/ELECTRICAL CHARACTERISTICS TYPE (2) SEPARATE NAMEPLATES PER DEVICE PLATE COVER IS ACCEPTABLE. AFFIX NAMEPLATES TO BE VISIBLE WHEN PLUGS ARE OCCUPYING RECEPTACLES.

E. SEE WIRING DEVICE SECTION OF THIS SPECIFICATION FOR ADDITIONAL WIRING DEVICE PLATE COVER LABELING REQUIREMENTS.

1.6 FINAL INSPECTION AND ACCEPTANCE

A. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE.

B. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

1.7 RECORD DRAWINGS

A. DRAWINGS OF RECORD: THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE, A COMPLETE RECORD SET OF DRAWINGS. THESE SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. REFER TO THE SUPPLEMENTARY GENERAL CONDITIONS FOR COMPLETE REQUIREMENTS. AT COMPLETION OF PROJECT, THE CONTRACTOR SHALL TRANSFER ALL FIELD AS-BUILT INFORMATION TO AUTOCAD ELECTRONIC DRAWINGS IN DWG FORMAT OR EQUAL.

1.8 APPROVALS, EQUALS, SUBSTITUTIONS, ALTERNATIVES, NO KNOWN EQUAL

A. APPROVALS: WHERE THE WORDS (OR SIMILAR TERMS) "APPROVED", "APPROVAL", "ACCEPTABLE", AND "ACCEPTANCE" ARE USED, IT SHALL BE UNDERSTOOD THAT ACCEPTANCE BY THE OWNER, ARCHITECT AND ENGINEER ARE REQUIRED.

B. EQUAL: WHERE THE WORDS (OR SIMILAR TERMS) "EQUAL", "APPROVED EQUAL", "EQUAL TO", "OR EQUAL BY", "OR EQUAL" AND "EQUIVALENT" ARE USED, IT SHALL BE UNDERSTOOD THAT THESE WORDS ARE FOLLOWED BY THE EXPRESSION "IN THE OPINION OF THE OWNER, ARCHITECT, AND ENGINEER". FOR THE PURPOSES OF SPECIFYING PRODUCTS, THE ABOVE WORDS SHALL INDICATE THE SAME SIZE, MADE OF THE SAME CONSTRUCTION MATERIALS, MANUFACTURED WITH EQUIVALENT LIFE EXPECTANCY, HAVING THE SAME AESTHETIC APPEARANCE/STYLE (INCLUDES CRAFTSMANSHIP, PHYSICAL ATTRIBUTES, COLOR AND FINISH), AND THE SAME PERFORMANCE".

C. SUBSTITUTION: FOR THE PURPOSES OF SPECIFYING PRODUCTS "SUBSTITUTION" SHALL REFER TO THE SUBMITTAL OF A PRODUCT NOT EXPLICITLY APPROVED BY THE CONSTRUCTION DOCUMENTS/SPECIFICATIONS.

1. SUBSTITUTIONS OF SPECIFIED EQUIPMENT SHALL BE SUBMITTED AND RECEIVED BY THE ENGINEER TEN (10) DAYS PRIOR TO THE BID DATE FOR REVIEW AND WRITTEN APPROVAL. REGULATORY AGENCY APPROVAL FOR ALL SUBSTITUTIONS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. TO RECEIVE CONSIDERATION, REQUESTS FOR SUBSTITUTIONS MUST BE ACCOMPANIED BY DOCUMENTARY PROOF OF ITS EQUALITY WITH THE SPECIFIED MATERIAL. DOCUMENTARY PROOF SHALL BE IN LETTER FORM AND IDENTIFY THE SPECIFIED VALUES/MATERIALS ALONGSIDE PROPOSED EQUAL VALUES/MATERIALS. IN ADDITION, CATALOG BROCHURES AND SAMPLES, IF REQUESTED, MUST BE INCLUDED IN THE SUBMITTAL. ONLY PRE-BID APPROVED PRODUCTS, ISSUED VIA A FORMAL BID ADDENDUM TO ALL BIDDERS, WILL BE ALLOWED ON THE PROJECT. REGARDLESS OF THE APPROVAL ON ANY SUBSTITUTION, ALL BIDS SHALL BE BASED ON THE PRODUCTS EXACTLY AS SPECIFIED. PRICING FOR EACH APPROVED SUBSTITUTION SHALL BE INCLUDED IN THE BID SUBMITTAL AS A SEPARATE LINE ITEM.

2. IN THE EVENT THAT WRITTEN AUTHORIZATION IS GIVEN FOR A SUBSTITUTION, AFTER AWARD OF CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER QUOTATIONS FROM SUPPLIERS/DISTRIBUTORS OF BOTH THE SPECIFIED AND PROPOSED EQUAL MATERIAL FOR PRICE COMPARISON, AS WELL AS A VERIFICATION OF DELIVERY DATES THAT CONFORM TO THE PROJECT SCHEDULE.

3. IN THE EVENT OF COST REDUCTION, THE OWNER WILL BE CREDITED WITH 100 PERCENT OF THE REDUCTION, ARRANGED BY CHANGE ORDER.

4. THE CONTRACTOR WARRANTS THAT SUBSTITUTIONS PROPOSED FOR SPECIFIED ITEMS WILL FULLY PERFORM THE FUNCTIONS REQUIRED.

D. ALTERNATES\ALTERNATIVES: FOR THE PURPOSES OF SPECIFYING PRODUCTS, "ALTERNATIVES/ALTERNATES" MAY BE ESTABLISHED TO ENABLE THE OWNER/ ARCHITECT/ENGINEER TO COMPARE COSTS WHERE ALTERNATIVE MATERIALS OR METHODS MIGHT BE USED. AN ALTERNATE PRICE SHALL BE SUBMITTED IN ADDITION TO THE BASE BID FOR CONSIDERATION. IF THE ALTERNATE IS DEEMED ACCEPTABLE, WRITTEN AUTHORIZATION WILL BE ISSUED.

E. NO KNOWN EQUAL: FOR THE PURPOSES OF SPECIFYING PRODUCTS, "NO KNOWN EQUAL" SHALL MEAN THAT THE OWNER/ARCHITECT/ENGINEER IS NOT AWARE OF AN EQUIVALENT PRODUCT. THE CONTRACTOR WILL NEED TO SUBMIT A "SUBSTITUTION" ITEM, PER THE REQUIREMENTS LISTED ABOVE, IF A DIFFERENT PRODUCT IS PROPOSED TO BE UTILIZED.

1.9 SHOP DRAWINGS/SUBMITTALS

A. SHOP DRAWINGS/SUBMITTALS SHALL BE SUBMITTED IN SIX (6) BOUND SETS ACCOMPANIED BY LETTER OF TRANSMITTAL, WHICH SHALL GIVE A LIST OF THE NUMBER AND DATES OF THE DRAWINGS SUBMITTED. DRAWINGS SHALL BE COMPLETE IN EVERY RESPECT AND BOUND IN SETS.

B. THE SHOP DRAWINGS/SUBMITTALS SUBMITTED SHALL BE MARKED WITH THE NAME OF THE PROJECT, NUMBERED CONSECUTIVELY AND BEAR THE APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE CONTRACTOR HAS CHECKED THE DRAWINGS. ANY DRAWINGS SUBMITTED WITHOUT THIS APPROVAL WILL BE RETURNED TO THE CONTRACTOR FOR RESUBMISSION.

C. IF THE SHOP DRAWINGS SHOW VARIATIONS FROM THE REQUIREMENTS OF THE CONTRACT BECAUSE OF STANDARD SHOP PRACTICE OR OTHER REASONS, THE CONTRACTOR SHALL MAKE SPECIFIC MENTION OF SUCH VARIATIONS IN THE CONTRACTOR'S LETTER OF TRANSMITTAL. IF THE SUBSTITUTION IS ACCEPTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER ADJUSTMENT THAT MAY BE CAUSED BY THE SUBSTITUTION. SAMPLES SHALL BE SUBMITTED WHEN REQUESTED.

D. ONLY PRODUCTS LISTED AS "EQUAL" WITHIN THE CONTRACT DOCUMENTS, ALONG WITH FORMALLY APPROVED "SUBSTITUTIONS" WILL BE REVIEWED. PRODUCTS NOT CONFORMING TO THESE ITEMS WILL NOT BE REVIEWED AND WILL BE RETURNED TO THE CONTRACTOR FOR RE-SUBMITTAL.

E. SUBMITTALS/SHOP DRAWINGS SHALL BE SUBMITTED ON THE FOLLOWING BUT NOT LIMITED TO:

- LIGHTING FIXTURES
- CONDUIT
- FITTINGS
- CONDUCTORS
- DISCONNECT SWITCHES
- SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, AND BUS DUCTS; COMPLETE WITH OVERCURRENT DEVICE INFORMATION.
- TRANSFORMERS
- FIRE ALARM SYSTEM/CENTRAL MONITORING SYSTEM
- WIRING DEVICES.
- LIGHTING CONTROL PRODUCTS/DIMMING SYSTEM PRODUCTS
- PULLBOXES AND UNDERGROUND VAULTS
- TERMINAL CABINETS
- LIGHTING INVERTERS, UPSS, RDCS, PDUS, GENERATORS, TRANSFER SWITCHES, TVSS SYSTEMS
- CABLE TRAY, FLEXIBLE CABLE TRAY AND CABLE RUNWAY
- POWER POLES AND FLOOR BOXES
- ARC FLASH, SHORT-CIRCUIT & COORDINATION STUDIES
- ALL OTHER PRODUCTS CALLED OUT ON DRAWINGS THAT CALL FOR SHOP DRAWING SUBMITTAL.

1.10 MAINTENANCE, SERVICING, INSTRUCTION MANUALS AND WIRING DIAGRAMS

A. PRIOR TO FINAL ACCEPTANCE OF THE JOB, THE ELECTRICAL CONTRACTOR SHALL FURNISH TO THE OWNER AT LEAST FOUR (4) COPIES OF OPERATING AND MAINTENANCE AND SERVICING INSTRUCTIONS, AS WELL AS FOUR (4) COMPLETE WIRING DIAGRAMS FOR THE FOLLOWING ITEMS OR EQUIPMENT:

- LIGHTING CONTROL SYSTEMS/DIMMING SYSTEMS
- FIRE ALARM SYSTEM
- TRANSFORMERS
- SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, AND BUS DUCTS; COMPLETE WITH OVERCURRENT DEVICE INFORMATION.
- LIGHTING INVERTERS, UPS'S, PDU'S, GENERATORS, TRANSFER SWITCHES, TVSS SYSTEMS

B. ALL WIRING DIAGRAMS SHALL SPECIFICALLY COVER THE SYSTEM SUPPLIED. TYPICAL DRAWINGS WILL NOT BE ACCEPTED. FOUR (4) COPIES SHALL BE PRESENTED TO THE OWNER.

1.11 INTERRUPTION OF SERVICES/SERVICE SHUTDOWN

A. ANY INTERRUPTION OF ELECTRICAL SERVICES, ELECTRICAL CIRCUITS, ELECTRICAL FEEDERS, SIGNAL SYSTEMS, COMMUNICATION SYSTEMS, FIRE ALARM SYSTEMS, ETC. REQUIRED TO PERFORM WORK SHALL MEET THE SPECIFIC PRIOR- APPROVAL REQUIREMENTS OF THE OWNER. SUCH WORK SHALL BE SCHEDULED WITH THE OWNER TO BE PERFORMED AT THE OWNER'S CONVENIENCE.

B. INTERRUPTIONS/OUTAGES OF ANY OF THE OWNER'S SYSTEMS AND SERVICES MENTIONED ABOVE SHALL BE SCHEDULED TO OCCUR DURING OTHER THAN THE OWNER'S NORMAL BUSINESS HOURS. ANY OVERTIME COSTS SHALL BE BORNE BY THE CONTRACTOR.

C. SEE DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS REGARDING OUTAGES, INTERRUPTION AND ANY TEMPORARY SERVICES REQUIRED.

PART 2 - PRODUCTS

2.1 MATERIALS

A. MATERIALS AND EQUIPMENT: ALL ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING CUSTOM-MADE EQUIPMENT, SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR BE LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LAB (NRTL) THAT IS ALSO RECOGNIZED BY THE LOCAL AUTHORITY-HAVING-JURISDICTION (AHJ).

B. SWITCHGEAR/SWITCHBOARDS/DISTRIBUTION BOARDS/MOTOR CONTROL CENTERS:

1. SEE GENERAL SINGLE LINE DIAGRAM NOTES ON DRAWINGS FOR ADDITIONAL INFORMATION.

C. PANELBOARDS - BRANCH CIRCUIT:

1. SEE DRAWINGS FOR PANELBOARD SCHEDULES AND SPECIFICATIONS.

D. TRANSFORMERS:

1. SEE DRAWINGS FOR TRANSFORMER SCHEDULES AND SPECIFICATIONS.

E. LIGHTING FIXTURES:

1. SEE DRAWINGS FOR LIGHTING FIXTURE AND LAMP SCHEDULES AND ADDITIONAL SPECIFICATIONS. FURNISH, INSTALL AND CONNECT A LIGHTING FIXTURE AT EACH OUTLET WHERE A LIGHTING FIXTURE TYPE SYMBOL (DESIGNATED ON PLANS) IS SHOWN AS BEING INSTALLED. EACH FIXTURE SHALL BE COMPLETE WITH ALL REQUIRED ACCESSORIES INCLUDING SOCKETS, GLASSWARE, BOXES, SPACERS, MOUNTING DEVICES, FIRE RATING ENCLOSURE AND LAMPS.

2. BALLASTS: SEE LIGHTING FIXTURE SCHEDULE NOTES. ALL NOISY BALLASTS SHALL BE REPLACED AT NO COST TO THE OWNER.

3. LAMPS: SEE LAMP/FIXTURE SCHEDULE AND LAMP/LIGHTING FIXTURE SCHEDULE NOTES.

F. WIRING DEVICES:

1. PROVIDE WIRING DEVICES INDICATED PER PLAN. DEVICES SHALL BE SPECIFICATION GRADE. ACCEPTABLE MANUFACTURES ARE LEVITON, PASS & SEYMOUR AND HUBBELL. PROVIDE ALL SIMILAR DEVICES OF SAME MANUFACTURER, UNLESS INDICATED OTHERWISE. ALL DEVICE COLORS SHALL BE SELECTED FROM THE FULL RANGE OF MANUFACTURER STANDARD COLOR OPTIONS AS SELECTED BY THE ARCHITECT. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

2. I.G. (ISOLATED GROUND) RECEPTACLE BODIES SHALL BE OF A BASIC COLOR SPECIFIED ABOVE WITH AN ORANGE TRIANGLE TO SYMBOLIZE ISOLATED GROUND.

3. WHEN SHOWN CIRCUITED WITH AN I.G. CONDUCTOR, ALL RECEPTACLES SHALL BE OF THE I.G. TYPE.

4. WIRING DEVICES LOCATED IN GENERAL CARE AREAS AND CRITICAL CARE AREAS PER CEC, ARTICLE 517 SHALL BE LISTED AND IDENTIFIED AS "HOSPITAL GRADE" (DECORA STYLE - UNLESS OTHERWISE NOTED).

5. WIRING DEVICE COVER PLATES LOCATED ON RECESSED BOXES SHALL BE COMMERCIAL GRADE STAINLESS STEEL. COVER PLATES UTILIZED ON SURFACE MOUNTED BOXES SHALL BE STAINLESS STEEL. PLASTIC COVER PLATES ARE UNACCEPTABLE.

6. ALL WIRING DEVICE PLATES ON THE PROJECT SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER(S) UTILIZING A BROTHER P-TOUCH LABELING SYSTEM UTILIZING 1/2" TAPE (YELLOW ON BLACK) OR EQUAL BY HERMAN-TELLERMAN OR PANDUIT. LOCATE LABEL ON THE CONCEALED SIDE OF THE WIRING DEVICE PLATE. HANDWRITTEN LABELS ARE UNACCEPTABLE.

7. THE FOLLOWING WIRING DEVICE PLATES SHALL BE ENGRAVED:

a. KEY OPERATED SWITCHES, SWITCHES WITH PILOT LIGHTS AND SWITCHES FOR THE CONTROL OF MOTORS, HEATERS AND VENTILATORS. ENGRAVING SHALL BE BLACK AND OCCUR ON THE EXPOSED SIDE OF THE PLATE AND INDICATE THE MOTOR, HEATER, OR VENTILATOR CONTROLLED.

b. RECEPTACLES ON GENERATOR AND/OR UPS POWER SHALL HAVE CUSTOM HOT STAMPED PLATES WITH THE WORDS "GENERATOR" OR "UPS" IN BLACK LETTERS.

8. WEATHERPROOF OUTLET COVERS/ASSEMBLIES. ALL RECEPTACLES IDENTIFIED AS WEATHERPROOF ON THE DRAWINGS SHALL BE GFCI TYPE AND EQUIPPED WITH CAST WEATHERPROOF OUTLET BOXES WITH METAL COVERS. PROVIDE LOCKING TYPE WHERE NOTED ON DRAWINGS.

G. MOTOR CONTROLLERS/STARTERS: SEE DRAWINGS FOR MOTORIZED EQUIPMENT SCHEDULES AND SPECIFICATIONS.

H. CIRCUIT BREAKERS.

1. SERVICE ENTRANCE CIRCUIT BREAKERS SMALLER THAN 400 AMP FRAME SHALL BE THERMAL-MAGNETIC TRIP WITH INVERSE TIME CURRENT CHARACTERISTICS UNLESS OTHERWISE INDICATED BELOW. SERVICE ENTRANCE MAIN CIRCUIT BREAKERS, 400 AMP FRAME AND LARGER SHALL BE 100% RATED, SOLID-STATE TYPE AS OUTLINED IN THIS SPECIFICATION. ALL OTHER SERVICE ENTRANCE CIRCUIT BREAKERS, 400 AMP FRAME AND LARGER, SHALL BE 100% RATED, SOLID-STATE TYPE AS OUTLINED IN THIS SPECIFICATION.
2. ALL NON-SERVICE ENTRANCE CIRCUIT BREAKERS 225 AMP AND LARGER SHALL BE THERMAL MAGNETIC TYPE AND HAVE CONTINUOUSLY ADJUSTABLE MAGNETIC PICK-UPS OF APPROXIMATELY 5 TO 10 TIMES TRIP RATING. BREAKERS SHALL HAVE EASILY CHANGED TRIP RATING PLUGS WITH TRIP RATINGS AS INDICATED ON THE DRAWINGS. RATING PLUGS SHALL BE INTERLOCKED SO THEY ARE NOT INTERCHANGEABLE BETWEEN FRAMES. ADDITIONALLY, ALL NON-SERVICE ENTRANCE CIRCUIT BREAKERS, 600 AMP FRAME AND LARGER, LOCATED IN 480V 3

ELECTRICAL GENERAL SPECIFICATIONS

X. OUTLET BOXES:

1. FOR FIXTURES, BOXES SHALL BE GALVANIZED, ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE EQUIPPED WITH 3/8" FIXTURE STUDS AND PLASTER RINGS WHERE REQUIRED.

2. FOR CONVENIENCE OUTLETS, WALL SWITCHES, OR OTHER DEVICES, OUTLET BOXES SHALL BE GALVANIZED ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE 4" X 4" X 2-1/8" MINIMUM SIZE WITH PLASTER RINGS AS REQUIRED.

3. FOR LOCATIONS WHERE STANDARD BOXES ARE NOT SUITABLE DUE TO NUMBER AND SIZE OF CONDUIT TO BE TERMINATED, SPECIAL BOXES SHALL BE DESIGNED TO FIT SPACE OR MEET OTHER REQUIREMENTS AND SUBMITTED FOR APPROVAL.

4. FOR EXPOSURE TO WEATHER, DAMP LOCATIONS, OR SURFACE MOUNTING, OUTLET BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH THREADED HUBS; COVERS SHALL BE WATERTIGHT WITH GASKETS AND NON-FERROUS SCREWS.

5. OUTLET BOXES USED FOR SUPPORT OF CEILING FANS SHALL BE GALVANIZED, ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE EQUIPPED WITH BRACING BARS & PLASTER RINGS WHERE REQUIRED AND LISTED FOR CEILING FAN SUPPORT USE. SUCH BOXES SHALL BE LABELED AND CAPABLE OF SUPPORTING CEILING FAN WEIGHTS UP TO 70 POUNDS.

6. SEE DRAWINGS FOR FLOOR BOX INSTALLATION NOTES AND SPECIFICATIONS.

Y. PLYWOOD BACKBOARDS: WHERE INDICATED FOR TELEPHONE OR COMMUNICATIONS SYSTEM TERMINALS OR OTHER EQUIPMENT ASSEMBLIES, PROVIDE BACKBOARDS OF SIZE INDICATED. USE 3/4" THICK X 8' TALL (LENGTH PER PLANS), DOUGLAS FIR, VOID-FREE, KILN-DRIED, FIRE-RATED PLYWOOD FINISHED ON ONE SIDE AND PRIME COAT PAINTED ON ALL SURFACES WITH FINISH COAT OF ENAMEL PAINT, COLOR BY ARCHITECT. LEAVE ONE (1) FIRE-RATING STAMP/SHEET EXPOSED FOR INSPECTION.

Z. TERMINAL CABINETS:

1. TERMINAL CABINETS SHALL BE FABRICATED OF HOT DIPPED GALVANIZED CODE GAUGE SHEET METAL FOR FLUSH OR SURFACE MOUNTING, COMPLETE WITH BARRIERED SECTIONS, A DOOR FOR EACH VERTICALLY BARRIERED SECTION AND SIZES AS INDICATED ON PLAN. DOORS SHALL BE HINGED AND LOCKABLE. LOCKS SHALL BE KEYED TO MATCH THE BRANCH CIRCUIT PANELBOARDS. TERMINAL CABINET TRIMS SHALL MATCH THE BRANCH CIRCUIT PANELS.

2. PROVIDE EACH TERMINAL CABINET WITH A FULL SIZE PLYWOOD BACKBOARD.

3. TERMINAL CABINETS SHALL BE INSTALLED COMPLETE WITH FULL-LENGTH SKIRTS OF THE SAME CONSTRUCTION AND FINISH AS THE TERMINAL CABINET.

4. WHERE MOUNTED OUTDOORS, TERMINAL CABINETS SHALL BE NEMA 3R, WEATHERPROOF COMPLETE WITH GASKETS AND REQUIRED SEALANT TO PREVENT MOISTURE FROM ENTERING THE TERMINAL CABINET.

5. ALL TERMINAL CABINETS AND TERMINAL CABINET BARRIERED SECTIONS SHALL BE LABELED BY THE CABINET OR CABINET SECTION USE (I.E. CATV, SECURITY, ETC). LABELS SHALL BE MICARTA TYPE AS SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL TERMINATION BLOCKS AND CABLES SHALL BE LABELED PER ANSI/EIA 606 STANDARD.

AA. PAINTING: TERMINAL CABINETS, PANELS, JUNCTION BOXES, PULL BOXES, ETC., AND CONDUIT INSTALLED IN PUBLIC VIEW SHALL BE PAINTED WITH COLORS SELECTED BY THE ARCHITECT TO MATCH THE SUBJECT SURFACE. REFER TO PAINTING SECTION OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

BB. TRENCHING AND BACKFILLING: CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHING AND BACKFILLING. REFER TO APPLICABLE TRENCHING AND BACKFILLING SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

PART 3 - EXECUTION

3.1 PREPARATION AND INSTALLATION

A. INSTALLATION OF CONDUIT AND OUTLET BOXES:

1. ALL CONDUIT INSTALLED IN THE DRY WALLS OR CEILINGS OF A BUILDING SHALL BE STEEL TUBE (EMT), ALUMINUM TUBE (EMT), OR INTERMEDIATE METAL CONDUIT (IMC). FLEXIBLE CONDUIT SHALL NOT BE USED IN LIEU OF EMT, IMC OR RIGID CONDUIT EXCEPT AS NOTED HEREIN.

2. GALVANIZED RIGID CONDUIT (GRC) OR INTERMEDIATE METAL CONDUIT (IMC) SHALL BE USED AS FOLLOWS:

- WHEN NOTED ON THE DRAWINGS
- WHEN CONSIDERED EXPOSED TO DAMAGE BY THE LOCAL AHJ
- WHEN INSTALLED IN WET OR DAMP LOCATIONS AND OF A TRADE SIZE WHERE LISTED-RAINTITE FITTINGS, CONNECTORS, COUPLINGS ETC ARE UNAVAILABLE
- WHEN REQUIRED BY CEC ARTICLE 517.13
- WHEN INSTALLED IN CONCRETE AND MASONRY. THE USE OF ENT IN CMU WALLS AND PARKING STRUCTURES MAY BE ALLOWED ONLY AS DIRECTED IN WRITING BY THE ENGINEER. REQUEST FOR ENT SUBSTITUTION MUST BE MADE PRIOR TO BID AND IN ACCORDANCE WITH PRE-BID SUBSTITUTION REQUEST REQUIREMENTS OF THESE SPECIFICATIONS.

3. INTERMEDIATE METAL CONDUIT (IMC), IS APPROVED FOR USE IN ALL LOCATIONS AS APPROVED FOR GRC OR EMT AND IN ACCORDANCE WITH CEC, ARTICLE 342.

4. FLEXIBLE STEEL CONDUIT SHALL ONLY BE PERMITTED TO BE USED AT LIGHT FIXTURE OUTLETS AND CONNECTIONS TO VIBRATING ELECTRICAL EQUIPMENT. ALL FLEXIBLE STEEL CONDUIT RUNS SHALL BE LESS THAN 6'-0". ALL OUTDOOR INSTALLATION SHALL BE MADE USING LIQUID-TIGHT FLEX WITH APPROVED FITTINGS. INCLUDE A SEPARATE INSULATED GREEN GROUND CONDUCTOR SIZED PER CEC IN EACH CONDUIT. OTHER USES OF FLEXIBLE CONDUIT SHALL BE ALLOWED ONLY AS APPROVED IN WRITING BY THE ENGINEER.

5. FLEXIBLE LIQUIDTIGHT CONDUIT SHALL BE INSTALLED IN LIEU OF THE FLEXIBLE STEEL; WHERE REQUIRED BY CEC, IN DAMP AND WET LOCATION, WHERE EXPOSED TO WEATHER, IN REFRIGERATED AREA (65 DEG. F OR LESS), AND/OR BETWEEN SEISMIC JOINTS. ALL ROTATING ELECTRICAL EQUIPMENT SHALL BE SUPPLIED WITH FLEXIBLE, LIQUID-TIGHT CONDUIT WITH APPROPRIATE SLACK AND SHALL NOT EXCEED THIRTY-SIX (36) INCHES. INCLUDE A SEPARATE INSULATED GREEN GROUND CONDUCTOR SIZED PER CEC IN EACH CONDUIT. OTHER USES OF LIQUIDTIGHT FLEXIBLE CONDUIT SHALL BE ALLOWED AS APPROVED IN WRITING BY THE ENGINEER ON A CASE BY CASE BASIS.

6. RIGID METALLIC CONDUIT INSTALLED UNDERGROUND OR EMBEDDED IN CONCRETE SHALL BE 1" TRADE SIZE MINIMUM AND SHALL BE WRAPPED WITH 20 MIL POLYVINYL CHLORIDE PLASTIC TAPE. PVC CONDUIT INSTALLED UNDERGROUND OR EMBEDDED IN CONCRETE SHALL BE 1" MINIMUM TRADE SIZE.

7. WHERE REQUIRED FOR PROVIDING AN ELECTRICAL CIRCUIT PROTECTIVE SYSTEM TO COMPLY WITH CEC, ARTICLES 695 AND 700, UTILIZE UL LISTED 2-HOUR FIRE-RATED RHH/RHW CONDUCTORS IN CONDUIT.

8. CONDUIT SHALL BE RUN SO AS NOT TO INTERFERE WITH OTHER PIPING, FIXTURES OR EQUIPMENT.

9. THE ENDS OF ALL CONDUITS SHALL BE CUT SQUARE, CAREFULLY REAMED OUT TO FULL SIZE AND SHALL BE SHOULDERED IN FITTING.

10. NO RUNNING THREADS WILL BE PERMITTED IN LOCATIONS EXPOSED TO THE WEATHER, IN CONCRETE OR UNDERGROUND. SPECIAL UNION FITTINGS SHALL BE USED IN THESE LOCATIONS.

11. WHERE CONDUIT IS UNDERGROUND, UNDER SLABS OR GRADE, EXPOSED TO THE WEATHER, OR IN WET LOCATIONS, MAKE JOINTS LIQUID TIGHT AND GAS TIGHT.

12. ALL METAL CONDUIT IN MASONRY AND CONCRETE AND WHERE CONCEALED UNDER FLOOR SLABS SHALL HAVE JOINTS PAINTED WITH THREAD COMPOUND PRIOR TO MAKEUP.

13. PVC CONDUIT SHALL NOT BE USED ABOVE GRADE.

14. WHERE CONDUCTORS ENTER A RACEWAY OR A RACEWAY IN A CABINET, PULL BOX, JUNCTION BOX, OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY A PLASTIC BUSHING TYPE FITTING PROVIDING A SMOOTHLY ROUNDED INSULATING SURFACE.

15. WHERE CONDUIT EXTENDS THROUGH ROOF TO EQUIPMENT ON ROOF AREA, THIS CONTRACTOR SHALL PROVIDE FLASHING MATERIAL COMPATIBLE WITH THE ROOFING SYSTEM AS REQUIRED BY THE ROOFING SPECIFICATIONS OR AS REQUIRED BY THE OWNER'S ROOF WARRANTY. THIS FLASHING SHALL BE DELIVERED TO THE ROOFING CONTRACTOR FOR INSTALLATION. THE ACTUAL LOCATION OF ALL SUCH ROOF PENETRATIONS AND OUTLETS SHALL BE VERIFIED WITH ARCHITECT/OWNER. CONTRACTOR SHALL VERIFY TYPE OF FLASHING PRIOR TO BID AND INCLUDE ALL COSTS.

16. ALL CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT LESS THAN 6'-0" AND WITHIN 12" FROM ANY OUTLET AND AT EACH SIDE OF BENDS AND ELBOWS. CONDUIT SUPPORTS SHALL BE GALVANIZED, HEAVY STAMPED, TWO-HOLE CONDUIT CLAMP PROPERLY SECURED. FLEXIBLE CONDUIT SUPPORTS SHALL NOT EXCEED 4'-6" ON CENTER.

17. WHERE CONDUIT RACKS ARE USED THE RACK SHALL CONSIST OF TWO PIECE CONDUIT CLAMPS ATTACHED TO GALVANIZED STEEL SLOTTED CHANNELS, PROPERLY SECURED VIA THREADED RODS ATTACHED DIRECTLY TO THE BUILDING STRUCTURE.

18. NAIL-IN CONDUIT SUPPORTS, ONE-PIECE SET SCREW TYPE CONDUIT CLAMPS OR PERFORATED IRON FOR SUPPORTING CONDUIT SHALL NOT BE USED.

19. SEISMIC CONDUIT SUPPORT:

a. ALL CONDUIT SHALL BE SUPPORTED IN SUCH A MANNER THAT IT IS SECURELY ATTACHED TO THE STRUCTURE OF THE BUILDING. ATTACHMENT IS TO BE CAPABLE OF SUPPORTING THE TRIBUTARY WEIGHT OF CONDUIT AND CONTENTS IN ANY DIRECTION. MAXIMUM SPACING OF SUPPORT AND BRACES ARE TO BE AS FOLLOWS:

CONDUIT SIZE	MAXIMUM SPACING
1/2" to 3"	6'-0"
3-1/2" to 4"	8'-0"

20. ALL CONDUIT RUNS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTION OF VERTICAL PLANES AND CEILINGS. FIELD MADE BENDS AND OFFSET SHALL BE AVOIDED WHERE POSSIBLE. CRUSHED OR DEFORMED RACEWAY SHALL NOT BE INSTALLED.

21. OPEN KNOCKOUTS IN OUTLET BOXES ONLY WHERE REQUIRED FOR INSERTING CONDUIT.

22. LOCATE WALL OUTLET OF THE SAME TYPE AT SAME LEVEL IN ALL ROOMS, EXCEPT WHERE OTHERWISE NOTED.

23. OUTLET BOXES ON METAL STUDS SHALL BE ATTACHED TO METAL HANGERS, TACK WELDED OR BOLTED TO STUDS; ON WOOD STUDS ATTACHMENT SHALL BE WITH WOOD SCREWS, NAILS NOT ACCEPTABLE.

24. RECESSED BOXES SHALL NOT BE MOUNTED BACK-TO-BACK IN ANY WALL; MINIMUM OFFSET SHALL BE 24 INCHES.

25. JUNCTION BOXES THAT DO NOT CONTAIN ANY DEVICE(S) SHALL BE LOCATED IN STORAGE ROOMS, ELECTRICAL CLOSETS, OR ABOVE ACCESSIBLE CEILINGS, NOT IN HARD LID CEILINGS OR OTHER FORMS OF INACCESSIBLE CEILINGS. PLACE BOXES WHICH MUST BE EXPOSED TO PUBLIC VIEW IN A LOCATION APPROVED BY THE OWNER'S PROJECT MANAGER. PROVIDE COVERS OR PLATES TO MATCH ADJACENT SURFACES AS APPROVED BY THE OWNER'S PROJECT MANAGER.

26. SURFACE MOUNTED PULL BOXES, TERMINAL CABINETS, JUNCTION BOXES, PANEL BOARDS ETC., SHALL BE ATTACHED TO WALLS USING APPROPRIATE SCREWS, FASTENERS, BACKING PLATES, STUD BLOCKING ETC., AS DETAILED ON ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS. IF ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS ARE NOT PROVIDED ON THE PROJECT, CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE AND BACKING SUPPORT TO COMPLY WITH LOCAL BUILDING CODE REQUIREMENTS AND ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE LOCAL AUTHORITY-HAVING-JURISDICTION.

27. EXCEPT WHERE BELOW GRADE, SLEEVES SHALL BE INSTALLED WHERE CONDUIT PASSES THROUGH MASONRY OR CONCRETE WALLS AND SHALL BE 24 GAUGE GALVANIZED STEEL NO MORE THAN 1/2" GREATER IN DIAMETER THAN THE OUTSIDE DIAMETER OF THE CONDUIT. WHEN LOCATED IN NON-RATED STRUCTURES, CAULK CONDUIT SLEEVE WITH STONE WOOL. WHEN LOCATED IN FIRE RATED STRUCTURES, PROVIDE U.L. LISTED FIRE STOPPING SYSTEM. SEE FIRE STOPPING SECTION OF THIS SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

28. ALL BOXES SHALL BE COVERED WITH OUTLET BOX PROTECTOR, OR SIMILAR DEVICE/METHOD TO KEEP DIRT/DEBRIS FROM ENTERING BOX, CONDUIT OR PANELS. IF DIRT/DEBRIS DOES GET IN, IT SHALL BE REMOVED PRIOR TO PULLING WIRES.

29. ALL BOXES INSTALLED OUTDOORS SHALL BE SUITABLE FOR OUTDOOR INSTALLATIONS, GASKETED, SCREW COVER AND PAINTED AS DIRECTED BY THE ARCHITECT WITH WEATHERPROOF PAINT TO MATCH BUILDING.

30. ALL CONDUIT ENTRIES TO OUTDOOR MOUNTED PANELS, CABINETS, BOXES, ETC., SHALL BE MADE USING MYERS "SCRU-TITE" HUBS SERIES ST.

31. PROVIDE NYLON OR A 1/8-INCH O.D. POLYETHYLENE ROPE, RATED AT 250 POUNDS TENSILE STRENGTH, IN ALL CONDUITS MORE THAN 5 FEET IN LENGTH LEFT EMPTY FOR FUTURE USE. NOT LESS THAN 5 FEET OF ROPE SHALL BE LEFT AT EACH END OF THE CONDUIT. TAG ALL LINES WITH A PLASTIC TAG AT EACH END INDICATING THE TERMINATION/STUB LOCATION OF THE OPPOSITE END OF THE CONDUIT.

32. ALL MULTIPLE CONDUIT RUNS WITHIN SUSPENDED CEILINGS SHALL BE SUSPENDED FROM BUILDING STRUCTURE BY MEANS OF UNISTRUT HANGERS/RACK. CONDUIT SHALL NOT BE ALLOWED TO LAY ON CEILING OR BE SUPPORTED FROM CEILING SUSPENSION WIRES OR OTHER SUSPENSION SYSTEM. SUPPORT CONDUIT TO STRUCTURE ABOVE SUSPENDED CEILINGS 8" MINIMUM ABOVE CEILING TO ALLOW REMOVAL OF CEILING TILE. MAINTAIN TWO INCH CLEARANCE ABOVE RECESSED LIGHT FIXTURES.

33. ALL EXPOSED CONDUITS AND SUPPORT HARDWARE SHALL BE PAINTED TO MATCH THE FINISH OF THE WALL OR CEILING TO WHICH IT IS SUPPORTED.

34. WHERE CONDUITS OR WIREWAYS CROSS SEISMIC JOINTS, PROVIDE APPROVED FLEXIBLE CONDUIT CONNECTION OR APPROVED EXPANSION/DEFLECTION FITTING TO ALLOW FOR DISPLACEMENT OF CONDUIT IN ALL THREE AXES. CONNECTION SHALL ALLOW FOR MOVEMENT IN ACCORDANCE WITH DESIGN OF SEISMIC JOINT. NON-METALLIC RACEWAYS CROSSING EXPANSION JOINTS OR OTHER AREAS OF POSSIBLE STRUCTURAL MOVEMENT SHALL MAKE PROVISION FOR 3-WAY MOVEMENT AT SUCH POINTS BY MEANS OF EXPANSION/DEFLECTION FITTINGS. FITTINGS SHALL BE INSTALLED IN THE CENTER OF THEIR AXES OF MOVEMENT AND SHALL NOT BE DEFLECTED TO MAKE PART OF A CONDUIT BEND, OR COMPRESSED OR EXTENDED TO COMPENSATE FOR INCORRECT CONDUIT LENGTH. INSTALL FLEXIBLE CONDUIT CONNECTION(S) OR APPROVED EXPANSION/DEFLECTION FITTING(S) COMPLETE WITH GROUND JUMPERS. WHERE NECESSARY, PROVIDE APPROVED EXPANSION JOINTS TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION OF CONDUIT(S). INSTALL EXPANSION JOINTS COMPLETE WITH GROUND JUMPERS.

35. SEAL ALL CONDUITS WHERE TERMINATION IS SUBJECT TO MOISTURE OR WHERE CONDUIT PENETRATES EXTERIOR WALL, FLOOR OR ROOF, IN REFRIGERATED AREAS, CLASSIFIED (HAZARDOUS AREAS) AND AS INDICATED ON THE DRAWINGS.

36. EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR ELSEWHERE IN THESE SPECIFICATIONS, BENDS IN FEEDER AND BRANCH CIRCUIT CONDUIT 2 INCHES OR LARGER SHALL HAVE A RADIUS OR CURVATURE OF THE INNER EDGE, EQUAL TO NOT LESS THAN TEN (10) TIMES THE OUTSIDE DIAMETER OF THE CONDUIT EXCEPT WHERE SWEEPING VERTICALLY INTO A BUILDING WHERE SWEEP RADIUS EQUALS TEN (10) TIMES CONDUIT DIAMETER, UNDERGROUND COMMUNICATIONS AND BUILDING INTERCONNECT CONDUITS 3 INCHES OR LARGER SHALL HAVE A MINIMUM 12'-6" RADIUS OR CURVATURE OF THE INNER EDGE. FOR THE SERVING UTILITIES, RADIUS BENDS SHALL BE MADE PER THEIR RESPECTIVE SPECIFICATIONS.

37. TAG ALL EMPTY CONDUITS AT EACH ACCESSIBLE END WITH A PERMANENT TAG IDENTIFYING THE PURPOSE OF THE CONDUIT, FOOTAGE END-TO-END, AND THE LOCATION OF THE OTHER END. IN WET, CORROSIVE OUTDOOR OR UNDERGROUND LOCATIONS, USE BRASS, BRONZE, OR COPPER 16 GAUGE TAGS SECURED TO CONDUIT ENDS WITH #16 OR LARGER GALVANIZED WIRE. INSCRIBE ON THE TAGS, WITH STEEL PUNCH DIES, CLEAR AND COMPLETE IDENTIFYING INFORMATION.

38. THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL APPLY TO UNDERGROUND CONDUITS:

a. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC (PQLYVINYL CHLORIDE) UNLESS OTHERWISE INDICATED ELSEWHERE IN THESE SPECIFICATIONS OR AS REQUIRED PER CEC, ARTICLE 517.13.

b. FOR ALL COMMUNICATIONS CONDUITS 2" AND LARGER AND FEEDERS 100 AMPS OR GREATER, PROVIDE WITH A MINIMUM 3" INCH, (2,000 LB) CONCRETE ENVELOPE, 2" INCH MINIMUM SEPARATION BETWEEN CONDUITS, INSTALLED AT DEPTH OF NOT LESS THAN 24" BELOW GRADE. (PROVIDE CONCRETE ENCASEMENT AND/OR GREATER MINIMUM CONDUIT DEPTH AS REQUIRED BY THE UTILITY COMPANIES.) CONDUIT SEPARATION WITHIN A DUCT BANK SHALL BE MAINTAINED USING PLASTIC SPACERS LOCATED AT 5'-0" INTERVALS. WHERE POWER AND COMMUNICATION CONDUITS ARE RUN IN A COMMON TRENCH, A 12" INCH MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN POWER AND COMMUNICATION CONDUITS OR AS REQUIRED BY UTILITY COMPANIES.

c. IN ALL CASES, WHERE ANY CONDUIT(S) PASS UNDER A BUILDING SLAB OR FOOTING, THE ELECTRICAL CONTRACTOR WILL PROVIDE A BENTONITE CLAY OR CONCRETE BARRIER THAT CONFORMS TO THE HEIGHT AND WIDTH OF THE TRENCH EXCAVATION AND IS A MINIMUM OF 18" THICK. IN ALL CASES, WHERE CONDUIT(S) PASS THRU A SLEEVE IN A FOOTING OR OTHER FOUNDATION ELEMENT, THE ELECTRICAL CONTRACTOR WILL PROVIDE A BENTONITE CLAY OR CONCRETE BARRIER BETWEEN THE SLEEVE AND THE CONDUIT(S) SURROUNDING THE CONDUIT(S) FOR THE ENTIRE DEPTH OF THE SLEEVE. THE BARRIER IS REQUIRED TO PREVENT PASSAGE OF MOISTURE UNDER OR THRU THE SLAB OR FOOTING VIA THE TRENCH OR SLEEVE.

d. WHERE UNDERGROUND CONDUIT PASSES UNDER A BUILDING SLAB, CONCRETE ENCASEMENT MAY NOT BE REQUIRED, EXCEPT AS REQUIRED ABOVE. CONTACT THE ENGINEER FOR WRITTEN DIRECTION PRIOR TO OMITTING ANY ENCASEMENT.

e. UNDERGROUND CONDUITS, WHICH TERMINATE INSIDE BUILDING(S) BELOW GRADE, SUCH AS IN A BASEMENT LEVEL, OR WHICH SLOPE SO THAT WATER MIGHT FLOW INTO INTERIOR BUILDING SPACES, SHALL BE SEALED AT THE POINT OF PENETRATION WITH A MODULAR CONDUIT SEAL (LINK-SEAL OR EQUAL BY ROX SYSTEMS). CONDUIT/CONDUIT SEALING SYSTEM PENETRATIONS OF WATERPROOFING MEMBRANES/SYSTEMS ON EXISTING STRUCTURES SHALL BE COMPLETELY RESTORED AS REQUIRED TO MAINTAIN MEMBRANE/SYSTEM MANUFACTURER AND INSTALLER WARRANTEE FOR THE INSTALLATION. ALL CONDUITS SHALL BE PROVIDED WITH A 4% SLOPE AWAY FROM BUILDINGS. ALL CONDUITS SHALL BE INSTALLED SUCH THAT THE WATER CANNOT ACCUMULATE IN THE CONDUIT AND SUCH THAT WATER DRAINS INTO THE NEAREST MANHOLE, PULL BOX OR VAULT AND NOT INTO THE FACILITY. IN INSTANCES WHERE GRADE CHANGES OR ELEVATION DIFFERENCES PREVENT SLOPING OF CONDUIT AWAY FROM A BUILDING INTO THE NEAREST MANHOLE, PULL BOX OR VAULT OR WHERE ACCUMULATION OF WATER IN A MANHOLE, PULL BOX OR VAULT MAY RESULT IN WATER TRAVELING INTO THE FACILITY, CONDUITS SHALL BE SEALED INTERNALLY AT EACH END OF EACH CONDUIT USING CONDUIT SEALING BUSHING, SIZED AS REQUIRED FOR THE CONDUCTORS CONTAINED WITHIN THE CONDUIT (O-Z GEDNEY #CSBG 100PSIG WITHSTAND OR EQUAL). IN ALL CASES, INSTALL PLUGS OR CAPS IN SPARE (EMPTY) CONDUITS AT BOTH ENDS OF EACH CONDUIT (JACKMOON OR EQUAL) PREVENTING BOTH WATER AND GAS FROM ENTERING THE FACILITY VIA THE CONDUITS.

f. INCLUDE A SEPARATE INSULATED GREEN GROUND CONDUCTOR SIZED PER CEC, IN EACH UNDERGROUND ELECTRICAL FEEDER/BRANCH CIRCUIT.

g. ALL UNDERGROUND CONDUITS WITH CIRCUITS RATED AT 40 AMPS OR GREATER AND ALL UNDERGROUND COMMUNICATIONS CONDUITS SHALL BE PROVIDED WITH A METALLIC MARKER TAPE LOCATED 12 INCHES BELOW THE FINISHED GRADE.

h. WHERE UNDERGROUND CONDUITS SWEEP INTO/THRU SLABS, UTILIZE PVC 90 DEGREE SWEEPS THAT TRANSITION, VIA FEMALE PVC ADAPTER TO GRC COUPLING MOUNTED FLUSH IN SLAB. GRC COUPLINGS SHALL BE 1/2 LAP TAPED WITH 20 MIL TAPE. IF THE DISTANCE OF THE CONDUIT RUN BETWEEN A SWEEP AND THE NEXT CONNECTING SWEEP, PULLBOX, VAULT OR MANHOLE EXCEEDS 150 FT THEN THE SWEEP SHALL BE CONCRETE ENCASED. EXCEPTIONS:

h.a. COMMUNICATIONS CONDUITS SHOWN TERMINATING AT A FINISHED FLOOR SHALL HAVE AN ADDITIONAL 4" HIGH GRC NIPPLE EQUIPPED WITH A BUSHING, REMOVABLE CONDUIT PLUG, LABELING TAG AND PULL ROPE. TIE OFF PULL ROPE TO CONDUIT PLUG.

h.b. UTILITY CONDUIT SWEEPS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY.

i. ALL PVC CONDUIT SHALL BE GLUED FOR A WATER AND GAS TIGHT INSTALLATION. THE CONTRACTOR SHALL USE APPROPRIATE SOLVENT ON ALL JOINTS PRIOR TO GLUING CONDUIT AND FITTINGS TOGETHER.

B. INSTALLATION OF 600-VOLT CONDUCTORS:

1. ALL ELECTRICAL WIRE, INCLUDING SIGNAL CIRCUITS, SHALL BE INSTALLED IN CONDUIT.

2. ALL CIRCUITS AND FEEDER WIRES FOR ALL SYSTEMS SHALL BE CONTINUOUS FROM OVERCURRENT PROTECTIVE DEVICE OR SWITCH TO TERMINAL OR FARTHEST OUTLET. NO JOINTS SHALL BE MADE EXCEPT IN PULL, JUNCTION OR OUTLET BOXES, OR IN PANEL OR SWITCHBOARD GUTTERS.

a. UTILIZE PREINSULATED "WINGED" SPRING TYPE CONNECTORS, 3M COMPANY AS REQUIRED FOR SPLICES AND TAPS IN CONDUCTORS #6 AWG AND SMALLER. WHEN A SPRING CONNECTOR IS USED IN AN UNDERGROUND ENVIRONMENT OR WHEN SUBJECT TO MOISTURE, UTILIZE A 3M COMPANY EPOXY RESIN CONNECTOR SEALING PACK TO SEAL THE SPRING CONNECTOR.

b. WIRES #4 AWG AND LARGER AWG SHALL BE JOINED TOGETHER AS FOLLOWS:

b.a. WHEN LOCATED IN AN UNDERGROUND ENVIRONMENT OR WHEN SUBJECT TO MOISTURE, THE SPLICE SHALL BE MADE WITH COMPRESSION CONNECTOR AND SEALED BY A 3M, OR EQUAL, PST COLD SHRINK CONNECTOR INSULATOR.

b.b. WHEN LOCATED IN AN INTERIOR ENVIRONMENT, THE SPLICE SHALL BE MADE WITH AN ILSCO OR EQUAL DUAL RATED, INSULATED SPLICER-REDUCER CONNECTOR OR MULTI-TAP CONNECTOR-LISTED FOR USE WITH 75/90 DEGREE CELSIUS RATED CONDUCTORS.

c. CONNECTIONS TO BUSBAR SHALL BE MADE WITH DUAL-RATED COPPER/ALUMINUM ONE-PIECE COMPRESSION LUGS. PARALLELED CONDUCTOR CONNECTIONS SHALL BE BY MECHANICAL LUGS.

3. THOROUGHLY CLEAN ALL CONDUIT AND WIRE-WAYS AND SEE THAT ALL PARTS ARE PERFECTLY DRY BEFORE PULLING ANY WIRES.

4. INSTALL UL APPROVED FIXTURE WIRE FROM ALL LIGHTING FIXTURE LAMP SOCKETS INTO FIXTURE OUTLET OR JUNCTION BOX.

5. FOR 20 AMPERE BRANCH CIRCUIT WIRING, INCREASE #12 CONDUCTORS TO #10 FOR 120 VOLT CIRCUITS LONGER THAN 100 FEET AND FOR 277 VOLT CIRCUITS LONGER THAN 150 FEET, MINIMUM. SEE DRAWING SCHEDULE FOR ADDITIONAL INFORMATION.

6. CONDUCTOR SUPPORT. PROVIDE CONDUCTOR SUPPORTS AS REQUIRED BY CODES AND RECOMMENDED BY CABLE MANUFACTURER. WHERE REQUIRED, PROVIDE CABLE SUPPORTS IN VERTICAL CONDUITS AND PROVIDE LOWER END OF CONDUIT WITH A VENTILATOR.

C. GROUNDING/BONDING:

1A. GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICALE 250.

1B. PROVIDE GROUNDING AND BONDING FOR ENTIRE ELECTRIC INSTALLATION AS SHOWN ON PLANS, AS LISTED HEREIN AND AS REQUIRED BY APPLICABLE CODES. INCLUDED, BUT NOT LIMITED TO, ARE ITEMS THAT REQUIRE GROUNDING/BONDING:

a. CONDUIT, RACEWAYS AND CABLE TRAYS.

b. NEUTRAL OR IDENTIFIED CONDUCTORS OF INTERIOR WIRING SYSTEM.

c. PANELBOARDS, DISTRIBUTION BOARDS, SWITCHGEAR AND SWITCHBOARDS.

d. NON-CURRENT CARRYING METAL PARTS OF FIXED EQUIPMENT.

e. TELEPHONE DISTRIBUTION EQUIPMENT.

f. INVERTERS, UPS, PDU, RDC, TRANSFER SWITCH AND GENERATOR SYSTEMS.

g. RAISED FLOORING.

h. ANTENNAS.

i. LIGHTNING PROTECTION SYSTEMS.

j. METAL PIPING INSTALLED IN OR ATTACHED TO A BUILDING/STRUCTURE.

k. METALLICALLY ISOLATED STRUCTURAL STEEL.

l. METALLICALLY ISOLATED UNDERGROUND METAL WATER PIPING.

m. ELEVATOR HYDRAULIC PISTON/LIFT CASE.

1. IN MULTI-OCCUPANCY BUILDINGS, CONTRACTOR SHALL BOND METAL WATER PIPING SYSTEMS INSTALLED IN, UNDER OR ATTACHED TO A BUILDING AND/OR STRUCTURE SERVING INDIVIDUAL OCCUPANCIES WHERE THE PIPING SYSTEM(S) ARE METALLICALLY ISOLATED FROM EACH OTHER. PER CEC, ART. 250.104(A)(2) & (4), THE BONDING CONDUCTOR SHALL BE SIZED PER TABLE 250.122 AND CONNECTED TO THE SWITCHBOARD/PANELBOARD SERVING THAT SUITE/OCCUPANCY.

2. USE OF GROUND RODS: FURNISH AND INSTALL REQUIRED NUMBER OF 3/4" X 10' COPPER CLAD GROUND RODS TO MEET SPECIFIED RESISTANCE, ALL REQUIRED GROUNDING WIRES, CONDUIT AND CLAMPS. THE SIZE OF THE GROUNDING CONDUCTORS SHALL BE NOT LESS THAN THAT SET FORTH IN THE LATEST EDITION OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, STATE OF CALIFORNIA AND CEC, UNLESS OTHERWISE INDICATED. RODS SHALL BE INSTALLED SUCH THAT AT LEAST 10 FEET OF LENGTH IS IN CONTACT WITH THE SOIL, WHERE ROCK BOTTOM IS ENCOUNTERED, THE ELECTRODE SHALL BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30 INCHES DEEP. THE UPPER END OF THE ELECTRODE SHALL BE FLUSH WITH OR BELOW GROUND LEVEL UNLESS THE ABOVE GROUND END AND THE GROUNDING ELECTRODE CONDUCTOR ATTACHMENTS ARE PROTECTED AGAINST PHYSICAL DAMAGE. UNLESS OTHERWISE NOTED, CONNECTION TO THE GROUNDING ELECTRODE CONDUCTOR MAY BE BY COMPRESSION TYPE OR EXOTHERMIC PROCESS CONNECTOR. MECHANICAL CONNECTORS SHALL NOT BE USED.

3. GROUNDING SYSTEM CONNECTION:

a. COMPRESSION CONNECTORS SHALL BE UNPLATED COPPER, MANUFACTURED BY BURNDY, OR APPROVED EQUAL, DESIGNED SPECIFICALLY FOR THE INTENDED CONNECTION.

b. EXOTHERMIC WELD-TYPE CONNECTORS SHALL BE 'CADWELD' MANUFACTURED BY ERICO PRODUCTS, OR APPROVED EQUAL, DESIGNED SPECIFICALLY FOR THE INTENDED CONNECTION.

c. MECHANICAL CONNECTORS SHALL NOT BE USED.

5. ISOLATED GROUND RECEPTACLES SHALL HAVE AN INSULATED GROUND WIRE CONNECTED BETWEEN THE RECEPTACLE AND THE PANELBOARD ISOLATED GROUND BUS. UNLESS OTHERWISE NOTED, THIS GROUND WIRE SHALL NOT BE GROUNDED AT ANY OTHER POINT, AND SHALL BE DISTINGUISHED FROM OTHER GROUND WIRES BY A CONTINUOUS YELLOW STRIPE.

6. PROVIDE SEPARATE GREEN EQUIPMENT GROUND CONDUCTOR

PUBLIC ADDRESS SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES
- A. INTERCOM EQUIPMENT.
- B. INTERCOM CABLE.
- C. ACCESSORIES.

1.2 RELATED REQUIREMENTS
- A. ELECTRICAL GENERAL SPECIFICATION SECTION 2.1, U - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES.

1.3 SUBMITTALS
- A. SHOP DRAWINGS: INDICATE CABLE ROUTING AND CONNECTIONS.
- B. PRODUCT DATA: FOR EACH ITEM OF EQUIPMENT.
- C. MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- D. PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL LOCATIONS OF DEVICES AND WIRING.
- E. OPERATION DATA: INCLUDE INSTRUCTIONS FOR ROUTINE OPERATION OF MASTER AND REMOTE STATIONS.
- F. MAINTENANCE DATA: INCLUDE INSTRUCTIONS FOR MINOR TROUBLESHOOTING, PREVENTIVE MAINTENANCE, AND CLEANING.

1.4 QUALITY ASSURANCE
- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE TYPE OF PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS OF DOCUMENTED EXPERIENCE.
- B. SUPPLIER QUALIFICATIONS: COMPANY AUTHORIZED BY MANUFACTURER AND SPECIALIZING IN SUPPLYING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- C. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN INSTALLING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- D. PRODUCTS: LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.
- E. PRODUCT LISTING ORGANIZATION QUALIFICATIONS: AN ORGANIZATION RECOGNIZED BY OSHA AS A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

PART 2 PRODUCTS

2.1 INTERCOM SYSTEM
- A. EXISTING TELECENTER U AS MANUFACTURED BY RAULAND.
- B. INTERCOM SYSTEM: PRIVATE VOICE COMMUNICATION BETWEEN LOCATIONS INDICATED ON DRAWINGS.
- C. CONFIGURATION: DIRECT-CONNECTED, KEYED INTERCOM SYSTEM.
- D. SEQUENCE OF OPERATION: MASTER SELECTS ANY OR ALL REMOTE STATIONS BY ENTERING ONE DIGIT NUMBER ASSOCIATED WITH THAT STATION OR ALL CALL SPEAKER/MICROPHONE STATION SELECTS ANY MASTER STATION BY ENTERING ONE DIGIT NUMBER ASSOCIATED WITH THAT STATION.
- E. INTERCONNECTION WITH PUBLIC TELEPHONE SYSTEM: DIAL ONE DIGIT NUMBER ASSOCIATED WITH OUTGOING LINE FOR INTERCONNECTION WITH NO RESTRICTION.

2.2 COMPONENTS
- A. MATCH EXISTING COMPONENTS.
  1. PROVIDE EXPANSION TO THE EXISTING TELECENTER U SYSTEM AND EXISTING EQUIPMENT.
- B. PRODUCT: TCC3022 ZONE PAGE AMPLIFIER MODULE AS MANUFACTURED BY RAULAND.
- C. PRODUCT: TCC2022 TELECENTER U ZONE PAGING MODULE AS MANUFACTURED BY RAULAND
- D. PRODUCT: BAF2X2L6RJ DROP-IN CEILING SPEAKER AS MANUFACTURED BY RAULAND.
- E. PRODUCT: USO880-ACC1000-ACC1012 RECESSED WALL SPEAKER AS MANUFACTURED BY RAULAND.
- F. PRODUCT: ACC1411-ACC1105 SURFACE MOUNTED SPEAKER AS MANUFACTURED BY RAULAND.
- G. PRODUCT: ACC3011S-ACC3011FBB-TCC3011S COMBINATION SPEAKER/DIGITAL CLOCK AS MANUFACTURED BY RAULAND.

2.3 ACCESSORIES
- A. REQUIRED EQUIPMENT.
  1. TERMINAL CABINETS AS REQUIRED.
  2. PUNCH BLOCKS AND STAND OFF AS REQUIRED.
  3. TELEPHONY INTERFACE DEVICE(S) FOR FXO/FXS ANALOG PORT CONNECTIVITY.
  4. WIRE AND CABLE REQUIRED FOR ANY NEW DEVICES.

PART 3 EXECUTION

3.1 EXAMINATION
- A. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK.
- B. VERIFY FIELD MEASUREMENTS ARE AS INDICATED ON DRAWINGS.
- C. VERIFY THAT REQUIRED UTILITIES ARE AVAILABLE, IN PROPER LOCATION, AND READY FOR USE.
- D. BEGINNING OF INSTALLATION MEANS INSTALLER ACCEPTS CONDITIONS.

3.2 INSTALLATION
- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.3 FIELD QUALITY CONTROL
- A. PROVIDE THE SERVICES OF THE MANUFACTURER'S TECHNICAL REPRESENTATIVE TO MAKE FINAL CONNECTIONS TO UNITS, PREPARE AND START SYSTEMS, AND PERFORM FIELD INSPECTION AND TESTING.
- B. PERFORM OPERATIONAL TEST ON COMPLETED INSTALLATION TO VERIFY PROPER OPERATION.
- C. REPLACE EQUIPMENT, COMPONENTS, AND WIRING TO ELIMINATE AUDIBLE NOISE, CLICKS, POPS, OR HUM WHEN SYSTEM IS IN STANDBY OR OPERATION.

3.4 ADJUSTING
- A. ADJUST CONTROLS AND CONFIGURATION SWITCHES FOR OPERATION AS INDICATED.

3.5 DEMONSTRATION
- A. PROVIDE SYSTEMS DEMONSTRATION AND INSTRUCTIONS. ALLOW MINIMUM OF TWO HOURS.
- B. PROVIDE THE SERVICES OF THE MANUFACTURER'S FIELD REPRESENTATIVE TO DEMONSTRATE SYSTEM OPERATION TO DESIGNATED DISTRICT PERSONNEL.
- C. CONDUCT WALKING TOUR OF PROJECT AND BRIEFLY DESCRIBE FUNCTION, OPERATION, AND MAINTENANCE OF EACH COMPONENT.
- D. USE SUBMITTED OPERATION AND MAINTENANCE MANUAL AS REFERENCE DURING DEMONSTRATION AND TRAINING.

3.6 MAINTENANCE
- A. PROVIDE A SEPARATE MAINTENANCE CONTRACT FOR SPECIFIED MAINTENANCE SERVICE.
- B. PROVIDE SERVICE AND MAINTENANCE OF INTERCOM SYSTEM FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

END OF SECTION

STRUCTURED CABLING SYSTEM SPECIFICATIONS

PART 1 - GENERAL

1.1 GENERAL INTRODUCTION
- A. THE WORK SHALL CONSIST OF THE DESIGN, PROVISION, TERMINATION, TESTING AND DOCUMENTATION OF A COMPLETE AND FULLY FUNCTIONAL STRUCTURED HIGH PERFORMANCE COPPER AND OPTICAL FIBER CONNECTION COMMUNICATIONS CABLING SYSTEM. THE INSTRUCTIONS IN THIS SECTION ARE SPECIFIC TO COMMUNICATIONS INSTALLATIONS AND SHOULD BE READ IN CONJUNCTION WITH OTHER CONTRACT DOCUMENTS AS APPLICABLE. WORK SHALL PROVIDE DATA SYSTEMS COMPLETE TO INCLUDE, BUT NOT BE LIMITED TO, JACKS, CABLING, PATHWAYS, EQUIPMENT, WIRELESS ACCESS POINTS (WAP), LABOR, ETC. AS NOTED ON THE DRAWINGS AND INDICATED IN THE BID DOCUMENTS. THE PROJECT REQUIRES THE REWORK OF AN EXISTING IDF TO INSTALL NEW CATEGORY 6 CABLING AND FROM A NEW CATEGORY 6 RATED PATCH PANEL TO EACH WORKSTATION OUTLET INDICATED ON THE PLANS. FIBER OPTIC CABLING INTO THE IDF IS EXISTING AND NO ADDITIONAL FIBER OPTIC EQUIPMENT IS REQUIRED.

1.2 QUALIFICATIONS
- A. THE DATA CABLING SYSTEM INSTALLATION WORK DETAILED IN THIS SECTION SHALL BE CARRIED OUT BY A SPECIALIST INSTALLER COMPANY. THE INSTALLER SHALL BE CERTIFIED BY THE SYSTEM MANUFACTURER (OR MANUFACTURERS) IN THE INSTALLATION AND TESTING OF THE CABLING SYSTEM.
- B. THE INSTALLER SHALL HAVE A PROVEN TRACK RECORD IN THE FIELD OF TELEPHONE AND DATA HIGH PERFORMANCE "CATEGORY 6" COPPER) CABLING SYSTEM INSTALLATION. THE INSTALLER SHALL HAVE COMPLETED AT LEAST THREE PREVIOUS INSTALLATIONS OF COMPARABLE SIZE, COMPLEXITY AND MANPOWER WITHIN THE LAST THREE YEARS. EACH INSTALLATION SHALL UTILIZE COMPONENTS, INSTALLATION PRACTICES AND TESTING PROCEDURES EQUIVALENT TO THOSE SPECIFIED IN THIS DOCUMENT.
- C. THE INSTALLER SHALL HOLD A VALID STATE CONTRACTORS LICENSE FOR THE DURATION OF THE PROJECT. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND OTHER REQUIREMENTS FOR PERFORMING WORK ON THIS PROJECT. ALL COSTS ASSOCIATED WITH OBTAINING PERMITS AND OTHER DOCUMENTATION SHALL BE INCLUDED IN THE BID SUM FOR THE PROJECT.

1.3 MANUFACTURER'S COMPLETE SYSTEMS
- A. THE CABLING SYSTEM SPECIFIED IN THIS DOCUMENT SHALL BE A "PANDUIT" SYSTEMS HARDWARE AND BELDEN UTP COPPER CABLE END-TO-END SOLUTION EXCEPT WHERE STATED OTHERWISE COMPLYING WITH THE DISTRICT STANDARDS FOR VOICE AND DATA CABLING SYSTEM.

1.4 JOB CONDITIONS
- A. PRIOR TO BIDDING, VISIT THE SITE AND DETERMINE ALL EXISTING CONDITIONS AFFECTING WORK. THE BIDDER SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE THEMSELVES WITH THE TYPE OF CONSTRUCTION TO BE USED, AND THE NATURE AND EXTENT OF WORK PROVIDED BY OTHER TRADES.
- B. VERIFY DIMENSIONS AND THE CORRECT LOCATION OF HARDWARE BEFORE PROCEEDING WITH THE INSTALLATION OF HARDWARE, CABLING AND/OR CONNECTIONS.
- C. NOTIFY THE OWNERS' REPRESENTATIVE IN WRITING IMMEDIATELY ON DISCOVERY OF DIMENSIONAL DISCREPANCIES AND OTHER CONDITIONS DETRIMENTAL TO PROPER PERFORMANCE OF THE WORK.
- D. THE CONTRACTOR SHALL NOTE THAT THE SITE IDF IS AN EXISTING CONDITION AND WILL REQUIRE COMPLETE REWORK TO ALLOW ALL NEW EQUIPMENT AND CABLING TO BE INSTALLED ALONG WITH EXISTING EQUIPMENT. ALL WORK, MATERIALS AND LABOR SHALL BE PART OF THE CONTRACTORS BASE BID.

1.5 LABELING AND NUMBERING SCHEME
- A. LABELING OF THE CABLING SYSTEMS SHALL BE IN ACCORDANCE WITH DISTRICT STANDARDS AS NOTED WITHIN THE CABLING AND PATHWAY PORTION OF THESE SPECIFICATIONS.

1.6 WARRANTY
- A. INSTALLER TO PROVIDE A WARRANTY FOR ONE YEAR FROM NOTICE OF COMPLETION ON ALL MATERIALS AND WORKMANSHIP INSTALLED OR SUPPLIED AS PART OF THE CABLING SYSTEM.
- B. THE INSTALLER SHALL ALSO SUPPLY AN EXTENDED PERFORMANCE WARRANTY, AS OFFERED BY THE COMPONENTS' MANUFACTURER(S).

1.7 QUALITY
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE PROVISION AND INSTALLATION OF ALL COMPONENTS AS SPECIFIED HEREIN. THE CONTRACTOR SHALL PROVIDE ALL TOOLS, EQUIPMENT, FIXTURES, APPLIANCES, ANCILLARY PIECE PARTS AND HARDWARE AS NECESSARY TO COMPLETE THE ASSEMBLY AND INSTALLATION AS REQUIRED. THE OWNER'S REPRESENTATIVE MAY CONDUCT SCHEDULED OR UNSCHEDULED INSPECTIONS OF THE CONTRACTOR'S WORK AT ANYTIME DURING CONSTRUCTION. ALL WORK INCLUDED IN THE SCOPE ASSIGNED TO THE CONTRACTOR THAT IS ASSOCIATED WITH THIS PROJECT SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER, INSTALLED AND ASSEMBLED PLUMB, LEVEL AND SQUARE. THE PRODUCT SHALL BE DELIVERED TO THE OWNER FINISHED, COMPLETE, AND READY TO OPERATE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- B. ALL INSTALLATION WORK SHALL BE COMPLETED TO THE STANDARD OF THE SAMPLES APPROVED BY THE OWNERS REPRESENTATIVE DURING THE SUBMITTAL PROCESS. ANY PRODUCTS NOT INSTALLED TO THE QUALITY DETAILED IN THESE SPECIFICATIONS AND APPROVED IN THE SUBMITTAL PROCESS SHALL BE REWORKED BY THE INSTALLER TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

1.8 STANDARDS
- A. ALL MATERIALS PROVIDED BY THE INSTALLER SHALL MEET THE REQUIREMENTS OF THE FOLLOWING WHERE APPLICABLE:
  1. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
  2. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
  3. UNDERWRITERS LABORATORIES, INC. (UL)
  4. ETL
- B. ALL PRODUCTS, SERVICES AND DOCUMENTATION PROVIDED BY THE INSTALLER SHALL MEET THE REQUIREMENTS OF THE FOLLOWING WHERE APPLICABLE:
  1. CALIFORNIA ELECTRIC CODE (CEC)
  2. RELEVANT STATE ELECTRIC AND FIRE CODES
  3. ANSI/EIA/TIA 568-B COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING STANDARD
  4. ANSI/EIA/TIA 569-A COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES
  5. ANSI/EIA/TIA 606 THE ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS
  6. ANSI/EIA/TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS - AUGUST 1994
  7. BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI) PUBLICATIONS
     - a. TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
     - b. NETWORK DESIGN REFERENCE MANUAL
     - c. TELECOMMUNICATIONS CABLING INSTALLATION MANUAL (TDDM)
  8. MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION GUIDELINES
  9. ISO/IEC 11801: GENERIC CABLING FOR CUSTOMER PREMISES
- C. ALL PUBLICATIONS REFERRED TO IN THIS DOCUMENT SHALL BE THE LATEST EDITION

1.9 SUBMITTALS
- A. ALL SUBMITTALS SHALL BE SENT PER DIVISION 01 REQUIREMENTS. EACH SUBMITTAL SHOULD BE PROVIDED NO LATER THAN SIX WEEKS PRIOR TO THE WORK ASSOCIATED WITH THAT SUBMITTAL TO ALLOW TIME FOR SUBMITTAL REVIEW.
- B. PROJECT REFERENCES:
  1. SUBMIT FOR APPROVAL, REFERENCES FOR A MINIMUM OF THREE SIMILAR PROJECTS SUCCESSFULLY UNDERTAKEN AND COMPLETED WITHIN THE LAST THREE YEARS. THESE PROJECTS SHOULD BE A SIMILAR SCALE, COMPLEXITY AND HAVE SIMILAR TIME SCALES AS THIS PROJECT.
  2. PROVIDE PROJECT NAME AND ADDRESS, CLIENT CONTACT NAME AND TELEPHONE NUMBER AND CONSTRUCTION MANAGER NAME AND TELEPHONE NUMBER. PROVIDE A BRIEF DESCRIPTION OF EACH PROJECT INDICATING TYPES OF SYSTEM INSTALLED, QUANTITIES AND CONFIGURATIONS OF OUTLETS AND PROJECT TIME SCALES.
  3. AT LEAST TWO OF THE REFERENCES SHALL BE LOCATED IN SOUTHERN CALIFORNIA AND SHALL BE AVAILABLE FOR THE OWNERS REPRESENTATIVE AND OTHER MEMBERS OF THE DESIGN TEAM TO VISIT AND INSPECT THE INSTALLATION, SHOULD, IN THE OPINION OF THE OWNERS REPRESENTATIVE, THIS BE NECESSARY.
  4. THESE REFERENCES ARE INTENDED TO SHOW THAT THE INSTALLER HAS SUCCESSFULLY COMPLETED SIMILAR PROJECTS. FAILURE TO PRODUCE SATISFACTORY REFERENCES MAY RESULT IN THE BID BEING DEEMED NON-COMPLIANT.
- C. PERSONNEL TRAINING:
  1. SUBMIT FOR APPROVAL RECORDS REGARDING THE MANAGEMENT, INSTALLATION AND TESTING PERSONNEL. THESE RECORDS SHALL INCLUDE RESUMES, TRAINING CERTIFICATES, PREVIOUS WORK EXPERIENCE DETAILS (ESPECIALLY ON REFERENCE PROJECTS) AND OTHER RELEVANT INFORMATION.
  2. SUBMIT RECORDS TO CONFIRM THAT THE PERSONNEL WHO WILL BE EMPLOYED IN AN INSTALLATION CAPACITY ARE SUITABLY TRAINED IN THE INSTALLATION AND MAINTENANCE OF EQUIPMENT AND SYSTEMS OF THE TYPE BEING PROVIDED.
  3. SUBMIT RECORDS TO CONFIRM THAT THE PERSONNEL THAT WILL BE RESPONSIBLE FOR TESTING THE SYSTEM ARE SUITABLY TRAINED IN THE OPERATION OF THE TEST EQUIPMENT BEING USED IN THIS PROJECT.
  4. THESE RECORDS ARE REQUIRED TO ENSURE THAT THE INSTALLER IS ABLE TO CARRY OUT ALL WORK IN A COMPETENT MANNER. FAILURE TO PRODUCE SATISFACTORY TRAINING DOCUMENTATION MAY RESULT IN THE BID BEING DEEMED NON-COMPLIANT.
- D. CABLING DIAGRAM
  1. SUBMIT, FOR APPROVAL, A COMPLETE CABLING DIAGRAM. THE DIAGRAM SHALL BE BASED ON THE SINGLE LINE DRAWING INCLUDED IN THE CONSTRUCTION DOCUMENTS. IT SHALL BE UPDATED TO SHOW QUANTITIES AND PART NUMBERS FOR ALL COMPONENTS INCLUDING PATCH PANELS, CABLE, CONDUIT, ETC. AND ALL OTHER ASSOCIATED COMPONENTS.
- E. TEST EQUIPMENT
  1. SUBMIT, FOR APPROVAL, DETAILS OF EACH ITEM OF TEST EQUIPMENT TO BE USED TO TEST THE OPTICAL FIBER AND COPPER COMPONENTS. INCLUDE PATCH CORDS AND OTHER SPECIALIZED COMPONENTS.
- F. PRODUCT LITERATURE/DATA SHEETS:
  1. SUBMIT FOR APPROVAL MANUFACTURER'S PRODUCT DATA SHEETS FOR EACH COMPONENT OF THE TELEPHONE AND DATA CABLING SYSTEMS, CERTIFY THAT THE DATA SHEETS DEPICT THE COMPONENTS TO BE PROVIDED BY THE INSTALLER TO MAKE UP THE COMPLETE SYSTEM AS DESCRIBED IN THIS SPECIFICATION.

PART 2 - PRODUCTS AND RELATED REQUIREMENTS

2.1 HORIZONTAL AND LINK COPPER CABLING

SUPPORTING CODES AND STANDARDS DOCUMENTS

A NON-INCLUSIVE LIST OF KEY DOCUMENTS IS PRESENTED BELOW AS A MINIMUM:
- ANSI/EIA/TIA-568-B: COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
- ANSI/EIA/TIA-569-A: COMMERCIAL BUILDING STANDARD FOR TELECOM PATHWAYS AND SPACES
- ANSI/EIA/TIA-606: ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS
- ANSI/EIA/TIA-607: COMMERCIAL BUILDING GROUNDING/BONDING REQUIREMENTS
- CEC: CALIFORNIA ELECTRICAL CODE
- ISO/IEC 11801: GENERIC CABLING FOR CUSTOMER PREMISES
- BICSI: TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDDM)

THE LATEST REVISION OF EACH DOCUMENT, AND OTHER RELATED DOCUMENTS, IS TO BE CONSIDERED THE ONE IN FORCE AT THE TIME OF SYSTEM CONSTRUCTION AND DELIVERY TO THE DISTRICT. THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE APPLICABLE DOCUMENTS IN CONTENT AND INTENT AS WELL.
- A. IF ANY APPLICABLE DOCUMENTS ARE IN CONFLICT, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. THE CONTRACTOR IS REQUIRED TO ADVISE THE DISTRICT INFORMATION TECHNOLOGY (IT) REPRESENTATIVE OF ANY CONFLICT THAT COULD RESULT IN WORK DEFICIENCIES.
- B. CONTRACTOR REQUIREMENTS (MINIMUM)

CONTRACTORS BIDDING ON DISTRICT WORK PROJECTS SHALL POSSESS AS A MINIMUM THE FOLLOWING QUALIFICATIONS:
1. A MANUFACTURER'S CERTIFIED INSTALLER/CONTRACTOR AGREEMENT IN FORCE AT THE TIME OF BID SUBMITTAL AND THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. A CURRENT SUPPORT DOCUMENT SHALL BE INCLUDED IN THE CONTRACTOR'S BID RESPONSE.
2. AUTHORIZATION TO FACILITATE THE APPLICABLE MANUFACTURER'S SYSTEM WARRANTY.
3. THE CONTRACTOR SHALL ENSURE THAT AT LEAST 50% OF ALL TECHNICIANS INSTALLING A COPPER SYSTEM HAVE RECEIVED A MANUFACTURER'S TRAINING CERTIFICATE FOR COPPER SYSTEMS.
4. THE CONTRACTOR SHALL ENSURE THAT 100% OF THE TECHNICIANS INSTALLING A FIBER OPTIC SYSTEM HAVE RECEIVED A MANUFACTURER'S TRAINING CERTIFICATE FOR FIBER OPTIC SYSTEMS.
5. THE CONTRACTOR SHALL HAVE COPIES OF THE TECHNICIANS' CERTIFICATES AVAILABLE FOR INSPECTION BY THE DISTRICT IT REPRESENTATIVE UPON REQUEST.
6. CONTRACTOR SHALL HOLD IN GOOD STANDING A CALIFORNIA C-7 LICENSE. A COPY OF THE LICENSES TO BE INCLUDED IN THE CONTRACTOR'S BID RESPONSE.
7. THE CONTRACTOR MUST HAVE COMPLETED A MINIMUM OF THREE PROJECTS OF SIMILAR SIZE AND SCOPE FOR PUBLIC ENTITIES WITHIN THE PAST FIVE YEARS.

- C. CABLING SYSTEM
  1. ALL COPPER COMPONENTS OF THE CABLING SYSTEM ARE EITHER TO BE OF A SINGLE MANUFACTURER, OR OF A MANUFACTURER PARTNERSHIP UNDER A SYSTEM TRADE NAME OFFERING A SINGLE POINT OF CONTACT FOR THE DISTRICT IN THE EVENT OF A WARRANTY CLAIM. THE DISTRICT HAS CHOSEN THE BELDEN 10 GIG UTP COPPER CABLING SOLUTION AS THE BASELINE FOR ALL EQUIVALENTS TO BE MEASURED. CONTRACTORS SUBMITTING OTHER MANUFACTURER SYSTEMS FOR CONSIDERATION MUST MEET THIS SYSTEM IN PHYSICAL AND ELECTRONIC PERFORMANCE AS WELL AS UTILITY AT A MINIMUM.
- D. CABLE
  1. INSTALLATION OF CABLING SHALL BE OF CONTINUOUS LENGTH FROM EACH TERMINATION POINT.
  2. NO LENGTH OF CABLE SHALL EXCEED 285 FEET (TESTED LENGTH).
  3. THE BEND RADIUS OF ANY CABLE SHALL NOT EXCEED 4 TIMES THE DIAMETER OF THE CABLE.
  4. SHOULD THE CABLE BECOME KINKED WHILE BEING INSTALLED, THE CONTRACTOR SHALL NOT ATTEMPT TO REPAIR THE CABLE, BUT SHALL REMOVE AND REPLACE THE ENTIRE RUN. ALL CABLE RUNS ARE POTENTIAL INSPECTION ITEMS FOR THE DISTRICT IT REPRESENTATIVE.
  5. THE CABLE JACKET SHALL BE MAINTAINED AS CLOSE TO THE POINT OF TERMINATION AS POSSIBLE.
  6. CABLE COLOR PER DISTRICT STANDARDS.
  7. THE CABLE PAIRS SHALL NOT BE UNTWISTED MORE THAN 1/2" FROM THE TERMINATION POINT.
  8. ALL CABLING IS TO BE INSTALLED IN ITS OWN PATHWAY AND FULLY SUPPORTED.
  9. CABLING SHALL BE INSTALLED WITH NO MORE THAN A 4-FOOT SPACE BETWEEN SUPPORTS.
  10. CABLING CAN BE INSTALLED IN PATHWAYS USING J-HOOKS OR CONDUIT, AS LONG AS THE PATHWAY IS LOW-VOLTAGE CABLING ONLY, THE PATHWAY IS APPROPRIATELY BONDED TO THE BUILDING GROUNDING SYSTEM, AND THE DATA SYSTEM CABLES ARE BUNDLED SEPARATELY FROM OTHER LOW VOLTAGE CABLING.
  11. FIBER OPTIC CABLING SHALL BE CORNING OR EQUAL. MULTI-MODE CABLE SHALL BE OM3 CATEGORY & SINGLE-MODE CABLE SHALL BE OS2 CATEGORY.
- E. TERMINATIONS
  1. JACK MODULE COLORS PER DISTRICT STANDARDS. JACK MODULES SHALL BE OF INSULATION-DISPLACEMENT TERMINATION CONSTRUCTION, AND MAY OFFER MASS TERMINATION OF ALL FOUR PAIRS SIMULTANEOUSLY. IN ADDITION, A JACK MODULE MUST BE AVAILABLE AS PART OF THE CABLING SYSTEM, AND FACILITATE THE SAME SYSTEM PERFORMANCE AND WARRANTIES, THAT CAN BE UTILIZED IN EXISTING WORKSTATION OUTLET FACEPLATES FROM OTHER MANUFACTURERS.
  2. CABLING SHALL BE DRESSED CLEANLY AND FULLY SUPPORTED VIA VELCRO STRAPS AND CABINET/RACK SUPPORTS. CABLE TIES ARE NOT TO BE UTILIZED.
  3. CABLING SLACK CAN BE PLACED IN THE CABINET/RACK AREA AS WELL AS THE CEILING AREAS IF FULLY SUPPORTED BY THE PROPER PATHWAY DEVICE. NO MORE THAN 4 FEET PER HORIZONTAL RUN SHALL BE STORED.
  4. THE PORTS ARE TO BE POPULATED BEGINNING WITH PORT ONE IN SEQUENCE, LEAVING NO OPEN PORTS.
  5. UNUSED PORTS ARE TO BE FILLED WITH A BLANK MODULE INSERT.
- F. WORKSTATION OUTLETS
  1. FACEPLATES ARE TO BE IN TWO-PORT AND FOUR-PORT SINGLE GANG CONFIGURATIONS. THE FACEPLATES MUST INCLUDE LABELS AND LABEL COVERS. THE DISTRICT HAS STANDARDIZED ON WHITE COLOR FACEPLATES.
  2. THE OUTLET FACEPLATE SHALL BE AFFIXED TO THE WALL OR SURFACE MOUNT TERMINATION BOX WITH TWO COLOR MATCHING SCREWS.
  3. ALL EMPTY PORTS SHALL BE FILLED WITH A COLOR MATCHING BLANK MODULE.
  4. CABLING SHALL BE COILED IN THE WALL OR SURFACE MOUNT BOXES WITH NO LESS THAN 6" AND NO MORE THAN 12" OF SLACK CABLE.
- G. ACCESS POINT CABLING
  1. A SINGLE-PORT SURFACE MOUNT TERMINATION BOX SHALL BE UTILIZED TO HOUSE A SINGLE JACK MODULE FOR ACCESS POINT CONNECTIVITY. THE TERMINATION BOX SHALL BE WHITE.
- H. PATCH CORDS
  1. SMALL DIAMETER CATEGORY 6 PATCH CORDS, AS MANUFACTURED BY SYSTIMAX (OR APPROVED EQUIVALENT) SHALL BE PROVIDED BY THE CONTRACTOR FOR THE OUTLET OR ACCESS POINT TERMINATION END AS WELL AS THE PATCH PANEL TERMINATION END. THE CONTRACTOR SHALL PROVIDE PATCH CORDS AT THE IDF. THESE PATCH CORDS FOR THE MOST PART SHALL BE 24" IN LENGTH OR AS REQUIRED.
  2. SMALL DIAMETER CATEGORY 6 PATCH CORDS, AS MANUFACTURED BY SYSTIMAX (OR APPROVED EQUIVALENT) UTILIZED FOR ACCESS POINT PATCH SHALL BE 12" IN LENGTH AND ENGAGED INTO THE ASSOCIATED TERMINATED JACK, THEN COILED AND LEFT TO BE ENGAGED INTO THE ACCESS POINT.
  3. THE PATCH CORDS SHALL BE THE SAME IN COLOR AND BE OF THE SAME MANUFACTURER AS THE CABLING SYSTEM.
  4. THE CONNECTOR END OF THE PATCH CORD SHALL PROVIDE A TANGLE-FREE LATCH DESIGN.
  5. A CATEGORY 6 SMALL DIAMETER, TANGLE-FREE LATCH DESIGN PATCH CORD FOR WORKSTATIONS IN 5 METER LENGTHS APPROPRIATE FOR THE SPECIFIC WORKSTATION SHALL BE DELIVERED TO THE DISTRICT.
- I. CABLE MANAGEMENT
  1. SEE CABINETS/RACKS REDRESSING REQUIREMENTS.
  2. REAR CABLE MANAGEMENT DEVICES TO SUPPORT CABLES TO THE POINT OF TERMINATION ARE TO BE UTILIZED. A TOWEL BAR STYLE BRACKET IS ACCEPTABLE AS LONG AS THE CABLES ARE NEATLY AND SECURELY ATTACHED VIA VELCRO STRAPS.
- J. LABELING
  1. ALL WORKSTATION OUTLETS, ACCESS POINTS, AND PATCH PANEL TERMINATION PORTS ARE TO BE LABELED WITH THE DISTRICT STANDARD LABELING SYSTEM.
- K. LABELING
  1. A WRAP-AROUND LABEL SHALL BE INSTALLED ON THE JACKET OF THE CABLE NO LESS THAN 4" AND NO MORE THAN 6" OUTSIDE THE ENCLOSURE AT EACH END OF THE CABLES. THE CABLES MUST BE EASILY IDENTIFIABLE BY VISUAL MEAN THE SPECIFIC IDF CABINET.
- L. SYSTEM TESTING AND CERTIFICATION
  1. ALL COMPONENTS SHALL BE INSPECTED BEFORE INSTALLATION TO ENSURE THE CORRECT ITEM IS BEING INSTALLED AND THE COMPONENT APPEARS TO BE WITHOUT FLAWS.
  2. ANY DEFECT OR SYSTEM FAILURE SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO REQUEST FOR FINAL INSPECTION.
  3. TESTING EQUIPMENT SHALL BE CALIBRATED NO LESS THAN TWELVE MONTHS PRIOR TO THE DATE OF TESTING. PROOF OF CERTIFICATION IS TO BE AVAILABLE TO THE DISTRICT IT REPRESENTATIVE UPON REQUEST.
  4. TEST RESULTS SHALL AUTOMATICALLY BE CALCULATED AND EVALUATED BY THE TESTING EQUIPMENT, UTILIZING THE MOST CURRENT PERFORMANCE AND TESTING STANDARDS AND THE MANUFACTURER'S SYSTEM PERFORMANCE PUBLISHED STATISTICS. TEST RESULTS SHALL BE PROVIDED WITHIN THREE CALENDAR WEEKS OF FINAL INSPECTION COMPLETION IN AN ELECTRONIC FORMAT THAT DOES NOT REQUIRE SPECIAL SOFTWARE TO REVIEW.
  5. COPPER SYSTEM
     - a. TESTING SHALL BE COMPLIANT WITH THE MOST RECENT LEVEL III REQUIREMENT FOR CATEGORY 6 TESTING.
     - b. TESTING SHALL BE DIRECTIONAL, SWEPT-FREQUENCY FOR THE FOLLOWING:
       - b1. ATTENUATION
       - b2. WIRE MAP
       - b3. ATTENTION TO CROSSTALK RADIO
       - b4. PAIR-TO-PAIR NEXT LOSS
       - b5. PSNEXT LOSS
       - b6. RETURN LOSS
       - b7. PAIR-TO-PAIR ELFEXT
       - b8. PSELFEXT
       - b9. PROPAGATION DELAY
       - b10. DELAY SKEW
       - b11. CABLE LENGTH
     - c. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE DISTRICT REPRESENTATIVE IDENTIFYING THE CABLE MANUFACTURER'S PUBLISHED NOMINAL VELOCITY OF PROPAGATION (NVP).
- M. WARRANTY
  1. CONTRACTOR SHALL WARRANT ALL COMPONENTS AND SYSTEMS FOR A MINIMUM OF ONE YEAR AFTER DATE OF FINAL INSPECTION.
  2. CONTRACTOR SHALL ALSO FACILITATE A MANUFACTURER'S SYSTEM WARRANTY CERTIFICATE FOR THE COPPER CABLING SYSTEM AND FIBER OPTIC CABLING SYSTEM FOR A MINIMUM OF 25 YEARS AND PROVIDE DOCUMENTATION IN SUPPORT THEREOF.
  3. THE WARRANTY SHALL APPLY TO ALL CURRENT AND FUTURE APPLICATIONS DESIGNED TO RUN ON THE DESIGNATED LINK OR CHANNEL CLASSIFICATION AS DEFINED IN THE COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARDS.
  4. THE WARRANTY SHALL INCLUDE ALL INDIVIDUAL COMPONENTS AND THE PERFORMANCE THEREOF TO MEET THE MANUFACTURER'S REQUIREMENTS AS A COMPONENT OF THE WARRANTED SYSTEM.
  5. THE WARRANTY SHALL GUARANTEE 10GIG ETHERNET SYSTEM PERFORMANCE, PLUS PREVIOUSLY IDENTIFIED HEADROOM.

REGISTERED PROFESSIONAL ENGINEER — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

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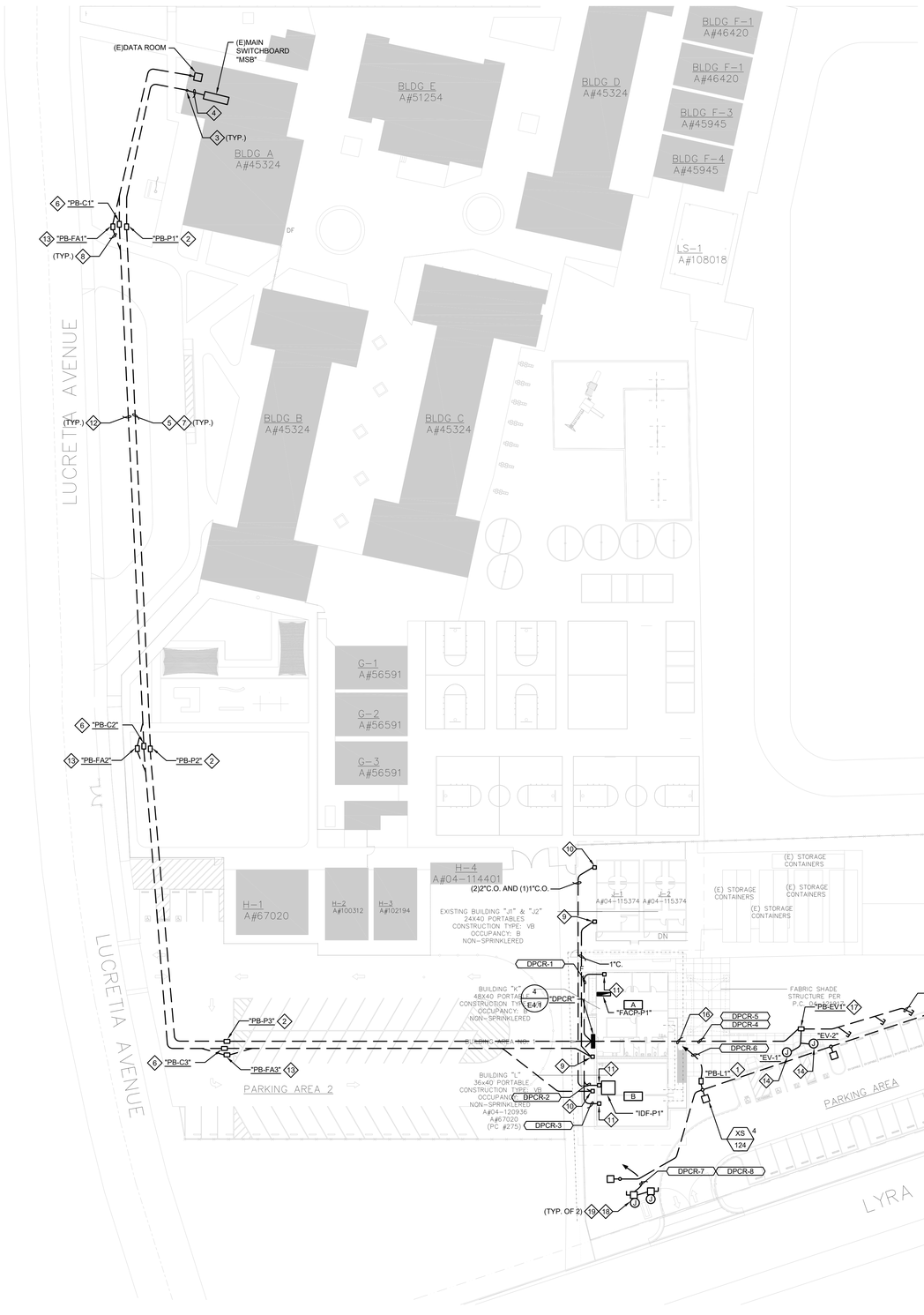
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario,



STAMPS

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — No. E 16592 — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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CONSULTANT BRANDING

DCGR ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

RUHNAU CLARKE ARCHITECTS

SHEET NOTES

1. PROVIDE AND INSTALL 1'x2'xDEPTH REQUIRED PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED RATED HEAVY DUTY BOLT-DOWN COVER ENGRAVED "LIGHTING". SET FLUSH WITH GRADE ON 6" COMPACTED CRUSHED ROCK.
2. PROVIDE AND INSTALL 2'x3'xDEPTH REQUIRED PRECAST CONCRETE PULLBOX WITH HEAVY DUTY BOLT-DOWN HINGED TRAFFIC RATED COVER ENGRAVED "POWER" SET ON 6" COMPACTED CRUSHED ROCK. TOP OF COVER TO BE 1" ABOVE FINISHED GRADE IN UNPAVED AREAS. TOP OF COVERS TO BE FLUSH WITH PAVED AND CONCRETE AREAS.
3. CONDUIT RISERS AT BUILDING EXTERIOR TO JUST UNDER CANOPY. PENETRATE INTO EXISTING BUILDING ACCESSIBLE CEILING SPACE AND TERMINATE AT EXISTING PANEL. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER SIZE
4. FEEDERS ROUTED UP IN CEILING SPACE.
5. SAWCUT, TRENCH, AND EXCAVATE AS REQUIRED TO INSTALL CONDUIT FEEDERS AS INDICATED. BACKFILL, TAMP, AND RESURFACE TO ORIGINAL CONDITION. POTHOLE AND HAND DIG AS REQUIRED. PROVIDE ALL NECESSARY SHORING FOR INSTALLATION.
6. PROVIDE AND INSTALL 2'X3'XDEPTH REQUIRED PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED METAL COVER ENGRAVED "COMMUNICATION". SET FLUSH WITH GRADE ON 6" COMPACTED CRUSHED ROCK.
7. REFER TO THE SINGLE LINE DIAGRAMS FOR FEEDER REQUIREMENTS.
8. REFER TO THE FIRE ALARM RISER DIAGRAM FOR CONDUIT SIZES AND CABLE REQUIREMENTS.
9. 6"X6"X4" NEMA 3R WALL MOUNTED PULLBOX FOR FIRE ALARM.
10. 18"X18"X6" NEMA 3R WALL MOUNTED PULLBOX FOR DATA AND PUBLIC ADDRESS.
11. PORTABLE BUILDING POWER PANEL. REFER TO THE SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
12. REFER TO THE COMMUNICATION RISER DIAGRAMS FOR CONDUIT SIZES AND CABLE REQUIREMENTS.
13. PROVIDE AND INSTALL 1'X2'XDEPTH REQUIRED PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED METAL COVER ENGRAVED "FIRE ALARM". SET FLUSH WITH GRADE ON 6" COMPACTED CRUSHED ROCK.
14. MAKE CONNECTION TO ELECTRIC VEHICLE CHARGING STATION PER THE MANUFACTURES REQUIREMENTS. VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO INSTALLATION.
15. 1 1/2"C.O. FOR FUTURE VEHICLE CHARGING STATION FROM STUB OUT TO INDICATED PULLBOX.
16. (2)2"C.O. FOR FUTURE VEHICLE CHARGING STATION BETWEEN PULLBOXES AND/OR SWITCHGEAR.
17. 2'x3'xDEPTH REQUIRED PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED METAL COVER ENGRAVED "EV POWER". SET FLUSH WITH GRADE ON 6" COMPACTED CRUSHED ROCK.
18. MAKE CONNECTION TO MARQUEE SIGN FOR POWER PER THE MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO INSTALLATION.
19. PROVIDE GROUND ROD AT MARQUEE. REFER TO 2/E-4.1.

CAUTION: EXISTING UNDERGROUND UTILITIES

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITY LINES INCLUDING ELECTRICAL SEWER, WATER, GAS, TELEPHONE, ETC. IN ADDITION, THE CONTRACTOR SHALL CAUTION ALL SUBCONTRACTORS THAT THE SITE AND PUBLIC PROPERTY CONTAINS UNDERGROUND UTILITY LINES. THE DRAWINGS SHOW DIAGRAMMATICALLY THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES WHERE INFORMATION IS AVAILABLE, BUT THE DRAWINGS ARE NOT EXACT AS TO THE QUANTITY, EXTENT OR LOCATION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL PHASES OF THE WORK TO LOCATE, IDENTIFY AND PROTECT EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL RECORD LOCATION OF, DISCONNECT AND CAP AS REQUIRED, AND REPAIR DAMAGE TO EXISTING UTILITIES WHICH ARE ENCOUNTERED AS A RESULT OF WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL MAINTAIN UTILITIES TO EXISTING ADJACENT BUILDING OR TEMPORARY SERVICE CONNECTIONS.

ELECTRICAL SITE PLAN — SCALE: 1" = 30'-0" — 1

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JURUPA UNIFIED SCHOOL DISTRICT

ELECTRICAL SITE PLAN

ES-1.1

14158

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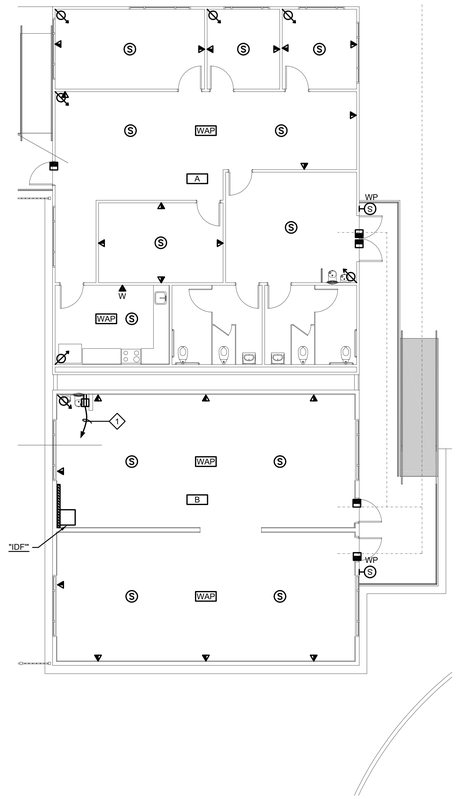
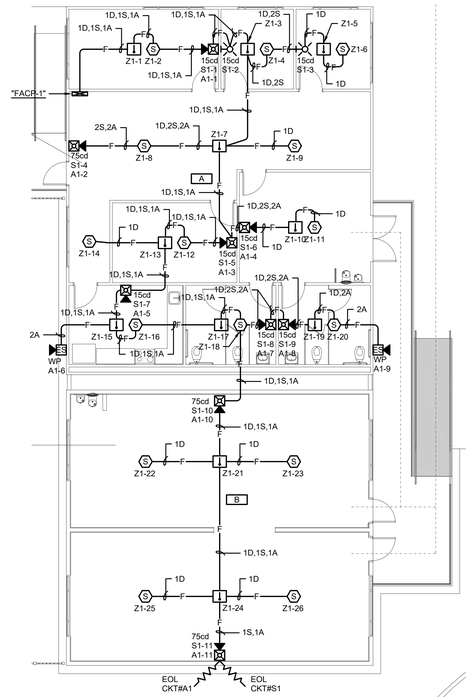


ELECTRICAL PLAN | SCALE: 1/8" = 1'-0" | 1



FIRE ALARM PLAN | SCALE: 1/8" = 1'-0" | 2

STAMPS

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — No. E 16592 — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

RUHNAU CLARKE ARCHITECTS

SHEET NOTES

1. ROUTE 120 VOLT CIRCUIT FROM PANEL AT REAR OF PORTABLE TO RECEPTACLE. ROUTE 3/4" CONDUIT WITH 2#12 AND 1#12 GROUND. PROVIDE AND INSTALL NEW 20 AMP 1 POLE CIRCUIT BREAKER TO MATCH EXISTING TYPE.

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JURUPA UNIFIED SCHOOL DISTRICT

ELECTRICAL PLAN AND FIRE ALARM PLAN

E-2.1

14158

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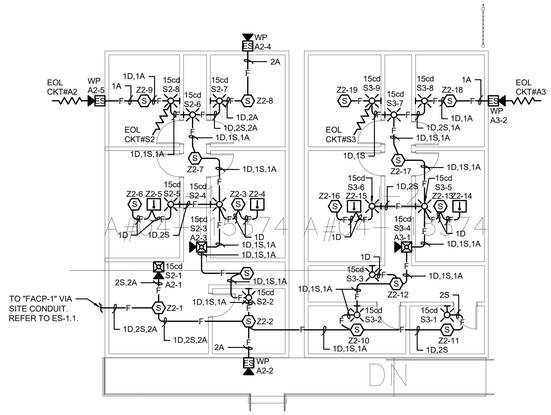

FIRE ALARM PLAN | SCALE: 1/8" = 1'-0" | 1

STAMPS

REGISTERED PROFESSIONAL ENGINEER — ERNEST NSING YAP — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA

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Ontario, Ca 91764
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RUHNAU CLARKE ARCHITECTS

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JURUPA UNIFIED SCHOOL DISTRICT

FIRE ALARM PLAN

E-2.2

14158

SEQUENCE OF OPERATION

ACTION \ DEVICE	SMOKE DETECTOR	HEAT DETECTOR	120VAC POWER FAILURE
SOUND CONTROL PANEL TROUBLE BUZZER - -	ON WIRING FAULT	ON WIRING FAULT	YES
ANNUNCIATE AT ADMINISTRATION BUILDING -	YES	YES	YES
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM OR TROUBLE) -	YES	YES	YES
ACTIVATE AUDIBLE/ VISUAL ALARM SIGNAL THROUGH - OUT BUILDINGS	YES	YES	NO
ALERT OFF-SITE MONITORING COMPANY - -	YES	YES	NO

FIRE ALARM WIRE LEGEND

SYMBOL	DESCRIPTION	TYPE
D	DATA LINE - INITIATING DEVICE	16/2 UNSHIELDED TWISTED PR (UTSP) DATA LOOP
P	POWER CIRCUIT	2#12 THWN
S	SIGNAL (STROBE) CIRCUIT	2#12 THWN
A	AUDIBLE (SPEAKER) CIRCUIT	2#16 THWN SHIELDED

* ALL WIRING USED IN CONDUIT ON THE EXTERIOR OF THE BUILDING SHALL BE U.L. LISTED FOR WET LOCATION.

FIRE ALARM LEGEND

FACP-1	FIRE ALARM CONTROL PANEL	FIRELITE: ES-200X CSFM #7165-0075:0500
EVAC	VOICE EVACUATION PANEL	FIRELITE: ECC-50/100 CSFM #6911-0075:0226
FAA	FIRE ALARM ANNUNCIATOR	FIRELITE: ANN-80 CSFM #7120-0075:0190
F	FIRE ALARM MANUAL PULL STATION, MOUNT TOP AT +48". STI 1200 OR 1230 WITHOUT HORN	FIRELITE: BG-12LX CSFM #7150-0075:0184
S	PHOTOELECTRIC SMOKE DETECTOR & BASE	FIRELITE: SD355 CSFM #7272-0075:0194
I	190° FIXED TEMPERATURE HEAT DETECTOR MOUNTED IN CEILING SPACE. SEE FIRE ALARM NOTE #23 ON THIS SHEET.	FIRELITE: H355HT CSFM #7270-0075:0195
15cd 30cd 75cd 110cd	FIRE ALARM MULTI-CANDELA STROBE LIGHT, MOUNT AT +80"A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.	SYSTEM SENSOR: SR CSFM #7125-1653:0186
15cd 30cd 75cd 110cd	MULTI-CANDELA COMBINATION SPEAKER/STROBE LIGHT, MOUNT AT +80"A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER. SPEAKER SHALL HAVE THE POWER TAP SET AT 1/2W U.N.O.	SYSTEM SENSOR: SPSR CSFM #7320-1653:0201
S WP	FIRE ALARM SPEAKER WEATHERPROOF, MOUNT AT +90"A.F.F. SPEAKER SHALL HAVE THE POWER TAP SET AT 2W U.N.O.	SYSTEM SENSOR: SPRK CSFM #7320-1653:0201
FAPS	FIRE ALARM REMOTE POWER SUPPLY	FIRELITE: FCPS-24S8 CSFM #7315-0075:0206
MM	MONITOR MODULE	FIRELITE: MMF-300 CSFM #7300-0075:0185
RM	RELAY MODULE	FIRELITE: CRF-300 CSFM #7300-0075:0185
SA1	INDICATES SIGNAL CIRCUIT #1 INDICATES BUILDING DESIGNATION "S" INDICATES STROBE CIRCUIT. "A" INDICATES SPEAKER CIRCUIT.	
Z1-XX	INDICATES ADDRESS NUMBER	
F	FIRE ALARM SYSTEM CONDUIT RUN (3/4" CONDUIT MINIMUM UNLESS INDICATED OTHERWISE ON DRAWINGS) AND REQUIRED WIRING.	BELDEN: FPLR CSFM #7161-0060:0103
FATC	24"L x 24"W x 6"D FIRE ALARM TERMINAL CABINET	

FIRE ALARM REQUIREMENTS

1. THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL CONTAIN THE FOLLOWING:
   - A. SHOP DRAWINGS: COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.
   - B. ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
   - C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS' MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBERS.
   - D. ORIGINAL COPIES OF MANUFACTURERS' SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED.
   - E. VOLTAGE DROP CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:
     1. POINT-TO-POINT OR OHMS LAW CALCULATIONS.
     2. IDENTIFICATION OF ZONE USED IN CALCULATIONS.
     3. VOLTAGE DROP PERCENT (NOT TO EXCEED MANUFACTURERS' REQUIREMENTS).

        NOTE: IF VOLTAGE DROP EXCEEDS 10% INDICATE MANUFACTURERS' LISTED OPERATING VOLTAGE RANGE(S) OR EQUIPMENT AND DEVICES.
     4. NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATION.
   - F. BATTERY TYPE(S), AMP HOURS AND LOAD CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION:
     1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER CONDITION -- I.E.:
        - A. ZONE MODULES
        - B. DETECTORS
        - C. OTHER DEVICES (IDENTIFY)
     2. ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING ALARM CONDITION -- I.E.:
        - A. ZONE MODULES
        - B. SIGNAL MODULES
        - C. DETECTORS
        - D. SIGNAL DEVICES
        - E. ANNUNCIATOR
        - F. OTHER DEVICES (IDENTIFY)
     3. NORMAL OPERATION + ALARM OPERATION
        - A. TOTAL AMP HOURS REQUIRED.
        - B. TOTAL AMP HOURS PROVIDED.

FIRE ALARM NOTES

1. SCOPE OF WORK: PROVIDE A COMPLETE AUTOMATIC FIRE ALARM SYSTEM WITH VOICE EVACUATION IN ACCORDANCE TO 2022 NFPA-72 AND CCR TITLE 24, PART 2, SECTION 907.2.3; 907.5.2.2.
2. A FIRE ALARM SYSTEM IS BEING INSTALLED IN OCCUPANCIES LISTED. PROVIDE NEW FCI FIRE ALARM CONTROL PANEL AS INDICATED.
3. PLANS AND SPECIFICATIONS FOR THE SYSTEM SHALL BE APPROVED BY DSA-FIRE AND LIFE SAFETY PRIOR TO SYSTEM INSTALLATION.
4. UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE MANUFACTURER AND OR INSTALLER SHALL SUPPLY THE OWNER WITH WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS-BUILT DRAWINGS, AND EQUIPMENT SPECIFICATIONS.
5. THE SYSTEM SHALL CONFORM TO TITLE 19 AND TITLE 24 AS APPLICABLE TO THIS PROJECT.
6. ALL THE DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
7. A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, SHALL BE APPROVED AND SIGNED BY THE DSA INSPECTOR OF RECORD.
8. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OR ARCHITECT/ENGINEER OF RECORD.
9. CONDUIT SYSTEM TO BE FURNISHED AND INSTALLED PER PLANS AND SPECIFICATIONS.
10. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.
11. PENETRATIONS OF FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH 2016 EDITION CALIFORNIA BUILDING CODE, CHAPTER 7.
12. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
13. ALL WIRING SHALL BE IN ACCORDANCE WITH THE C.E.C. AND AUTHORITIES HAVING JURISDICTION.
14. ALL FIRE ALARM CONDUIT SHALL BE 3/4"C. MIN., U.N.O. ALL FIRE ALARM CONDUIT INSTALLED UNDERGROUND SHALL BE 1"C. MIN. U.N.O. ALL FIRE ALARM CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
15. ALL AUDIBLE DEVICES SHALL BE IN SYNCHRONOUS.
16. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN SAME VIEW FROM EACH OTHER SHALL BE SYNCHRONIZED.
17. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
18. AUDIBLE DEVICES SHALL BE AT LEAST 15dBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10' OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECONDS. 5dBA MUST BE MAINTAINED.
19. AUDIBLE DEVICES SHALL SOUND A PRERECORDED MESSAGE AS DIRECTED BY THE OWNER.
20. COORDINATE EXACT LOCATION OF ALL CEILING FIRE ALARM DEVICES IN FIELD.
21. CIRCUIT LENGTH INDICATED ON DRAWINGS IS FOR PLAN CHECK PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT LENGTH.
22. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE C.E.C.
23. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC., AS REQUIRED. COORDINATE WITH ARCHITECT FOR ACCESS PANELS.
24. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
25. ALL WIRING, ANNUNCIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
26. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CFC 907.2.3.5 AND 907.6.6.4. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
27. ALL FIRE ALARM WIRING IN PULLBOXES SHALL BE ROUTED WITHIN INNERDUCT AND IDENTIFIED AS FIRE ALARM.
28. PROVIDE ACCESSIBLE OPERATING HARDWARE AT INITIATIVE DEVICE (e.g., NOT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST AND FORCE LESS THAN 5 LBS.)
29. SEE SHEET E3.2 FOR TYPICAL DEVICE MOUNTING HEIGHT DETAIL.
30. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
31. DSA ARCHITECT AND OWNER SHALL BE NOTIFIED MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
32. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
33. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
34. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE, DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6' OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
35. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
36. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR SURFACE RACEWAY, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
37. FIRE ALARM PANELS, REMOTES AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20lbs WITHOUT SPECIAL MOUNTING DETAILS.
38. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
39. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURES 7.8.2(a) - 7.8.2(f).
40. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATIONS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
41. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
42. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
43. THE INSTALLING CONTRACTOR SHALL PERFORM A VOICE MESSAGE INTELLIGIBILITY TEST USING INTELLIGIBILITY MEASUREMENT METHODS 1 AND/OR 2 TO COMPLY WITH NFPA-72 24.3.1 AND 18.4.10. INTELLIGIBILITY TEST SHALL BE WITNESSED BY THE INSPECTOR OF RECORD.
44. FIRE ALARM SYSTEM SHALL BE SUPERVISED BY AN APPROVED UL LISTED CENTRAL STATION, OR REMOTE STATION (UUFX) MONITORING COMPANY (UUJS).
45. SUPERVISORY MOTORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.

CARBON MONOXIDE EXEMPTION NOTE:

IT HAS BEEN VERIFIED THAT NO FUEL-BURNING APPLIANCES OR FUEL BURNING FIREPLACE WILL BE USED IN THE CLASSROOMS, NOR WILL THE CLASSROOM BE SUPPLIED BY A FORCES-AIR FURNACE.

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — No. E 16592 — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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DCGR ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

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FIRE ALARM SYMBOLS AND NOTES

E-3.1

14158

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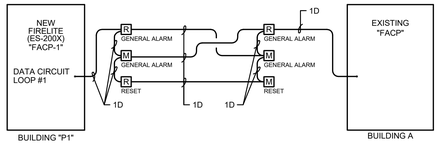
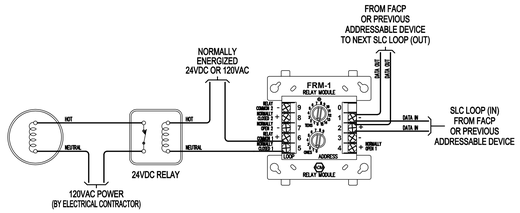
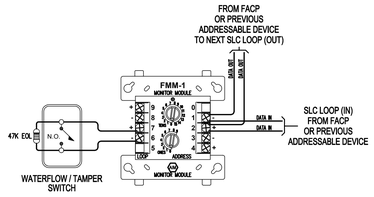


NOTE: AT EACH PANEL PROVIDE INSTRUCTION ON HOW TO RESET PANELS.

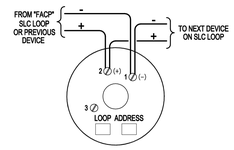
EXISTING FIRE ALARM CONTROL PANEL INTERFACE DETAIL



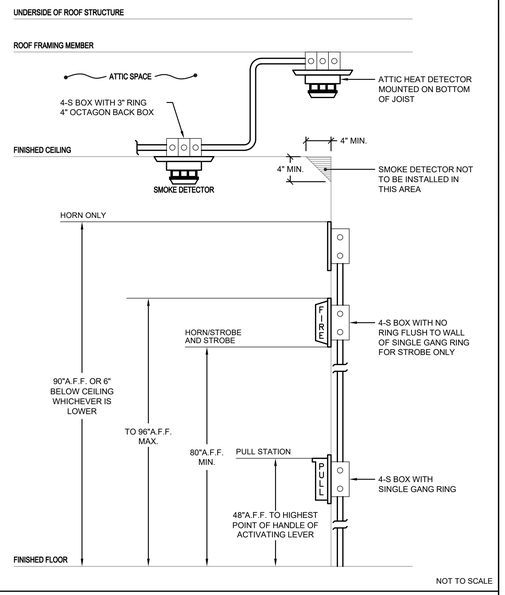
FRM-1 RELAY MODULE WIRING



FMM-1 MONITOR MODULE WIRING



ADDRESSABLE SMOKE/HEAT DETECTOR WIRING

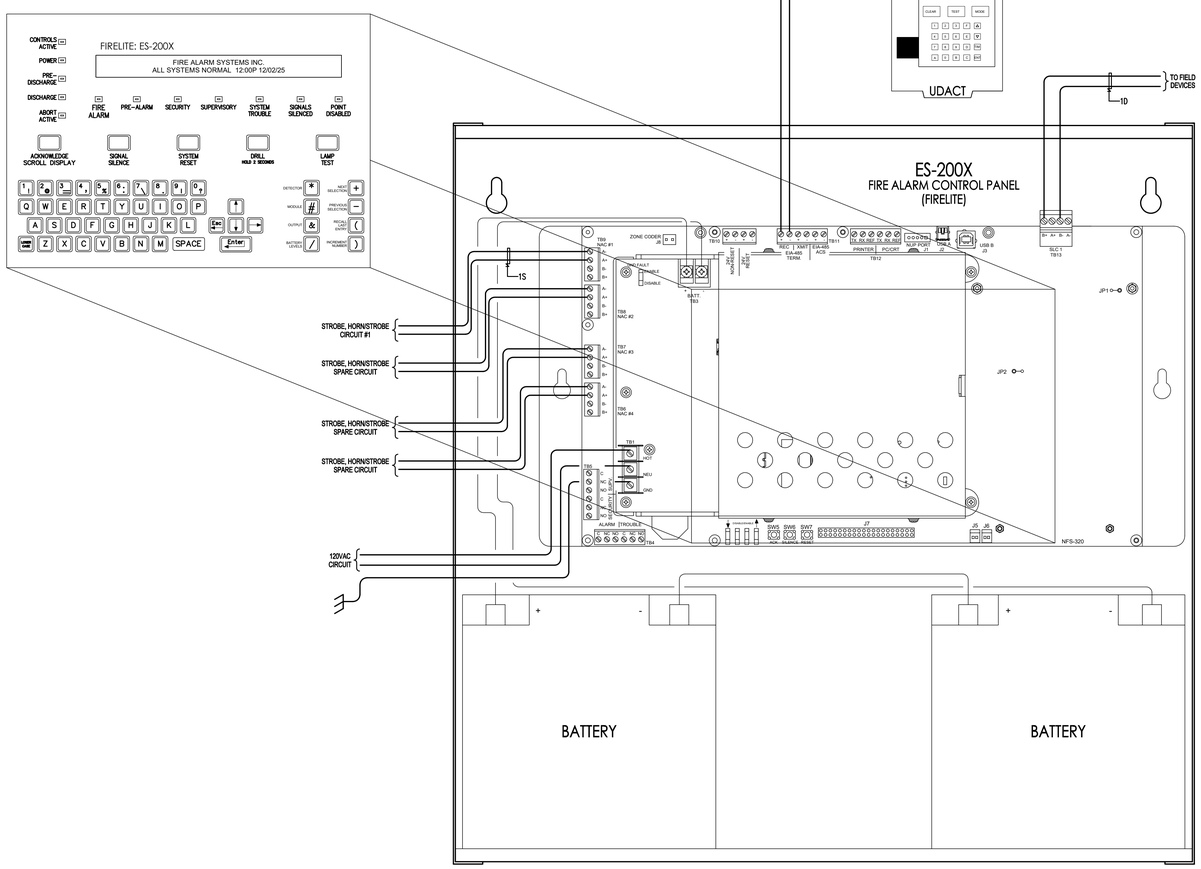


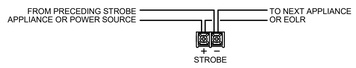
KEY NOTES:

1. THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FINISHED FLOOR (A.F.F.) (2022 NFPA 72 18.5.5.1)
2. ALL EXPOSED RACEWAY SHALL BE WIREMOLD, UNLESS OTHERWISE NOTED ON PLANS. DEPENDING ON WALL TYPE AND CONSTRUCTION.

NOT TO SCALE

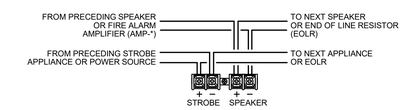
TYPICAL DEVICE MOUNTING HEIGHT DETAIL





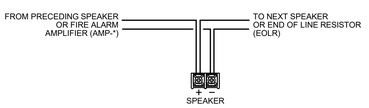
TYPICAL 2-WIRE STROBE WIRING DIAGRAM

NO SCALE



TYPICAL 4-WIRE SPEAKER/STROBE WIRING DIAGRAM

NO SCALE



TYPICAL 2-WIRE SPEAKER WIRING DIAGRAM

NO SCALE

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4750 E. Ontario Mills Pkwy
Ontario, Ca 91764
Ph.909.987.0017
Fax 909.980.7023

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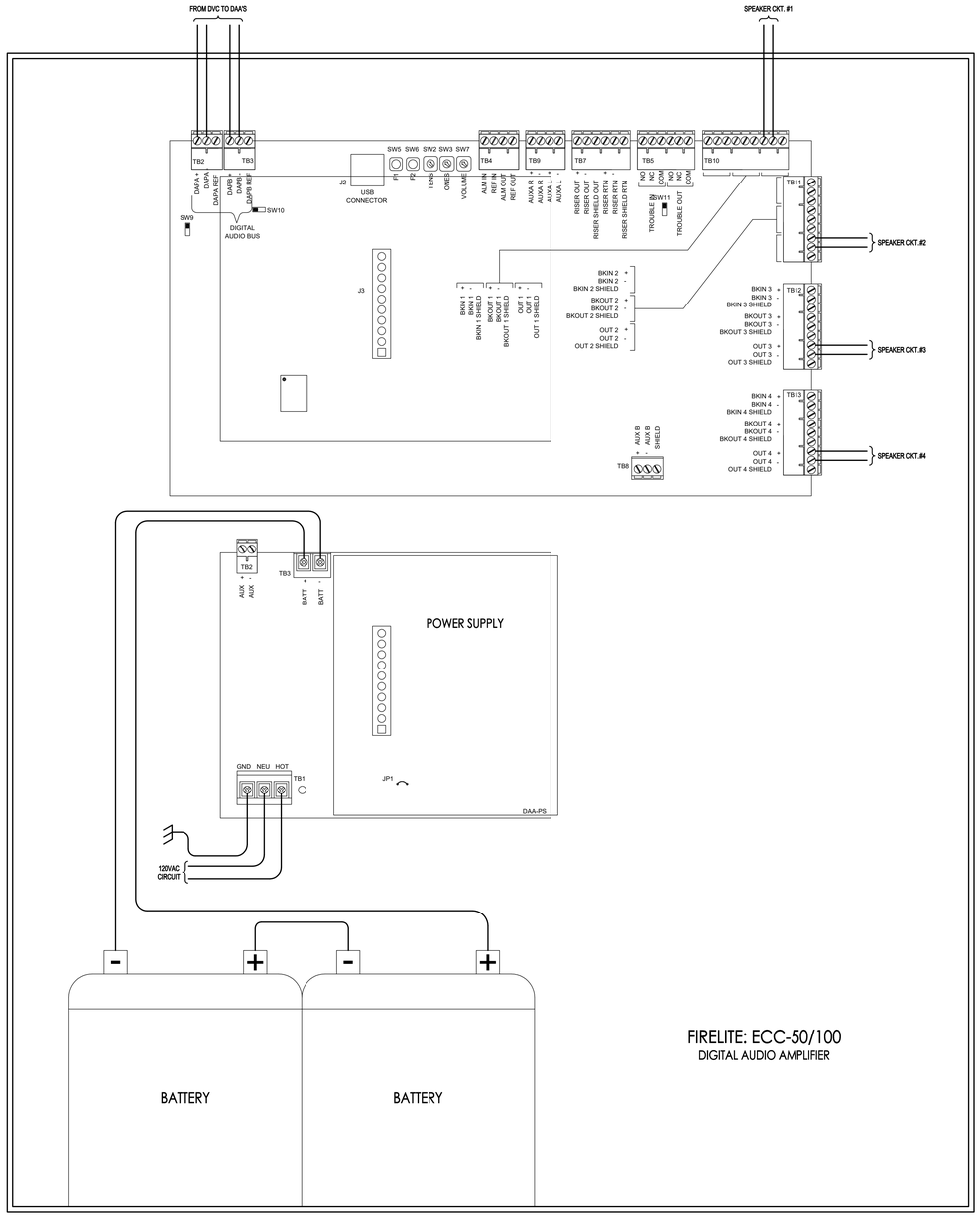
FIRE ALARM WIRING DIAGRAMS

E-3.2

14158



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FIRE ALARM WIRING DIAGRAMS

E-3.3

14158

ES-200X Battery Calculations
SKY COUNTRY ES MODULAR BLDG
FACP-1 Data Loops Z1,Z2 Signal Circuits S1,S2,S3

Description	Quantity		Standby (Amps)		Total Standby (Amps)		Alarm (Amps)	Total Alarm (Amps)
200X	1	x	0.250000		0.250000	x	0.257000	0.257000
CHG-75	1	x	0.040000		0.040000	x	0.000000	0.000000
# OF NACS IN USE	1	x	0.035000		0.035000	x	0.035000	0.035000
IPOTS-COM	1	x	0.040000		0.040000	x	0.041000	0.041000
ANN-80	1	x	0.050000		0.050000	x	0.100000	0.100000
BG-12LX PULL STATION	0	x	0.000375		0.000000	x	0.005000	0.000000
SD355 PHOTO SMOKE	30	x	0.000300		0.009000	x	0.006500	0.195000
H355 HEAT DETECTOR	0	x	0.000300		0.000000	x	0.006500	0.000000
H355HT HEAT DETECTOR	15	x	0.000300		0.004500	x	0.006500	0.097500
BEAM355 - BEAM DETECT.	0	x	0.002000		0.000000	x	0.008500	0.000000
D350RPL - DUCT DETECT.	0	x	0.026000		0.000000	x	0.087000	0.000000
MMF-300 MONITOR MODULE	0	x	0.000375		0.000000	x	0.005000	0.000000
CMF-300 CONTROL MODULE	0	x	0.000350		0.000000	x	0.006500	0.000000
CRF-300 RELAY MODULE	0	x	0.000230		0.000000	x	0.006500	0.000000
SR/SCW 15cd Strobe	16	x	0.000000		0.000000	x	0.066000	1.056000
SR/SCW 30cd Strobe	0	x	0.000000		0.000000	x	0.094000	0.000000
SR/SCW 75cd Strobe	0	x	0.000000		0.000000	x	0.158000	0.000000
SR/SCW 110cd Strobe	0	x	0.000000		0.000000	x	0.202000	0.000000
SPSR/SPSCW 15cd Spkr St.	9	x	0.000000		0.000000	x	0.066000	0.594000
SPSR/SPSCW 30cd Spkr St.	0	x	0.000000		0.000000	x	0.094000	0.000000
SPSR/SPSCW 75cd Spkr St.	3	x	0.000000		0.000000	x	0.158000	0.474000
SPSR/SPSCW 110cd Spkr St.	0	x	0.000000		0.000000	x	0.202000	0.000000
Total:					0.428500			2.849500

Battery Calculation	Time Multiplier				Amp Hours
Supervisory Hours	24	x	0.428500	=	10.284000
Alarm Hours	0.250	x	2.849500	=	0.712375
Total Amp Hours				=	10.996375
Demand Factor	1.250	x	10.996375	=	13.74546875
Battery Used (AH)				=	75.000000
Battery Spare (AH)				=	64.003625

ECC-50/100 Battery Calculations
SKY COUNTRY ES MODULAR BLDG
EVAC

Device Type	Quantity		Standby (Amps)		Total Standby (Amps)	Alarm (Amps)	Total Alarm (Amps)
1. System							
ECC-50/100 Primary console	1	x	0.272000		0.272000	0.446000	0.446000
EXX-50W-25V/70V*	1	x	0.100000		0.000000	0.235000	0.235000
ECC-50W-25V/70V (As Backup)	0	x	0.100000		0.000000	0.000000	0.000000
ECC-CE6 Ciruit Expander	0	x	0.020000		0.000000	0.189000	0.000000
ECC-RTZM	0	x	0.055000		0.000000	0.060000	0.000000
ECC-FFT Firefighter Telephone	0	x	0.120000		0.000000	0.230000	0.000000
2. Operator Interface Devices							
ECC-LOC Local Operator Console	0	x	0.085000		0.000000	0.100000	0.000000
ECC-RM Remote Microphone	0	x	0.050000		0.000000	0.064000	0.000000
ECC-RPU Remote Page Unit	0	x	0.050000		0.000000	0.068000	0.000000
Total:					0.272000		0.681000
3. Additional Amplifiers							
ECC-50DA	0	x	0.012000		0.000000	0.012000	0.000000
ECC-125DA	0	x	0.012000		0.000000	0.012000	0.000000
ECC-50BDA	0	x	0.012000		0.000000	0.012000	0.000000
Total Amplifiers:					0.000000		0.000000
4. Speakers (Max 50 Watts)							
1/4 Watt	0	x	0.000000		0.000000	0.017000	0.000000
1/2 Watt	10	x	0.000000		0.000000	0.330000	3.300000
3/4 Watt	0	x	0.000000		0.000000	0.050000	0.000000
1 Watt	0	x	0.000000		0.000000	0.068000	0.000000
2 Watt	3	x	0.000000		0.000000	0.132000	0.396000
Total Watts:					0.000000		3.696000
Battery Calculation	Time Multiplier				Amp Hours		
Supervisory Hours	24	x	0.272000	=	6.528000		
Alarm Hours	0.250	x	0.681000	=	0.17025		
Total Amp Hours				=	6.698250		
Demand Factor	1.250	x	6.698250	=	8.3728125		
Battery Used (AH)				=	18.000000		
Battery Spare (AH)				=	11.301750		

Voltage Drop Calculations
SKY COUNTRY ES MODULAR BLDG
FACP-1 Signal Circuit S1

Description	Quantity		Alarm (Amps)		Total Alarm (Amps)
SR/SCW 15cd Strobe	2	x	0.066000		0.132000
SR/SCW 30cd Strobe	0	x	0.094000		0.000000
SR/SCW 75cd Strobe	0	x	0.158000		0.000000
SR/SCW 110cd Strobe	0	x	0.202000		0.000000
SPSR/SPSCW 15cd Spkr St.	6	x	0.066000		0.396000
SPSR/SPSCW 30cd Spkr St.	0	x	0.094000		0.000000
SPSR/SPSCW 75cd Spkr St.	3	x	0.158000		0.474000
SPSR/SPSCW 110cd Spkr St.	0	x	0.202000		0.000000
Total Current Draw:				=	1.002000
Wire Size 14	0	x	4110	=	0
Wire Size 12	1	x	6530	=	6530
Wire Used Circular Mills				=	6530
Distance to End of Circuit:				=	214
Multiplier				=	21.6
Voltage				=	24
Multiplier				=	4.166
Percentage Voltage Drop				=	2.955

Voltage Drop Calculations
SKY COUNTRY ES MODULAR BLDG
FACP-1 Signal Circuit S2

Description	Quantity		Alarm (Amps)		Total Alarm (Amps)
SR/SCW 15cd Strobe	6	x	0.066000		0.396000
SR/SCW 30cd Strobe	0	x	0.094000		0.000000
SR/SCW 75cd Strobe	0	x	0.158000		0.000000
SR/SCW 110cd Strobe	0	x	0.202000		0.000000
SPSR/SPSCW 15cd Spkr St.	2	x	0.066000		0.132000
SPSR/SPSCW 30cd Spkr St.	0	x	0.094000		0.000000
SPSR/SPSCW 75cd Spkr St.	0	x	0.158000		0.000000
SPSR/SPSCW 110cd Spkr St.	0	x	0.202000		0.000000
Total Current Draw:				=	0.528000
Wire Size 14	0	x	4110	=	0
Wire Size 12	1	x	6530	=	6530
Wire Used Circular Mills				=	6530
Distance to End of Circuit:				=	176
Multiplier				=	21.6
Voltage				=	24
Multiplier				=	4.166
Percentage Voltage Drop				=	1.281

Voltage Drop Calculations
SKY COUNTRY ES MODULAR BLDG
FACP-1 Signal Circuit S3

Description	Quantity		Alarm (Amps)		Total Alarm (Amps)
SR/SCW 15cd Strobe	8	x	0.066000		0.528000
SR/SCW 30cd Strobe	0	x	0.094000		0.000000
SR/SCW 75cd Strobe	0	x	0.158000		0.000000
SR/SCW 110cd Strobe	0	x	0.202000		0.000000
SPSR/SPSCW 15cd Spkr St.	1	x	0.066000		0.066000
SPSR/SPSCW 30cd Spkr St.	0	x	0.094000		0.000000
SPSR/SPSCW 75cd Spkr St.	0	x	0.158000		0.000000
SPSR/SPSCW 110cd Spkr St.	0	x	0.202000		0.000000
Total Current Draw:				=	0.594000
Wire Size 14	0	x	4110	=	0
Wire Size 12	1	x	6530	=	6530
Wire Used Circular Mills				=	6530
Distance to End of Circuit:				=	220
Multiplier				=	21.6
Voltage				=	24
Multiplier				=	4.166
Percentage Voltage Drop				=	1.801

VOLTAGE DROP FORMULA

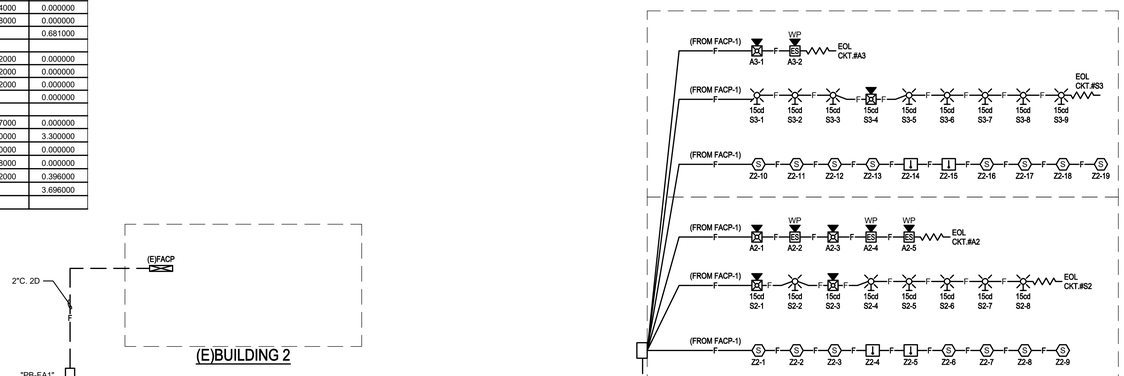
AMPS X DISTANCE X 21.6 / CIRC MILLS X 100 / VOLTAGE = PERCENT DROP

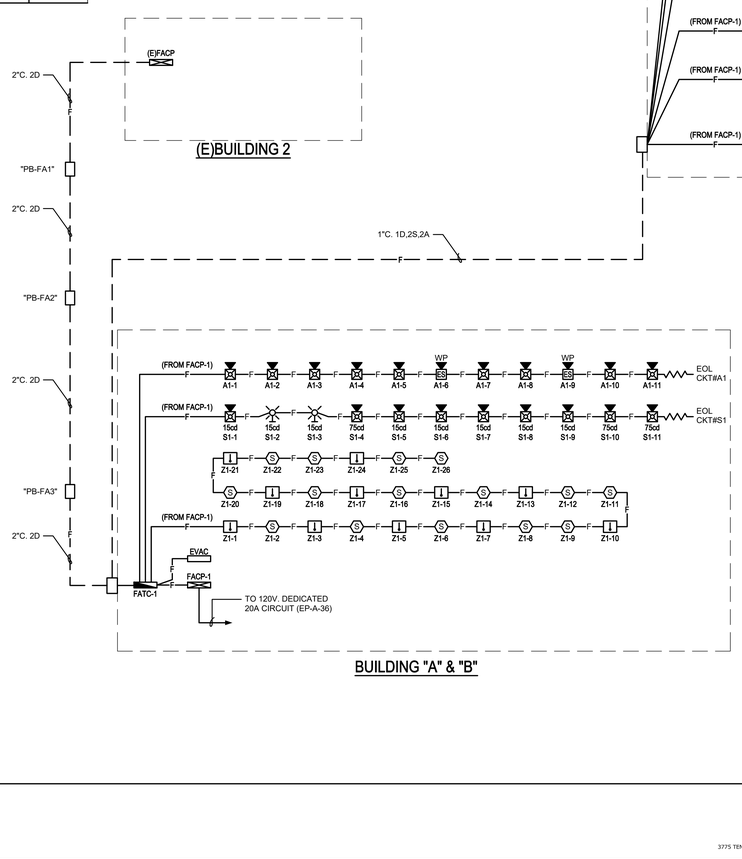
SKY COUNTRY ES MODULAR BLDG - SPEAKER CIRCUIT LOAD CALCULATION

SPEAKER CIRCUIT DESCRIPTION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14, 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES SPSR / CW TAP .25 Watt	SPSR / CW TAP .5 Watt	SPSR / CW TAP 1. Watt	SPSR / CW TAP 2. Watt	SPRK TAP 2. Watt	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)
BLDG "A" & "B" Speakers (FACP-1)	A1	16	70 vrms	0	9	0	0	2	8.5 Watts	252 ft.
Portable Speakers (FACP-1)	A2	16	70 vrms	0	2	0	0	3	.7 Watts	205 ft.
Portable Speakers (FACP-1)	A3	16	70 vrms	0	1	0	0	1	2.5 Watts	169 ft.
		16	70 vrms	0	0	0	0	0	. Watts	ft.
				Appliance Summary					Total Load (Watts)	
				0	12	0	0	6	18.00	

MAXIMUM -3 dB DROP PER CIRCUIT		
ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
-.03 db	26546 ft.	2.266 Ohms
-.02 db	32235 ft.	1.843 Ohms
-.01 db	90258 ft.	1.519 Ohms
. db	ft.	. Ohms

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE MAXIMUM ALLOWABLE CIRCUIT LENGTH. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS.





REGISTERED PROFESSIONAL ENGINEER — ERNEST HSING YANG — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA
LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA
STAMPS

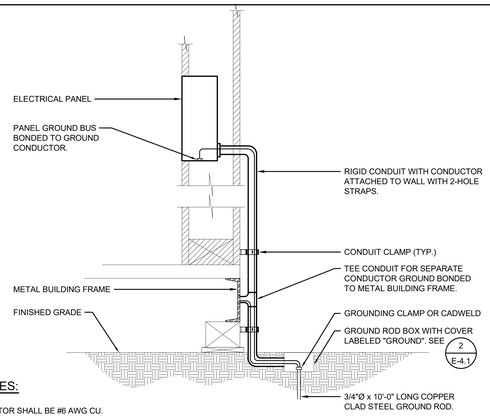
AGENCY APPROVAL
File No: ########-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

DCGR ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax.909.980.7023
CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

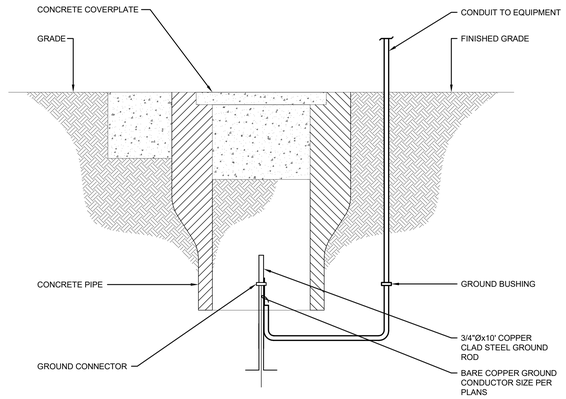
CHILDREN & FAMILY SERVICES WEST PORTABLE:



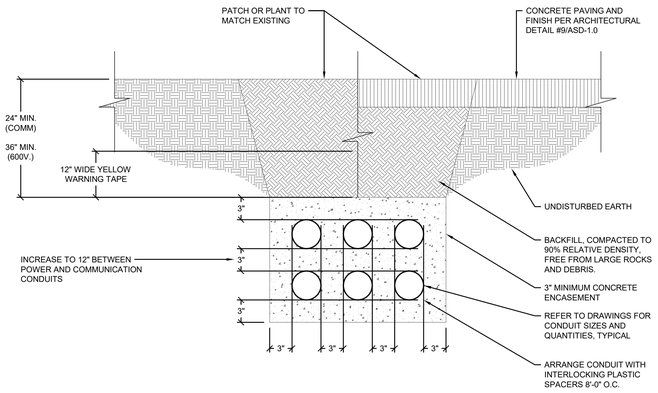
DETAIL NOTES:

1. SIZE OF CONDUCTOR SHALL BE #6 AWG CU.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC. 250.92 & 250.104(C)). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (CEC. 250.104(A)).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDINGS).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (CEC. 250-53(A)(2)).
5. GROUND TEST SHALL BE WITNESSED BY PROJECT INSPECTOR, AND RECORDED FOR OWNER MANUAL.

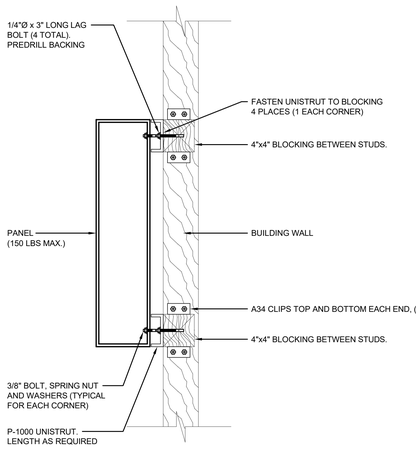
RCB GROUNDING DETAIL | NOT TO SCALE | 1



GROUND ROD DETAIL | NOT TO SCALE | 2



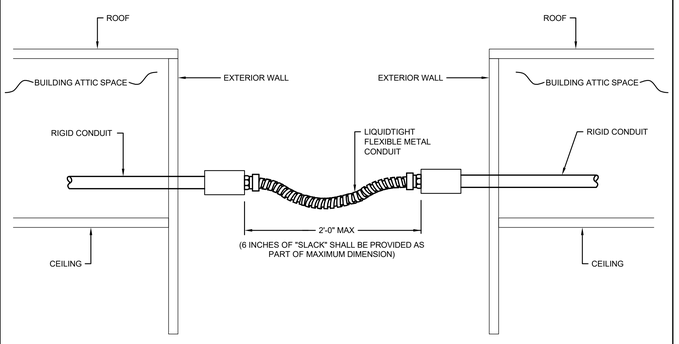
TYPICAL MULTI-CONDUIT PLACEMENT DETAIL | NOT TO SCALE | 3



SURFACE MOUNTED PANEL/CABINET @ WOOD FRAMING | NOT TO SCALE | 4

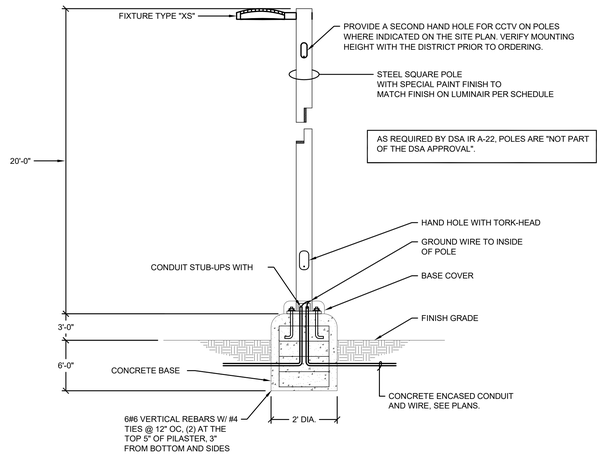
| NOT TO SCALE | 5 |

| NOT TO SCALE | 6 |



SEISMIC JOINT CONDUIT DETAIL | NOT TO SCALE | 7

| NOT TO SCALE | 8 |



POLE MOUNTED LIGHTING FIXTURE BASE MOUNTING DETAIL | NOT TO SCALE | 9

REGISTERED PROFESSIONAL ENGINEER — ERNEST HSING PANG — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA
LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA
STAMPS

DCGR ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
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Fax 909.980.7023
CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

AGENCY APPROVAL
File No: ########-########

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

CHILDREN & FAMILY SERVICES WEST PORTABLE:

PROJECT No. :14158
9/18/2024 9:14:17 AM

DRAWN BY:
CHECKED BY:
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV
DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV

RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
4850 PEDLEY ROAD, JURUPA VALLEY, CA 92509
JURUPA UNIFIED SCHOOL DISTRICT

ELECTRICAL DETAILS

E-4.1

14158

P:\JUSD Sky Country ES Modular Bldg and Parking Addition #24068\Dwgs\E\24068E41.dwg 12-23-25-4:14 PM

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2F for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2(b)4bvii

Project Name: Children & Family Services Portable **Report Page:** (Page 1 of 6)
Project Address: 4850 Pedley Road **Date Prepared:** 8/26/2025

A. GENERAL INFORMATION

01	Project Location (city)	Jurupa Valley	02	Climate Zone	10
			03	Occupancy Types Within Project:	

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
DPCR	New electrical service equipment and meter	70	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable, if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name: Children & Family Services Portable **Report Page:** (Page 2 of 6)
Date Prepared: 8/26/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND	Yes		COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name: Children & Family Services Portable **Report Page:** (Page 3 of 6)
Date Prepared: 8/26/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
DPCR					
Lighting including exit, egress and exterior	All lighting in aggregate	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E-Sheets	☐	☐
Lighting including exit, egress and exterior	All lighting in aggregate	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E-Sheets	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E-Sheets	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name: Children & Family Services Portable **Report Page:** (Page 4 of 6)
Date Prepared: 8/26/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Biviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
DPCR	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E0.3	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

DPCR	E0.3

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This section does not apply to this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name: Children & Family Services Portable **Report Page:** (Page 5 of 6)
Date Prepared: 8/26/2025

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name: Children & Family Services Portable **Report Page:** (Page 6 of 6)
Project Address: 4850 Pedley Road **Date Prepared:** 8/26/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Chris Villalobos	Documentation Author Signature:
Company: DCGA Engineers	Signature Date: 2025-08-26
Address: 4750 E. Ontario Mills Parkway	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Ontario CA 91764	Phone: 909-987-0017

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Chen Hsing Fang	Responsible Designer Signature:
Company: DCGA Engineers	Date Signed: 2025-08-26
Address: 4750 Ontario Mills Parkway	License: E16592
City/State/Zip: Ontario CA 91764	Phone: 909-987-0017

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2I, for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: Children & Family Services Portable **Report Page:** (Page 1 of 7)
Project Address: 4850 Pedley Road **Date Prepared:** 8/26/2025

A. GENERAL INFORMATION

01	Project Location (city)	Jurupa Valley	04	Total Illuminated Hardscape Area (ft²)	16980
02	Climate Zone	10			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Rural Areas	☒	LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project				
•	All Other Occupancies				

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2I / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒	New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03		04	05
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10%	☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2I / 180.2(b)4Bv									Compliance Results			
01		02		03		04		05	06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)k (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)k (See Table M)	OR Existing Power Allowance 141.0(b)2I. / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
607	+	---	+	---	+	---	+	---	OR ---	=	607	≥	372	COMPLIES
Shielding Compliance (See Table G for Details)														COMPLIES
Controls Compliance (See Table H for Details)														COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires[3]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req.> 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector	
										Pass	Fail
XS	XS	☐ Linear	124	Mfr. Spec	3	New	☐	372	Provided	☐	☐
								Total Design Watts:	372		

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

REGISTERED PROFESSIONAL ENGINEER — CHEN HSING FANG — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROBERT CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

STAMPS

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File No.: ########-#-#######

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APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

DCGA ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

CHILDREN & FAMILY SERVICES WEST PORTABLE:

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DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ REV

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RUHNAUCLARKE.COM
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CHILDREN & FAMILY SERVICES WEST PORTABLE
CHILDREN & FAMILY SERVICES WEST
4850 PEDLEY ROAD, JURUPA VALLEY, CA 92509
JURUPA UNIFIED SCHOOL DISTRICT

TITLE 24

E-5.1

14158

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G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >46,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
		Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
Name or Item Tag	Complete Luminaire Description	Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
XS	XS	2 MH from property line	No Limit	B2	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	☐	☐

[1]FOOTNOTES: Mounting Height is labeled MH in this table.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)
[3] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Parking Lot	Photocontrol	Provided	Provided	☐	☐

[1]FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2]Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3]Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Parking Lot	16980	0.021	356.6	0	0.2	0	357
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		607

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Parking Lot;

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Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Children & Family Services Portable	**Report Page:**	**(Page 7 of 7)**
Project Address: 4850 Pedley Road	**Date Prepared:**	8/26/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Chris Villalobos	Documentation Author Signature:
Company: DCGA Engineers	Signature Date: 2025-08-26
Address: 4750 E. Ontario Mills Parkway	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Ontario CA 91764	Phone: 909-987-0017

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Chen Hsing Fang	Responsible Designer Signature:
Company: DCGA Engineers	Date Signed: 2025-08-26
Address: 4750 Ontario Mills Parkway	License: E16592
City/State/Zip: Ontario CA 91764	Phone: 909-987-0017

REGISTERED PROFESSIONAL ENGINEER — CHEN HSING FANG — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

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CHILDREN & FAMILY SERVICES WEST PORTABLE:

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CHECKED BY:

RUHNAUCLARKE.COM
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CHILDREN & FAMILY SERVICES WEST
4850 PEDLEY ROAD, JURUPA VALLEY, CA 92509
JURUPA UNIFIED SCHOOL DISTRICT

TITLE 24

E-5.2

14158

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USASHADE & Fabric Structures, Inc.

FABRIC SHADE STRUCTURE

DSA P.C. 04-123501

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
3. SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.
4. PRIOR TO SUBMITTAL ARCHITECT OF RECORD SHALL IDENTIFY PC MODEL(S) SELECTED BY END USER ON SHEETS T-1.0 AND T-2.0 BY CHECKING THE APPROPRIATE BOX ASSOCIATED WITH SELECTED PC MODEL(S). EXCLUDE SHEETS FOR MODELS NOT SELECTED.

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

1. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
2. PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B). INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
3. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
4. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
5. INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
6. SHOW LOCATION OF AUDIBLE FIRE ALARM.
7. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B, & C", RESPECTIVELY, IN ASCE/SEI 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
8. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
9. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

FOR SNOW LOAD MODELS ONLY:

10. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL (ASCE 7-16).
11. ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

P.C. NOTES

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

LIST OF APPLICABLE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

APPLICABLE CODES

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFFESIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SEISMIC

SELECT ONE

- ☒ DESIGN BASED ON SITE CLASS $D_{default}$
  NO GEOTECHNICAL INVESTIGATION REQUIRED
  Ss = 1.6 Fa = 1.2
- ☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
  GEOTECHNICAL INVESTIGATION PROVIDED
  SITE CLASS: ☐ C ☐ D
  Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1
- ☐ DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
  SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
  CGS APPROVAL REQUIRED
  NOT ELIGIBLE FOR OTC REVIEW
  SITE CLASS: ☐ C ☐ D

S_{DS} = 2/3 Fa Ss = 1.273 ≤ 2.0
Cs = 1.6 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ☒ D ☐ E

CODE ANALYSIS			
OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft^2)
A-3	15	40	600

SITE SPECIFIC PARAMETERS

MANUFACTURER:

USA SHADE & FABRIC STRUCTURES
2580 ESTERS BOUVLEVARD, SUITE 100
DFW AIRPORT, TEXAS 75261
PH. 800-966-5005
W. www.usa-shade.com

ARCHITECT:

HIGGINSON ARCHITECTS, INC.
DAVID HIGGINSON, AIA, PRINCIPAL ARCHITECT
34247 YUCAIPA BOULEVARD, SUITE D
YUCAIPA, CALIFORNIA 92399
PH. 909-499-0058
E. dhiggInson@higgInsonarchitects.com
W. www.hIggInsonarchitects.com

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA

8/19/24

STRUCTURAL ENGINEER:

MARK LOWE, S.E.
c/o USA SHADE AND FABRIC STRUCTURES

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT LOWE No. 3693 STRUCTURAL STATE OF CALIFORNIA

8/23/2024

ARCHITECT / ENGINEER

✓	SHEET NO.	SHEET DESCRIPTION	UNIT STRUCTURE TYPE	MAX. UNIT SIZE	UNIT MODEL NUMBER
X	T-1.0	TITLE SHEET			
X	T-2.0	UNIT SELECTION			
X	T-3.0	T&I FORMS			
	1.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 15'	DSA4012030-22
	1.2-2000	REACTIONS	HIP	20' x 30' x 15'	DSA4012030-22
	2.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 15'	DSA4013030-22
	2.2-2000	REACTIONS	HIP	30' x 30' x 15'	DSA4013030-22
	3.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 15'	DSA4013040-22
	3.2-2000	REACTIONS	HIP	30' x 40' x 15'	DSA4013040-22
	4.1-1000	PRODUCT INFORMATION	HIP	40' x 40' x 15'	DSA4014040-22
	4.2-2000	REACTIONS	HIP	40' x 40' x 15'	DSA4014040-22
X	5.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 12'	DSA401203012-22
X	5.2-2000	REACTIONS	HIP	20' x 30' x 12'	DSA401203012-22
	6.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 12'	DSA401303012-22
	6.2-2000	REACTIONS	HIP	30' x 30' x 12'	DSA401303012-22
	7.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 12'	DSA401304012-22
	7.2-2000	REACTIONS	HIP	30' x 40' x 12'	DSA401304012-22
	8.1-1000	PRODUCT INFORMATION	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	8.2-2000	REACTIONS	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	9.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-22
	9.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-22
	9.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-22
	10.1-1000	PRODUCT INFORMATION	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.2-1001	DETAILS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.3-2000	REACTIONS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	11.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	11.2-2000	REACTIONS	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	12.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	12.2-2000	REACTIONS	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	13.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	13.2-2000	REACTIONS	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	14.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	14.2-2000	REACTIONS	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	15.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	15.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	16.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	16.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	17.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	17.2-2000	REACTIONS	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	18.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	18.2-2000	REACTIONS	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	19.1-1000	PRODUCT INFORMATION	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	19.2-2000	REACTIONS	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	20.1-1000	PRODUCT INFORMATION	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	20.2-2000	REACTIONS	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	21.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	21.2-2000	REACTIONS	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	22.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	22.2-2000	REACTIONS	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	23.1-1000	PRODUCT INFORMATION	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	23.2-2000	REACTIONS	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	24.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	24.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	25.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	25.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	26.1-1000	PRODUCT INFORMATION	TRIANGLE	25' x 25' x 15'	DSA30125-22
	26.2-2000	REACTIONS	TRIANGLE	25' x 25' x 15'	DSA30125-22
	27.1-1000	PRODUCT INFORMATION	TRIANGLE	40' x 40' x 15'	DSA30140-22
	27.2-2000	REACTIONS	TRIANGLE	40' x 40' x 15'	DSA30140-22
	28.1-1000	PRODUCT INFORMATION	HEXAGON	Ø40' X 15'	DSA60340-22
	28.2-2000	REACTIONS	HEXAGON	Ø40' X 15'	DSA60340-22
	29.1-1000	PRODUCT INFORMATION	HEXAGON	Ø60' X 15'	DSA60360-22
	29.2-2000	REACTIONS	HEXAGON	Ø60' X 15'	DSA60360-22

TOTAL SHEET COUNT: 63 SHEETS

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

USASHADE & Fabric Structures®
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Jurupa U.S.D.

PROJECT NAME:
Sky Country Elementary

LOCATION:
5520 Lucretia Ave.
Mira Loma, CA 91752

MODEL NUMBER:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

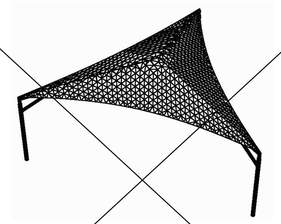
Eng. By :	DWH	8/19/23
Design By :	DWH	8/19/23
Approved By :	DWH	8/19/23

DRAWING DESCRIPTION:

DWG.
TITLE SHEET

SHEET
T-1.0

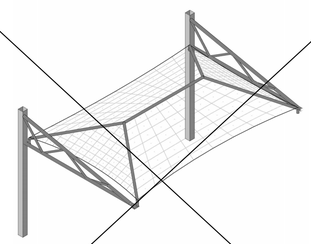
REV.



STRUCTURE MODEL:	DSA30125-22	SEE SHEET 26.1-1000
MAX. SIZE:	25' x 25' x 15'	
MAX. AREA:	271 SQ. FT.	
MAX. OCCUPANCY:	18 PERSONS	
STRUCTURE MODEL:	DSA30140-22	SEE SHEET 27.1-1000
MAX. SIZE:	40' x 40' x 15'	
MAX. AREA:	692 SQ. FT.	
MAX. OCCUPANCY:	46 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

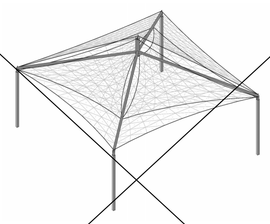
TRIANGLE



STRUCTURE MODEL:	DSA2062030-22	SEE SHEET 21.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

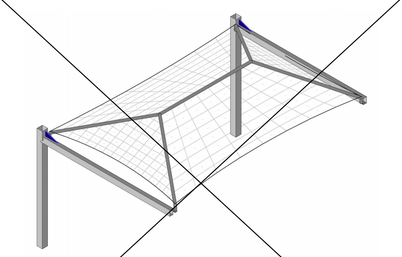
TRI-TRUSS HIP SINGLE WIDE



STRUCTURE MODEL:	DSA4073030-22	SEE SHEET 17.1-1000
MAX. SIZE:	30' x 30' x 15'	
MAX. AREA:	900 SQ. FT.	
MAX. OCCUPANCY:	60 PERSONS	
STRUCTURE MODEL:	DSA4073040-22	SEE SHEET 18.1-1000
MAX. SIZE:	30' x 40' x 15'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

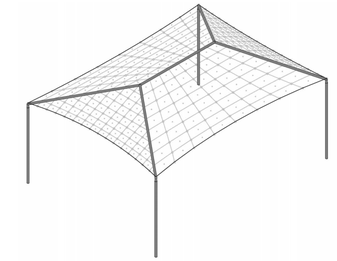
MARINER PEAK



STRUCTURE MODEL:	DSA2022030-22	SEE SHEET 11.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

FULL CANTILEVER HIP SINGLE



STRUCTURE MODEL:	DSA4012030-22	SEE SHEET 1.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	
STRUCTURE MODEL:	DSA4013030-22	SEE SHEET 2.1-1000
MAX. SIZE:	30' x 30' x 15'	
MAX. AREA:	900 SQ. FT.	
MAX. OCCUPANCY:	60 PERSONS	
STRUCTURE MODEL:	DSA4013040-22	SEE SHEET 3.1-1000
MAX. SIZE:	30' x 40' x 15'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	
STRUCTURE MODEL:	DSA4014040-22	SEE SHEET 4.1-1000
MAX. SIZE:	40' x 40' x 15'	
MAX. AREA:	1,600 SQ. FT.	
MAX. OCCUPANCY:	106 PERSONS	
X STRUCTURE MODEL:	DSA401203012-22	SEE SHEET 5.1-1000
MAX. SIZE:	20' x 30' x 12'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	
STRUCTURE MODEL:	DSA401303012-22	SEE SHEET 6.1-1000
MAX. SIZE:	30' x 30' x 12'	
MAX. AREA:	900 SQ. FT.	
MAX. OCCUPANCY:	60 PERSONS	
STRUCTURE MODEL:	DSA401304012-22	SEE SHEET 7.1-1000
MAX. SIZE:	30' x 40' x 12'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	
STRUCTURE MODEL:	DSA401S2030-22 (20 psf SNOW LOAD)	SEE SHEET 8.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

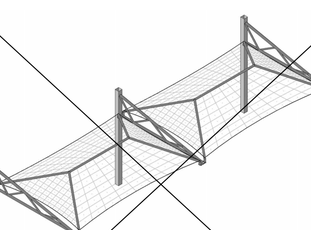
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

HIP

STRUCTURE MODEL:	DSA60340-22	SEE SHEET 28.1-1000
MAX. SIZE:	Ø40' x 15'	
MAX. AREA:	1,040 SQ. FT.	
MAX. OCCUPANCY:	69 PERSONS	
STRUCTURE MODEL:	DSA60360-22	SEE SHEET 29.1-1000
MAX. SIZE:	Ø60' x 15'	
MAX. AREA:	2,338 SQ. FT.	
MAX. OCCUPANCY:	156 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

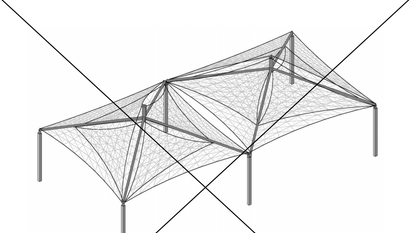
HEXAGON



STRUCTURE MODEL:	DSA3052060-22	SEE SHEET 22.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

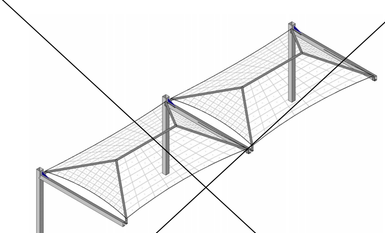
TRI-TRUSS HIP JOINED



STRUCTURE MODEL:	DSA407J3060-22	SEE SHEET 19.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

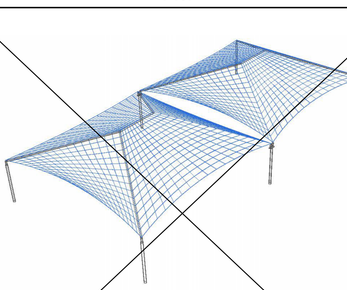
MARINER PEAK JOINED



STRUCTURE MODEL:	DSA3022060-22	SEE SHEET 12.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

FULL CANTILEVER HIP JOINED



STRUCTURE MODEL:	DSA401J-22	SEE SHEET 9.1-1000
MAX. SIZE:	VARIES, SEE JOINED HIP UNIT SHEET	
MAX. AREA:	VARIES	
MAX. OCCUPANCY:	VARIES	

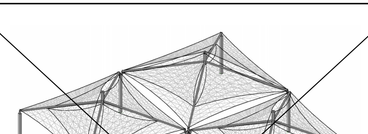
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

JOINED HIP

STRUCTURE MODEL:	DSA30730-22	SEE SHEET 23.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

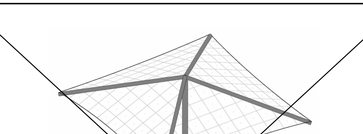
TENSIONS SAILS THREE-POINT



STRUCTURE MODEL:	DSA407Q6060-22	SEE SHEET 20.1-1000
MAX. SIZE:	60' x 60' x 15'	
MAX. AREA:	3,600 SQ. FT.	
MAX. OCCUPANCY:	240 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

MARINER PEAK QUAD



STRUCTURE MODEL:	DSA1031414-22	SEE SHEET 13.1-1000
MAX. SIZE:	14' x 14' x 12'	
MAX. AREA:	196 SQ. FT.	
MAX. OCCUPANCY:	13 PERSONS	
STRUCTURE MODEL:	DSA1032020-22	SEE SHEET 14.1-1000
MAX. SIZE:	20' x 20' x 12'	
MAX. AREA:	400 SQ. FT.	
MAX. OCCUPANCY:	26 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

SINGLE POST PYRAMID

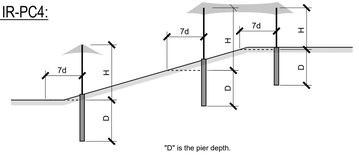
STRUCTURE MODEL:	DSA401Q-22	SEE SHEET 10.1-1000
MAX. SIZE:	VARIES, SEE QUAD HIP UNIT SHEET	
MAX. AREA:	VARIES	
MAX. OCCUPANCY:	VARIES	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

QUAD HIP

NOT USED

PER IR-PC4:



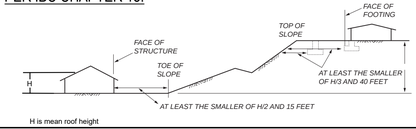
"D" is the pier depth.

"d" is the pier diameter.

"7d" is the horizontal plane projected from 7 times d.

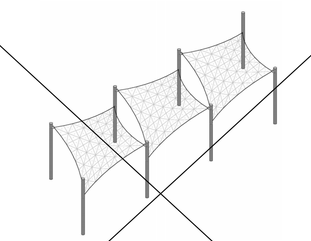
"H" is the theoretical column height (column height plus part of projected height)

PER IBC CHAPTER 18:



H is mean roof height

PC SLOPE DESIGN PARAMETERS

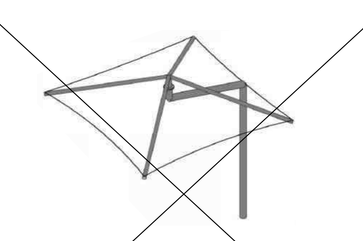


STRUCTURE MODEL:	DSA4182020-22	SEE SHEET 24.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	
STRUCTURE MODEL:	DSA4183030-22	SEE SHEET 25.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

TENSIONS SAILS FOUR-POINT

NOT USED



STRUCTURE MODEL:	DSA1241414-22	SEE SHEET 15.1-1000
MAX. SIZE:	14' x 14' x 12'	
MAX. AREA:	196 SQ. FT.	
MAX. OCCUPANCY:	13 PERSONS	
STRUCTURE MODEL:	DSA1242020-22	SEE SHEET 16.1-1000
MAX. SIZE:	20' x 20' x 12'	
MAX. AREA:	400 SQ. FT.	
MAX. OCCUPANCY:	26 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

SINGLE POST PYRAMID CANTILEVER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
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DATE: 01/14/2026

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CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428

CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Jurupa U.S.D.

PROJECT NAME:
Sky Country Elementary

LOCATION:
5520 Lucretia Ave.
Mira Loma, CA 91752

MODEL NUMBER:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	DWH	8/19/23
Design By :	DWH	8/19/23
Approved By :	DWH	8/19/23

DRAWING DESCRIPTION:

DWG.
UNIT SELECTION

SHEET
T-2.0

REV.

LICENSED ARCHITECT
DAVID HIGGINSON
C19168
10-31-25
RENEWAL DATE
STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER
MARK ALBERT LOWE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA
8/23/2024

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

General

Application Number: 04-123501 | **School Name:** PCC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140 | **Increment Number:** | **Date Created:** 2024-08-06 15:16:59

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required **Periodic –** Indicates that a periodic special inspection is required **Test –** Indicates that a test is required	**GE (Geotechnical Engineer) –** Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR (Laboratory of Record) –** Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. **PI (Project Inspector) –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI (Special Inspection) –** Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-123501 | **School Name:** PCC FABRIC SHADE STRUCTURES | **School District:** USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC-140 | **Increment Number:** | **Date Created:** 2024-08-06 15:16:59

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings must not contain loose material, mud, organic silt, organic clays, or peat.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations and/or within the building envelope is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:	see T&I Note #7 for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Perform classification and testing of fill materials.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
☐	**b.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	**Continuous**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☐	**c.** Compaction testing.	**Test**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify pile materials, sizes and lengths comply with the requirements.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.

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Table 1705A.6, Table 1705A.7, Table 1705A.8

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**b.** Determine capacities of test piles and conduct additional load tests as required.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
☐	**c.** Inspect driving operations and maintain complete and accurate records for each pile.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**d.** Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**e.** Steel piles.	Provide tests and inspections per STEEL section below.		
☐	**f.** Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	**g.** For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	see T&I Note #8 for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Note**
☑	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**c.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		

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Table 1705A.6, Table 1705A.7, Table 1705A.8

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	S6. RETAINING WALLS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Placement, compaction and inspection of backfill.	**Continuous**	**GE***	**1705A.6.1.** * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	**b.** Placement of soil reinforcement and/or drainage devices.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.** Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	**d.** Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	**e.** Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

	S6. OTHER SOILS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Soil improvements	**Test**	**GE***	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	**b.** Inspection of Soil Improvements	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.**			

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of required design mix.	**Continuous**	**SI**	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identify, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2;** ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'c).	**Test**	**LOR**	**1905A.1.17;** ACI 318-19 Section 26.12.
☑	**e.** Batch plant inspection: **Not Required**	**See Notes**	**SI**	Default of '**Continuous**' per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to '**Periodic**' subject to requirements in Section **1705A.3.3.1.**, or not required per **1705A.3.3.2.** See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	**f.** Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

	C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Sample and test prestressing tendons and anchorages.	**Test**	**LOR**	**1705A.3.4, 1910A.3**
☐	**b.** Inspect placement of prestressing tendons.	**Periodic**	**SI**	**1705A.3.4, Table 1705A.3 Items 1 & 9.**

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	**Periodic**	**SI**	**Table 1705A.3 Item 13.** Special inspector to verify specified concrete strength test prior to stressing.
☐	**d.** Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	**Continuous**	**SI**	**1705A.3.4, Table 1705A.3 Item 9**; ACI 318-19 Section 26.13 Appendix (end of this form) for exemptions.)

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect fabrication of precast concrete members.	**Continuous**	**SI**	ACI 318-19 Section 26.13, and PCI MNL-128 and -130.
☐	**b.** Inspect erection of precast concrete members.	**Periodic**	**SI***	**Table 1705A.3 Item 10.** * May be performed by PI when specifically approved by DSA.
☐	**c.** For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	**Continuous**	**SI**	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
☐	**d.** Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	**Periodic**	**SI**	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect shotcrete placement for proper application techniques.	**Continuous**	**SI**	**1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3.** See ACI 506.2-13 Section 3.4; ACI 506R-16.
☐	**b.** Sample and test shotcrete (f'c).	**Test**	**LOR**	**1908A.2, 1705A.3.9**

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-19 Section 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. •Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c**, 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
☐	**e.** Buckling restrained braces.	**Test**	**LOR**	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:	see Testing Matrix table for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	**Periodic**	**SI**	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	**b.** Test high-strength bolts, nuts and washers.	**Test**	**LOR**	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	**c.** Bearing-type ("snug tight") connections.	**Periodic**	**SI**	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9 **"Continuous" or "Periodic" depends on the tightening method used.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	**d.** Verification of reinforcing steel weldability other than ASTM A706.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**e.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	**d.** Inspect floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3 DSA IR 17-3.
☐	**e.** Inspect welding of structural cold-formed steel.	**Periodic**	**SI***	**1705A.2.5; AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	**f.** Inspect welding of stairs and railing systems.	**Periodic**	**SI***	**1705A.2.1**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	**g.** Verification of reinforcing steel weldability.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**h.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**c.**	**Test**	**LOR**	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**Continuous**	**SI**	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A9. ANCHOR BOLTS AND ANCHOR RODS:	see T&I Note #9 for additional information		
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Anchor Bolts and Anchor Rods	**Test**	**LOR**	Identify, sample and test anchor bolts and anchor rods **not** meeting exemptions identified in Section 1 of IR 17-11.
☑	**b.** Threaded rod not used for foundation anchorage.	**Test**	**LOR**	Identify, sample and test threaded rods **not** meeting exemptions identified in Section 1 of IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	**Periodic**	**SI**	Table 1705A.13.7
☐	**b.** Fabricated storage rack elements.	**Periodic**	**SI**	1704A.2.5; Table 1705A.13.7

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
☐	**a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	**Periodic**	**SI**	**1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.**
☐	**b.** Test density.	**Test**	**LOR**	**1705A.15.1, 1705A.15.5, ASTM E605**
☐	**c.** Bond strength adhesion/cohesion.	**Test**	**LOR**	**1705A.15.1, 1705A.15.6, ASTM E736**

GENERAL DSA-103 NOTES:

1. THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
2. A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

TESTING AND INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2. IF THE TOTAL AREA OF THE SHADE STRUCTURE(S) IS LESS THAN 2,000 SQ. FT. WITH NO FIELD WELDING OR HIGH-STRENGTH FASTENERS THEN THE SITE PROJECT INSPECTOR MAY BE A CLASS 3.
3. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
4. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
5. THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
6. PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
   - 6.1. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   - 6.2. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.
7. INCLUDE SECTION S2 - SOIL COMPACTION AND FILL WHEN OVER-EX AND RE-COMPACTING OCCURS.
8. S4 - CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): NOT REQUIRED IF SPREAD FOOTING OPTION IS CHOSEN.
9. S/A9 - ANCHOR BOLT AND ANCHOR ROD: NOT REQUIRED IF EMBEDDED BASE PLATE OPTION IS CHOSEN.

HIGH-STRENGTH BOLTS (S/A2) SPECIAL INSPECTIONS TESTING MATRI

GENERAL NOTES

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500 GRADE C, IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 50,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).

12.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

13.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

14.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4"

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6.- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=4909 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)
-K-12: 250 PERSONS
-PUBLIC ASSEMBLY: 300 PERSONS
-EDUCATIONAL OCCUPANCIES
ABOVE 12TH GRADE: 500 PERSONS

CBC PC DESIGN NOTES

BUILDING CODE	CBC 2022 (BASED ON IBC 2021)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	RLL 5 PSF

ALLOWABLE SOIL PRESSURE:
DL LL (CONC FTG) 1500 PSF
DL LL SEISMIC (CONC FTG) 1500 PSF
LATERAL BEARING DESIGN VALUE 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2
TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	ZONE X

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION

-BASIC DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4)	V_{ASD}	90 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.85
-VELOCITY PRESSURE	z	24.46 PSF

SEISMIC DESIGN:
-SITE CLASS D
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

	SS	3.00g
	S1	1.389g
-SPECTRAL RESPONSE COEFFICIENTS	SDS	2.00
	SD1	1.39

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

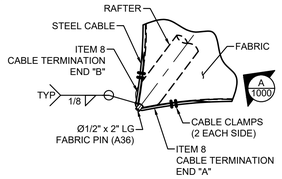
-SEISMIC IMPORTANCE FACTOR	Ie	1.0
-DESIGN BASE SHEAR AT BASE	V	1608 LB
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
-RISK CATEGORY	II	
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1.2
	Fv	1.5
-REDUNDANCY FACTOR	ρ	1.3

GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

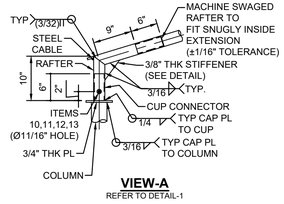
ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

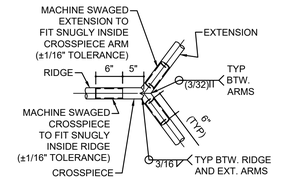
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.



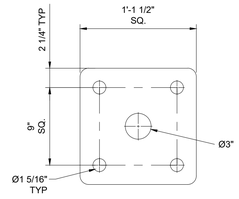
DETAIL 1
REFER TO TOP VIEW



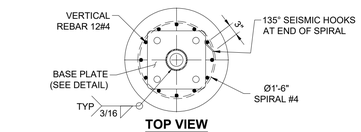
VIEW-A
REFER TO DETAIL-1



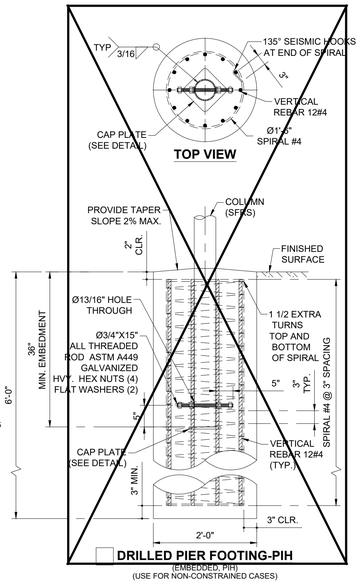
DETAIL-2
REFER TO TOP VIEW



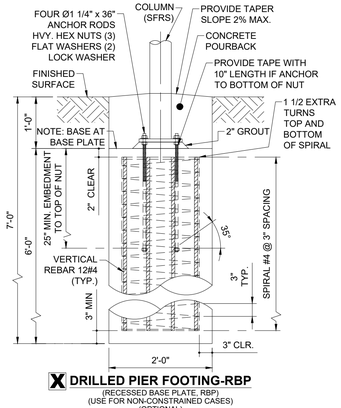
BASE PLATE
(1 1/4" THK)
(TYP. FOR RBP COLUMNS)



TOP VIEW

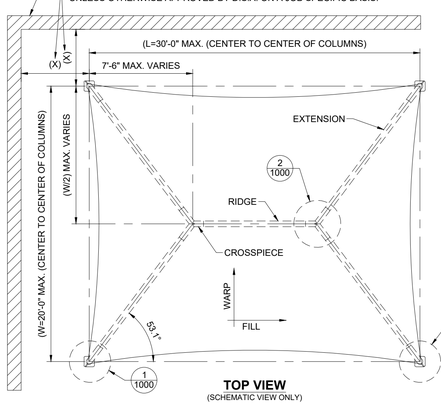


DRILLED PIER FOOTING-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)



X DRILLED PIER FOOTING-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)

ADJACENT BUILDING
STRUCTURE SHALL BE INSTALLED A MIN. OF 20'-0" AWAY FROM ADJACENT BUILDING, UNLESS OTHERWISE APPROVED BY D.S.A. ON A JOB SPECIFIC BASIS.

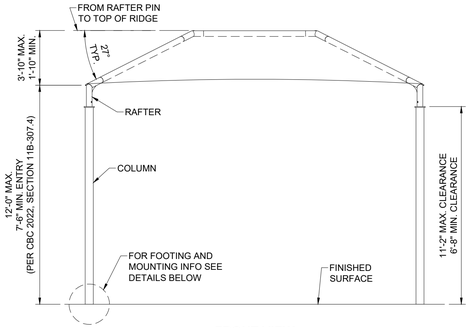


TOP VIEW
(SCHEMATIC VIEW ONLY)

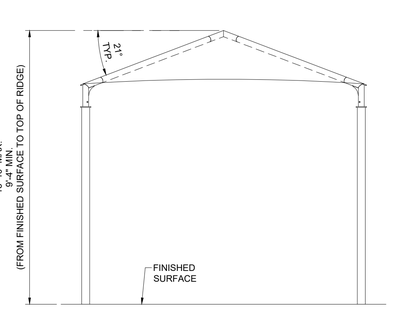
THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.

LIST OF MATERIALS

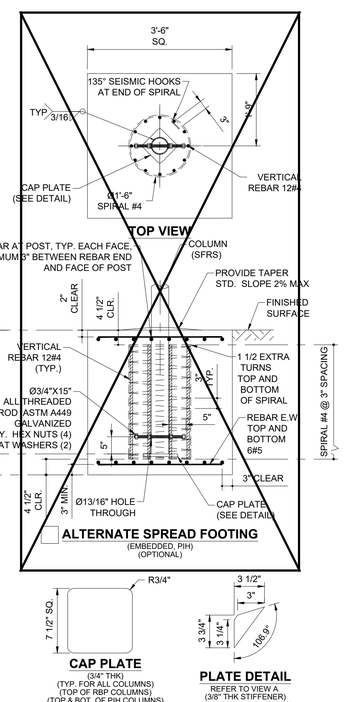
ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (HSS 5.0 x 0.188)
2	4	CUP CONNECTOR (6" LG)	HSS 4.0 x 0.25
3	4	RAFTER (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
4	4	EXTENSION (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
5	2	CROSSPIECE GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
6	1	RIDGE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
7	1	FABRIC TOP	FR COLOURSHADE 190/F5
8	1	Ø3/8" CABLE	GALVANIZED STEEL
9	4	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
10	4	Ø5/8"-11NC x 6" HEX BOLT(ST)	316 SS
11	4	Ø5/8"-11NC HEX NUT	316 SS
12	8	Ø5/8" FLAT WASHER	316 SS
13	4	Ø5/8" SPLIT LOCK WASHER	316 SS



FRONT VIEW
(SCHEMATIC VIEW ONLY)



SIDE VIEW
(SCHEMATIC VIEW ONLY)



CAP PLATE
(3/4" THK)
(TYP. FOR ALL COLUMNS)
(TOP OF RBP COLUMNS)
(TOP & BOT. OF PIH COLUMNS)
(A572 GR. 50)

PLATE DETAIL
REFER TO VIEW A
(3/8" THK STIFFENER)
(TYP. FOR ALL RAFTERS)
(A572 GR. 50)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Jurupa U.S.D.

PROJECT NAME:
Sky Country Elementary

LOCATION:
5520 Lucretia Ave.
Mira Loma, CA 91752

MODEL NUMBER:
DSA401203012-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:
H I P
DSA

SIZE: MAXIMUM
20' x 30' x 12'e MAX.

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA401203012-22

SHEET
5.1-1000

REV.
NC

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER MARK BERNARD CLARK No. 3693 STRUCTURAL STATE OF CALIFORNIA
6/28/2024

Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.

7 x 19

7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400

Multiknit INTERNATIONAL

190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
				110 LB		159 LB		3258 PSF	

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

PP
Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd

CAL FIRE SINCE 1885

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:

MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

Issue Date : 05/08/2023
Expiration Date : 06/30/2024

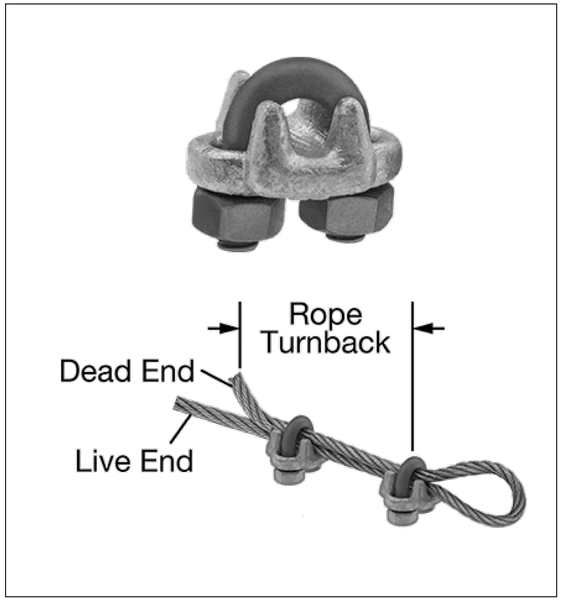
This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

CWalker
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 19
ATTACHMENT TYPE: LOOP
CLAMP:WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER MARK BERGER No. 3693 STRUCTURAL STATE OF CALIFORNIA
6/28/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

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USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Jurupa U.S.D.

PROJECT NAME:
Sky Country Elementary

LOCATION:
5520 Lucretia Ave.
Mira Loma, CA 91752

MODEL NUMBER:
DSA401203012-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

STRUCTURE TYPE:
H I P
DSA

SIZE: MAXIMUM
20' x 30' x 12'e MAX.

SCALE : NONE

DRAWING SIZE: **D**

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
SPECIFICATIONS

DWG. **DSA401203012-22**

SHEET **5.2-2000**

REV. **NC**

American Modular Systems

24' x 40' THRU 48' x 40' 2GO BUILDINGS (HIGH SEISMIC)

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR)
- 2022 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2021 INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2020 NATIONAL ELECTRIC CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2021 IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2021 IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
- 2022 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2021 INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
- 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
-

PARTIAL LIST OF APPLICABLE STANDARDS

• NFPA 13	AUTOMATIC SPRINKLER SYSTEM	2022 EDITION
• NFPA 14	STANDPIPE AND HOSE SYSTEMS	2019 EDITION
• NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
• NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
• NFPA 20	STATIONARY PUMPS	2019 EDITION
• NFPA 24	PRIVATE FIRE MAINS	2019 EDITION
• NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL, STANDARD 1971 FOR "VISUAL DEVICES")	2022 EDITION
• NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
• NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMMENDED)	2018 EDITION

GENERAL NOTES

1. SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILTY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B", OR "A" CATEGORY I & II, WITH AN OCCUPANT LOAD LESS THAN 250.
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
5. AUTOMATIC FIRE SPRINKLER REQUIREMENTS ARE NOT INCLUDED IN THIS PC APPROVAL.
6. THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.
7. A SEPARATE DSA APPLICATION NUMBER IS REQUIRED FOR DESIGN & INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE. (NOTE: SOLAR PANEL SYSTEM WEIGHT IS INCLUDED IN BUILDING DESIGN) SOLAR SYSTEM SUBMITTALS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
8. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
9. THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS.
10. THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
11. PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB L_e -1-hr DURING ANY HOUR OF OPERATION WHEN NOISE
12. CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
13. THIS PC BUILDING IS NOT DESIGNED FOR SNOW LOADS.
14. THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.
15. BUILDING SHALL BE MANUFACTURERD IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
16. SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SUQARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.
17. THE DESIGN PROFESSIONAL HAS EXEMPTED RAMPS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP
18. ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICALSYSTEMS,FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT

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BUILDING DATA

OCCUPANCY	~~I C OR~~ B (CLASSROOM USE FOR COLLEGE), OR A (CATEGORY I/II)
TYPE OF CONSTRUCTION	V-B
WIND LOAD ASCE 7-16 SECTION 28.5.3 SIMPLIFIED PROCEDURE	V = 99 MPH BASIC WIND SPEED EXPOSURE = C INTERNAL PRESSURE COEFF., $GC_{P,I}$ = ±0.18 RISK CATEGORY II K_{ZT} = 1.00 λ = 1.21 ROOF ANGLE = 1.2°
ICE LOAD	NOT CONSIDERED (SEE GENERAL NOTE #15 THIS SHEET)
SNOW LOAD	NOT CONSIDERED (SEE GENERAL NOTE #14 THIS SHEET)
ROOF LIVE LOAD (MAX PSF)	20
FLOOR LIVE LOAD (PSF)	☐ 50 ☒ 50 15 ☐ 100
RAMP LIVE LOAD (MAX. PSF)	100 (1,000# CONCENTRATED LD)
DESIGN DEAD LOADS (MAX PSF)	18.0 ROOF - 12.0 FLOOR - 10.0 EXT. WALLS
ROOF SOLAR PANELS	3.0 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTE #7 THIS SHEET)
FIRE SPRINKLER SYSTEM DESIGN WT.	NOT CONSIDERED (SEE GENERAL NOTES #5 THIS SHEET)
ALLOWABLE SOIL PRESSURE (PSF)	1,000 FOR WOOD FOUNDATION
FLOOD HAZARD AREA	NO (SEE GENERAL NOTE #11 THIS SHEET)
RAIN INTENSITY (IN/HR)	3"
BUILDING AREA (SQ. FT.)	960 MIN. THRU 1920 MAX.
CLIMATE ZONE GROUP	☐ 1,16 ☐ 2-5 ☒ 6-13 ☐ 14,15 (REFER TO EN.1 FOR REQUIREMENTS)
MODULES	LIGHT MODULAR STEEL MOMENT FRAMES PER CBC 2212A
SYSTEM	12'x40' MODULES (2 MODULES MINIMUM - 4 MODULES MAX)
FOUNDATION TYPE	WOOD

SITE-SPECIFIC OPTIONS

FLOOR DECK	1⅛" PLYWOOD SHTG.				
WALL STUDS	WOOD				
EXTERIOR WALL FINISH	☒ DURATEMP 303	☐ LAP SIDING			
HVAC	☐ INTERIOR FLOOR MOUNTED	☒ EXTERIOR WALL MOUNTED			
ROOFING	3" x 20 GA. STANDING SEAM				
ROOF PITCH	☒ SINGLE PITCH	☐ DUAL PITCH			
ROOF DIAPHRAGM	STEEL X-BRACING				
FRONT OVERHANG	☐ NO	☒ YES - LENGTH: 5'-0"			
REAR OVERHANG	☐ NO	☒ YES - LENGTH: 2'-9"			
RAMP(S)	☐ NO	☒ YES (SEE SHEET S10.0)			
LIQUEFIABLE SOILS	☒ NO	☐ YES (SEE GENERAL NOTE #10 THIS SHEET)			
MAPPED GEOHAZARD ZONE	☒ NO	☐ YES (AS DEFINED BY PC-6 SECTION 1.8)			
GEOHAZARD REPORT	☒ NO	☐ YES			
IF YES	GEOTECHNICAL FIRM:				
	REPORT #:		REPORT DATE:		
GEOTECHNICAL REPORT	☒ NO	☐ YES			
IF YES	GEOTECHNICAL FIRM:				
	REPORT #:		REPORT DATE:		

☒ THIS SHEET CONTAINS DESIGN OPTION BOXES AVAILABLE FOR SELECTION BASED ON SITE SPECIFIC REQUIREMENTS.

REQUIRED PV SYSTEM SIZE (kW)

CLIMATE ZONE GROUP	BUILDING SIZE 24'x40'	36'x40'	48'x40'
	APPROXIMATE CONDITIONED FLOOR AREA 960	1440	1920
☐ 1 & 16	NONE	NONE	NONE
☐ 2 - 5	NONE	NONE	NONE
☒ 6 - 13	NONE	NONE	NONE
☐ 14 & 15	NONE	NONE	2.0

SEE NOTE #7

SEE SHEET TS2 FOR SHEET INDEX

SITE SPECIFIC WIND VALUES

SITE SPECIFIC BASIC WIND SPEED = 96 MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S_S = 1.592 SITE SPECIFIC S_1 = 0.578 SITE CLASS = D - DEFAULT

SITE SPECIFIC S_{DS} = 1.273 SITE SPECIFIC S_{D1} = N/A

NOTE: SITE SHALL BE SITE CLASS "D" (DEFAULT) IF NO SOILS REPORT

PC BUILDING SEISMIC DESIGN CRITERIA

I_e = 1.0 T = 0.231s R = 3.5 (OMF) RISK CATEGORY II

Ω_0 = 3.0 C_d = 3.0 ρ = 1.0 SEISMIC DESIGN CATEGORY: D (S_1 < 0.75) E (S_1 ≥ 0.75)

NOTE:
PER CBC 1613A.2.3,
S_{DS} (S_{MS}) SHALL NOT BE TAKEN AS LESS THAN S_{D1} (S_{M1})

MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
SEISMIC RESPONSE COEFFICIENT IS BASED ON SHORT PERIOD RESPONSE Sds

NOTE:
FOR ALL LATERAL LOAD CASES, COMPONENTS AND CLADDING DESIGNED FOR:
S_{DS} = 1.95

☒ NO SOILS REPORT - ASSUMED SITE CLASS "D" DEFAULT

S_s = 2.440 MAX (SITE) 1.708 (DESIGN) F_a = 1.2 S_{DS} = 1.95 (SITE) 1.37 (DESIGN)

S_1 = 1.213 MAX (SITE & DESIGN) F_V = 1.7 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)

☐ WITH SOILS REPORT - SITE CLASS "A", "B" OR "D"

NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE VALUE OF THE PARAMETERS S_{M1} IS INCREASED BY 50% FOR ALL APPLICATIONS OF S_{M1} (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION1)

S_s = 2.932 MAX (SITE) 2.050 (DESIGN) F_a = 1.0 S_{DS} = 1.95 MAX (SITE) 1.37 (DESIGN)

S_1 = 1.213 MAX (SITE & DESIGN) F_V = 1.7 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)

☐ WITH SOILS REPORT - SITE CLASS "C"

S_s = 2.440 MAX (SITE) 1.708 (DESIGN) F_a = 1.2 S_{DS} = 1.95 (SITE) 1.37 (DESIGN)

S_1 = 1.473 MAX (SITE & DESIGN) F_V = 1.4 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)

☐ WITH SOILS REPORT - SITE CLASS "E"

NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE EQUIVALENT LATERAL FORCE PROCEDURE IS USED FOR DESIGN AND THE VALUE OF C_S IS DETERMINED BY EQ (12.8-2) FOR ALL VALUES OF T (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION 2)

S_s = 1.718 MAX (SITE) 1.718 (DESIGN) F_a = 1.2 S_{DS} = 1.37 (SITE) 1.37 (DESIGN)

S_1 = 1.031 MAX (SITE & DESIGN) F_V = 2.0 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)

PER ASCE 7-16, SECTION 12.8.1.3:
THE VALUE OF C_S AND E_V ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5, PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:

1. STRUCTURE DOES NOT HAVE IRREGULARITIES
2. STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE
3. STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS
4. STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, ρ, TO BE TAKEN AS 1.0
5. SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS 'E' OR 'F'
6. STRUCTURE IS CLASSIFIED AS RISK CATEGORY II.

HVAC SCHEDULE

BUILDING SIZE & CLIMATE ZONE GROUP (ZONE)	# OF HVAC 3½ TON (BARD)	4 TON (BARD)	4 TON (SYSTEM AIR)	5 TON (SYTEM AIR)
☐ 24'x40' GROUP A (1,16)	1			
☐ 24'x40' GROUP B (2-5)	1			
☐ 24'x40' GROUP C (6-13)	1			
☐ 24'x40' GROUP D (14,15)		1		
☐ 36'x40' GROUP A (1,16)	1			
☐ 36'x40' GROUP B (2-5)	1			
☐ 36'x40' GROUP C (6-13)			1	
☐ 36'x40' GROUP D (14,15)				1
☐ 48'x40' GROUP A (1,16)	2			
☐ 48'x40' GROUP B (2-5)	2			
☒ 48'x40' GROUP C (6-13)	2			
☐ 48'x40' GROUP D (14,15)		2		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK O'NEILL
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1
2
3
4

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

TITLE SHEET

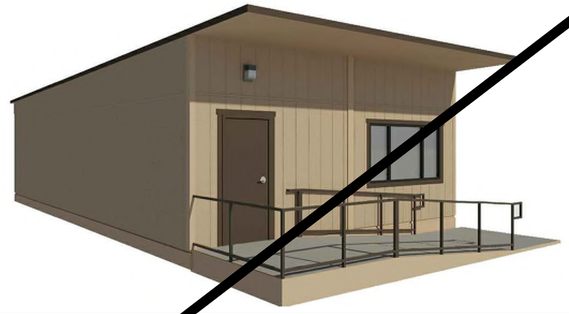
SHEET NUMBER:

TS

D:\XXXX - [redacted]\[redacted]\[redacted]\[

American Modular Systems

24' x 40' THRU 48' x 40' 2GO BUILDINGS (HIGH SEISMIC)



SHEET INDEX

ARCHITECTURAL

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		☐ N2.0	GENERAL NOTES & SPECIFICATIONS
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		☐ N5.0	MULTIPLE FLOOR PLAN CONFIGURATIONS
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		☐ A1.4	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 5-8
		☐ A1.5	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 3-4
ROOF PLAN & DETAILS		☐ A2.0	TYPICAL ROOF PLAN - METAL STANDING SEAM
		☐ A2.2	TYPICAL ROOF DETAILS - METAL STANDING SEAM
INTERIOR ELEVATIONS		☐ A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM
		☐ A4.1	INTERIOR ELEVATIONS - RESTROOM OPTIONS
		☐ A4.2	INTERIOR ELEVATIONS - RESTROOM OPTIONS
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS	DURATEMP 303 SIDING	☐ A5.0	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION
		☐ A5.1	TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION
	LAP SIDING	☐ A5.2	TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION
		☐ A5.3	TYPICAL ARCHITECTURAL DETAILS - LAP SIDING OPTION
SECTIONS		☐ A6.0	TYPICAL LONGITUDINAL & TRANSVERSE BUILDING SECTIONS
MISCELLANEOUS DETAILS		☐ A7.1	MISCELLANEOUS ARCHITECTURAL DETAILS
		☐ A8.0	1-HR FIRE RATED CONSTRUCTION DETAILS

STRUCTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
MEMBER PROPERTIES		☐ S0.0	LIGHT GAUGE STEEL MEMBER PROPERTIES
WOOD FOUNDATION PLANS & DETAILS	WOOD	☐ S2.0	WOOD FOUNDATION PLAN - 50 PSF LIVE LOAD
		☐ S2.1	WOOD FOUNDATION PLAN - 50 PSF LIVE LOAD 15 PSF PARTITION LOAD
		☐ S2.2	WOOD FOUNDATION PLAN - 100 PSF LIVE LOAD
		☐ S2.4	WOOD FOUNDATION DETAILS
FLOOR FRAMING PLAN & DETAILS	PLYWOOD	☐ S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR
ROOF FRAMING PLAN & DETAILS		☐ S4.0	ROOF FRAMING PLAN & DETAILS
		☐ S4.2	ROOF FRAMING DETAILS
BUILDING FRAMING ELEVATIONS & DETAILS		☐ S5.0	MOMENT FRAME ELEVATIONS & DETAILS
		☐ S5.1	MOMENT FRAME CONNECTION DETAILS
WALL FRAMING	WOOD STUDS	☐ S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
		☐ S8.1	WALL FRAMING DETAILS - WOOD STUDS
RAMP		☐ S10.0	TYPICAL
		☐ S10.1	RAMP D

MECHANICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS	☐ M1.0	TYPICAL REFLECTED CEILING PLAN
	☐ M1.1	TYPICAL MECHANICAL PLAN OPTIONS
	☐ M1.3	RESTROOM REFLECTED CEILING PLANS OPTIONS
DETAILS	☐ M1.4	MECHANICAL & CEILING DETAILS
	☐ M1.4A	MECHANICAL & CEILING DETAILS
	☐ M1.5	MECHANICAL & CEILING DETAILS
	☐ M1.5A	MECHANICAL & CEILING DETAILS
	☐ M1.6	MECHANICAL ROOM DETAILS
MISCELLANEOUS	☐ M1.7	CEILING NOTES & SPECIFICATIONS
	☐ M1.7A	MECHANICAL NOTES & SCHEDULES

ELECTRICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS & DETAILS	☐ E1.0	TYPICAL ELECTRICAL PLAN
	☐ E1.1	RESTROOM OPTIONS ELECTRICAL PLANS
	☐ E1.2	ELECTRICAL NOTES & DETAILS

PLUMBING

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLAN & DETAILS	☐ P1.0	RESTROOM OPTIONS, PLUMBING PLAN, & FIXTURE SCHEDULE
	☐ P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	☐ P3.0	PLUMBING ISOMETRIC DRAWINGS

SEE SHEET TS2-N FOR SITE SPECIFIC SHEET

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☑
DATE: 10/26/2023

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK GIBSON
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

SHEET INDEX

SHEET NUMBER:

TS2

GLXXXXX_24x40x40FS60x30x30-SEISMIC-SS-1000PSF2500PSF_48"OPTIONS.pdf 10/26/2023 8:56:38 AM \\Shared\Projects\PROJFiles\2023\GLXXXXX_24x40x40FS60x30x30-SEISMIC-SS-1000PSF2500PSF_48"OPTIONS.rvt

American Modular Systems

JURUPA USD - SKY COUNTRY ES
48' x 40' CLASSROOMS

SHEET INDEX

ARCHITECTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
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		☒ TS-2	SHEET INDEX
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GENERAL NOTES & SPECIFICATIONS		☒ N1.0	GENERAL NOTES & SPECIFICATIONS
		☒ N2.0	GENERAL NOTES & SPECIFICATIONS
		☒ N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES
		☒ N4.0	ACCESSIBILITY STANDARDS AND DETAILS
		☒ N5.0	MULTIPLE FLOOR PLAN CONFIGURATIONS
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		☐ EN.2-EN.3	ENERGY CALCULATIONS - 24x40 BUILDING - GROUP 'A'
		☐ EN.4-EN.5	ENERGY CALCULATIONS - 24x40 BUILDING - GROUP 'B'
		☐ EN.6-EN.7	ENERGY CALCULATIONS - 24x40 BUILDING - GROUP 'C'
		☐ EN.8-EN.9	ENERGY CALCULATIONS - 24x40 BUILDING - GROUP 'D'
		☐ EN.10-EN.11	ENERGY CALCULATIONS - 36x40 BUILDING - GROUP 'A'
		☐ EN.12-EN.13	ENERGY CALCULATIONS - 36x40 BUILDING - GROUP 'B'
		☐ EN.14-EN.15	ENERGY CALCULATIONS - 36x40 BUILDING - GROUP 'C'
		☐ EN.16-EN.17	ENERGY CALCULATIONS - 36x40 BUILDING - GROUP 'D'
		☐ EN.18-EN.19	ENERGY CALCULATIONS - 48x40 BUILDING - GROUP 'A'
		☐ EN.20-EN.21	ENERGY CALCULATIONS - 48x40 BUILDING - GROUP 'B'
		☒ EN.22-EN.23	ENERGY CALCULATIONS - 48x40 BUILDING - GROUP 'C'
		☐ EN.24-EN.25	ENERGY CALCULATIONS - 48x40 BUILDING - GROUP 'D'
		☒ EN.26-EN.28	ENERGY CALCULATIONS - SUPPLEMENTAL SHEETS
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		☐ A1.2	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 13-ADULT
		☐ A1.3	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 9-12
		☐ A1.4	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 5-8
		☐ A1.5	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 3-4
ROOF PLAN & DETAILS		☒ A2.0	TYPICAL ROOF PLAN - METAL STANDING SEAM
		☒ A2.2	TYPICAL ROOF DETAILS - METAL STANDING SEAM
INTERIOR ELEVATIONS		☒ A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM
		☒ A4.1	INTERIOR ELEVATIONS - RESTROOM OPTIONS
		☐ A4.2	INTERIOR ELEVATIONS - RESTROOM OPTIONS
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS	DURATEMP 303 SIDING	☒ A5.0	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION
		☒ A5.1	TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION
	LAP SIDING	☐ A5.2	TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION
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STRUCTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
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		☒ S5.1	MOMENT FRAME CONNECTION DETAILS
WALL FRAMING	WOOD STUDS	☒ S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
		☒ S8.1	WALL FRAMING DETAILS - WOOD STUDS
RAMP		☒ S10.0	TYPICAL RAMP PLANS & NOTES
		☒ S10.1	RAMP DETAILS

MECHANICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS	☒ M1.0	TYPICAL REFLECTED CEILING PLAN
	☒ M1.1	TYPICAL MECHANICAL PLAN OPTIONS
	☐ M1.3	RESTROOM REFLECTED CEILING PLANS OPTIONS
DETAILS	☒ M1.4	MECHANICAL & CEILING DETAILS
	☐ M1.4A	MECHANICAL & CEILING DETAILS
	☒ M1.5	MECHANICAL & CEILING DETAILS
	☐ M1.5A	MECHANICAL & CEILING DETAILS
	☒ M1.6	MECHANICAL ROOF DETAILS
MISCELLANEOUS	☒ M1.7	CEILING NOTES & SPECIFICATIONS
	☐ M1.7A	MECHANICAL NOTES & SCHEDULES

ELECTRICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS & DETAILS	☒ E1.0	TYPICAL ELECTRICAL PLAN
	☐ E1.1	RESTROOM OPTIONS ELECTRICAL PLANS
	☒ E1.2	ELECTRICAL NOTES & DETAILS

PLUMBING

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLAN & DETAILS	☒ P1.0	RESTROOM OPTIONS, PLUMBING PLAN, & FIXTURE SCHEDULE
	☒ P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	☒ P3.0	PLUMBING ISOMETRIC DRAWINGS

TOTAL SHEET COUNT 63

ARCHITECTURAL

OPTIONS	SHEET NUMBER	SHEET TITLE
COVER SHEET	☒ TS-N	TITLE SHEET
SHEET INDEX	☒ TS-2-N	SHEET INDEX
SCHEDULE	☒ N3.0-N	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES
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	☒ A1.2-N	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 13-ADULT
INTERIOR ELEVATIONS	☒ A4.0-N	INTERIOR ELEVATIONS - TYPICAL CLASSROOM
	☒ A4.0.1	INTERIOR ELEVATIONS - RESTROOM OPTIONS
DURATEMP 303 SIDING	☒ A5.0-N	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION
MECHANICAL	☒ M1.0-N	TYPICAL REFLECTED CEILING PLAN
	☒ M1.1-N	TYPICAL MECHANICAL PLAN OPTIONS
ELECTRICAL	☒ E1.0-N	TYPICAL ELECTRICAL PLAN
	☒ E1.2-N	ELECTRICAL NOTES & DETAILS
PLUMBING	☒ P2.0-N	PLUMBING DETAILS & ACCESSIBLE DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK CARNEY
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	9/23/25
PROJECT NO:	1977-25

SHEET TITLE:

SHEET INDEX

SHEET NUMBER:

TS2-N

AUTHORIZED USE: ALL INFORMATION INCLUDED ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

Additional In ormation or PC designs only, not to e added to DSA-103:			
	STOCKPILE	**CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING**	**RELOCATION OF CERTIFIED RELOCATABLE BUILDING**
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 or Single Story Site: Class 2 or Two-Story	Class 4 or Single Story Class 2 or Two-Story
Selection of the Project Inspector and Testing/Special Inspection Agency	y the Owner (not manu acturer) and approved y DSA, A/E o Record and Structural Engineer	y the School District and approved y DSA and A/E responsi le or in-plant construction o servation.	y the Owner (not manu acturer) and approved y DSA, A/E o Record and Structural Engineer
Cost of the Project Inspector (CAC, Section 4-333(b)) and Testing/Special Inspection Agency (CAC, Section 4-335(b))	y the Owner (not manu acturer)	y the School District	

NOTES:
NOTE 1: REINFORCING STEEL TESTS MAY BE WAIVED FOR ONE-STORY BUILDINGS, PER CBC, SECTION 1910A.2 (1909.2.4).
NOTE 2: REQUIRED ONLY WHERE THE DETAILS OF THE PC SPECIFY THE USE OF THIS TYPE OF ANCHOR.
NOTE 3: REQUIRED ONLY WHERE THE DETAILS OF THE PC SPECIFY THIS WELDING.
NOTE 4: THESE TESTS AND INSPECTIONS ARE APPLICABLE ONLY WHEN A GEOTECHNICAL REPORT IS REQUIRED.
NOTE 5: WOOD FOUNDATIONS ARE NOT PERMITTED FOR PERMANENT MODULAR BUILDINGS PER CBC SECTION 1807A.1.4.

INDICATES ALTERNATIVE CBC SECTIONS THAT COMMUNITY COLLEGES MAY USE PER CBC SECTION 1.9.2.2.

FOOTNOTES

1. WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)
   A. CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE "NATIONAL READY MIXED CONCRETE ASSOCIATION" OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
   B. IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:
      a) AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
) THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
      c) BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
2. ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2):
   A. BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
      a) SITE FLATWORK,
) UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS,
      c) CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
      d) SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
3. PER CBC 1910A.2, TESTING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
4. REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
5. NOT USED
6. THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
7. THE NONDESTRUCTIVE TESTING INSPECTION IS TBD BY AOR/DSA PER PROJECT SPECIFIC REQUIREMENTS. ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF $\frac{5}{16}$" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2022 CBC 1705A.2.1.
8. EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
9. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2022 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122043
DSA File Number:
School Name: PC
Increment Number:
School District: PC
Date Created: 2023-09-19 17:49:54

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

2. PERFORMED BY

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c.** 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ROGER PATRICK CUNNINGHAM
No. C12631
Ren. 9-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

FORM
DSA-103

SHEET NUMBER:

D1

ID:XXXXX_{d4c4b4f3-f3f9-0fc-b8c-6f3e5f8f3f3}%PC%PRE%

SECTION 1 GENERAL REQUIREMENTS

1. GENERAL
   - A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
   - B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
   - C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2022 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
2. SCOPE OF WORK
   - A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
   - B. ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
     1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDPRC.
     2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THESE INSPECTORS SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
     3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
     4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
     5. ADDENDUMS SHALL BE SIGNED BY THE RDPRC & APPROVED BY D.S.A.
     6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & THE RDPRC & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT.
     7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
     8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
     9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
     10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
     11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
     12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
     13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER. SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0 FOR ADDITIONAL REQUIREMENTS.
     14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

1. ALLOWABLE SOIL BEARING:
   - 1000 P.S.F. FOR WOOD FOUNDATIONS MAX
2. WOOD FOUNDATIONS SHALL BE CONSTRUCTED PER ALL NOTES, SPECIFICATIONS & DETAILS NOTED ON SHEETS S2.0 - S2.4 OF THIS DRAWING PACKAGE.

NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT, FOR TEMPORARY BUILDINGS.

3. WORK NOT INCLUDED:
   - A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   - B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   - C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 5 STEEL

1. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2, AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
   - A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER 'I'.
2. WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTIONS 1705A.2.5 WELDING ELECTRODE SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-16. SECTION 6.1.
3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   - A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O.
   - B. STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. NOTE: ASTM A572 (50 KSI) MAY BE SUBSTITUTED FOR A36 (36 KSI). WHERE DRAWINGS SPECIFY 36 KSI MIN., CHANNELS MAY CONFORM TO EITHER ASTM A36 (36KSI) OR ASTM A572 (50 KSI).
   - C. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05% TYP. U.N.O.
   - D. STRUCTURAL STEEL TUBING (HSS) SHALL CONFORM TO ASTM A500 GRADE B OR C OR ASTM A1085, TYP. U.N.O.
   - E. STEEL PLATES, ANGLES, BARS AND MISC. SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. NOTE: ASTM A572 (50 KSI) MAY BE SUBSTITUTED FOR A36 (36 KSI).
   - F. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.
4. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
5. NAILS, BOLTS, SCREWS AND NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
   - A. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER IF BOLT 1/16" UNLESS OTHERWISE NOTED. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
   - B. SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS & SCREWS.
6. HANDRAILS - FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH.
7. SHOP PAINT
   - A. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
   - B. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
8. TESTS
   - A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS
   LUMBER GRADE MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DOC PS 20-20 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES", LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-19 FOR SOFTWOOD OSB OR PLYWOOD, OF AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.
   - A. JOISTS, HEADERS, PLATES STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MIN. U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
   - B. PSL HEADERS: TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR EQUIV. MEETING THE FOLLOWING STRUCTURAL PROPERTIES:

BEAMS ≤ 7" DEEP & COLUMNS	BEAMS ≥ 9¼" DEEP
F = 2400 PSI MIN.	F = 2900 PSI MIN.
F_v = 190 PSI MIN.	F_v = 290 PSI MIN.
E = 1.8E6 PSI MIN.	E = 2.0E6 PSI MIN.

   - C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
   - D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
   - E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F.) #2 ABOVE GROUND.
   - F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2 & ASTM D226, TYPE I.
   - G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
   - H. FASTENERS - FASTENERS SHALL BE CORROSION RESISTANT PER C.B.C. 2304.10.1.1 COMMON NAILS PER ASTM F1667 FOR EXTERIOR SIDING & FOUNDATION ONLY.
   - I. BUILDING TRIM - 2x RESAWN SELECT D.F., H.F., OR CEDAR.
   - J. DOOR/WINDOW TRIM - 1x4 RESAWN D.F., H.F., OR CEDAR.
   - K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
   - L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2
   - M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE NOTED.
   - N. ALL CUT ENDS & HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
   - O. ALL BOLTS & LAG SCREWS SHALL COMPLY WITH THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015).

CARPENTRY continued

   - P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT 1/16".
   - Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.
   - R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
3. WORKMANSHIP
   - A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
   - B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.10.1.
   - C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
   - D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.
   - E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE RDPRC AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
   - F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
   - G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7A SHEET METAL (NON-STRUCTURAL)

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
   - A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN ASTM B32.
   - C. FLUX - ZINC SATURATED MURIATIC ACID.
   - D.

GUTTERS:	26 GA. G-90 GALV. STEEL
DOWNSPOUTS:	2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL
GUTTER ENDCAPS:	26 GA. G-90 GALV. STEEL
GUTTER CLIPS:	18 GA. G-90 GALV. STEEL
FLASHING:	22 GA. G-90 GALV. STEEL

   - E. FASTENERS:
     SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS.
     LENGTH TO HAVE (3) EXPOSED THREADS MIN.
3. WORKMANSHIP
   SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7B METAL ROOFING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING.
2. MATERIALS
   - A. ROOF: 3 INCH STANDING SEAM, MINIMUM 20-GAUGE G-90 GALV. INTERLOCKING (UN-PENETRATED) SHEET STEEL PANELS (G90).
   - B. CLASS A.
   - C. FASTENERS SHALL BE HOT-DIPPED GALVANIZED.

SECTION 7C SEALANT

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
   VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
   - A. SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)
3. WORKMANSHIP
   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 8 HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
   - A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
   - B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
   ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9B PAINTS & COATINGS

1. SCOPE OF WORK.
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
   - A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

   - B. FOR INTERIOR TRIM:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

   - C. FOR METAL:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

   - D. INTERIOR PAINT & COATINGS SHALL COMPLY WITH TITLE 24, PART 11, "CAL-GREEN" SECTION 5.504.4.3, AND V.O.C. LIMITS PER TABLE 5.504.4.3.
3. WORKMANSHIP
   ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS AND METAL ROOFING. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
   - A. EXTERIOR WOOD SIDING, TRIM AND SKIRTING - FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
   - B. INTERIOR TRIM - TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
   - C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
   - D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
   - E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST, OR EQUAL.
   - F. SUBMIT ONE SET OF COLOR SAMPLES TO THE RDPRC FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 9C INTERIOR AIR QUALITY CONTROL

THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):

1. ADHESIVES, SEALANTS, CAULKS — SECTION 5.504.4.1
2. PAINTS, COATINGS — SECTION 5.504.4.3
3. AEROSOL PAINTS & COATINGS — SECTION 5.504.4.3.1
4. CARPET SYSTEMS — SECTION 5.504.4.4
   - A. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI "140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4.
5. CARPET CUSHION OR PAD — SECTION 5.504.4.4.1
   - A. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM.
6. CARPET ADHESIVE — SECTION 5.504.4.4.2
   - A. ADHESIVES SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
7. COMPOSITE WOOD PRODUCTS — SECTION 5.504.4.5
   - A. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17 CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5.
8. RESILIENT FLOORING SYSTEMS — SECTION 5.504.4.6
   - A. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE" PROGRAM BY RFCI, COMPLY WITH CA-CHPS, OR OTHER APPROVED TESTING PER 5.504.4.6.
9. HVAC FILTER MERV RATING OF 13 AND MINIMUM 2-INCH DEPTH) SECTION 5.504.5.3.1
   - A. SEE SHEET M1.7 FOR HVAC FILTER REQUIREMENTS

SECTION 13 SITE ASSEMBLY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
   - A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
   - B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
   - C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES)
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
   SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
   UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 26 ELECTRICAL

1. SCOPE OF WORK
   - A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT, EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVACS).
   - B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.
2. MATERIALS
   ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.
   - A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C. JACKET.
   - B. PANEL BOARDS - FLUSH MOUNTED.
   - C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE-#14.
   - D. RECEPTACLES - AS NOTED. 18" A.F.F. MIN. TO BOTTOM OF BOX
   - E. CLOCK RECEPTACLE - AS NOTED.
   - F. SWITCHES - AS NOTED. 48" A.F.F. MAX. TO TOP OF BOX
   - G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP
   MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND SEALTITE).

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-IPI).

A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE:

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

1. ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS THE CASE.

3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

1. UP TO FOUR (4) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT TWO (2) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

   A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
   B. DESIGN WIND SPEED / EXPOSURE
   C. DESIGN SEISMIC S_{DS} VALUE
   D. DESIGN ROOF LIVE LOAD & SNOW LOAD.
   E. DESIGN FLOOR LIVE LOAD
   F. D.S.A. APPLICATION NUMBER

3. 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

4. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

5. EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

6. FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45l s./cu. t. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

INTERIOR

1. FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDPRC OR OWNER.)

2. BASE: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.

INTERIOR CONTINUE

3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.

4. CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636, ASTM E580, AND DSA-IR 25-2.13 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.

5. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
(SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")

6. FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

WALL FINISH MATERIAL (CLASS 'C')	PIPE INSULATION (CLASS 'A')
FLAME SPREAD MAX = 200	FLAME SPREAD MAX = 25
SMOKE DEVELOPED MAX = 450	SMOKE DEVELOPED MAX = 450
BUILDING INSULATION (CLASS 'A')	DUCT INSULATION (CLASS 'A')
FLAME SPREAD MAX = 25	FLAME SPREAD MAX = 25
SMOKE DEVELOPED MAX = 450	SMOKE DEVELOPED MAX = 50

7. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS) - TOILET PARTITIONS SHALL COMPLY WITH ACCESSIBILITY STANDARDS LISTED ON THIS PAGE.

8. INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C SECTION 1202.2.2.

ACCESSIBLE TOILET COMPARTMENTS:

1. TOE CLEARANCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH CBC SECTION AND FIGURE 11B-604.8.1.4. TOE CLEARANCE SHALL BE 12" HIGH MINIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCUSIVE OF PARTITION SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE THE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARANCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE.

2. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE PROVIDED WHERE THERE ARE SIX OF MORE TOILET COMPARTMENTS, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTAL SIX OR MORE FIXTURES. SUCH COMPARTMENTS SHALL BE PROVIDED IN THE SAME QUANTITY AS WHEELCHAIR ACCESSIBLE COMPARTMENTS PER CBC SECTION 11B-213.3.1 AND SHALL COMPLY WITH CBC SECTION 11B-604.8.2.

3. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND SHALL COMPLY WITH CBC SECTION 11B-404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF AN AMBULATORY COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" MINIMUM. CBC FIGURE 11B-604.8.2.

4. A DOOR PULL COMPLY WITH CBC SECTION 11B-404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE ACCESSIBLE COMPARTMENT DOOR NEAT THE LATCH.

5. AMBULATORY ACCESSIBLE TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE OR INTO THE MINIMUM REQUIRED COMPARTMENT AREA. CBC SECTION 11B-604.8.2.2

6. ELEMENTS OF SANITARY FACILITIES SHALL BE MOUNTED AT LOCATIONS IN COMPLIANCE WITH CBC SECTIONS 11B-602 THROUGH 11B-612.

7. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY WITH CBC SECTION 11B-609. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. THE SPACE AROUND THE GRAB BARS SHALL BE AS FOLLOWS:

   - 1 ½" BETWEEN THE GRAB BAR AND THE WALL.
   - 1 ½" MINIMUM BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND THE ENDS.
   - 12"MINIMUM BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE.

DOORS & WINDOWS SEE SECTION 8 PREVIOUS PAGE

1. EXTERIOR DOORS: METAL DOORS 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & CS242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).

2. EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE. FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL (100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

DOORS & WINDOWS SEE SECTION 8 PREVIOUS PAGE (CONTINUATION)

3. GLAZING MATERIAL SHALL BE: EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.

4. HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.

5. WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE INSPECTOR TO VERIFY.

MECHANICAL EQUIPMENT PROTECTION

1. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FIRE EXTINGUISHER

1. EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.
2. FIRE EXTINGUISHER CABINETS MUST COMPLY WITH CBC SECTIONS 11B-305, 11B-307, 11B-308, AND 11B-309.

ACCESSIBILITY STANDARDS

REFERENCE: 2022 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL
1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

SECTION 11B-216 SIGNAGE
(ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)
SIGNAGE IS REQUIRED:
1. TO IDENTIFY PERMANENT ROOMS & SPACES
2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES
3. TO IDENTIFY MEANS OF EGRESS
   A. DIRECTIONS TO AN EXIT (PER 1009.10)
   B. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
   C. EXIT WAYS (PER 1013.4)
      - AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
      - AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
      - AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
      - OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER 1013.1)
4. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE
5. TO IDENTIFY TOILET ROOMS
6. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

POST MOUNTED SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

SECTION 11B-404.2.8 DOOR CLOSING SPEED
1. THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12° FROM THE LATCH.

SECTION 11B-404.2.9 DOOR OPENING FORCE
1. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. (WHEN SPECIFICALLY APPROVED BY DSA) THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS
1. DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

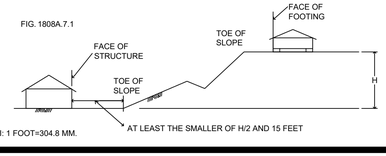
SECTION 11B-405.5 RAMP WIDTH
1. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

SECTION 11B-505 HANDRAILS
1. THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
2. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THEIR SIDES MAX. 20% OBSTRUCTIONS ON THEIR BOTTOMS (11B-505.6).
3. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.

SECTION 11B-606.4 WATER CONTROLS
1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS
1. AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
2. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. THE LATCH AND PULL SHALL COMPLY WITH 11B-404.2.7. MAXIMUM 5 LB FORCE TO ACTIVATE (11B-309.4).
3. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
4. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK AND THE LAV FRONT EDGE.
5. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE.
6. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27", SHALL PROJECT MAX. 4" FROM WALL OR PARTITION. (11B-307.2).

FIG. 1808A.7.1



FOR SI: 1 FOOT=304.8 MM.

OUTDOOR VENTILATION REQUIREMENTS:

1. CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PEERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

FASTENERS FOR ATTACHMENT TO STEEL

1. SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513, UON.
   A. HEAD TYPE AS REQUIRED FOR APPLICATION.
   B. SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN.
2. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
3. SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL SHALL BE BY HILTI UNO.

GENERAL NOTE

IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL ON RECORD TO ENSURE THAT ALL SPECIFICATIONS MEET THE MINIMUM REQUIREMENTS OF THE CURRENT EDITION S OF THE CALIFORNIA STATE TITLES 19 AND 24. APPROVAL OF THESE SPECIFICATIONS DOES NOT CONSTITUTE APPROVAL FOR WAIVER OR ANY REQUIREMENTS OF THOSE REGULATIONS.

ABBREVIATION LEGEND

A	ACCESSIBLE	FRP	FIBERGLASS REINFORCED PLASTIC PANELS		RESPONSIBLE CHARGE
AC	ASPHALT CONCRETE	FT	FOOT	RDWD	REDWOOD
A/C	AIR CONDITIONING	FTG	FOOTING	REF	REFERENCE
ACI	AMERICAN CONCRETE INSTITUTE	FURR	FURRED (-ING)	REFR	REFRIGERATOR
ACOUS	ACOUSTICAL	GA	GAUGE	REINF	REINFORCING
ADD	ADDENDUM	GB	GYPSUM BOARD	REQ'D/REQ	REQUIRED
ADD'L	ADDITIONAL	GL	GLASS OR GLAZING	RES	RESILIENT
ADJ	ADJUSTABLE OR ADJACENT	GLV/GALV	GALVANIZED	RDWD	REDWOOD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GSM	GALVANIZED SHEET METAL	RWL	RAIN WATER LEADER
AISI	AMERICAN IRON AND STEEL INSTITUTE	GYP	GYPSUM		
ALT	ALTERNATE	GYP.BD.	GYPSUM BOARD	SCH/SCHED	SCHEDULE
ALUM	ALUMINUM			SD	STORM DRAIN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HB	HOSE BIBB	SDSTS	SELF DRILLING SELF TAPPING SCREW
		H.C.	HOLLOW CORE	SEC	SECTION
ARCH	ARCHITECT(URAL)	HDR	HEADER	SEP	SEPARATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HDW	HARDWOOD	SF	SQUARE FEET
		HF	HEM FIR	SHT	SHEET
AWC	AMERICAN WOOD COUNCIL	HM	HOLLOW METAL (STEEL)	SHTG	SHEATHING
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION	HOR/HORIZ	HORIZONTAL	SIM	SIMILAR
		HSS	HOLLOW STRUCTURAL SECTION (STEEL)	SMS	SHEET METAL SCREW
AWS	AMERICAN WELDING SOCIETY	HT	HEIGHT	SP	STRUCTURAL PLYWOOD
		HVAC	HEATING VENTILATING AIR CONDITIONING	SPEC	SPECIFICATIONS
BD	BOARD	HW	HOT WATER	SQ	SQUARE
BLDG	BUILDING			SS	STAINLESS STEEL
BLK	BLOCK	IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS	STAGG	STAGGERED
BLKG	BLOCKING			STN	STAIN
BLW	BELOW	ICC	INTERNATIONAL CODE COUNCIL	STD	STANDARD
BM	BEAM	ID	INSIDE DIAMETER	STL	STEEL
BN	BOUNDARY NAILING	IN	INCH	STS	SELF TAPPING SCREW
B

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	REMARKS
1	D1	3'-0" x 7'-0"	-		PT	A	F1	S	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	D2	3'-0" x 7'-0"	-	HM	PT	H/I	F1	S	PT	
3	D3	2'-0" x 7'-0"	-	HM	PT	I	F2	S	PT	
4	D4	3'-0" x 7'-0"	-	SC	CLR	D	F1	S	PT	

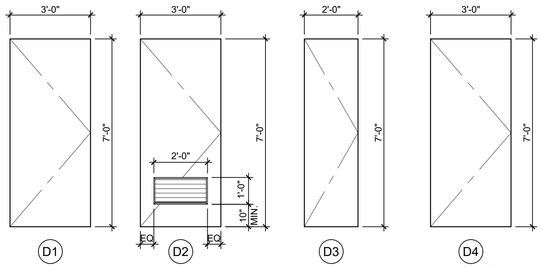
DOOR ABBREVIATIONS

HM - HOLLOW METAL
AL - ALUMINUM
S - STEEL
SST - STAINLESS STEEL
STL - STEEL FRAME, 16ga. FULLY WELDED
WWF - WINDOW WALL FRAME
SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
PT - PAINTED
CA - CLEAR ANODIZED
BR - BRONZE ANODIZED
CLR - CLEAR FINISH

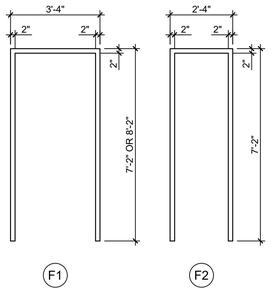
DOOR NOTES

1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
2. CLASSROOMS > 1000 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.9.
3. PER C.B.C. 1010.2.8.2: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.2.

DOOR TYPES



DOOR FRAME TYPES



DOOR HARDWARE SCHEDULE

A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD - CLASSROOM LOCK
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22PANL (REQUIRED WHEN OCCUPANT LOAD IS 50 0R MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ LEVER
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ LEVER
H	EXTERIOR DOOR LOCKSET w/LEVER & PUSH BUTTON RHODES SCHLAGE ND85PD - SINGLE USER RESTROOM LOCK
I	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND70PD - MULTI-ACCOMODATION RESTROOM LOCK
J	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND80PD - STOREROOM LOCK

EXTERIOR DOOR HARDWARE

1. HINGES: HAGER 4-1/2x4 BB BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
2. CLOSER: NORTON 8500A OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE) ALL SCHLAGE HARDWARE IS PROVIDED WITH A CLOSER
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
4. THRESHOLD: ALL THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR HARDWARE NOTES

1. 11B-404.2.3 CLEAR WIDTH
   DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (914 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

   EXCEPTIONS:
   1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (15.9 MM) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.
   2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1981 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 l s. MAX. (11B-404.2.7, 11B-309.4)

3. DOORS SHALL BE OPERABLE FROM INSIDE WITH A SINGLE MOTION W/O THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE.

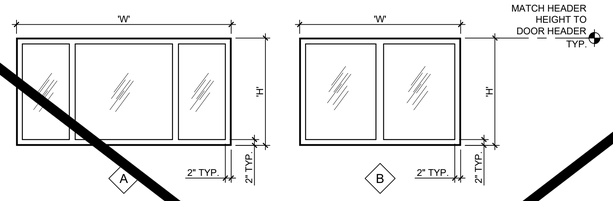
4. EMERGENCY EXIT AND PANIC HARDWARE
   EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302
   A) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE
   D) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

WINDOW SCHEDULE

WINDOW TYPE	QTY.	FUNCTION	'W' WIDTH	'H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VLT MIN	MIN STC RATING	REMARKS
A	-	FIXED	10'-0" MAX.	8'-0" MAX.	BRONZE ANODIZED	SOLAR GREY[6]	0.42	0.25	0.44	27	INOPERABLE
B	-	FIXED	6'-0" MAX.	6'-0" MAX.	BRONZE ANODIZED	SOLAR GREY[6]	0.42	0.25	0.44	27	INOPERABLE

1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
2.
3. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
   A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
   B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3
4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.
5. WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).
6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.
7. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON PLANS.



IDENTIFICATION OF GLASS & SAFETY GLAZING PER CBC CHAPTER 24

NOTE: WINDOWS #

SEE SHEET N3.0-N FOR SITE SPECIFIC SHEET

ROOM FINISHES SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS FRONT	WALLS REAR	WALLS RIGHT	WALLS LEFT	CEILING	CEILING HEIGHT	REMARKS
101 TYP	CLASSROOM - STANDARD	A	D	F	F	F	F	K	8'-6"	
102 TYP	CLASSROOM - STANDARD	A	D	F	F	F	F	K	8'-6"	
--- TYP	BOYS R.R.	B	E	J	J	J	J	H	8'-6"	
--- TYP	GIRLS R.R.	B	E	J	J	J	J	H	8'-6"	
--- TYP	STAFF ROOM	B	E	J	J	J	J	H	8'-6"	
--- TYP	SINGLE TOILET R.R.	B	E	J	J	J	J	H	8'-0"	

FINISHES

FINISH INDICATOR OPTIONS

A - CARPET PER STATE OF CA SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.
B - VINYL SHEET FLOORING 0.6 MIN, C.D.F. PER ASTM D 2047
C - VCT ARMSTRONG, STANDARD, OR EXCELON.
D - TOP SET BASE 4"
E - TOP SET BASE 6"
F - WALL FINISH 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
G - 1/2" W.R. GYP BOARD TAPE, PAINTED FINISH
H - 1/2" GYP BOARD TAPE, PAINTED FINISH
J - 3/32" F.R.P. OVER 1/2" W.R. GYP BOARD
K - ACOUSTICAL LAY-IN GRID CEILING PANELS 2'x2' OR 2'x4'
L - 1/2" VINYL TACKBOARD CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING
M - 5/8" TYPE 'X' GYP BOARD TAPE, TEXTURE, PAINTED FINISH
N - CERAMIC TILE - (FULL HEIGHT AT WALLS)

ALL INTERIOR FINISHES SHALL COMPLY WITH CFC, CBC & TITLE 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK CRAIG
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

TYPICAL SCHEDULES
DOORS, WINDOWS
& FINISHES

SHEET NUMBER:

N3.0

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DOORS / FRAMES

DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	REMARKS
1	D1	3'-0" x 7'-0"	1	HM	PT	B	F1	STL	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	D2	6'-0" x 7'-0"	1	HM	PT	B	F2	STL	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
3	D3	3'-0" x 7'-0"	2	SC	PT	D	F1	STL	PT	
4	D4	3'-0" x 7'-0"	6	SC	PT	E	F1	STL	PT	

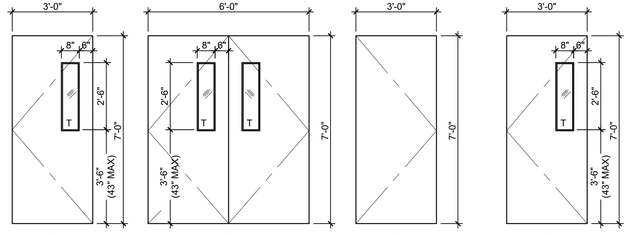
DOOR ABBREVIATIONS

HM - HOLLOW METAL
AL - ALUMINUM
S - STEEL
SST - STAINLESS STEEL
STL - STEEL FRAME, 16ga. FULLY WELDED
WWF - WINDOW WALL FRAME
SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
PT - PAINTED
CA - CLEAR ANODIZED
BR - BRONZE ANODIZED
CLR - CLEAR FINISH

DOOR NOTES

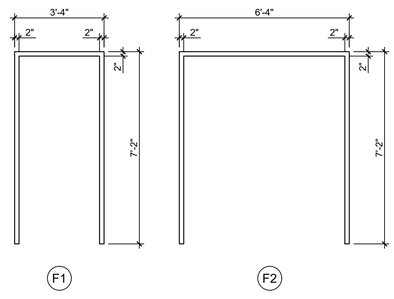
1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
2. CLASSROOMS > 1000 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.2.9.
3. PER C.B.C. 1010.2.8.2: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.2.

DOOR SCHEDULE



T = TEMPERED GLAZING

DOOR TYPES



DOOR FRAME TYPES

A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 0R MORE)
C	~~INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER~~
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER
F	~~INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER~~
G	~~INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER~~

EXTERIOR DOOR HARDWARE

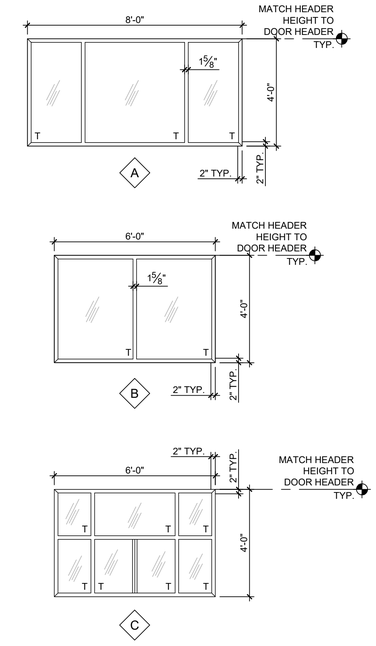
1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE) ALL SCHLAGE HARDWARE IS PROVIDED WITH A CLOSER
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR HARDWARE SCHEDULE

WINDOW TYPE	QTY.	FUNCTION	'W' WIDTH	'H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VLT MIN	MIN STC RATING	REMARKS
A	4	FIXED	8'-0"	4-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.42	0.25	0.44	27	INOPERABLE
B	2	FIXED	6'-0"	4-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.42	0.25	0.44	27	INOPERABLE
C	1	SLIDER	6'-0"	4-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.42	0.25	0.44	27	OPERABLE

1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
2.
3. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
   A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
   B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3
4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.
5. WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).
6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.
7. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON PLANS.

WINDOW SCHEDULE



NOTE:
1. WINDOWS A & B ARE INOPERABLE.
2. T = TEMPERED GLAZING

WINDOW TYPES

DOOR HARDWARE NOTES

1. 11B-404.2.3 CLEAR WIDTH
   DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (914 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

   EXCEPTIONS:
   1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (15.9 MM) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.
   2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1981 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 l s. MAX. (11B-404.2.7, 11B-309.4)
3. DOORS SHALL BE OPERABLE FROM INSIDE WITH A SINGLE MOTION W/O THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE.
4. EMERGENCY EXIT AND PANIC HARDWARE
   EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302
   A) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE
   D) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

FINISHES

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING	CEILING HEIGHT	REMARKS
				FRONT	REAR	RIGHT	LEFT			
101	KITCHEN	O	D	J	J	J	J	K	8'-6"	
102 & 103	RESTROOMS	B	E	J	J	J	J	M	8'-6"	
104-109	OFFICES - LOBBY - CONFERENCE	A	D	F	F	F	F	K	8'-6"	

FINISH INDICATOR OPTIONS

A - CARPET PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.
B - VINYL SHEET FLOORING 0.6 MIN, C.D.F. PER ASTM D 2047
C - VCT ARMSTRONG, STANDARD, OR EXCELON.
D - TOP SET BASE 4"
E - 6" SELF COVED BASE
F - WALL FINISH 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
~~G - 1/2" W.R. GYP BOARD TAPE, PAINTED FINISH~~
~~H - 1/2" GYP BOARD TAPE, PAINTED FINISH~~
J - 3/32" F.R.P. OVER 1/2" W.R. GYP BOARD
K - ACOUSTICAL LAY-IN GRID CEILING PANELS 2'x4'
~~L - 1/2" VINYL TACKBOARD CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING~~
M - 5/8" TYPE 'X' GYP BOARD TAPE, TEXTURE, PAINTED FINISH
~~N - CERAMIC TILE - (FULL HEIGHT AT WALLS)~~
O - LVT FLOORING

ALL INTERIOR FINISHES SHALL COMPLY WITH CFC, CBC & TITLE 19

ROOM FINISHES SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK D. LEWIS
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	-
2	
3	
4	

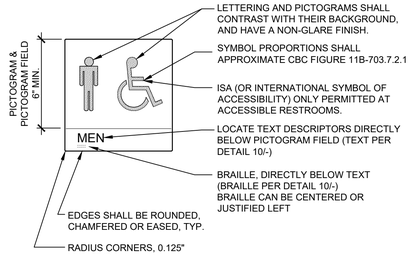
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

SHEET TITLE:

TYPICAL SCHEDULES
DOORS, WINDOWS
& FINISHES

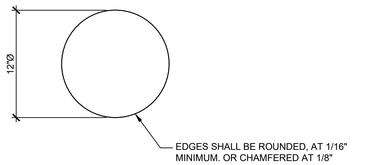
SHEET NUMBER:

N3.0-N



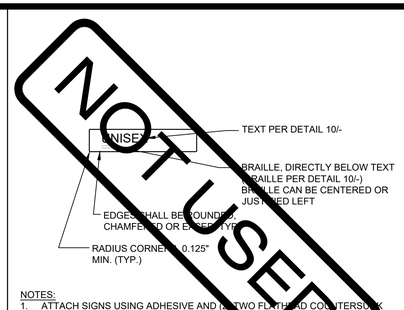
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

WALL MOUNTED RESTROOM SYMBOLS-MEN — NOT TO SCALE — 1



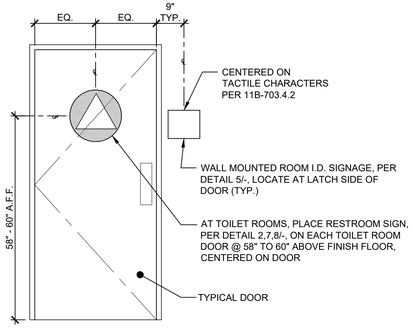
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

DOOR MOUNTED RESTROOM SYMBOLS-WOMEN — NOT TO SCALE — 2



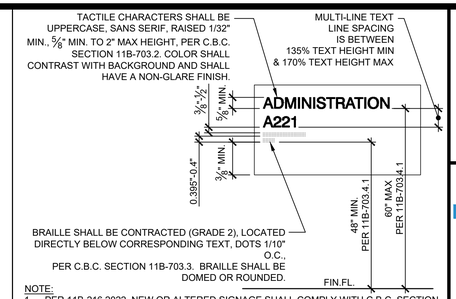
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT, CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

WALL MOUNTED RESTROOM SYMBOLS-UNISEX — NOT TO SCALE — 3



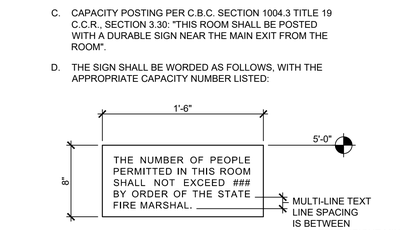
NOTE:
SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

ROOM IDENTIFICATION SIGNAGE — NOT TO SCALE — 4



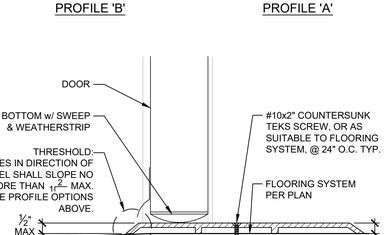
NOTE:
1. PER 11B-216 2022, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
5. SIGN TO BE PLACED PER DETAIL 4/-

PERMANENT ROOM I.D. SIGNAGE — NOT TO SCALE — 5



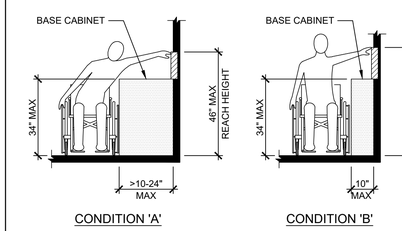
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

WALL MOUNTED RESTROOM SYMBOLS-WOMEN — NOT TO SCALE — 6



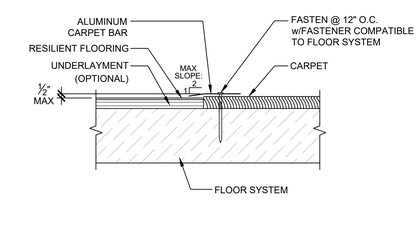
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

DOOR MOUNTED RESTROOM SYMBOL-MEN — NOT TO SCALE — 7



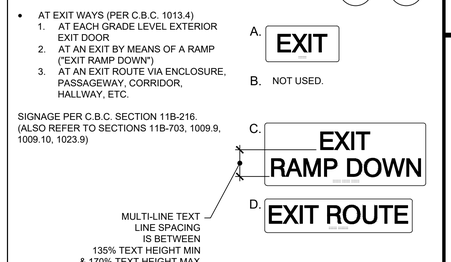
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT TEXT, BRAILLE OR THE USE OF A PICTOGRAM PER DSA BU 17-01
6. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

DOOR MOUNTED RESTROOM SYMBOLS-UNISEX — NOT TO SCALE — 8



NOTES:
1. PROVIDE MECHANICAL MOUNTING w/VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. SYMBOL PER C.B.C. SECTION 11B-703.7.2.1
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

INT'L SYMBOL OF ACCESSIBILITY — NOT TO SCALE — 9



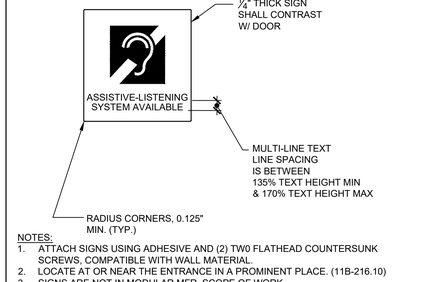
NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE AND NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
5. SIGN TO BE PLACED PER DETAIL 4/-

TACTILE SIGNAGE REQUIREMENTS — NOT TO SCALE — 10

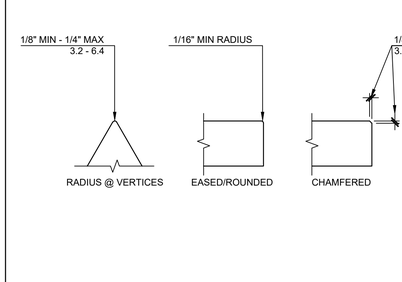
- A. TYPESTYLE: 1" HIGH BLOCK 1/16" THICK ENGRAVED PLASTIC.
- B. MOUNTING: (4) #8x1" SCREWS OR SELF-ADHESIVE. HEIGHT AS SHOWN.
- C. CAPACITY POSTING PER C.B.C. SECTION 1004.3 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".
- D. THE SIGN SHALL BE WORDED AS FOLLOWS, WITH THE APPROPRIATE CAPACITY NUMBER LISTED:

NOTES:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
2. 11B-216.3 SIGNS THAT PROVIDE INFORMATION ABOUT INTERIOR SPACES SHALL COMPLY WITH SECTION 11B-703.5

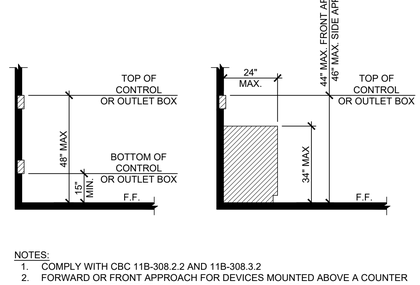
OCCUPANT LOAD SIGN — NOT TO SCALE — 11



THRESHOLD @ EXTERIOR DOOR — NOT TO SCALE — 12



SIDE REACH AT BASE CABINET — NOT TO SCALE — 13



FLOORING TRANSITION DETAIL — NOT TO SCALE — 14

ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED AT THE FOLLOWING: (PER CBC 1009.10)

- AT EXIT WAYS (PER C.B.C. 1013.4)
  1. AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
  2. AT AN EXIT BY MEANS OF A RAMP ("EXIT RAMP DOWN")
  3. AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.

SIGNAGE PER C.B.C. SECTION 11B-216. (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

SIGN REQUIREMENTS PER DETAIL 10/- & 16/-

NOTE:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

EGRESS SIGNAGE — NOT TO SCALE — 15

NOTE:

18" MIN CLEAR FLOOR SPACE SHALL BE CENTERED ON THE TACTILE CHARACTERS OF THE SIGN PER 11B-703.4.4.2

TYPICAL CLASSROOM SIGNAGE LOCATION — NOT TO SCALE — 16

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE. (11B-216.10)
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. SYMBOL PER CBC SECTION 11B-703.7.2.4
5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND TABLE 11B-703.5.5.
6. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

ASSISTIVE LISTENING SIGN — NOT TO SCALE — 17

NOTES:
1. FIGURE PER 11B-703.7.2.6.4

EDGES AND VERTICES ON GEOMETRIC SYMBOLS — NOT TO SCALE — 18

NOTES:
1. COMPLY WITH CBC 11B-308.2.2 AND 11B-308.3.2
2. FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE A COUNTER ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30" MINIMUM WIDTH x 27" MINIMUM HEIGHT x A CLEAR DEPTH EQUAL TO THE DEPTH OF THE COUNTER NOT TO EXCEED 24".

DEVICE MOUNTING OVER OBSTRUCTIONS DETAIL — NOT TO SCALE — 19

NOT USED — 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK CURRY — No. C12631 — Ren. 8-31-25 — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

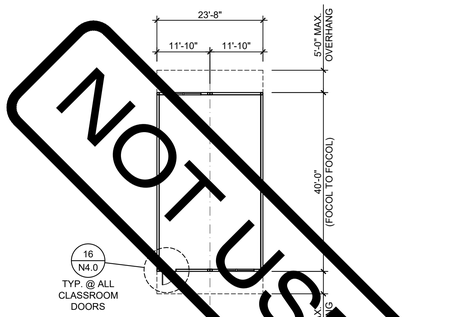
REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:
ACCESSIBILITY STANDARDS AND DETAILS

SHEET NUMBER:
N4.0

G:\XXXXX_SHEARWATER\SHEARWATER-SUBMITTED\SHEARWATER-PC.RVT 10/26/2023 8:59:19 AM C:\Users\AA\Documents\2GO\SHEARWATER-PC_AA.RVT

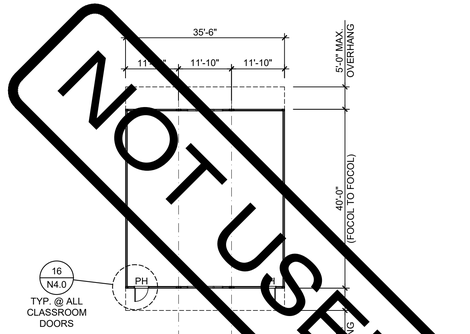


NOT USED

BUILDING DATA						
BUILDING OCCUAPANCY	BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (150 FOR B, 20 FOR E)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
E	24' x 40'	23'-8"	947	9500	5	9.4
B	24' x 40'	23'-8"	947	9000	6	1.2

THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2.
MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.

24' x 40' BUILDING FLOOR PLAN — SCALE: 1/16" = 1'-0" — 1



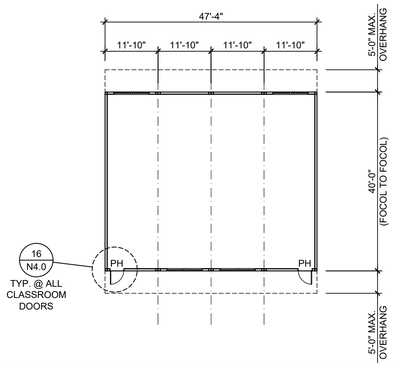
NOT USED

BUILDING DATA						
BUILDING OCCUAPANCY	BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (150 FOR B, 20 FOR E)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
E	36' x 40'	35'-6"	1420	9500	71	14.2
B	36' x 40'	35'-6"	1420	9000	9	1.9

THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2.
MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.

PH = PANIC HARDWARE

36' x 40' BUILDING FLOOR PLAN — SCALE: 1/16" = 1'-0" — 2



BUILDING DATA						
BUILDING OCCUAPANCY	BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (150 FOR B, 20 FOR E)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
~~E~~	~~48' x 40'~~	~~47'-4"~~	~~1893~~	~~9500~~	~~95~~	~~19.0~~
B	48' x 40'	47'-4"	1893	[9000]	13	2.6

THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2.
MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.

PH = PANIC HARDWARE

48' x 40' BUILDING FLOOR PLAN — SCALE: 1/16" = 1'-0" — 3

NOT USED — 4

NOT USED — 5

NOT USED — 6

1. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, PER CBC 1010.2.9.
2. THE BUILDING SIZES AND SQUARE FOOTAGES REFLECTED ON THIS SHEET ARE SUBJECT TO SQUARE FOOTAGE INCREASE AS PERMITTED BY SITE CONDITIONS, PER CBC 506.2, AND BY AUTOMATIC SPRINKLER SYSTEM, PER CBC 506.3.
3. RESTROOM CONFIGURATIONS OCCUR AT OUTER WINGS OF BUILDINGS.
4. SEE FOUNDATION DRAWINGS FOR TRUE DIMENSIONS AT FLOOR PLACEMENT AND OVERALL FOUNDATION SIZE.
5. FOR ROOM ID SIGNAGE (N.I.C.) SEE DETAILS ON SHEET N4.0. TYPICAL FOR ALL BUILDING CONFIGURATIONS.
6. MINIMUM EGRESS WIDTH REQUIRED SHALL BE 34" PER CLASSROOM OR DIMENSION SPECIFIED IN BUILDING DATA, WHICHEVER IS GREATER.
7. BUILDING DATA REPORTED ON THIS SHEET IS INTENDED FOR OCCUPANT LOAD AND EGRESS. TOTAL BUILDING SQUARE FOOTAGE WHICH INCLUDES AREA FROM SITE SPECIFIC OVERHANGS OR PROJECTIONS IN NOT INCLUDED.
8. THE CONFIGURATIONS SHOWN ARE NOT OVERALL BUILDING FOOTPRINTS. INTERIOR WALLS/PARTITIONS (IF APPLICABLE) ARE NOT SHOWN FOR CLARITY.
9. EXIT AND EXIT ACCESS DOORS FROM ROOMS HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS A PANIC OR FIRE EXIT HARDWARE PER CBC 1010.2.9

SITE NOTE:

$\frac{3}{16}$:12 (1%) MINIMUM TO $\frac{1}{4}$:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — BENJAMIN PATRICK CAMPBELL — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

MULTIPLE FLOOR PLAN CONFIGURATIONS

SHEET NUMBER:

N5.0

G:\XXXX - 2nd-gen\Edition\Active\Multi\Multi 2022\2022 new file\2022 Multi 24x40 thru 48x40 HS.rvt

CZ Group	Climate Zone	Reference City	Roof Rigid R-value[1]	Ground Floor R-value[2]	Wood Framed Wall R-value[3]	Window U-factor[4]	Window SHGC[4]	Cool Roof (Y/N)	CO Sensor (Y/N)	FC-1 Unit Type[5]	Number of FC-1 Units[6]	OSA per FC-1 (cfm)[7]	FC-2 Unit Type[5]	Number of FC-2 Units[6]	OSA per FC-2 (cfm)[7]	Design PV (kW DC)[8]
			AMS 24x40													
A	CZ01	Arcata	R-15 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	1	364.8	na	0	na	0.0
	CZ16	Blue Canyon														
B	CZ02	Santa Rosa	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	1	364.8	na	0	na	0.0
	CZ03	Oakland														
	CZ04	San Jose-Reid														
	CZ05	Santa Maria														
C	CZ06	Torrance	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	1	364.8	na	0	na	0.0
	CZ07	San Diego-Lindbergh														
	CZ08	Fullerton														
	CZ09	Burbank-Glendale														
	CZ10	Riverside														
	CZ11	Red Bluff														
	CZ12	Sacramento														
	CZ13	Fresno														
D	CZ14	Palmdale	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W48HC	1	364.8	na	0	na	0.0
	CZ15	Palm Spring-Intl														

CZ Group	Climate Zone	Reference City	Roof Insulation Rigid R-value[1]	Ground Floor R-value[2]	Wood Framed Wall R-value[3]	Window U-factor[4]	Window SHGC[4]	Cool Roof (Y/N)	CO Sensor (Y/N)	FC-1 Unit Type[5]	Number of FC-1 Units[6]	OSA per FC-1 (cfm)[7]	FC-2 Unit Type[5]	Number of FC-2 Units[6]	OSA per FC-2 (cfm)[7]	Design PV (kW DC)[8]
			AMS 30x40													
A	CZ01	Arcata	R-15 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	1	547.2	na	0	na	0.0
	CZ16	Blue Canyon														
B	CZ02	Santa Rosa	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	1	547.2	na	0	na	0.0
	CZ03	Oakland														
	CZ04	San Jose-Reid														
	CZ05	Santa Maria														
C	CZ06	Torrance	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	Y	SysAir 4T	1	547.2	na	0	na	0.0
	CZ07	San Diego-Lindbergh														
	CZ08	Fullerton														
	CZ09	Burbank-Glendale														
	CZ10	Riverside														
	CZ11	Red Bluff														
	CZ12	Sacramento														
	CZ13	Fresno														
D	CZ14	Palmdale	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	SysAir 5T	1	547.2	na	0	na	0.0
	CZ15	Palm Spring-Intl														

CZ Group	Climate Zone	Reference City	Roof Insulation Rigid R-value[1]	Ground Floor R-value[2]	Wood Framed Wall R-value[3]	Window U-factor[4]	Window SHGC[4]	Cool Roof (Y/N)	CO Sensor (Y/N)	FC-1 Unit Type[5]	Number of FC-1 Units[6]	OSA per FC-1 (cfm)[7]	FC-2 Unit Type[5]	Number of FC-2 Units[6]	OSA per FC-2 (cfm)[7]	Design PV (kW DC)
			AMS 48x40													
A	CZ01	Arcata	R-15 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	2	364.8	na	0	na	0.0
	CZ16	Blue Canyon														
B	CZ02	Santa Rosa	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	2	364.8	na	0	na	0.0
	CZ03	Oakland														
	CZ04	San Jose-Reid														
	CZ05	Santa Maria														
C	CZ06	Torrance	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W42HC	2	364.8	na	0	na	0.0
	CZ07	San Diego-Lindbergh														
	CZ08	Fullerton														
	CZ09	Burbank-Glendale														
	CZ10	Riverside														
	CZ11	Red Bluff														
	CZ12	Sacramento														
	CZ13	Fresno														
D	CZ14	Palmdale	R-5 ci	R-19 Batt	R-13 Batt	0.42	0.25	N	N	W48HC	2	364.8	na	0	na	2.0
	CZ15	Palm Spring-Intl														

		HVAC Specification Table				
Bard W18H-W60H	Capacity	Cooling	Heating	Supply Fan	Supply Fan	Supply Fan	Cooling Efficiency	Heating Efficiency
Series Wall-Mount	(Ton)	(Btu/h)	(Btu/h)	CV/VFD	(CFM)	(HP)	(EER)	(COP)
W42HC	3.5	42,000	39,000	CV	1,350	0.50	11.0	3.3
W48HC	4.0	47,500	42,500	CV	1,550	0.75	11	3.3
W60HC	4.5	54,500	52,500	CV	1,750	0.75	11.0	3.3
Systemair Sophomore								
SysAir 3T	3.0	35,600	32,400	VFD	1,100	0.50	11.1	3.41
SysAir 4T	4.0	47,500	44,800	VFD	1,600	0.75	11.0	3.54
SysAir 5T	5.0	57,100	56,200	VFD	1,800	0.75	11.0	3.39

Notes	
	Indicates deviation from predominant design
	Indicates Systemair Sophomore HVAC unit
1	Rigid insulation R-value added above the R-19 Roof Structure per detail
2	Rigid insulation R-value added to the exterior R-13 Metal Stud walls, per detail
3	Rigid insulation R-value below the ground floor slab
4	NFRC Tested Window U-factor and SHGC
5	HVAC Unit Specification
6	Total number of specified HVAC units in PC
7	Design Ouside Air (OSA / cfm) per HVAC unit per Section H3. or the Title 24 reports

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

Project Name:	AMS PCs	Report Page:	(Page 1 of 5)
Project Address:		Date Prepared:	2023-10-10T11:43:11-04:00

A. GENERAL INFORMATION					
01	Project Location (city)	Palm Spring-Intl	04	Building Occupancies	School or Classroom
02	Climate Zone	15	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	0	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE
The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in 110.10(b)1B	
01	
☐	Provide Solar Ready Area no exceptions — The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☒	Exception to Solar Ready Area: Installed Solar Photovoltaic System — The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
☐	Exception to Solar Ready Area: Installed Solar Water Heating System — The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure — The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.
☐	Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport — Plan sheet showing roof designed for vehicular traffic, parking or heliport
☐	Exception to Solar Ready Area: Roof too small — The project is new construction and has a total roof area <= 533 square feet[1]
☐	Exception to Solar Ready Area: Number of building stories — The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

[1]FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: AMS PCs	Report Page: (Page 2 of 5)
	Date Prepared: 2023-10-10T11:43:11-04:00

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)	
01	
☐	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h) — The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area — The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW — The required PV system size is less than 4 kW dc as documented in Table J.
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area — The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load — The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar — The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☒	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)	
01	
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: AMS PCs	Report Page: (Page 3 of 5)
	Date Prepared: 2023-10-10T11:43:11-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Allocated Solar Zone			Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02	03		04		05		06		07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
	<=		OR	9,600	<=	36,000	OR		<=		OR			
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).														
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

(General Remarks) PV specifications (kW DC, Inverter Efficiency, Tilt & Orientation) for each PC size in each Climate Zone are included in the Performance Approach Title 24 reports included in the plan set. Battery is not required (traded off using the Performance Approach).

F. ALLOCATED SOLAR ZONE

This section does not apply to this project.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: AMS PCs	Report Page: (Page 4 of 5)
	Date Prepared: 2023-10-10T11:43:11-04:00

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This table is completed if the project is installing a PV system to comply with §110.10(b)1B Exception 1.

01	02	03	04	05	
Total Roof Area[1] (ft²)	Required Minimum DC Power Rating (Watts)	Designed System DC Power Rating (Watts)	Location in Construction Documents showing PV System/ Components	Field Inspector	
				Pass	Fail
9,600	9,600	36,000		☐	☐

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInO. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: AMS PCs	Report Page: (Page 5 of 5)
Project Address:	Date Prepared: 2023-10-10T11:43:11-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Hans Marsman	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT	

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature: Randall Murray
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

PC DESIGN REVIEW INFORMATION
Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 24x40 — Calculation Date/Time of Energy Report: 8/25/2023
Total Floor Area: 960 — DSA Application:
HVAC System Type: VSHP

CZ Group	Climate Zone 16 Blue Canyon	Metric	Standard Design	Proposed Design	Margin	Worst Case
A	30°	TDV-E	271.5	233.2	38.4	
		TDV-T	271.5	233.2	38.4	
		SOURCE	41.1	23.9	17.2	
	75°	TDV-E	279.9	233.8	46.1	
		TDV-T	279.9	233.8	46.1	
		SOURCE	41.6	23.9	17.7	
	120°	TDV-E	275.0	233.8	41.2	
		TDV-T	275.0	233.8	41.2	
		SOURCE	41.3	24.0	17.4	
	165°	TDV-E	256.2	232.5	23.8	Worst Case
		TDV-T	256.2	232.5	23.8	Worst Case
		SOURCE	40.2	23.9	16.3	Worst Case
	210°	TDV-E	264.4	233.3	31.1	
		TDV-T	264.4	233.3	31.1	
		SOURCE	40.8	23.9	16.9	
	255°	TDV-E	271.9	233.3	38.7	
		TDV-T	271.9	233.3	38.7	
		SOURCE	41.1	23.9	17.2	
	300°	TDV-E	267.9	233.0	34.8	
		TDV-T	267.9	233.0	34.8	
		SOURCE	40.8	23.9	16.9	
	345°	TDV-E	260.3	231.9	28.4	
		TDV-T	260.3	231.9	28.4	
		SOURCE	40.3	23.8	16.5	
B	Climate Zone 05 Santa Maria	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
	30°	TDV-E	200.1	140.3	59.7	
		TDV-T	200.1	140.3	59.7	
		SOURCE	19.7	15.3	4.4	
	75°	TDV-E	201.9	139.7	62.2	
		TDV-T	201.9	139.7	62.2	
		SOURCE	19.8	15.2	4.6	
	120°	TDV-E	188.8	139.0	49.7	
		TDV-T	188.8	139.0	49.7	
		SOURCE	18.7	15.2	3.5	
	165°	TDV-E	185.0	138.9	46.1	Worst Case
		TDV-T	185.0	138.9	46.1	Worst Case
		SOURCE	18.4	15.2	3.2	
	210°	TDV-E	193.6	139.8	53.8	
		TDV-T	193.6	139.8	53.8	
		SOURCE	19.1	15.3	3.9	
	255°	TDV-E	195.2	138.7	56.6	
		TDV-T	195.2	138.7	56.6	
		SOURCE	19.0	15.1	4.1	
	300°	TDV-E	184.6	138.3	46.4	
		TDV-T	184.6	138.3	46.4	
		SOURCE	18.3	15.1	3.2	Worst Case
	345°	TDV-E	189.5	138.8	50.6	
		TDV-T	189.5	138.8	50.6	
		SOURCE	18.7	15.2	3.6	
C	Climate Zone 13 Fresno	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
	30°	TDV-E	288.7	218.2	70.5	
		TDV-T	288.7	218.2	70.5	
		SOURCE	24.6	18.0	6.6	
	75°	TDV-E	299.8	221.0	78.8	
		TDV-T	299.8	221.0	78.8	
		SOURCE	25.4	18.0	7.4	
	120°	TDV-E	296.0	220.6	75.4	
		TDV-T	296.0	220.6	75.4	
		SOURCE	25.1	18.0	7.1	
	165°	TDV-E	269.9	216.1	53.8	Worst Case
		TDV-T	269.9	216.1	53.8	Worst Case
		SOURCE	23.0	17.8	5.1	Worst Case
	210°	TDV-E	283.0	217.6	65.4	
		TDV-T	283.0	217.6	65.4	
		SOURCE	24.1	18.0	6.2	
	255°	TDV-E	292.3	219.7	72.5	
		TDV-T	292.3	219.7	72.5	
		SOURCE	24.8	18.0	6.8	
	300°	TDV-E	289.5	219.3	70.2	
		TDV-T	289.5	219.3	70.2	
		SOURCE	24.5	17.9	6.6	
	345°	TDV-E	271.8	215.7	56.1	
		TDV-T	271.8	215.7	56.1	
		SOURCE	23.0	17.8	5.3	
D	Climate Zone 15 Palm Spring-Intl	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
	30°	TDV-E	304.5	291.6	12.9	
		TDV-T	304.5	291.6	12.9	
		SOURCE	23.5	21.3	2.2	
	75°	TDV-E	317.8	293.7	24.1	
		TDV-T	317.8	293.7	24.1	
		SOURCE	24.5	21.3	3.2	
	120°	TDV-E	315.5	292.7	22.9	
		TDV-T	315.5	292.7	22.9	
		SOURCE	24.4	21.3	3.1	
	165°	TDV-E	294.5	288.7	5.8	
		TDV-T	294.5	288.7	5.8	
		SOURCE	22.7	21.1	1.6	
	210°	TDV-E	298.8	290.7	8.2	
		TDV-T	298.8	290.7	8.2	
		SOURCE	23.1	21.3	1.8	
	255°	TDV-E	310.6	292.7	17.9	
		TDV-T	310.6	292.7	17.9	
		SOURCE	24.0	21.3	2.7	
	300°	TDV-E	309.4	292.4	17.0	
		TDV-T	309.4	292.4	17.0	
		SOURCE	23.8	21.2	2.6	
	345°	TDV-E	292.1	289.2	2.9	Worst Case
		TDV-T	292.1	289.2	2.9	Worst Case
		SOURCE	22.5	21.1	1.4	Worst Case

PC DESIGN REVIEW INFORMATION
Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 30x40 — Calculation Date/Time of Energy Report: 8/25/2023
Total Floor Area: 1440 — DSA Application:
HVAC System Type: VSHP

CZ Group	Climate Zone 16 Blue Canyon	Metric	Standard Design	Proposed Design	Margin	Worst Case
A	30°	TDV-E	279.4	246.7	32.7	
		TDV-T	279.4	246.7	32.7	
		SOURCE	36.4	23.6	12.8	
	75°	TDV-E	291.1	247.1	44.0	
		TDV-T	291.1	247.1	44.0	
		SOURCE	36.7	23.6	13.1	
	120°	TDV-E	278.0	246.9	31.1	
		TDV-T	278.0	246.9	31.1	
		SOURCE	35.9	23.6	12.3	
	165°	TDV-E	269.3	244.9	24.4	
		TDV-T	269.3	244.9	24.4	
		SOURCE	35.5	23.5	12.0	
	210°	TDV-E	278.3	245.5	32.8	
		TDV-T	278.3	245.5	32.8	
		SOURCE	36.1	23.5	12.6	
	255°	TDV-E	279.5	246.9	32.6	
		TDV-T	279.5	246.9	32.6	
		SOURCE	36.0	23.6	12.4	
	300°	TDV-E	275.1	247.9	27.2	
		TDV-T	275.1	247.9	27.2	
		SOURCE	35.9	23.7	12.1	
	345°	TDV-E	261.8	246.5	15.3	Worst Case
		TDV-T	261.8	246.5	15.3	Worst Case
		SOURCE	35.5	23.6	11.9	Worst Case
B	Climate Zone 05 Santa Maria	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
	30°	TDV-E	189.1	121.7	67.3	
		TDV-T	189.1	121.7	67.3	
		SOURCE	17.8	12.6	5.2	
	75°	TDV-E	189.2	120.8	68.4	
		TDV-T	189.2	120.8	68.4	
		SOURCE	17.8	12.5	5.3	
	120°	TDV-E	181.1	120.7	60.4	Worst Case
		TDV-T	181.1	120.7	60.4	Worst Case
		SOURCE	17.0	12.5	4.5	Worst Case
	165°	TDV-E	188.8	121.2	67.6	
		TDV-T	188.8	121.2	67.6	
		SOURCE	17.8	12.6	5.2	
	210°	TDV-E	197.2	122.6	74.6	
		TDV-T	197.2	122.6	74.6	
		SOURCE	18.4	12.6	5.8	
	255°	TDV-E	192.9	121.8	71.1	
		TDV-T	192.9	121.8	71.1	
		SOURCE	18.1	12.5	5.5	
	300°	TDV-E	182.5	120.0	62.5	
		TDV-T	182.5	120.0	62.5	
		SOURCE	17.4	12.6	4.7	
	345°	TDV-E	181.3	120.0	61.9	
		TDV-T	181.3	120.0	61.9	
		SOURCE	17.4	12.6	4.7	
C	Climate Zone 13 Fresno	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
	30°	TDV-E	208.0	188.8	19.2	
		TDV-T	208.0	188.8	19.2	
		SOURCE	15.1	13.7	1.4	
	75°	TDV-E	204.9	191.8	13.1	
		TDV-T	204.9	191.8	13.1	
		SOURCE	15.2	13.7	1.5	
	120°	TDV-E	212.4	190.8	21.8	
		TDV-T	212.4	190.8	21.8	
		SOURCE	15.1	13.7	1.4	
	165°	TDV-E	286.8	186.6	100.2	
		TDV-T	286.8	186.6	100.2	
		SOURCE	22.7	13.5	9.3	
	210°	TDV-E	211.9	190.7	21.1	
		TDV-T	211.9	190.7	21.1	
		SOURCE	15.3	13.8	1.6	
	255°	TDV-E	207.4	195.3	12.2	Worst Case
		TDV-T	207.4	195.3	12.2	Worst Case
		SOURCE	15.4	13.9	1.6	
	300°	TDV-E	214.5	193.2	21.3	
		TDV-T	214.5	193.2	21.3	
		SOURCE	15.2	13.8	1.4	
	345°	TDV-E	204.4	186.8	17.6	
		TDV-T	204.4	186.8	17.6	
		SOURCE	14.7	13.5	1.2	Worst Case
D	Climate Zone 15 Palm Spring-Intl	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
	30°	TDV-E	326.4	226.5	99.9	
		TDV-T	326.4	226.5	99.9	
		SOURCE	23.4	13.9	9.5	
	75°	TDV-E	339.2	229.2	110.0	
		TDV-T	339.2	229.2	110.0	
		SOURCE	24.4	13.9	10.5	
	120°	TDV-E	330.4	228.2	102.3	
		TDV-T	330.4	228.2	102.3	
		SOURCE	23.6	13.8	9.8	
	165°	TDV-E	237.3	224.9	12.4	
		TDV-T	237.3	224.9	12.4	
		SOURCE	14.5	13.6	0.8	
	210°	TDV-E	252.3	228.9	23.4	
		TDV-T	252.3	228.9	23.4	
		SOURCE	15.7	14.1	1.7	
	255°	TDV-E	264.4	232.5	31.9	
		TDV-T	264.4	232.5	31.9	
		SOURCE	16.4	14.1	2.2	
	300°	TDV-E	254.2	229.5	24.7	
		TDV-T	254.2	229.5	24.7	
		SOURCE	15.8	13.9	1.9	
	345°	TDV-E	235.8	224.1	11.7	Worst Case
		TDV-T	235.8	224.1	11.7	Worst Case
		SOURCE	14.3	13.6	0.7	Worst Case

PC DESIGN REVIEW INFORMATION
Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 48x40 — Calculation Date/Time of Energy Report: 8/25/2023
Total Floor Area: 1920 — DSA Application:
HVAC System Type: VSHP

CZ Group	Climate Zone 16 Blue Canyon	Metric	Standard Design	Proposed Design	Margin	Worst Case
A	30°	TDV-E	267.2	236.6	30.6	
		TDV-T	267.2	236.6	30.6	
		SOURCE	34.0	22.9	11.2	
	75°	TDV-E	277.2	238.1	39.1	
		TDV-T	277.2	238.1	39.1	
		SOURCE	34.5	23.0	11.5	
	120°	TDV-E	268.7	238.4	30.3	
		TDV-T	268.7	238.4	30.3	
		SOURCE	34.1	23.1	11.0	
	165°	TDV-E	254.1	236.5	17.6	Worst Case
		TDV-T	254.1	236.5	17.6	Worst Case
		SOURCE	33.5	23.0	10.5	Worst Case
	210°	TDV-E	271.8	236.9	34.9	
		TDV-T	271.8	236.9	34.9	
		SOURCE	34.3	23.0	11.4	
	255°	TDV-E	283.5	237.9	45.6	
		TDV-T	283.5	237.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 18)

Project Name: AMS 48x40 **Date Prepared:** 2023-08-25

A. General Information

1	Project Name	AMS 48x40			
2	Run Title	Title 24 Analysis			
3	Project Location				
4	City	Fresno	5	Standards Version	Compliance 2022
6	Zip code	93703	7	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	13	9	Building Orientation (deg)	345
10	Building Type(s)	• Nonresidential	11	Weather File	FRESNO-YOSEMITE_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	1920	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	None
18	Nonresidential Conditioned Floor Area	1920	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 2 of 18)

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐ Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒ Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐ Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒ Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐ Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒ Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance	Commissioning §20.8	NRCC-CXR-E is required
				☒ Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 3 of 18)

C1. COMPLIANCE SUMMARY

COMPLIES[1]

	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	279.99	279.99	21.98
Proposed Design	224.6	224.6	21.98
Compliance Margins	**55.39**	**55.39**	**4.89**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 4 of 18)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	17.68	49.54	-31.86
Space Cooling	98.89	126.81	-27.92
Indoor Fans	139.4	37.09	102.31
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	24.02	11.16	12.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**279.99**	**224.6**	**55.39 (19.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**279.99**	**224.6**	**55.39 (19.8%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 5 of 18)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	65.89	65.89	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**345.88**	**290.49**	**55.39 (16%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 6 of 18)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	2.44	7.02	-4.58
Space Cooling	4.25	5.24	-0.99
Indoor Fans	13.08	3.62	9.46
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.21	1.21	1
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**21.98**	**17.09**	**4.89 (22.2%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**21.98**	**17.09**	**4.89 (22.2%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 7 of 18)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.93	4.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**26.91**	**22.02**	**4.89 (18.2%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 8 of 18)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	1.1	3.1	-2	---	---	---
Space Cooling	5	6.1	-1.1	---	---	---
Indoor Fans	9.3	2.5	6.8	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	1.7	0.7	1	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**17.1**	**12.4**	**4.7**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**17.1**	**12.4**	**4.7**	**0**	**0**	**0**
Receptacle	5.1	5.1	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**22.2**	**17.5**	**4.7**	**0**	**0**	**0**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 9 of 18)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	39.45	31.1	8.35	21.17
NET EUI[1]	39.45	31.1	8.35	21.17

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	480	160	33.33
East-Facing[2]	400	0	0
South-Facing[3]	480	160	33.33
West-Facing[4]	400	0	0
Total	**1760**	**320**	**18.18**
Roof	1920	0	0

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 10 of 18)

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	**Air Barrier**
Ground Floor	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	**Construction Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**		**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
					Interior	**Exterior**				
Ext Roof	Roof	1,920	Metal	19	N/A	5	U-factor	0.0528	Metal Standing Seam - 1/16 in. Compliance Insulation R5.00 Plywood - 1/2 in. Roof Structure Air - Roof - 3 1/2 in. Acoustic Tile - 3/8 in.	N
Ext Wall	Exterior Wall	1,760	Wood	13	N/A	N/A	U-factor	0.0939	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. 9.13 in Wood Studs Gypsum Board - 1/2 in.	N
Floor over Crawlspace	Exterior Floor	1,920	Metal	19	N/A	N/A	U-factor	0.0523	Vented Crawl Space Floor Metal Frame Plywood - 1/2 in. Carpet - 3/4 in.	N
Int Wall	Interior Wall	400	Wood	0	N/A	N/A	U-factor	0.3755	Gypsum Board - 1/2 in. Wood Stud Wall - No Insulation Gypsum Board - 1/2 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 11 of 18)

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	**Area (ft²)**	**Overall U-factor**	**Status[1]**
Door	42	0.7	N

[1] *Status: N - New, A - Altered, E - Existing*

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	**Fenestration Type/ Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area (ft²)**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Windows	Vertical fenestration Fixed window N/A	NFRC	Manufactured	320	0.42	0.25	0.44	N

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				**Cooling**				
Equipment Name	**Equipment Type**	**Qty**	**Total Heating Output (kBtu/h)**	**Supp Heat Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Economizer Type (if present)**	**Status[1]**
FC-1	Single Package VHP Air System	2	39	3.41	COP	3.3	42	EER	11	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 12 of 18)

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	**Qty**	**Design OA CFM**	**Supply Fan**				**Return / Relief Fan**					**Status[1]**
			CFM	**Power**	**Power Units**	**Control**	**Fan Type**	**CFM**	**Power**	**Power Units**	**Control**	
FC-1	2	364.8	1,350	0.73	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	**Equipment Type**	**Interlocks per 140.4(n)[1]**	**Other Special Features and Controls**
FC-1	Single Package VHP Air System	No	

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	**Mechanical Ventilation**				**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of People**	**Supply OA CFM**	**Exhaust CFM**		
Zn L01 Classroom	Education - Classrooms (ages 9-18)	48	729.6	0	1920	N/A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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SITE SPECIFIC PROJECT NAME

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2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
BRYAN PATRICK CLANCY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS
48x40 BUILDING
GROUP 'C'

SHEET NUMBER:

EN.22

Plotted: 25 AUG 2023 15:38:02 | By: AA | File: N:\Projects\2023\23-XXXX - 2x4x40 GROUP C\Drawings\Working\EN.22 - Energy Calculations.dwg | Xref: ...

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
FC-1_TRM	Uncontrolled	2	N/A	N/A	1,350	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	1920	720	0	0	0
Building Totals:	1920	720	0	0	0

[1]*See Table 140.6-C*
[2]*See NRCC-LTI-E for unconditioned spaces*
[3]*Lighting information for existing spaces modeled is not included in this table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
2x4 LED	2x4 - LED	45	According to	16	720

[1]*If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
L01 ClassRM 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	4	180	0
L01 ClassRM 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	4	180	0
L01 ClassRM 102	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	4	180	0
L01 ClassRM 102	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	4	180	0
						Lighting Control Credits (Conditioned) Total (Watts)		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
NA	Required

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

03	04	05	06	07	08	09
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D
Classrooms Skylit Zn	Classroom, Lecture, or Training Vocational	Required	NA	Required	Required	Required

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)
Indoor Lighting	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Form/Title
There are no Certificates of Verification applicable to this project

Documentation Author's Declaration Statement

I. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/HERS Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.08.25 15:07:47 -08'00'

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems	Gen7 Schools	
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Architect	Scope:
Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems	Gen7 Schools	
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Architect	Scope:

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems	Gen7 Schools	
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Architect	Scope:

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787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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(HIGH SEISMIC)

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SITE SPECIFIC PROJECT NAME

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DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANNAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS
48x40 BUILDING
GROUP 'C'

SHEET NUMBER:

EN.23

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 1 of 7)**
Project Address:		**Date Prepared:**	2023-03-06T11:31:51-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	14	05	Total Unconditioned Floor Area (ft²)	480
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(a) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	N/A	0	Area Category Method	480
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			480	

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101
Documentation Software: Energy Code Ace Compliance ID: 92993-0323-0004 Report Generated: 2023-03-06 08:31:53

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 2 of 7)**
		Date Prepared:	2023-03-06T11:31:51-05:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(c) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)3D / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)3 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table F)			
Conditioned					=	≥			=		
Unconditioned		280			=	280	≥ 240		=	240	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 3 of 7)**
		Date Prepared:	2023-03-06T11:31:51-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
2x4 LED	2x4 LED	No	NA	50	Mfr. Spec	2	No	100	☐	☐
2x2 LED	2x2 LED	No	NA	30	Mfr. Spec	2	No	60	☐	☐
40W Incandescent	40W Incandescent	No	NA	40	Mfr. Spec	2	No	80	☐	☐
					Total Designed Watts: UNCONDITIONED SPACES			240		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 4 of 7)**
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
Restrooms	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Plumb Chase	Electrical Mechancial Telephone Room	Readily Accessible	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(e) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Restrooms	Restroom	0.65	360	234	No	No
Plumb Chase	Electrical Mechancial Telephone Room	0.4	115	46	No	No
		TOTALS:	475	280	See Tables *L* or *P* for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 5 of 7)**
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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 6 of 7)**
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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Restrooms

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	AMS PC 12x40 UC Ltg	**Report Page:**	**(Page 7 of 7)**
Project Address:		**Date Prepared:**	2023-03-06T11:31:51-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:		Documentation Author Signature:	
Hans Marsman			
Company:	Marsman Consulting	Signature Date:	
Address:	1150 J Street #409	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Diego, CA 92101	Phone:	(619) 573-6374

Digitally signed by Hans Marsman CEA/HERS ID: 20-HERS-00076 Date: 2023.03.06 09:33:45-08'00'

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Randall P Cavannagh	Responsible Designer Signature:	
Company:	American Modular Systems	Date Signed:	03/04/2023
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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Documentation Software: Energy Code Ace Compliance ID: 92993-0323-0004 Report Generated: 2023-03-06 08:31:53

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2I for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:	AMS PCs Ext Ltg - T24-22	**Report Page:**	**(Page 1 of 7)**
Project Address:		**Date Prepared:**	2023-03-06T10:40:21-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	14			
03	Outdoor Lighting Zone per Title 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				

● Classroom

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:					
01		02			
☒	New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6			
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?		Yes	No
03		04		05	
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered		Calculation Method	
☐ < 10%	☐ >= 10% and < 50% ☐ >= 50%				

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	AMS PCs Ext Ltg - T24-22	**Report Page:**	**(Page 2 of 7)**
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table O. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6i or 141.0(b)2L / 180.2(b)4Bv													Compliance Results
01		02		03		04		05		06		07	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6i (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6i (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6i (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6i (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
0	+	17	+	---	+	---	+	---	OR	---	=	17	≥	17	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	AMS PCs Ext Ltg - T24-22	**Report Page:**	**(Page 3 of 7)**
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
										Field Inspector	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Pass	Fail
Ext Ltg Fixture @ Door	Lihtonia ARC LED	☐ Linear	17	Mfr. Spec	1	New	☐	17	NA: < 6200 lumens	☐	☐
							Total Design Watts:	17			

* NOTES: Selections with a ***** require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1]FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

[2] For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas In Multifamily Buildings

01	02	03	04	05	
				Field Inspector	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Pass	Fail
Entry Door(s): "Ext Ltg Fixture @ Door"	Astronomical Timer	Provided	Provided	☐	☐

[1]FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

[2]Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

[3]Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from I and iii.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-B while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☐ General Hardscape Allowance Table I (below)	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
			CALCULATED ALLOWANCE (Watts)			DESIGN WATTS			
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Door(s)	Building Entrance/Exit	1	19	19	Ext Ltg Fixture @ Door	17	1	17	17
							Total Design Watts for this Area:	17	
							Total Allowance (Watts) All Areas:		17

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.

[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

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G:\XXXX_ 2nnd-ght-f1bf0c0e-28c-4b2c-b2c7-b5f2c2d2b3 a.ksk 2ky7ZSSTF3 3V3NBSEBUMK rdk 3hqDwmwpMy3KYUHSdHWdQ0 2bcbbd0c0 2bcbbd0c0 2bcbbd0c

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS PCs Ext Ltg - T24-22	Report Page: (Page 6 of 7)
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O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Entry Door(s) "Ext Ltg Fixture @ Door"

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS PCs Ext Ltg - T24-22	Report Page: (Page 7 of 7)
		Date Prepared: 2023-03-06T10:40:21-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:		Documentation Author Signature:	
Hans Marsman			Digitally signed by Hans Marsman, LEED AP, CEA Date: 2023.03.06 09:51:30-08'00'
Company:	Marsman Consulting	Signature Date:	
Address:	1150 J Street #409	CEA/ HERS Certification Identification (If applicable):	
City/State/Zip:	San Diego, CA 92101	Phone:	(619) 573-6374

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:		Responsible Designer Signature:	
	Randall P Cavanaugh		
Company:	American Modular Systems | Gen7 Schools	Date Signed:	03/04/2023
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS PCs Water Heating - T24-22	Report Page: (Page 1 of 6)
Project Address:		Date Prepared: 2023-03-06T10:41:54-05:00

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	02	Climate Zone	14
03	Occupancy Types Within Project (select all that apply):				

• Classroom

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.7/ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03	
My project consists of (check all that apply):	System Type[1,2]	System Components	
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution ☐ Controls

[1] FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedittable comments because of selections made or data entered in tables throughout the form.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS PCs Water Heating - T24-22	Report Page: (Page 2 of 6)
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E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04		05		06		
System Name	EWH-1	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[2]	Capacity-weighted Average Efficiency %	
07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
EWH-1	Commercial Electric Storage Water Heater	20	6,824					1.25	1.65

[2] FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6.
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS PCs Water Heating - T24-22	Report Page: (Page 3 of 6)
		Date Prepared: 2023-03-06T10:41:54-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies		
13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☐	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS PCs Water Heating - T24-22	Report Page: (Page 4 of 6)
		Date Prepared: 2023-03-06T10:41:54-05:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions. Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity [d.gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS PCs Water Heating - T24-22	Report Page: (Page 5 of 6)
		Date Prepared: 2023-03-06T10:41:54-05:00

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS PCs Water Heating - T24-22	Report Page: (Page 6 of 6)
Project Address:		Date Prepared: 2023-03-06T10:41:54-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:		Documentation Author Signature:	
Hans Marsman			Digitally signed by Hans Marsman, LEED AP, CEA Date: 2023.03.06 09:51:30-08'00'
Company:	Marsman Consulting	Signature Date:	
Address:	1150 J Street #409	CEA/ HERS Certification Identification (If applicable):	
City/State/Zip:	San Diego, CA 92101	Phone:	(619) 573-6374

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:		Responsible Designer Signature:	
	Randall P Cavanaugh		
Company:	American Modular Systems | Gen7 Schools	Date Signed:	03/04/2023
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

CALIFORNIA ENERGY COMMISSION
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential and hotel/motel occupancies and §160.6 and §160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential & hotel/motel occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per §180.1(a) or §180.2(b)4Bvii.

Project Name:	PC 48'-240'x40'	Enforcement Agency:	DSA
Dwelling Address:	N/A	Permit Number:	N/A
City and Zip Code:	N/A	Permit Application Date:	

A. GENERAL INFORMATION

01	Project Location (city)			02	Climate Zone				
				03	Occupancy Types Within Project:				
☐	Office	☐	Retail	☐	Warehouse	☐	Hotel/ Motel		
☐	High-Rise Residential Multifamily/ MF Mixed-use >= 4 stories (new construction)	☐	High-Rise Residential Multifamily/ MF Mixed-use >= 4 stories (Addition or Alteration)	☐	Healthcare Facilities	☐	Parking Garage	☒	School
				☐	Relocatable	☐	All Others	☐	Theater
☐	Auditorium	☐	Commercial/ Industrial	☐	Grocery Store	☐	Religious Facility	☐	Data Center
☐	Classroom	☐	Library	☐	Gymnasium	☐	Restaurant/ Commercial Kitchen	☐	Financial Institution

☐ Support Areas
☐ Sports Arena
☐ Convention Center
☐ Medical Clinic

CALIFORNIA ENERGY COMMISSION
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-E

B. PROJECT SCOPE

This table includes electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to §130.5(a)/§160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standard based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2/§160.3, §130.1/§160.5 and §130.3/§160.5 and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents-will indicate when demand response controls are required.	Provides power to dwelling units/common living areas only in multifamily occupancy
			☐	☐		☐

[1]FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily occupancy are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

CALIFORNIA ENERGY COMMISSION
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-E

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J.

Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable Table referenced below.

01		02		03		04		05	06
Service Electrical Metering §130.5(a)/ §160.6(a)	AND	Separation for Monitoring §130.5(b)/ §160.6(b)	AND	Voltage Drop §130.5(c)/ §160.6(c)	AND	Controlled Receptacles §130.5(d)/ §160.6(d)	AND	Electric Ready §160.9	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)	
Yes/No	**AND**	Yes/No	**AND**	Yes/No	**AND**	Yes/No	**AND**	Yes/No	**COMPLIES, DOES NOT COMPLY, Or COMPLIES with Exceptional Conditions**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedittable comments because of selections made or data entered in tables throughout the form.

CALIFORNIA ENERGY COMMISSION
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-E

E. ADDITIONAL REMARKS

This table includes remarks made by the installer to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)/§160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	F. SERVICE ELECTRICAL METERING 03				04	05	
		Required Metering Capabilities per Table 130.5-A						
Electrical Service Designation/ Description	Rating[1] (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Field Inspector: Pass	Field Inspector: Fail
		☐	☐	☐	☐		☐	☐
		☐	☐	☐	☐		☐	☐

[1]FOOTNOTES: If common use areas in a multifamily occupancy are submetered, rating is for submeter size serving common use areas.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAUGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS
SUPPLEMENTAL SHEETS

SHEET NUMBER:

EN.27

02-XXXXX 2e4c4fc1f2d5fc2fc3dc3d2c2f2d2d2d1 AMS PROJECTS\2023\2023-03-AMS PROJECTS\2023-03-AMS PROJECTS\2023-03-AMS PROJECTS

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b)/§160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

Electrical Service Designation/ Description:					
01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
				☐	☐

NOTES If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.
[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually & provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c)/§160.6(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii/§180.2(b) 4Bviic.

NOTES If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

01	02		03	04	05	
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
	☐ Voltage drop ≤ 5%	☐ Permitted by CA Elec Code (Exception to §130.5(c))*			Pass	Fail
					☐	☐

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d)/§160.6(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room Name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
				☐		☐	☐

NOTES: If "Other" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements.

J. ELECTRIC READY BUILDINGS

This table includes electrical system requirements that must be met when using gas or propane heating, cooking or clothes drying in multifamily occupancies to demonstrate compliance with §160.9.

01	Systems serving multifamily occupancy that use gas or propane include:	☐ Furnaces serving individual dwelling units	☐ Cooktops serving individual dwelling units	☐ Clothes dryers serving individual dwelling units	☐ Clothes dryers in common areas	☐ None of these

Gas/ Propane Furnaces Serving Individual Dwelling Units (Heat Pump Space Heater Ready)

	Yes	Requirement
02	☐	A dedicated 240 volt branch circuit shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code.
03	☐	The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future heat pump space heater installation. The reserved space shall be permanently marked as "For Future 240V use".

Gas/ Propane Cooktops Serving Individual Dwelling Units

	Yes	Requirement
04	☐	A dedicated 240 volt branch circuit shall be installed within 3 feet from the cooktop and accessible to the cooktop with no obstructions. The branch circuit shall be rated at 50 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code.
05	☐	The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric cooktop installation. The reserved space shall be permanently marked as "For Future 240V use".

Gas/ Propane Clothes Dryers Serving Individual Dwelling Units

	Yes	Requirement
06	☐	A dedicated 240 volt branch circuit shall be installed within 3 feet from the clothes dryer and accessible to the clothes dryer with no obstructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code.
07	☐	The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric clothes dryer installation. The reserved space shall be permanently marked as "For Future 240V use".

Gas/ Propane Clothes Dryers In Common Areas

	Yes	Requirement
08	☐	Conductors or raceway shall be installed with termination points at the main electrical panel, via subpanels panels if applicable, to a location no more than 3 feet from each gas outlet or a designated location of future electric replacement equipment. Both ends of the conductors or raceway shall be labelled "Future 240V Use." The conductors or raceway and any intervening subpanels, panelboards, switchboards, and busbars shall be sized to meet the future electric power requirements, at the service voltage to the point at which the conductors serving the building connect to the utility distribution system, as specified below. The capacity requirements may be adjusted for demand factors in accordance with the California Electric Code. Gas flow rates shall be determined in accordance with the California Plumbing Code. Capacity shall be one of the following: - 24 amps at 208/240 volts per clothes dryer; - 2.6 kVA for each 10,000 Btu per hour of rated gas input or gas pipe capacity; or - The electrical power required to provide equivalent functionality of the gas-powered equipment as calculated by the responsible person.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-E - Must be submitted for all buildings.	☐	☐

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: JOSE AREVALO	Documentation Author Signature: Jose M Arevalo
Documentation Author Company Name: AMERICAN MODULAR SYSTEMS	Date Signed: 06/30/23
Address: 787 SPRECKELS AVE	CEA Certification Identification (if applicable):
City/State/Zip: MANTECA, CA	Phone: 209-825-1921

RESPONSIBLE PERSON'S DECLARATION STATEMENT

2. I certify the following under penalty of perjury, under the laws of the State of California:
   1. The information provided on this Certificate of Compliance is true and correct.
   2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
   3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
   4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
   5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
   6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Randall Cavanagh	Responsible Designer Signature: Randall Cavanagh
Company: American Modular systems	Date Signed: 6-28-23
Address: 787 Spreckels Avenue	License: C12631
City/State/Zip: Manteca, Ca 95363	Phone: (209)825-1921

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ELC-E
Electrical Power Distribution	(Page 1 of 3)

A. General Information
1. Enter the City the project is located in.
2. Climate Zone: Select from dropdown.
3. Select the applicable Occupancy Types within the Project.

B. Project Scope
1. Enter the Electrical Service Designation/Description.
2. Scope of Work: Select from dropdown.
3. Enter the kVA Rating.
4. Check if the Utility Provided Metering System meets Exception to §130.5(a)/§160.6(a)3.
5. Check if the System is subject to CA Elec Code Article 517 Exception to §130.5(a)&(b).
6. Demand Response Controls static text.
7. Check if power is provided to dwelling units/common living areas only in a multifamily occupancy.

C. Compliance Results
1. Results in this table are automatically calculated from data input and calculations in Tables F through J.

D. Exceptional Conditions
1. This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. Additional Remarks
1. Enter any notes or comments for the AHJ.

F. Service Electrical Metering
1. This field is filled out automatically.
2. This field is filled out automatically.
3. Instantaneous Demand checkbox is always checked.
   Historical Peak Demand checkbox is checked automatically.
   Tracking kWh for user-defined period checkbox is always checked.
   kWh per rate period is checked automatically.
4. Enter the Location of Requirements in Construction Documents.
5. This is a Pass or Fail checkbox for the field inspector.

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ELC-E
Electrical Power Distribution	(Page 2 of 3)

G. Separation of Electrical Circuits for Energy Monitoring
1. Load Type per Table 130.5-B: Select from dropdown.
2. This field is filled out automatically.
3. Compliance Method: Select from dropdown.
4. Enter the Location of Requirements in the Construction Documents.
5. This is a Pass or Fail checkbox for the field inspector.

H. Voltage Drop
1. This field is filled out automatically.
2. Select the Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method.
3. Location of Voltage Drop Calculation: Select from dropdown.
4. Enter the Sheet Number for Voltage Drop Calculation in Construction Documents.
5. This is a Pass or Fail checkbox for the field inspector.

I. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles
1. Enter the Room Name or Description.
2. Location/Type of Controlled Receptacles: Select from dropdown.
3. Shut-Off Controls: Select from dropdown.
4. Demand Responsive Controls: Select from dropdown.
5. Check if a Permanent Durable Marking Will be Used.
6. Enter the Location of Requirements in the Construction Documents.
7. This is a Pass or Fail checkbox for the field inspector.

J. Electric Ready Buildings
1. Select the applicable systems serving multifamily occupancy that use gas or propane.
2-8. Check Yes to verify your project meets the requirements.

K. Declaration of Required Certificates of Installation
Selections have been automatically made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks.

L. Declaration of Required Certificates of Acceptance

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ELC-E
Electrical Power Distribution	(Page 3 of 3)

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks.

Documentation Declaration Statements
1. The person who prepared the NRCC will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature.

April 30, 2023

DSA
Division of the State Architect
5100 Q street
Sacramento, CA 95811

This letter is in regards to the 2022 Energy/CALGreen Code DSA Plan Review, **2022 CBC - AMS PC Submissions.**

American Modular Systems (AMS) shall conform their on-site construction practices to comply with the required construction waste management practices illustrated in the Part 11, Title 24 California Green Building Code (CDC). The intent of this letter is to inform, illustrate, and demonstrate that AMS and its buildings comply to the following applicable code section illustrated below:

2022 California Green Building Code (CGC) – (Part 11, Title 24, CCR)

- ***Section 5.408.1 – Construction Waste Management***
  If the construction waste management takes place in the factory, provide program specifics to CALGreen plan reviewer which identifies:
  1. Percentage of waste to be salvaged or recycled with a minimum of 65% of nonhazardous construction waste.
  2. Procedures for waste management reporting.
  3. Type of waste to be diverted.
  4. If sorted or bulk mixed
  5. If handled by a waste management company or a diversion facility.
  6. If calculated by weight or volume.

AMS shall comply to this section by the following procedure & practice:

1. AMS shall be responsible for the organization and management of construction waste on the factory site, including the responsibility of recycling waste that is a minimum of 65% of non-hazardous construction waste.
2. AMS shall order rental waste & recycling bin(s) from a licensed and authorized waste management company from the City of Manteca, or equivalent in that matter. Upon approval, the bin(s) shall be dropped off on factory site by hired waste management company. As the bin(s) reach full capacity of construction waste, AMS schedules a pick-up for the bin(s) and is given invoice receipts from the waste management company.
3. AMS shall station the bin(s) whereas needed for AMS plant workers to salvage and/or recycle construction waste during the work day. **Each bin is labeled to help sort the different types of construction waste (e.g. Wood, Scrap Metal, Glass, Leather).**
4. AMS plant workers and management are responsible for **sorting** each bin with the correct types of construction waste listed above.
5. The invoice provided by the **hired waste management company** provides a description of the bin(s) and additional information.
6. Invoice receipts provides calculated **weights** of each bin & pricing of rental usage.

The PC plans and specifications will not reflect and show these procedures for any project.
Any questions regarding the construction waste management procedures,
please feel free to contact AMS's office.

Thank you,
Randall P. Cavanagh

LICENSED ARCHITECT RANDALL PATRICK CAVANAGH No. C12631 Ren. 03-31-25 STATE OF CALIFORNIA

American Modular Systems, Inc., 787 Spreckels Ave. Manteca, California 95336, Ph: 209 825 1921 Fax: 209 825 7018
www.americanmodular.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT RANDALL PATRICK CAVANAGH No. C12631 Ren. 3-31-25 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

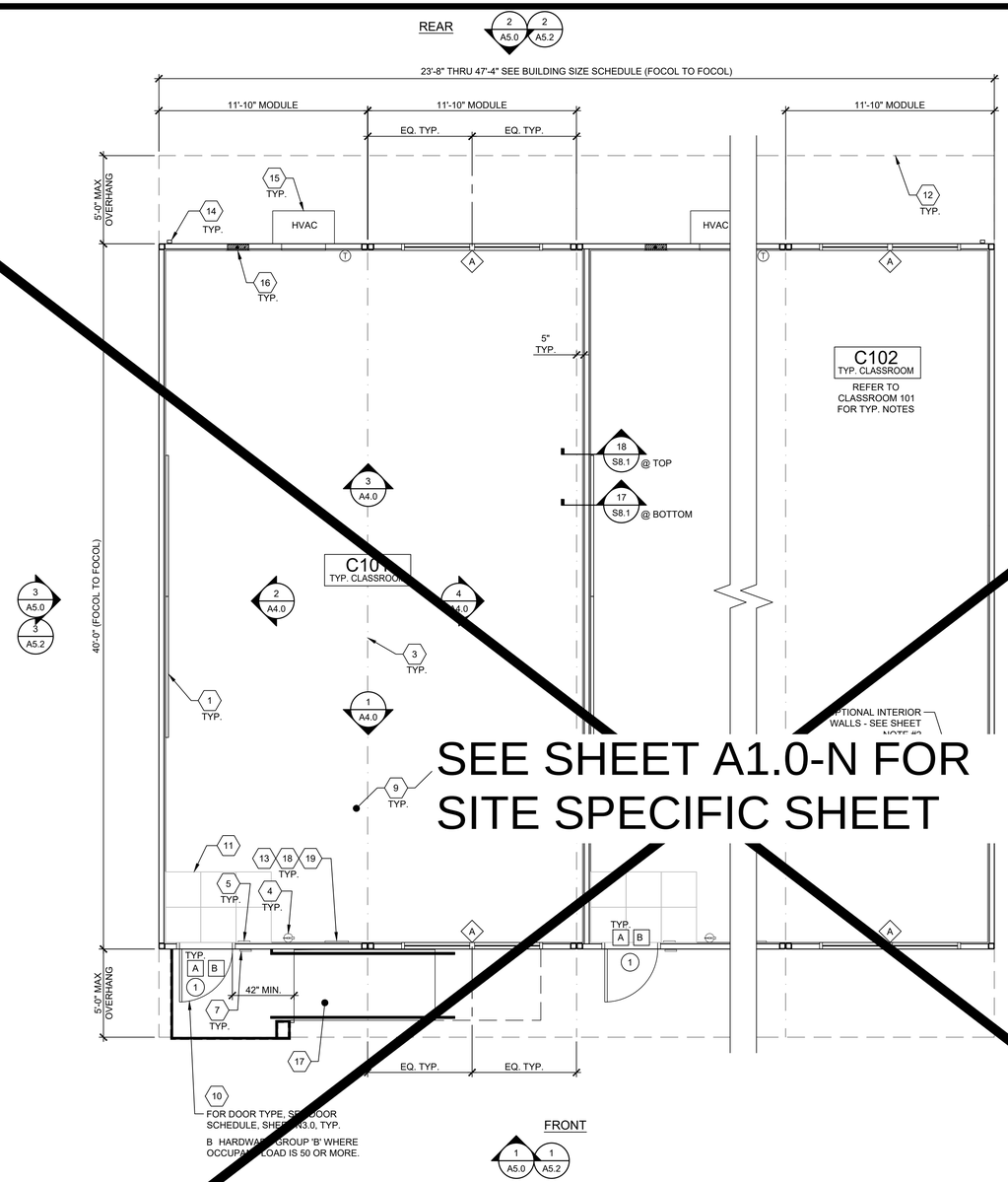
SHEET TITLE:

ENERGY CALCULATIONS
SUPPLEMENTAL SHEETS

SHEET NUMBER:

EN.28

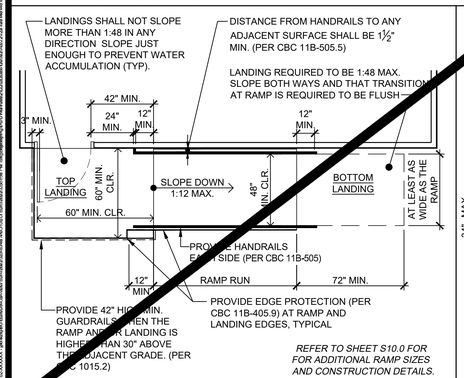
S:\XXXX-21\Drawings\Energy\EN.28 ELECTRICAL POWER DISTRIBUTION.dwg 10/26/2023 8:46:48 AM



BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☐ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

TYPICAL FLOOR PLAN

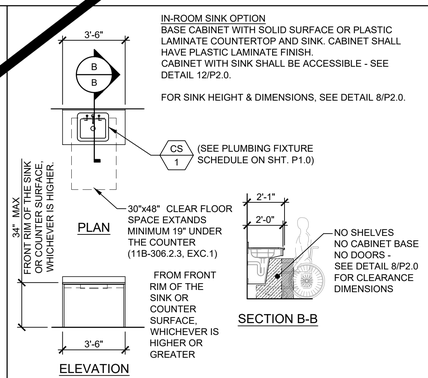
SCALE: 1/4" = 1'-0" | A



REFER TO SHEET S10.0 FOR FOR ADDITIONAL RAMP SIZES AND CONSTRUCTION DETAILS.

OPTIONAL RAMP PLAN

SCALE: 1/4" = 1'-0" | 16



OPTIONAL CLASSROOM SINK

SCALE: 1/4" = 1'-0" | 17

ENERGY CONTROLS

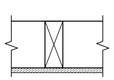
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE 120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED.
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

ACOUSTIC CONTROLS

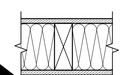
1. WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, A5.3, & A8.0, WITH EITHER 2x4 WOOD STUDS.
   MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 16" O.C. MAX.

STC=28
(CATALOG SECTION 1.2.1.5.4.1)
TEST REF.: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



(2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 24" O.C. MAX. W/ 2" THK. BATT INSULATION

STC=40
TEST REF.: AUDIO ALLOY LAB TEST NUMBER: OL-05-1003

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON SIZE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

ACOUSTIC NOTES

1	(2) 8'x4' MARKER BOARDS - SEE SHEET A4.0
2	NOT USED
3	TYP. MOD LINE
4	FIRE EXTINGUISHER - TOP OF HANDLE @ 48" A.F.F. 4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
5	TACTILE EXIT SIGN PER DETAIL 10/N4.0 "EXIT RAMP DOWN" SIGN WHEN RAMP IS BEING USED (BY OTHERS)
6	NOT USED
7	ROOM SIGNAGE AND I.A. PER DETAILS 5&9/N4.0 (BY OTHERS)
8	NOT USED
9	CARPET
10	ACCESS DOOR
11	NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE SEE DETAIL 14/N4.0 (11B-404.2.4.1 AND 11B-404.2.4.4).
12	OPTIONAL OVERHANG
13	OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14	DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) (QUANTITY AND LOCATION MAY VARY)
15	HVAC - SEE NOTES ON MECHANICAL AND EXTERIOR ELEVATION SHEETS
16	ELECTRICAL PANEL (LOCATION MAY VARY)
17	OPTIONAL TYPICAL RAMP REFER TO DETAIL 16/-.
18	FLOOR LIVE LOAD SIGN PER 2022 CBC SECTION 106.1 PROVIDED BY OTHERS. *(FLOOR LIVE LOAD SIGN IS REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF)*
19	ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0.

KEY NOTES

1. REFER TO SHEETS N5.0 FOR POSSIBLE ADDITIONAL FLOOR PLAN CONFIGURATIONS.
2. OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEET S8.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.
3. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.2.9 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
4. IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
5. FOR ROOMS OR SPACES CLASSIFIED AS AN ASSEMBLY OCCUPANCY, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
6. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
7. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
   - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
   - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   - DOOR RECESSED AT LEAST 4 FEET.
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
8. WINDOW PLACEMENT & SIZE MAY VARY AS THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 240 SQ. FT. FOR A DOUBLE-WIDE ROOM AND 168 SQ. FT. FOR A TRIPLE WIDE ROOM. JUSTIFICATION OF LARGER AREAS MAY BE BASED ON RATIO AND INTERPOLATION.
9. IF FIRE RATED WALLS ARE REQUIRED DUE TO SITE SPECIFIC REQUIREMENTS REFER TO DETAILS IN PAGE A8.0 FOR 1 HOUR RATED DETAILS

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

- X/# = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS
- X = KEY NOTE - SEE KEY NOTES ABOVE
- X = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

SYMBOLS LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK O'NEILL
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

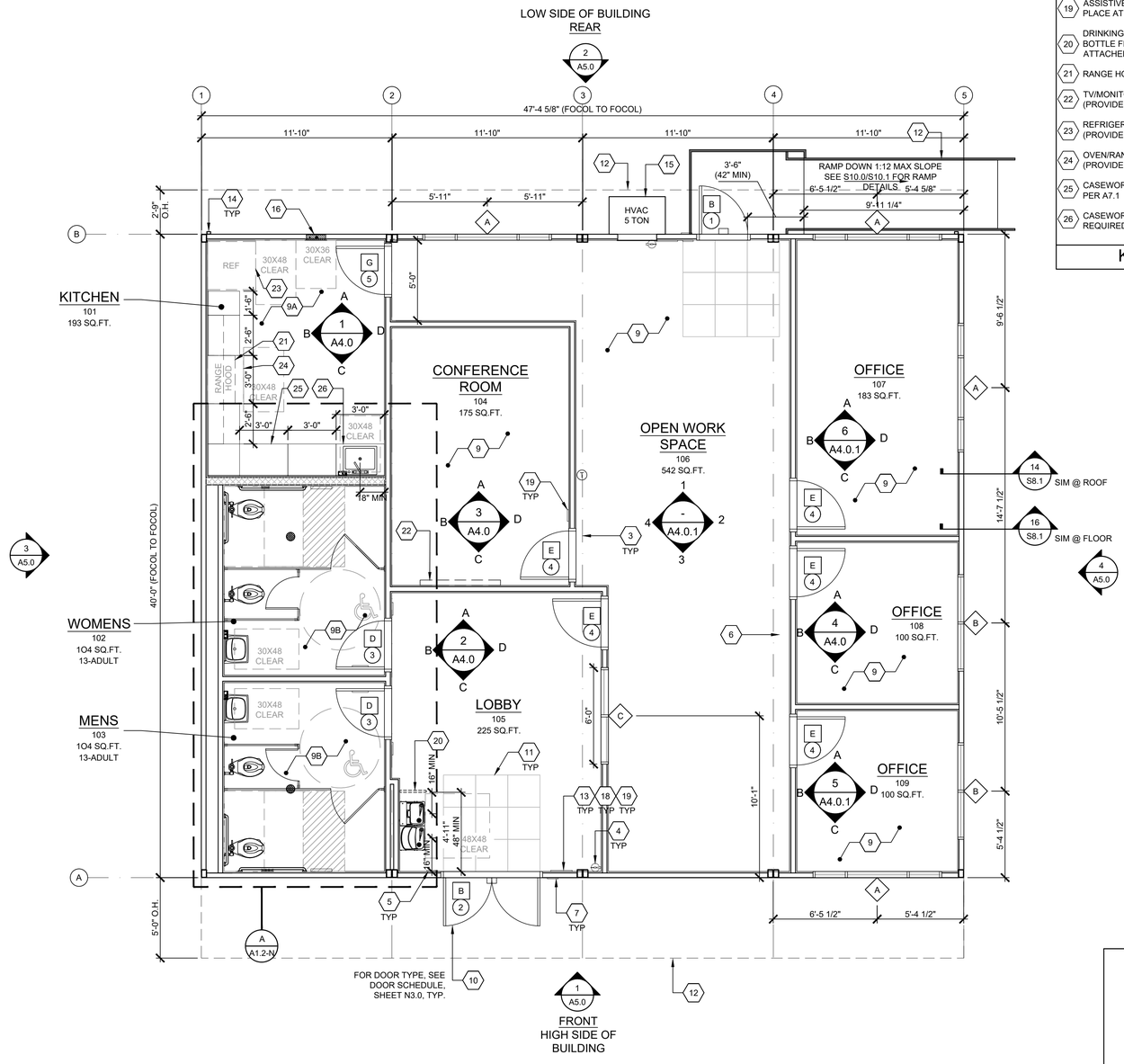
SHEET TITLE:

TYPICAL FLOOR PLAN

SHEET NUMBER:

A1.0

QL-XXXXX-[#=4x5A3x5D6x5E8x5J8x5S8x5S9x5T8x5T9x5V8x5W8]-[#=7]0[#=3]0[#=3]0[#=3



KEY NOTES CONT.

19. ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0.
20. DRINKING FOUNTAIN PER 11/P2.0 W/SENSOR OPERATED BOTTLE FILLER W/STAINLESS STEEL BARRIER RAIL(S) ATTACHED PER 5/A4.0-N
21. RANGE HOOD
22. TV/MONITOR 60" A.F.F. & 4" MAX PROTRUSTION (PROVIDED/INSTALLED BY OTHERS)
23. REFRIGERATOR SHALL COMPLY W/11B-804.6.6 (PROVIDED/INSTALLED BY OTHERS)
24. OVEN/RANGE SHALL COMPLY W/11B-804.6.4 (PROVIDED/INSTALLED BY OTHERS)
25. CASEWORK - AMS TO PROVIDE BLOCKING AS REQUIRED PER A7.1
26. CASEWORK W/SINK - AMS TO PROVIDE BLOCKING AS REQUIRED PER A7.1

1. NOT USED
2. NOT USED
3. TYP. MOD LINE
4. FIRE EXTINGUISHER - TOP OF HANDLE @ 48" A.F.F.
   4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
5. TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY OTHERS)
6. THERMOSTAT - TOP @ 46" A.F.F. - SEE ELECTRICAL SHEETS
7. ROOM SIGNAGE AND I.S.A. PER DETAILS 5&9/N4.0 (BY OTHERS)
8. NOT USED
9. CARPET - SEE N3.0 (IF MORE THAN ONE FLOORING TYPE USE 9A, 9B ETC.)
9A. LVT FLOORING
9B. SHEET VINYL FLOORING
10. EGRESS DOOR
11. NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE. NON-ABSORBENT MATERIAL SHALL BE FLUSH WITH CARPET (11B-404.2.4).
12. OVERHANG
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) (QUANTITY AND LOCATION MAY VARY)
15. HVAC - SEE MECHANICAL
16. ELECTRICAL PANEL - SEE ELECTRICAL
    TYPICAL RAMP REFER TO DETAIL 2/-
17.
18. FLOOR LIVE LOAD SIGN PER 2022 CBC SECTION 106.1 PROVIDED BY OTHERS. *(FLOOR LIVE LOAD SIGN IS REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF)*

KEY NOTES

1. ~~REFER TO SHEETS N5.0 FOR POSSIBLE ADDITIONAL FLOOR PLAN CONFIGURATIONS.~~
2. ~~OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEET S8.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.~~
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4. ~~IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.~~
5. FOR ROOMS OR SPACES CLASSIFIED AS AN ASSEMBLY OCCUPANCY, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
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SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

(NO HATCH) — 2X4 WALLS

2X6 WALLS

WALL LEGEND

X = KEY NOTE - SEE KEY NOTES ABOVE

X = DOOR TYPE - SEE SCHEDULE, SHEET N3.0

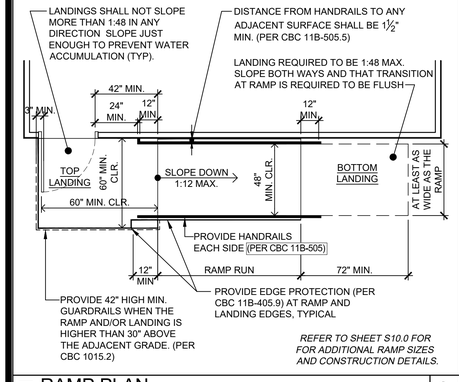
X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0

X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

SYMBOLS LEGEND

TYPICAL FLOOR PLAN

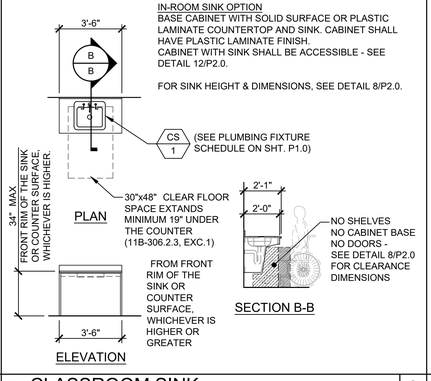
SCALE: 1/4" = 1'-0" | 1



REFER TO SHEET S10.0 FOR FOR ADDITIONAL RAMP SIZES AND CONSTRUCTION DETAILS.

RAMP PLAN

SCALE: 1/4" = 1'-0" | 2



IN-ROOM SINK OPTION
BASE CABINET WITH SOLID SURFACE OR PLASTIC LAMINATE COUNTERTOP AND SINK. CABINET SHALL HAVE PLASTIC LAMINATE FINISH.
CABINET WITH SINK SHALL BE ACCESSIBLE - SEE DETAIL 12/P2.0.

FOR SINK HEIGHT & DIMENSIONS, SEE DETAIL 8/P2.0.

CLASSROOM SINK

SCALE: 1/4" = 1'-0" | 3

ENERGY CONTROLS

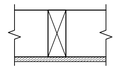
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE 120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED.
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

ACOUSTIC CONTROLS

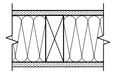
1. WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, REQUIRED FOR THIS PC.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, A5.3, & A8.0, WITH EITHER 2x4 WOOD STUDS.
   MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 16" O.C. MAX.

STC=28
(CATALOG SECTION 1.2.1.5.4.1)
TEST REF.: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



(2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 24" O.C. MAX. w/ 3½" THK. BATT INSULATION

STC=40
TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER: OL-05-1003

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

ACOUSTIC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANTHONY PATRICK GIATTI
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1 .
2
3
4

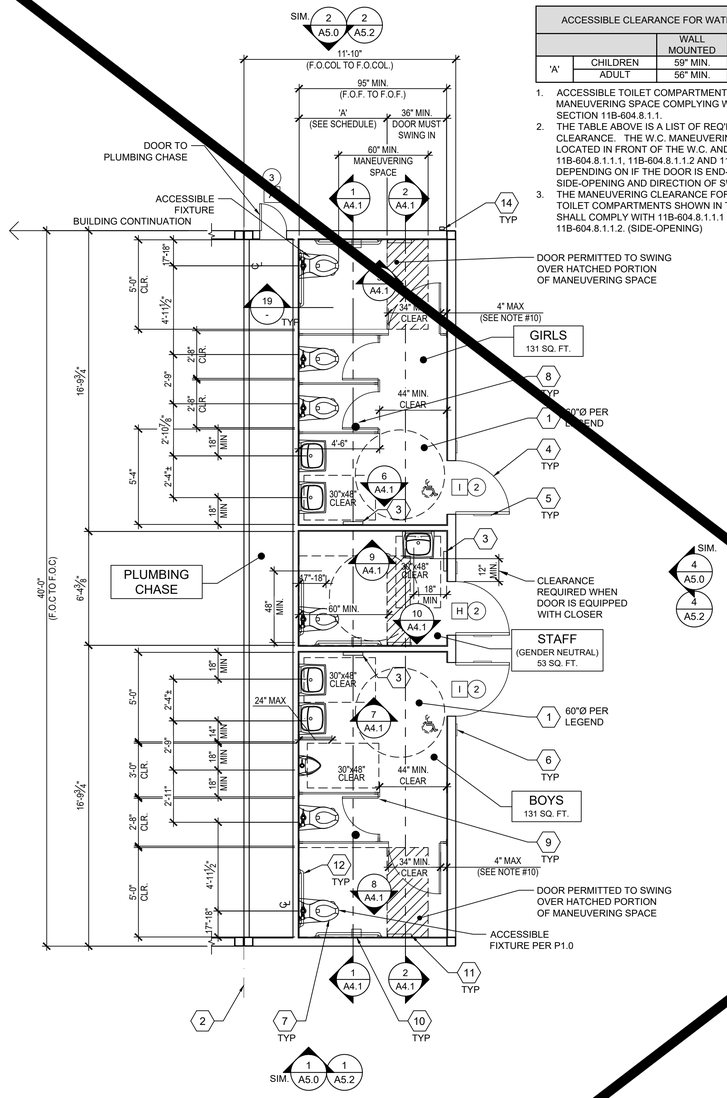
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

SHEET TITLE:

TYPICAL
FLOOR PLAN

SHEET NUMBER:

A1.0-N

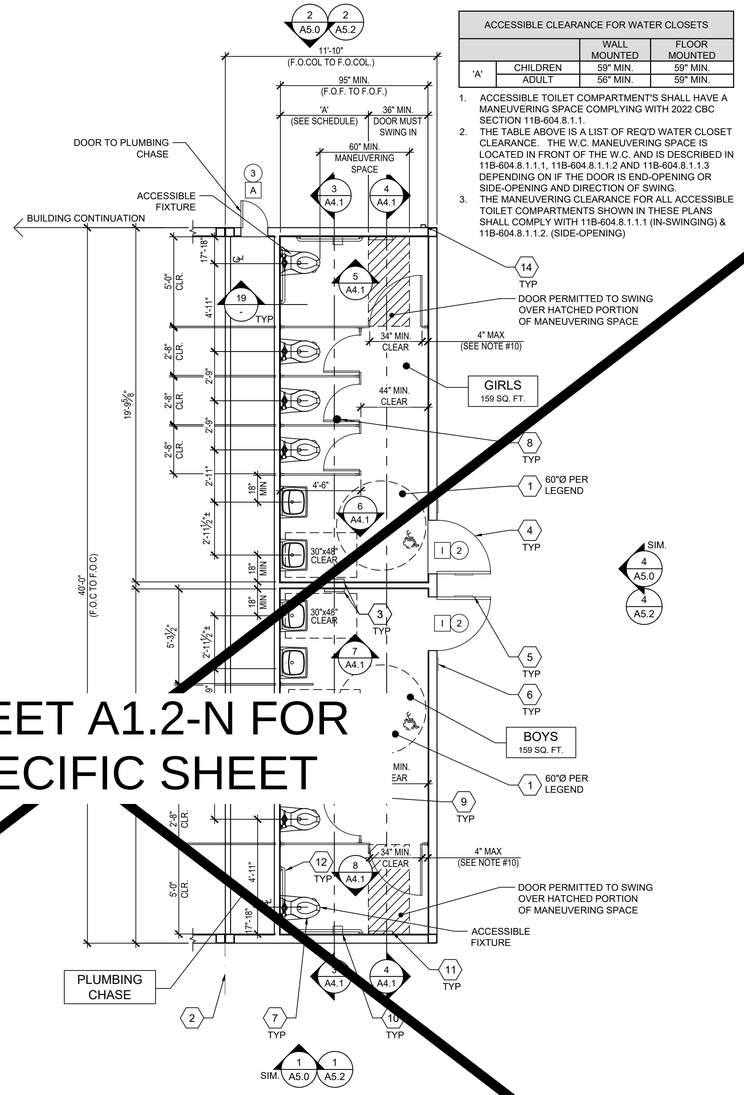


ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59" MIN.	59" MIN.
	ADULT	56" MIN.	59" MIN.

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2022 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)

BOYS, GIRLS & STAFF RESTROOM FLOOR PLAN OPTION

AGE RANGE: 13-ADULT — SCALE: 1/4" = 1'-0" — A



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BOYS & GIRLS RESTROOM FLOOR PLAN OPTION

AGE RANGE: 13-ADULT — SCALE: 1/4" = 1'-0" — B

SEE SHEET A1.2-N FOR SITE SPECIFIC SHEET

1. CLEAR FLOOR SPACE AREA
2. TYP. MOD LINE
3. PAPER TOWEL OR HAND DRYER (BY OTHERS) MAXIMUM PROJECTION 4" INTO PATH OF TRAVEL AND SHALL NOT ENCROACH THE LAVATORY CLEAR FLOOR SPACE
4. DOOR PER SCHEDULE ON SHEET N3.0, TYP.
5. RESTROOM SIGNAGE (BY OTHERS) PER DETAILS 1-9, SHEET N4.0
6. ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 5&9/N4.0
7. PLUMBING FIXTURE PER P1.0
8. FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0. 1:48 FLOOR SLOPE MAX.
9. TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL)
10. TOILET TISSUE DISPENSER PER P1.0
11. TOILET SEAT COVER DISPENSER PER P1.0 (BRADLEY MODEL 508-32, OR EQUAL)
12. GRAB BARS - SEE 6/A7.1
13. NOT USED
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.) (QUANTITY AND LOCATION MAY VARY)

KEY NOTES

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER MODULE OF THE SAME SIZE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS & DIMENSIONS.
7. REFER TO DETAILS 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.
10. TOILET COMPARTMENT DOORS LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (102MM) MAXIMUM FROM THE FRONT PARTITION, PER C.B.C. SECTION 11B-604.8.1.2.
11. ALL RESTROOM AND SINK ACCESSORIES NOT SHOWN HERE MUST BE COORDINATED BY THE PROJECT AOR/DISTRICT BEFORE SUBMITTING SITE-SPECIFIC PLANS TO DSA FOR REVIEW.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

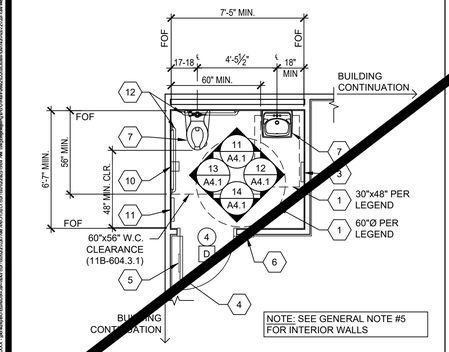
SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

GENERAL NOTES

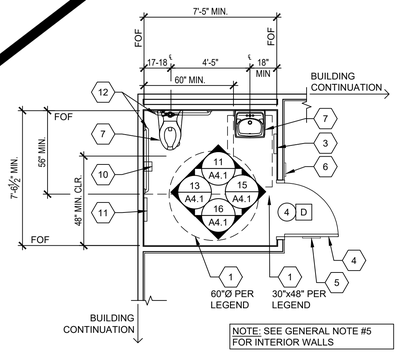
- = KEY NOTE - SEE KEY NOTES, THIS SHEET
- = DOOR TYPE - SEE SCHEDULE SHEET N3.0
- = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
- = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
- = 60" DIAMETER CLEAR FLOOR TURNING SPACE
- = 30"x48" CLEAR FLOOR SPACE

SYMBOLS LEGEND



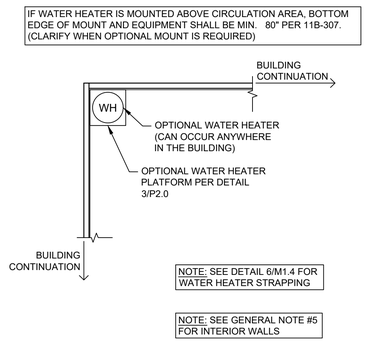
(THIS RESTROOM OPTION CAN OCCUR ANYWHERE IN THE BUILDING)

SINGLE TOILET PLAN - FRONT WALL APPROACH — SCALE: 1/4" = 1'-0" — 16

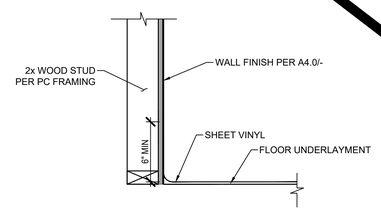


(THIS RESTROOM OPTION CAN OCCUR ANYWHERE IN THE BUILDING)

SINGLE TOILET PLAN - SIDE WALL APPROACH — SCALE: 1/4" = 1'-0" — 17



OPTIONAL WATER HEATER — SCALE: 1/4" = 1'-0" — 18



PROTECTION OF WOOD WALLS @ TOILET ROOMS — SCALE: 1/4" = 1'-0" — 19

SCALE: 1/4" = 1'-0" — 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANDREW PATRICK HOWARD — No. C12631 — Ren. 8-31-25 — STATE OF CALIFORNIA

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REVISIONS

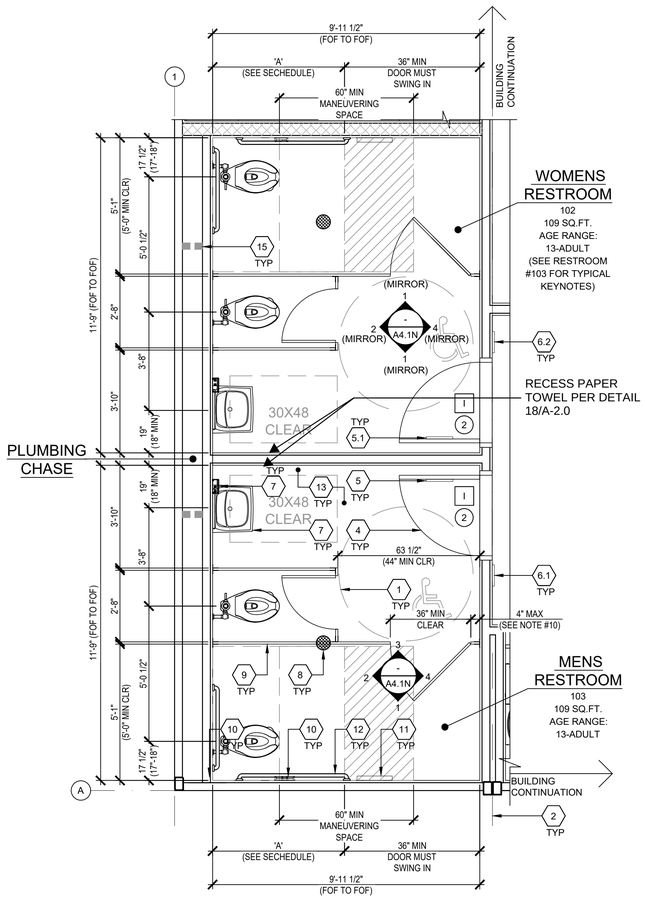
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 13-ADULT

SHEET NUMBER:

A1.2



MENS & WOMENS RESTROOM FLOOR PLAN
AGE RANGE: 13-ADULT
SCALE: 3/8" = 1'-0"

A

NOT USED

B

1 CLEAR FLOOR SPACE AREA
2 TYP. MOD LINE
3 NOT USED
4 DOOR PER SCHEDULE ON SHEET N3.0, TYP.
5 DOOR SIGNAGE (BY OTHERS) PER DETAILS 2 & 4, SHEET N4.0 (WOMEN)
5.1 DOOR SIGNAGE (BY OTHERS) PER 7 & 4 SHEET N4.0 (MEN)
6 NOT USED
6.1 ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 1, 4 & 9/N4.0 (MEN)
6.2 ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 6, 4 & 9/N4.0 (WOMEN)
6.3 NOT USED
7 PLUMBING FIXTURE PER P1.0
8 FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0
1:48 FLOOR SLOPE MAX
9 TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL)
10 TOILET TISSUE DISPENSER PER ACCESSIBLE HEIGHTS TABLE 10/P2.0
11 TOILET SEAT COVER DISPENSER PER P1.0 (BRADLEY MODEL 508-32, OR EQUAL)
12 GRAB BARS - SEE 6/A7.1
13 SHEET VINYL FLOORS
14 INSTANT TEMPERATURE TANK-LESS WATER HEATER - SEE 7/P2.0
15 ~~TYPICAL DRAFT STOP PER 5/M1.5~~

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GENERAL NOTES

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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CAREY HOWE
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	-
2	
3	
4	

DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	9/23/25
PROJECT NO:	1977-25

SHEET TITLE:

RESTROOM FLOOR PLAN
AGE RANGE: 13-ADULT

SHEET NUMBER:

A1.2-N

NOT USED

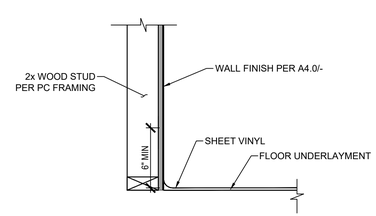
16

NOT USED

17

NOT USED

18



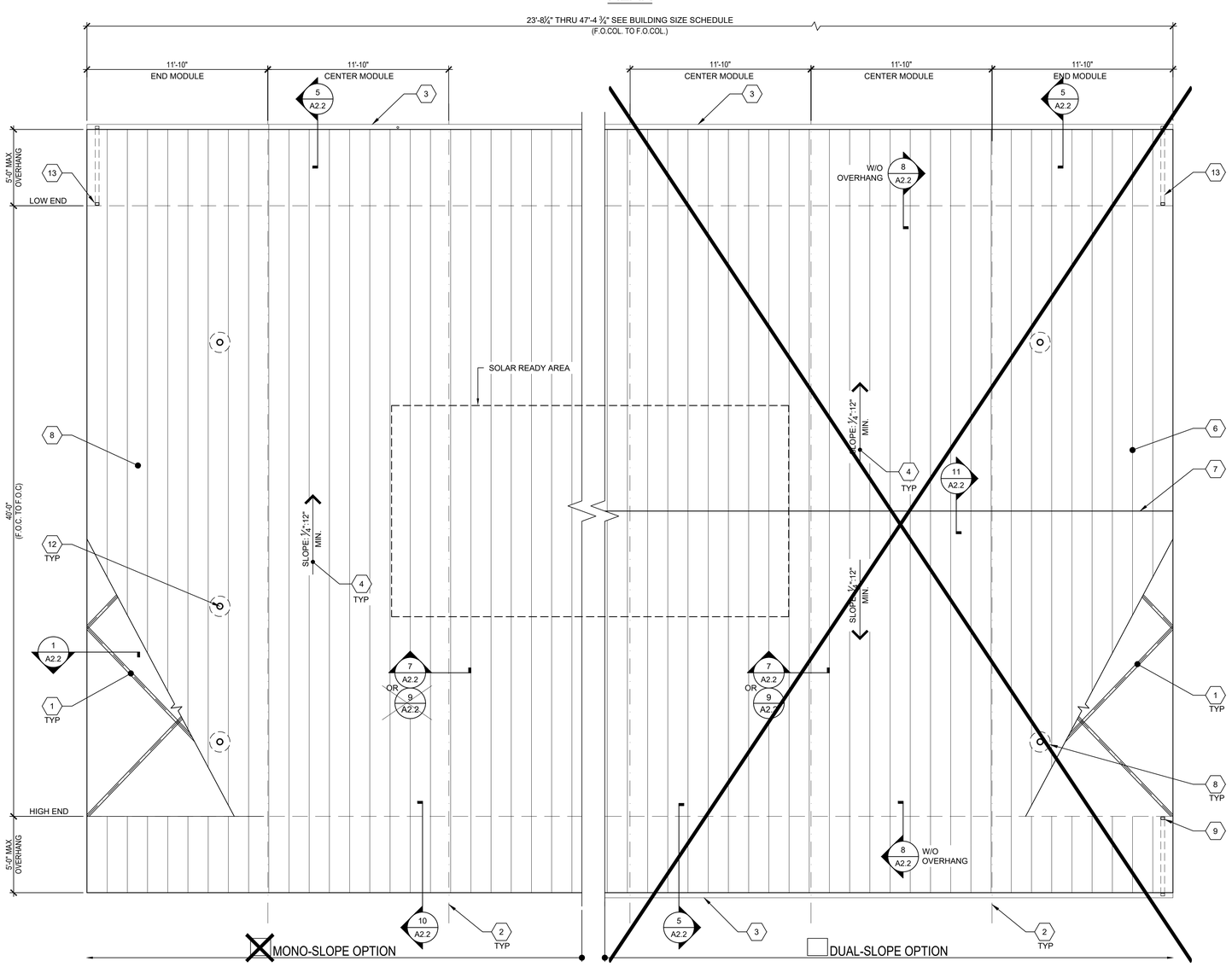
PROTECTION OF WOOD WALLS @ TOILET ROOMS
SCALE: 1/4" = 1'-0"

19

= KEY NOTE - SEE KEY NOTES, THIS SHEET
= DOOR TYPE - SEE SCHEDULE SHEET N3.0
= DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
= WINDOW TYPE - SEE SCHEDULE SHEET N3.0
= 60" DIAMETER CLEAR FLOOR TURNING SPACE
= 30"x48" CLEAR FLOOR SPACE

SYMBOLS LEGEND
SCALE: 1/4" = 1'-0"

20



TYPICAL ROOF PLAN

SCALE: 1/4" = 1'-0" 1

1. ROOF STRAP CROSS BRACING PER SHEET S4.0.
2. TYPICAL MOD LINE
3. ~~OPTIONAL~~ GUTTER PER DETAIL 5/A2.2
4. TYPICAL ROOF SLOPE
5. SOLAR READY AREA
6. STANDING SEAM METAL ROOF CLASS B PER 7/S0.0 & DETAILS ON SHEET A2.2
7. ~~RIDGE @ DUAL SLOPE OPTION~~
8. PIPE VENT PER PLUMBING PLANS & 2/M1.6
9. ~~OPTIONAL~~ DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW FOR MIN. # OF DRAINS.

KEY NOTES

1. OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END-WALLS OF THE BUILDING(S):
   - MONO-SLOPE: REAR END WALLS ONLY.
   - ~~DUAL-PITCH:~~ ~~BOTH FRONT & REAR END WALLS.~~

SHEET NOTES

SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.

1. REQUIRED SOLAR-READY ZONE, AREA PER THE CHART BELOW, MUST BE PROVIDED ON BUILDING ROOF.
2. ZONE MUST BE LEFT VOID OF ROOF-MOUNTED HVAC UNITS, OR OTHER OBSTRUCTIONS THAT WOULD HINDER FUTURE INSTALLATION OF SOLAR SYSTEM COMPONENTS, INCLUDING PV PANELS.
3. TOTAL AREA REQUIRED FOR SOLAR-READY ZONE DOES NOT NEED TO BE LOCATED IN ONE AREA BUT CAN BE SPREAD OUT OVER ROOF.
4. SOLAR-READY ZONE SHALL NOT INCLUDE ROOF OVERHANGS, AND SOLAR SYSTEM COMPONENTS MAY NOT BE PLACED THERE.
5. THE ROOF STRUCTURE HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES NOT INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE.
6. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
7. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
8. REFER TO SHEET EN.1 FOR SOLAR PANEL ZONE REQUIREMENTS.

REQUIRED SOLAR-READY ZONE		
BUILDING SIZE (NOM.)	MAX. ROOF AREA (SQ. FT.)	REQ'D ZONE AREA (SQ. FT.)
☐ 24'x40'	1200	0
☐ 36'x40'	1800	0
☐ *48'x40'	2400	360

*THE SOLAR READY AREA FOR THIS BUILDING IS ONLY REQUIRED AT ENERGY ZONES 14 AND 15

ROOF DRAIN SCHEDULE

ROOF AREA DRAINS (WITH 5' 2' OVERHANGS)			
BUILDING SIZE (NOM.)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
☐ 24'x40'	1128	1	2x3
☐ 36'x40'	1692	1	2x3
☒ 48'x40'	2256	1	2x3

NOTES:
1. DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1101.12.
2. PC DOWNSPOUT SIZING BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

BUILDING SIZE SCHEDULE

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☐ 36'x40'	3	1	35'-6"
☒ 48'x40'	4	2	47'-4"

NOT USED 3

NOT USED 4

SOLAR-READY ZONE REQUIREMENTS

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787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK D. HOWARD
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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1
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3
4

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

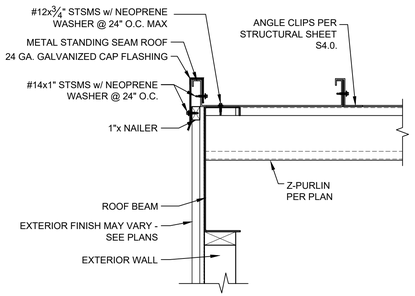
SHEET TITLE:

TYPICAL ROOF PLAN
METAL STANDING SEAM

SHEET NUMBER:

A2.0

D:\XXXX_{ab-4e4e-8758-0c3b-3db1-03-0202f2d2c9a}\Revit Local\XXXX-21_{D3D2F2D2-0202-0202-0202



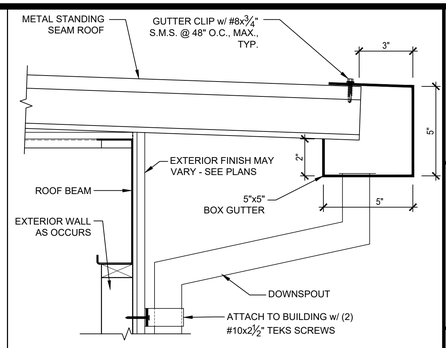
SEE SHEETS A5.0 ~~& A5.2~~ FOR EXTERIOR FINISHES.

METAL ROOF w/ STRAPS — SCALE : 1 1/2"=1'-0" — 1

NOT USED — 2

NOT USED — 3

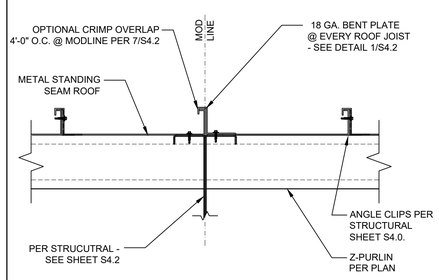
NOT USED — 4



~~SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.~~
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.

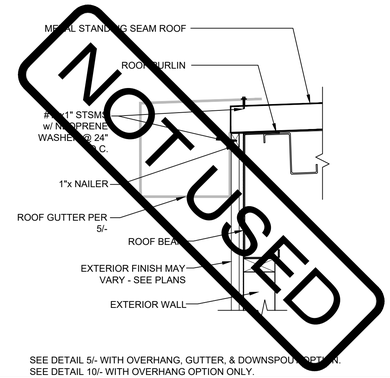
TYP. GUTTER ATTACHMENT — SCALE : 1 1/2"=1'-0" — 5

NOT USED — 6



NOTE: SEE DETAIL 9/- FOR OPTIONAL MOD-LINE CONNECTION AT SEISMIC JOINT.

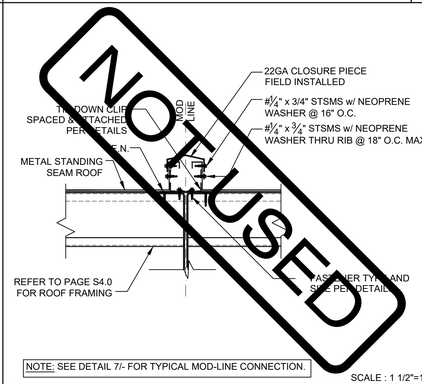
TYP. ROOF BEAM CONN. @ MODLINE — SCALE : 1 1/2"=1'-0" — 7



NOT USED

SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.

METAL ROOF @ END WALLS (w/o OVERHANGS) — SCALE : 1 1/2"=1'-0" — 8



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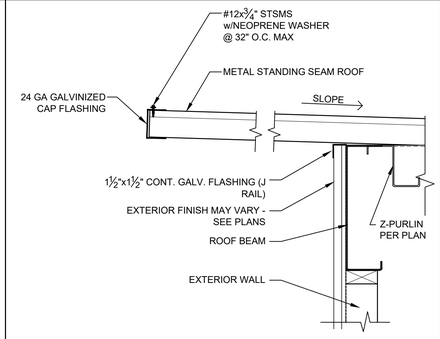
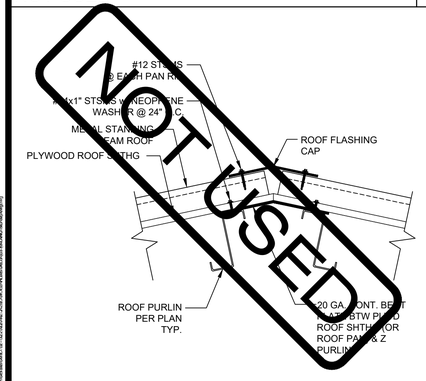
NOTE: SEE DETAIL 7/- FOR TYPICAL MOD-LINE CONNECTION.

METAL ROOF @ MODLINE OPTION — SCALE : 1 1/2"=1'-0" — 9



SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
~~SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.~~

METAL ROOF EDGE @ OVERHANG — SCALE : 1 1/2"=1'-0" — 10



~~NOT USED~~

OPTIONAL METAL DUAL SLOPED — SCALE: 1-1/2"=1'-0" — 11

NOT USED — 12

NOT USED — 13

NOT USED — 14

NOT USED — 15

NOT USED — 16

NOT USED — 17

NOT USED — 18

NOT USED — 19

NOT USED — 20

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Phone (209) 825-1921 Fax (209) 825-7018
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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

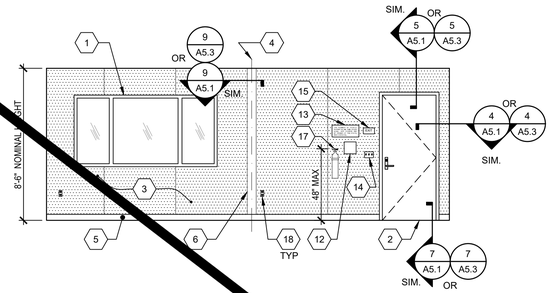
SHEET TITLE:

TYPICAL ROOF DETAILS
METAL STANDING SEAM

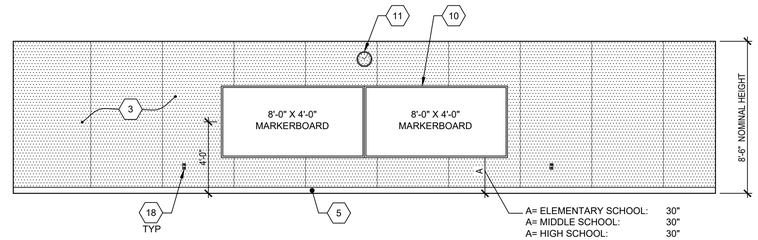
SHEET NUMBER:

A2.2

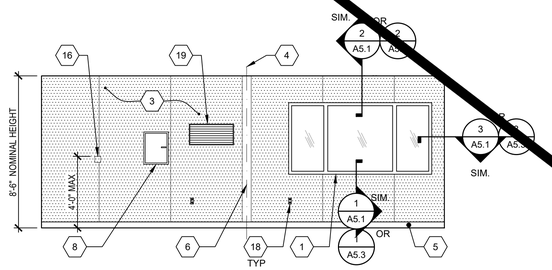
D:\XXXX-21\Revit\XXXX-21_CENTRAL_R23.rvt 10/26/2023 8:38:00 AM



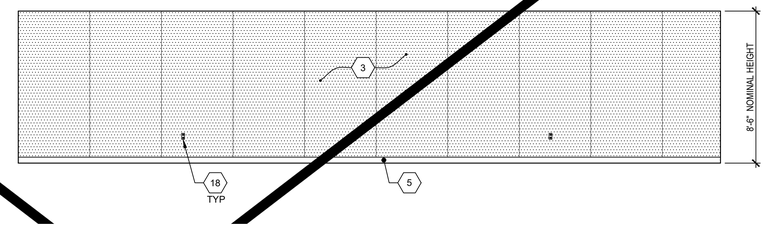
TYPICAL CLASSROOM FRONT END WALL ELEVATION — SCALE : 1/4"=1'-0" | 1



TYPICAL CLASSROOM SIDE WALL ELEVATION — SCALE : 1/4"=1'-0" | 2



TYPICAL CLASSROOM REAR END WALL ELEVATION — SCALE



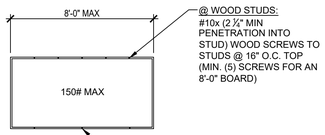
SCALE : 1/4"=1'-0" | 4

NOT USED | 5

NOT USED | 6

NOT USED | 7

MARKERBOARD ATT. DETAIL — SCALE : 1/4"=1'-0" | 8



NOTE:
1. ATTACHMENT IS FOR EACH MARKERBOARD.
2. EACH WHITEBOARD SHALL NOT PROTRUDE 4" MAX HORIZONTALLY INTO THE CIRCULATION PATH, PER CBC SECTION 11B-307.2.
3. EACH WHITEBOARD SHALL HAVE FASTENERS PROVIDED BY MANUFACTURER AS NOTED ABOVE.

NOT USED | 9

NOT USED | 10

NOT USED | 11

NOT USED | 12

KEY NOTES

1. WINDOW, SEE SPEC'S
2. TYP EXTERIOR DOOR
3. TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
4. TYP MOD LINE
5. TOP SET BASE
6. FULL PANEL CLOSE-UP AT MOD LINES, TYP
7. NOT USED
8. ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
9. NOT USED
10. (2) 4'-0" MARKER BOARDS - SEE DETAIL 8/A4.0
11. CLOCK
12. ASSISTIVE LISTENING SIGN, BY OTHERS, INSTALLED PER DETAIL 17/N4.0 SIGN SHALL BE A MAXIMUM OF 70" A.F.F. TO BASELINE OF HIGHEST TEXT.
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. LIGHT SWITCH - SEE ELECTRICAL SHEETS
15. EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
16. THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
17. FIRE EXTINGUISHER TOP OF HANDLE @ 48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER MORE THAN THAN 27" A.F.F
18. TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19. HVAC GRILL

SEE SHEET A4.0-N FOR SITE SPECIFIC SHEET

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RAYMOND PATRICK GAMMACHE
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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1	
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3	
4	

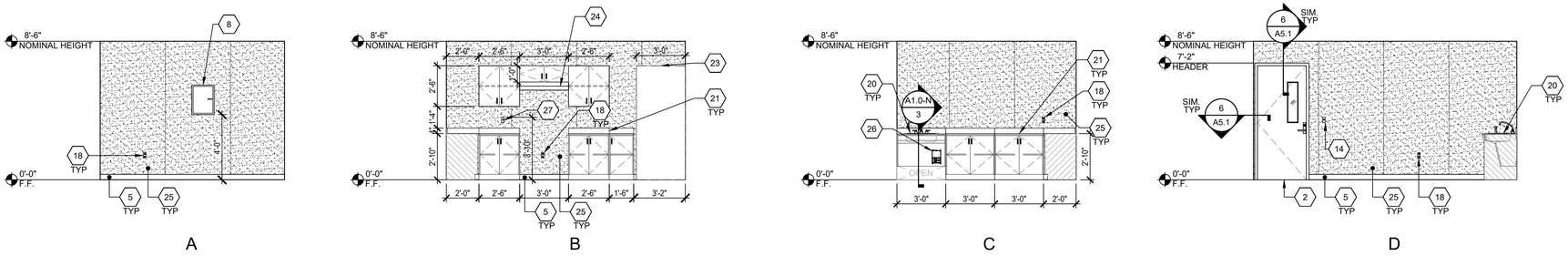
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

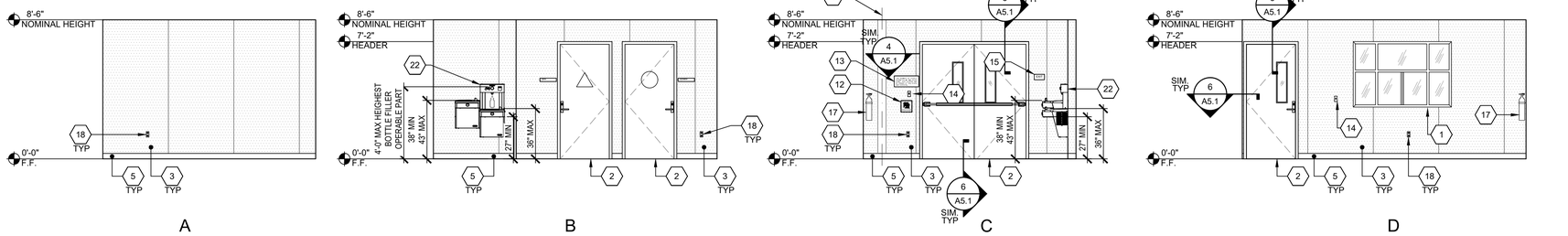
INTERIOR ELEVATIONS
TYPICAL CLASSROOM

SHEET NUMBER:

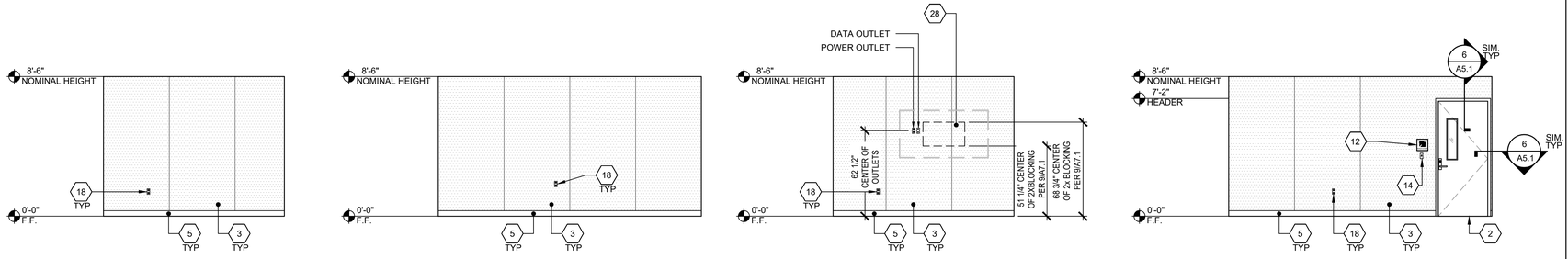
A4.0



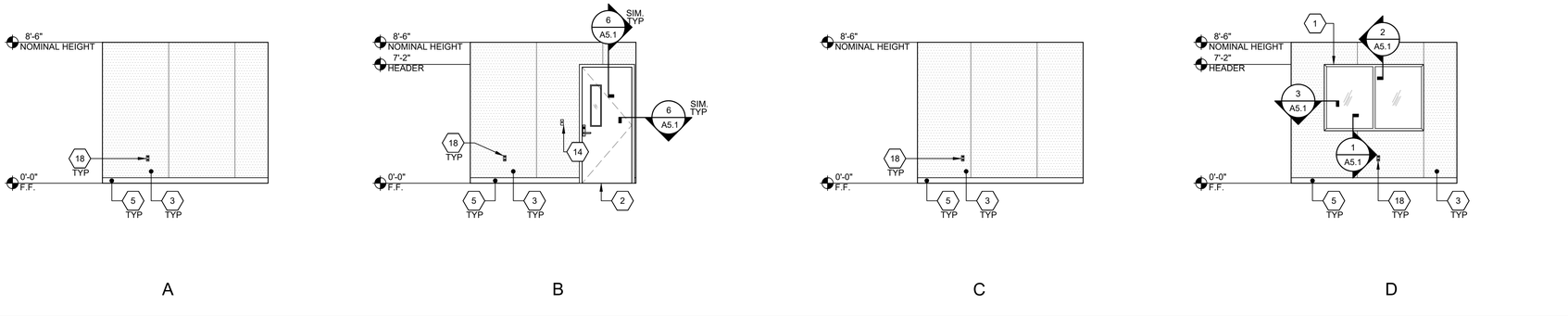
KITCHEN #101 INTERIOR ELEVATIONS — SCALE : 1/4"=1'-0" — 1



LOBBY #105 INTERIOR ELEVATIONS — SCALE : 1/4"=1'-0" — 2



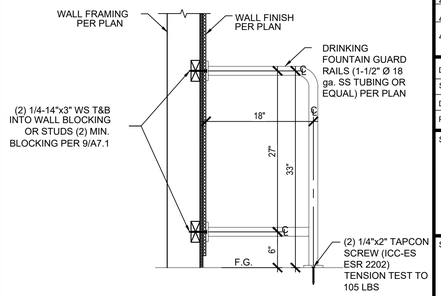
CONFERENCE ROOM #104 INTERIOR ELEVATIONS — SCALE : 1/4"=1'-0" — 3



OFFICE #108 INTERIOR ELEVATIONS — SCALE : 1/4"=1'-0" — 4

KEY NOTES

1. NOT USED
2. TYP DOOR
3. TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
4. TYP MOD. LINE
5. TOP SET BASE
6. BATTEN CLOSE-UP AT MOD-LINES, TYP
7. NOT USED
8. ELECTRICAL PANEL 4" MAX PROTRUSION - SEE ELECTRICAL SHEETS
9. NOT USED
10. NOT USED
11. CLOCK
12. ASSISTIVE LISTENING SIGN, BY OTHERS, INSTALLED PER DETAIL 17/N4.0 SIGN SHALL BE A MAXIMUM OF 70" A.F.F. TO BASELINE OF HIGHEST TEXT. (NIC)
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
14. LIGHT SWITCH - SEE ELECTRICAL SHEETS
15. EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
16. THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
17. FIRE EXTINGUISHER TOP OF HANDLE @ 48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER MORE THAN THAN 27" A.F.F
18. TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19. HVAC GRILL
20. CASEWORK W/ SINK & BUBBLER - REFER TO 8/A7.1 FOR BLOCKING
21. CASEWORK - REFER TO 8/A7.1 FOR BLOCKING
22. DRINKING FOUNTAIN PER 11/P2.0 w/SENSOR OPERATED BOTTLE FILLER w/STAINLESS STEEL GUARD RAIL(S) ATTACHED PER 5/-
23. REFRIGERATOR SHALL COMPLY WITH 11B-804.6.6 (BY OTHERS)
24. EXHAUST HOOD (RANGE BY OTHERS)
25. F.R.P.(FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
26. INSTANT TEMPERATURE TANK-LESS WATER HEATER - SEE 7/P2.0
27. RANGE HOOD DEDICATED SWITCH
28. BACKING AS REQUIRED PER A7.1 FOR TV/MONITOR 4" MAX PROTRUSTION (PROVIDED/INSTALLED BY OTHERS)



DRINKING FOUNTAIN GUARDRAIL ATTACHMENT — SCALE : 1"=1'-0" — 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT — ANDREW PATRICK HOWE — No. C12631 — Ren. 9-31-27 — STATE OF CALIFORNIA

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REVISIONS

1	
2	
3	
4	

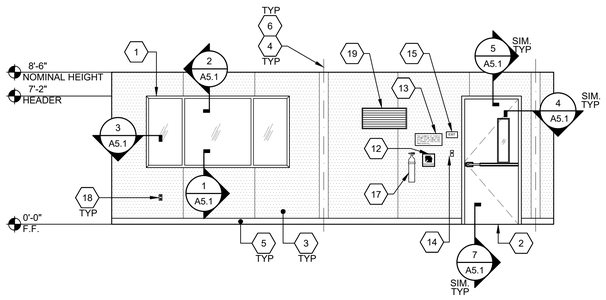
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

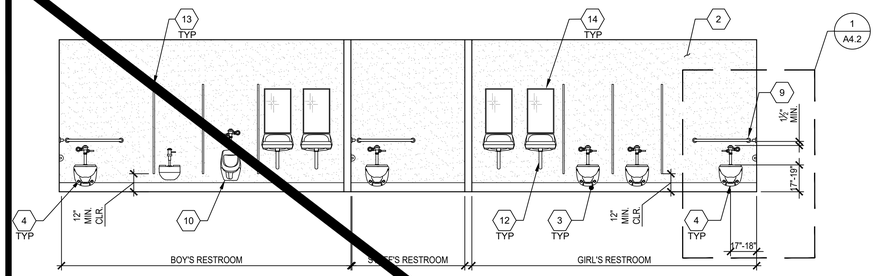
SHEET TITLE:

INTERIOR ELEVATIONS
CLASSROOM

SHEET NUMBER:

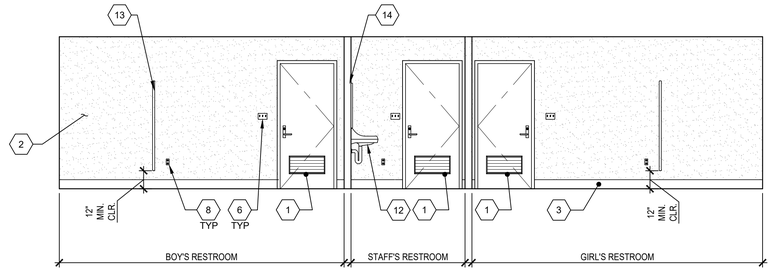
A4.0-N


8'-6" NOMINAL HEIGHT
7'-2" HEADER
0'-0" F.F.
TYP
SIM. TYP
A5.1
TYP
SIM. TYP
TYP
TYP

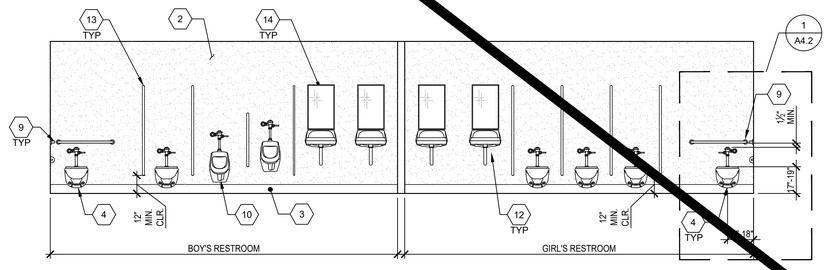


NOTE: SEE DETAIL 17/- FOR ALTERNATE TOILET TYPES

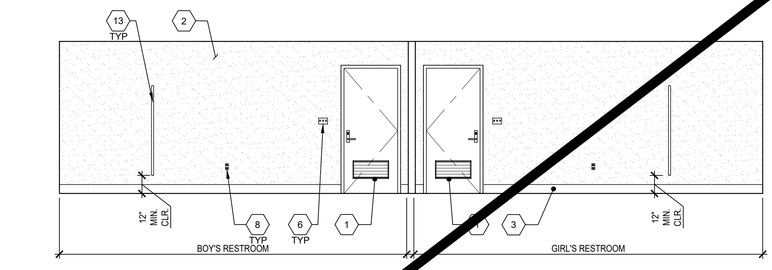
RESTROOM SIDEWALL ELEVATION - GIRLS, STAFF, BOYS 1
AGE RANGE: 13-ADULT (WALL MOUNT) SCALE: 1/4" = 1'-0"



RESTROOM SIDEWALL ELEVATION - GIRLS, STAFF, BOYS 2
AGE RANGE: 13-ADULT (WALL MOUNT) SCALE: 1/4" = 1'-0"



RESTROOM SIDEWALL ELEVATION - BOYS & GIRLS 3
AGE RANGE: 13-ADULT (WALL MOUNT) SCALE: 1/4" = 1'-0"



RESTROOM SIDEWALL ELEVATION - BOYS & GIRLS 4
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"

1 TYPICAL DOOR

2 F.R.P.(FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

3 6" TOP SET BASE

4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0

5 NOT USED

6 LIGHT SWITCH - SEE ELECTRICAL SHEETS

7 TOILET PAPER DISPENSER (BRADLEY MODEL 508-32, OR EQUAL)

8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS

9 GRAB BAR - SEE DETAIL 6/A7.1 & 14/P2.0

10 ACCESSIBLE URINAL - SEE DETAIL 15/P2.0

11 TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL)

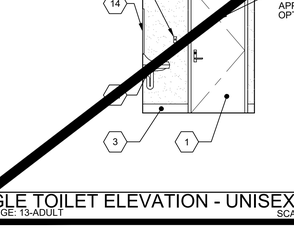
12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0

13 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)

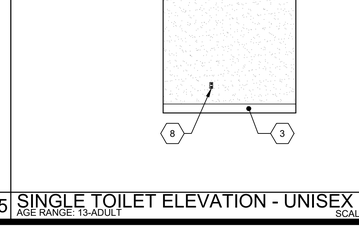
14 TYP. MIRROR (19" MAX. WEIGHT) - SEE DETAIL 17/P2.0

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10.

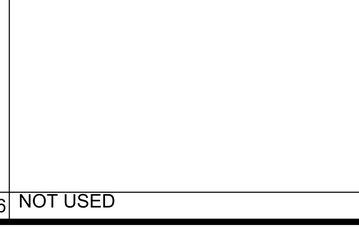
KEY NOTES



RESTROOM ENDWALL ELEV. - GIRLS 5
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"

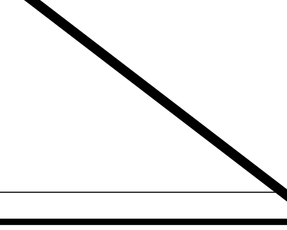


RESTROOM INTERIOR WALL ELEV. - GIRLS 6
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"

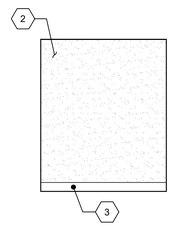


RESTROOM INTERIOR WALL ELEV. - BOYS 7
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"

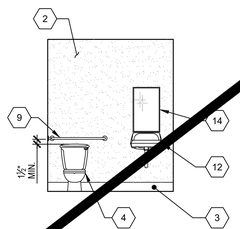
RESTROOM ENDWALL ELEV. - BOYS 8
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



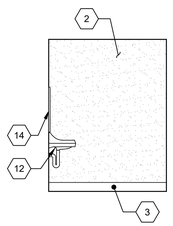
RESTROOM INTERIOR WALL ELEV. - STAFF 9
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



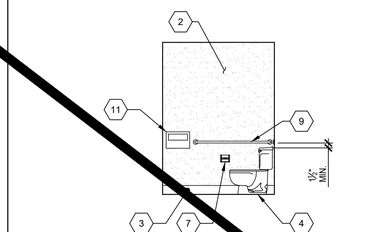
RESTROOM INTERIOR WALL ELEV. - STAFF 10
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



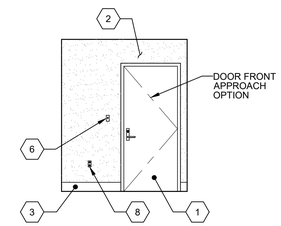
SINGLE TOILET ELEVATION - UNISEX 11
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



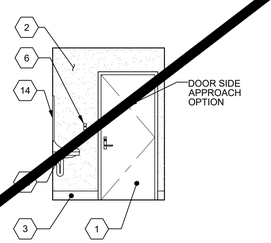
SINGLE TOILET ELEVATION - UNISEX 12
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



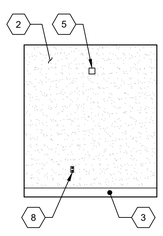
SINGLE TOILET ELEVATION - UNISEX 13
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



SINGLE TOILET ELEVATION - UNISEX 14
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



SINGLE TOILET ELEVATION - UNISEX 15
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"



SINGLE TOILET ELEVATION - UNISEX 16
AGE RANGE: 13-ADULT SCALE: 1/4" = 1'-0"

NOT USED 17

SEE SHEET A4.1-N FOR SITE SPECIFIC SHEET

D:\XXXX-..\[64c4b2f3f3f0f2fc18b-5A9-1D-1D0D3D3D3]$$$$.RVT 10/25/2023 8:00:00 AM

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DATE: 01/14/2026

American Modular Systems
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Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK O'HEARN
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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REVISIONS

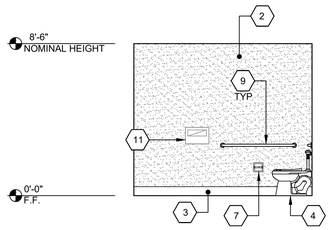
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

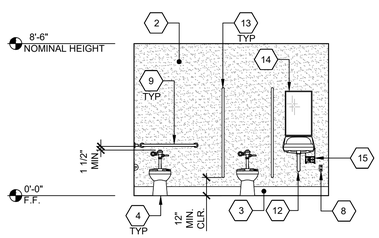
INTERIOR ELEVATIONS
RESTROOM OPTIONS

SHEET NUMBER:

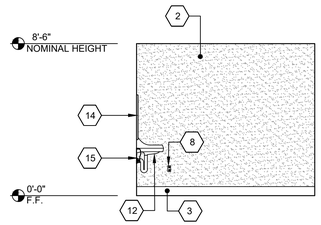
A4.1



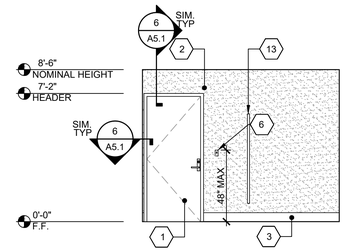
TOILET ELEVATION - MENS & WOMENS
SCALE: 1/4" = 1'-0" | 1



TOILET ELEVATION - MENS & WOMENS
SCALE: 1/4" = 1'-0" | 2



TOILET ELEVATION - MENS & WOMENS
SCALE: 1/4" = 1'-0" | 3



TOILET ELEVATION - MENS & WOMENS
SCALE: 1/4" = 1'-0" | 4

NOT USED | 5

NOT USED | 6

NOT USED | 7

NOT USED | 8

NOT USED

KEY NOTES

1. TYPICAL DOOR
2. F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
3. 6" SELF COVE - REFER TO DETAIL 19/A1.2
4. ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
5. NOT USED
6. LIGHT SWITCH - SEE ELECTRICAL SHEETS
7. TOILET PAPER DISPENSER PER P1.0
8. TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
9. GRAB BAR - SEE DETAIL 6/A7.1
10. NOT USED
11. TOILET SEAT COVER DISPENSER PER P1.0 (BY OTHERS)
12. ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
13. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
14. TYP. MIRROR (19# MAX. WEIGHT) - SEE DETAIL 17/P2.0
15. INSTANT TEMPERATURE TANK-LESS WATER HEATER - SEE 7/P2.0

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10.

NOT USED | 9

NOT USED | 10

NOT USED | 11

NOT USED | 12

NOT USED | 13

NOT USED | 14

NOT USED | 15

NOT USED | 16

NOT USED | 17

NOT USED | 18

NOT USED | 19

NOT USED | 20

NOT USED | 21

NOT USED | 22

NOT USED | 21

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DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'HANLON
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

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REVISIONS

1	-
2	
3	
4	

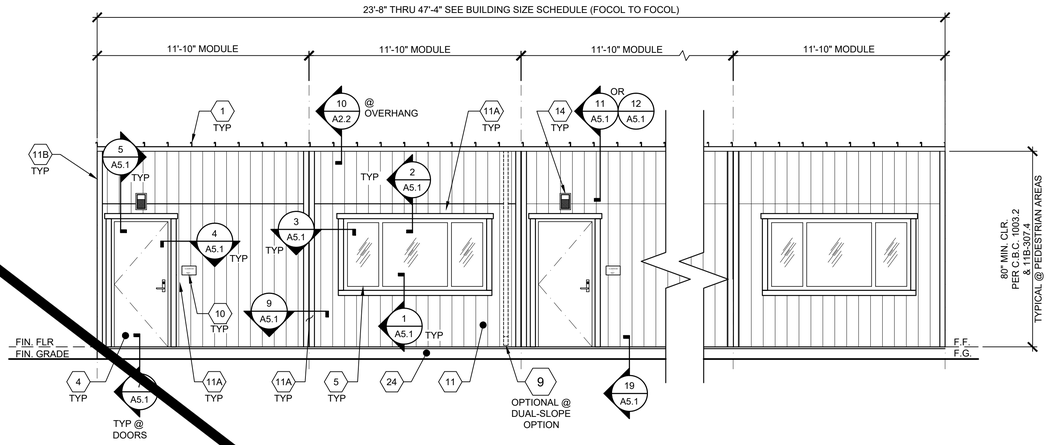
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

SHEET TITLE:

INTERIOR ELEVATIONS
RESTROOM

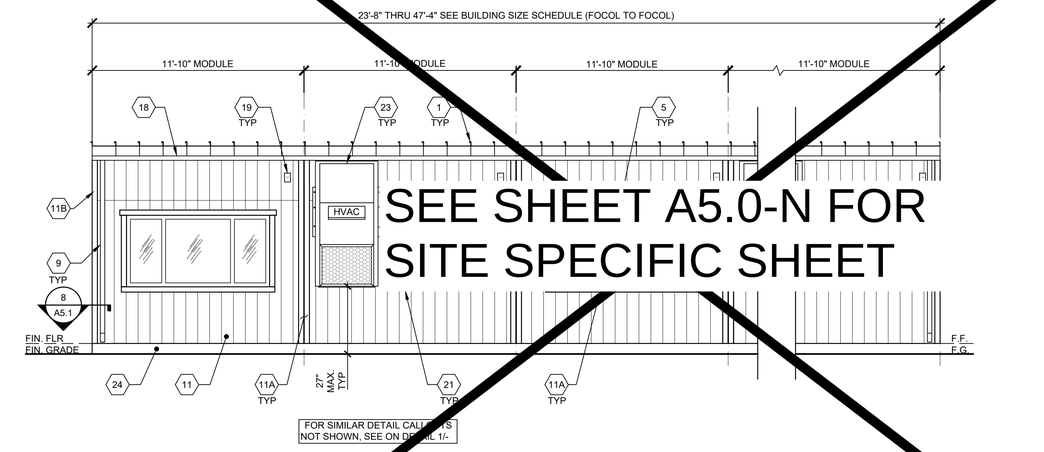
SHEET NUMBER:

A4.1-N



EXTERIOR ELEVATION - FRONT

SCALE : 1/4"=1'-0" | 1



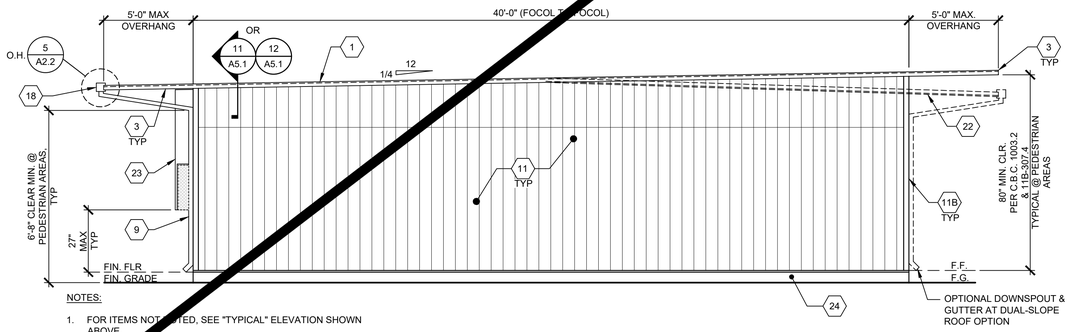
SEE SHEET A5.0-N FOR SITE SPECIFIC SHEET

EXTERIOR ELEVATION - REAR

SCALE : 1/4"=1'-0" | 2

NOTES:

1. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

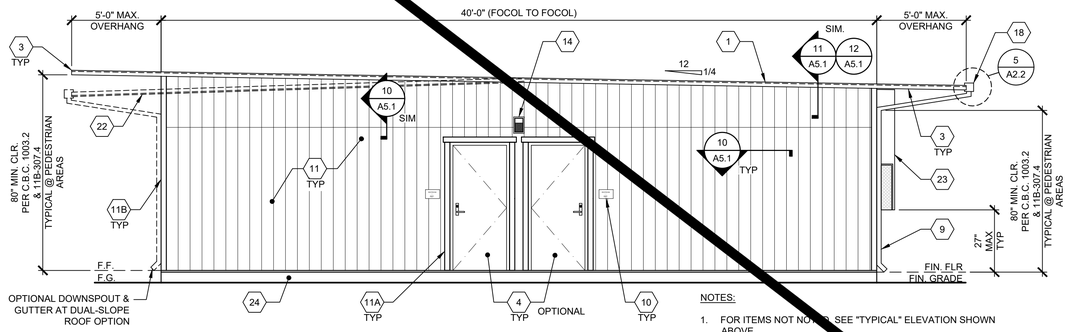


NOTES:

1. FOR ITEMS NOT NOTED, SEE "TYPICAL" ELEVATION SHOWN ABOVE.
2. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

EXTERIOR ELEVATION - LEFT

SCALE : 1/4"=1'-0" | 3



NOTES:

1. FOR ITEMS NOT NOTED, SEE "TYPICAL" ELEVATION SHOWN ABOVE.
2. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

EXTERIOR ELEVATION - RIGHT

SCALE : 1/4"=1'-0" | 4

1. STANDING SEAM METAL ROOFING
2. NOT USED
3. OVERHANG - SEE STRUCTURAL
4. TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0
5. WINDOW - SEE SCHEDULE SHEET N3.0
6. NOT USED
7. NOT USED
8. NOT USED
9. DOWNSPOUT SEE DETAIL 8/A5.1 FOR ATTACHMENT
10. ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 5 & 9/N4.0 - TYP
11. 5/8" PLYWOOD SIDING 303 FINISH - SEE A5.1
11A. 1x4 TRIM
11B. 22 GA. CORNER FLASHING
12. NOT USED
13. NOT USED
14. EXTERIOR LIGHT - SEE ELECTRICAL
15. NOT USED
16. NOT USED
17. NOT USED
18. GUTTER - SEE ATTACHMENT DETAIL 5/A2.2 AT STANDING SEAM ROOFING, OR 5/A2.5 AT SINGLE-PLY / BUILT-UP ROOFING
19. MODULAR IDENTIFICATION TAG - 90" ABOVE A.F.F.
20. NOT USED
21. WP/G.F.C.I. @ HVAC UNITS - REFER TO ELECTRICAL PLANS
22. DUAL SLOPE OPTION
23. HVAC UNIT
24. SHEET METAL FLASHING PAINTED BODY COLOR

KEYNOTES

PROJECT SPEC BUILDING SIZE	BUILDING	12'-0" MODULES	OVERALL SIZE
☐	24'x40'	2	23'-8 1/4"
☐	36'x40'	3	35'-6 1/2"
☐	48'x40'	4	47'-4 3/4"

BUILDING SIZE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK D. HOWARD
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

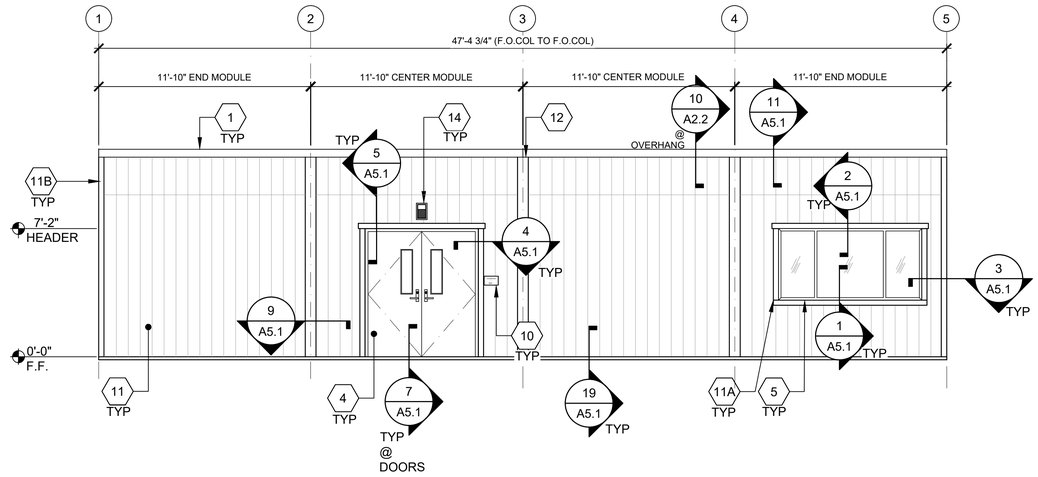
SHEET TITLE:

TYPICAL EXTERIOR ELEVATIONS- DURATEMP 303 SIDING OPTION

SHEET NUMBER:

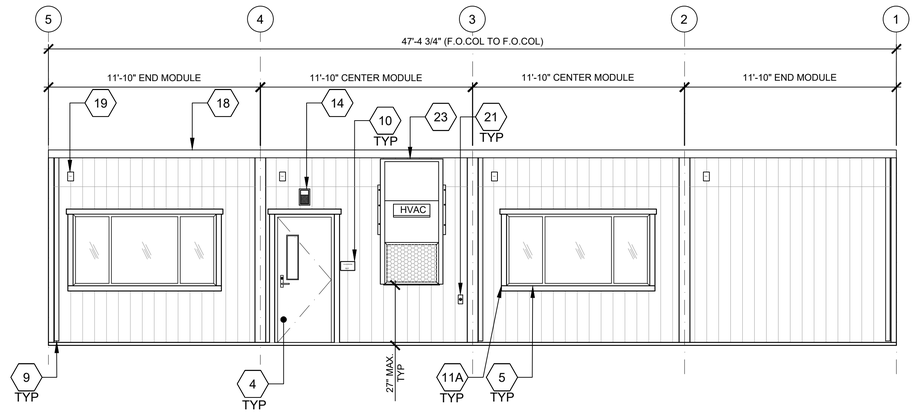
A5.0

D:\XXXX\ [illegible]



EXTERIOR ELEVATION - FRONT

SCALE : 1/4"=1'-0" | 1

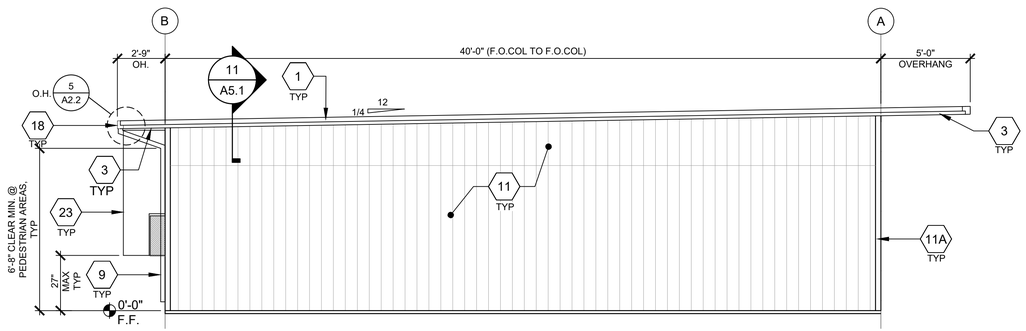


EXTERIOR ELEVATION - REAR

SCALE : 1/4"=1'-0" | 2

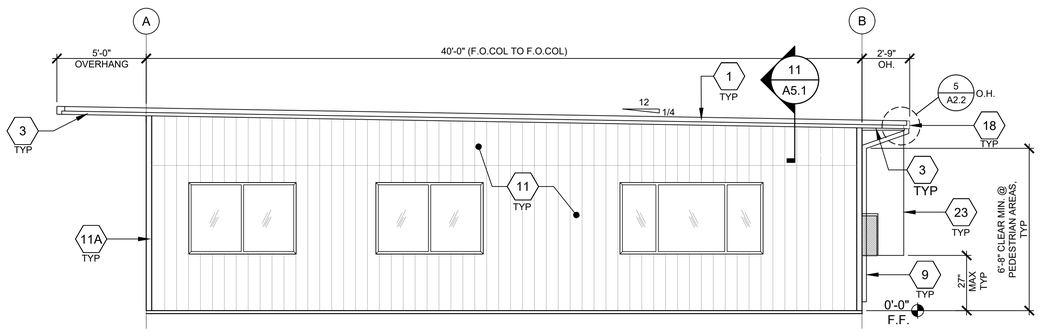
NOTES:

1. FOR ITEMS NOT NOTED, SEE "TYPICAL" ELEVATION SHOWN ABOVE.
2. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).
3. RAMP IS NOT SHOWN FOR CLARITY



EXTERIOR ELEVATION - LEFT

SCALE : 1/4"=1'-0" | 3



EXTERIOR ELEVATION - RIGHT

SCALE : 1/4"=1'-0" | 4

NOTES:

1. FOR ITEMS NOT NOTED, SEE "TYPICAL" ELEVATION SHOWN ABOVE.
2. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

1	STANDING SEAM METAL ROOFING
2	NOT USED
3	OVERHANG - SEE STRUCTURAL
4	TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0
5	WINDOW - SEE SCHEDULE SHEET N3.0
6	NOT USED
7	NOT USED
8	NOT USED
9	DOWNSPOUT SEE DETAIL 8/A5.1 FOR ATTACHMENT
10	ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 5 & 9/N4.0 - TYP
11	5/8" PLYWOOD SIDING 303 FINISH - SEE A5.1
11A	1x4 TRIM
11B	22GA CORNER FLASHING
12	1X8 TIRM
13	NOT USED
14	EXTERIOR LIGHT - SEE ELECTRICAL
15	NOT USED
16	NOT USED
17	NOT USED
18	GUTTER - SEE ATTACHMENT DETAIL 5/A2.2 AT STANDING SEAM ROOFING, OR 5/A2.5 AT SINGLE-PLY / BUILT-UP ROOFING
19	MODULAR IDENTIFICATION TAG 90" ABOVE A.F.F.
20	NOT USED
21	WP/G.F.C.I. @ HVAC UNITS - REFER TO ELECTRICAL PLANS
22	NOT USED
23	HVAC UNIT
24	NOT USED

KEYNOTES

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8 1/4"
☐ 36'x40'	3	1	35'-6 1/2"
☒ 48'x40'	4	2	47'-4 3/4"

BUILDING SIZE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CONNOR
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

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REVISIONS

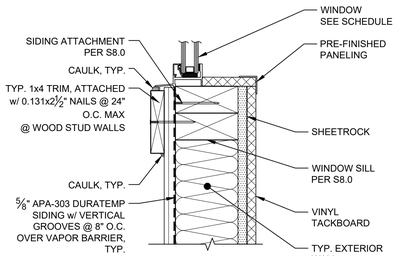
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	9/23/25
PROJECT NO:	1977-25

SHEET TITLE:

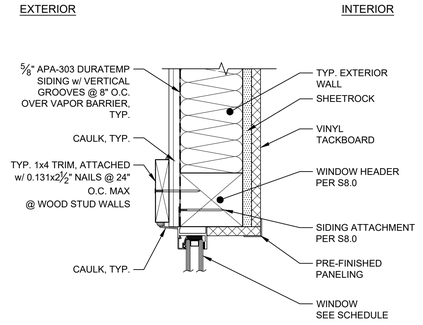
EXTERIOR
ELEVATIONS- DURATEMP
303 SIDING OPTION

SHEET NUMBER:

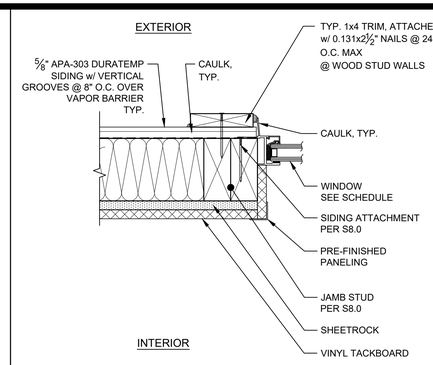
A5.0-N



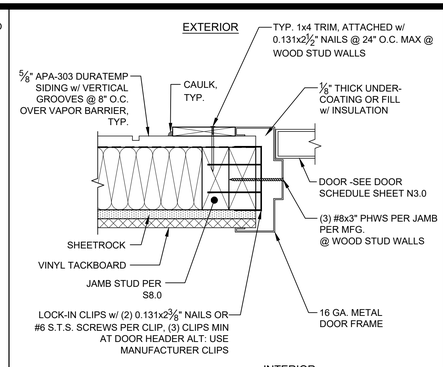
TYPICAL WINDOW SILL — SCALE: 3" = 1'-0" — 1



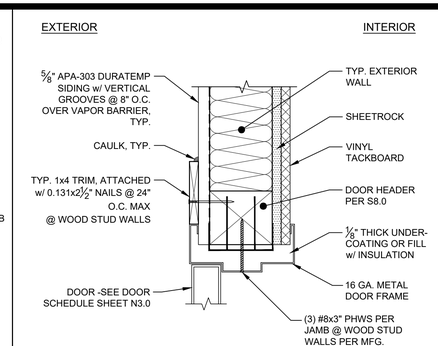
TYPICAL WINDOW HEADER — SCALE: 3" = 1'-0" — 2



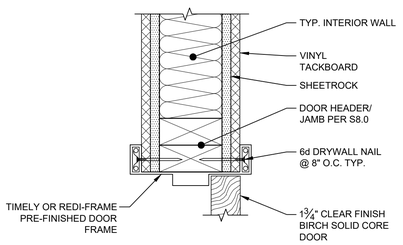
TYPICAL WINDOW JAMB — SCALE: 3" = 1'-0" — 3



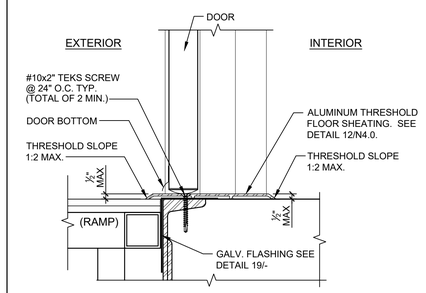
TYPICAL DOOR JAMB — SCALE: 3" = 1'-0" — 4



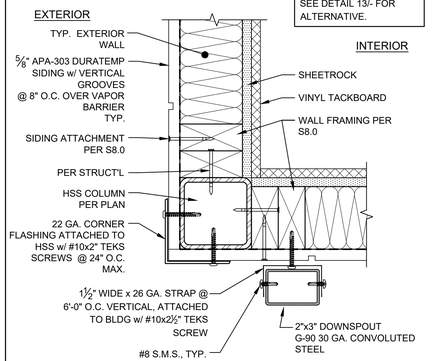
TYPICAL DOOR HEADER — SCALE: 3" = 1'-0" — 5



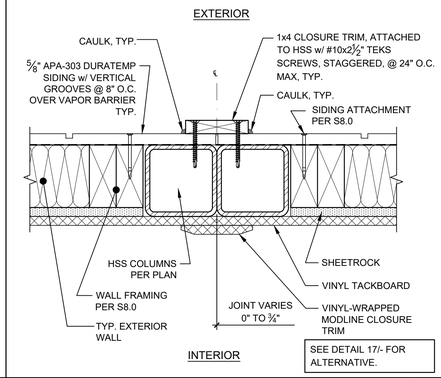
TYP. INTERIOR DOOR HEADER/JAMB — SCALE: 3" = 1'-0" — 6



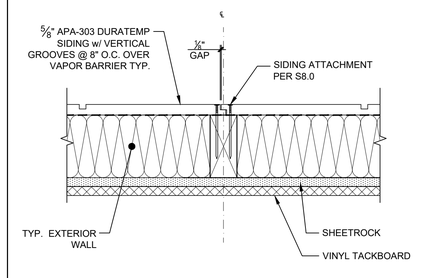
TYPICAL THRESHOLD DETAIL — SCALE: 3" = 1'-0" — 7



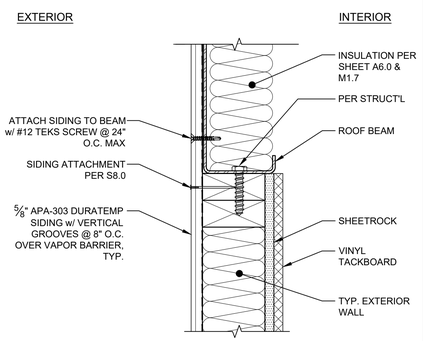
TYP. BLDG CORNER & DOWNSPOUT ATTACHMENT DETAIL — SCALE: 3" = 1'-0" — 8



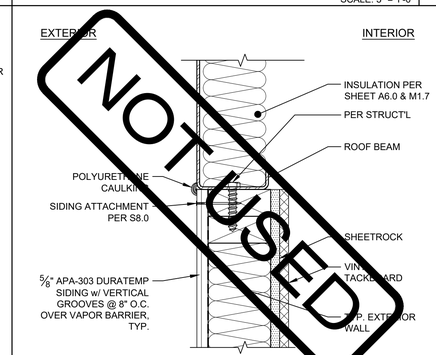
TYP. MODLINE CLOSURE DETAIL — SCALE: 3" = 1'-0" — 9



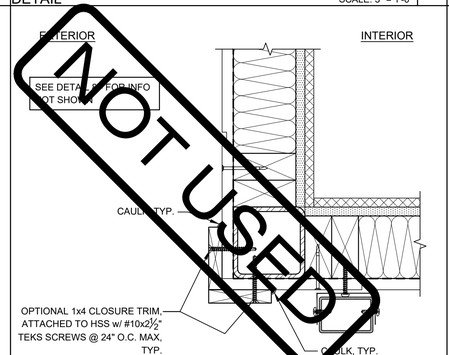
TYP. SIDING JOINT DETAIL — SCALE: 3" = 1'-0" — 10



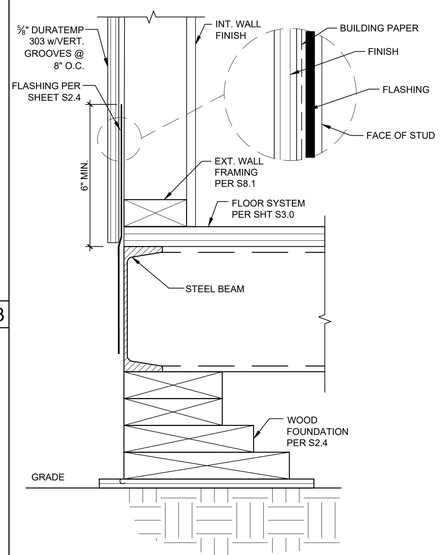
SIDING DETAIL @ ROOF BEAM — SCALE: 3" = 1'-0" — 11



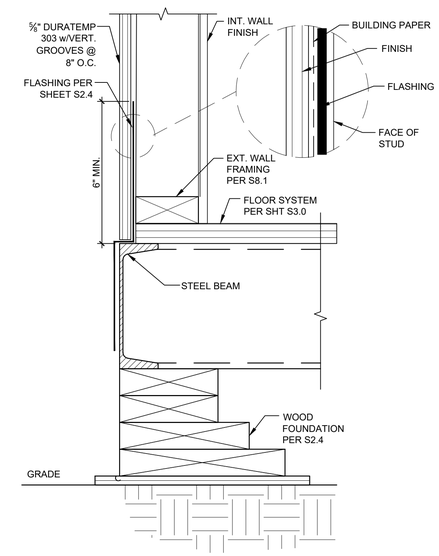
ALTERNATE SIDING @ ROOF BEAM — SCALE: 3" = 1'-0" — 12



ALTERNATE BUILDING CORNER DETAIL — SCALE: 3" = 1'-0" — 13



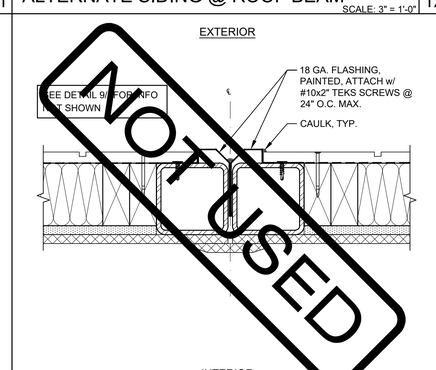
FLASHING/SIDING DETAIL @ FLOOR BEAM



ALTERNATE FLASHING/SIDING DETAIL @ FLOOR BEAM

1. REFER TO SHEET A6.0 FOR ALL BUILDING INSULATION INSTALLATION NOT SHOWN OR NOTED ON DETAIL ON THIS SHEET.
2. FLASHING SHALL BE PROVIDED PER DETAILS 10 & 19/-.
3. DURATEMP SPECIFICATIONS - 7', 8', 9' & 10' X 4' HARDBOARDS, GRADES APA & PS 1 SPECIFICATIONS - 4", 8" GROOVE PATTERNS. FLAME SPREAD INDEX OF 126.2 (ALLOWABLE 75-200). FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CBC SECTION 720. NAILING SHALL BE 0.131"Ø GALV. NAILS @ 6" O.C. E.N. AND 12" O.C. F.N. (ALL EDGES BLOCKED)

SHEET NOTES



ALTERNATE MODLINE CLOSURE DETAIL — SCALE: 3" = 1'-0" — 17

NOT USED — SCALE: 3" = 1'-0" — 18

FLASHING DETAIL — SCALE: 3" = 1'-0" — 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK GAVIN LAWLER — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

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REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

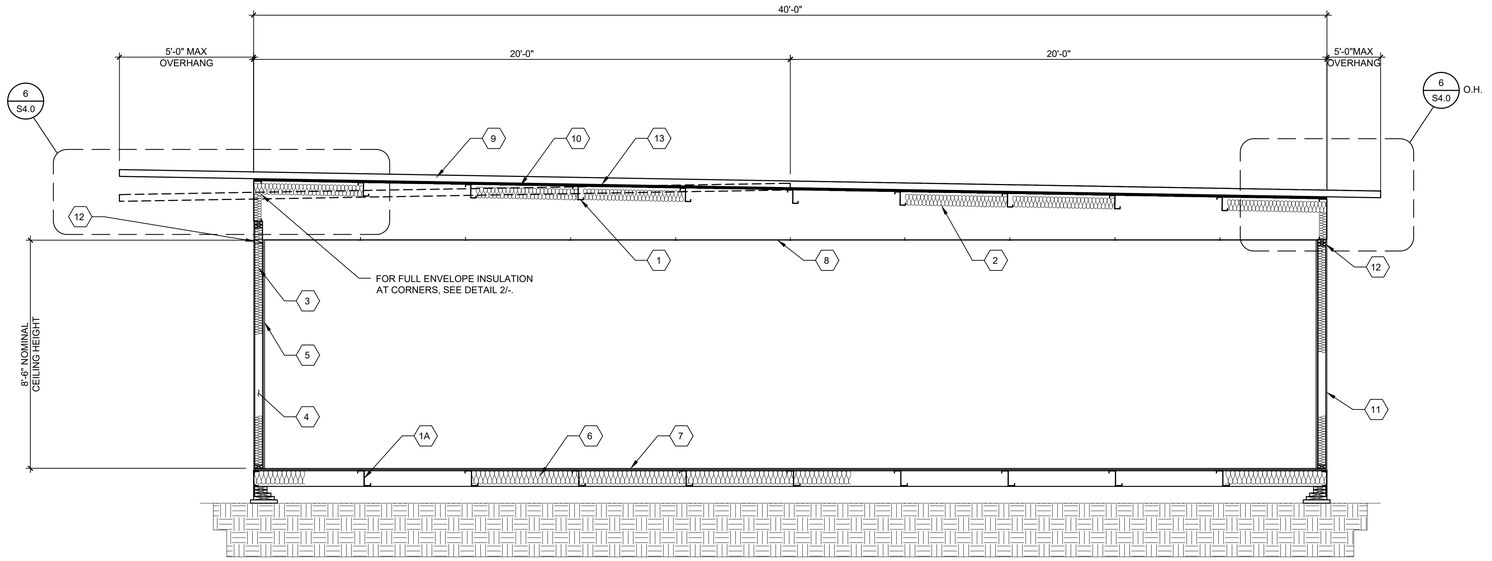
SHEET TITLE:

TYP. ARCHITECTURAL DETAILS
- DURATEMP 303
SIDING OPTION

SHEET NUMBER:

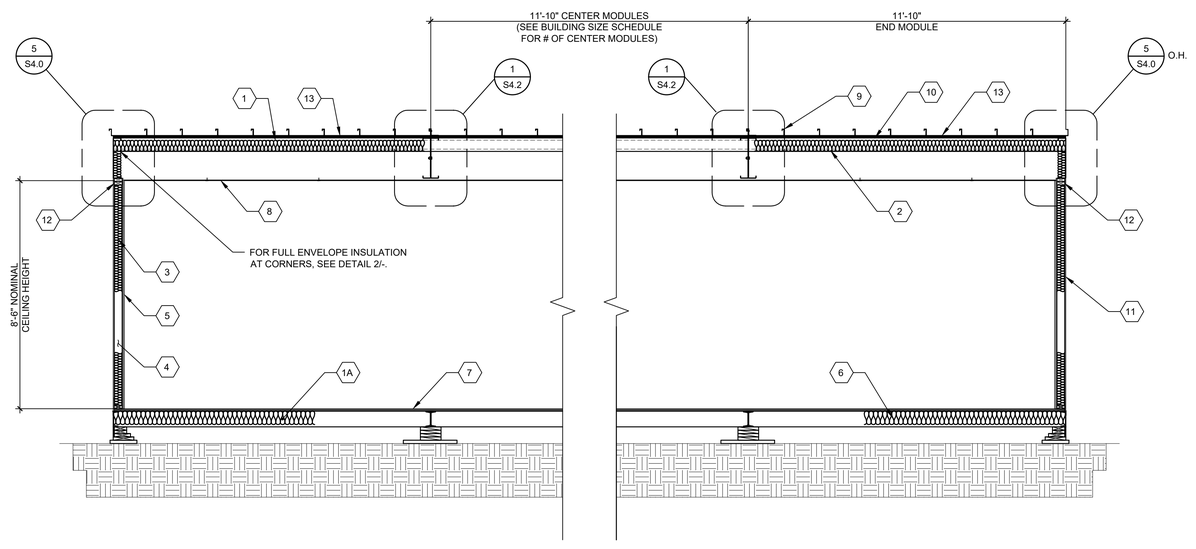
A5.1

G:\XXXX-21 (#+#)\ARCH\DWG\[A5.1(#+#)].dwg 10/26/2023 8:56:59 AM PDT\\AMS-SVR-02\Shared\Projects\2023\03\23-0312 2GO (HIGH SEISMIC) 48' MODULE\ARCH\DWG\[A5.1(#+#)].dwg



TYP. LONGITUDINAL SECTION - MONO/DUAL PITCH

SCALE: 3/8"=1'-0" | A



TYP. TRANSVERSE SECTION - MONO/DUAL PITCH

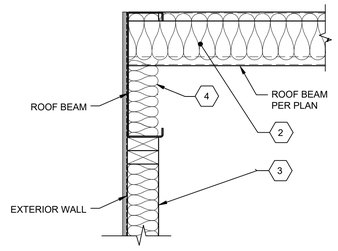
SCALE: 3/8"=1'-0" | B

1 ROOF PURLINS PER ROOF FRAMING PLAN
1A FLOOR JOISTS PER FLOOR FRAMING PLAN
2 BATT ROOF INSULATION PER SHEET M1.7
3 WALL FRAMING PER SHEETS S8.0
4 WALL INSULATION PER SHEET M1.7
5 VINYL FABRIC OVER TACKABLE BRACING PANELS
6 BATT FLOOR INSULATION PER SHEET M1.7 (PLYWOOD FLOOR ONLY)
7 PLYWOOD FLOOR PER SHEET S3.0
8 SUSPENDED T-BAR CEILING PER M1.0
9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
10 STEEL CROSS BRACING WITHOUT RIGID ROOF INSULATION (S4.0)
11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
12 FIRE BLOCKING @ CEILING LEVEL PER CBC 718.2
13 RIGID INSULATION SEE TABLE ON SHEET M1.7A

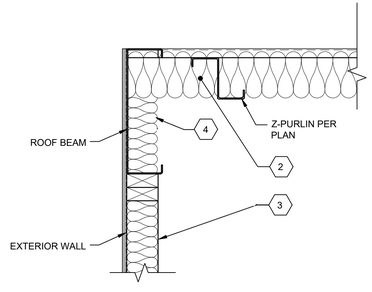
KEY NOTES

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8 1/4"
☐ 36'x40'	3	1	35'-6 1/2"
☒ 48'x40'	4	2	47'-4 3/4"

BUILDING SIZE SCHEDULE



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" | 1



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" | 2

IDENTIFICATION STAMP
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APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

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SITE SPECIFIC PROJECT NAME

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APP: 04-122043 PC
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DATE: 10/26/2023

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK CONNOR
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

TYPICAL LONGITUDINAL AND TRANSVERSE BUILDING SECTIONS

SHEET NUMBER:

A6.0

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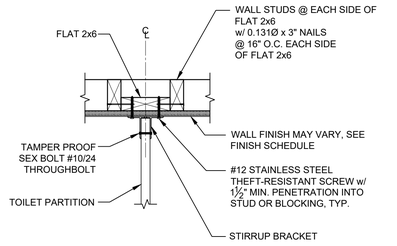
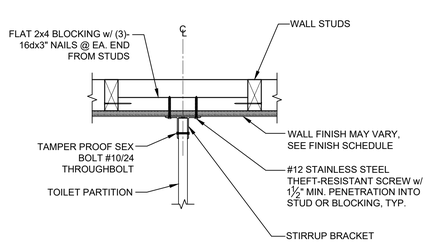
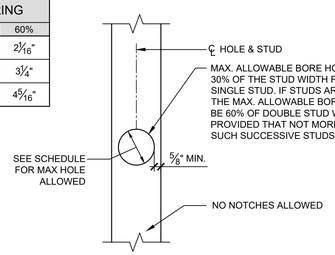


WOOD STUDS
OPTION No. 1

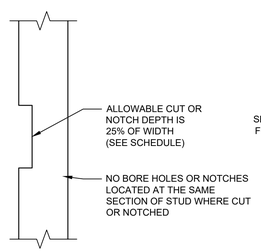


WOOD STUDS
OPTION No. 2

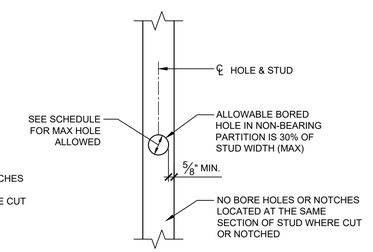
NOTCH & BORING SCHEDULE					
	STUD WIDTH		NOTCHING	BORING	
SIZE	NOMINAL	ACTUAL	25%	30%	60%
2x4	4"	3½"	7/8"	1"	2 1/16"
2x6	6"	5½"	1 3/8"	1 5/8"	3¼"
2x8	8"	7¼"	1 13/16"	2⅛"	4 5/16"



EXTERIOR WALL
BORING



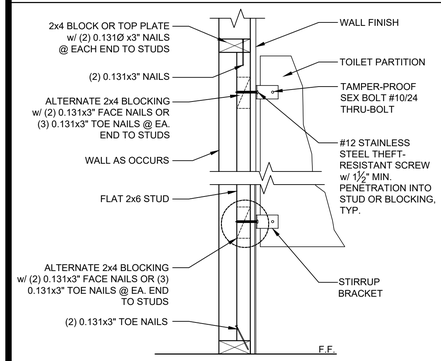
INTERIOR WALL
NOTCHING



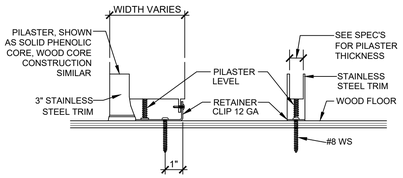
INTERIOR WALL
BORING

TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL

SCALE: 1-1/2" = 1'-0" | 1



TOILET PARTITION WALL BLOCKING
NOT TO SCALE | 3

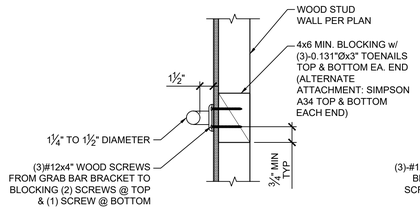


PARTITION TO WOOD FLOOR
NOT TO SCALE | 4

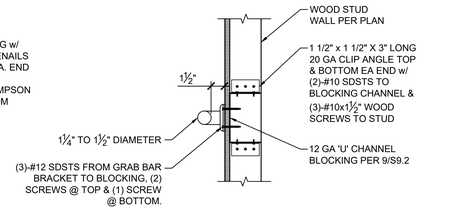
NOT USED
5

STUD NOTCHING AND BORING DETAILS

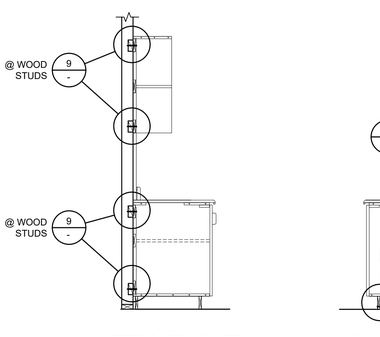
NOT TO SCALE | 2



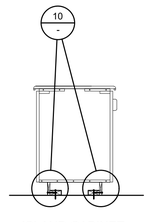
TYPICAL GRAB BAR
BLOCKING DETAIL



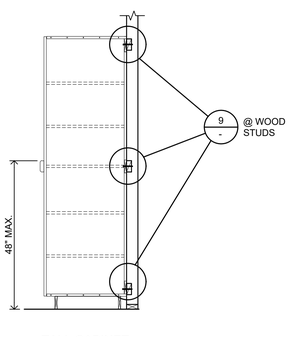
ALTERNATE GRAB BAR
BLOCKING DETAIL



UPPER/BASE CABINET

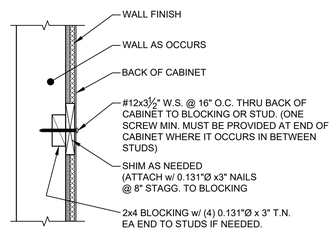


ISLAND CABINET



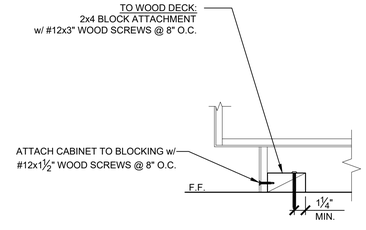
TALL CABINET

TYP. CABINET ATTACHMENT
NOT TO SCALE | 8



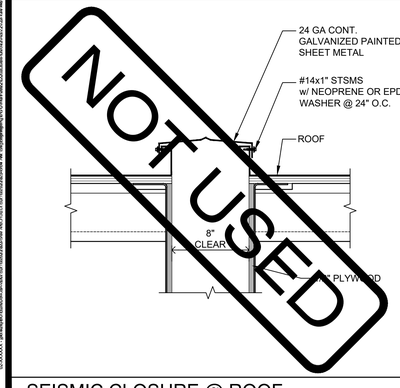
SCALE: 1-1/2" = 1'-0"

CABINET ATTACHMENT @ WOOD STUDS
9

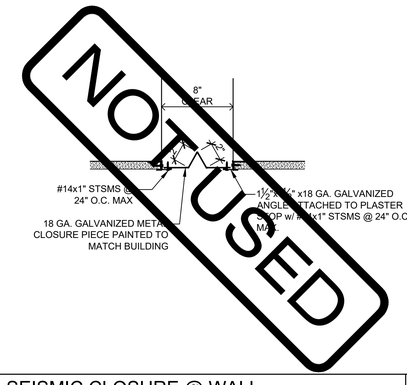


CABINET ATTACHMENT @ FLOOR
SCALE: 1-1/2" = 1'-0" | 10

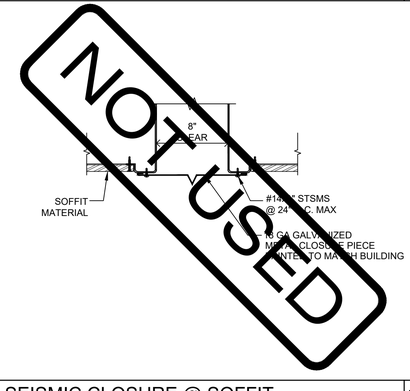
NOT USED
11



SEISMIC CLOSURE @ ROOF
12



SEISMIC CLOSURE @ WALL
13



SEISMIC CLOSURE @ SOFFIT
14

GRAB BAR BLOCKING DETAIL
SCALE: 1-1/2" = 1'-0" | 6

NOT USED
15

NOT USED
16

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DATE: 01/14/2026

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LICENSED ARCHITECT
PATRICK D. MAHAN
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

MISCELLANEOUS
ARCHITECTURAL DETAILS

SHEET NUMBER:

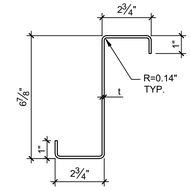
A7.1

D:\XXXX\ [illegible]

NOT USED 1

NOT USED 2

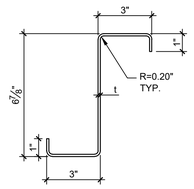
NOT USED 3



6-7/8" x2-3/4" x14 GA. FLOOR JOIST

ASTM A1011 SS GRADE 45
F_Y = 45KSI

A = 0.98 IN^2
Sx = 2.10 IN^3
Ix = 7.22 IN^4
t = 0.068 IN. MIN.
(0.0713 IN. DESIGN)



6-7/8" x3" x12 GA. FLOOR JOIST

ASTM A1011 SS GRADE 45
F_Y = 45KSI

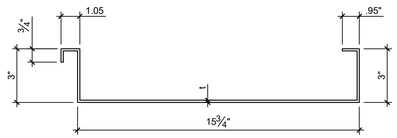
A = 1.43 IN^2
Sx = 3.06 IN^3
Ix = 10.54 IN^4
t = 0.097 IN. MIN.
(0.1017 IN. DESIGN)

LIGHT GAUGE FLOOR JOIST PROPERTIES 5

1504.4.2 STRUCTURAL METAL PANEL ROOF SYSTEMS:
WHERE THE METAL ROOF PANEL FUNCTIONS AS THE ROOF DECK AND ROOF COVERING AND IT PROVIDES BOTH WEATHER PROTECTION AND SUPPORT FOR LOADS, THE STRUCTURAL METAL PANEL ROOF SYSTEM SHALL COMPLY WITH THIS SECTION. STRUCTURAL STANDING-SEAM METAL PANEL ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592 OR FM 4474. STRUCTURAL THROUGH FASTENED METAL PANEL ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592, FM 4474 OR UL 580.

EXCEPTIONS:
1. METAL ROOFS CONSTRUCTED OF COLD-FORMED STEEL SHALL BE PERMITTED TO BE DESIGNED AND TESTED IN ACCORDANCE WITH THE APPLICABLE REFERENCED STRUCTURAL DESIGN STANDARD IN SECTION 2210.1.

TESTING REPORT:
TWINNING TEST REPORT #226045.R1 UL 1897



w/ GALVANIZATION
t=0.0356 IN. MIN.

w/0 GALVANIZATION
t=0.0329 IN. MIN.
(0.035 IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

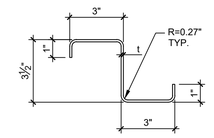
Sx(t) = 0.364 IN^3 Sx(t) = 0.330 IN^3
Sx( ) = 1.371 IN^3 Sx( ) = 0.306 IN^3
Ix = 0.863 IN^4 Ix = 0.476 IN^4
Ae = 0.259 IN^2

ASTM A1011 SS, GRADE 36
Fy = 36 ksi

A = 0.844 IN^2
Sx(t)= 0.418 IN^3
Sx( )= 1.412 IN^3
Ix = 0.968 IN^4

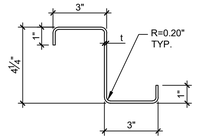
20 GA. GALVANIZED ROOF PAN PROPERTIES 7

NOT USED 8



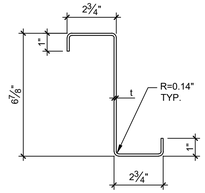
10 GA. ROOF PURLIN

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
A = 1.31 IN^2
Sx = 1.51 IN^3
Ix = 2.64 IN^4
t = 0.129 IN. MIN.
(0.1345 IN. DESIGN)



12 GA. ROOF PURLIN

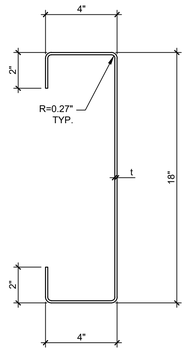
ASTM = A1011 SS
GRADE = 45
Fy = 45ksi
A = 1.16 IN^2
Sx = 1.63 IN^3
Ix = 3.46 IN^4
t = 0.097 IN. MIN.
(0.1017 IN. DESIGN)



14 GA. ROOF PURLIN

ASTM = A1011 SS
GRADE = 45
Fy = 45ksi
A = 0.98 IN^2
Sx = 2.10 IN^3
Ix = 7.22 IN^4
t = 0.068 IN. MIN.
(0.0713 IN. DESIGN)

LIGHT GAUGE ROOF PURLIN PROPERTIES 10



10 GA LONGITUDINAL AND TRANVERSE BEAM

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.129 IN. MIN.
(0.1345 IN. DESIGN)

GROSS SECTION PROPERTIES	
BEAM DEPTH	18"
A (IN^2)	3.88
S_X MIN. (IN^3)	19.307
I_X MIN. (IN^4)	173.77

LIGHT GAUGE ROOF BEAM PROPERTIES 18

NOT USED 14

NOT USED 15

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
3. LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.
4. TESTING REPORT TWINING TEST REPORT @226045.R1 SUES UL 1897 IN LIEU OF UL 580 OR ASTM E1592.

SHEET NOTES 19

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

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SITE SPECIFIC PROJECT NAME

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK C. HOWE
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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REVISIONS

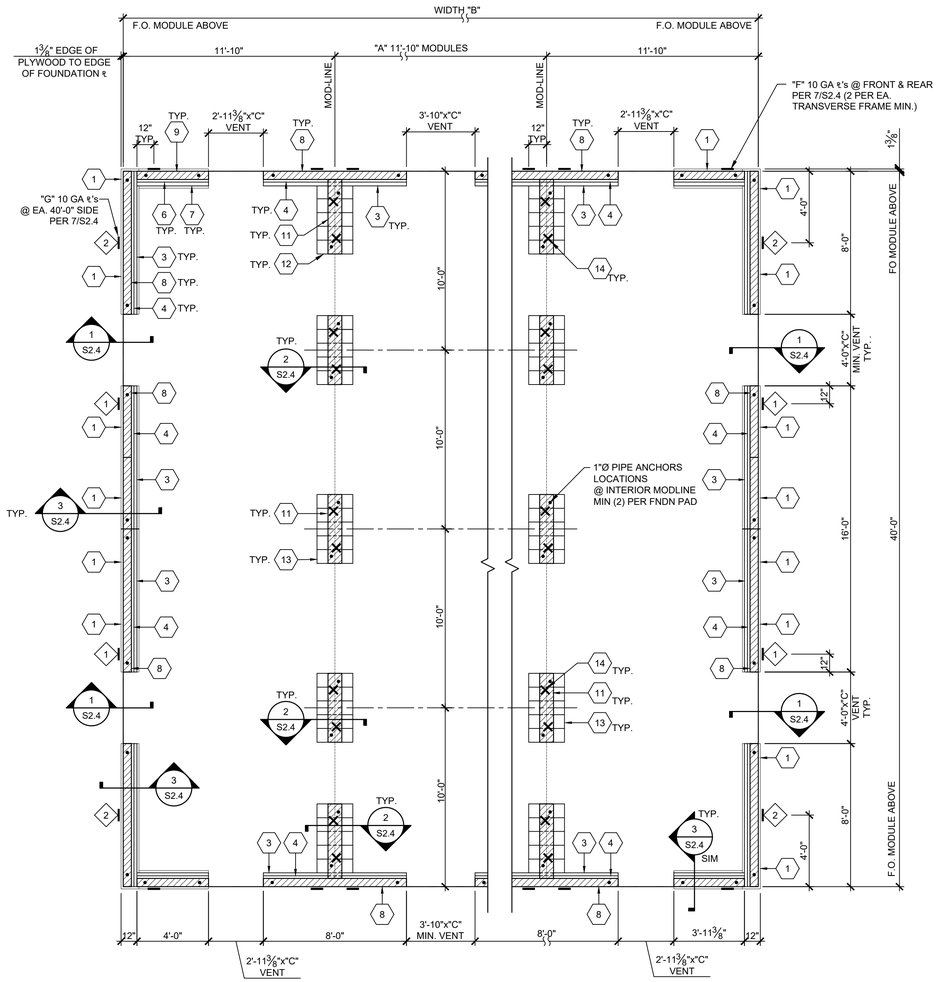
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:
LIGHT GAUGE STEEL MEMBER PROPERTIES

SHEET NUMBER:
S0.0

G:\XXXX\X_(64)\ACAD\S\S0.0_(S0.0)(S0.0)(1).DWG 10/26/2023 8:54:04 AM PLOTTED BY: Aaron Aguilera

REAR



FRONT

WOOD FOUNDATION PLAN (PLYWOOD FLOOR) 50 P.S.F LIVE LOAD 15 PSF PARTITION LOAD

SCALE: 1/4"=1-0"

	BUILDING SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL FOUNDATION WIDTH	TOTAL FLOOR AREA (FT^2)	NET FREE VENT AREA REQ'D (FT^2)	"C" MINIMUM HT OF VENTS (IN)	NET FREE VENT AREA PROVIDED @ 0.73 CLR COVERAGE PER SHEET NOTES (FT^2)	"D" GALV. NAIL O.C. SPACING (IN) (40' WALLS) SEE 3/S2.4	"E" GALV. NAIL O.C. SPACING (IN) ("B" WALLS) SEE 3/S2.4	"F" # OF 10 GA. SHEAR ℄'S @ FRONT & REAR SEE 3/2.4	"G" # OF 10 GA. SHEAR ℄'S @ SIDES (40' WALLS) SEE 3 & 7/S2.4		"H" EDGE NAIL (EN) SPACING (IN) (40' WALLS) SEE 3/S2.4	"J" EDGE NAIL (EN) SPACING (IN) ("B" WALLS) SEE 3/S2.4	"K" # OF ALT. SHEAR ℄'S @ "B" WALLS (2 PER MOD MIN.) SEE 5/S2.4	"L" GALV. NAIL O.C. SPACING (IN) (MODLINES) SEE 2/S2.4
												# OF ℄'S	℄ LOCATIONS				
☐	24'x40'	2	0	23'-8 1/4"	960	6.4	4.5	7.6	12	6	4/SIDE	4/SIDE	1 2	6	3	5/SIDE	9
☐	36'x40'	3	1	35'-6 1/2"	1440	9.6	4.5	9.7	12	6	6/SIDE	4/SIDE	1 2	6	3	7/SIDE	9
☒	48'x40'	4	2	47'-4 3/4"	1920	12.8	6.0	15.7	12	8	8/SIDE	4/SIDE	1 2	6	4	9/SIDE	9

MODULE SCHEDULE - 48' x 40' MAX

1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION WOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. PER THE CONTRACT OF THIS PROJECT- THE BUILDING PAD MUST BE A MINIMUM OF 38'-0" FRONT TO REAR, BUILDING WIDTH PLUS 6'-0" SIDE TO SIDE AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
6. PROJECT ARCHITECT SHOULD VERIFY THE NET AREA OF THE VENT COVER BE EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED SHOWN ON THE TABLE.
7. VENT NET AREA REQUIRED (NFA) IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL VENT GROSS OPEN AREA WITH A MINIMUM REDUCTION PERCENTAGE OF 73% DUE TO THE VENT COVER.

SHEET NOTES

FOUNDATIONS:

ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 2022 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (U1 & T1). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HF#2 OR DF#2 "FOR ABOVE GROUND USE." THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPA STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS. U1 AND T1 MATERIAL SHALL BE BANDED SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL. CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED. INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

A VAPOR RETARDING MOISTURE BARRIER SHALL BE INSTALLED UNDER THE FLOOR WHEN THE BUILDING IS INSTALLED LESS THAN 12" ABOVE THE SOIL. A BARRIER IS NOT REQUIRED AT HEIGHT IF THE BUILDING IS INSTALLED OVER CONCRETE (INCLUDING A RAT SLAB) OR A/C/ PAVING.

1. ½" x 12" WIDE x 48" LONG PT STRUCTURAL PLYWOOD WITH FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
2. NOT USED
3. SINGLE PT 2 x 10 x 8'-0" LONG ℄
4. SINGLE 2 x 8 x 8'-0" LONG
5. NOT USED
6. SINGLE 2 x 8 x 4'-0" LONG ℄
7. SINGLE 2 x 10 x 4'-0" LONG ℄
8. MULTIPLE 2 x 6 x 8'-0" LONG NAILER AS REQ'D FOR HEIGHT
9. MULTIPLE 2 x 6 x 4'-0" LONG NAILER AS REQ'D FOR HEIGHT
10. NOT USED
11. 2 x 10 BLKG, SEE 2/S2.4
12. (5) 2x12x2'-0" PT ℄ OR (7) 2x10x2'-0" PT ℄ OR (8) 2x8x2'-0" PT ℄, SEE 2/S2.4
13. (5) 2x12x2'-0" PT ℄ OR (6) 2x10x2'-0" PT ℄ OR (7) 2x8x2'-0" PT ℄, SEE 2/S2.4
14. ✕ LOCATION OF FLOOR BEAM ATTACHMENT TO ISOLATED PAD. REFER TO DETAIL 2/S2.4

- 1"Ø GALVANIZED PIPE LOCATIONS - TYPICAL. MINIMUM (2) PER FNDN SECTION AT "B" WALLS, 40' WALLS & MODLINES AS SHOWN ON PLAN

KEY NOTES

ON SOIL:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL SURFACE @ 10'-0" O.C., MIN. 2 EA. 2x ℄. DRILL SILL 1⅜"Ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ON A/C PAVING:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" O.C., MIN. 2 EA 2x ℄. DRILL SILL 1⅜"Ø MAX.

ON CONC PAVING:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE w/ 12" MIN, PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" O.C., MIN. 2 EA. 2x ℄. DRILL SILL 1⅜"Ø MAX.
ALT: SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2'S THRU SILL ℄ w/ MIN. CONC. EMBEDMENT PER SCHEDULE BELOW
(PROVIDE A MINIMUM OF 2 BOLTS AT 2x PLATE LESS THAN 5'-0" AND 4 BOLTS AT 2x PLATE LARGER THAN 5'-0").
ANCHOR BOLTS SHALL BE CENTERED ON THE 2x PLATES AND LOCATED NO CLOSER THAN 4" FROM THE END OF THE PLATES.

SIMPSON SS STRONG-BOLT 2 O.C. SPACING SCHEDULE (IN.)			
BUILDING SIZE	MAX. LONGITUDINAL SPACING @ 40' SIDEWALLS	MAX. LONGITUDINAL SPACING @ MODLINES	MAX. TRANSVERSE SPACING
☐ 24'x40'	80	24	23
☐ 36'x40'	78	23	21
☒ 48'x40'	80	23	25

ANCHOR TYPE	SIMPSON SS STRONG-BOLT 2 ICC ESR-3037
ANCHOR SIZE (IN.)	½"Ø
MIN. CONC. THICKNESS (IN.)	4½"
MIN. NOMINAL EMBED (IN.)	2¾"
MIN. HOLE DEPTH (IN.)	3"
MIN. CONC. EDGE DISTANCE - ANY DIRECTION (IN.)	6½"
INSTALLATION TORQUE (FT-LB)	65

1. TORQUE TEST PER CBC 1910A.5 TORQUE TEST - MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE AS APPROVED IN AN ICC-ESR PER C.B.C 1910A.5

SILL RESTRAINT

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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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LICENSED ARCHITECT PATRICK GRANT HOWARD No. C12631 Ren. 3-31-25 STATE OF CALIFORNIA

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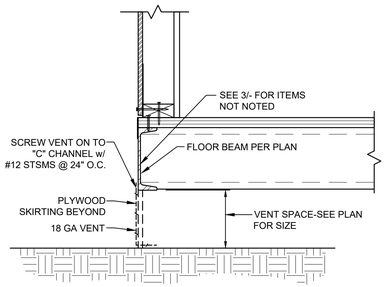
REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

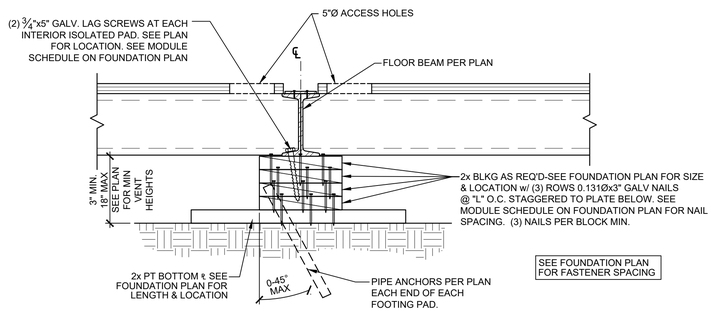
SHEET TITLE:
WOOD FOUNDATION PLAN
50 PSF LIVE LOAD 15 PSF
PARTITION LOAD

SHEET NUMBER:
S2.1

S2.XXXX - [redacted] 8/28/2025 2:56:46 PM [redacted]



FOUNDATION DETAIL — SCALE: 1 1/2"=1-0" — 1



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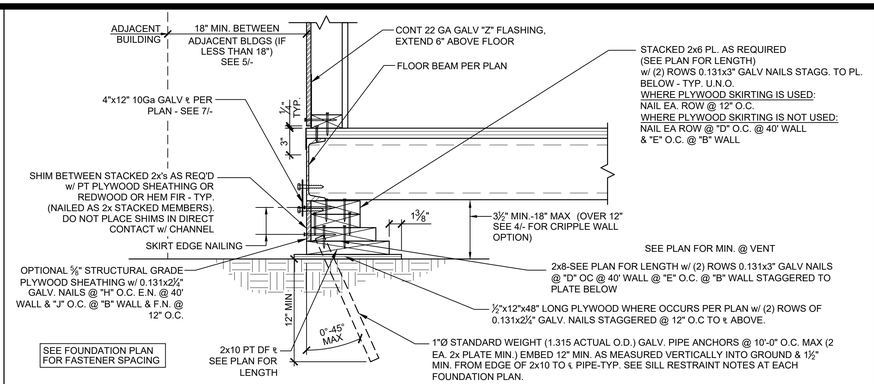

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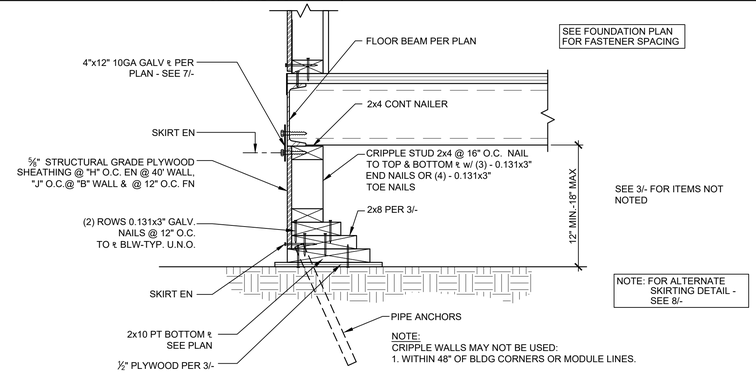

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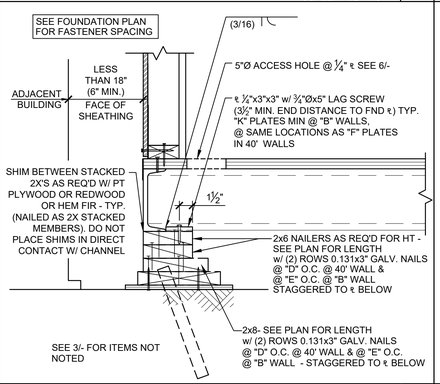

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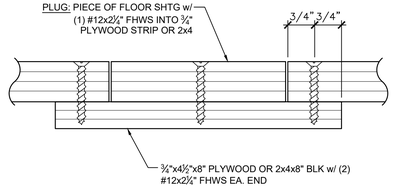
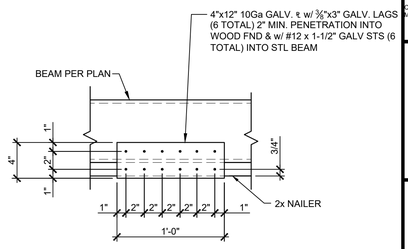
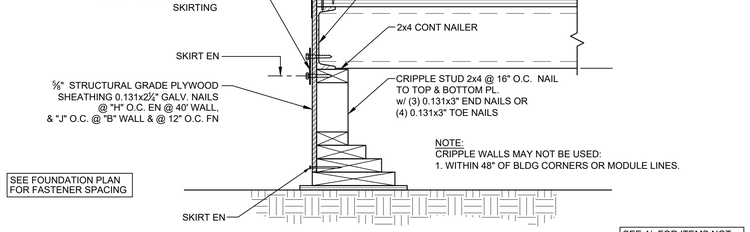


FILLER ACCESS HOLE DETAIL — SCALE: 1 1/2"=1-0" — 6



FOUNDATION DETAIL — SCALE: 1 1/2"=1-0" — 7



ALTERNATE SKIRTING DETAIL — SCALE: 1 1/2"=1-0" — 8

NOT USED — 9

NOT USED — 10

NOT USED — 11

NOT USED — 12

NOT USED — 13

NOT USED — 14

NOT USED — 15

NOT USED — 16

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LICENSED ARCHITECT — KEVIN PATRICK GILLESPIE — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

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REVISIONS

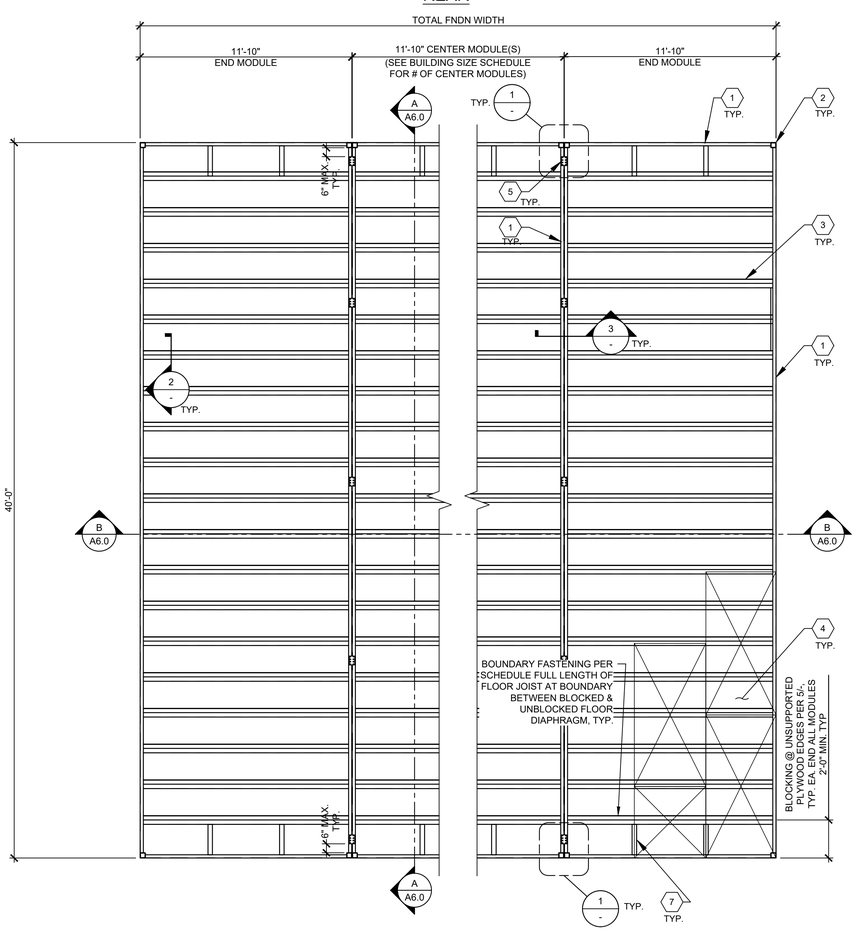
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

WOOD FOUNDATION DETAILS

SHEET NUMBER:

S2.4



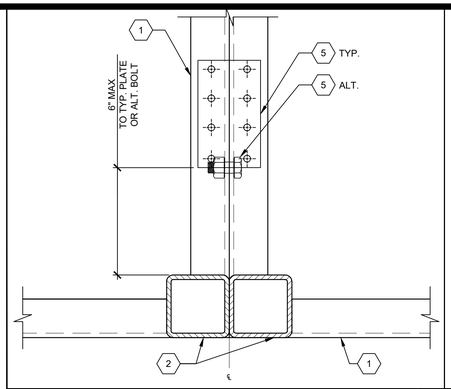
FLOOR JOIST SCHEDULE		
LIVE LOAD PSF	14 GA. JOIST	12 GA. JOIST
☐ 50 PSF	24" O.C.	24" O.C.
☒ 50 15 PSF	24" O.C.	24" O.C.
☐ 100 PSF	24" O.C.	24" O.C.

14GA OR 12GA JOISTS CAN BE USE BASED OF MATERIAL AVAILABILITIES

NOTE: FOR SECTION PROPERTIES - SEE S0.0

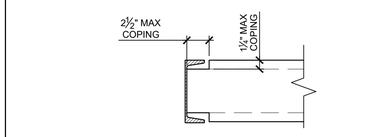
FRAMING PLAN (PLYWOOD FLOOR) A

SCALE : 1/4" = 1'-0"

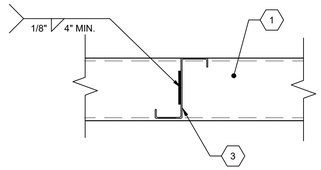


TYP. FLOOR BEAMS CONNECTION 1

SCALE : 3" = 1'-0"



TYP FLOOR JOIST COPING



TYP. JOIST ATTACTMENT TO BEAM 2

SCALE : 3" = 1'-0"

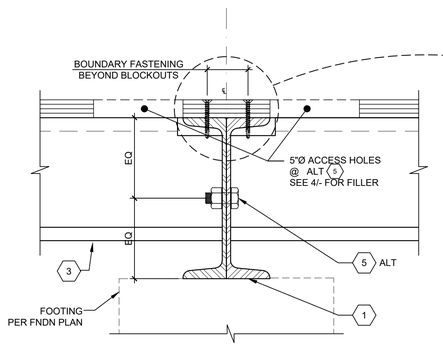
1. FLOOR BEAM PER SHEET S5.0. USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.
2. HSS COLUMN PER SHEET S5.0
3. FLOOR JOIST - SEE SCHEDULE
4. 1⅛" T&G PLYWOOD FLOOR SHTG STURDI-I-FLOOR 48" O.C. SPAN RATING EXP. 1 CONFORMING TO PS 1-19, 2 SPANS MIN. OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-19. STAGGER SHEETS 48" O.C. AS SHOWN w/ FACE GRAIN PERPENDICULAR TO FLOOR JOISTS. FASTEN PER SCHEDULES.
5. PLATE ⅛"x3½"x6" @ 10'-0" O.C. MAX w/ (8) #12x1" SDSTS SEE DETAIL 3/-. ALTERNATE: ½"Øx1½" MB @ 10'-0" O.C. MAX AND 6" MAX FROM EACH END OF MODULE. BOLT Ø $\pm\frac{1}{16}$" MAX HOLE THRU CHANNELS SEE DETAIL 3/-.
6. NOT USED
7. 2 ¾"x2 ¾"x 14Ga. BLOCKING ANGLE PER DETAIL 5/-, AT UNSUPPORTED PLYWOOD EDGES WHERE SPECIFIED ON THE FLOOR FRAMING PLAN.

KEY NOTES

1. NOT USED
2. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
3. SDSTS PER ASTM C1513 AND ICC ESR-1976 (OR EQUAL)
4. ET&F PINS PER IAPMO REPORT ER-335

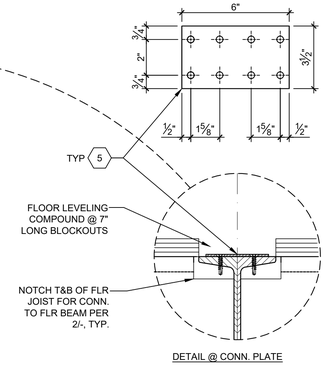
GENERAL NOTES

PLUG: PIECE OF FLOOR SHTG w/ (1)-#12x2¼" FHWS INTO ¾" PLYWOOD STRIP OR 2x4



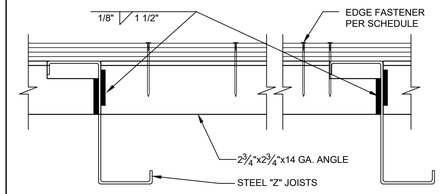
TYP. BEAM TO BEAM CONNECTION 3

SCALE : 3" = 1'-0"



TYP. ACCESS HOLE FILLER 4

SCALE : 3" = 1'-0"



OPTIONAL BLOCKING ANGLE ATTACHMENT 5

SCALE : 3" = 1'-0"

NOT USED 6

NOT USED 7

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8 1/4"
☐ 36'x40'	3	1	35'-6 1/2"
☒ 48'x40'	4	2	47'-4 3/4"

BUILDING SIZE SCHEDULE

TYP. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING	EDGE FASTENING	FIELD FASTENING
12- 24x2" SDSTS	0.144"Øx2" ET&F PINS	0.144"Øx2" ET&F PINS
6" O.C.	6" O.C.	12" O.C.

BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS

TYPICAL FASTENER SPACING SCHEDULE

ALT. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING	EDGE FASTENING	FIELD FASTENING
12- 24x2" SDSTS	#10 OR #12x2¼" SDSTS	#10 OR #12x2¼" SDSTS
6" O.C.	6" O.C.	12" O.C.

BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS

ALTERNATE FASTENER SPACING SCHEDULE

NOT USED

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LICENSED ARCHITECT
PATRICK GRAHAM
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

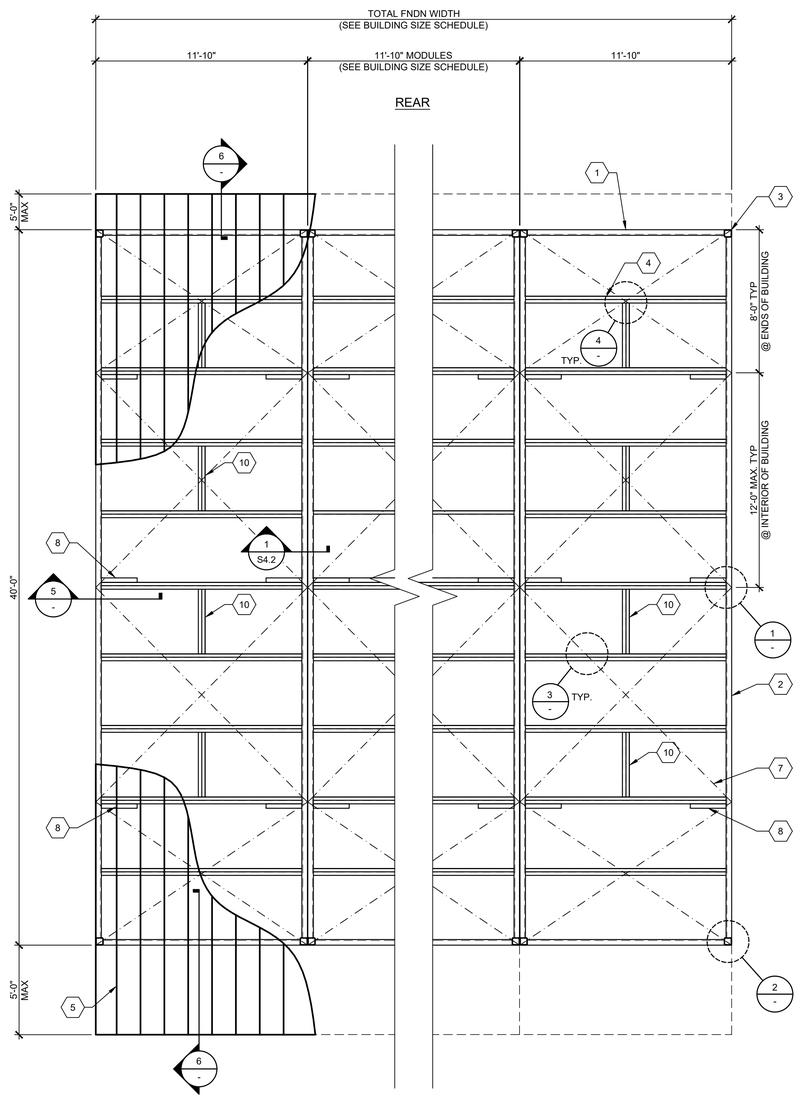
SHEET TITLE:

FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR

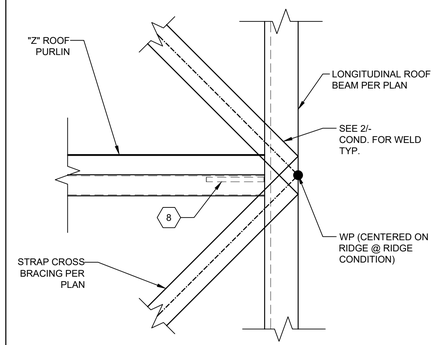
SHEET NUMBER:

S3.0

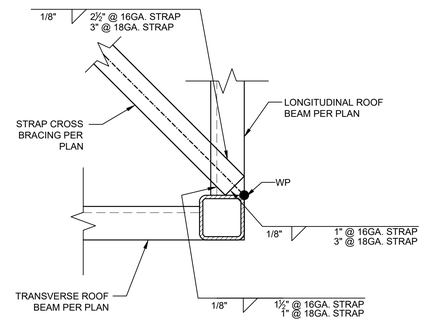
G:\XXXX-_Shed\Shed\SS\Public\SS\SS\SS\SS\Shed Plan Sheets\S3.0 FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR.dwg 10/26/2023 8:08:08 AM AA



TYPICAL ROOF FRAMING LAYOUT — SCALE: 1/4"=1'-0" — A

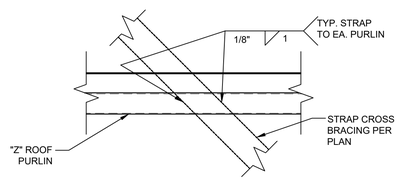


TYP. CROSS BRACING DETAILS — SCALE: 1 1/2"=1'-0" — 1



SEE NOTE #5 OF GENERAL NOTES

TYP. CROSS BRACING DETAILS — SCALE: 1 1/2"=1'-0" — 2

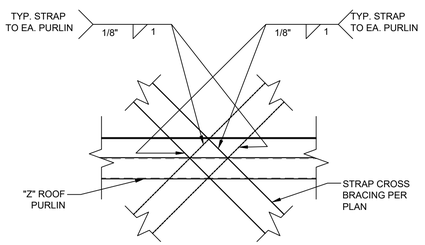


SEE NOTE #5 OF GENERAL NOTES

TYP. CROSS BRACING DETAILS — SCALE: 1 1/2"=1'-0" — 3

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S8.0 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S8.0 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/NEOPRENE WASHERS.
5. MAX FILLET WELD SIZE SHALL BE EQUAL TO THE THICKNESS OF THE THINNER SHEET STEEL (AWS D1.3, SECTION 2.3.3)

GENERAL NOTES

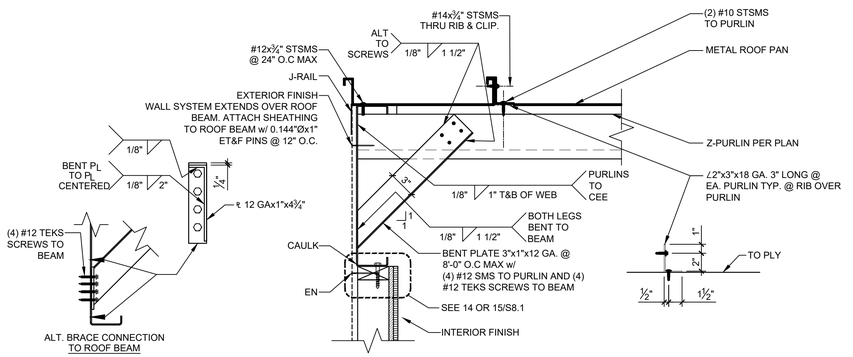


SEE NOTE #5 OF GENERAL NOTES

TYP. CROSS BRACING DETAILS — SCALE: 1 1/2"=1'-0" — 4

KEY NOTES

1. TRANSVERSE ROOF BEAM FOR SIZE, SEE S0.0.
2. LONGITUDINAL ROOF BEAM FOR SIZE, SEE S0.0.
3. HSS COLUMN PER SHEET S5.0.
4. ROOF PURLINS @ 48" O.C. MAX. -SEE SHEET S0.0
5. METAL ROOF PAN - SEE SHEET S0.0.
6. NOT USED
7. 2"x16 GA. STRAP CROSS BRACING GRADE 50 ALTERNATE: CROSS BRACING 3"x18 GA. GRADE 50 NOTE: FLAT STRAP SHALL BE PULLED TAUT, ELIMINATING ANY SAGGING OF THE STRAP, PRIOR TO THE STRAP BEING WELDED TO THE FRAMING.
8. 3x1x12 GA. BENT PLATE DIAGONAL BRACE TO ROOF BEAM @ 12'-0" O.C. MAX (8'-0" MAX FROM HSS COLUMNS) & AT ROOF STRAP CROSS BRACING LOCATIONS PER A/-. SEE DETAIL 5/- @ BEAMS. PROVIDE PURLIN BLOCKING @ EACH BRACE @ END MODULES ONLY PER (10) BELOW
   STRAPS SHALL BE INSTALLED TAUT ONTO FRAMING, NO SLACK OR LOOSE AREAS.
9. NOT USED
10. MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 3/S4.2 BLOCKING IS ONLY REQUIRED AT END MODULES AT PURLINS WITH DIAGONAL BEAM BRACING AT EXTERIOR SIDE WALLS PER (8) ABOVE.



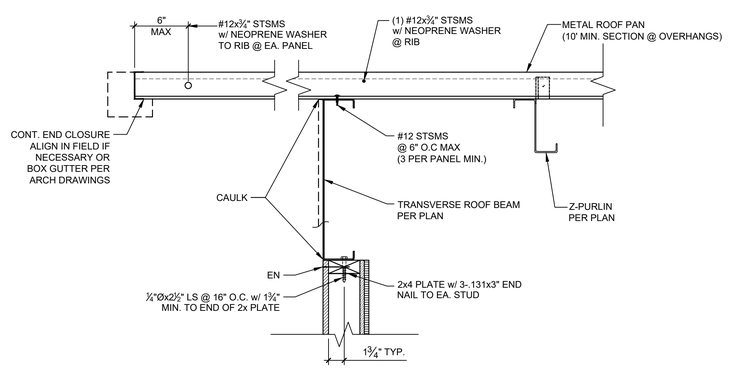
SIDE WALL TO ROOF BEAM DETAIL @ ROOF CHANNEL — SCALE: 1 1/2"=1'-0" — 5

NOT USED — A

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8 1/4"
☐ 36'x40'	3	1	35'-6 1/2"
☒ 48'x40'	4	2	47'-4 3/4"

BUILDING SIZE SCHEDULE



OVERHANG DETAIL — SCALE: 1 1/2"=1'-0" — 6

NOT USED — 6A

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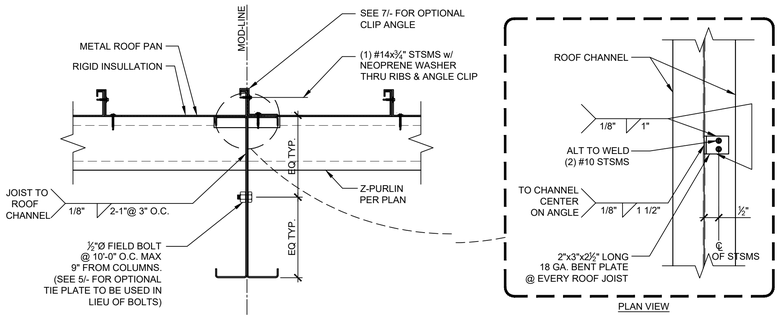
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

ROOF FRAMING PLAN & DETAILS

SHEET NUMBER:

S4.0

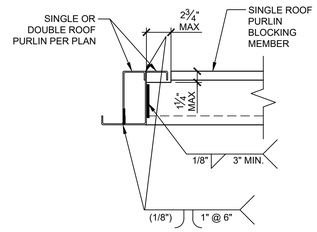


ROOF BEAM CONNECTION DETAIL

SCALE: 1 1/2"=1'-0" | 1

NOT USED

SCALE: 1 1/2"=1'-0" | 2



BLOCKING & DBL PURLIN CONNECTION DETAIL

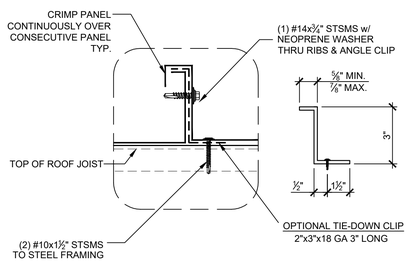
SCALE: 1 1/2"=1'-0" | 3

NOT USED

SCALE: 1 1/2"=1'-0" | 4

NOT USED | 5

NOT USED | 6



NOTE:
MECHANICALLY CRIMP EACH STANDING SEAM ENTIRELY.
MECHANICALLY CRIMP PANELS OVER ALL CLIPS.

ROOF DETAIL (OPTIONAL ROOF PAN CLIP)

SCALE: 1 1/2"=1'-0" | 7

NOT USED | 8

NOT USED | 9

NOT USED | 10

NOT USED | 11

NOT USED | 12

NOT USED | 13

NOT USED | 14

NOT USED | 15

GENERAL NOTES

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

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RAYMOND PATRICK DEMARAIS
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Ren. 3-31-25
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DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

ROOF FRAMING DETAILS

SHEET NUMBER:

S4.2

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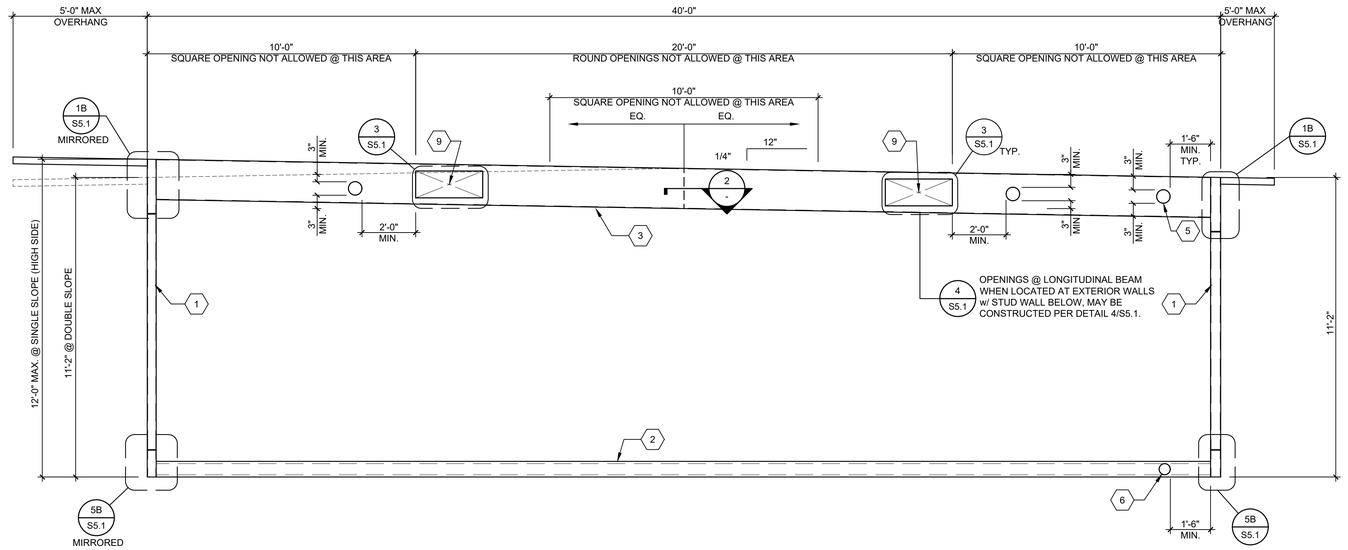


FRONT

REAR

TYPICAL LONGITUDINAL FRAME ELEVATION

SCALE: 3/8"=1'-0"

1 HSS COLUMN - SEE SCHEDULE 3/- BELOW.

2 FLOOR BEAM - SEE SCHEDULE 3/- BELOW.

3 LONGITUDINAL ROOF BEAM - SEE SCHEDULE 3/- BELOW.

4 TRANSVERSE ROOF BEAM - SEE SCHEDULE 3/- BELOW.

5 6"Ø MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1.

NOTE: IF HOLE IS 3" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.

6 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELOW. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATIONS OR ACROSS VENT OPENINGS. - SEE 6/S5.1.

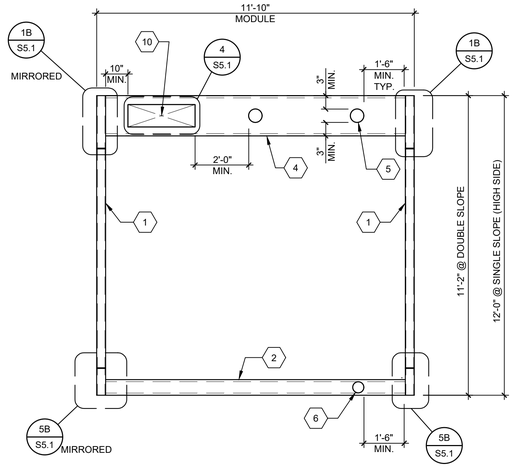
NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.

7 NOT USED.

8 NOT USED.

9 LONGITUDINAL BEAM OPENING:
REFER TO DETAIL 3/S5.1 FOR OPENING REINFORCEMENT
(10"x18" MAX OPENING SIZE).

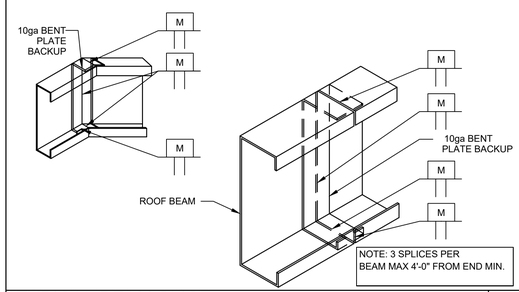
10 TRANSVERSE BEAM OPENING:
REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT
(10"x30" MAX OPENING SIZE).



TYPICAL TRANSVERSE FRAME ELEVATION

SCALE : 3/8"=1'-0" | 4

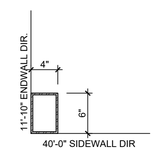
THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-10 & D1.1.3-08 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL ALL DETAILS THIS SHEET. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCHTOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED
BY AWS CLASSIFICATION.



TYPICAL BEAM SLICE

SCALE: 1 1/2"=1'-0" | 2

FLOOR BEAMS	COLUMNS	LONGITUDINAL ROOF CHANNEL	TRANSVERSE ROOF CHANNEL
C7x9.8	HSS 6x4x¼ (ASTM A1085 - Fy = 50ksi (SEE ORIENTATION BELOW)	10 GA.	10 GA.



NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

FRAME MEMBER SCHEDULE

3

KEY NOTES

1

NOT USED

SCALE: 1 1/2"=1'-0" | 5

NOT USED

3

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BRADLEY PATRICK CRAWFORD
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

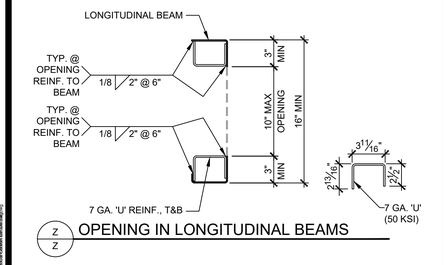
MOMENT FRAME
ELEVATIONS & DETAILS

SHEET NUMBER:

S5.0

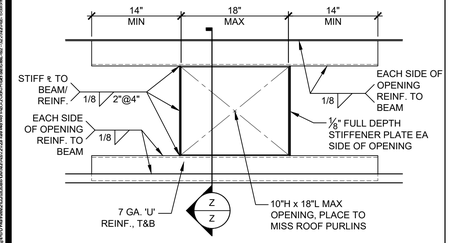
NOT USED

1A



Z
Z

OPENING IN LONGITUDINAL BEAMS



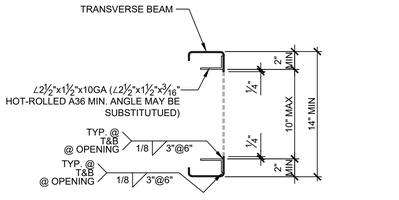
NOTES:

1. LOCATE DIAGONAL BRACE (SEE 1/S4.1) AT PURLINS CLOSEST TO EACH SIDE OF BEAM OPENING, TYP.
2. BEAM OPENING(S), LOCATED AT EXTERIOR WALLS w/ STUD WALL BELOW, MAY BE CONSTRUCTED PER DETAIL 4/S5.1.

OPENING @ ROOF BEAMS (LONGITUDINAL BEAMS)

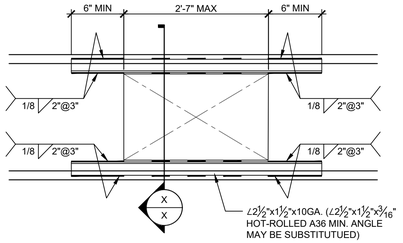
SCALE: 1 1/2"=1'-0"

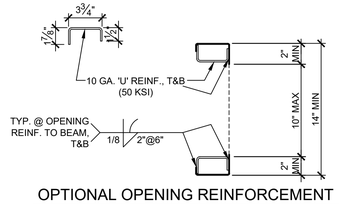
3



X
X

OPENING IN TRANSVERSE BEAMS





OPTIONAL OPENING REINFORCEMENT

OPENING @ ROOF BEAMS (TRANSVERSE BEAMS)

SCALE: 1 1/2"=1'-0"

4

NOT USED

5A

TYP. CORNER TO FLOOR BM DETAIL

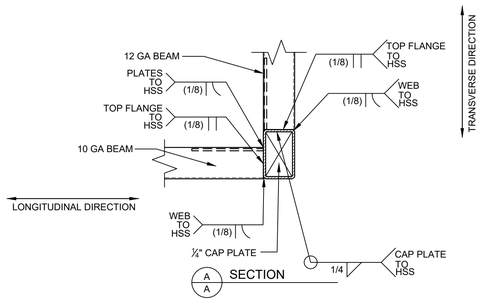
SCALE: 1 1/2"=1'-0"

5B

OPENING IN BEAMS

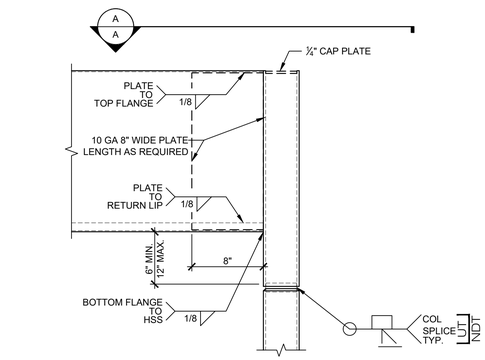
SCALE: 1 1/2"=1'-0"

6



A
A

SECTION



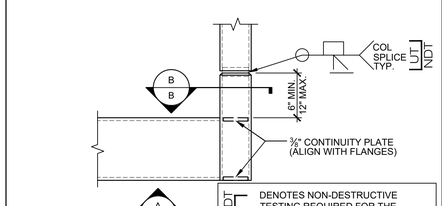
NDT — DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.

NOTE:
1. LONGITUDINAL ROOF BEAM SHOWN TRANSVERSE ROOF BEAM SIMILAR

TYPICAL ROOF CHANNEL TO HSS DETAIL

SCALE: 1 1/2"=1'-0"

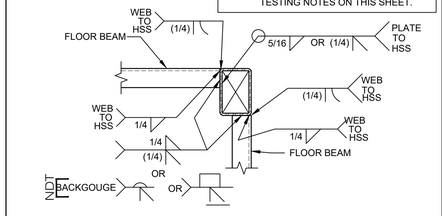
1B



B
B

A
A

NDT — DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.



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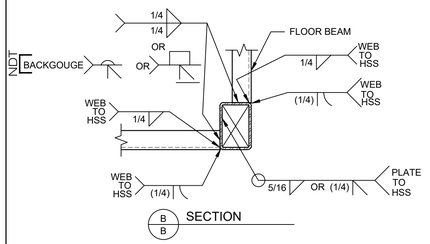
SECTION



B
B

SECTION

FULL PEN WELD MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED BEAM WEB-TO-COLUMN WELD SHOWN.

NDT UT

TYP. CORNER TO FLOOR BM DETAIL

SCALE: 1 1/2"=1'-0"

5B

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR WELDS ON THIS SHEET SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15 (HOT-ROLLED), D1.3-08 (COLD-FORMED) & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO D.S.A. UPON REQUEST. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

GENERAL NOTES

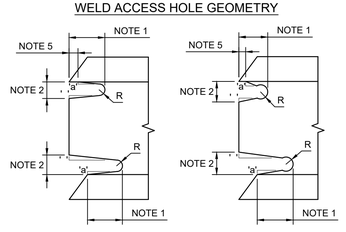
NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.

1. WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THESE DRAWINGS WITH THE SYMBOL: NDT
2. ALL WELDS DESIGNATED FOR NON-DESTRUCTIVE TESTING REQUIRE MAGNETIC PARTICLE TESTING (MT) TO BE PERFORMED ON 25% OF THOSE WELDS.
3. ULTRASONIC TESTING (UT) IS TO BE PERFORMED ON 100% OF WELDS DENOTED WITH THE SYMBOL UT, AND IS ONLY REQUIRED ON THOSE DESIGNATED WELDS.
4. ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
5. ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES

1. FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SEISMIC PROVISIONS.
2. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
3. QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
4. WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AISC 360-16, SECTION J1.6, AND SHALL BE CONSTRUCTED PER THE FOLLOWING DETAILS & NOTES.

WELD ACCESS HOLE GEOMETRY

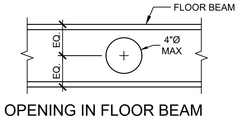


ALTERNATE 1 — ALTERNATE 2

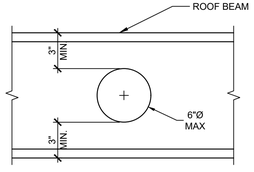
NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.

1) LENGTH: GREATER OF 1.5tw (WEB THICKNESS) OR 1-1/2 IN. (38 MM)
2) HEIGHT: GREATER OF 1.0tw OR 3/4 IN. (19 MM) BUT NEED NOT EXCEED 2 IN. (50 MM)
3) R: 3/8 IN. MIN. (10 MM). GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d) OF AISC 360-16.
4) SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE ' ' MAY BE HORIZONTAL.
5) THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.

REQ. FOR FR. MOMENT CONNECTIONS



4" OPENING IN FLOOR BEAM



6" OPENING IN ROOF BEAM

OPENING IN BEAMS

SCALE: 1 1/2"=1'-0"

6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

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APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK D. [illegible]
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

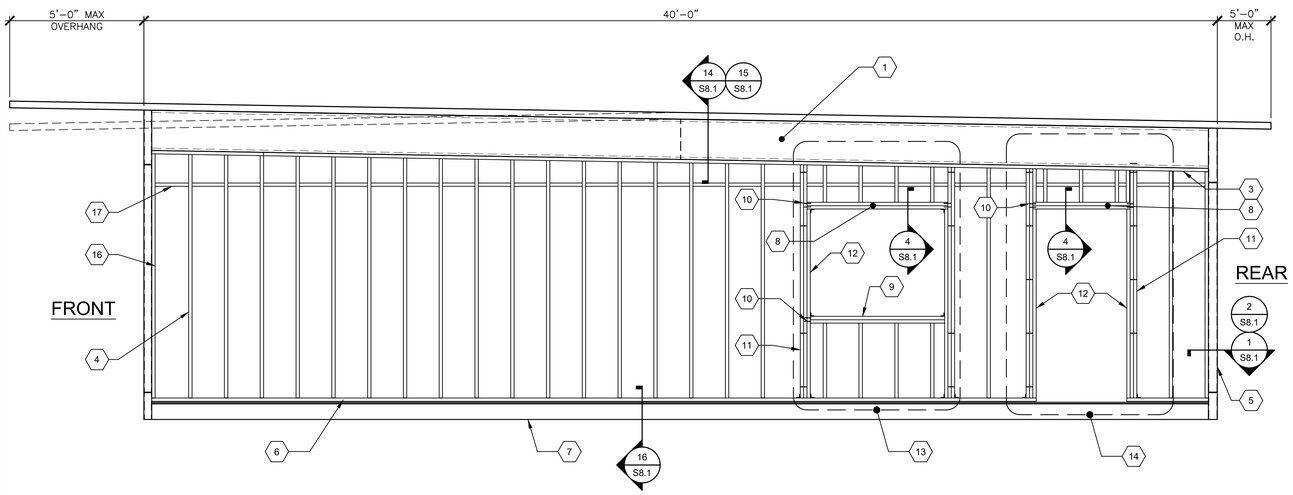
SHEET TITLE:

MOMENT FRAME CONNECTION DETAILS

SHEET NUMBER:

S5.1

D:\XXXX (jai-4e4e4c5b0d2e3b-b8c1b0d9b2b2f2d1)\M_Projects\Projects\PROJECTS\2021\2021XXXX\Drawings\S5\S5.1 MOMENT FRAME CONNECTION DETAILS.dwg, 10/26/2023 8:08:10 AM, PC Plotter



1 ROOF BEAM PER SHEET S5.0.
2 2x4 PLATE, NO SPLICE
3 2x4 PLATE
4 2x4 STUDS SPACED PER SCHEDULE w/ (3) 0.131"Øx3" END NAILS OR (4) 0.131"Øx3" TOE NAILS T&B TO PLATES, TYP.
5 HSS COLUMN PER SHEET S5.0
6 2x4 BOTTOM PLATE P.T. @ CONCRETE FLOORS
7 PERIMETER FLOOR BEAM PER SHEET S5.0
8 HEADER PER SCHEDULE AND DETAIL 4/S8.1
9 WINDOW SILL PER SCHEDULE
10 HEADER OR SILL TO KING STUD NAILING PER SCHEDULE
11 KING STUDS PER SCHEDULE
12 2x4 TRIMMER
13 OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/- FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
14 OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/- FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
15 HVAC OPENING @ EXTERIOR WALL (600# MAX WT.)
16 2x NAILER
17 FIRE BLOCKING VERTICALLY AT THE CEILING AND FLOOR LEVELS PER CBC 718.2

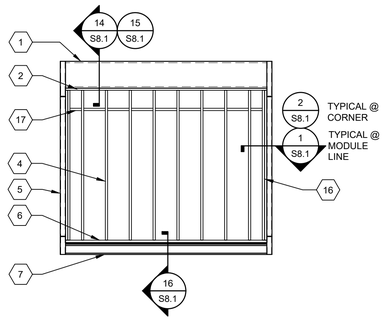
KEY NOTES

EXTERIOR WALL SCHEDULE				
FINISH TYPE	FOUNDATION TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING TYPICAL
⅞" PLYWOOD SHEATHING 303 CONFORMING TO PS1-19. VERTICAL GROOVES @ 8" O.C.	WOOD	WALL FINISH PER A5.0 & A5.1 JOINT DETAIL PER 12/S8.1 NAILING PER BLDG SECTIONS[1,2]	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
~~⅜" HARDI-LAP SIDING OVER ½" OSB~~	~~WOOD~~	~~WALL FINISH PER A5.2 & A5.3 JOINT DETAIL PER 12/S8.1 NAILING PER BUILDING SECTIONS[1,2]~~	~~HEM FIR #2 OR DOUG FIR #2~~	~~16" O.C. MAX~~

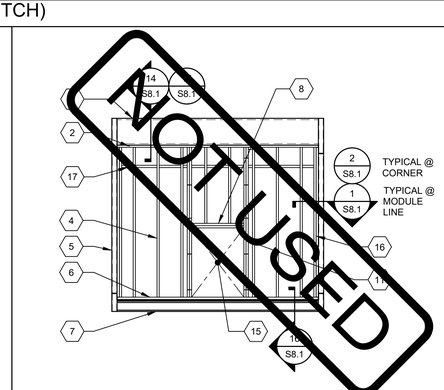
FOOTNOTES
1. ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
2. TYPICAL PLYWOOD OR OSB NAILING WHERE OCCURS: 0.131"Ø x2¼" GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)

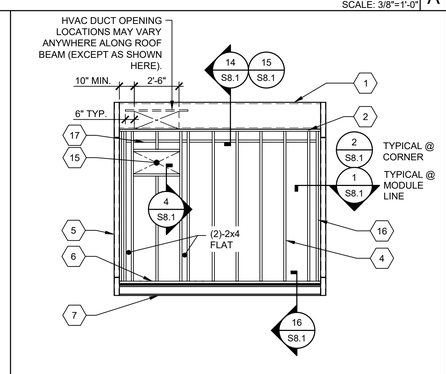
SCALE: 3/8"=1'-0" A



TYP. END WALL FRAMING w/ NO OPENINGS
SCALE: 1/4"=1'-0" 1

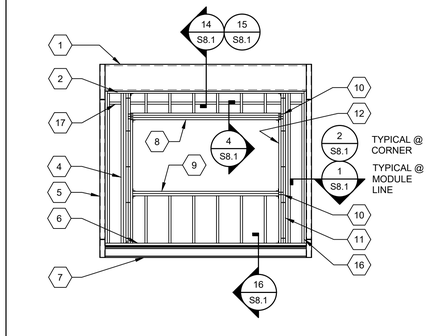


TYP. END WALL FRAMING w/ INDOOR HVAC UNIT (OPTIONAL)
SCALE: 1/4"=1'-0" 2

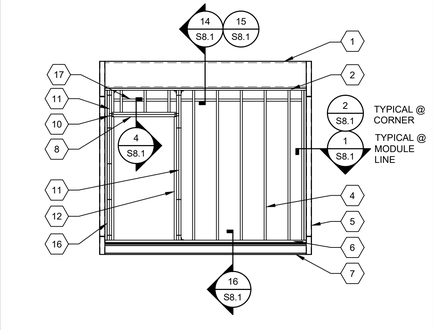


TYP. END WALL FRAMING w/ WALL HUNG HVAC UNIT (OPTIONAL)
SCALE: 1/4"=1'-0" 3

EXTERIOR WALL FINISH/WALL STUD SCHEDULE



TYPICAL END WALL FRAMING WINDOW
SCALE: 1/4"=1'-0" 4



TYPICAL END WALL FRAMING w/ DOOR
SCALE: 1/4"=1'-0" 5

DOOR/WINDOW OPENINGS AT TYPICAL WALL								
OPENING SIZE	HEADER	WINDOW SILL[2] (AS APPLICABLE)	KING STUDS[1]	KING STUD INTERNAILING	HEADER TO KING STUD NAILS		WINDOW SILL TO KING STUD NAILS	
					# END NAILS 1ST KING STUD TO HEADER[3] (0.131"Øx3" NAILS)	# FACE NAILS KIND STUD TO KING STUD @ HEADER (0.131"Øx3"NAILS)	# END NAILS 1ST KING STUD TO SILL[3] (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ SILL (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	(4) 2x4	(3) 2x4	(4) 2x4	0.131x3" NAILS @ 12" O.C. MAX STAGGERED	8	4	6	2
>6'-0" TO 8'-0"	(4) 2x4	(2) 2x4	(4) 2x4		8	4	4	2
>4'-0" TO 6'-0"	(3) 2x4	(2) 2x4	(3) 2x4		6	3	4	2
4'-0" OR LESS	(2) 2x4	(2) 2x4	(2) 2x4		4	2	4	2

FOOTNOTES
1. PROVIDE (2) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 4'-0". PROVIDE (1) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS 4'-0" OR LESS.
2. WHEN MORE THAN A SINGLE SILL PLATE IS REQUIRED, INTERNAIL w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED.
3. (2) END NAILS PER LAMINATION MINIMUM.

OPENING SCHEDULE

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DATE: 01/14/2026

American Modular Systems
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24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
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SITE SPECIFIC PROJECT NAME
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DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ROGER PATRICK GUNNELL
No. C12631
Ren. 9-31-25
STATE OF CALIFORNIA

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REVISIONS
1
2
3
4

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:
WALL FRAMING
ELEVATIONS & SCHEDULES
- WOOD STUDS

SHEET NUMBER:
S8.0

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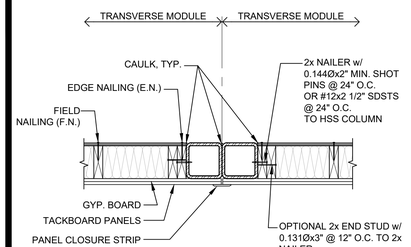
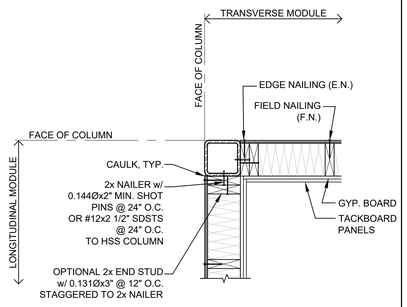


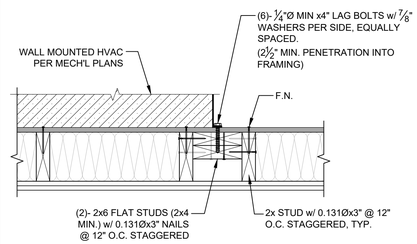
WALL TO COLUMN TYP. DETAIL @ MODLINES 1

FOR COLUMN LOCATION REFER TO ARCH. DETAILS — SCALE: 1-1/2" = 1'-0"



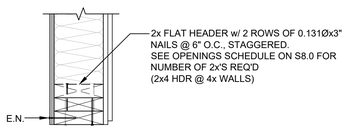
WALL TO COLUMN TYP. DETAIL @ CORNER 2

FOR COLUMN LOCATION REFER TO ARCH. DETAILS — SCALE: 1-1/2" = 1'-0"



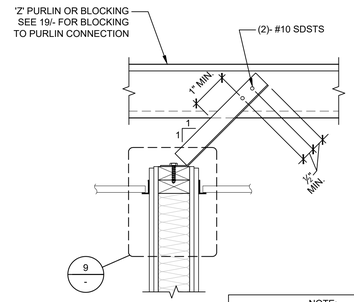
WALL HUNG HVAC ATTACHMENT DETAIL 3

SCALE: 1-1/2" = 1'-0"



WALL HEADER DETAIL 4

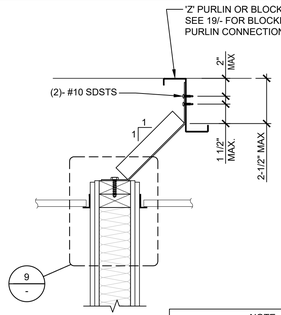
SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING 5

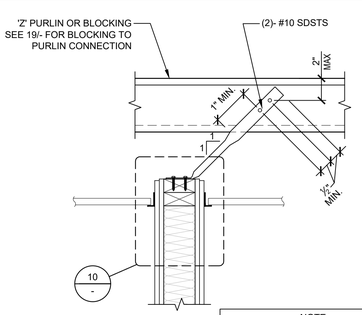
BRACE PARALLEL TO PURLINS — SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING 6

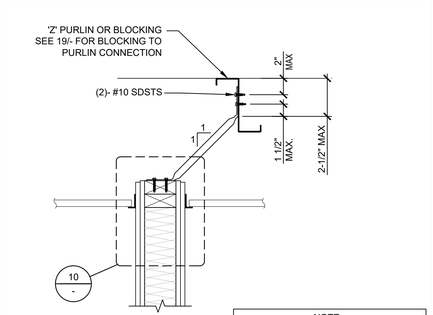
BRACE PERPENDICULAR TO PURLINS — SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE 7

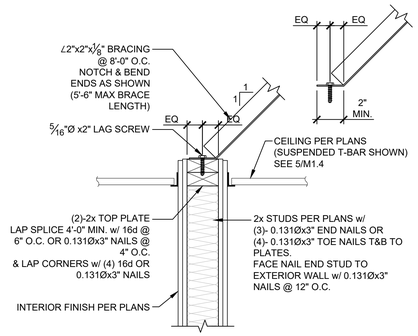
BRACE PARALLEL TO PURLINS — SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

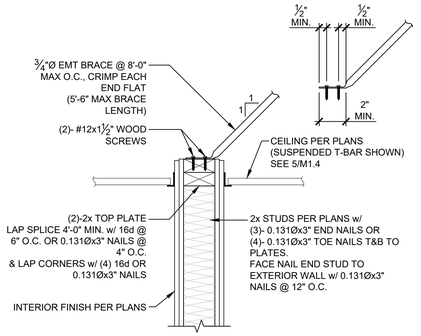
ALT. INTERIOR WALL BRACING w/ EMT BRACE 8

BRACE PERPENDICULAR TO PURLINS — SCALE: 1-1/2" = 1'-0"



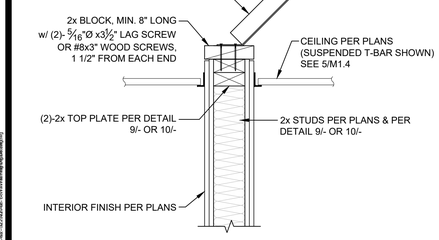
TYP. INTERIOR WALL BRACING 9

INTERIOR PARTITION BRACING — SCALE: 1-1/2" = 1'-0"



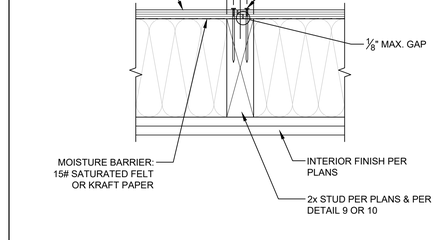
ALT. INTERIOR WALL BRACING 10

INTERIOR PARTITION BRACING w/ EMT BRACE — SCALE: 1-1/2" = 1'-0"



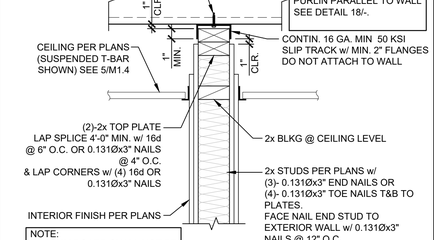
ALT. BLOCKING @ INT. WALL BRACING 11

SCALE: 1-1/2" = 1'-0"



TYP. SHEATHING JOINT 12

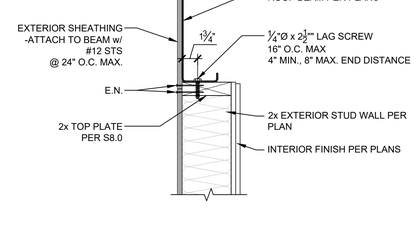
SCALE: 1-1/2" = 1'-0"



NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK

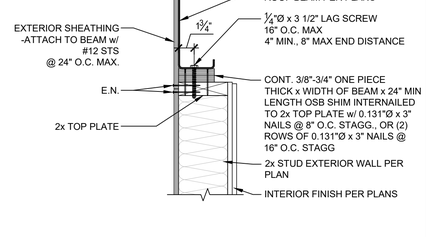
ALT. INTERIOR WALL ATTACHMENT 13

TO PURLINS OR BLOCKING PERPENDICULAR TO WALL — SCALE: 1-1/2" = 1'-0"



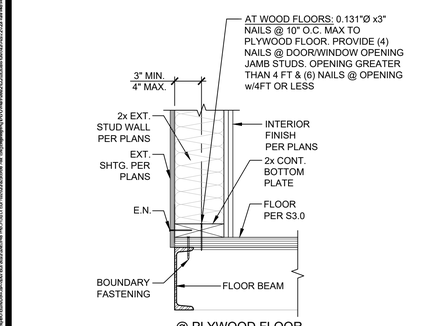
EXTERIOR WALL TO ROOF BEAM DETAIL 14

SCALE: 1-1/2" = 1'-0"



EXTERIOR WALL TO ROOF BEAM DETAIL 15

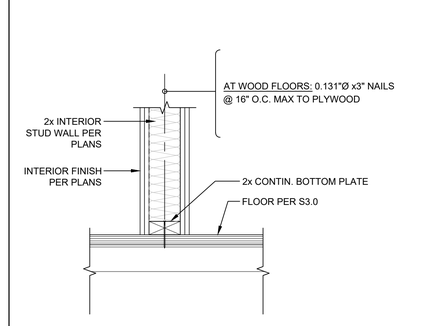
AT SHIM CONDITION — SCALE: 1-1/2" = 1'-0"



FASTENER END DISTANCE: 2" MIN - 1/2" OF SPACING MAX. FROM ENDS OF PLATES, TYP.

TYP. EXTERIOR WALL TO FLOOR DETAIL 16

SCALE: 1-1/2" = 1'-0"

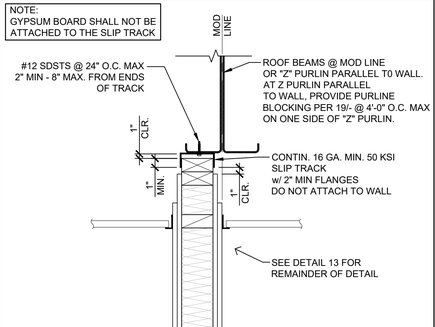


FASTENER END DISTANCE: 2" MIN - 1/2" OF SPACING MAX. FROM ENDS OF PLATES, TYP.

TYP. INTERIOR NON-BEARING WALL ATTACHMENT 17

SCALE: 1-1/2" = 1'-0"

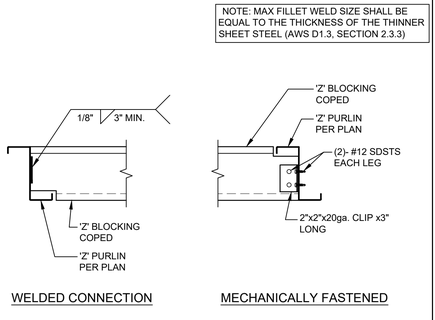
NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK



TYP. INTERIOR NON-BEARING WALL ATTACHMENT 18

TO ROOF BEAMS @ MODLINE OR 'Z' PURLINS PARALLEL TO WALL — SCALE: 1-1/2" = 1'-0"

NOTE: MAX FILLET WELD SIZE SHALL BE EQUAL TO THE THICKNESS OF THE THINNER SHEET STEEL (AWS D1.3, SECTION 2.3.3)



PURLIN BLOCKING DETAILS 19

TYPICAL INTERIOR NON-BEARING PARTITION WALL NOTES:

1. STUD SIZE: 2x4 MIN.
2. STUD SPACING: 16" O.C. MAX
3. WOOD SPECIES & GRADE: PER CARPENTRY NOTES SHEET N1.0 SECTION 6.
4. STUD NAILING TO T&B PLATES: (3)-0.131"Ø x 3" END NAILS OR (4)-0.131"Ø x 3" TOE NAILS.
5. DOUBLE 2x TOP PLATES: 0.131"Ø x 3" NAILS @ 16" O.C. TYP. LAP SPLICE 4'-0" MIN. w/0.131"Ø x 3" NAILS @ 4" O.C. & LAP CORNERS w/(4)-0.131"Ø x 3" NAILS.
6. INTERSECTIONS: FACE NAIL END STUD TO CROSS WALL (INCLUDING EXTERIOR WALLS) w/0.131"Ø x 3" NAILS @ 12" O.C. (ATTACH PER 2/- @ HSS COLUMNS).
7. DOOR, WINDOW, & HVAC OPENINGS: PER REQUIREMENTS FOR EXTERIOR WALLS PER SHEET S8.0 EXCEPT FRAMING MAY BE 2x4 MIN.
8. PROVIDE (1) SIMPSON A35 T&B OF KING STUDS TO PLATES @ ALL INTERIOR OPENINGS.

PURLIN BLOCKING CONNECTIONS 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANTHONY PATRICK GIANNETTA — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

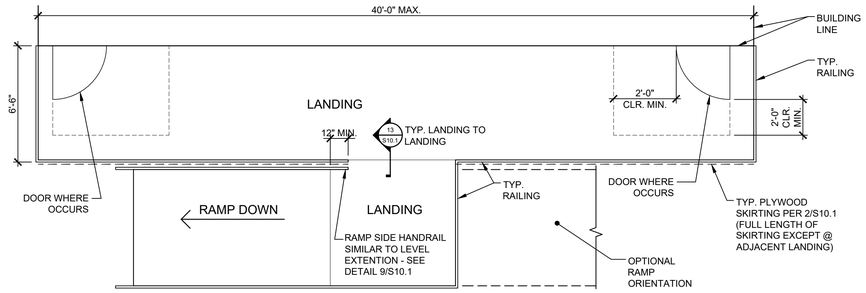
SHEET TITLE:

WALL FRAMING DETAILS - WOOD STUDS

SHEET NUMBER:

S8.1

S3.XXXXX_{#c4c4c4}5b5b5b;2c2c2c;3e3e3e;4e4e4e;5b5b5b;6b6b6b;7b7b7b;8b8b8b;9b9b9b;aeaeae;bebebe;cecece;dedede;eeeeee;fefefe;ffffff;ffffff;ffffff



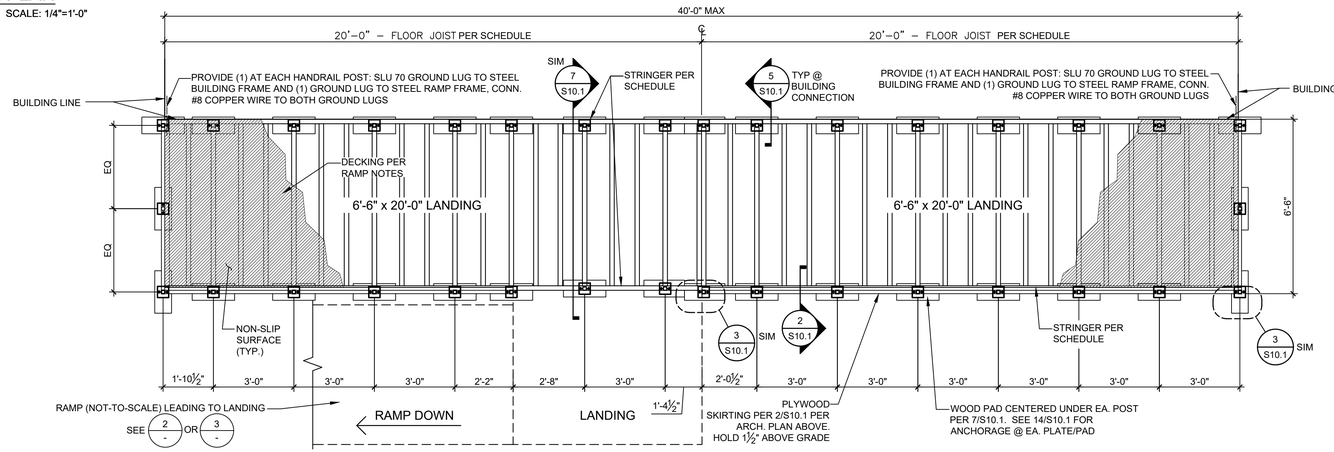
RAMP AND LANDING DATA

OCCUPANCY	TO MATCH BUILDING
SNOW AND ICE LOAD	NOT CONSIDERED
RAMP LIVE LOAD (MAX. PSF)	100 (1,000# CONCENTRATED LD)
DESIGN DEAD LOADS (MAX PSF)	12.0
ALLOWABLE SOIL PRESSURE (PSF)	1,000 FOR WOOD FOUNDATION
LATERAL LOADS	TO MATCH MAX BUILDING REQUIREMENTS
LANDING - PERPENDICULAR TO RAMP DIRECTION & RAMP	OTHER SELF-SUPPORTING STRUCTURE (SEE FRAMES - 7/S10.1) R=1.25 I = 1.0 Ωo = 2.0
LANDING - PARALLEL TO RAMP DIRECTION	PLYWOOD SKIRTING (SHEARWALL) (SEE DETAIL 2/S10.1)

NOTE:
LANDING SECTIONS BUILT-UP AGAINST THE BUILDING ARE NOT REQUIRED TO HAVE SKIRTING PER DETAIL 2/S10.1.
THE LANDING IS DESIGNED AS AN OPEN FRONT DIAPHRAGM TO BE LATERALLY CANTILEVERED OFF THE FRONT SKIRTING AND THE FRAMES DETAILED ON 7/S10.1.

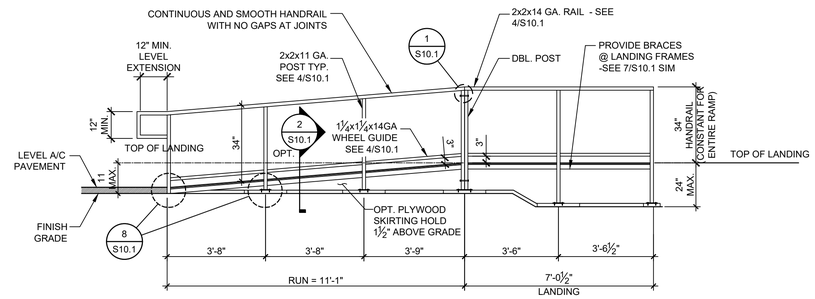
TYPICAL ARCHITECTURAL PLAN

SCALE: 1/4"=1'-0"



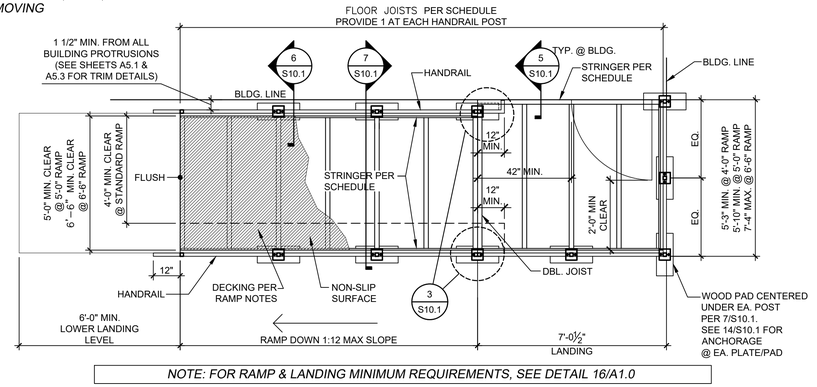
LANDING PLAN OPTION

SCALE: 3/8" = 1'-0" 1



NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN.) FOR MOVING

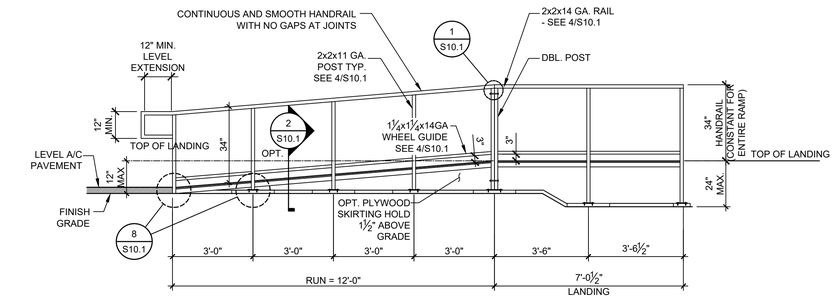
RAMP ELEVATION



NOTE: FOR RAMP & LANDING MINIMUM REQUIREMENTS, SEE DETAIL 16/A1.0

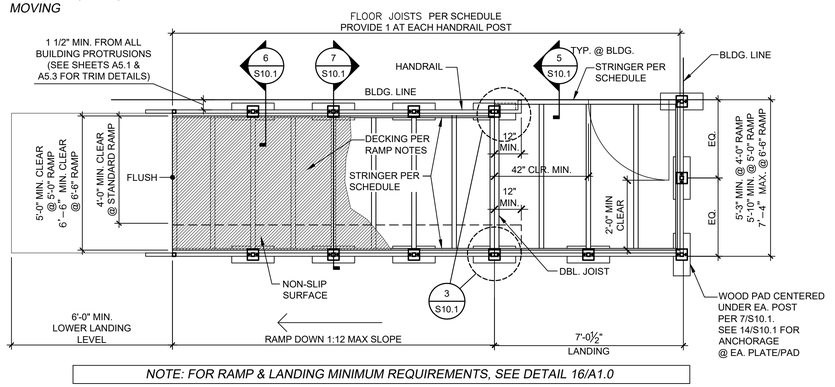
11-FOOT TYPICAL RAMP

SCALE: 3/8" = 1'-0" 2



NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN.) FOR MOVING

RAMP ELEVATION



NOTE: FOR RAMP & LANDING MINIMUM REQUIREMENTS, SEE DETAIL 16/A1.0

12-FOOT TYPICAL RAMP

SCALE: 3/8" = 1'-0" 3

1. ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 C.C.R. SECTIONS 11B-405, 1010 AND 1012. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAILS AND WHEEL GUIDE RAILS ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE. HANDRAILS AND WHEEL GUIDE RAILS SHALL BE CONTINUOUS AND SMOOTH WITH NO GAPS AT JOINTS. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. THE RAMP AND LANDING SURFACE SHALL BE ¾" MARINE GRADE PLYWOOD OR 11GA SHEET METAL. RAMP AND LANDING SHALL HAVE A NON-SLIP SURFACE FINISH APPLIED. NON-SLIP FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 9B ON SHEET N1.0. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTION TO THE INTEGRAL RAMP HANDRAIL AND MOUNTED AT THE SAME HEIGHT. RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATION MEMBERS SHALL BE AS FOR BUILDING FOUNDATION. ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM.

2. FLOOR DECKING

¾" MARINE EXTERIOR A.P.A. 48/24 PLYWOOD w/ NON-SLIP SURFACE. DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FRAMING WITH #10 SELF DRILLING BUGLE HEAD 1" GALV. SCREWS OR 0.144"Ø x1 ½" MIN. GALV ET&F PINS (IAPMO REPORT ER-335) OR EQUIV. @ 6" O.C. EDGES AND 12" O.C. FIELD, TYP. PROVIDE ATTACHMENT @ 6" O.C. TO JOISTS BETWEEN HANDRAIL POST AS SHOWN ON DETAIL 7/S10.1.

3. ALT. FLOOR DECKING

10 GA. SHEET METAL WITH NON-SLIP SURFACE (0.8 MIN COEFFICIENT OF FRICTION) ATTACHED TO STEEL FRAMING WITH #12x1" STS @ 6" O.C. E.N. & 12" O.C. F.N. PROVIDE ATTACHMENT @ 6" O.C. TO JOISTS BETWEEN HANDRAIL POST AS SHOWN ON DETAIL 7/S10.1. MATERIAL STRENGTH SHALL BE 36 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: ASTM A1011 SS GRADE 36 (Fy=36 KSI) ASTM A653 SS GRADE 37 (Fy=37 KSI) ASTM A1008 SS GRADE 40 (Fy=40 KSI).

4. GROUNDING OF BUILDING COMPONENT

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHER AND MEET THE REQUIREMENTS OF I.R. E-1 ISSUED BY D.S.A.

5. RAMP SLOPE

RAMPS SHALL NOT SLOPE MORE THAN 1" RISE OVER A 12" RUN (1:12). CROSS SLOPE SHALL NOT EXCEED 1:48.

6. HANDRAILS

HANDRAILS SHALL BE INSTALLED ON BOTH SIDES OF RAMP AT 34" HIGH. HANDRAILS SHALL BE AT A CONSISTENT VERTICAL HEIGHT FOR THE ENTIRE STRUCTURE.

7. RAMP PLANNING

DUE TO VARYING SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 24", THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 24'-0" LONG AT A SLOPE OF 1:12. ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY AMS, INC. IS 12'-0" LONG AT A SLOPE OF 1:12, THEREFORE THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS AMS, INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON THIS SHEET.

8. LANDINGS

OVERALL LENGTH OF A LANDING MAY VARY FROM 60" UP TO 40'-0". LENGTH MUST CONFORM TO APPROVED LANDING. SLOPE LANDING NOT TO EXCEED 1:48 TO PREVENT WATER PONDING.

9. FASTENERS

ALL EXTERIOR USE FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.

10. WELDING

THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

RAMP NOTES

STRINGER SCHEDULE(1)

RAMP/LANDING WIDTH	MAX STRINGER SPANS (FT)		
	3'-0"	3'-6"	3'-9"
4'-0"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
5'-0"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
5'-10"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
6'-6"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
7'-4"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16

(1) SEE 4/S10.1 FOR LIGHT GAUGE STEEL TUBE PROPERTIES, SIZES INDICATED ARE MINIMUM. THICKER TUBES MAY BE USED. HSS 2x2x1/8 OR LARGER PER 11/S10.1 MAY BE SUBSTITUTED FOR LIGHT GAUGE TUBES.

JOIST SCHEDULE(1)

RAMP/ LANDING WIDTH	MAX JOIST SPACING									
	2x2x14 GA.		2x2x11 GA.		HSS 2x2x3/8		HSS 2x2x3/16		HSS 2x2x1/4	
	DECKING		DECKING		DECKING		DECKING		DECKING	
	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.
4'-0"	16"	11"	16"	14"	16"	14"	16"	14"	16"	14"
5'-0"	14"	11"	16"	14"	16"	14"	16"	14"	16"	14"
5'-5½"	-	-	12"	12"	12"	12"	16"	14"	16"	14"
5'-10"	-	-	12"	12"	12"	12"	15"	14"	16"	14"
6'-6"	-	-	-	-	-	-	12"	12"	14"	14"
7'-4"	-	-	-	-	-	-	9"	9"	11"	11"

(1) SEE 4/S10.1 FOR LIGHT GAUGE STEEL TUBE PROPERTIES, AND 11/S10.1 FOR HSS PROPERTIES

RAMP/ LANDING MEMBER SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

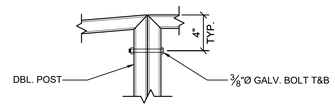
SHEET TITLE:

TYPICAL RAMP PLANS & NOTES

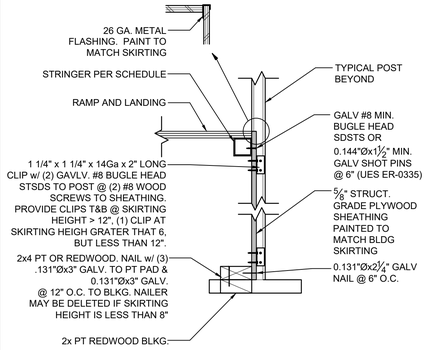
SHEET NUMBER:

S10.0

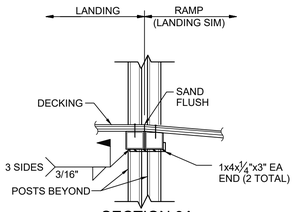
D:\XXXX - [redacted]\Revit\[redacted].rvt 8/8/2023 8:47:46 PM PLOTTED BY: [redacted]



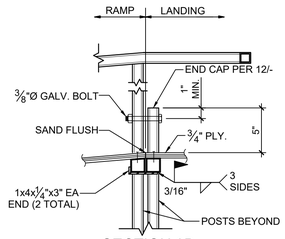
DETAIL — SCALE: 3/8"=1'-0" — 1



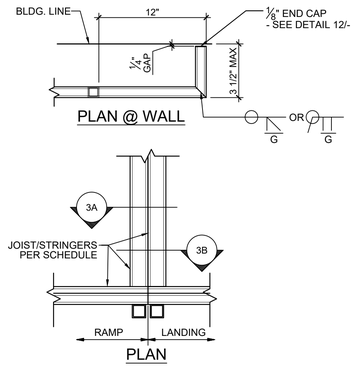
RAMP SKIRT DETAIL — SCALE: 3/8"=1'-0" — 2



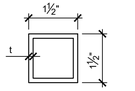
SECTION 3A



SECTION 3B

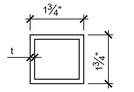


RAMP TO LANDING CONNECTION DETAIL — SCALE: 3/8"=1'-0" — 3



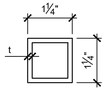
1½"x1½"x11 GA. TUBE

A = 0.602 IN^2
Sx = 0.244 IN^3
Ix = 0.183 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



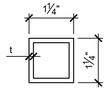
1¾"x1¾"x11 GA. TUBE

A = 0.725 IN^2
Sx = 0.356 IN^3
Ix = 0.312 IN ^{4}
t = 0.112" MIN.
(0.1175" DESIGN)



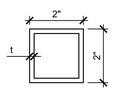
1¼"x1¼"x14 GA. TUBE

A = 0.319 IN^2
Sx = 0.114 IN^3
Ix = 0.072 IN^4
t = 0.068" MIN.
(0.0713" DESIGN)



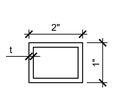
1¼"x1¼"x11 GA. TUBE

A = 0.497 IN^2
Sx = 0.163 IN^3
Ix = 0.102 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



2"x2"x11 GA TUBE

A = 0.837 IN^2
Sx = .479 IN^3
Ix = .479 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



2"x1"x10 GA TUBE

A = 0.533 IN^2
Sx = 0.324 IN^3
Ix = 0.324 IN^4
t = 0.068" MIN.
(0.0713" DESIGN)

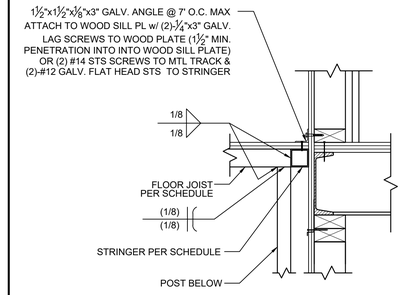
MATERIAL STRENGTH SHALL BE 36 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

ASTM A1011 SS GRADE 36 (Fy=36 KSI)
ASTM A653 SS GRADE 37 (Fy=37 KSI)
ASTM A1008 SS GRADE 40 (Fy=40 KSI)

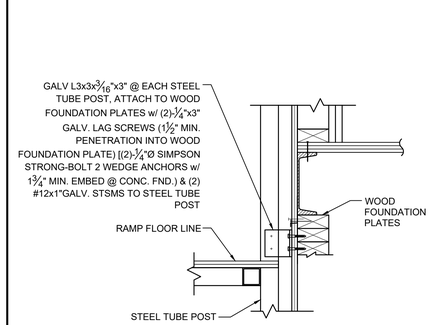
MATERIAL SHALL BE GIVEN A RUST INHIBITIVE COATING.

THE MATERIAL THICKNESS OF LIGHT GAUGE STEEL MEMBERS, IN THEIR END US, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ABOVE. THE MATERIAL GAUGE DESIGNATION SHALL BE USED AS REFERENCE ONLY. SPECIFIED STEEL TUBE THICKNESSES ARE MINIMUM. THICKER TUBES MAY BE USED.

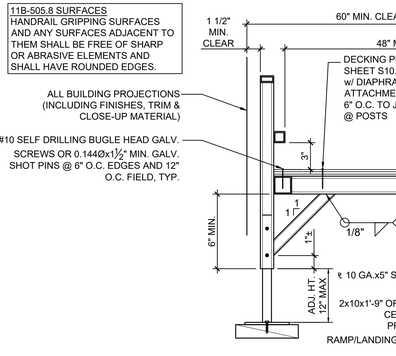
LIGHT GAUGE STEEL TUBE PROPERTIES — SCALE: 3/8"=1'-0" — 4



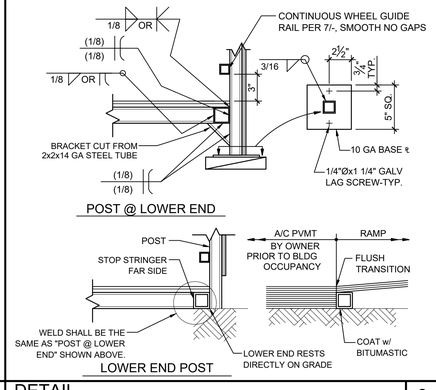
LANDING ATTACHMENT DETAIL — SCALE: 3/8"=1'-0" — 5



RAMP CONNECTION DETAIL — SCALE: 3/8"=1'-0" — 6

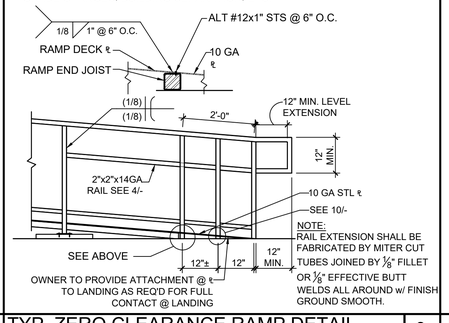


HANDRAIL & RAMP SECTION — SCALE: 3/8"=1'-0" — 7

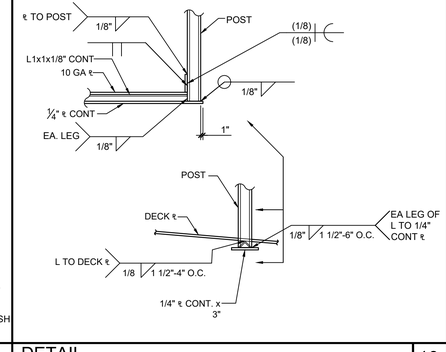


DETAIL — SCALE: 3/8"=1'-0" — 8

NOTE:
THE ZERO CLEARANCE RAMP LAYOUT IS AN OPTIONAL METHOD ONLY. IT MUST BE APPROVED IN WRITING, IF AMS IS TO PROVIDE THIS OPTION. ARCHITECT/OWNER MUST TAKE INTO ACCOUNT VARYING SITE CONDITIONS, GRADE CHANGES, BUILDING SEPARATION, ETC.



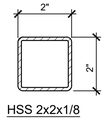
TYP. ZERO CLEARANCE RAMP DETAIL — SCALE: 3/8"=1'-0" — 9



DETAIL — SCALE: 3/8"=1'-0" — 10

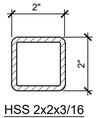
1. STEEL IN CONTACT WITH GROUND OR PT WOOD FOUNDATION PLATE SHOULD BE GALVANIZED.

GENERAL CONNECTION NOTES



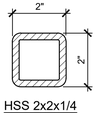
HSS 2x2x1/8

ASTM A500 GRADE B
Fy = 46 KSI
A = 0.840 IN^2
Sx = 0.4863 IN^3
Ix = 0.486 IN^4



HSS 2x2x3/16

ASTM A500 GRADE B
Fy = 46 KSI
A = 1.19 IN^2
Sx = 0.641 IN^3
Ix = 0.641 IN^4

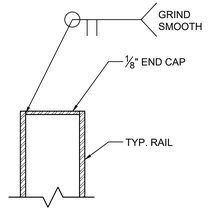


HSS 2x2x1/4

ASTM A500 GRADE B
Fy = 46 KSI
A = 1.51 IN^2
Sx = 0.747 IN^3
Ix = 0.747 IN^4

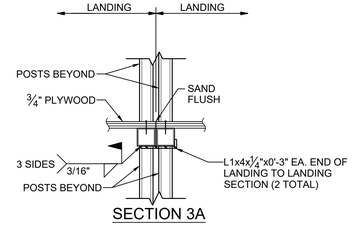
MATERIAL SHALL BE GIVEN A RUST INHIBITIVE COATING

HSS PROPERTIES — 11



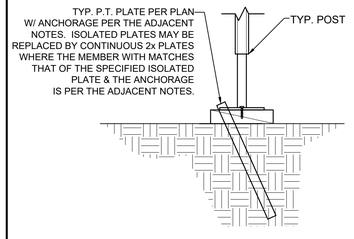
NOTE: END CAP MAY ALSO BE PLASTIC SNAP-ON CAP

END CAP DETAIL — SCALE: N.T.S. — 12



SECTION 3A

LANDING TO LANDING CONNECTION — SCALE: 3/8" = 1'-0" — 13



P.T. PLATE ANCHORAGE (ISOLATED PLATES)
ON SOIL, A/C OR CONCRETE PAVING
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE PER PLATE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL OR PAVING SURFACE. DRILL PLATE 1 3/16"Ø MAX. PIPE MAY BE DRIVEN MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ALTERNATE ON CONC. PAVING ONLY:
(2) SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2 THRU EA. PLATE w/ 3 ½" MIN. CONC. EMBEDMENT. SEE SHTS. S2.0-S2.3 FOR INSTALLATION REQUIREMENTS.

P.T. PLATE ANCHORAGE (CONTINUOUS PLATES)
ON SOIL, A/C OR CONCRETE PAVING
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV. PIPE @ 4'-0" O.C. MAX. w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL OR PAVING SURFACE. PROVIDE A MIN. OF (2) PIPE ANCHORS FOR ANY SECTION OF PLATE. DRILL PLATE 1 3/8"Ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ALTERNATE ON CONC. PAVING ONLY:
SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2 THRU PLATE @ 3'-0" O.C. MAX. w/ 3 ½" MIN. CONC. EMBEDMENT. PROVIDE A MIN. OF (2) ANCHORS FOR ANY SECTION OF PLATE. SEE SHTS. S2.0-S2.3 FOR INSTALLATION REQUIREMENTS.

P.T PLATE ANCHORAGE — SCALE: 3/8" = 1'-0" — 14

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — TIMOTHY PATRICK MURPHY — No. C12631 — Rem. 3-31-25 — STATE OF CALIFORNIA

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REVISIONS

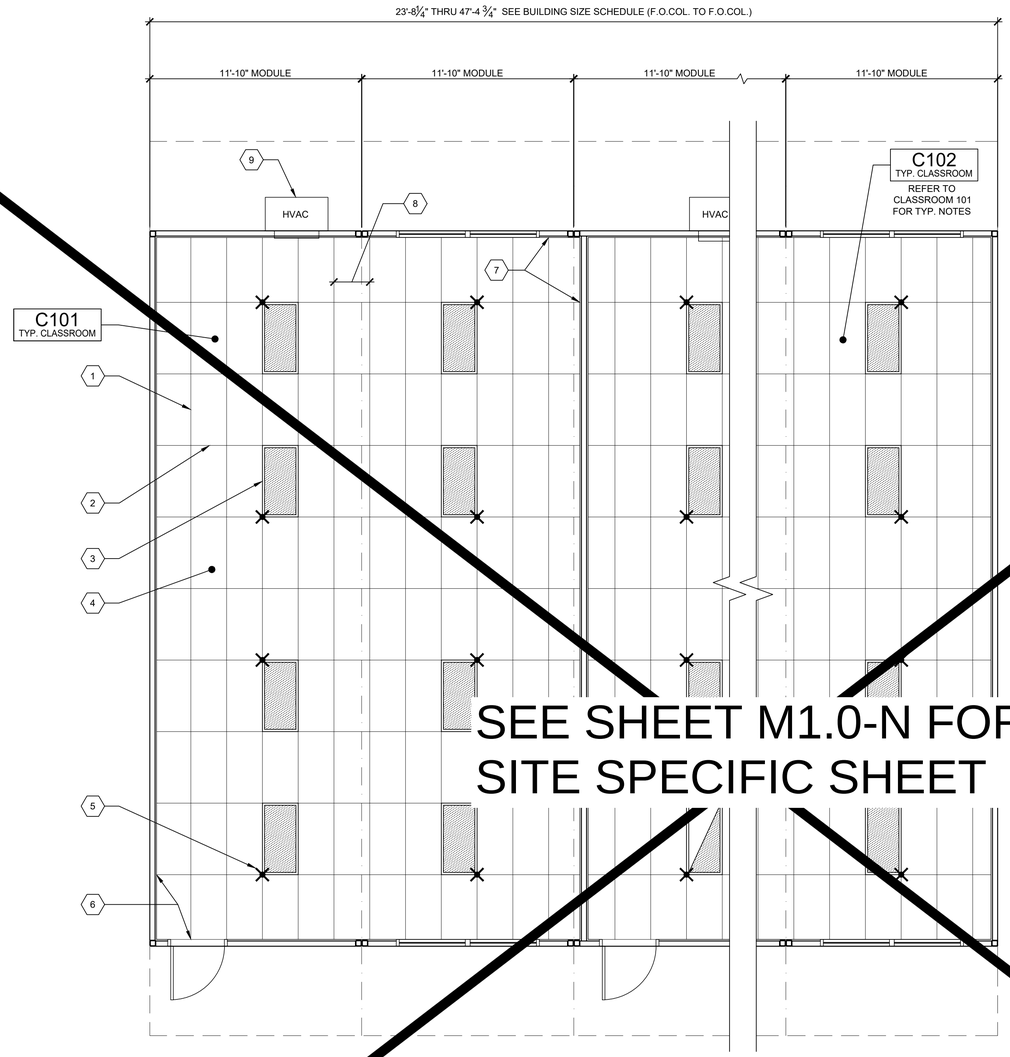
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

RAMP DETAILS

SHEET NUMBER:

S10.1



SEE SHEET M1.0-N FOR SITE SPECIFIC SHEET

TYPICAL REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" | 1

NOT USED

NOT USED

NOT USED

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8 1/4"
☐ 36'x40'	3	1	35'-6 1/2"
☐ 48'x40'	4	2	47'-4 3/4"

MEP COMPONENT ANCHORAGE NOTES

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E0.1 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6" MIN.
5. STRUT/SPLAY WIRE ASSEMBLY, SEE DETAIL 4/M1.4 FOR DETAILS
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. CENTER SECTION JOINT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
9. TYP. HVAC UNIT
10. NOT USED

KEY NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E)

MP ☒ MD ☒ PP ☒ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
JOHN PATRICK CONLEY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

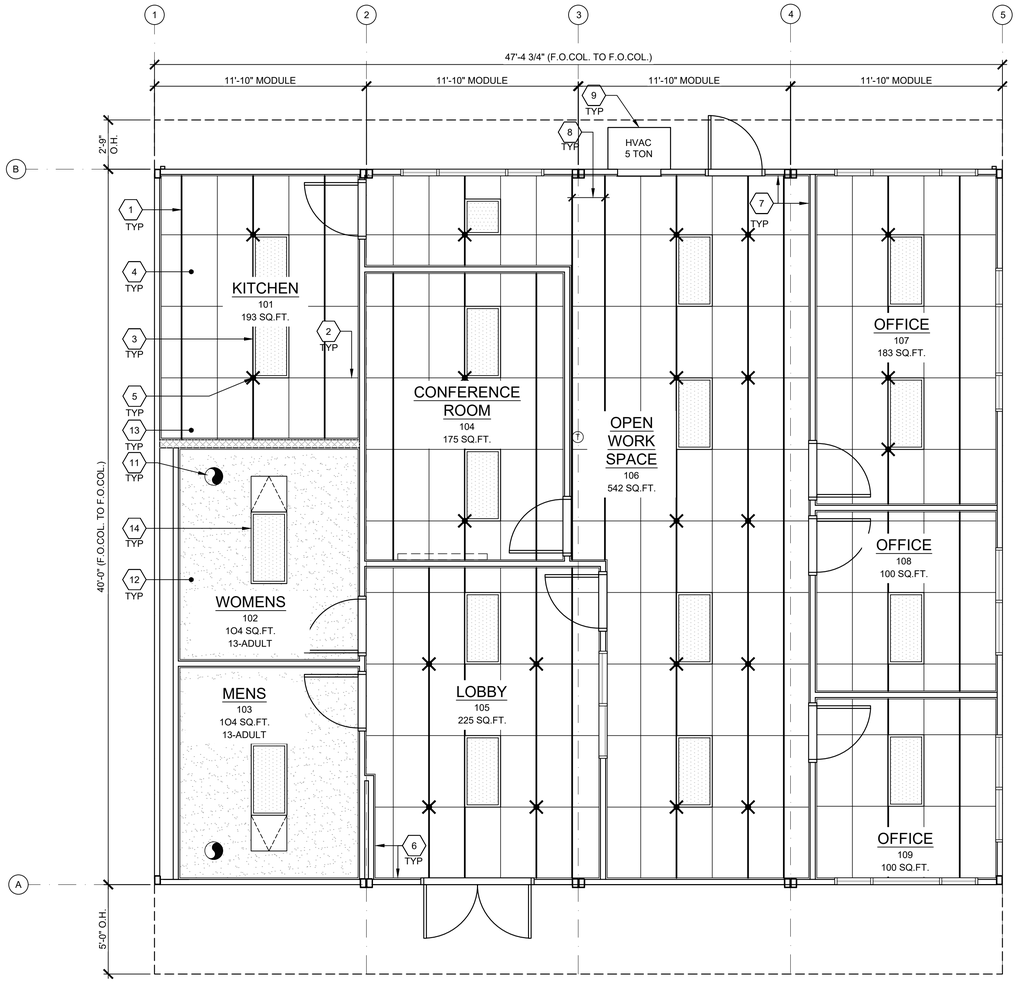
SHEET TITLE:

TYPICAL
REFLECTED CEILING
PLAN

SHEET NUMBER:

M1.0

G:\XXXX\X - [A-40x24TEMPLATE-22x34.rte] 10/26/2023 2:56:29 PM [\\?\C:\2021-03-10\2023\2023\M 1M\Sheets\M1\PC\M1.0-PC.dwg] M1.0-PC aaron.arellano 0 0 0

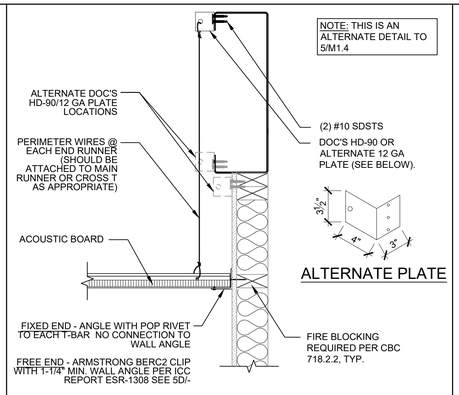


TYPICAL REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" 1

NOT USED

NOT USED



ALTERNATE PLATE

SUSPENDED CEILING AT ATTACHMENT DETAIL

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☐ 36'x40'	3	1	35'-6"
☒ 48'x40'	4	2	47'-4 3/4"

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S2.1.

BUILDING SIZE SCHEDULE

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6" MIN.
5. STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
9. TYP. HVAC UNIT
10. NOT USED
11. EXHAUST FAN - SEE M1.1
12. HARD LID CEILING TYP (CEILING HEIGHT 8'-6") PER 8/M1.6
13. T-BAR SUSPENDED CEILING TYP
14. 2'-0" x 2'-0" CEILING ACCESS HATCH

KEY NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)
6. ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

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MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☒ MD ☒ PP ☒ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

MEP COMPONENT ANCHORAGE NOTES

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DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK C. HOWARD
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

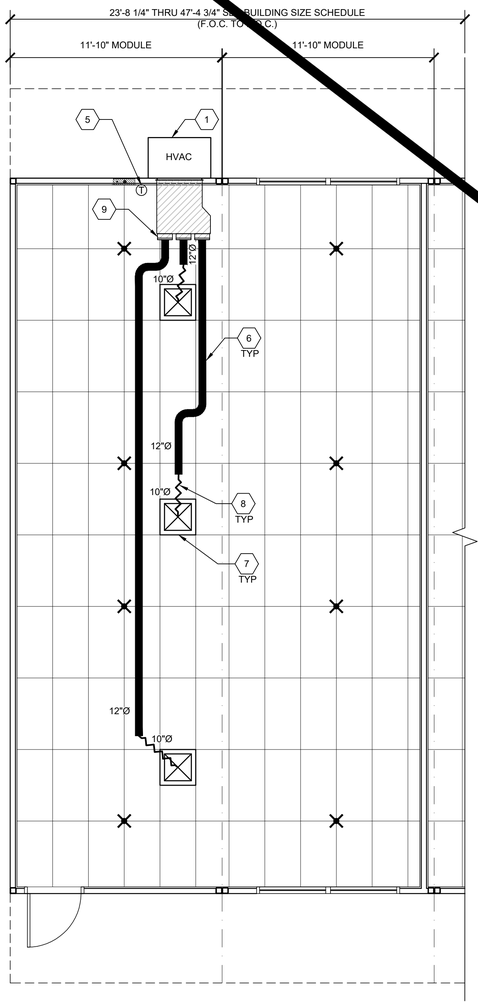
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	9/23/25
PROJECT NO:	1977-25

SHEET TITLE:

REFLECTED CEILING PLAN

SHEET NUMBER:

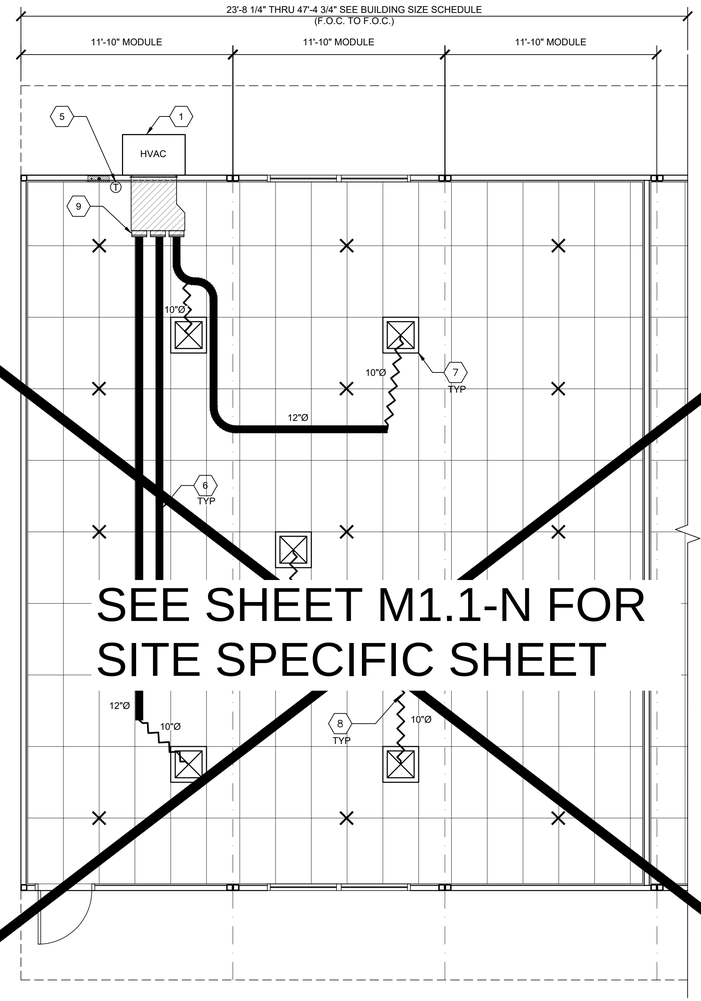
M1.0-N



WALL HUNG OPTION

SCALE: 1/4"=1'-0"

1



SEE SHEET M1.1-N FOR SITE SPECIFIC SHEET

WALL HUNG OPTION (3 WIDE CLASSROOM)

2

NOT USED

3

NOT USED

5

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
3. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.
6. ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPERCOR AND THE DISTRICT.
7. PROVIDE CO2 SENSORS AT ALL CLASSROOMS THAT MEET REQUIREMENTS OF CALGREEN 5.506.

SHEET NOTES

1. WALL HUNG HVAC UNIT - SEE 10/M1.4.
2. NOT USED
3. NOT USED
3A. NOT USED
4. NOT USED
5. THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 1/ M1.4 & 7/M1.5.
8. FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
9. RETURN AIR AS PART OF UNIT.

NOTE: FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

KEY NOTES

BUILDING SIZE (FT)	TOTAL # OF 12' WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL SIZE
☐ 24'x40'	2	0	23'-8 1/4"
☐ 36'x40'	3	1	35'-6 1/2"
☐ 48'x40'	4	2	47'-4 3/4"

BUILDING SIZE SCHEDULE

NOT USED

IDENTIFICATION STAMP
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APP: 04-124109 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
KEVIN PATRICK CARMODY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

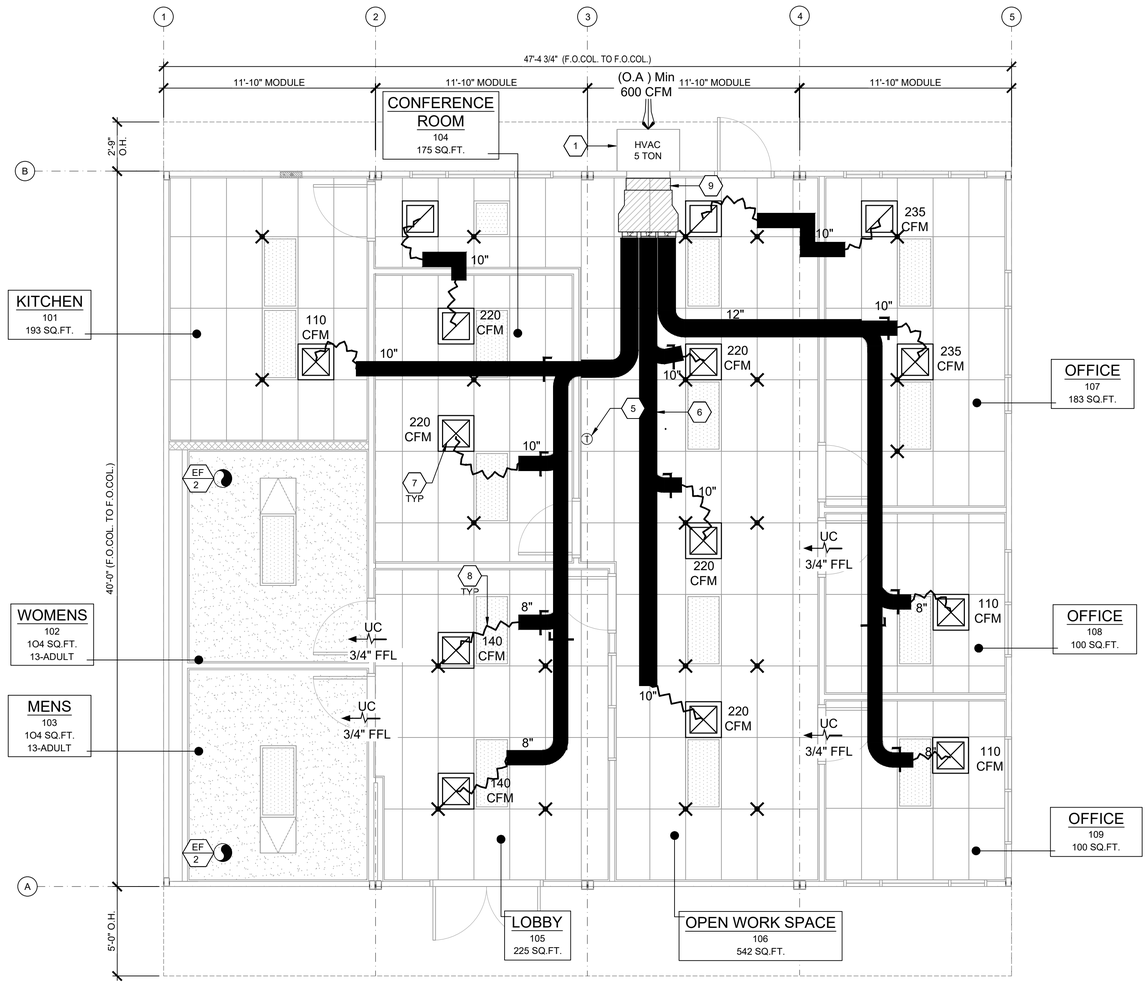
DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

TYPICAL MECHANICAL PLAN OPTIONS

SHEET NUMBER:

M1.1



MECHANICAL PLAN - WALL HUNG

SCALE: 1/4"=1'-0" | 1

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	47.3	.10"	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125"	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)
EF 3	EXHAUST FAN	308	212	.125"	120-1Ø	BROAN L300 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

NOTES:

1. VENT EXHAUST FAN THROUGH ROOF.
2. FANS MUST WEIGH LESS THAN 25 LBS.
3. FOR INSTALLATION DETAILS REFER TO 11 & 16/M1.6
4. INTERCONNECT EXHAUST FAN WITH LIGHT SWITCH/OCCUPANCY SENSOR.

SHEET NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
3. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.
6. ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.
7. PROVIDE CO 2 SENSORS ONLY IN 36'X40' BUILDINGS IN ZONE 6 THROUGH 15. REFER TO EN1. SHEET.

KEY NOTES

1. WALL HUNG HVAC UNIT - SEE 10/M1.4.
2. NOT USED
3. NOT USED
3A. NOT USED
4. NOT USED
5. THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 1/ M1.4 & 7/M1.5.
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DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CAMPBELL
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

1	-
2	
3	
4	

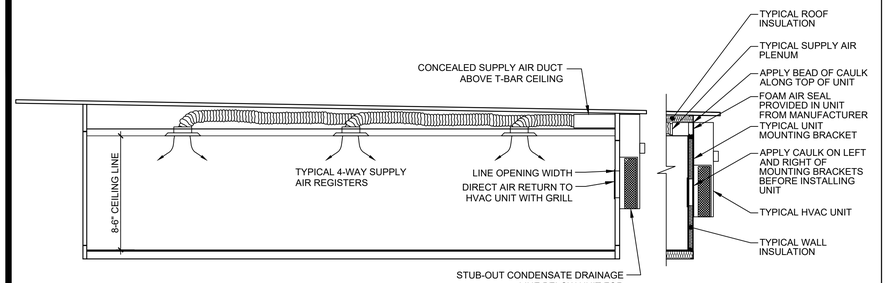
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	9/23/25
PROJECT NO:	1977-25

SHEET TITLE:

MECHANICAL PLAN

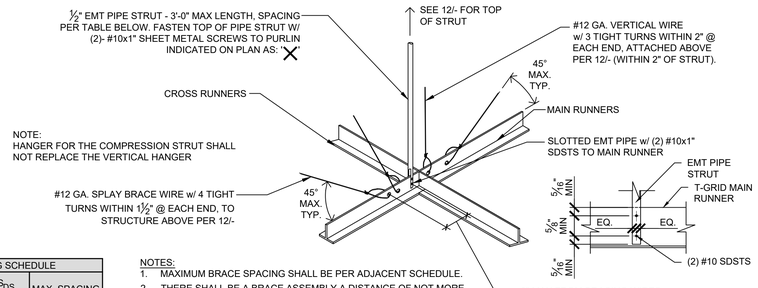
SHEET NUMBER:

M1.1-N



TYPICAL MECHANICAL SECTION

SCALE: 3/16" = 1'-0" | 1

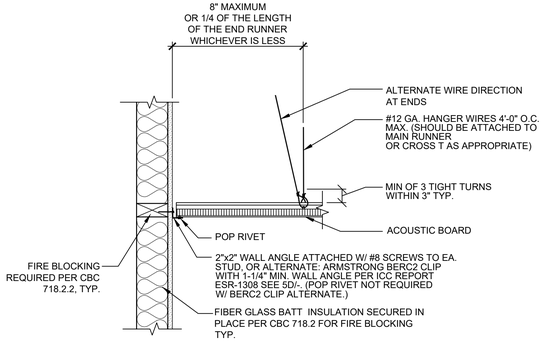


BRACING SCHEDULE	
SITE SPECIFIC S_{DS} (PER SHEET TS)	MAX. SPACING
☐ $S_{DS} \le 1.15$	12'x12'
☒ $1.15 \le S_{DS} \le 1.73$	8'x12'
☐ $S_{DS} > 1.73$	8'x8'

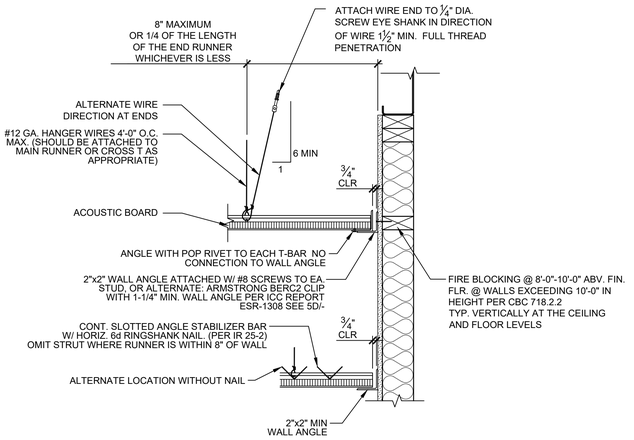
NOTES:
1. MAXIMUM BRACE SPACING SHALL BE PER ADJACENT SCHEDULE.
2. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8'x12", THE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING. FOR FURTHER INFORMATION REFER TO SPECIFICATIONS ON SHEET M1.7.

STRUT/SPLAY WIRE ASSEMBLY DETAIL

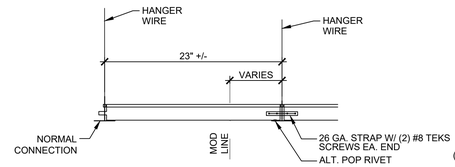
NOT TO SCALE | 2



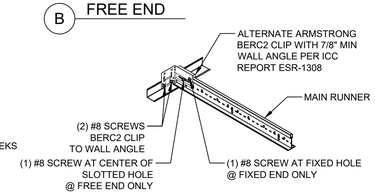
A FIXED END



B FREE END



C RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE



D ALTERNATE BERC2 CLIP DETAIL

NOTE:
NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

SUSPENDED CEILING ATTACHMENT DETAILS

SCALE: 1-1/2" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

. . .

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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REVISIONS

1	
2	
3	
4	

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

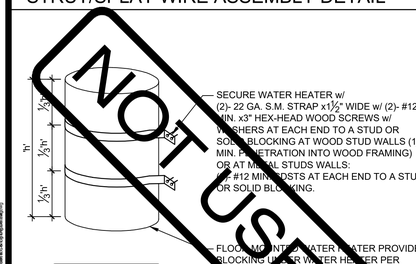
SHEET TITLE:

MECHANICAL AND CEILING DETAILS

SHEET NUMBER:

M1.4

NOT USED

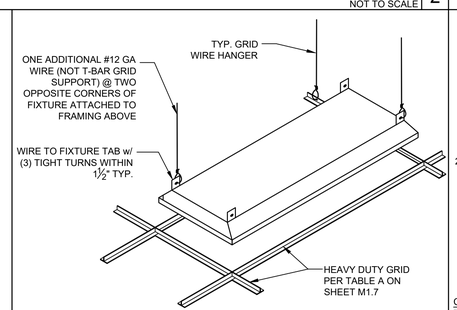


MAX WATER HEATER WEIGHT = 400 LBS

WATER HEATER STRAP DETAIL

NOT TO SCALE | 6

NOT USED



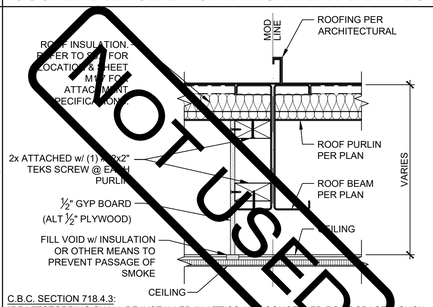
PROVIDE (1) #8x¾" SMS THRU GRID TO LIGHT FIXTURE @ 2 MIN. CORNERS

NOTE: FIXTURE WEIGHT LESS THAN OR EQUAL TO 56 LBS

LIGHT FIXTURE ATTACHMENT

NOT TO SCALE | 7

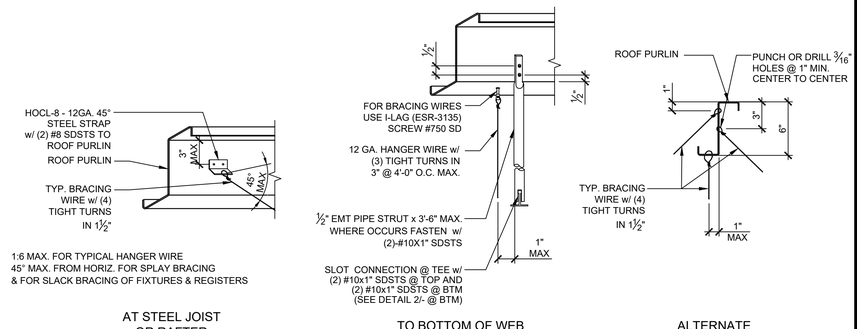
NOT USED



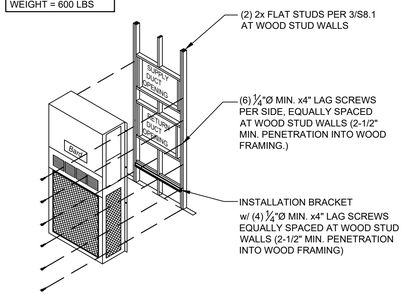
C.B.C. SECTION 718.4.3:
"DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET."
NOTE EXCEPTION #2:
IN GROUP A, E, H, I, L OCCUPANCIES, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS MAY BE 9,000 SQUARE FEET AND THE GREATEST HORIZONTAL DISTANCE MAY BE 100 FEET.

CEILING DRAFT STOP DETAIL

SCALE: 1-1/2" = 1'-0" | 8



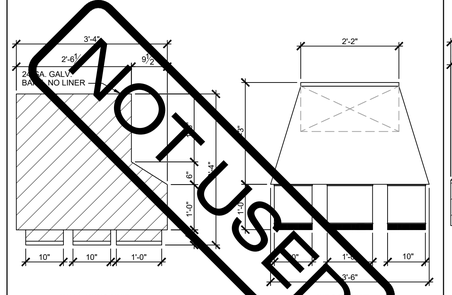
MAX HVAC UNIT WEIGHT = 600 LBS



WALL MOUNT HVAC ANCHORAGE

NOT TO SCALE | 9

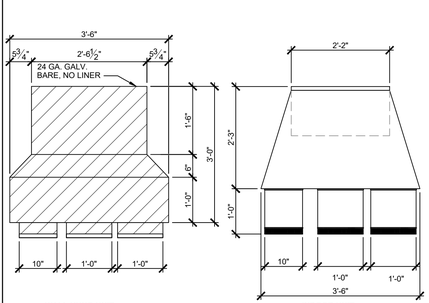
NOT USED



SCALE: 3/4"=1'-0"

WALL HUNG HVAC PLENUM DETAIL (4T)

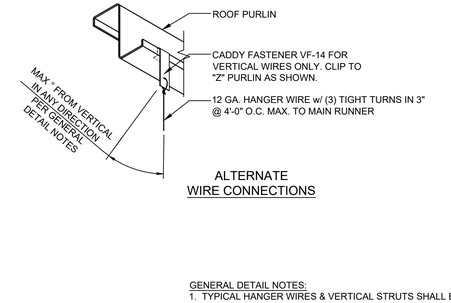
10

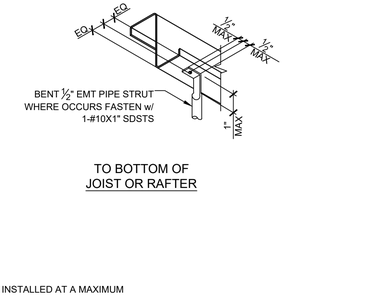


SCALE: 3/4"=1'-0"

WALL HUNG HVAC PLENUM DETAIL (5T)

11



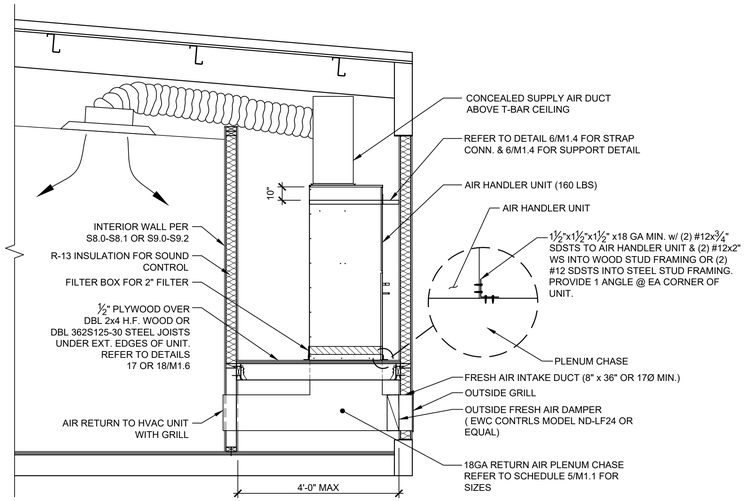


GENERAL DETAIL NOTES:
1. TYPICAL HANGER WIRES & VERTICAL STRUTS SHALL BE INSTALLED AT A MAXIMUM 1:6 ANGLE FROM VERTICAL.
2. TYPICAL SPLAY BRACING WIRES & WIRES FOR SLACK BRACING OF FIXTURES OR REGISTERS SHALL BE INSTALLED AT A MAXIMUM 45° ANGLE FROM THE SURFACE TO WHICH THEY ARE ATTACHED.

SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

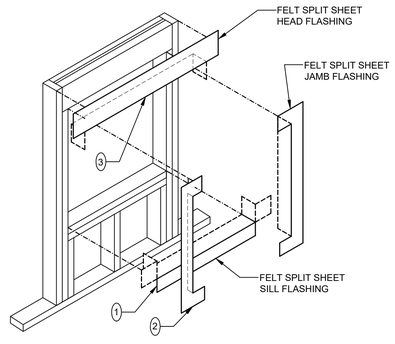
NOT TO SCALE | 12

G:\XXXX-21 (AA-AM)\ARCHIVE\25-26\10-25\10/25/2023 2:57:07 PM 10/25/2023 2:57:07 PM C:\Program Files\Autodesk\Revit 2024\AMS\2024\2024_AMS_Central_R24.rvt

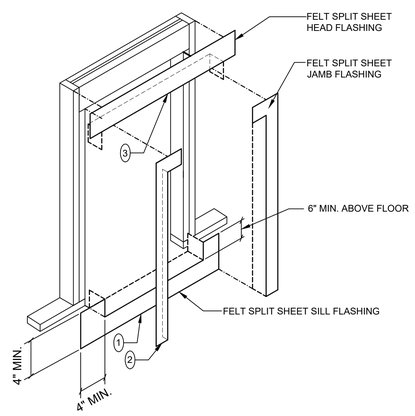


NOTE: OUTSIDE AIR DUCT MUST INCLUDE A DAMPER THAT WILL FULLY CLOSE WHEN INDOOR FAN SHUTS DOWN PER SECTION 120.2(F).

NOT USED | 1



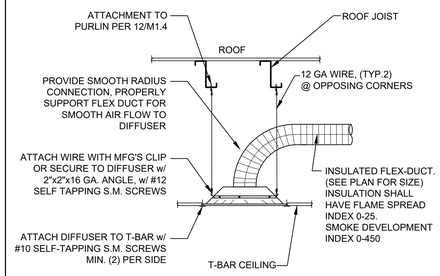
WINDOW CONDITION



DOOR CONDITION

(#) = SEQUENCE OF ORDER

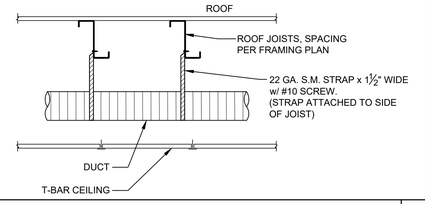
FLASHING @ WALL OPENINGS | NOT TO SCALE | 2



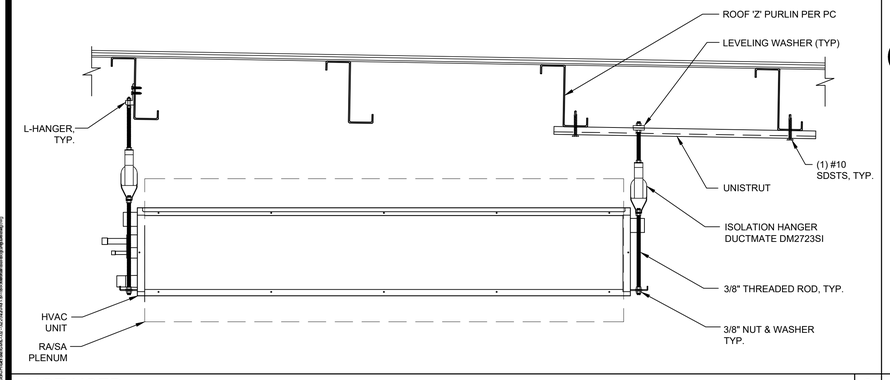
REGISTER MOUNTING DETAIL | NOT TO SCALE | 7

NOTES:

1. DUCTWORK SHALL BE SUPPORTED FROM ROOF JOISTS AT 4'-0" O.C.MAX TO ELIMINATE SAGGING.
2. FLEX DUCT (5'-0" MAX LENGTH) SHALL BE PULLED TIGHT TO ELIMINATE SAGGING.
3. DUCT TO PLENUM ATTACHMENT SHALL BE (3) #8 SCREWS & COVERED WITH 367-17 TAPE (UL181B-FX).
4. FOR DUCT ATTACHMENT TO DIFFUSER - SEE DETAIL 7/-.
5. ALL DUCTS TO BE SEALED WITH 367 MASTIC TAPE, OUTSIDE OF THE INSULATING LINER ON THE FLEX DUCT TO BE SEALED WITH 558CA CODE APPROVED DUCT TAPE.



FLEX DUCTING SUPPORT DETAIL | NOT TO SCALE | 8



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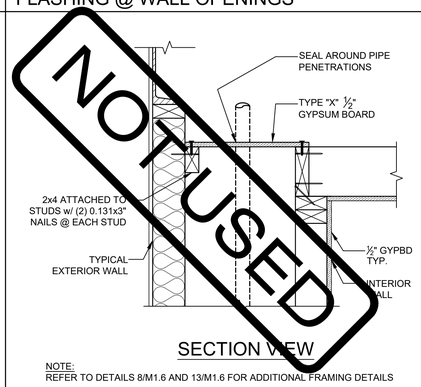
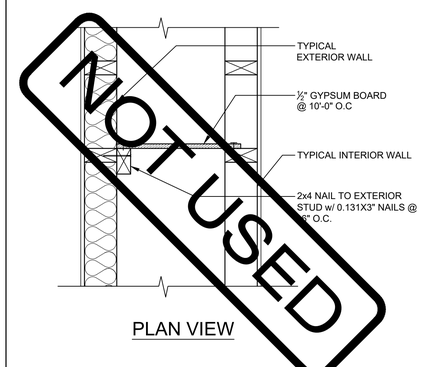


NOT USED

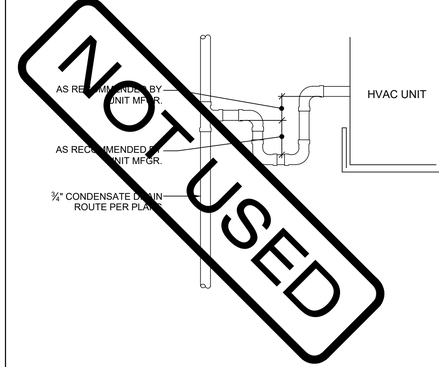
NOTE:
REFER TO DETAILS 8/M1.6 AND 13/M1.6 FOR ADDITIONAL FRAMING DETAILS

DRAFT STOP @ PLUMBING CHASE | SCALE: 1" = 1'-0" | 4



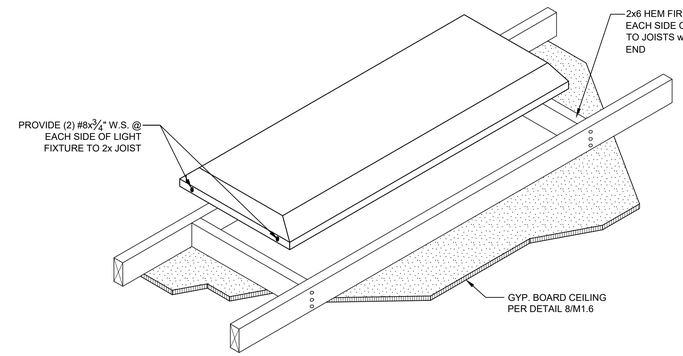
NOT USED

DRAFT STOP @ PLUMBING CHASE | SCALE: 1" = 1'-0" | 5



NOT USED

CONDENSATE DETAIL | NOT TO SCALE | 9



LIGHT FIXTURE ATTACHMENT DETAIL | NOT TO SCALE | 6A

NOT USED | 6B

GAS CONNECTION DETAIL | NOT TO SCALE | 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANDREW PATRICK O'HARA — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

MECHANICAL & CEILING DETAILS

SHEET NUMBER:

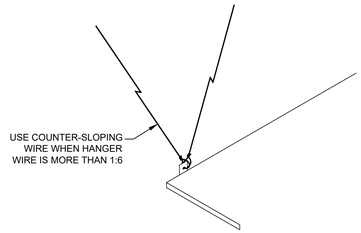
M1.5

D:\XXXX - [a-z]+\M\M1.5.dwg 10/26/2023 8:36:03 AM PDT

NOT USED 1

NOT USED 2

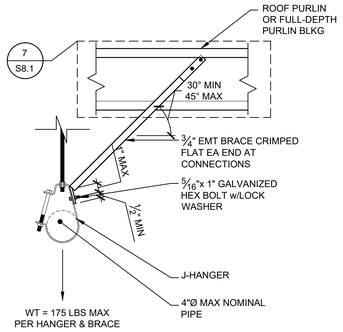
NOT USED 3



NOTE:
ONLY APPLICABLE FOR WIRES PROVIDING LATERAL BRACING FOR THE SUSPENDED CEILING SYSTEM.
NOT ALLOWED FOR SPLAY WIRES.

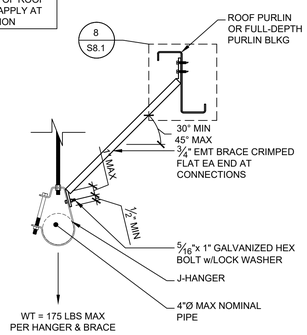
COUNTERSLOPING WIRE 1-1/2" = 1'-0" 4

NOT USED 5

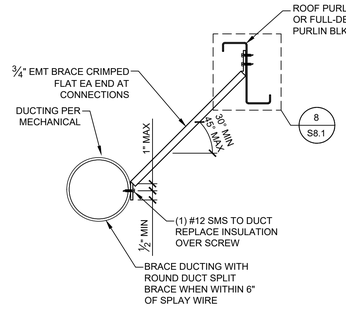


J-HANGER PIPE BRACE DETAIL (PERPENDICULAR) 1-1/2" = 1'-0" 6

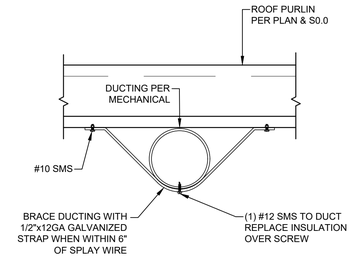
EMT BRACE TO BE LOCATED 1'-0" MAX FROM END OF ROOF PURLIN (DOES NOT APPLY AT ROOF BLKG CONDITION



J-HANGER PIPE BRACE DETAIL (PARALLEL) 1-1/2" = 1'-0" 7



HVAC BRACE TO PURLIN ALTERNATE DETAIL 1-1/2" = 1'-0" 8



HVAC BRACE TO PURLIN PERPENDICULAR DETAIL 1-1/2" = 1'-0" 9

NOT USED 10

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APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

CEILING & MECHANICAL DETAILS

SHEET NUMBER:

M1.5A

NOT USED 1

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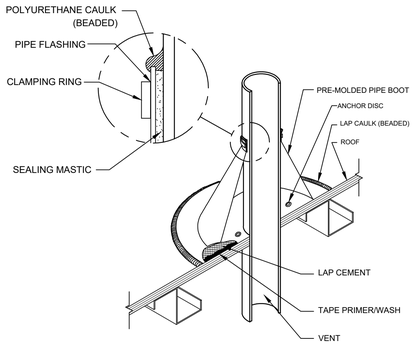

VENT THRU ROOF PENETRATION DETAIL NOT TO SCALE 2

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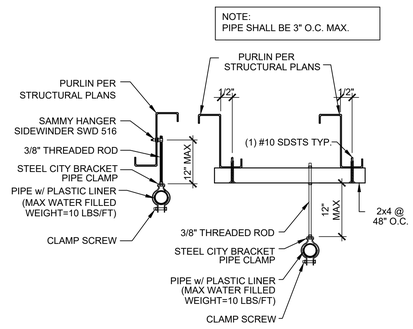
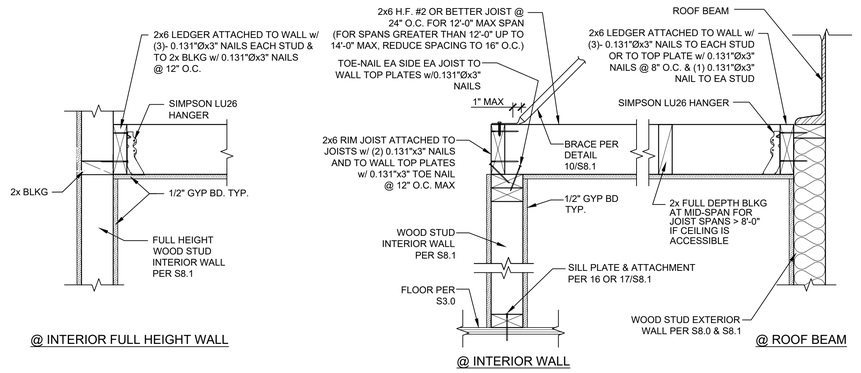


NOTES:
50 LBS MAXIMUM LOAD PER HANGER
100 LBS MAXIMUM LOAD PER ROOF PURLIN

PIPE HANGER DETAIL SCALE: 1-1/2" = 1'-0" 5

NOT USED 6

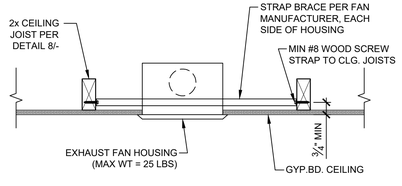


GYPSUM BOARD CEILING DETAIL w/ WOOD STUDS OPTION SCALE: 1-1/2" = 1'-0" 8

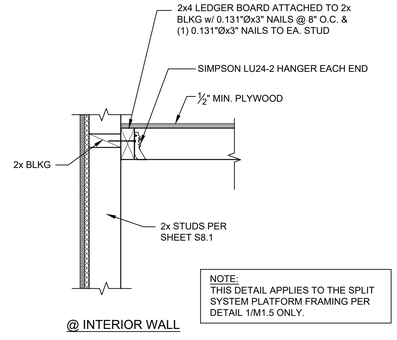
NOT USED 15

EXHAUST FAN @ T-BAR CEILING MOUNT 11

NOT USED 13



EXHAUST FAN @ GYP.BD. CEILING MOUNT 16



NOTE:
THIS DETAIL APPLIES TO THE SPLIT SYSTEM PLATFORM FRAMING PER DETAIL 1/M1.5 ONLY.

DETAIL @ WOOD STUD OPTION SCALE: 1-1/2" = 1'-0" 17

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK HOWE
No. C12631
Ren. 9-31-25
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

MECHANICAL
ROOF DETAILS

SHEET NUMBER:

M1.6

ID:XXXX, job-#:04-124109,DOC#:M1.6R-GEN-SS-MECH-DETAILS.dwg, M1.6R-GEN-SS-MECH-DETAILS - 02/12/2026 11:41:18 AM, by: Adam Arvizu, Plotted by: Adam Arvizu

1. IT IS THE RESPONSIBILITY OF THE AOR & EOR TO ENSURE THAT ALL SPECIFICATIONS MEET THE MINIMUM REQUIREMENTS OF THE CURRENT EDITIONS OF THE CALIFORNIA STATE TITLES 19 & 24. APPROVAL OF THESE SPECIFICATIONS DOES NOT CONSTITUTE APPROVAL FOR WAIVER OR ANY REQUIREMENTS OF THOSE REGULATIONS.
2. CEILING NOTES BASED ON IR 25-2, APPENDIX A - REFER TO DSA IR 25-2 FOR COMPLETE LIST.

SUSPENDED LAY-IN PANEL CEILING: PER DSA IR 25-2 2019 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

MANUFACTURER: **ARMSTONG (OR EQUAL)**

PRODUCT NAME: **PRELUDE XL AND PRELUDE XL HIGH RECYLED CONTENT(HRC) ICC**

EVALUATION REPORT TYPE AND NUMBER: **ESR#1308**

MAIN RUNNER PART, MODEL, OR CATALOG NUMBR: **7301**

CROSS RUNNER PART, MODEL, CATALOG NUMBER: **4' CROSS T # XL7341 & 2' CROSS T # XL8320**

1.04 SEISMIC WALL CLIP: BERC2 CLIP MANUFACTURER'S MODEL: 7810

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINARIES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¾" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.

2. MATERIALS

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70 KSI.

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 43 MIL (18 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (F_Y) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (F_U) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).

4. FASTENERS AND WELDING

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 N/A

4.03 N/A

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER

4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRE-STRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.

4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING

5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.

5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.

6. LUMINARIES

6.01 ALL LUMINARIES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINARIES. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINARIES, PER ASTM E580 SECTION 5.3.1.

6.02 SURFACE-MOUNTED LUMINARIES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN A LUMINARY IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

6.03 LUMINARIES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LUMINARIES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.

EXCEPTION: ALL LUMINARIES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.

6.05 ALL LUMINARIES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

TABLE A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	SEISMIC WALL CLIPS	ICBO ER REPORT
~~DONN/USG~~	~~DX-26~~	~~DX-424~~	~~DX-216~~	~~5C/M1.4~~	~~BERC2~~	~~ICC-ESR-1222~~
ARMSTRONG	7301	XL7341	XL8320	5C/M1.4	BERC2	ICC-ESR-1308
~~CHICAGO/ROCKFON~~	~~200.01~~	~~1274.01~~	~~1202.01~~	~~5C/M1.4~~	~~BERC2~~	~~ICC ESR-2631~~

NOTES:
1. ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER
2. REFER TO 'A' DETAIL 5/M1.4 FOR BERC2 CLIP DETAIL

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Ren. 3-31-25
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CEILING NOTES
& SPECIFICATIONS

SHEET NUMBER:

M1.7

D:\XXXX-24\Arch\Exhibits\Ex-26-ADD-SS-SD\2023\Submittal 24\2023\SD-SS\2023\Submittal 24\~$2023 SD-SS Submittal 24.dwg, 10/26/2023 8:59:08 AM, Raymond Chan

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.

   A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER
   B. THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.

2. DUCTWORK

   A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

   B. NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
   C. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (MINIMUM R=4.2) HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
   D. SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALLIGN WITH THE HVAC UNIT.
   E. FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.

4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"X8"X1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".

5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.

6. AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.
   THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
   C. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
   D. KEY BOARD LOCKOUT SWITCH.
   E. PROGRAMMABLE DISPLAY.
   F. 2-HOUR OVERRIDE MINIMUM.
   G. STATUS INDICATED LED'S.
   H. BATTERY BACK-UP.
   I. PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX.
   (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)

7. THERMAL INSULATION
   A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF ROOF SHEATHING.
   B. WALLS INSULATION: R-13 KRAFT FACED. (R-4 INSULATION OVER INTERIOR SIDE METAL FRAMED WALLS) 17/A5.1 AND 17/A5.3
   C. NON-CONCRETE FLOORS INSULATION: R-13
   D. CONCRETE FLOORS INSULATION: N/A
   E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
   F. BURNING CHARACTERISTICS: FLAME SPREAD LESS THAN 25 & SMOKE DEVELOPMENT IS LESS THAN 50

8. FACTORY-MADE AIR DUCTS
   A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   B. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   C. DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE X26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
   D. SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE X26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
   E. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
   F. SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.

9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
   A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES
   B. AT THE CEILING AND FLOOR LEVELS
   C. AND AT 10-FOOT (3048MM) INTERVALS BOTH VERTICAL AND HORIZONTAL.
   REFERENCE 2022 CBC SECTION 718.

10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
    (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")

11. HVAC FILTER
    A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2022 CEC SECTION 5.504.5.3
    D. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2022 CBC SECTION 5.504.5.3.1

10. ROOF MOUNTED HVAC
    A. A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.

13. HVAC CONTROLS
    A. THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(C)1.

14. UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

HEATING VENTILATING AND AIR CONDITIONING (HVAC) continue

15. THE CALIFORNIA ENERGY CODE 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

16. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

17. A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT:
    HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
    THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

18. THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2022 SECTION 110.2(B).

HVAC NOTES

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER
BARD WALL HUNG	W42HC	3½ TON HEAT PUMP	1350	500	11
	W48HC	4 TON HEAT PUMP	1550	505	11
SYSTEM AIR INDOOR	CAH-3	4 TON HEAT PUMP	1600	948	11
	CAH-5	5 TON HEAT PUMP	1800	948	11

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMANCE BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LIST OF CERTIFIED ATT'S CAN BE FOUND AT:
HTTP://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

H2 FAN SYSTEMS

BUILDING SIZE	DESIGN OSA
	CFM
~~24'x40'~~	~~364.8~~
~~36'x40'~~	~~547.2~~
48'x40'	368.8

MINIMUM INSULATION SCHEDULE

ZONE GROUP (ZONE)	WALL	ROOF		FLOORS
		BATTS	RIGID	
~~GROUP A (1,16)~~	~~R-13~~	~~R-19~~	~~R-15~~	~~R-13~~
~~GROUP B (2-5)~~	~~R-13~~	~~R-19~~	~~R-5~~	~~R-13~~
GROUP C (6-13)	R-13	R-19	R-5	R-13
~~GROUP D (14,15)~~	~~R-13~~	~~R-19~~	~~R-5~~	~~R-13~~

ADDITIONAL HVAC NOTES:
MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e). ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

HVAC SCHEDULES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME
24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RAYMOND PATRICK CHAVEZ
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:
MECHANICAL NOTES & SCHEDULES

SHEET NUMBER:
M1.7A

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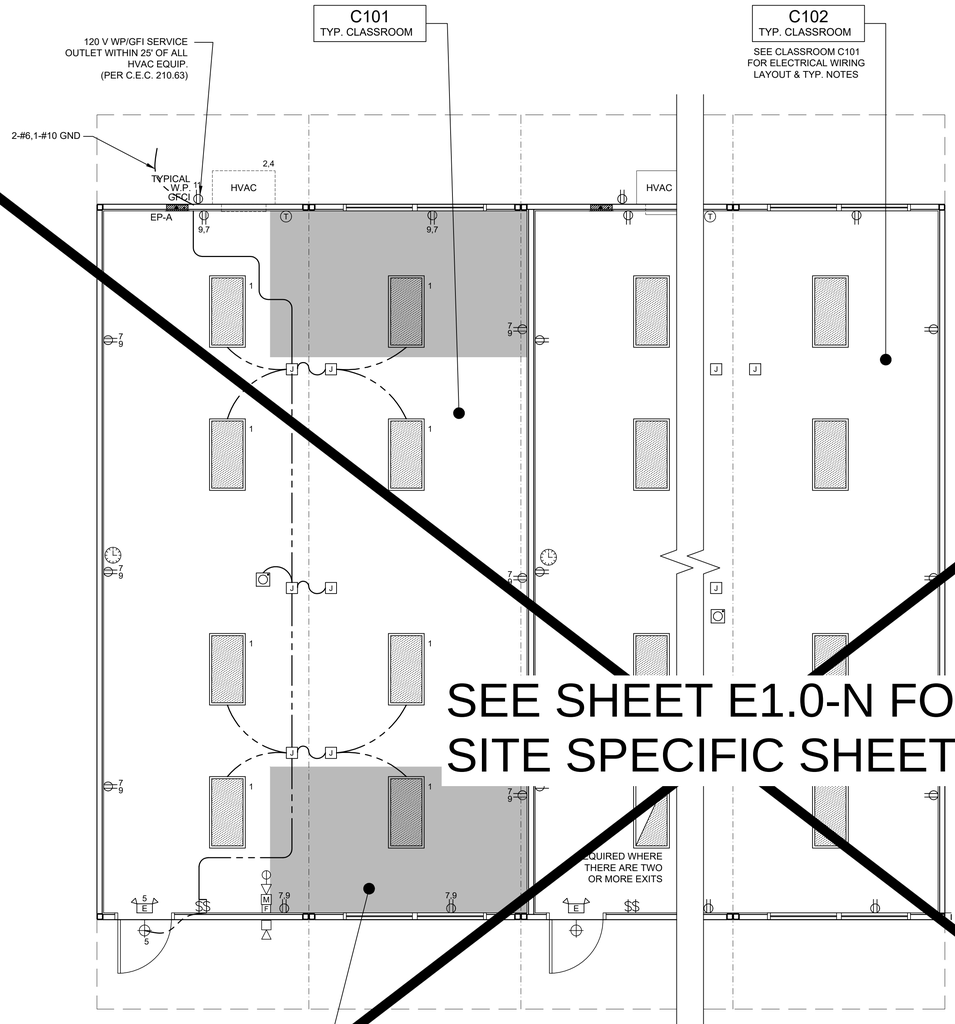


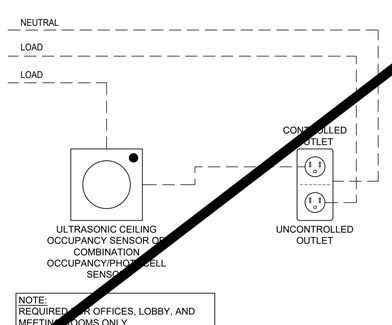
SEE SHEET E1.0-N FOR SITE SPECIFIC SHEET

TYPICAL ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0" | 1

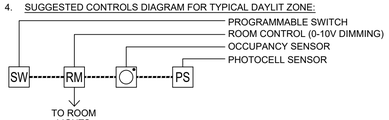
TYP. CONTROLLED/UNCONTROLLED RECEPTACLE WIRING DIAGRAM

N.T.S. | 2



ENERGY NOTES

1. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
3. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

GENERAL NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).
5. ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPERCOR AND THE DISTRICT.

STANDARD ELECTRICAL SYMBOLS

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE MODEL: LEVITON 9850-LED, 10W MAX
- EXTERIOR LIGHT FIXTURE @ EACH DOOR - LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BS-WL7LED-50 LOW PROFILE CANOPY, LED OR EQUAL (MAX 16W)
- UNCONTROLLED DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WP/GFCI — WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI — GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- $ — CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- $SS — SINGLE POLE SOLA-TUBE SWITCH - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- $T — SPRING WOUND COUNTDOWN TIMER, 125-277 VAC, 50/60 Hz, DSPT, 60 MINUTE MAX, ITEM FD460MW OR EQUAL. - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- :a — SWITCH SUBSCRIPTS - a=DEVICE CONTROLLED.
- T — THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F.
- J — JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- J — ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1- 4"x1", #22- 4"x2"
- CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS
- S — SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CATV — CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 3/4" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY OTHERS
- INTERCOM/TELEPHONE - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT TOP OF BOX @ +48" A.F.F. U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- S — SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- DC — DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING - DEVICE BY OTHERS
- M — MOTION SENSOR OUTLET - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING
- F — FIRE ALARM PULL STATION - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - TOP OF OPERATING HANDLE MOUNTED BETWEEN +42" TO +48" A.F.F. - DEVICE BY OTHERS
- FIRE ALARM HORN - OUTLET ONLY - 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER - MOUNTED +90" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- M — MINI HORN BOX - OUTLET ONLY - SINGLE DEVICE RING AND COVER - MOUNTED +80" A.F.F. TO CENTERLINE BUT NO GREATER THAN +96" - DEVICE BY OTHERS
- VISUAL FIRE ALARM ALARM - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT SO THAT LENS IS BETWEEN 80"-96" A.F.F. (CEILING MOUNT PER NFPA72 TABLE 6-4.4.1(b)) DEVICE BY OTHERS.
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
- 24 HOUR EMERGENCY LIGHTING WITH MINIMUM 90-MINUTE BATTERY BACK-UP - WHERE TWO OR MORE EXITS ARE REQUIRED
- E — EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90 MINUTE BATTERY BACK-UP IS REQUIRED.
- EXTERIOR SOFFIT MOUNTED LIGHTING PER MODEL ABOVE WITH EMERGENCY 90 MIN. MINIMUM BATTERY BACK-UP, PROVIDED BY THE STAIR LANDINGS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — JOSEPH PATRICK GIANNOLA — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

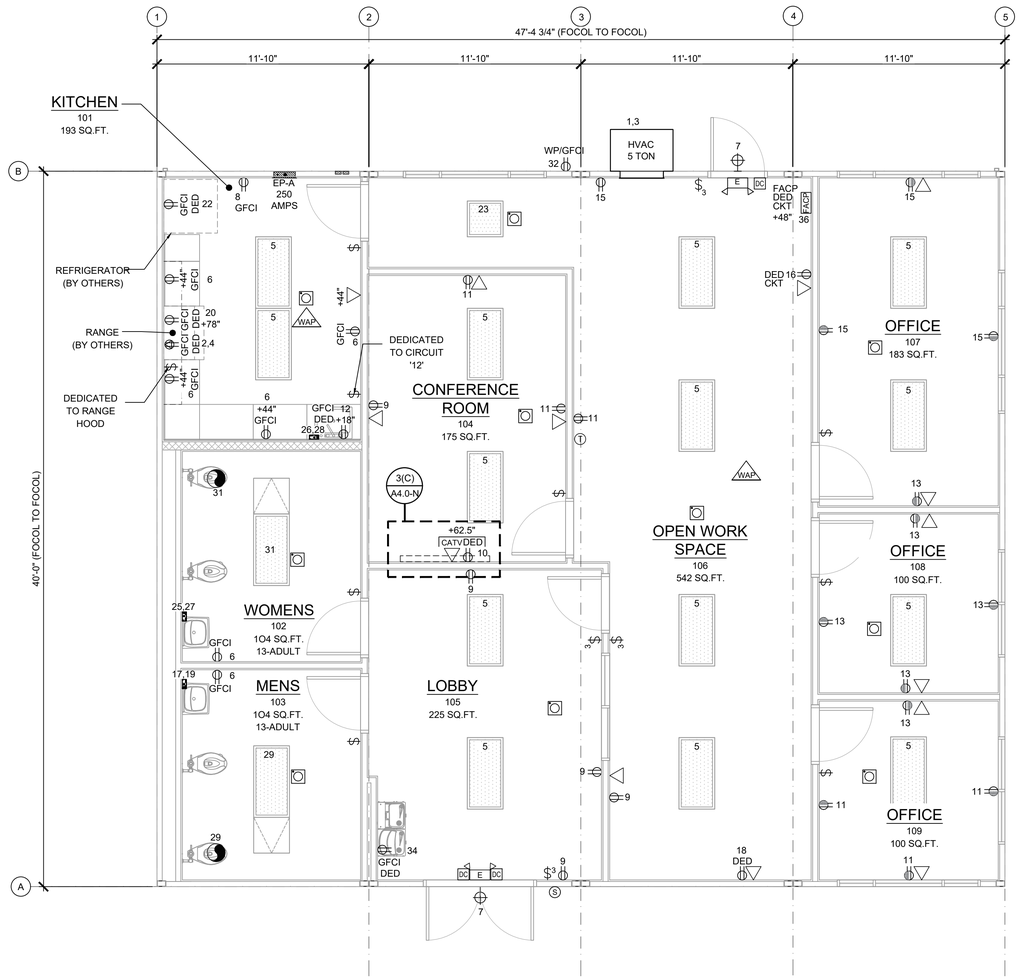
SHEET TITLE:

TYPICAL ELECTRICAL PLAN

SHEET NUMBER:

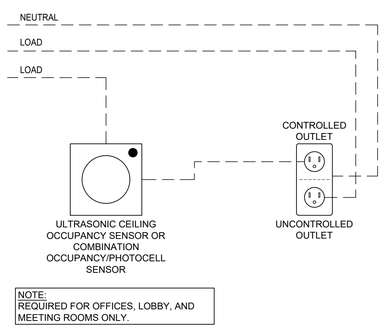
E1.0

02-XXXX-24-e8-e8-E0E8D8-0A-00-00-00E8D8-00-e8-00-00E8D8-00-e8-00-00E8D8-00-e8



ELECTRICAL PLAN (LEFT HAND BUILDING)

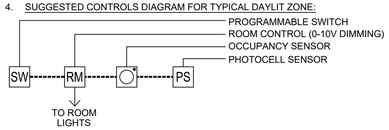
SCALE: 1/4" = 1' - 0" | 1



NOTE:
REQUIRED FOR OFFICES, LOBBY, AND MEETING ROOMS ONLY.

TYP. CONTROLLED/UNCONTROLLED RECEPTACLE WIRING DIAGRAM N.T.S. | 2

1. AUTOMATIC DAYLIGHTING CONTROLS:
NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
3. SOLAR-READY ZONE REQUIREMENTS:
REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).
5. ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPERCOR AND THE DISTRICT.

GENERAL NOTES

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET 208V - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WP/GFCI WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- CONTROLLED-SINGLE POLE LIGHT 3 WAY SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- CONTROLLED-SINGLE POLE LIGHT SWITCH w/ BUILT IN OCCUPANCY SENSOR - MOUNT @ +44" A.F.F. MAX TO TOP OF BOX - LEVITON ODS10-ID OR SIMILAR
- THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F.
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 1" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CATV CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 1-1/2" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
- E EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.
- DC DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING - DEVICE BY OTHERS
- S SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- FACP FIRE ALARM CONTROL PANEL - PROVIDE 2-GANG, 4" SQ. BOX WITH WIRE COILED UP FOR HARDWIRE OF FACP (BY SITE CONTRACTOR.) MOUNT @ +5'-6" A.F.F.
- WAP FLUSH CEILING MOUNTED WI-FI DATA JACK OUTLET BOX (4 11/16" SQ. WITH 1-GANG MUD RING) (R.I. NOT BY AMS, SHOWN FOR COORDINATION PURPOSES ONLY)
- ELECTRICAL INSTANT-TEMPERATURE WATER HEATER - SEE PLUMBING
- EXHAUST FAN - SEE REFLECTED CEILING PLANS

STANDARD ELECTRICAL SYMBOLS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRENDAN PATRICK O'DONNELL
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD

REVISIONS

1	-
2	
3	
4	

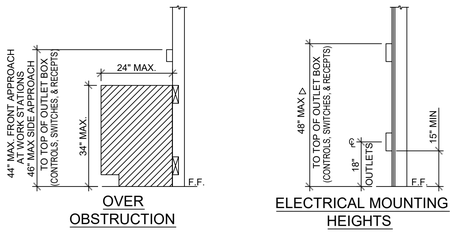
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

SHEET TITLE:

TYPICAL
ELECTRICAL PLAN

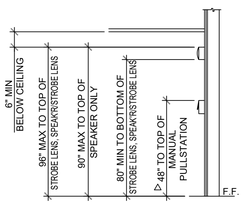
SHEET NUMBER:

E1.0-N



OVER OBSTRUCTION

ELECTRICAL MOUNTING HEIGHTS



△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

FIRE ALARM MOUNTING HEIGHTS

ACCESSIBLE HEIGHTS

250.52 GROUNDING ELECTRODES.

250.52(A) ELECTRODES PERMITTED FOR GROUNDING.

(1) METAL UNDERGROUND WATER PIPE. A METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 3.0 M (10 FT) OR MORE (INCLUDING ANY METAL WELL CASING BONDED TO THE PIPE) AND ELECTRICALLY CONTINUOUS (OR MADE ELECTRICALLY CONTINUOUS BY BONDING AROUND INSULATING JOINTS OR INSULATING PIPE) TO THE POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR AND THE BONDING CONDUCTOR(S) OR JUMPER(S), IF INSTALLED.

(2) METAL IN-GROUND SUPPORT STRUCTURE(S). ONE OR MORE METAL IN-GROUND SUPPORT STRUCTURE(S) IN DIRECT CONTACT WITH THE EARTH VERTICALLY FOR 3.0 M (10 FT) OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT. IF MULTIPLE METAL IN-GROUND SUPPORT STRUCTURES ARE PRESENT AT A BUILDING OR A STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.

INFORMATIONAL NOTE: METAL IN-GROUND SUPPORT STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO, PILINGS, CASINGS, AND OTHER STRUCTURAL METAL.

(3) CONCRETE-ENCASED ELECTRODE. A CONCRETE-ENCASED ELECTRODE SHALL CONSIST OF AT LEAST 6.0 M (20 FT) OF EITHER (1) OR (2):

(1) ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 13 MM (1⁄2 IN.) IN DIAMETER, INSTALLED IN ONE CONTINUOUS 6.0 M (20 FT) LENGTH, OR IF IN MULTIPLE PIECES CONNECTED TOGETHER BY THE USUAL STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE A 6.0 M (20 FT) OR GREATER LENGTH; OR

(2) BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG

METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 50 MM (2 IN.) OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. IF MULTIPLE CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.

INFORMATIONAL NOTE: CONCRETE INSTALLED WITH INSULATION, VAPOR BARRIERS, FILMS OR SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN "DIRECT CONTACT" WITH THE EARTH.

(4) GROUND RING. A GROUND RING ENCIRCLING THE BUILDING OR STRUCTURE, IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 6.0 M (20 FT) OF BARE COPPER CONDUCTOR NOT SMALLER THAN 2 AWG.

(5) ROD AND PIPE ELECTRODES. ROD AND PIPE ELECTRODES SHALL NOT BE LESS THAN 2.44 M (8 FT) IN LENGTH AND SHALL CONSIST OF THE FOLLOWING MATERIALS.

(A) GROUNDING ELECTRODES OF PIPE OR CONDUIT SHALL NOT BE SMALLER THAN METRIC DESIGNATOR 21 (TRADE SIZE 3⁄4) AND, WHERE OF STEEL, SHALL HAVE THE OUTER SURFACE GALVANIZED OR OTHERWISE METAL-COATED FOR CORROSION PROTECTION.

(B) ROD-TYPE GROUNDING ELECTRODES OF STAINLESS STEEL AND COPPER OR ZINC COATED STEEL SHALL BE AT LEAST 15.87 MM (5⁄8 IN.) IN DIAMETER, UNLESS LISTED.

(6) OTHER LISTED ELECTRODES. OTHER LISTED GROUNDING ELECTRODES SHALL BE PERMITTED.

(7) PLATE ELECTRODES. EACH PLATE ELECTRODE SHALL EXPOSE NOT LESS THAN 0.186 M2 (2 SQ FT) OF SURFACE TO
STEEL PLATE
NONFERROU

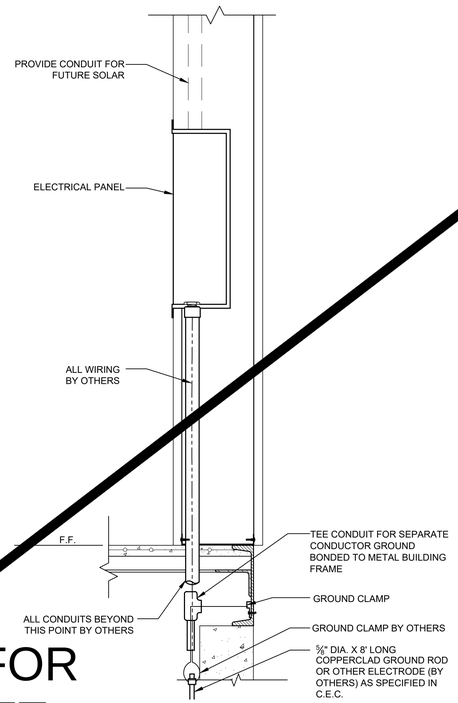
(8) OTHER LC
SYSTEMS OR
WELL CASIN

(B) NOT PERM
THE FOLLOW

(1) METAL UNDERGROUND GAS PIPING SYSTEMS
(2) ALUMINUM
(3) THE STRUCTURES AND STRUCTURAL REINFORCING STEEL DESCRIBED IN 680.26(B)(1) AND (B)(2)

INFORMATIONAL NOTE:
SEE 250.104(B) FOR BONDING REQUIREMENTS OF GAS PIPING.

SEE SHEET E1.2-N FOR SITE SPECIFIC SHEET



ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1' - 0"

1. SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
3. ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

VOLTS:120/240 SINGLE PHASE						PANEL: "EP-A"						FEED: EXTERIOR		
MAIN: 100 AMP MAIN LUGS						LOCATION: INTERIOR						MOUNTING: RECESS		
LOAD	WATTS		BRK.		CKT	A	B	CKT	BRK.		WATTS		LOAD
	A	B	AMP	P					P	AMP	A	B	
LIGHTS	360		20	1	1			2	2	80	7680		HVAC
EXTERIOR LIGHTS		100	20	1	3			4	-	-		7680	HVAC
EMERG. EXIT LIGHTS	100		20	1	5			6					SPACE
CLOCK		100	20	1	7			8					FUTURE SOLAR*
RECEPTS	1080		20	1	9			10					
RECEPTS		720	20	1	11			12					
GFI RECEPTS	180		20	1	13			14					
SPARE					15			16					
					17			18					
					19			20					
					21			22					
					23			24					
					25			26					
					27			28					
					29			30					
PHASE WATTAGE	1720	920									7680	7680	PHASE WATTAGE
TOTAL WATTS "A" LEG =	9400		TOTAL WATTS A+B=		18000			TOTAL WATTS "B" LEG =			8600		
TOTAL WATTS =	18000		75	AMPS	120/240V			SINGLE PHASE			125 AMP BUS.		
FEEDERS: 3-#2 & 1-#8 CU. TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.													

NOTES:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

* PROVIDE CONDUIT OUT OF PANEL FOR FUTURE SOLAR.

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS: INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2022 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
4. ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APPD RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED IN THIS BUILDING.
   C. IF 60 DEGREES CORE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING CAPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
THOMAS PATRICK CONLEY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:

ELECTRICAL NOTES & DETAILS

SHEET NUMBER:

E1.2

G:\XXXX\...\[redacted]

NOT USED

SCALE: N.T.S. | 1

MINIMUM GROUNDING ROD REQUIREMENTS:

250.52 GROUNDING ELECTRODES.

250.52(A) ELECTRODES PERMITTED FOR GROUNDING.

(1) METAL UNDERGROUND WATER PIPE. A METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 3.0 M (10 FT) OR MORE (INCLUDING ANY METAL WELL CASING BONDED TO THE PIPE) AND ELECTRICALLY CONTINUOUS (OR MADE ELECTRICALLY CONTINUOUS BY BONDING AROUND INSULATING JOINTS OR INSULATING PIPE) TO THE POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR AND THE BONDING CONDUCTOR(S) OR JUMPER(S), IF INSTALLED.

(2) METAL IN-GROUND SUPPORT STRUCTURE(S). ONE OR MORE METAL IN-GROUND SUPPORT STRUCTURE(S) IN DIRECT CONTACT WITH THE EARTH VERTICALLY FOR 3.0 M (10 FT) OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT. IF MULTIPLE METAL IN-GROUND SUPPORT STRUCTURES ARE PRESENT AT A BUILDING OR A STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.

INFORMATIONAL NOTE: METAL IN-GROUND SUPPORT STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO, PILINGS, CASINGS, AND OTHER STRUCTURAL METAL.

(3) CONCRETE-ENCASED ELECTRODE. A CONCRETE-ENCASED ELECTRODE SHALL CONSIST OF AT LEAST 6.0 M (20 FT) OF EITHER (1) OR (2):

(1) ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 13 MM (1⁄2 IN.) IN DIAMETER, INSTALLED IN ONE CONTINUOUS 6.0 M (20 FT) LENGTH, OR IF IN MULTIPLE PIECES CONNECTED TOGETHER BY THE USUAL STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE A 6.0 M (20 FT) OR GREATER LENGTH; OR

(2) BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG

METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 50 MM (2 IN.) OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. IF MULTIPLE CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.

INFORMATIONAL NOTE: CONCRETE INSTALLED WITH INSULATION, VAPOR BARRIERS, FILMS OR SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN "DIRECT CONTACT" WITH THE EARTH.

(4) GROUND RING. A GROUND RING ENCIRCLING THE BUILDING OR STRUCTURE, IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 6.0 M (20 FT) OF BARE COPPER CONDUCTOR NOT SMALLER THAN 2 AWG.

(5) ROD AND PIPE ELECTRODES. ROD AND PIPE ELECTRODES SHALL NOT BE LESS THAN 2.44 M (8 FT) IN LENGTH AND SHALL CONSIST OF THE FOLLOWING MATERIALS.

(A) GROUNDING ELECTRODES OF PIPE OR CONDUIT SHALL NOT BE SMALLER THAN METRIC DESIGNATOR 21 (TRADE SIZE 3⁄4) AND, WHERE OF STEEL, SHALL HAVE THE OUTER SURFACE GALVANIZED OR OTHERWISE METAL-COATED FOR CORROSION PROTECTION.

(B) ROD-TYPE GROUNDING ELECTRODES OF STAINLESS STEEL AND COPPER OR ZINC COATED STEEL SHALL BE AT LEAST 15.87 MM (5⁄8 IN.) IN DIAMETER, UNLESS LISTED.

(6) OTHER LISTED ELECTRODES. OTHER LISTED GROUNDING ELECTRODES SHALL BE PERMITTED.

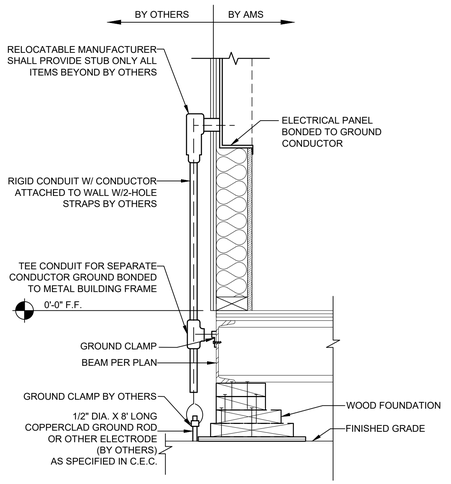
(7) PLATE ELECTRODES. EACH PLATE ELECTRODE SHALL EXPOSE NOT LESS THAN 0.186 M2 (2 FT2) OF SURFACE TO EXTERIOR SOIL. ELECTRODES OF BARE OR ELECTRICALLY CONDUCTIVE COATED IRON OR STEEL PLATES SHALL BE AT LEAST 6.4 MM (1⁄4 IN.) IN THICKNESS. SOLID, UNCOATED ELECTRODES OF NONFERROUS METAL SHALL BE AT LEAST 1.5 MM (0.06 IN.) IN THICKNESS.

(8) OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES. OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES SUCH AS PIPING SYSTEMS, UNDERGROUND TANKS, AND UNDERGROUND METAL WELL CASINGS THAT ARE NOT BONDED TO A METAL WATER PIPE.

(B) NOT PERMITTED FOR USE AS GROUNDING ELECTRODES
THE FOLLOWING SYSTEMS AND MATERIALS SHALL NOT BE USED AS GROUNDING ELECTRODES:

(1) METAL UNDERGROUND GAS PIPING SYSTEMS
(2) ALUMINUM
(3) THE STRUCTURES AND STRUCTURAL REINFORCING STEEL DESCRIBED IN 680.26(B)(1) AND (B)(2)

INFORMATIONAL NOTE:
SEE 250.104(B) FOR BONDING REQUIREMENTS OF GAS PIPING.



1. SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
3. ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

NOT USED | 2

ELECTRICAL PANEL CONNECTION DETAIL - ABOVE FLOOR OPTION

SCALE: 1-1/2" = 1' - 0" | 3

Panel: EP-A | PHASE: SINGLE | VOLTS: 120/208 | MAIN (AMPS): 250 AMP | BUSS (AMPS): 300 AMP | LOCATION: INTERIOR | FEED: OUT BACK - ABOVE FLOOR | MOUNTING: RECESSED

OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	CKT #	LEG A	LEG B	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
5TON HVAC	7400	1		7400		70	2	#4	1	X		2	#8	2	40	3500			1	3500	RECEP DED (RANGE)
	7400				7400			#4	3		X	4	#8				3500		1	3500	
2X4 LIGHT	50	13		650		20	1	#12	5	X		6	#12	1	20	1080			6	180	RECEP (GFCI)
EXTERIOR LIGHT	25	2			50	20	1	#12	7		X	8	#12	1	20		180		1	180	RECEP (GFCI)
RECEP	180	6		1080		20	1	#12	9	X		10	#12	1	20	180			1	180	RECEP DED (TV)
RECEP	180	6			1080	20	1	#12	11		X	12	#12	1	20		1500		1	1500	RECEP DED (DISPOSAL)
RECEP	180	6		1080		20	1	#12	13	X		14				0					
RECEP	180	4			720	20	1	#12	15		X	16	#12	1	20		1500		1	1500	RECEP DED (COP)
INSTAHOT	2400	1		2400		20	1	#12	17	X		18	#12	1	20	1500			1	1500	RECEP DED (COP)
	2400				2400	20	1	#12	19		X	20	#12	1	20		240		1	240	RANGE HOOD
				0					21	X		22	#12	1	20	1600			1	1600	RECEP DED (REF)
2X2 LIGHT	40	1			40	20	1	#12	23		X	24					0				
INSTAHOT	2400	1		2400		20	1	#12	25	X		26	#12	1	20	2400			1	2400	INSTAHOT
	2400				2400	20	1	#12	27		X	28	#12	1	20		2400			2400	
2X4 LIGHT & EF(MENS)	100	1		100					29	X		30				0					
2X4 LIGHT & EF(WOMENS)	100	1			100				31		X	32	#12	1	20		180		1	180	RECEP (WP/GFCI)
				0					33	X		34	#12	1	20	15			1	15	RECEP (GFCI) DRIKING FOUNTAIN
					0				35		X	36	#12	1	20		800		1	800	FIRE ALARM*
				0					37	X		38				0					
					0				39		X	40					0				
				0					41	X		42				0					
	LEG TOTALS			15110	14190											10275	10300		LEG TOTALS		

LCL=0+49875=49875

TOTAL WATTS: 49875 | LEG BALANCE: 1.8% | TOTAL AMPS: 207.81

* RED MARKING WITH LOCKING DEVICE PER NFPA 72 10.6.5.2.3 & 10.6.5.4

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2022 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
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GENERAL NOTES

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DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
BRENDAN PATRICK CAMPION
No. C12631
Ren. 8-31-27
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1 -
2
3
4
5

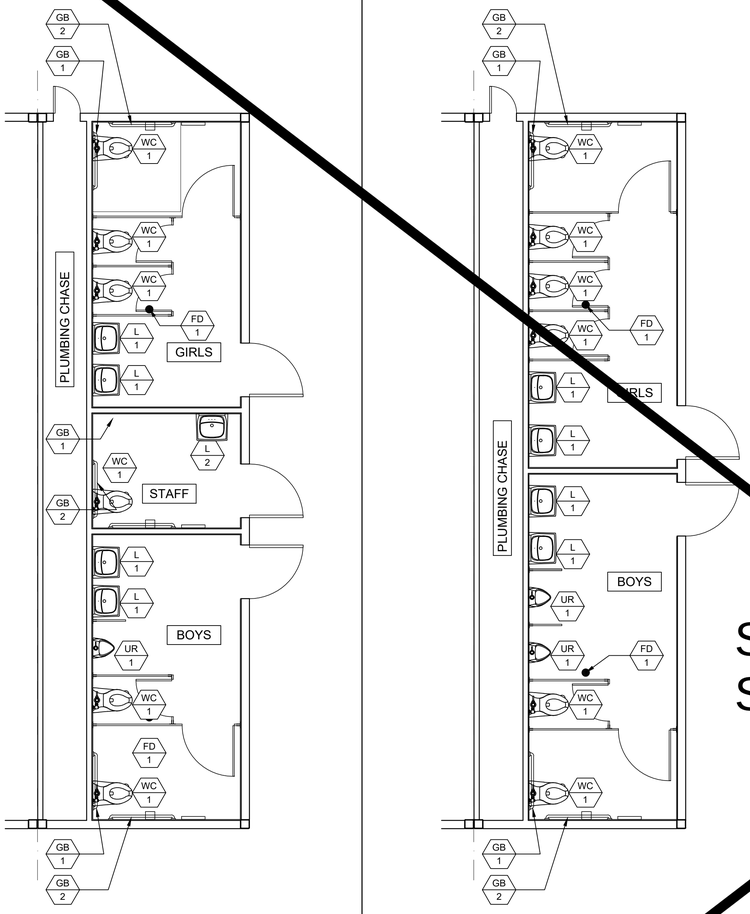
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

SHEET TITLE:

ELECTRICAL NOTES & DETAILS

SHEET NUMBER:

E1.2-N



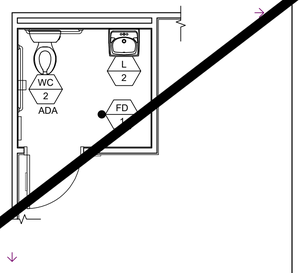
BOYS, GIRLS & STAFF R.R. PLAN SCALE: 1/4" = 1'-0" 1

BOYS & GIRLS R.R. PLAN SCALE: 1/4" = 1'-0" 2

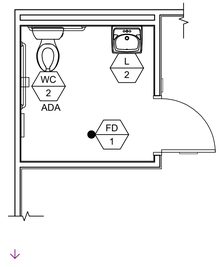
MARK	FIXTURE[1]	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 2 / 1 / ACC	WALL MOUNT WATER CLOSET	CANNOT USE	CANNOT USE	KOHLER 'KINGSTON' MODEL K-84325 OR EQUAL. LOWEST AT 16" A.F.F. TO TOP OF SEAT w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	KOHLER 'KINGSTON' MODEL K-84325 OR EQUAL. LOWEST AT 17" A.F.F. TO TOP OF SEAT w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
WC 2	FLOOR MOUNT TANK TYPE	AMERICAN STANDARD w/BEMIS 1955SSCT OR EQUAL TOILET SET	AMERICAN STANDARD w/2L205T SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	KOHLER 'WELLWORTH' MODEL K-3998 OR EQUAL w/BEMIS 1955SSCT OR EQUAL TOILET SEAT	KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL w/BEMIS 1955SSCT OR EQUAL TOILET SEAT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
WC 3 / ACC / OPTIONAL	FLOOR MOUNT FLUSH VALVE	KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL. w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL w/2L205T (2" THICK) TOILET SEAT OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-98053 OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL Z86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1 / ACC	URINAL	WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL Z6003-AV (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE 10/P2.0
GB 1 / GB 2	36" GRAB BARS / 48" GRAB BARS	WALL MOUNT TYPE MOEN MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36"& 48") OR EQUAL				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
WH 1	WATER HEATER (WH)	RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHAS				AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P2.0
TWH 1	INSTANT-TEMP WATER HEATER	CHRONOMITE INSTANT-TEMP WATER HEATER MODEL 240 INSTANT SINGLE PHASE 104"				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
	CUSTODIAN SINK	TERRESTONE FLOOR SINK				ZURN 843-MI-RC OR EQUAL
						CAITLIN CBK110CP OR EQUAL
FD 1	FLOOR DRAIN	SIOUX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. PROVIDE GRATE WITH MAX 1/2" OPENINGS, MEASURED IN BOTH DIRECTIONS
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-05 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.) PROVIDE GRATE WITH MAX 1/2" OPENINGS, MEASURED IN BOTH DIRECTIONS
CS 1	CLASSROOM SINK	DAYTON MODEL D12521 25"x21-1/4" SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
DF 1	DRINKING FOUNTAIN	ELKAY MODEL EDFP217C WALL MOUNT WATER FOUNTAIN OR EQUAL				
HB 1	HOSE BIBB	STANDARD HOSE BIBB ARROWHEAD MODEL 353LKLF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION [illegible]03.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
4. THERE SHOULD BE NO SHARP OR ABRASIVE SURFACES UNDER LAVS OR SINKS.
5. REFER TO DETAIL 10/P2.0 FOR SCHEDULE OF ACCESSIBLE HEIGHTS AT FIXTURES.
6. THE FIXTURES SHOWN ON THIS TABLE ARE CBC/ADA COMPLIANT AND WILL BE INSTALLED AT ACCESSIBLE HEIGHTS. SAME FIXTURES ARE USED FOR NON-ACCESSIBLE.

PLUMBING FIXTURE SCHEDULE



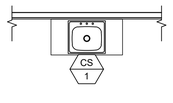
SINGLE TOILET PLAN
FRONT WALL APPROACH SCALE: 1/4" = 1'-0" 6



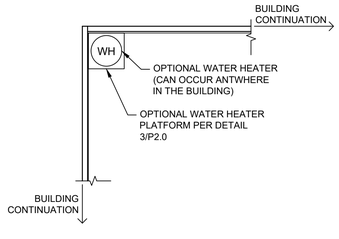
SINGLE TOILET PLAN
SIDE WALL APPROACH SCALE: 1/4" = 1'-0" 7

A 1 = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SYMBOLS LEGEND



CLASSROOM SINK PLAN SCALE: 1/4" = 1'-0" 8



OPTIONAL WATER HEATER SCALE: 1/4" = 1'-0" 9

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
7. REFER TO DETAILS 1, 3, & 4, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB-OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.
10. SEE SHEET M1.0 FOR MEP COMPONENT ANCHORAGE NOTES.

GENERAL NOTES

SEE SHEET P1.0-N FOR SITE SPECIFIC SHEET

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME
24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122043 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☑
DATE: 10/26/2023

2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK J. HOWARD
No. C12631
Ren. 8-31-25
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	A.A.
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE

SHEET NUMBER:
P1.0

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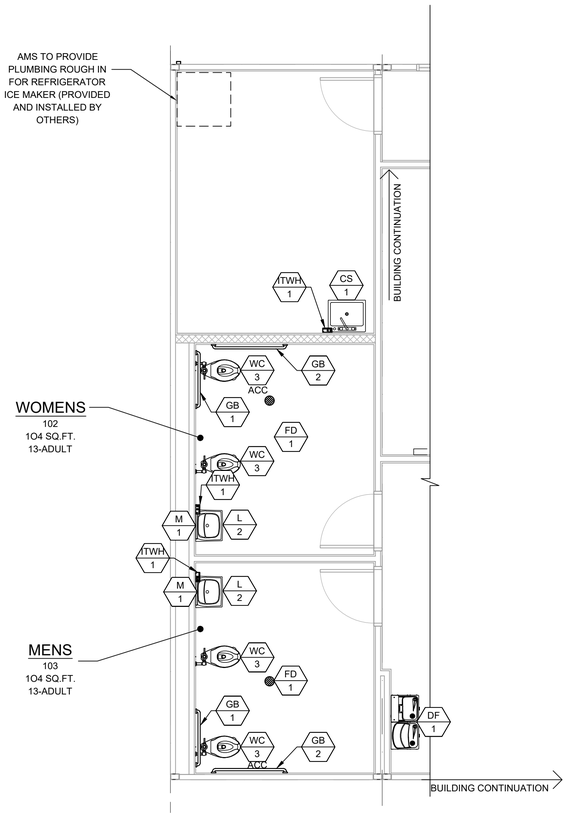

MARK	FIXTURE[1]	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 2 / 1 / ACC	WALL MOUNT WATER CLOSET	CANNOT USE	CANNOT USE	KOHLER 'KINGSTON' MODEL K-84325 OR EQUAL. LOWEST AT 16" A.F.F. TO TOP OF SEAT w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	KOHLER 'KINGSTON' MODEL K-84325 OR EQUAL. LOWEST AT 17" A.F.F. TO TOP OF SEAT w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
WC 2	FLOOR MOUNT TANK TYPE	AMERICAN STANDARD w/BEMIS 1955SSCT OR EQUAL TOILET SET	AMERICAN STANDARD w/2L205OT SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	KOHLER 'WELLWORTH' MODEL K-3998 OR EQUALw/BEMIS 1955SSCT OR EQUAL TOILET SEAT	KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL w/BEMIS 1955SSCT OR EQUAL TOILET SEAT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
WC 3 / ACC OPTIONAL	FLOOR MOUNT FLUSH VALVE	KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL w/2L205T (2" THICK) TOILET SEAT OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE: KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL Z86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1 ACC	URINAL	WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL Z6003-AV (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE 10/P2.0
GB 1 / GB 2	36" GRAB BARS / 48" GRAB BARS	WALL MOUNT TYPE MOEN MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36"& 48") OR EQUAL				18 GA, 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
WH 1	WATER HEATER	RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHASE				AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P2.0
ITWH 1	INSTANT-TEMP WATER HEATER	CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104°				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
FS 1	CUSTODIAN SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL				ZURN 843-MI-RC OR EQUAL
ULS 1	UTILITY SINK	WALL MOUNT TYPE FLORESTONE FM OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1	FLOOR DRAIN	WOOD FLOOR DRAIN SIOUIX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. PROVIDE GRATE WITH MAX 1/2" OPENINGS, MEASURED IN BOTH DIRECTIONS
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.) PROVIDE GRATE WITH MAX 1/2" OPENINGS, MEASURED IN BOTH DIRECTIONS
CS 1	CLASSROOM SINK	DAYTON MODEL D12521 25"x21-1/4" SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
DF 1	DRINKING FOUNTAIN	ELKAY MODEL EZH2O VRCTLDDWSKWALL MOUNT WATER FOUNTAIN OR EQUAL				
HB 1	HOSE BIBB	STANDARD HOSE BIBB ARROWHEAD MODEL 353LKLF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
4. THERE SHOULD BE NO SHARP OR ABRASIVE SURFACES UNDER LAVS OR SINKS.
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MEN AND WOMEN RESTROOM — SCALE: 1/4" = 1'-0" | 1

PLUMBING FIXTURE SCHEDULE

NOT USED | 6

NOT USED | 7

A / 1 = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SYMBOLS LEGEND

NOT USED | 8

NOT USED | 9

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

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2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
7. REFER TO DETAILS 1, 3, & 4, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.
10. SEE SHEET M1.0 FOR MEP COMPONENT ANCHORAGE NOTES.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME
24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME
JURUPA USD
SKY COUNTRY ES
(1) 48'-X40' BUILDING

MANUFACTURER PROFESSIONAL OF RECORD
LICENSED ARCHITECT
KEVIN PATRICK CONLEY
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

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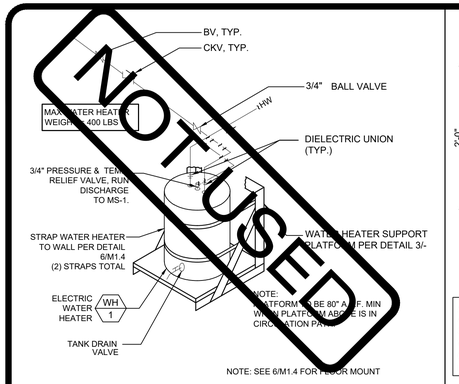
REVISIONS
1 -
2
3
4

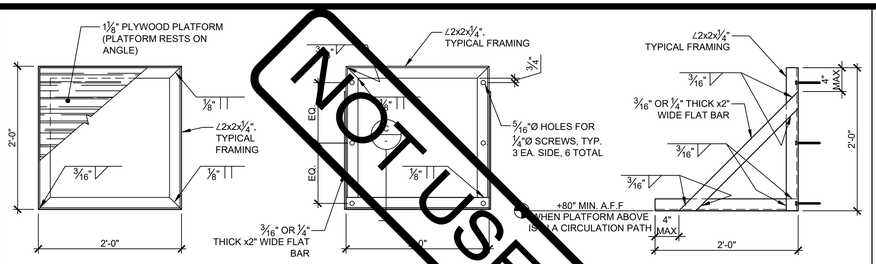
DRAWN BY:	CAB
SCALE:	AS NOTED
DATE:	12/8/25
PROJECT NO:	1977-25

SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE

SHEET NUMBER:
P1.0-N



WATER HEATER SUPPORT DETAIL NOT TO SCALE | 1

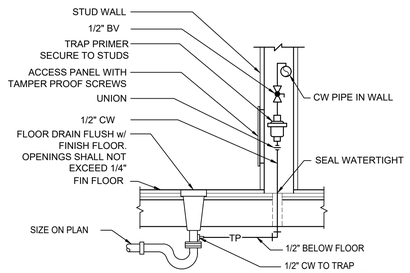


ATTACHMENT TO WOOD STUD WALL
ATTACH TO (2) 3x FLAT PER 3/S8.1 INTERNAILED w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED w/ (3) ¼"Ø MIN. x4" LAG SCREWS EACH SIDE (2½" MIN. PENETRATION INTO WOOD FRAMING).
CENTER ATTACHMENTS ON ONE OF THE TWO DOUBLE STUDS.
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.

ATTACHMENT TO STUD WALL
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.
PLATFORM NOT INTENDED TO BE INSTALLED OVER RIGID WALL INSULATION AS DETAILED.

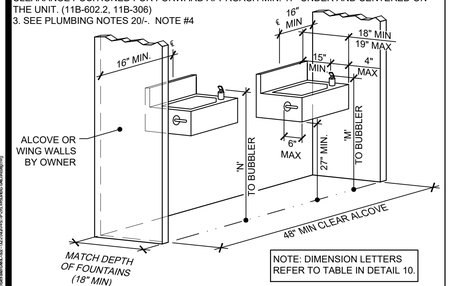
MAX WATER HEATER WEIGHT = 400 LBS

WATER HEATER PLATFORM DETAIL NOT TO SCALE | 3



TRAP PRIMER DETAIL NOT TO SCALE | 6

NOTES:
1. ALL DRINKING FOUNTAINS SHALL BE LOCATED COMPLETELY WITHIN ALCOVES, BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS (PER C.B.C. SECTION 11B-602.9), AND SHALL BE ACCESSIBLE PER 11B-206.5, SHALL BE APPROACHABLE PER SECTION 11B-305.6 AND HAVE MANEUVERING CLEARANCES PER SECTION 11B-305.7.
2. THE ACCESSIBLE D.F. SHALL HAVE 30"X48" CLEAR FLOOR SPACE, WITH KNEE AND TOE CLEARANCE POSITIONED FOR FORWARD APPROACH MIN. 17" UNDER AND CENTERED ON THE UNIT. (11B-602.2, 11B-306)
3. SEE PLUMBING NOTES 20/-. NOTE #4

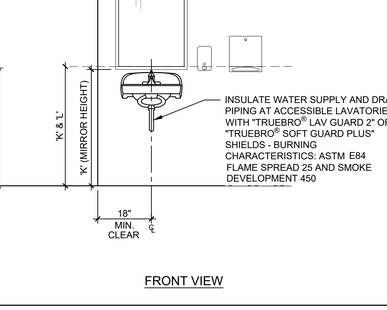


NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

HI-LO DRINKING FOUNTAIN NOT TO SCALE | 11

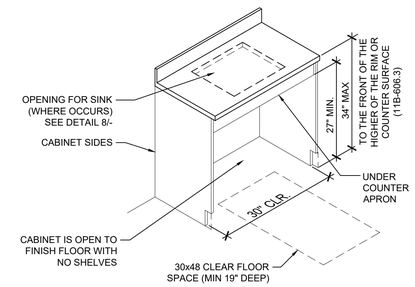
NOTE:
INSULATE WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE SINKS OR LAVS WITH "TRUEBRO® LAV GUARD 2" OR "TRUEBRO® SOFT GUARD PLUS" SHIELDS
IWH SHALL NOT BE LOCATED IN THE REQUIRED TOE CLEARANCE.
REFERANCE DETAIL 8 AND/OR 17 (AS APPLIES)

NOTE:
THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES



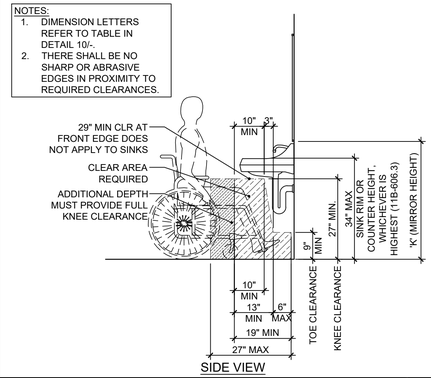
INSTANT WATER HEATER DETAIL NOT TO SCALE | 7

NOTES:
1. MODIFY BASE AS SHOWN FOR ADULT WHEELCHAIR ACCESS.
2. CABINET IS FOR ADULT USE ONLY.
3. ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.
4. CABINET DOORS ARE NOT ALLOWED @ SINKS.
5. THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES.

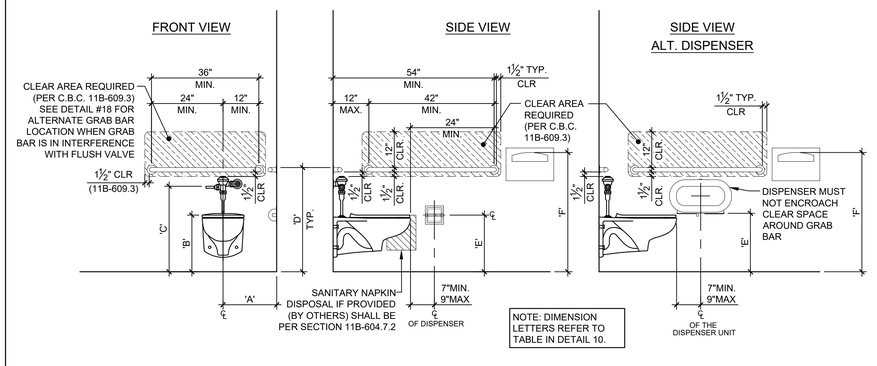


INSTANT WATER HEATER DETAIL NOT TO SCALE | 7

NOTES:
1. DIMENSION LETTERS REFER TO TABLE IN DETAIL 10/-.
2. THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES.

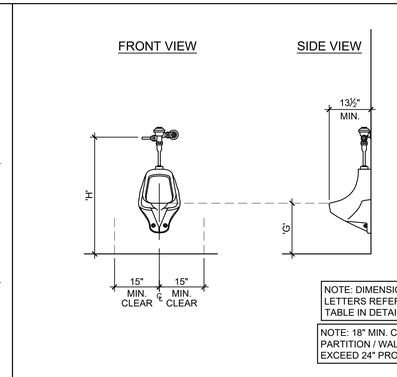


ACCESSIBLE CLASSROOM SINK NOT TO SCALE | 8



NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

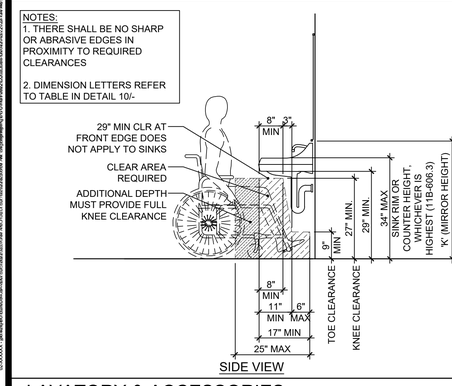
ACCESSIBLE TOILET AND ACCESSORIES (ADULT) SCALE: 1/2" = 1'-0" | 14



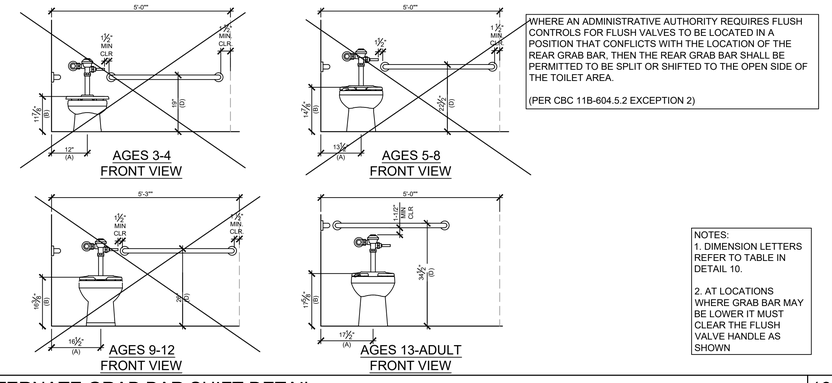
NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

NOTE: 18" MIN. CLEAR IF PARTITION / WALL EXCEED 24" PROJECTION

ACCESSIBLE URINAL SCALE: 1/2" = 1'-0" | 15



LAVATORY & ACCESSORIES SCALE: 1/2" = 1'-0" | 17



WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

(PER CBC 11B-604.5.2 EXCEPTION 2)

NOTES:
1. DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

2. AT LOCATIONS WHERE GRAB BAR MAY BE LOWER IT MUST CLEAR THE FLUSH VALVE HANDLE AS SHOWN

ALTERNATE GRAB BAR SHIFT DETAIL SCALE: 1/2" = 1'-0" | 18

HEIGHTS FOR ACCESSIBLE FEATURES IN TOILET FACILITIES

	FIXTURE & MEASUREMENT POINT	PRIMARY USERS: AGES 3-4	PRIMARY USERS: AGES 5-8	PRIMARY USERS: AGES 9-12	PRIMARY USERS: AGES 13 -ADULT	NOTES
A	TOILET OFFSET, CENTERLINE FROM FACE OF WALL	12"	12" - 15"	15" - 18"	17" - 18"	
B	TOILET SEAT HEIGHT	11" - 12"	12" - 15"	15" - 17"	17" - 19"	
C	TOILET CONTROLS (TOP OF FLUSH)	36" MAX.	36" MAX.	36" MAX.	44" MAX.	FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF TOILET.
D	TOP OF GRAB BARS GRIPPING SURFACE	18" - 20"	20" - 25"	25" - 27"	33" - 36"	
E	TOILET PAPER DISPENSER OUTLET (A.F.F., TO CENTERLINE OF OUTLET OR ROLL)	14"	14" - 17"	17" - 19"	19" MIN.	CENTERLINE OF DISPENSER OUTLET SHALL BE BETWEEN 7" TO 9" IN FRONT OF THE TOILET. OUTLET OF DISPENSER MUST BE BELOW GRAB BAR. DISPENSER (INCLUDING FULL TOILET PAPER ROLL) MUST NOT ENCROACH INTO REQ'D GRAB BAR CLEARANCE.
F	TOILET SEAT COVER DISPENSER, HEIGHT TO TOP OF OUTLET	24" - 32"	30" - 32"	32" - 36"	40" MAX.	
G	URINAL HEIGHT (LIP HEIGHT)	12" - 13" SUGGESTED (17" MAX.)	13" - 15" SUGGESTED (17" MAX.)	15" - 17" SUGGESTED (17" MAX.)	17" MAX.	
H	URINAL FLUSH CONTROL HEIGHT	44" MAX.	44" MAX.	44" MAX.	44" MAX.	
I	LAV/SINK RIM HEIGHT OR COUNTER	24" - 28" SUGGESTED (31 MAX.)	31" MAX.	31" MAX.	34" MAX.	
J	LAV/SINK KNEE CLEARANCE	SIDE APPROACH	AGE 6-8, 24" MIN. (AGE 5, SIDE APPROACH)	24" MIN.	27" MIN. (29" MIN. AT APRON FOR LAVATORY)	29" MIN TO BOTTOM FRONT EDGE OF LAV; 27" MIN @ 8" DEEP
K	MIRROR (ABOVE LAVATORY, SINK OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24" - 32" SUGGESTED (40" MAX.)	30" - 32" SUGGESTED (40" MAX.)	32" - 36" SUGGESTED (40" MAX.)	40" MAX.	MIRROR NOT LOCATED ABOVE LAVATORY OR COUNTERTOP SHALL BE MOUNTED SO THAT LOWEST EDGE OF REFLECTING SURFACE IS 35" MAX. ABOVE FINISH FLOOR.
L	DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24" - 32" SUGGESTED (40" MAX.)	30" - 32" SUGGESTED (40" MAX.)	32" - 36" SUGGESTED (40" MAX.)	40" MAX	ACCESSORIES SHALL COMPLY WITH 11B-307.2
M	LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	30" MAX *	30" MAX. *	30" MAX.	36" MAX.	KNEE CLEARANCE 27" H. AT 8" DEEP IS REQ'D IF HIGHER THAN 30" A.F.F.
N	HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	38" - 43"	38" - 43"	38" - 43"	38" - 43"	

NOTES:
1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2022 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.
2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.
3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. NOT ALL ITEMS LISTED MAY OCCUR IN THE PROJECT.
5. HEIGHTS CHOSEN FOR CHILDREN'S WATER CLOSETS & ACCESSORIES D & E SHALL BE CONSISTENTLY APPLIED FOR THE AGE GROUP.

M* WHERE A D.F. FOR CHILDREN IS MOUNTED MAXIMUM 30" A.F.F., THE SPOUT SHALL BE MAXIMUM 3-1/2" FROM THE FRONT EDGE OF THE UNIT

ACCESSIBLE HEIGHTS TABLE 10

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. MIN SLOPE 1/4" PER FOOT MAY SLOPE 4" CI AT 1/8" PER FOOT VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF
4. DRINKING FOUNTAIN NOTE: IF THE SPOUT IS LOCATED LESS THAN 3" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE LOCATED BETWEEN 3" AND 5" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE STREAM SHALL BE 15 DEGREES MAXIMUM RELATIVE TO THE FRONT FACE (ORIENTATION OF WALL SURFACE).

PLUMBING NOTES 20

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APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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2022 CBC PRE-CHECK (PC) DOCUMENT
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LICENSED ARCHITECT
TIMOTHY PATRICK HOWE
No. C12631
Ren. 8-31-25
STATE OF CALIFORNIA

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2
3
4

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DATE:	MM/DD/YY
PROJECT NO:	XXXX-21

SHEET TITLE:
PLUMBING DETAILS & ACCESSIBLE DETAILS

SHEET NUMBER:
P2.0

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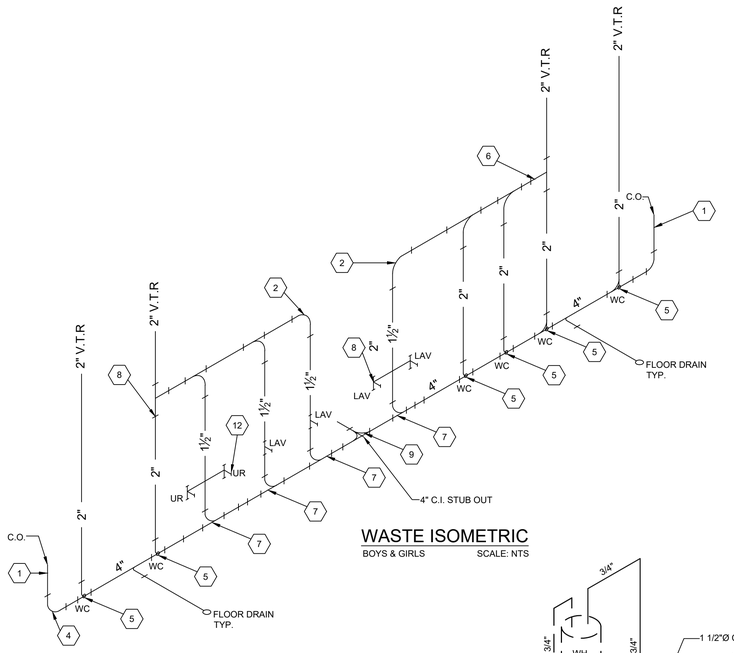
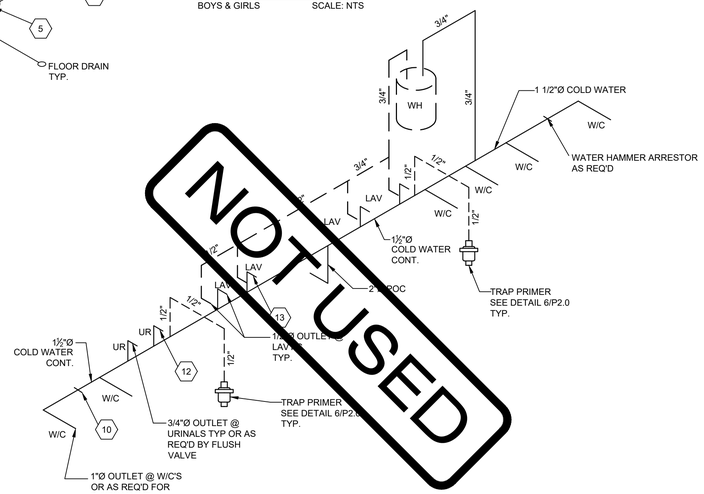


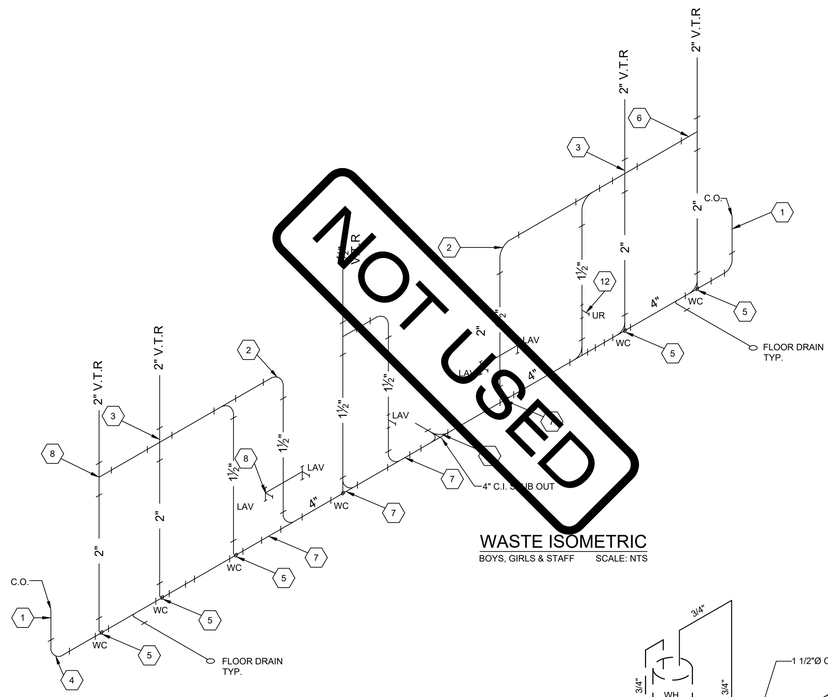
WASTE ISOMETRIC

BOYS & GIRLS SCALE: NTS



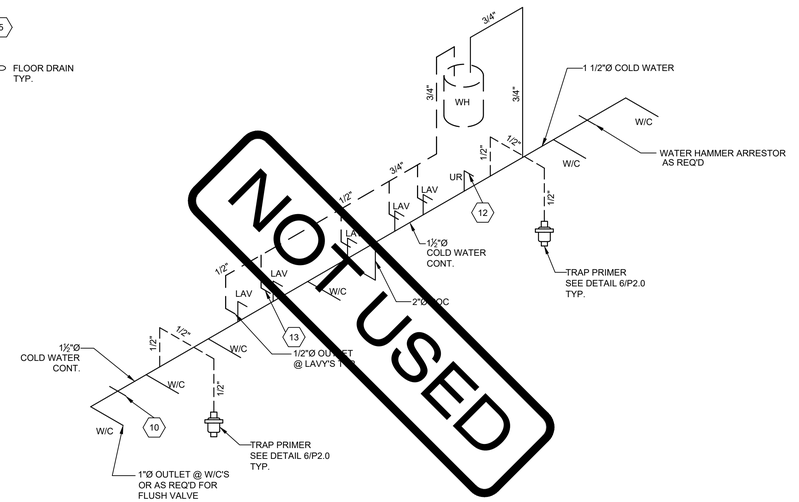
WATER SUPPLY ISOMETRIC

BOYS & GIRLS SCALE: NTS



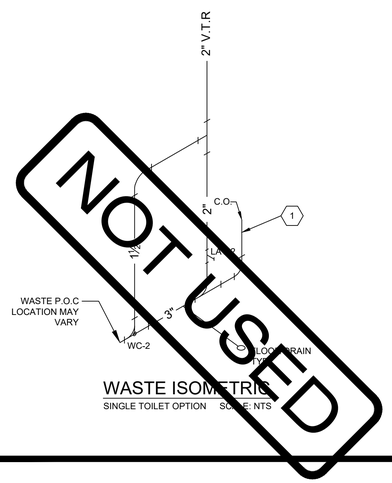
WASTE ISOMETRIC

BOYS, GIRLS & STAFF SCALE: NTS



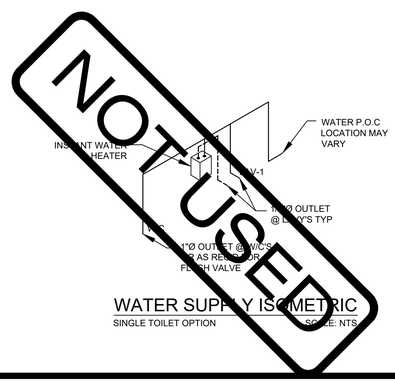
WATER SUPPLY ISOMETRIC

BOYS, GIRLS & STAFF SCALE: NTS



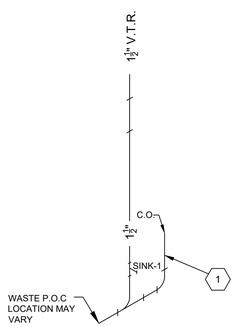
WASTE ISOMETRIC

SINGLE TOILET OPTION SCALE: NTS



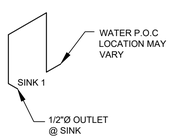
WATER SUPPLY ISOMETRIC

SINGLE TOILET OPTION SCALE: NTS



WASTE ISOMETRIC

CLASSROOM SINK OPTION SCALE:NTS



WATER SUPPLY ISOMETRIC

CLASSROOM SINK OPTION SCALE: NTS

KEY NOTES

1	4" CLEAN OUT
2	VENT 90
3	VENT CROSS
4	4" QUARTER BEND
5	SMITH#0600 CARRIER
6	2" SANITARY TAP TEE
7	4x4x2 COMBINATION WYE 1/8 BEND
8	2x2x1 1/2 SANITARY TEE
9	4" DOUBLE COMBINATION
10	2"x18" LONG CU AIR CHAMBER
11	1" CW STUB AT WATER CLOSETS
12	3/4" CW STUB AT URINALS
13	1/2 CW STUB AT LAVATORIES

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LICENSED ARCHITECT
ROBERT PATRICK CLARK
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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DATE: 01/14/2026

JOB# 2406

RELOCATABLE BUILDINGS

FOR

JURUPA UNIFIED SCHOOL DISTRICT

PC-275

(4) 36 x 40

BUILDING DATA

36 x 40 BUILDINGS

OCCUPANCY	E - 1
TYPE OF CONSTRUCTION	V - N
WIND LOAD	70 MPH EXPOSURE "C"
FLOOR LIVE LOAD	50 + 25 PSF
ROOF LIVE LOAD	20 PSF
BUILDING AREA	1440 SF
STRUCTURAL DESIGN	RIGID FRAME

APPLICABLE CODES

TITLE 24, CCR, PART 2, 1995 CBC (94 UBC W/95 CA AMENDMENTS)
1994 UBC & 1995 CA AMENDMENTS (93 CBC - PART 2, TITLE 24, CCR)
1993 NEC & 1995 CA AMENDMENTS (93 CEC - PART 3, TITLE 24, CCR)
1994 UMC & 1995 CA AMENDMENTS (93 CMC - PART 4, TITLE 24, CCR)
1994 UPC & 1995 CA AMENDMENTS (93 CPC - PART 5 TITLE 24, CCR)
1994 UNIFORM FIRE CODE W/ STATE AMENDMENTS (CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR)
1994 BUILDING STANDARDS CODE (IS STATE REFERENCED STANDARDS CODE - PART 12, TITLE 24, CCR)
TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

SYMBOLS

SYMBOL	DESCRIPTION
1/—	DETAIL ON SAME SHEET AS SYMBOL
1/2	DETAIL NUMBER (1) ON SHEET NUMBER (2)
1	KEY NOTE (1) ON SAME SHEET AS SYMBOL
4/5	KEY NOTE NUMBER (4) ON SHEET NUMBER (5)
A/1	WALL PANEL TYPE "A" ON SHEET (1)
A/2	SECTION "A" ON SHEET (2)
1	REVISION / CHANGE IN DRAWING NO. (1) IS FIRST REVISION
CLOUD	HIGHLIGHTS CHANGED AREA
A	DOOR REFERENCE
A	WINDOW REFERENCE
EL	ELECTRICAL ITEM(S) SEE ELECT. DRAWINGS
HV	HEATING/VENTILATING & AIR CONDITIONING ITEM(S) SEE MECHANICAL DRAWINGS
PLG	PLUMBING ITEM(S) SEE MECHANICAL DRAWINGS
STR	STRUCTURAL ITEM(S) SEE STRUCTURAL DRAWINGS

SHEET INDEX

ARCHITECTURAL

A0 COVER SHEET
A1.0 FLOOR PLAN
A2.0 ROOF PLAN
~~A3.0 EXTERIOR ELEVATIONS~~
~~A4.0 INTERIOR ELEVATIONS~~
~~A5.0 DOOR, WINDOW, FINISH, HARDWARE SCHEDULE~~
~~A6.0 ARCHITECTURAL DETAILS (WOOD STUDS)~~
A6.1 " " "
~~A7.0 REFLECTED CEILING PLAN~~
~~A7.1/2 " " (GRID)~~

STRUCTURAL

~~S1.0 FOUNDATION PLAN 50 + 20 PSF LL (WOOD)~~
F1.1
F3.0 FOUNDATION DETAILS (50 + 20 PSF LL WOOD)
F3.1
~~S2.0 FLOOR FRAMING PLAN~~
~~S2.1 FLOOR FRAMING PLAN (CENTER MODULE) OPTIONAL~~
~~S2.2/A ROOF FRAMING PLAN (DUAL PITCH)~~
~~S2.3 ROOF FRAMING PLAN (DUAL PITCH) CENTER TILT~~
~~S3.1/A STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)~~
~~S3.2 STRUCTURAL DETAILS (DUAL PITCH)~~
S4.0 STRUCTURAL DETAILS
~~S5.0 WALL FRAMING (WOOD)~~
~~S5.1 WALL FRAMING DETAILS (WOOD)~~
~~S5.2 WALL FRAMING DETAILS (WOOD)~~

PLUMBING

MECHANICAL

~~M1.0 HVAC PLAN~~

ELECTRICAL

~~E1.0 ELECTRICAL PLAN~~

RAMP

~~C1.0 RAMP AND LANDING PLAN~~
~~C1.1 RAMP AND STAIR DETAILS~~

WITH THE SIGNING OF THESE DRAWINGS, WE ACKNOWLEDGE THAT WE HAVE REVIEWED THESE PLANS AND SPECIFICATIONS AND HAVE FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE BID DRAWINGS, SPECIFICATIONS AND ASSOCIATED ADDENDA. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT, THEY SHALL PRESIDE OVER CONFLICTING AREAS IN THE BID DRAWINGS AND SPECIFICATIONS, AND ANY ADDENDA THERETO.

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OFFICE OF REGULATION SERVICES
APP# 6 [illegible] 2 0
AC HM FLS [illegible] SS [illegible]
DATE 2/9/97
HARRY GOLBAHAR

REVISIONS
1
2
3
4
5
6

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architect's Seal
LICENSED ARCHITECT
GREGORY J. HAMMERS
No. C-11937
RENEWAL DATE
MAY 31 1997
STATE OF CALIFORNIA

Division of the State Architect
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-275
AC FLS SS
DATE

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

Job Number: 2406
JURUPA U.S.D.

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drawn by: BL
date 12-2-96
checked by:
DATE 1/28/97
Modtech project no: 2406
MODTECH Index No.

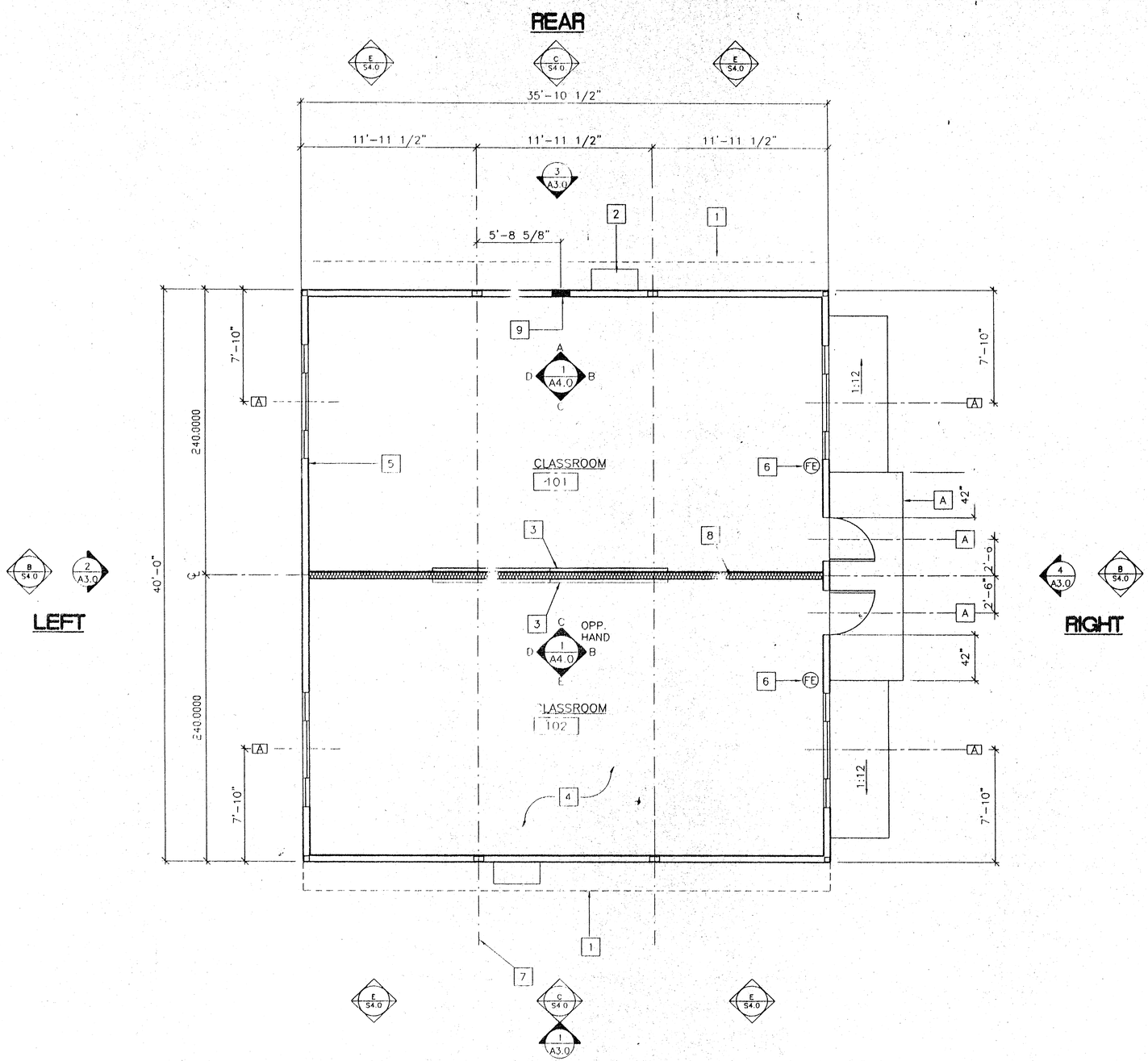
COVER SHEET

A0.0

2406A01.DWG

PC-275 PROJECT NO. 2406

2406A0.DWG



KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. (2) 8'-0"x 4"-0" MARKER BOARD (SEE SPECIFICATIONS FOR TYPE) (FIELD INSTALLED)
4. FINISH FLOORING: (SEE FINISH SCHED.)
5. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE
6. FIRE EXTINGUISHER – 5 LBS. DRY CHEMICAL WITH 2A–10BC U.L. RATING ON WALL MTD. BRACKET. HANDLE AT 48" A.F.F.
7. MODLINE (M TYPICAL)
8. PROVIDE SOUND BATT INSULATION IN WALL.
9. LOADCENTER (EL)
10. RAMP AND LANDING (SEE SHTS R1.0 AND R2.0)

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SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

NOTES

1. METAL TAG ON ALL MODULES, MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOWING D.S.A. APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER. ROOF & FLOOR DESIGN LIVE LOAD AND DESIGN WIND LOAD.

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FLOOR PLAN

SCALE 1/4"=1'-0"

REVISIONS
1
2
3
4
5

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architect's Seal
LICENSED ARCHITECT
GREGORY J. HAMMERS
No. C-11937
MAY 31 1997
STATE OF CALIFORNIA

Division of the State Architect

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 2406

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drawn by: BL date: 12/3/96
checked by: date: 1/28/97
Modtech project no: 2406

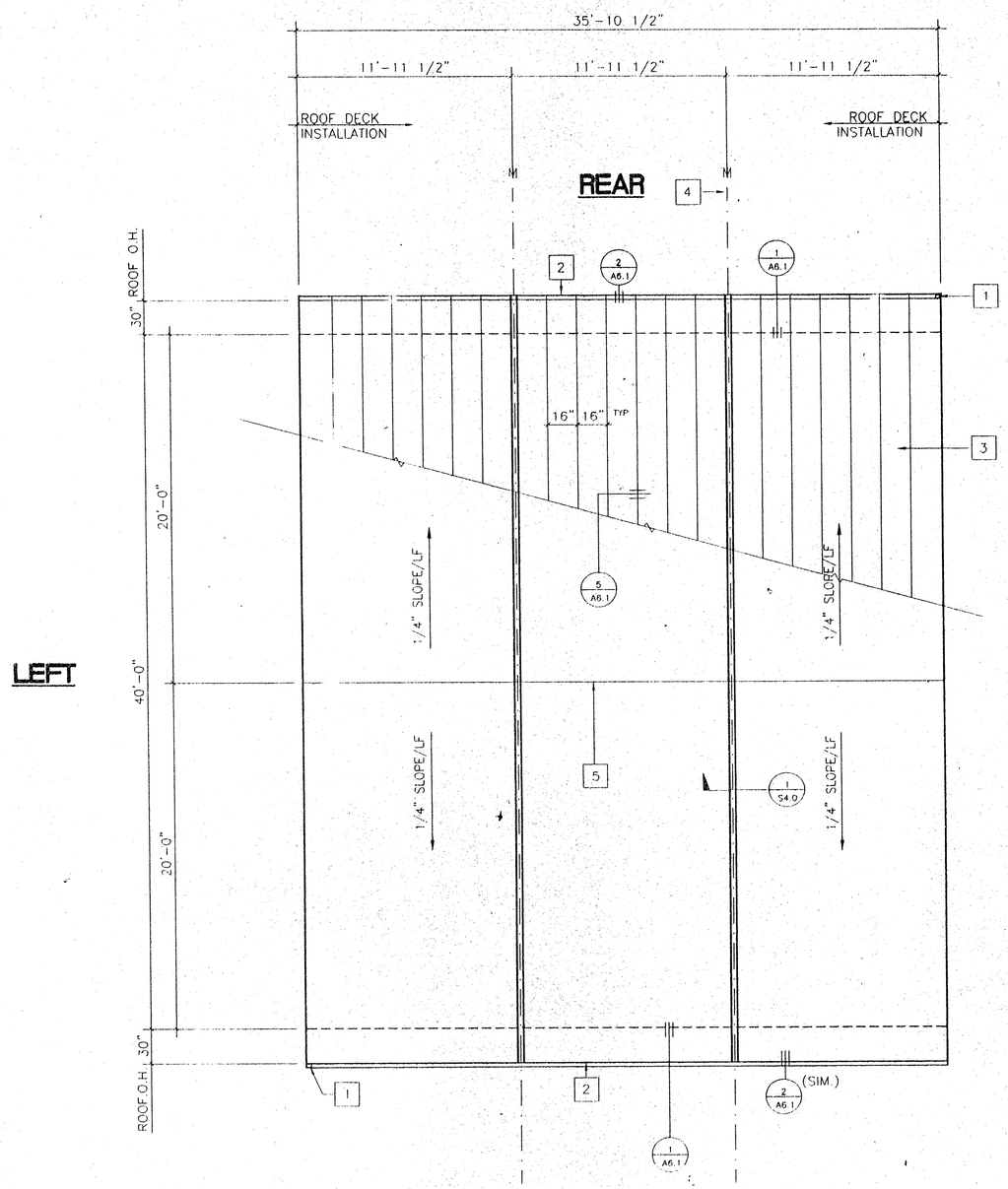
MODTECH Index No.

A1.0A

FLE # 2406A10.DWG

PROJECT NO. 2406

DC-275



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KEY NOTES

1. DOWNSPOUT (TYPICAL FOR 2) 3"X2"X26.GA
2. CONTINUOUS GUTTER 26.GA.
3. 22 GA. INTER LOCKING ROOF PANELS
4. MODLINE
5. RIDGE LINE

FILE # 2406A20.DWG

ROOF PLAN

SCALE 1/4"=1'-0"

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REVISIONS

1			
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3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architect's Seal
LICENSED ARCHITECT
GERRY J. HAMMERS
No. C-11937
RENEWAL DATE
MAY 31 1997
STATE OF CALIFORNIA

Division of the State Architect

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 2406

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date: 1/x/97
Modtech project no: 2406
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ROOF PLAN

A2.0A

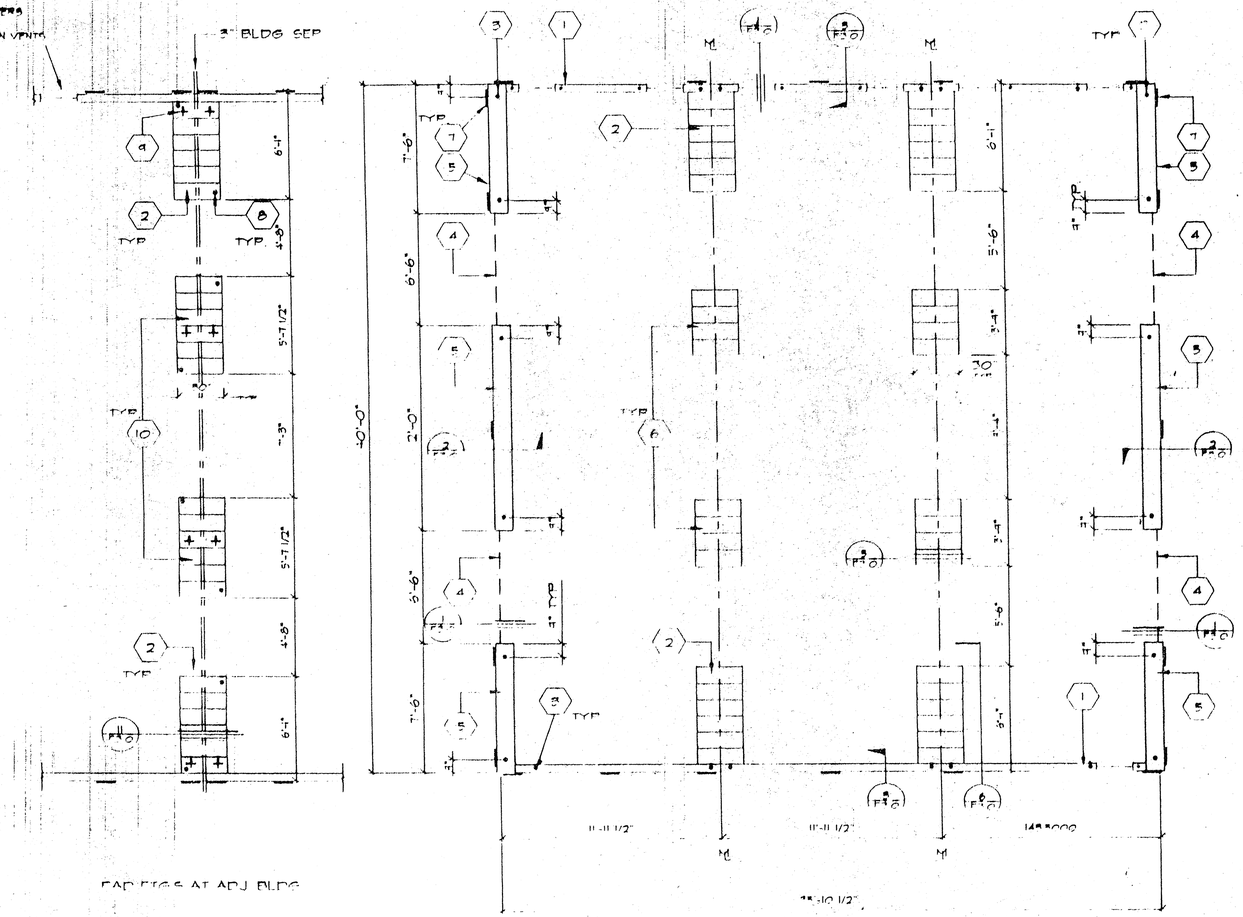
PROJECT NO.2406

PC-275

"MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH"

THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED

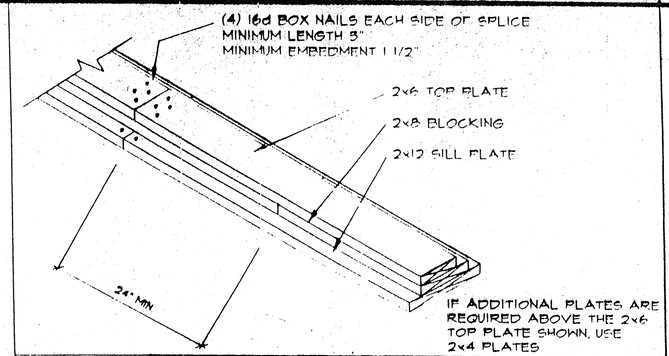
8" X 24" END WALL VENTS AS REQUIRED FOR ADJACENT BUILDING APPLICATIONS
MIN. 18" FROM BLDG. CORNERS
MIN. 18" FROM MODLINES
MIN. 12" BLOCKING BETWEEN VENTS



FOUNDATION (WOOD SILL)

36 x 40 - 50 PSF LL

SCALE 1/4"=1'-0"



FOUNDATION SPLICE DETAIL

KEY NOTES

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DATE: 01/14/2026

1. 2"X6" SILL PLATE (END WALL)
2. 6- 2X12X30" LONG SILL PADS
3. FIFF TO GRADE (TYP.)
4. 3" HIGH BY 6'-6" LONG VENT - SIDE WALL
   3" HIGH BY 2'-0" LONG VENT - END WALL
5. 2X12 SILL PLATE (SIDE WALL)
6. 4-2X12X30" LONG SILL PADS
7. 6"X12"X10 GA PLATES
8. 1" Ø PIPE EA END
   EA PAD AT ADJ BLDG LINE
9. 5/8" Ø X4" LAG
   (4 PER BLDG MIN.)
10. 6- 2X12X30" LONG SILL PADS

NOTES

1. SILL RESTRAINT: ON A.C. PAVING AND [illegible] SOIL 1" O.D. GALVANIZED PIPE AT 10 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1-1/4" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (18-1/2" LONG PIPE REQUIRED FOR PENETRATION AT 45° ANGLE.)
2. ON CONCRETE PAVING HILTI DR A2.[illegible] SILL PLATE
   END WALLS: 8" OC
   SIDE WALLS: 22 "OC
3. WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR 3/4" THICK PLYWOOD SAME WIDTH AS PLA[illegible]
4. VERIFY DRAINAGE, TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE, WITH DISTRICT ARCHITECT SITE PLANS.
5. ALL FOUNDATION MATERIAL SHALL BE HEM FIR.
   GROUND CONTACT: LP-22 (CCA 40
   ABOVE GROUND: LP-2 (CCA 25)
6. FOUNDATION DESIGNED FOR 1000 PSF SOIL BEARING PRESSURE PER ORC IR 23-6

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VENT CALCS.

BLD'G SIZE 36' X 40' = 1440 Ø
VENTILATION REQ'D 1440 ÷ 150 = 9.6 Ø
3" X 6'-6" VENT = 1.625 Ø
4 VENTS X 1.625 Ø = 6.5 Ø VENTING PROVIDED
3" X 2'-0" VENT = .5 Ø
7 VENTS X .5 Ø = 3.5 Ø VENTING PROVIDED
6.5 Ø + 3.5 Ø = 10 Ø > 9.6 Ø

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
1					REVISED AUG 2 1 1996
2					
3					
4					
5					

ARCHITECT: [illegible] C-11937 RENEWAL DATE MAY 31 1997 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 6 2 15 AC ___ FLS ___ SS ___ DATE 7-19-96

MODTECH INC,

MODTECH INC.
2850 BARRETT AVE
PERRIS, CA. 92572
PH. (909) 943-4014
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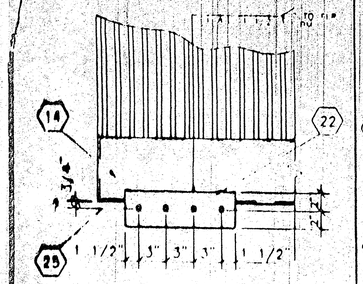
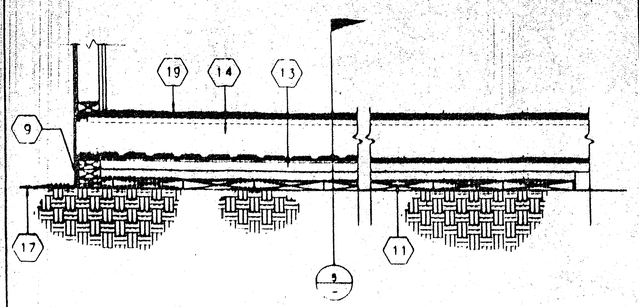
DATE 1/29/97

FOUNDATION PLAN

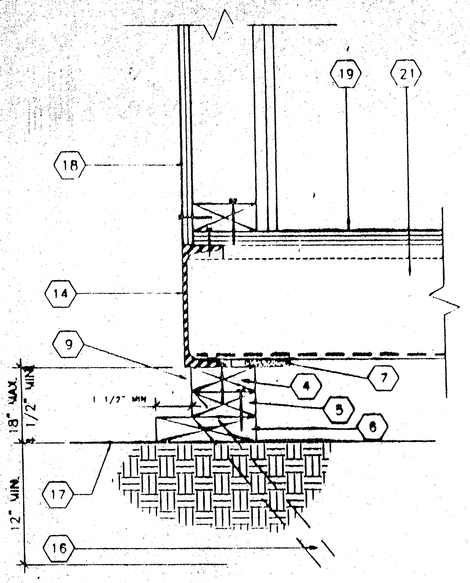
F1



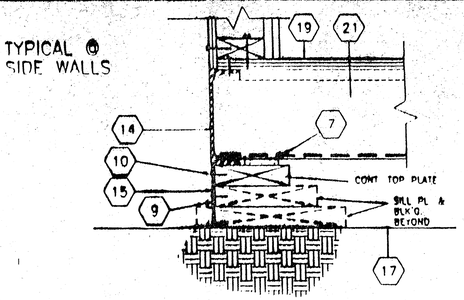
9 SCALE: 1 1/2"=1'-0"
ALTERNATE HOLD DOWN

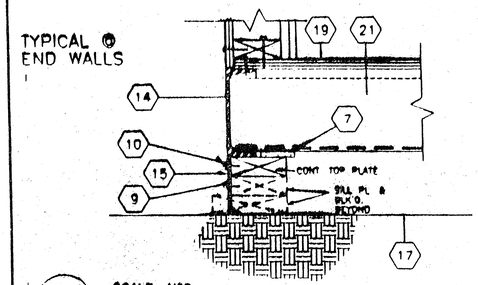


6 SCALE: 1 1/2"=1'-0"
MODLINE PAD @ END WALL



3 SCALE: 3"=1'-0"
FOUNDATION @ END WALL





1 SCALE: NTS
FOUNDATION VENT

KEY NOTES

1. 2x12 SILL PLATE SEE FOUND PLAN FOR LENGTH
2. 2x8 BLOCKING W/16d @MAX 5"O.C TO SILL PLATE
3. 2x6 TOP PLATE W/16d @MAX 5" O.C TO BLOCKING
4. 2x4 TOP PLATE W/16d @ MAX 5" O.C TO BLOCKING
5. 2x4 BLOCKING W/16d MAX 5" O.C TO SILL PLATE
6. 2x6 SILL PLATE SEE FOUND PLAN FOR LENGTH
7. 5/8"x2 1/2" SHIM (WHEN REQ.)
8. INSERT REQ'D 2X4 BLK'NG OR PLYWD SHIM W/16d @ 12" O.C. FACE NAIL
9. OPTIONAL - MIN. 3/8" PLYWOOD SKIRTING W/ 10d @ MIN. 4" O.C. @ ENDWALLS & 8" O.C. @ SIDEWALLS U.N.O. TYP. 12" O.C. IN PLATE TO PLATE. SPACING FOR THE FOUNDATION MEMBERS CAN BE DECREASED TO 12" O.C. AND FOUNDATION BLOCKING SHALL BE RECESSED SUCH THAT THE SKIRTING SHALL BE INSTALLED FLUSH WITH THE PERIMETER FLOOR CHANNEL.
10. 10d GALV. NAIL @ MAX. 4" O.C.
11. 2X12X2'-8" SILL PLATE SEE FOUND PLAN FOR QUANITY REQ'D
12. 2 x 10 PLATES W/ 2-16D BOX @ 6" O.C.
13. 2X10 BLK'NG FACE OR TOE NAIL 16d @ MAX 12" O.C ADD BLK'S. OR SHIMS AS REQ'D
14. FLOOR FRAME BEAM SEE STRUCTURAL
15. TYPICAL FOUNDATION VENT (SEE FOUNDATION PLAN FOR SIZES AND LOCATIONS).
16. SILL RESTRAINT 1" ø PIPE SEE FOUND FOR LOCATION
17. FINISH GRADE
18. EXTERIOR FINISH
19. PLYWOOD SUBFLOOR
20. MOD-LINE
21. FLOOR-JOIST
22. 4"X12"X10 GA. PLATE
23. 6"X12"X10 GA PLATE
24. 1/4" ø S.T.S. TYP. 4-PLACES
25. 1/4" ø X3" LG. LAG SCREW TYP. 4-PLACES
26. 5/8" øX4" LAGS (FOR LOCATION SEE PLAN)

FOUNDATION LUMBER TO BE TREATED AT FACTORY, LUMBER GRADING & TREATING TO BE VERIFIED BY REPLANT INSPECTOR

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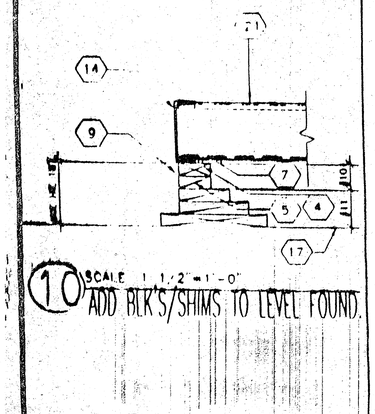
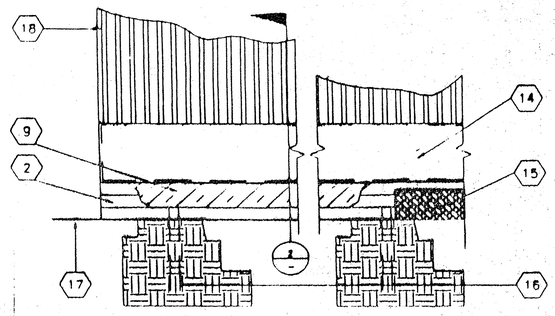
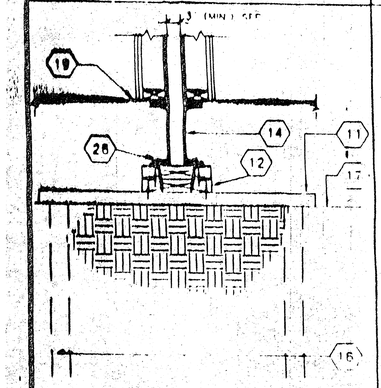


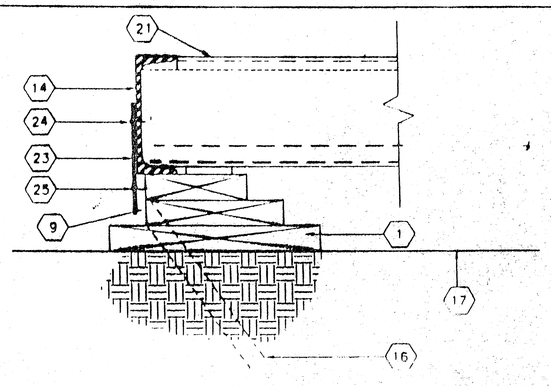
10 SCALE: 1 1/2"=1'-0"
ADD BLK'S/SHIMS TO LEVEL FOUND.



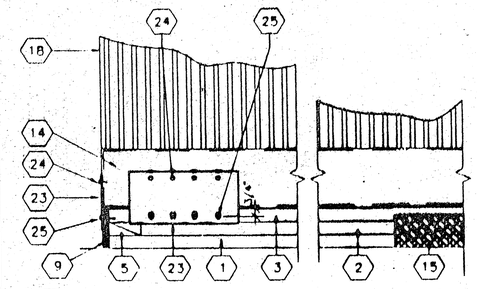
7 SCALE: 1 1/2"=1'-0"
FOUNDATION ELEVATION @ SIDE WALL



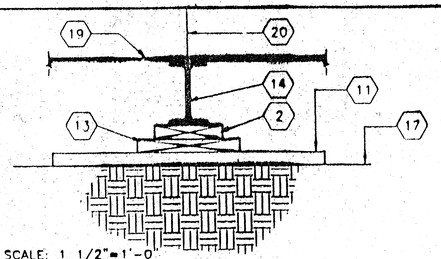
11 SCALE: 1 1/2"=1'-0"
FOUND. AT ADJ. BLDG



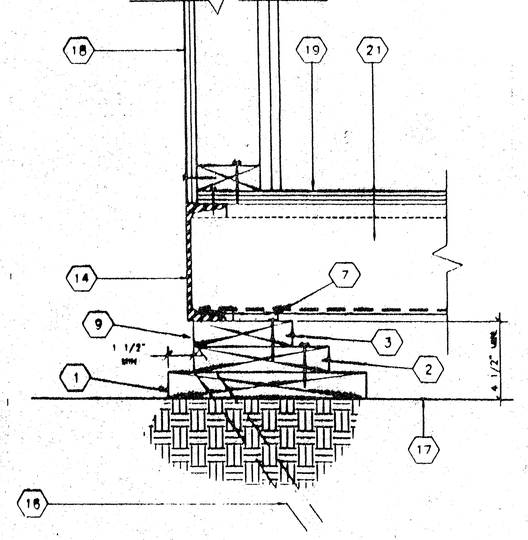
8 SCALE: 3"=1'-0"
TYPICAL TIE PLATE



4 SCALE: 1 1/2"=1'-0"
DETAIL @ FOUNDATION CORNER



5 SCALE: 1 1/2"=1'-0"
FOUNDATION PAD @ MODLINE



2 SCALE: 3"=1'-0"
FOUNDATION @ SIDE WALL

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP: 6 20 2 0
AC FLS SS
DATE FEB 4 1997

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			JAMES T. BRADY No. 8[illegible] REGISTERED STRUCTURAL ENGINEER STATE OF CALIFORNIA	LICENSED ARCHITECT Jeffrey J. Hammons No. C-11937 RENEWAL DATE MAY 31 1997 STATE OF CALIFORNIA	REVISED IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 215 AC FLS BY DATE 7-19-96

MODTECH INC,

MODTECH INC.
2850 BARRETT AVE
PERRIS, CA. 92572
PH. (909) 445-4014
FX. (909) 940-0427

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JOB NO

DRAWN
DATE
CHECKED
DATE 11/21/97

FOUNDATION DETAILS

F3.0

FLOOR JOIST TABLE

LIVE LOAD	~~6 3/8"X2 1/2"X12GA~~	STIFFENED FLOOR OPTION
50 P.S.F.	~~48" O.C.~~	24" O.C.

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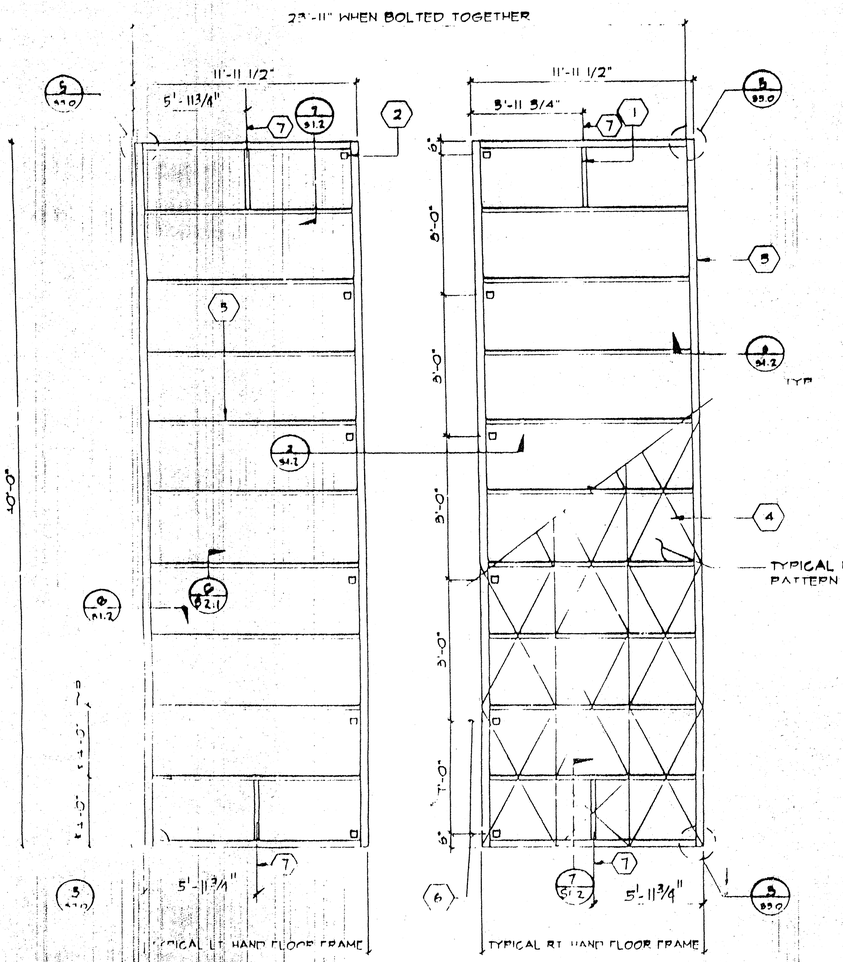
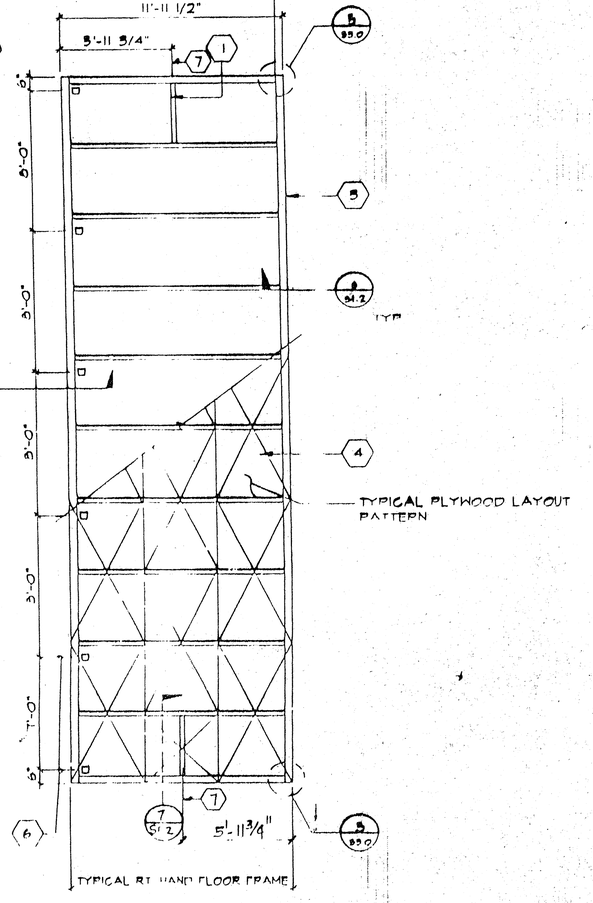
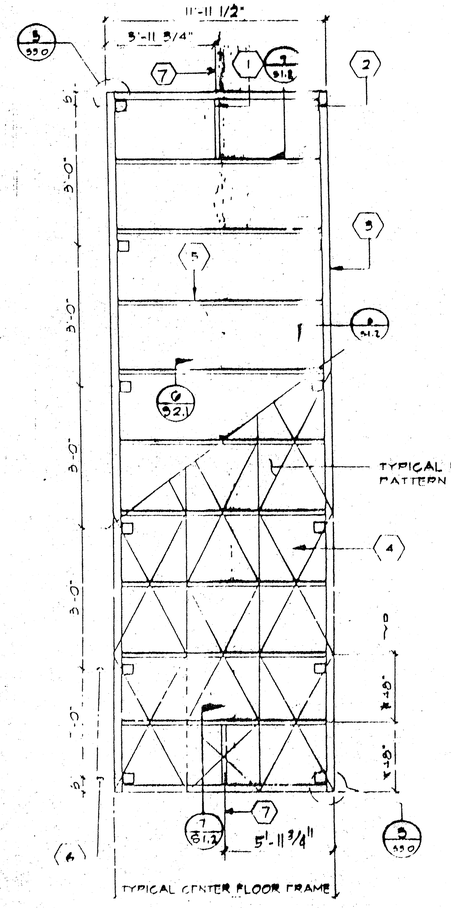
23'-11" WHEN BOLTED TOGETHER



TYPICAL LT HAND FLOOR FRAME



TYPICAL RT HAND FLOOR FRAME



TYPICAL CENTER FLOOR FRAME

1. REFER TO FLOOR JOIST TABLE FOR
REFER GRADING FOR PROJECT

KEY NOTES

1. ⌈ 6 3/8 x 2 1/2 x 12GA BLOCKING AT MIDSPAN OF FLOOR JOIS TYPICAL
2. 5" SQ HAND HOLES AT BOLT SM TO SM 2 PLACES
3. [illegible] CHANNEL (TYPICAL
4. PLYWOOD FLOOR SHEATHING APA PS 1-83 1 1/8" THICK, 5-PLY-1-FLOOR @ 48" O.C. SPAN RATING. ATTACHED W/ 8 x 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME AND AT 144 O.C.'S DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD JOIST (TYPICAL
5. 6 3/8 x 2 1/2 x 12GA. FLOOR PURLIN @ 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE
7. 1" Ø HOLE @ MIDHEIGHT OF C7 x [illegible] FOR MATERIAL HANDLING

NOTES

A. FOR [illegible] HAND FRAME SEE [illegible]

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FLOOR FRAMING PLAN

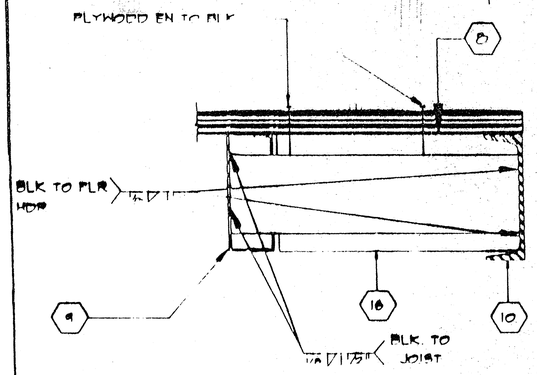
SCALE 1/4"=1'-0"

50 PSF FLR LL

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT [illegible] No. C-11507 RENEWAL DATE MAY 31 1997 STATE OF CALIFORNIA						~~DC CM~~ JUL 17 1996

MODTECH INC,

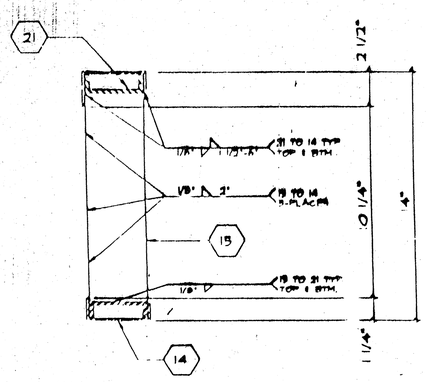
FLOOR FRAMING PLAN S1.0



SCALE: 3"=1'

BLOCK @ MIDSPAN

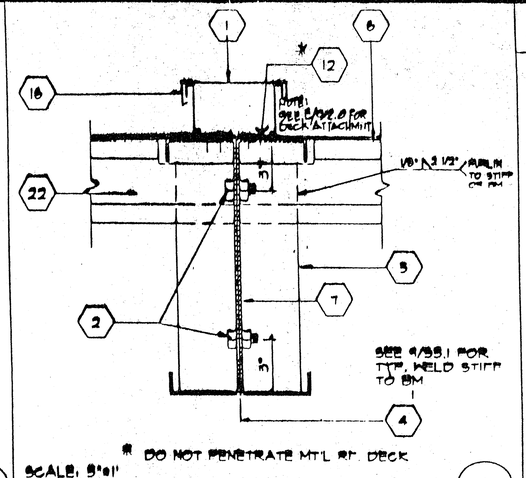
7



SCALE: 3"=1'

MECH. DUCT OPENING IN HEADER

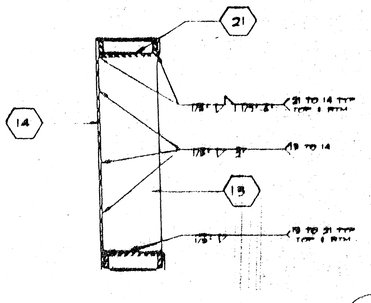
4



SCALE: 3"=1'

ROOFING @ MODLINE

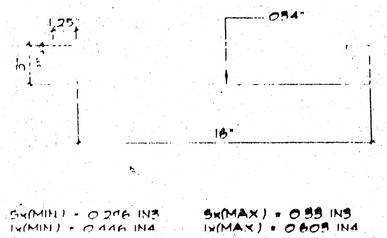
1



SCALE: 3"=1'

HEADER REINF. @ A.C. OPENING

8



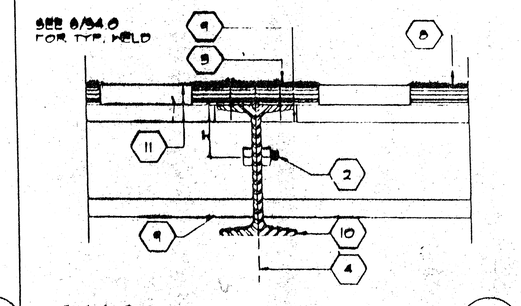
Sx(MIN) = 0.296 IN3
Ix(MIN) = 0.446 IN4

Sx(MAX) = 0.55 IN3
Ix(MAX) = 0.605 IN4

SCALE: 3"=1'-0"

ROOF PAN (22GA.)

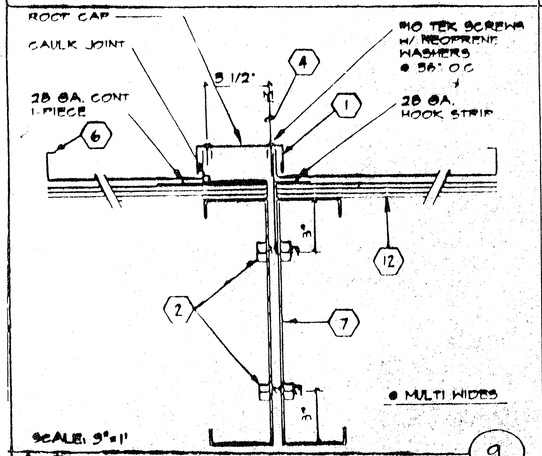
5



SCALE: 3"=1'

MODULE JOINT @ FLR. 12'-0"

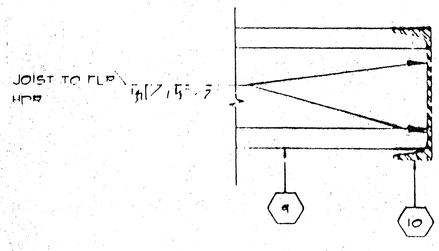
2



SCALE: 3"=1'

ALT., ROOFING @ MODLINE

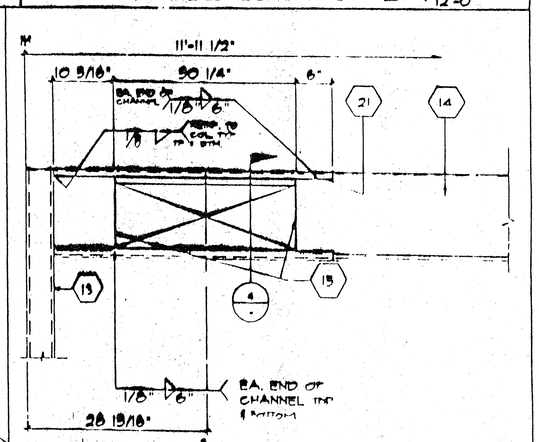
9



SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM

6



SCALE: 1"=1'

ELEVATION-OPENING

3

KEY NOTES

1. CAP CLOSURE CHANNEL 20GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT
2. S/A" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) @ 8'-0" O.C.
3. E.N.
4. MODULE JOINT
5. 1/4" @ 8'-0" O.C. FULL DEPTH STIFFENER PLATE (SEE 6/S2.1)
6. STANDING SEAM ROOF (SEE A2.0)
7. ROOF BEAM (SEE STRUCTURAL) SEE 6/S2.1 & 10/S2.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST 6/S2.1
10. FLOOR BEAM (SEE STRUCTURAL 6/S2.1)
11. HAND HOLE @ BOLT LOCATION
12. #14 STEMS
13. 3 1/2"X8 1/2"X1/4" STEEL TUBE COLUMN
14. ROOF HEADER (SEE STRUCTURAL 1/S2.1)
15. 1/4" STIFFENER PLATE SEE 6/S2.1 FOR TYP. INFO.
16. CAP CLOSURE AT RIDGE 20GA. GALV. W/#10 [illegible] AT 48" O.C. W/NEOPRENE WASHERS TO RIB BOTH BOTH SIDES OF CAP IN SEALANT
17. NOT USED
18. NOT USED
19. NOT USED
20. 3"X2"X3/16" [illegible]
21. 7 1/4"X11"X45 11/16" LX10GA CHANNEL TOP @ [illegible] CENTER OF OPENING
22. ROOF PURLIN SEE 2/S2.1
23. PIPE STEEL (SEE NOTE #13)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 6 7 8 2 0
AC ___ FLS ___ SS
DATE FEB 4 1997

ARCHITECT

LICENSED ARCHITECT
LEON L. HAMMERS
No. C-11937
MAY 31 1997
STATE OF CALIFORNIA

ELECTRICAL | STRUCTURAL | MECHANICAL | FIRE MARSHAL | ACCESS COMPLIANCE | STRUCTURAL SAFETY

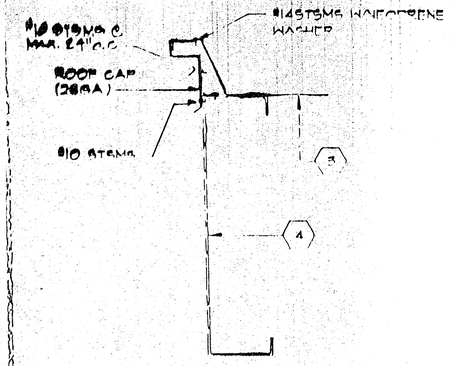
© MODTECH INC. 1994

MODTECH INC

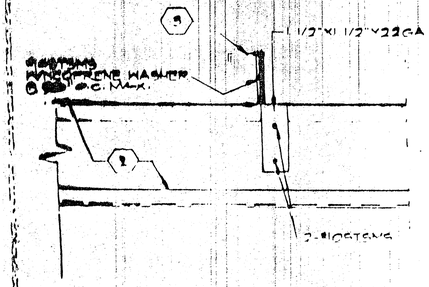
DRAWN
DATE
CHECKED
DATE 1/28/97

STRUCTURAL DETAILS

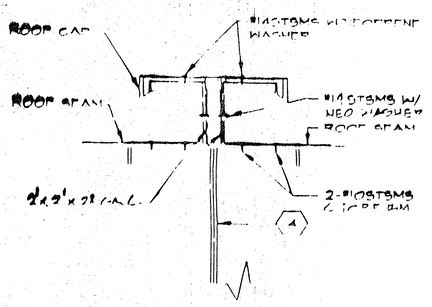
S1.2



A ROOF STRAP @ SIDWALL

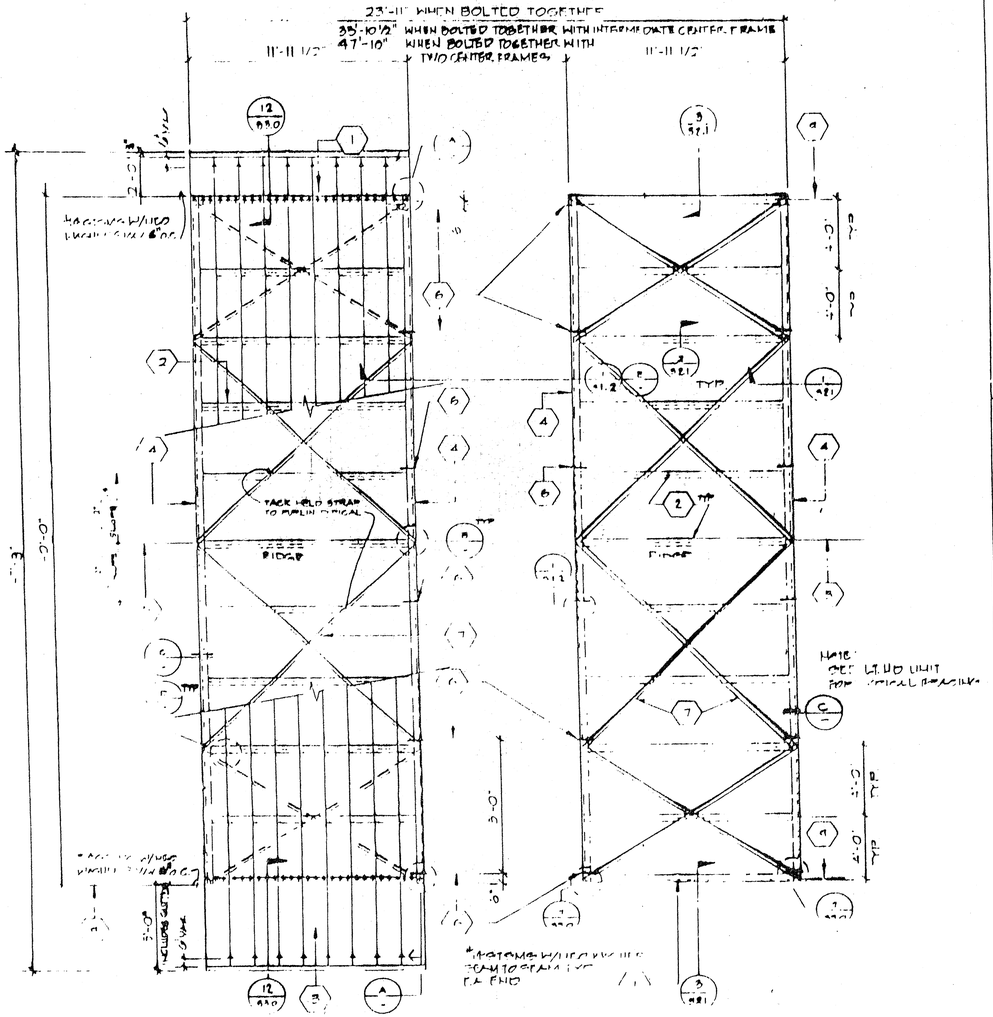


B ROOF STRAP



E ALTERNATE ROOF CAP @ MODLINE

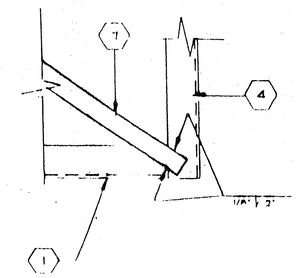
REAR



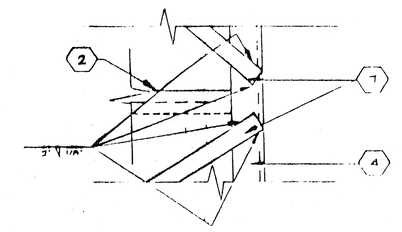
LT HAND FRAME

RT HAND FRAME

FRONT



A CROSS BRACING @ END WALL



B CROSS BRACING @ SIDE WALL

KEY NOTES

1. C 14 x 12GA C MEMBER
2. 6"X2 1/2X14GA "Z" PURLIN SEE PUNCH FOR SPACING
3. 22GA STANDING SEAM ROOFING ATTACH ROOFING TO ROOF CURB W/#14x3/8" SCREW WITH NEOPRENE WASHERS SPACING 4' o.c.
4. TAPERED ROOF BEAM 18GA C SEE 1/S2.1
5. RIDGE-LINE
6. 11/16ø DRILL SEE DETAIL 1/S1.2
7. 2"x20GA STRAP CROSS BRACING TACK WELD TO EA. PURLIN
8. [illegible]
9. #14 x 3/4" @TSMS AT ROOF HEADER W/NEO WASHER 1 PER PURLIN MAX. @ 24" o.c.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

ROOF FRAMING PLAN-DUAL PITCH

SCALE 1/4"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 70220
AC ____ FLS ____ SS ____
DATE FEB 4 1997

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT [illegible] No. C-31937 REGISTRATION EXPIRES MAY 31 1997 STATE OF CALIFORNIA						

MODTECH INC.

MODTECH INC. 1996

DATE [illegible]

DATE 1/28/97

S2.0A

ROOF FRAMING PLAN

DSA

103-22

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

☐ Project has a geotechnical report or construction documents require special inspection by a geotechnical engineer.
☐ Project does NOT have and does NOT require a geotechnical report.

	TYPE	BY
S1 | SOILS - GENERAL		
☑ S1a: Site Preparation	See Notes	PI
S2 | COMPACTION AND FILL		
☑ S2a: Fill Materials	Test	LOR*
☑ S2b: Fill Placement	Continuous	LOR*
☑ S2c: Compaction	Test	LOR*
S3 | DRIVEN DEEP FOUNDATIONS (PILES)		
☐ S3a: Materials and Members	Continuous	GE*
☐ S3b: Pile Capacity	Test	LOR*
☐ S3c: Driving Operations	Continuous	GE*
☐ S3d: Pile Installation	Continuous	GE*
☐ S3e: Specialty Piles	*	*
S4 | CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)		
☑ S4a: Drilling Operations	Continuous	PI
☑ S4b: Pier Construction	Continuous	PI
☐ S4c: Bearing Strata	Continuous	GE*
S5 | RETAINING WALLS		
☐ S5a: Backfill Placement	Continuous	GE*
☐ S5b: Soil Reinf. and Drainage	Continuous	GE*
☐ S5c: Segmental Retaining Walls	Continuous	GE*
S6 | OTHER SOILS		
☐ S6a: Soil Improvement Test	Test	GE*
☐ S6b: Soil Improvement Inspection	Continuous	GE*
☐ S6c: Not used.	N/A	N/A
☐ S6d: Not used.	N/A	N/A
☐ S6e: Not used.	N/A	N/A
☐ S6f: Not used.	N/A	N/A
☐ S6g: Not used.	N/A	N/A
☐ S6h: Not used.	N/A	N/A
☐ S6i: Not used.	N/A	N/A
☐ S6j: Not used.	N/A	N/A
☐ S6k: Not used.	N/A	N/A
☐ S6l: Not used.	N/A	N/A
☐ S6m: Not used.	N/A	N/A
☐ S6n: Not used.	N/A	N/A

* See Appendix for additional information.

	TYPE	BY
C1 | CAST-IN-PLACE CONCRETE		
☑ C1a: Mix Design	Continuous	SI
☑ C1b: Reinforcing Steel	Test	LOR
☑ C1c: Concrete Material	Test	LOR
☑ C1d: Strength Test	Test	LOR
☐ C1e: Batch Plant Inspection		SI
C2 | PRESTRESSED CONCRETE		
☐ C2a: Tendons and Anchorage	Test	LOR
☐ C2b: Tendon Placement	Periodic	SI
☐ C2c: Concrete Strength	Periodic	SI
☐ C2d: Stressing Operations	Continuous	SI
C3 | PRECAST CONCRETE		
☐ C3a: General Fabrication	Continuous	SI
☐ C3b: General Erection	Periodic	SI*
☐ C3c: Diaphragm Connections	Continuous	SI
☐ C3d: Diaphragm Tolerances	Periodic	SI
C4 | SHOTCRETE		
☐ C4a: Placement	Continuous	SI
☐ C4b: Shotcrete Material	Test	LOR
C5 | POST-INSTALLED ANCHORS		
☐ C5a: Inspection	See notes	SI*
☐ C5b: Test	Test	LOR
C6 | OTHER CONCRETE		
☐ C6a: Not used.	N/A	N/A
☐ C6b: Not used.	N/A	N/A
☐ C6c: Not used.	N/A	N/A
☐ C6d: Not used.	N/A	N/A
☐ C6e: Not used.	N/A	N/A
☐ C6f: Not used.	N/A	N/A
☐ C6g: Not used.	N/A	N/A
☐ C6h: Not used.	N/A	N/A
☐ C6i: Not used.	N/A	N/A
☐ C6k: Not used.	N/A	N/A
☐ C6l: Not used.		
Not used.		

* See Appendix for additional information.

Project Name: **Sky Country Elementary School** Application No.: **04-124109** Increment:
School District: **Jurupa Unified School District** File No.: **33-19**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

	TYPE	BY
M1 | STRUCTURAL MASONRY f'm PSI:		
☐ M1a: Mill Certificates - Reinf.	Periodic	SI*
☐ M1b: Material Certificates	Test	LOR
☐ M1c: Strength Test	Test	LOR
☐ M1d: Mortar Proportions	Periodic	SI
☐ M1e: Grout Proportions	Periodic	SI
☐ M1f: Batch Plant Inspection		SI
☐ M1g: Core Tests	Test	LOR
☐ M1h: Prisms	Continuous	SI
☐ M1i: Dowels and Supports	Periodic	SI
☐ M1j: Reinforcement and Members	Periodic	SI
☐ M1k: Reinforcement Placement	Continuous	SI
☐ M1l: Grout Placement	Continsuous	SI
☐ M1m: Unit Layup and Joints	Periodic	SI*
☐ M1n: Cold/Hot Weather Work	Periodic	SI
☐ M1o: Anchors and Embeds	Continuous	SI
☐ M1p: Grout Cavity	Continuous	SI
M2 | VENEER OR GLASS BLOCK PARTITIONS		
☐ M2a: Mortar and Grout	Periodic	SI
☐ M2b: Unit Layup and Joints	Periodic	SI
☐ M2c: Wires and Connector	Periodic	SI
☐ M2d: Anchors and Embeds	Periodic	SI
☐ M2e: Cold/Hot Weather Work	Periodic	SI*
☐ M2f: Adhered Veneer Bond	Test	LOR
M3 | POST-INSTALLED ANCHORS		
☐ M3a: Inspection	Varies*	SI*
☐ M3b: Test	Test	LOR
M4 | OTHER MASONRY		
☐ M4a: Not used.	N/A	N/A
☐ M4b: Not used.	N/A	N/A
☐ M4c: Not used.	N/A	N/A
☐ M4d: Not used.	N/A	N/A
☐ M4e: Not used.	N/A	N/A
☐ M4f: Not used.	N/A	N/A
☐ M4g: Not used.	N/A	N/A
☐ M4h: Not used.	N/A	N/A
☐ M4i: Not used.	N/A	N/A
☐ M4j: Not used.	N/A	N/A
☐ M4k: Not used.		
☐ M4l: Not used.		
☐ M4m: Not used.		
* See Appendix for additional information.		

	TYPE	BY
S/A1 | STEEL AND ALUMINUM		
☑ S/A1a: Material Identification	Periodic	*
☑ S/A1b: Unidentified Material	Test	LOR
☑ S/A1c: Steel Fabrication	Periodic	SI
☐ S/A1d: Buckling Restrained Brace	Test*	LOR
S/A2 | HIGH-STRENGTH BOLTS		
☐ S/A2a: Product Verification	Periodic	SI
☐ S/A2b: Bolts, Nuts, and Washers	Test	LOR
☐ S/A2c: Snug Tight	Periodic	SI
☐ S/A2d: Pretensioned / Slip-Critical	*	SI
S/A3 | WELDING		
☑ S/A3a: Weld Material	Periodic	SI
☑ S/A3b: Certificate of Compliance	Periodic	SI
☑ S/A3c: WPS and Qualifications	Periodic	SI
S/A4 | SHOP WELDING		
☑ S/A4a: Weld Category A	Continuous	SI
☑ S/A4b: Weld Category B	Periodic	SI
☑ S/A4c: Stairs and Railing	Periodic	SI
☐ S/A4d: Reinf. Steel Weldability	Periodic	SI
☐ S/A4e: Reinforcing Steel	Continuous	SI
S/A5 | FIELD WELDING		
☑ S/A5a: Weld Category A	Continuous	SI
☑ S/A5b: Weld Category B	Periodic	SI
☐ S/A5c: End Welded Studs	Periodic	SI
☐ S/A5d: Deck Welds	Periodic	SI
☐ S/A5e: Cold-Formed Steel	Periodic	SI
☐ S/A5f: Stairs and Railing	Periodic	SI
☐ S/A5g: Reinf. Steel Weldability	Periodic	SI
☐ S/A5h: Reinforcing Steel	Continuous	SI
S/A6 | NONDESTRUCTIVE TESTING		
☐ S/A6a: Ultrasonic	Test	LOR
☐ S/A6b: Magnetic Particle	Test	LOR
☐ S/A6c:Not used.	N/A	N/A
☐ S/A6d:Not used.	N/A	N/A
☐ S/A6e:Not used.	N/A	N/A
S/A7 | STEEL JOISTS AND TRUSSES		
☐ S/A7a: Fabrication	Continuous	SI
S/A8 | SPRAYED FIRE-RESISTANT MATERIALS		
☐ S/A8a: Surface and Installation	Periodic	SI
☐ S/A8b: Density	Test	LOR
☐ S/A8c: Bond: Adhesion/Cohesion	Test	LOR
* See Appendix for additional information.		

Project Name: **Sky Country Elementary School** Application No.: **04-124109** Increment:
School District: **Jurupa Unified School District** File No.: **33-19**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

	TYPE	BY
S/A9 | ANCHOR BOLTS AND ANCHOR RODS		
☐ S/A9a: Anchor Rods and Bolts	Test	LOR
☐ S/A9b: Other Threaded Rods	Test	LOR
S/A10 | STORAGE RACK SYSTEMS		
☐ S/A10a: Material Verification	Periodic	SI
☐ S/A10b: Fabrication	Periodic	SI
☐ S/A10c: Anchorage	Periodic	SI
☐ S/A10d: Completed System	Periodic	SI*
S/A11 | OTHER STEEL AND ALUMINUM		
☐ S/A11a: Not used.	N/A	N/A
☐ S/A11b: Not used.	N/A	N/A
☐ S/A11c: Not used.	N/A	N/A
☐ S/A11d: Not used.	N/A	N/A
☐ S/A11e: Not used.	N/A	N/A
☐ S/A11f: Not used.	N/A	N/A
☐ S/A11g: Not used.	N/A	N/A
☐ S/A11h: Not used.	N/A	N/A
☐ S/A11i: Not used.	N/A	N/A
☐ S/A11j: Not used.	N/A	N/A
W1 | PREFABRICATED WOOD TRUSSES		
☐ W1a: Open Web Truss Fabrication	Continuous	SI
☐ W1b: Metal Plate Truss Fabrication	Continuous	SI
W2 | MANUFACTURED WOOD ELEMENTS		
☐ W2a: GL Timber Fabrication	Continuous	SI
☐ W2b: CLT Fabrication	Continuous	SI
☐ W2c: Mass Timber Erection	Periodic	SI
☐ W2d: Connections Type A	Periodic	SI
☐ W2e: Connections Type B	Continuous	SI
☐ W2f: Sealants	Periodic	SI
W3 | OTHER WOOD		
☐ W3a: Not used.	N/A	N/A
☐ W3b: Not used.	N/A	N/A
☐ W3c: Not used.	N/A	N/A
☐ W3d: Not used.	N/A	N/A
☐ W3e: Not used.	N/A	N/A
☐ W3f: Not used.	N/A	N/A
☐ W3g: Not used.	N/A	N/A
☐ W3h: Not used.	N/A	N/A

* See Appendix for additional information.

	TYPE	BY
X | OTHER		
☐ X01: Product Load Test*	Test	LOR
☐ X02: Non-HSB Installation Torque	Continuous	SI*
☐ X03: Not used.	N/A	N/A
☐ X04: Not used.	N/A	N/A
☐ X05: Not used.	N/A	N/A
☐ X06: Not used.	N/A	N/A
☐ X07: Not used.	N/A	N/A
☐ X08: Not used.	N/A	N/A
☐ X09: Not used.	N/A	N/A
☐ X10: Not used.	N/A	N/A

EXEMPTIONS

Those items identified on the DSA-approved construction documents with a note indicating they are not part of the DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.

- ☑ Soils: Eligible shallow foundation elements**.
- ☐ Soils: Eligible deep foundation elements - type 1**.
- ☑ Soils: Eligible deep foundation elements - type 2**.
- ☐ Concrete/Masonry: Eligible post-installed anchors**.
- ☐ Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2.
- ☐ Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4.
- ☐ Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2.
- ☐ Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.
- ☐ Concrete: Eligible precast elements**.
- ☐ Welding: Eligible fences and gates**.
- ☐ Welding: Eligible railing and ramps**.
- ☑ Welding: Eligible interior cold-formed steel framing**.
- ☑ Welding: Eligible equipment curbs**.
- ☑ Welding: Eligible components supporting MEP distribution systems**.
- ☑ Welding: Eligible mounts and recreational equipment**.
- ☑ Welding: Eligible nonstructural components**.

** See Appendix for eligibility requirements.

Project Name: **Sky Country Elementary School** Application No.: **04-124109** Increment:
School District: **Jurupa Unified School District** File No.: **33-19**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Any items indicated on the approved construction documents with a note stating that the items are not part of the DSA approval are not considered in this form. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The exemption appendix at the end of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of nonstructural components, etc., per Title 24, Part 2, Chapter 17A.

Legend to TYPE and BY Columns:

Continuous - Indicates continuous special inspection is required.

Periodic - Indicates periodic special inspection is required.

Test - Indicates a test is required.

GE – Indicates special inspection shall be performed by a registered geotechnical engineer or his/her authorized representative, usually associated with the Laboratory of Record.

LOR – Indicates test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program (i.e., the Laboratory of Record for the project). See CAC Section 4-335.

PI - Indicates special inspection may be performed by a project inspector when specifically approved by DSA.

SI - Indicates special inspection shall be performed by an appropriately qualified/approved special inspector.

Required Verified Reports:

1. Structural Testing and Inspection: Form DSA 291
2. Shop Welding Inspection: Form DSA 291 or DSA 292

Verified reports are required on the following DSA forms:

DSA 291: Laboratory of Record Verified Report

DSA 292: Special Inspectors Employed Directly by the District Verified Report

DSA 293: Geotechnical Verified Report

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

Name of Design Professional in General Responsible Charge:

Roger Clarke

Name of Structural Engineer of Record (when applicable):

Signature of Architect or Structural Engineer: **Date:**

12.2.25

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124109 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/14/2026

Project Name: **Sky Country Elementary School**
School District: **Jurupa Unified School District**

Application No.: **04-124109** Increment:
File No.: **33-19**

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

NOTE: Undefined sections and table references found in this appendix are from the CBC, or California Building Code

S1. GENERAL:	
Test or Special Inspection	**Code References and Notes**
S1a: Site Preparation | Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:	
Test or Special Inspection	**Code References and Notes**
S2a: Fill Materials | Perform classification and testing of fill materials.	* Under the supervision of the geotechnical engineer.
S2b: Fill Placement | Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the end of this form listing exemptions for limitations.
S2c: Compaction | Compaction testing.	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

S3. DRIVEN DEEP FOUNDATIONS (PILES):	
Test or Special Inspection	**Code References and Notes**
S3a: Materials and Members | Verify pile materials, sizes and lengths comply with the requirements.	* By geotechnical engineer or his or her qualified representative.
S3b: Pile Capacity | Determine capacities of test piles and conduct additional load tests as required.	* Under the supervision of the geotechnical engineer.
S3c: Driving Operations | Inspect driving operations and maintain complete and accurate records for each pile.	* By geotechnical engineer or his or her qualified representative.

S3d: Pile Installation | Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	* By geotechnical engineer or his or her qualified representative.
S3e: Specialty Piles | For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	* As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	
Test or Special Inspection	**Code References and Note**
S4a: Drilling Operations | Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations.
S4b: Pier Construction | Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations.
S4c: Bearing Strata | Confirm adequate end strata bearing capacity.	Provide tests and inspections per CONCRETE section below.

S5. RETAINING WALLS:	
Test or Special Inspection	**Code References and Notes**
S5a: Backfill Placement | Placement, compaction and inspection of backfill.	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
S5b: Soil Reinf. and Drainage | Placement of soil reinforcement and/or drainage devices.	* By geotechnical engineer or his or her qualified representative.
S5c: Segmental Retaining Walls | Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.

S6 | OTHER SOILS	
Test or Special Inspection	**Code References and Notes**
S6a | Soil Improvements	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
S6b | Inspection of Soil Improvements	* By geotechnical engineer or his or her qualified representative.
S6c. | Not used.	N/A
S6d. | Not used.	N/A
S6e. | Not used.	N/A
S6f. | Not used.	N/A
S6g. | Not used.	N/A
S6h. | Not used.	N/A
S6i. | Not used.	N/A
S6j. | Not used.	N/A
S6k. | Not used.	N/A
S6l. | Not used.	N/A
S6m. | Not used.	N/A
S6n. | Not used.	N/A

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

C1. CAST-IN-PLACE CONCRETE	
Test or Special Inspection	**Code References and Notes**
C1a: Mix Design | Verify use of required design mix.	**Table 1705A.3 Item 5, 1903A.5, 1903A.7, 1904A.1, 1904A.2, 1910A.1 ; ACI 318 Ch. 19, 26.4, 26.13.3.2.**
C1b: Reinforcing Steel | Identify, sample, and test reinforcing steel.	**Table 1705A.3 Item 1, 1705A.3.9, 1908A.1, 1910A.2; ACI 318 Ch. 20 and Sections 25.2, 25.3, 25.5.1, 26.6.1; DSA IR 17-10 and BU 24-02. (See Appendix (end of this form) for exemptions.)**
C1c: Concrete Material | During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Table 1705A.3 Item 6, 1705A.3.9, 1905A.1.17; ASTM C31, ASTM C172; ACI 318 Sections 26.4, 26.5 & 26.12.**
C1d: Strength Test | Test concrete (f'c).	**1905A.1.17; ACI 318 Section 26.12.**
C1e: Batch Plant Inspection | Batch plant inspection: Continuous	**Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)**

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	**Code References and Notes**
C2a: Tendons and Anchorage | Sample and test prestressing tendons and anchorages.	**1705A.3.4 Table 1705A.3 Item 1, 1910A.3; ACI 318 Ch. 20 and Sections 25.2, 26.6.1.**
C2b: Tendon Placement | Inspect placement of prestressing tendons.	**1705A.3.4, Table 1705A.3 Items 1 & 9; ACI 318 Ch. 20 and Sections 25.2, 26.6.1-26.6.3.**
C2c: Concrete Strength | Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	**Table 1705A.3 Item 13; ACI 318 Sections 26.10.2, 26.11.2, 26.13.3.3. Special inspector to verify specified concrete strength test prior to stressing.**
C2d: Stressing Operations | Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	**1705A.3.4, Table 1705A.3 Item 9; ACI 318 Sections 26.10.2, 26.13.1, 26.13.3.2.**

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	**Code References and Notes**
C3a: General Fabrication | 1. Inspect fabrication of precast concrete members. * 2. Inspect reinforcement of the following precast concrete elements or system(s): a. special moment frames. b. boundary elements of special structural walls. c. coupling beams.	**1705A.3 Item 1, 7.** See Appendix for exemptions. *May be periodic where fabrication occurs in a PCI-certified plant. For underground structures, NPCA plant certification is acceptable. PCI MNL-116-21; PCI MNL-117-13; NPCA Quality Control Manual (QCM) 17th Edition. See IR A-15.

C3b: General Erection | Inspect erection of precast concrete members.	**Table 1705A.3 Item 10**.
C3c: Diaphragm Connections | For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts. 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	**Table 1705A.3 Item 11**.
C3d: Diaphragm Tolerances | Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	**Table 1705A.3 Item 12**

C4. SHOTCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	**Code References and Notes**
C4a: Placement | Inspect shotcrete placement for proper application techniques.	**1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4, and ACI 506R.**
C4b: Shotcrete Material | Sample and test shotcrete (f'_c).	**1908A.2 and 1705A.3.9.**

C5. POST-INSTALLED ANCHORS:	
Test or Special Inspection	**Code References and Notes**
C5a: Inspection | Inspect installation of post-installed anchors	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318 Sections 26.7.2, 26.13.1, 26.13.3.2, 26.13.3.3. * May be performed by the project inspector when specifically approved by DSA.
C5b: Test | Test post-installed anchors.	**1910A.5.** (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:	
Test or Special Inspection	**Code References and Notes**
C6a. | Not used.	N/A
C6b. | Not used.	N/A
C6c. | Not used.	N/A
C6d. | Not used.	N/A
C6e. | Not used.	N/A
C6f. | Not used.	N/A
C6g. | Not used.	N/A
C6h. | Not used.	N/A
C6i. | Not used.	N/A
C6j. | Not used.	N/A
C6k. | Not used.	Not used.
C6l. | Not used.	Not used.

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

M1. STRUCTURAL MASONRY:	
Test or Special Inspection	**Code References and Notes**
M1a: Mill Certificates - Reinf. | Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See item C1(b) for identification, sampling and testing of reinforcing steel.	**2103A.4**; TMS 602-16 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10 for unidentified reinforcing steel.
M1b: Material Certificates | Producer's certificate of compliance for masonry units, mortar and grout materials.	**1705A.4, 2103A.2, 2103A.3, 2103A.5;** TMS 602 Articles 1.5B.2, 2.1, 2.2, 2.6A and 2.6B, and Table 6 footnote 3.
M1c: Strength Test | Test masonry (f'm).	**1705A.4. For Unit Strength: 2105A.3**; TMS 602 Articles 1.4B.2 ,1.5B.1 & 1.5B.2. **For Prism (required when f'_m > 2000 psi):2105A.2;** TMS 602 Articles 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
M1d: Mortar Proportions | Verify proportions or properties of site-prepared, premixed or preblended mortar.	TMS 602, Table 3 (row 5), Table 4 Item 1a. DSA PR 20-01. (See Appendix (end of this form) for exemptions.)
M1e: Grout Proportions | Verify proportions or properties of site-prepared, premixed or preblended grout.	TMS 602, Table 3 (row 5), Table 4 Item 2d. (See Appendix (end of this form) for exemptions.)
M1f: Batch Plant Inspection | Batch plant inspection: Periodic	Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1,** or not required per **1705A.3.3.2.** See IR 17-13. Refer to TMS 602 Table 3 and Table 4, Item #3a. (See Appendix (end of this form) for exemptions.)
M1g: Core Tests | Test core-drilled samples.	**2105A.4**. (See Appendix (end of this form) for exemptions.)
M1h: Prisms | Inspect preparation of prisms.	TMS 602 Articles 1.4.B.3 & 1.4.B.4 & Table 4 Item 4.
M1i: Dowels and Supports | Verify size, location and condition of all dowels, construction supporting masonry, etc.	
M1j: Reinforcement and Members | Verify size, grade and type of reinforcement, connectors, and anchor bolts. Verify size and location of structural members.	TMS 602 Table 4, Items 1c & 3c.
M1k: Reinforcement Placement | Inspect placement of reinforcement, anchor bolts, and connectors.	TMS 602 Table 4 Item 2c.
M1l: Grout Placement | Placement, consolidation, and reconsolidation of grout.	TMS 602 Table 4 Item 3h.
M1m: Unit Layup and Joints | Inspect placement of masonry units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M1n: Cold/Hot Weather Work | Verify preparation, construction and protection of masonry during cold weather (temperature below 40º F) or hot weather (temperature above 90º F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M1o: Anchors and Embeds | Inspect type, size and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry	TMS 602 Table 4 Item 3d.

to structural members, frames and other construction.	
M1p: Grout Cavity | Inspect grout space, including mortar protrusions, prior to placement of grout.	TMS 602 Table 4 Item 2a.

M2. VENEER OR GLASS BLOCK PARTITIONS:	
Test or Special Inspection	**Code References and Notes**
M2a: Mortar and Grout | Verify proportions of site prepared mortar and grout and/or verify certification of premixed mortar.	TMS 602 Table 3 (row 5) and Table 4 Items 1a & 2d.
M2b: Unit Layup and Joints | Inspect placement of units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M2c: Wires and Connector | Inspect placement of wire, connectors and anchors	TMS 602 Table 4 Item 2c.
M2d: Anchors and Embeds | Inspect type, size and location of anchors and all other items to be embedded in masonry veneer including details of anchorage of masonry to veneer backing, frames and other construction.	TMS 602 Table 4 Item 3d.
M2e: Cold/Hot Weather Work | Verify preparation, construction and protection of masonry during cold weather (temperature below 40º F) or hot weather (above 90º F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M2f: Adhered Veneer Bond | Test adhered veneer bond strength.	**1410.2.1 (Field-constructed mock-up using specified unit, mortar, and substrate, laboratory tested in accordance with ASTM C1823).**

M3. POST-INSTALLED ANCHORS IN MASONRY:	
Test or Special Inspection	**Code References and Notes**
M3a: Inspection | Inspect installation of post-installed anchors	**1617A.1.19, 1705A.4, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic);** ACI 318 Section 26.13. * May be performed by the project inspector when specifically approved by DSA. (See Appendix (end of this form) for exemptions.)
M3b: Test | Test post-installed anchors.	**1705A.4, 1910A.5.** (See Appendix (end of this form) for exemptions.)

M4. OTHER MASONRY:	
Test or Special Inspection	**Code References and Notes**
M4a. | Not used.	N/A
M4b. | Not used.	N/A
M4c. | Not used.	N/A
M4d. | Not used.	N/A
M4e. | Not used.	N/A
M4f. | Not used.	N/A
M4g. | Not used.	N/A
M4h. | Not used.	N/A
M4i. | Not used.	N/A
M4j. | Not used.	N/A
M4k. | Not used.	Not used.
M4l. | Not used.	Not used.

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	
Test or Special Inspection	**Code References and Notes**
S/A1a: Material Identification | Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Table 1705A.2.1 Item 3a–3c.** 2202A.1**;** AISI S100 Section A3.1 & A3.2, AISI S240 Section A3 & A5, AISI S220 Sections A4 & A6. *By special inspector or qualified technician when performed off-site.
S/A1b: Unidentified Material | Test unidentified materials	**2202A.1.**
S/A1c: Steel Fabrication | Verify and document steel fabrication per DSA- approved construction documents.	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
S/A1d: Buckling Restrained Brace | Verify and document steel fabrication per DSA-approved construction documents.	Testing and special inspections in accordance with IR 22-4. For DSA accepted fabrication shops, BRB manufacturer's Certificate of Compliance in lieu of testing and special inspections. See IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:	
Test or Special Inspection	**Code References and Notes**
S/A2a: Product Verification | Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360 Section A3.3, J3.1, and N3.2; RCSC Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
S/A2b: Bolts, Nuts, and Washers | Test high-strength bolts, nuts and washers.	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC Section 7.2; DSA IR 17-8.
S/A2c: Snug Tight | Bearing-type ("snug tight") connections.	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Section 9.1; DSA IR 17-9.
S/A2d: Pretensioned / Slip-Critical | Pretensioned and slip-critical connections.	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Sections 9.2 & 9.3; DSA IR 17-9 *"Continuous" or "Periodic" depends on the tightening method used.

S/A3. WELDING:	
Test or Special Inspection	**Code References and Notes**
S/A3a: Weld Material | Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
S/A3b: Certificate of Compliance | Verify weld filler material manufacturer's certificate of compliance.	DSA IR 17-3.
S/A3c: WPS and Qualifications | Verify WPS, welder qualifications and equipment.	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	**Code References and Notes**
S/A4a: Weld Category A | Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Table 1705A.2.1 Items 5a.1–4;** AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4b: Weld Category B | Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4c: Stairs and Railing | Inspect welding of stairs and railing systems.	**1705A.2.1**; AISC 360 (and AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
S/A4d: Reinf. Steel Weldability | Verification of reinforcing steel weldability other than ASTM A706.	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A4e: Reinforcing Steel | Inspect welding of reinforcing steel.	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	**Code References and Notes**
S/A5a: Weld Category A | Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Table 1705A.2.1 Items 5a.1–4;** AISC 360 (AISC 341 as applicable); DSA IR 17-3.
S/A5b: Weld Category B | Inspect single-pass fillet welds ≤ 5/16".	**Table 1705A.2.1 Item 5a.5;** AISC 360 (AISC 341 as applicable); DSA IR 17-3.
S/A5c: End Welded Studs | Inspect end-welded studs (ASTM A-108) installation (including bend test).	**2213A.2**; AISC 360 (AISC 341 as applicable); AWS D1.1; DSA IR 17-3.
S/A5d: Deck Welds | Inspect floor and roof deck welds.	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360 (AISC 341 as applicable); AWS D1.3; DSA IR 17-3.
S/A5e: Cold-Formed Steel | Inspect welding of structural cold-formed steel.	**1705A.2.5;** AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
S/A5f: Stairs and Railing | Inspect welding of stairs and railing systems.	**1705A.2.1;** AISC 360 (AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
S/A5g: Reinf. Steel Weldability | Verification of reinforcing steel weldability.	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A5h: Reinforcing Steel | Inspect welding of reinforcing steel.	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

S/A6. NONDESTRUCTIVE TESTING:	
Test or Special Inspection	**Code References and Notes**
S/A6a: Ultrasonic | Ultrasonic	**1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5;** AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6b: Magnetic Particle | Magnetic Particle	**1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5;** AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6c: Not used.	N/A
S/A6d: Not used.	N/A
S/A6e: Not used.	N/A

S/A7. STEEL JOISTS AND TRUSSES:	
Test or Special Inspection	**Code References and Notes**
S/A7a: Fabrication | Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:	
Test or Special Inspection	**Code References and Notes**
S/A8a: Surface and Installation | Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	**1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.**
S/A8b: Density | Test density.	**1705A.15.1, 1705A.15.5, ASTM E605**
S/A8c: Bond: Adhesion/Cohesion | Bond strength adhesion/cohesion.	**1705A.15.1, 1705A.15.6, ASTM E736**

S/A9. ANCHOR BOLTS AND ANCHOR RODS:	
Test or Special Inspection	**Code References and Notes**
S/A9a: Anchor Rods and Bolts | Anchor Bolts and Anchor Rods	Identify, sample and test anchor bolts and anchor rods **not** meeting exemptions identified in Section 1 of IR 17-11.
S/A9b: Other Threaded Rods | Threaded rod not used for foundation anchorage.	Identify, sample and test threaded rods **not** meeting exemptions identified in Section 1 of IR 17-11.

S/A10. STORAGE RACK SYSTEMS:	
Test or Special Inspection	**Code References and Notes**
S/A10a: Material Verification | Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Table 1705A.13.7
S/A10b: Fabrication | Fabricated storage rack elements.	1704A.2.5; Table 1705A.13.7
S/A10c: Anchorage | Storage rack anchorage installation.	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
S/A10d: Completed System | Completed storage rack system to indicate compliance with the approved construction documents.	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

S/A11. Other Steel	
Test or Special Inspection	**Code References and Notes**
S/A11a. | Not used.	N/A
S/A11b. | Not used.	N/A
S/A11c. | Not used.	N/A
S/A11d. | Not used.	N/A
S/A11e. | Not used.	N/A
S/A11f. | Not used.	N/A
S/A11g. | Not used.	N/A
S/A11h. | Not used.	N/A
S/A11i. | Not used.	N/A
S/A11j. | Not used.	N/A
S/A11k. | Not used.	Not used.
S/A11l. | Not used.	Not used.

W1. PREFABRICATED WOOD TRUSSES:	
Test or Special Inspection	**Code References and Notes**
W1a: Open Web Truss Fabrication | Inspect fabrication of manufactured open-web trusses.	**1705A.5.6;** DSA IR 23-8.
W1b: Metal Plate Truss Fabrication | Inspect fabrication of manufactured metal-plate- connected trusses.	**1705A.5.6, 1705A.5.7;** DSA IR 23-4.

W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:	
Test or Special Inspection	**Code References and Notes**
W2a: GLS Timber Fabrication | Inspect fabrication of structural glued-laminated timber.*	* See **1705A.5.5** for exceptions
W2b: CLT Fabrication | Inspect fabrication of cross-laminated timber.	**1705A.5.5**
W2c: Mass Timber Erection | Inspect erection of mass timber.	**Table 1705A.5.3**, Item 2
W2d: Connections Type A | Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than described in item e below. Inspect concealed mass timber connections.	**Table 1705A.5.3**, Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.
W2e: Connections Type B | Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation.	**Table 1705A.5.3**, Item 3.2
W2f: Sealants | Inspect application of sealants or adhesives applied to mass timber elements.	**1705A.20**

W3. OTHER Wood:	
Test or Special Inspection	**Code References and Notes**
W3a. | Not used.	N/A
W3b. | Not used.	N/A
W3c. | Not used.	N/A
W3d. | Not used.	N/A
W3e. | Not used.	N/A
W3f. | Not used.	N/A
W3g. | Not used.	N/A
W3h. | Not used.	N/A
W3i. | Not used.	N/A
W3j. | Not used.	N/A
W3k. | Not used.	Not used.
W3l. | Not used.	Not used.

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

X1. OTHER:	
Test or Special Inspection	**Code References and Notes**
X01. | Load test for identified product(s):	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
X02. | Installation torque for non-HS bolts on communication tower identified as essential service facility projects (ESFP).	Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications. *EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
X03. | Not used.	N/A
X04. | Not used.	N/A
X05. | Not used.	N/A
X06. | Not used.	N/A
X07. | Not used.	N/A
X08. | Not used.	N/A
X09. | Not used.	N/A
X10. | Not used.	N/A

EXEMPTIONS

SOILS - EXEMPTIONS:
Soils: Eligible shallow foundation elements | Shallow foundations, are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception Item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC, Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill with depth not exceeding 12". These exempt structures shall be identified on the approved construction documents.
Soils: Eligible deep foundation elements, Type 1 | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.). These exempt structures shall be identified on the approved construction documents.
Soils: Eligible deep foundation elements Type 2 | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) single-story open fabric shade structure, or B) covered walkway structure with an apex height less than 10'-0" above adjacent grade. These exempt structures shall be identified on the approved construction documents.

CONCRETE/MASONRY - EXEMPTIONS:
Concrete/Masonry: Eligible post-installed anchors | Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment – see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below.
Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2. | Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4. | Epoxy shear dowels in site flatwork and/or other nonstructural concrete.
Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2. | Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. These exempt structures shall be identified on the approved construction documents.
Masonry: Freestanding site walls and retaining walls per DSA IR 21-1. | Freestanding and site retaining masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.
Eligible precast elements | Structural tests and special inspections are not required for the following concrete precast elements. Provide a certificate of compliance at delivery. Exemptions shall be identified on the approved construction documents. 1. Underground vaults no greater than 5 feet x 5 feet x unlimited height and pipe manufactured to an ASTM standard, 5 foot or less in diameter. 2. Elements manufactured in a PCI or NPCA certified manufacturing plant:

A. Underground vaults no greater than 16 feet in both length and width, of unlimited height, not subject to loading greater than HS 20-44. B. Pipe. C. Stair treads, landing planks.

WELDING - EXEMPTIONS:
Welding: Eligible fences and gates | Fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade.
Welding: Eligible railing and ramps | Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade; fillet welds shall not be ground flush.
Welding: Eligible interior cold-formed steel framing | Non-bearing non-shearwall interior cold-formed steel framing spanning less than 15'-0" in height and header less than 10'-0" in opening width, such as in interior partitions, interior soffits, etc.
Welding: Eligible equipment curbs | Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection.)
Welding: Eligible components supporting MEP distribution systems | Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection.)
Welding: Eligible mounts and recreational equipment | TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection.)
Welding: Eligible nonstructural components | Any support for exempt non-structural components given in CBC Section 1617A.1.18 meeting the following: A) when supported on a floor/roof, <400# or resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, and <20# for discrete units or <5 plf for distributed systems.

RUHNAU CLARKE ARCHITECTS

February 3, 2026

ADDENDUM NO. 1

TO THE CONTRACT DOCUMENTS

FOR
SKY COUNTRY ES – CHILDREN & FAMILY SERVICES WEST
FOR THE
JURUPA UNIFIED SCHOOL DISTRICT
4850 PEDLEY RD, JURUPA VALLEY, CA
JURUPA VALLEY, CA 92509

DSA #04-124109 FILE #33-19 RCA Job No. 1-41-58

NOTICE TO BIDDERS

This Addendum forms a part of the Contract and modifies the original bidding documents. It is intended that all work affected by the following modifications shall conform with related provisions and general conditions of the contract of the original drawings and specifications. Modify the following items wherever appearing in any drawing or sections of the specifications. Acknowledge receipt of Addendum No. 1 in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

GENERAL CHANGES

Item No. A.1 General Scoping Notes

- A.1.1 Contractor to be responsible for procuring encroachment permits and fees for new drive approaches and coordination with local jurisdiction.
- A.1.2 Contractor to be aware that construction will take place during an active campus. Shut off of utilities is only allowed outside of school hours and as approved by District only.
- A.1.3 Contractor to verify mechanical units of Portable Building "L" are in good, working shape once installation of portable is complete. Contractor to provide filter change and fan coil clean up once construction is complete and check charge of existing mechanical unit for proper usage.
- A.1.4 Contractor to provide ramps per DSA approved drawings. Contractor to be aware that ramp pieces are OFCI and available at Rubidoux High School for construction of ramps. Contractor to include pick up and relocation of ramp pieces from Rubidoux HS to Sky Country ES.
- A.1.5 Contractor to remove existing security grates on portable building "L" windows and patch and repair any holes to be flush with adjacent finish. Prepare for painting per exterior elevations.
- A.1.6 Contractor to remove any interior abandoned electrical conduit, pathways, outlets, etc. and patch and repair wall finishes as required.

CHANGES TO THE DRAWINGS

ARCHITECTURAL DRAWINGS

Item No. A.2 Reference Sheet SCP-1 – Specifications

- A.2.1 Add New Specification Section 01 21 00 – Allowances per context below:
  1. Architect to consult with Contractor for consideration selection of products, suppliers, and installers.

2. Architect to select products in consultation with District and transmit decision to Contractor. Architect to Prepare Change Orders as required.
3. Contractor to assist Architect in selection of products, suppliers and installers.
4. Contractor to obtain proposals from suppliers and installers and offer recommendations.
5. Contractor on notification of which products have been selected, execute purchase agreement with designated supplier and installer.
6. Contractor to arrange for and process shop drawings, product data, and samples. Arrange for delivery.
7. Contractor to promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
8. Differences in costs will be adjusted by Change Order.
9. Contractor's cost for products, delivery, installation, labor, insurance, payroll, taxes, bonding, Equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from the Contingency Allowance.
10. Funds will be drawn from the Contingency Allowance only by Change Order.
11. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

A.2.2 Contractor to provide a contingency allowance of $50,000 for any unforeseen items on the project.

A.2.3 Contractor to provide an allowance of $7,500 for ceiling tile replacement inside of portable Building "L".

A.2.4 Contractor to provide an allowance of $7,500 for District Standard Pelican Controls Thermostats

A.2.5 Contractor to provide an allowance in the amount of $20,000 for cost to replace siding of existing portable Building "L".

Item No. A.3 Reference Spec Section 01 23 00 – Alternates

A.3.1 Contractor to provide price for placement and procurement of Fabric Shade Structure as noted on Sheet AS-2.0 as Additive Alternative #1.

A.3.2 Add Section "B Alternate No. 2 – Electrical Boring" along with the following notes:

a. 1. Base Bid Item: Provide Trenching for Electrical scope as noted on Sheet ES-1.1.

b. 2. Alternate Item: Contractor to provide price for boring in lieu of trenching noted on Sheet ES-1.1 described with keynotes 5, 7, and 12. Contractor to note this as Alternate #2.

SPECIFICATIONS: **N/A**

DRAWINGS: **N/A**

END OF ADDENDUM #1

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Roger Clarke, Principal

#C-21340