



# PERRIS UNION

## HIGH SCHOOL DISTRICT

Informal Bid Documents

Bid # 031220

Pinacate Middle School Shade Structure Project

**Bid Responses due at 2:00 P.M. Thursday March 12, 2020**

## **BID DOCUMENTS**

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## 1. NOTICE TO BIDDERS

1. Notice is hereby given that the Board of Trustees of the Perris Union High School District (“District”), of the County of Riverside, State of California, will receive sealed informal bids for the construction associated with the Pinacate Middle School Shade Structure Project (“Project”) up to, but not later than, 2:00 p.m., on Thursday, March 12, 2020, and will thereafter publicly open and read aloud the bids. All bids shall be received at the District Office, Purchasing Department located at 155 E. 4<sup>th</sup> Street, Perris CA 92570.
2. Each bid shall be completed on the Bid Proposal Form included in the Contract Documents, and must conform and be fully responsive to this invitation, the plans and specifications and all other Contract Documents. Copies of the Contract Documents are available on the district website or by contacting Dawn Bray, at dawn.bray@puhsd.org.
3. Each bid shall be accompanied by cash, a cashier’s or certified check, or a bidder’s bond executed by a surety licensed to do business in the State of California as a surety, made payable to the District, in an amount not less than ten percent (10%) of the maximum amount of the bid. The check or bid bond shall be given as a guarantee that the bidder to whom the contract is awarded will execute the Contract Documents and will provide the required payment and performance bonds and insurance certificates within ten (10) days after the notification of the award of the contract.
4. This is a public works project and the successful bidder shall comply with the provisions of the Labor Code pertaining to payment of the generally prevailing rate of wages and apprenticeships or other training programs. The Department of Industrial Relations has made available the general prevailing rate of per diem wages in the locality in which the work is to be performed for each craft, classification or type of worker needed to execute the contract, including employer payments for health and welfare, pension, vacation, apprenticeship and similar purposes. Copies of these prevailing rates are available to any interested party upon request and are online at <http://www.dir.ca.gov/DLSR>. The Contractor and all subcontractors shall pay not less than the specified rates to all workers employed by them in the execution of the Contract. It is the Contractor’s responsibility to determine any rate change.
5. The schedule of per diem wages is based upon a working day of eight hours. The rate for holiday and overtime work shall be at least time and one half.
6. The substitution of appropriate securities in lieu of retention amounts from progress payments in accordance with Public Contract Code § 22300 is permitted.
7. Pursuant to Public Contract Code § 4104, each bid shall include the name, license number, and location of the place of business of each subcontractor who shall perform work or service or fabricate or install work for the contractor in excess of one-half of one percent (0.5%) of the bid price. The bid shall describe the type of the work to be performed by each listed subcontractor.
8. No bid may be withdrawn for a period of sixty (60) days after the date set for the opening for bids except as provided by Public Contract Code § 5100 et seq. The District reserves the right to reject any and all bids and to waive any informalities or irregularities in the bidding.
9. Minority, female, and disabled veteran contractors are encouraged to submit bids.

10. The project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations. In accordance with Labor Code §§ 1725.5 and 1771.1, all bidders, contractors and subcontractors working at the site shall be registered with the Department of Industrial Relations at time of bid opening and at all relevant times. Proof of registration shall be provided as to all such contractors prior to the commencement of any work.
11. Each bidder must possess at the time the bid is awarded the following classifications of California State Contractor's license: Class A or Class B - General Contractor –  
  
The Contractor's California State License number shall be clearly stated on the bidder's proposal.
12. The Board of Trustees has not found that the Project is substantially complex and therefore requires a standard retention amount of only five percent (5%).
13. Bidders' Conference and Site Walk. A bidders' conference and site walk in compliance with Public Contract Code § 6610 will be held at Pinacate Middle School on Tuesday, March 3, 2020 at 10:00 a.m. for the purpose of acquainting all prospective bidders with the Contract Documents and the Project site. Failure to attend the conference may result in the disqualification of the bid of the non-attending bidder.
15. A payment bond is required for a public works contract involving an expenditure in excess of twenty-five thousand dollars (\$25,000). Separate payment and performance bonds, each in an amount equal to 100% of the total Contract amount, are required, and shall be provided to the District prior to execution of the Contract and shall be in the form set forth in the Contract Documents. All bonds (Bid, Performance, and Payment) must be issued by a California admitted surety as defined in California Code of Civil Procedure section 995.120.

By: Perris Union High School District, Purchasing Department  
155 E. 4<sup>th</sup> Street Perris, CA 92570  
Attn: Dawn Bray, dawn.bray@puhsd.org

Notice sent to contractors listed with the District in compliance with Public Contract Code § 22034, on February 27, 2020.

## 2. INSTRUCTIONS TO BIDDERS

Each bid submitted to the Perris Union High School District (“District”) for the Pinacate Middle School Shade Structure Project (“Project”) shall be in accordance with the following instructions and requirements, which are part of the Contract Documents for this Project.

1. Deadline For Receipt of Bids. Each bid shall be sealed and submitted to the Purchasing Department no later than 2:00 p.m. on March 12, 2020. The District suggests that bids be hand delivered in order to ensure their timely receipt. Any bids received after the time stated, regardless of the reason, shall be returned, unopened, to the bidder.

2. Schedule of Events.

Event	Dates
Provide Notice to Listed Contractors	2/27/20
Mandatory Site Visit at PMS	3/3/20 at 10:00 A.M.
Requests for Clarifications to the Bid Documents Due	3/6/20
Responses to Requests for Clarifications Sent	3/9/20
Bids Due	3/12/20 at 2:00 P.M.
District Sends Out Notice of Intent to Award	3/19/20
District Awards Project at April Board Meeting	4/15/20

3. Bidders’ Conference and Site Walk. A bidders’ conference and site walk will be held on March 3, 2030 at 10:00 a.m. at Pinacate Middle School, 1991 South A Street, Perris, CA 92570 for the purpose of acquainting all prospective bidders with the Contract Documents and the Project site. The failure to attend the conference may result in the disqualification of the bid of the non-attending bidder.
4. Requests for Information. A bidder’s failure to request clarification or interpretation of an apparent error, inconsistency or ambiguity in the Contract Documents waives that bidder’s right to thereafter claim entitlement to additional compensation based upon an ambiguity, inconsistency, or error, which should have been discovered by a reasonably prudent Contractor, subject only to the limitations of Public Contract Code § 1104. To the fullest extent permitted by law District expressly disclaims responsibility for assumptions a bidder may draw from the presence or absence of information in the bid documents. Any questions relative to the bid shall be in writing and directed to the Purchasing Department at the address specified for receipt of bid proposals. These requests shall be submitted to the District at least four (4) working days prior to the date the bid is due.
5. Bid Proposal Forms. All bid proposals shall be made on the form provided by the District. All items on the form shall be filled out in ink. Numbers should be stated in figures, and the signatures of all individuals must be in long hand. The completed form should be without interlineations, alterations, or erasures.

6. Execution of Forms. Each bid shall give the full business address of the bidder and must be signed by the bidder or bidder's authorized representative with his or her usual signature. Bids by partnerships must furnish the full names of all partners and must be signed in the partnership name by a general partner with authority to bind the partnership in such matters. Bids by corporations must be signed with the legal name of the corporation, followed by the signature and designation of the president, secretary, or other person authorized to bind the corporation in this matter. The name of each person signing shall also be typed or printed below the signature. When requested by the District, satisfactory evidence of the authority of the officer signing on behalf of the corporation or partnership shall be furnished. A bidder's failure to properly sign required forms may result in rejection of the bid. All bids must include the bidder's contractor license number(s) and expiration date(s).
7. Bid Security. Bid proposals shall be accompanied by a certified or cashier's check or bid bond for an amount not less than ten percent (10%) of the bid amount, payable to the District. A bid bond shall be secured from an admitted surety company, licensed in the State of California, and satisfactory to the District. The bid security shall be given as a guarantee that the bidder will enter into the Contract if awarded the work, and in the case of refusal or failure to enter into the Contract within ten (10) calendar days after notification of the award of the Contract or failure to provide the payment and performance bonds and proof of insurance as required by the Contract Documents, the District shall have the right to award the Contract to another bidder and declare the bid security forfeited. The District reserves the right to pursue all other remedies in law or equity relating to such a breach including, but not limited to, seeking recovery of damages for breach of contract. Failure to provide bid security, or bid security in the proper amount, may result in rejection of the bid.
8. Withdrawal of Bid Proposals. Bid proposals may be withdrawn by the bidders prior to the time fixed for the opening of bids, but may not be withdrawn for a period of sixty (60) days after the opening of bids, except as permitted pursuant to Public Contract Code § 5103.
9. Addenda or Bulletins. The District reserves the right to issue addenda or bulletins prior to the opening of the bids subject to the limitations of Public Contract Code § 4104.5. Any addenda or bulletins issued prior to bid time shall be considered a part of the Contract Documents.
10. Bonds. The successful bidder shall be required to submit payment and performance bonds as specified in and using the bond forms included with the Contract Documents. All required bonds shall be based on the maximum total contract price as awarded, including additive alternates, if applicable.
11. Rejection of Bids and Award of Contract. The District reserves the right to waive any irregularities in the bid and reserves the right to reject any and all bids. The Contract will be awarded, if at all, within sixty (60) calendar days after the opening of bids to the lowest responsible and responsive bidder, subject to Board of Trustees approval. The time for

awarding the Contract may be extended by the District with the consent of the lowest responsible, responsive bidder.

12. Execution of Contract. The successful bidder shall, within ten (10) calendar days of the Notice of Award of the Contract, sign and deliver to the District the executed contract along with the bonds and certificates of insurance required by the Contract Documents. In the event the successful bidder fails or refuses to execute the Contract or fails to provide the bonds and certificates as required, the District may declare the bidder's bid deposit or bond forfeited as liquidated damages, and may award the work to the next lowest responsible, responsive bidder, or may reject all bids and, in its sole discretion, call for new bids. In all cases, the District reserves the right, without any liability, to cancel the award of Contract at any time prior to the full execution of the Contract.
13. Drawings and Specifications. All drawings, specifications and other documents used or prepared during the project shall be the exclusive property of the District.
14. Evidence of Responsibility. Upon the request of the District, a bidder shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, the bidder's experience in the type of work being required by the District, the bidder's availability to perform the Contract and any other required evidence of the bidder's qualifications and responsibility to perform the Contract. The District may consider such evidence before making its decision to award the Contract. Failure to submit requested evidence may result in rejection of the bid.
15. Taxes. Applicable taxes shall be included in the bid prices.
16. Bid Exceptions. Bid exceptions are not allowed. If the Bidder has a comment regarding the bid documents or the scope of work, the Bidder shall submit those comments to the District for evaluation at least four (4) working days prior to the opening of the bids. No oral or telephonic modification of any bid submitted will be considered and a sealed written modification may be considered only if received prior to the opening of bids. Emailed or faxed bids or modifications will not be accepted.
17. Discounts. Any discounts which the bidder desires to provide the District must be stated clearly on the bid form itself so that the District can calculate the net cost of the bid proposal. Offers of discounts or additional services not delineated on the bid form will not be considered by the District in the determination of the lowest responsible responsive bidder.
18. Quantities. The quantities shown on the plans and specifications are approximate. The District reserves the right to increase or decrease quantities as desired.
19. Prices. Bidders must quote prices F.O.B. unless otherwise noted. Prices should be stated in the units specified and bidders should quote each item separately.

20. Samples. On request, samples of any products being bid shall be furnished to the District.
21. Substitutions. In describing any item, the use of a manufacturer or brand does not restrict bidding to that manufacturer or brand, but is intended only to indicate quality and type of item desired, except as provided in Public Contract Code § 3400. Substitute products may be considered either prior to or after the award of the Contract in accordance with § 3400 and as set forth in either the Special Conditions or the Specifications. All data substantiating the proposed substitute as an “equal” item shall be submitted with the written request for substitution. The District reserves the right to make all final decisions on product and vendor selection.
22. Container Costs and Delivery. All costs for containers shall be borne by the bidder. All products shall conform to the provisions set forth in the federal, county, state and city laws for their production, handling, processing and labeling. Packages shall be so constructed to ensure safe transportation to the point of delivery.
23. Bid Negotiations. A bid response to any specific item of the bid using terms such as “negotiable,” “will negotiate,” or similar phrases, will be considered non-responsive.
24. Prevailing Law. In the event of any conflict or ambiguity between these instructions and state or federal law or regulations, the latter shall prevail. All equipment to be supplied or services to be performed under the bid proposal shall conform to all applicable requirements of local, state and federal law, including, but not limited to, Labor Code §§ 1771, 1778 and 1779.
25. Allowances. An “allowance” means an amount included in the bid proposal for work that may or may not be included in the Project, depending on conditions that will become known only after the Project is underway.
26. Subcontractors. Pursuant to the Subletting and Subcontracting Fair Practices Act, Public Contract Code §§ 4100 et seq., every bidder shall, on the enclosed Subcontractor List Form, set forth:
  - 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 bidder in or about the work or fabricate and install work in an amount in excess of one-half of the one percent (0.5%) of the bidder’s total bid.
  - b. If the bidder fails to specify a Subcontractor for any portion of the work to be performed under the Contract in excess of one-half of one percent (0.5%) of the bidder’s total bid, bidder agrees that bidder is fully qualified to and shall perform that portion of the work. The successful bidder shall not, without the written consent of the District or compliance with Public Contract Code §§ 4100 et seq., either:



- 1) Substitute any person as Subcontractor in place of the Subcontractor designated in the original bid;
  - 2) Permit any subcontract to be voluntarily assigned or transferred or allow the work to be performed by anyone other than the original Subcontractor listed in the bid; or
  - 3) Sublet or subcontract any portion of the work in excess of one-half of one percent (0.5%) of the total bid as to which the bidder's original bid did not designate a Subcontractor.
27. Examination of Contract Documents and Work Site. Before submitting a bid proposal, all bidders shall carefully examine the Contract Documents, including the plans and specifications, shall visit the site of the proposed work, and shall fully inform themselves of all conditions in and about the work site, as well as applicable federal, state and local laws and regulations that may affect the work. No bidder shall visit the site without prior authorization of the District. Bidders shall contact Purchasing Department designee for coordination of site visits.
28. Form and Approval of Contract. The Contract Documents must be approved by the Board of Trustees of the District and its legal counsel. The bidder selected by the District shall execute the contract provided by the District.
29. Licenses and Permits. Each bidder shall at all times possess all appropriate and required licenses or other permits to perform the work as identified in the Contract Documents. Upon request, each bidder shall furnish the District with evidence demonstrating possession of the required licenses or permits.
30. Denial of Right to Bid. Contractors or Subcontractors who have violated state law governing public works shall be denied the right to bid on this public works contract pursuant to Labor Code § 1777.7.
31. Bidders Interested in More Than One Bid. No person, firm, or corporation shall make, or file, or be interested in more than one bid. However, a person, firm, or corporation that has submitted a subproposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other bidders or from submitting a prime proposal.
32. Contractor's State License Board. Contractors and Subcontractors are required by law to be licensed and regulated by the California Contractors' License Board.
33. Fingerprinting. By law it is the District's responsibility to determine whether a contractor must provide fingerprint certification. Pursuant to Education Code § 45125.2, the District considers the totality of the circumstances in order to determine if fingerprinting of employees of a contractor working on a school site is required. Factors to be considered

include the length of time the contractor's employees are on school grounds, whether students are in proximity to the location where the contractor's employees are working, and whether the contractor's employees are working alone or with others.

34. Labor Compliance Monitoring. The Project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations. In accordance with Labor Code § 1771.1, all bidders, contractors and subcontractors working at the site shall be duly registered with the Department of Industrial Relations at time of bid opening and at all relevant times. Proof of registration shall be provided as to all such contractors prior to the commencement of any work.

35. Additive and Deductive Items: Method of Determining Lowest Bid. Pursuant to Public Contract Code § 20103.8, if the bid solicitation includes additive and/or deductive items, the checked [X] method shall be used to determine the lowest bid:

(a) The lowest bid shall be the lowest bid price on the base contract without consideration of the prices on the additive or deductive items.

(b) The lowest bid shall be the lowest total of the bid prices on the base contract and those additive or deductive items that were specifically identified in the bid solicitation or Bid Proposal Form as being used for the purpose of determining the lowest bid price.

(c) The lowest bid shall be the lowest total of the bid prices on the base contract and those additive or deductive items taken in order from a specifically identified list of those items that, when in the solicitation, and added to, or subtracted from, the base contract, are less than, or equal to, a funding amount publicly disclosed by the District before the first bid is opened.

(d) The lowest bid shall be determined in a manner that prevents any information that would identify any of the bidders or the proposed Subcontractors or suppliers from being revealed to the public entity before the ranking of all bidders from lowest to highest has been determined.

If no method is checked, sub-paragraph (a) shall be used to determine the lowest bid.

Notwithstanding the method used by the District to determine the lowest responsible bidder, the District retains the right to add to or deduct from the Contract any of the items included in the bid solicitation.

36. Public Records Act. Responses to the Bid Documents will become the property of the District and subject to the California Public Records Act, Government Code sections 6250, et seq. Those elements in each response that are trade secrets as that term is defined in Civil Code section 3426.1(d) or otherwise exempt by law from disclosure and which are prominently marked as "TRADE SECRET," "CONFIDENTIAL," or "PROPRIETARY" may not be subject to disclosure. The District shall not be liable or responsible for the

disclosure of any such records including, without limitation, those so marked if disclosure is deemed to be required by law or by an order of the Court. Any responses that indiscriminately identify all or most of its response as exempt from disclosure without justification may be deemed non-responsive. In the event the District is required to defend an action on a Public Records Act request for any of the contents of a response marked “Confidential,” “Trade Secret,” or “Proprietary,” each respondent agrees, by submission of its response for the District’s consideration, to defend and indemnify the District from all costs and expenses, including attorneys’ fees, in any action or liability arising under the Public Records Act.

37. Quality. All equipment and materials used in the installation should be new. Used, refurbished or repurposed equipment or material will not be acceptable.
38. Bid Protest. Any bid protest must be in writing and received by the District Office before 5:00 p.m. no later than five (5) calendar days following the issuance of a Notice of Intent to Award the bid, and shall comply with the following requirements:
  - a. The bid protest must contain a complete statement of the basis for the protest and all supporting documentation.
  - b. The party filing the protest must have actually submitted a bid for the Project. A Subcontractor of a bidder submitting a bid for the Project may not submit a bid protest. A bidder may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.
  - c. The protest must refer to the specific portion or portions of the Contract Documents upon which the protest is based.
  - d. The protest must include the name, address and telephone number of the person representing the protesting bidder.
  - e. The bidder filing the protest must concurrently transmit a copy of the bid protest and all supporting documentation to all other bidders with a direct financial interest which may be affected by the outcome of the protest, including all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
  - f. The bidder whose bid has been protested may submit a written response to the bid protest. Such response shall be submitted to the District before 5 p.m. no later than two (2) working days after the deadline for submission of the bid protest or receipt of the bid protest, whichever is sooner, and shall include all supporting documentation. Such response shall also be transmitted by the responding party concurrently to the protesting bidder and to all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.

- g. The procedure and time limits set forth in this section are mandatory and are the bidder's sole and exclusive remedy in the event of bid protest. By submitting a bid each bidder agrees that failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code claim or legal proceedings.
- h. If the District determines that a protest is frivolous, the protesting bidder may be determined to be non-responsible and that bidder may be determined to be ineligible for future contract awards by the District.
- i. A "working day" for purposes of this section means a weekday during which the District's office is open and conducting business, regardless of whether or not school is in session.

### 3. BID FORMS

Board of Trustees of the Perris Union High School District

Dear Members of the Board of Trustees:

The undersigned, doing business under the name of \_\_\_\_\_, having carefully examined the location of the proposed work, the local conditions of the place where the work is to be done, the Notice to Bidders, the General Conditions, the Instructions to Bidders, the Plans and Specifications, and all other Contract Documents for the proposed installation services associated with the Pinacate Middle School Shade Structure Project ("Project"), and having accurately completed the Bidder's Questionnaire, proposes to perform all work and activities in accordance with the Contract Documents, including all of its component parts, and to furnish all required labor, materials, equipment, transportation and services required for the construction of the Project in strict conformity with the Contract Documents, including the Plans and Specifications, as follows:

BASE BID:

For the sum of

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

ADDITIVE/DEDUCTIVE ALTERNATE *[if applicable]*:

Additive/Deductive Alternate #1 \_\_\_\_\_  
Add/Subtract \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

Additive/Deductive Alternate #2 \_\_\_\_\_  
Add/Subtract \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

Additive/Deductive Alternate #3 \_\_\_\_\_  
Add/Subtract \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

The undersigned has checked carefully all the above figures and understands that the District is not responsible for any errors or omissions on the part of the undersigned in making this bid.

Enclosed find certified or cashier's check no. \_\_\_\_\_ of the \_\_\_\_\_ Bank for \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) or Bidder's Bond of the \_\_\_\_\_ surety company in an amount of not less than ten percent (10%) of the entire bid. The undersigned further agrees, on the acceptance of this proposal, to execute the Contract and provide the required bonds and insurance and that in case of default in executing these documents within the time fixed by the

Contract Documents, the proceeds of the check or bond accompanying this bid shall be forfeited and shall become the property of the District.

Contractor agrees to commence the work within the time specified in the Notice to Proceed. It is understood that this bid is based upon completing the work within the number of calendar days specified in the Contract Documents.

**ADDENDA:**

Receipt of the following addenda is hereby acknowledged:

Addendum # \_\_\_\_\_ Dated: \_\_\_\_\_      Addendum # \_\_\_\_\_ Dated: \_\_\_\_\_  
Addendum # \_\_\_\_\_ Dated: \_\_\_\_\_      Addendum # \_\_\_\_\_ Dated: \_\_\_\_\_  
Addendum # \_\_\_\_\_ Dated: \_\_\_\_\_      Addendum # \_\_\_\_\_ Dated: \_\_\_\_\_

Respectfully submitted,

Company: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

By: \_\_\_\_\_  
*(Please Print Or Type)*

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

Contractor's License No: \_\_\_\_\_ Expiration Date \_\_\_\_\_

- Required Attachments:
- Subcontractor List Form
  - Workers' Compensation Certificate
  - Non-Collusion Declaration
  - Bid Bond (or Cashier's or Certified Check)



## WORKERS' COMPENSATION CERTIFICATE

Labor Code § 3700 in relevant part provides:

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

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- (b) 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 his employees.”

I am aware of the provisions of Labor Code § 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 provisions before commencing the performance of the work of this Contract and will require all Subcontractors to do the same.

---

Contractor

By: \_\_\_\_\_

*In accordance with Labor Code § 1860, the above certificate must be signed and filed with the awarding body prior to performing any work under this Contract.*



**NON-COLLUSION DECLARATION**

*To be executed by the bidder and submitted with the bid.*

\_\_\_\_\_, declares that he or she is \_\_\_\_\_ of \_\_\_\_\_, the party making the foregoing bid, and affirms that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that 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, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true and correct; and, further, that 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, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

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

Date: \_\_\_\_\_  
Signature \_\_\_\_\_

**BID BOND**

We, the Contractor, \_\_\_\_\_ as principal (“Principal”), and \_\_\_\_\_, as surety (“Surety”), are firmly bound unto the Perris Union High School District (“District”) in the penal sum of ten percent (10%) of the total amount of the bid of the Principal submitted to the District for the work described below for the payment of which sum in lawful money of the United States, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by this agreement.

Whereas, the Principal has submitted the accompanying bid (“Bid”) dated \_\_\_\_\_, for the following project (“Project”):  
\_\_\_\_\_ Project

Now, therefore, if the Principal does not withdraw its Bid within the period specified, and if the Principal is awarded the Contract and within the period specified fails to enter into a written contract with District, in accordance with the Bid as accepted, or fails to provide the proof of required insurance, the performance bond and/or the payment bond by an admitted surety within the time required, or in the event of unauthorized withdrawal of the Bid, if the Principal pays the District the difference between the amount specified in the Bid and the amount for which District may otherwise procure the required work and/or supplies, if the latter amount is in excess of the former, together with all related costs incurred by District, then the above obligation shall be void and of no effect. Otherwise, the Principal and Surety shall pay to the District the penal sum described above as liquidated damages.

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

In witness whereof the above-bound parties have executed this instrument under their several seals this \_\_\_\_\_ day of \_\_\_\_\_, 2020, the name and corporate seal of each corporate Party being hereunder affixed and these presents duly signed by its undersigned representative, pursuant to the authority of its governing body.

(Corporate Seal)

\_\_\_\_\_  
Principal/Contractor

By \_\_\_\_\_

Title: \_\_\_\_\_

(Corporate Seal)

\_\_\_\_\_  
Surety

Attach Attorney-In-Fact Certificate

By \_\_\_\_\_

\_\_\_\_\_  
Title

*To be signed by Principal and Surety and Acknowledgment and Notary Seal to be attached.*

## 4. CONTRACT

This Contract (“Contract”) is made by and between the Perris Union High School District (“District”), and \_\_\_\_\_ (“Contractor”).

District and Contractor hereby agree as follows:

### 1. Description of Work

The Contractor agrees to furnish all labor, equipment, tools, supervision, appurtenances, and services, including transportation and utilities, required to perform and satisfactorily to complete the following work:

- Assembly and installation of shade structure provided by District and associated work per plans and specifications.
- Work is to follow plans and specifications provided by District.
- DSA Project- will be overseen by Project Inspector provided by District.

The scope of the Project as covered in the plans and Specifications, attached hereto, is incorporated herein, and where different, supersedes the above list. Bidders are instructed review the plans and Specifications for detail regarding the scope of work for this Project.

### 2. Contract Documents

The Contract Documents consist of the executed Contract and all Addenda, all approved change orders, the completed Bid Forms, the required Bonds and the Insurance forms, the Notice to Bidders, the Instructions to Bidders, the Notice of Award, the Notice to Proceed, the General Conditions and any special conditions, and the Plans and Specifications.

### 3. Compensation

As full compensation for the Contractor’s complete and satisfactory performance of the work and activities described in the Contract Documents, the District agrees to pay Contractor, and Contractor agrees to accept the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), which shall be paid to the Contractor according to the Contract Documents.

### 4. Prevailing Wages

This Project is a public works project subject to prevailing wage requirements and Contractor and its Subcontractors are required to pay all workers employed for the performance of this Contract no less than the applicable prevailing wage rate for each such worker. Contractor acknowledges that the project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations in accordance with Labor Code § 1770 et seq.

5. Time for Completion

The starting date of the Contract shall be the day listed by the District in the Notice to Proceed, estimated to be approximately June 8, 2020, and the Contractor shall fully complete all the work before July 31, 2020. Time is of the essence in the performance of this Contract.

6. Liquidated Damages

Liquidated damages for the Contractor's failure to complete the Contract within the time fixed for completion are established in the amount of five hundred dollars (\$500.00) per calendar day.

7. Audit.

The District and Contractor are subject to the examination and audit of the California State Auditor for a period of three (3) years after the final payment under this Contract, in compliance with Government Code §8546.7.

IN WITNESS WHEREOF, the parties agree to the terms of this Contract on the day and year written below.

PERRIS UNION HIGH SCHOOL DISTRICT

\_\_\_\_\_  
Name

\_\_\_\_\_  
Contractor Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Contractor License No.  
and Expiration Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Individual Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

For: \_\_\_\_\_  
Corporation or Partnership

If Corporation, Seal Below.

## 5. PERFORMANCE BOND

WHEREAS, the Board of Trustees of the Perris Union High School District (“District”), at its meeting on \_\_\_\_\_, 2020, has awarded to \_\_\_\_\_ (“Principal”), the Contract for performance of the following project (“Project”): \_\_\_\_\_ Project.

WHEREAS, the Principal is required under the terms of the Contract to furnish a bond to the District as obligee ensuring its full and faithful performance of the Contract Documents, which are fully incorporated herein by this reference,

NOW, THEREFORE, we, the Principal and \_\_\_\_\_, as Surety, hereby guarantee the Principal’s full, faithful and complete performance of the Contract Document requirements in the penal sum of \_\_\_\_\_ dollars (\$ \_\_\_\_\_) for the payment of which sum will and truly be made, we bind ourselves, our heirs, executors, administrators and successors, jointly, severally, and firmly by this agreement to perform or have performed all of the work and activities required to complete the Project pursuant to the Contract Documents and to pay to the District all damages the District incurs as a result of the Principal’s failure to fully perform in accordance with the Contract Documents.

The condition of the obligation is such that if the Principal, its heirs, executors, administrators, successors or assigns shall in all things abide by, and well and truly keep and perform the covenants, conditions and agreements in the Contract Documents and any amendment thereof made as therein provided, on its or their parts to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall insure and indemnify and save harmless the District, its officers and agents, as therein stipulated, 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 no change, extension of time, alteration or addition to the Contract Documents shall in any way affect its obligations on this bond and it does hereby waive notice of any such change, extension of time, alteration or addition.

In the event of the District's termination of the Contract due to the Principal’s breach or default of the Contract Documents, within sixty (60) days after written notice from the District to the Surety of the Principal’s breach or default of the Contract Documents and District's termination of the Contract, the Surety shall notify District in writing of Surety's assumption of obligations hereunder by its election to either remedy the default or breach of the Principal or to take charge of the Work of the Contract Documents and complete the Work at its own expense ("Notice of Election"); provided, however, that the procedure by which the Surety undertakes to discharge its obligations under this Bond shall be subject to the advance written approval of the District, which approval shall not be unreasonably withheld, limited or restricted. The insolvency of the Principal or the Principal's mere denial of a failure of performance or default under the Contract Documents shall not by itself, without the Surety's prompt, diligent inquiry and investigation of such denial, be justification for Surety's failure to give the Notice of Election or for its failure to promptly remedy the failure of performance or default of the Principal or to complete the Work.

In the event the Surety fails to issue its Notice of Election to District within the time specified herein, the District may take all such action or actions necessary to cure or remedy the Principal's failure of performance or default or to complete the Work. The Principal and the Surety shall be each jointly and severally liable to the District for all damages and costs sustained by the District as a result of the Principal's failure of performance under the Contract Documents or default in its performance of obligations thereunder, including without limitation the costs of cure or completion exceeding the then remaining balance of the Contract Price; provided that the Surety's liability hereunder for the costs of performance, damages and other costs sustained by the District upon the Principal's failure of performance under or default under the Contract Documents shall be limited to the penal sum hereof, which shall be deemed to include the costs or value of any Changes of any Work which increases the Contract Price.

Principal and Surety further agree to pay all costs incurred by the District in connection with enforcement of this bond, including, but not limited to the District's reasonable attorney's fees and costs incurred, with or without suit, in addition to any other sum required by this bond. Surety further agrees that death, dissolution, or bankruptcy of the Principal shall not relieve the Surety of its obligations hereunder.

In witness whereof, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety on the \_\_\_\_\_ day of \_\_\_\_\_, 2020.

*To be signed by  
Principal and Surety  
and acknowledgment  
and notarial seal to  
be attached.*

\_\_\_\_\_  
PRINCIPAL

By: \_\_\_\_\_

TITLE \_\_\_\_\_

\_\_\_\_\_  
SURETY

By: \_\_\_\_\_

TITLE \_\_\_\_\_

The above bond is accepted and approved this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

By: \_\_\_\_\_  
Authorized District Signature



**PAYMENT BOND**

WHEREAS, the Perris Union High School District (“District”) and the Contractor, \_\_\_\_\_ (“Principal”) have entered into a contract (“Contract”) for the furnishing of all materials, labor, services, equipment, tools, supervision and transportation necessary, convenient and proper for the installation services associated with the Pinacate Middle School Shade Structure Project (“Project”) which Contract dated \_\_\_\_\_, 2020, and all of the Contract Documents made part thereof are fully incorporated herein by this reference; and

WHEREAS, Contractor/Principal is required by California Civil Code Section 9550 et seq. to furnish a bond in connection with the contract;

NOW, THEREFORE, we, the Contractor/Principal and \_\_\_\_\_ as Surety, are held firmly bound unto District in the penal sum of \$\_\_\_\_\_ Dollars (\$\_\_\_\_\_), lawful money of the United States of America for the payment of which sum 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 Contractor/Principal, his/her or its heirs, executors, administrators, successors, or assigns, or a subcontractor, shall fail to pay any person or persons named in Civil Code Section 9100 or fail to pay for any materials 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 Section 13020 of the Unemployment Insurance Code with respect to work and labor thereon of any kind, then said Surety will pay for the same, in or to an amount not exceeding the amount set forth above, and in case suit is brought upon this bond Surety will also pay such reasonable attorney’s 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 of the persons named in California Civil Code Section 9100 so as to give a right of action to such person or their assigns 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, specifications, or agreement pertaining or relating to any scheme or work of improvement described above 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 the time for any payment pertaining or relating to any scheme or work of improvement described above, 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 Surety be released from liability to those for whose benefit such

bond has been given, by reason of any breach of contract between the District and original contractor or on the part of any obligee named in such bond, unless permitted pursuant to law.

In witness whereof, this instrument has been duly executed by the Principal and Surety this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

*To be signed by  
Principal and Surety  
and acknowledgment  
and notarial seal to  
be attached.*

\_\_\_\_\_  
PRINCIPAL

By:

\_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
SURETY

By:

\_\_\_\_\_

\_\_\_\_\_  
Title

The above bond is accepted and approved this \_\_\_\_ day of \_\_\_\_\_, 2019.

By: \_\_\_\_\_  
Authorized District Signature

## 6. GENERAL CONDITIONS

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1. DEFINITIONS

Addendum: A written change or revision to the Contract Documents issued to the prospective bidders prior to the time of receiving bids.

Alternate: The sum to be added to or deducted from the base Bid if the change in scope of work as described in Alternates is accepted by the District.

Approved: Approved by the District or the District's authorized representative unless otherwise indicated in the Contract Documents.

Architect: The person or firm holding a valid license to practice architecture or engineering which has been designated (if any designated) to provide architectural or engineering design services on this Project. When Architect is referred to within the Contract Documents and no architect or engineer has in fact been designated, the matter shall be referred to the District.

As Directed: As directed by the District or its Architect, unless otherwise indicated in the Contract Documents.

As Selected: As selected by the District or its Architect, unless otherwise indicated in the Contract Documents.

Bid: The properly completed and signed proposal to perform the construction work for the Project as described in the Contract Documents.

Construction Manager: The individual or entity named as such by the District. If no Construction Manager is designated for the Project, all references to the Construction Manager in these Contract Documents shall mean the District and/or its designee.

Contract: The legally binding agreement between the District and the Contractor wherein the Contractor agrees to furnish the labor, materials, equipment, and appurtenances required to perform the work described in the Contract Documents and the District agrees to pay the Contractor for such work.

Contract Documents: The Contract Documents are described in the Contract for this Project.

Contractor: The person or entity holding a valid license in the State of California required for performing this Project and who has contracted with the District to perform the construction work described in the Contract Documents. The term Contractor shall be construed to mean all of the officers, employees, Subcontractors, suppliers, or other persons engaged by the Contractor for the work of this Project.

District and/or Owner: The District, its Board of Trustees, authorized officers and employees, and authorized representatives.

DSA: The State of California Division of the State Architect which has the authority to review, approve and inspect the design, alteration and construction of school buildings.

Final Completion: Final Completion is achieved when the Contractor has fully completed all Contract Document requirements, including, but not limited to, all final punch list items, to the District's satisfaction.

Inspector: The person engaged by the District to conduct the inspections required by the Education Code and Title 24.

Furnish: Purchase and deliver to the site of installation.

Board of Trustees: The Board of Trustees of the District.

Indicated or As Shown: Shown on drawings and/or as specified.

Install: Fix in place, for materials; and fix in place and connect, for equipment.

Modification: An authorized change to the Contract Documents which may or may not include a change in contract price and/or time.

Project: The total construction work and activities described in these Contract Documents.

Secure: Obtain.

Subcontractor: A person, firm, or corporation, duly licensed by the State of California, who has a contract with the Contractor to furnish labor, materials and equipment, and/or to install materials and equipment for work in this Contract.

## 2. ARCHITECT

The Architect is responsible for the overall design of the Project. The working drawings, technical Specifications, sketches and other information necessary to define the work covered by these Contract Documents have been prepared by the Architect. The Architect shall visit, inspect and observe the construction to determine general compliance with the Contract Documents, and interpret the drawings and Specifications consistent with their intent. The Architect shall evaluate the samples and other submittals required in the technical Specifications, and maintain an up-to-date log of all such items processed. The Architect will consult with the District, Contractor, and any state, county or city agency having jurisdiction over the work whenever necessary to further the best interests of the Project.

3. CONTRACT DOCUMENTS

a. Contents and Precedence

The Contract Documents consist of the executed Contract and all Addenda, all approved change orders, the completed Bid Form, the required Bonds and the Insurance forms, the Notice to Bidders, the Instructions to Bidders, the Notice of Award, the Notice to Proceed, the General Conditions, any special conditions, and the Specifications. The Contract Documents are complementary and anything required by one shall be as binding as if required by all. In case of conflicts within the Contract Documents, the order of precedence of interpretation shall be as listed above, with the executed Contract and any change order thereto having priority, and subsequent Addenda having priority over prior Addenda only to the extent modified by the subsequent Addenda. In case of conflict within the drawings, larger scale drawings shall govern smaller scale drawings, and written dimensions shall govern over scaled dimensions.

b. Ambiguities, Errors, and Inconsistencies

If, in the opinion of the Contractor, the construction details indicated on the drawings or otherwise specified are in conflict with accepted industry standards for quality construction and therefore might interfere with its full guarantee of the work involved, the Contractor shall promptly bring this information to the attention of the Architect for appropriate action before submittal of the bid. Contractor's failure to request clarification or interpretation of an apparent ambiguity, error or inconsistency waives that Contractor's right to thereafter claim any entitlement to additional compensation based upon an ambiguity, inconsistency, or error, which should have been discovered by a reasonably prudent Contractor, subject to the limitations of Public Contract Code §1104. During the Project, should any discrepancy appear or any misunderstanding arise as to the import of anything contained in the Contract Documents, the matter shall be promptly referred to the Architect (with written notice to the District's Construction Manager), who will issue instructions or corrections.

c. Lines and Planes

All lines and planes appearing on Contract drawings to be horizontal or vertical and not explicitly indicated otherwise shall be constructed true and plumb. All lines and planes appearing on Contract drawings to intersect at right angles and not explicitly indicated otherwise shall be constructed at true right angles. Where details are indicated covering specific conditions, such details also apply to all similar conditions not specifically indicated.

d. Standards

The specification standards of the various sections of the Specifications shall be the procedural, performance, and material standards of the applicable association publications identified and shall be the required level of installation, materials, workmanship, and



performance for the applicable work. Except where a specific date of issue is mentioned hereinafter, references to specification standards shall mean the edition, including amendments and supplements, in effect on the date of the Notice to Bidders. Where no standard is identified and a manufacturer is specified, the manufacturer's specifications are the standards. All standards shall be subordinate to the requirements of the applicable codes and regulations.

e. Reference to the Singular

Wherever in the Specifications an article, device or piece of equipment is referred to in the singular number, such reference shall include as many such items as are shown on drawings or required to complete the installation.

4. INTENT OF DRAWINGS AND SPECIFICATIONS

- a. Drawings and Specifications are to be read as an integrated document. The Contractor shall promptly report to the Architect any ambiguities, discrepancies, or errors which come to the Contractor's attention.
- b. Figured dimensions shall be followed in preference to scaled dimensions, and the Contractor shall make all additional measurements necessary for the work and shall be responsible for their accuracy. Before ordering any material or doing any work, the Contractor shall verify all measurements at the Project site and shall be responsible for the correctness of same.
- c. It is the intent of the drawings and Specifications to show and describe complete installations. Items shown but not specified, or specified but not shown, shall be included unless specifically omitted.
  - 1) The Specifications shall be deemed to include and require everything necessary and reasonably incidental to the completion of all work described and indicated on the drawings, whether particularly mentioned or shown, or not.

5. TRADE DIVISIONS

Segregation of the Specifications into the designated trade divisions is only for the purpose of facilitating descriptions and shall not be considered as limiting the work of any subcontract or trade. Subject to other necessary provisions set forth in the Specifications, the terms and conditions of such limitations or inclusions shall lie solely between the Contractor and its Subcontractors. "Scope" as indicated in each section of the Specifications shall serve only as a general guide to what is included in that section. Neither the stated description nor the division of the plans and Specifications to various sections, which is done solely for convenience, shall be deemed to limit the work required, divide or indicate it by labor jurisdiction or trade practice, or set up any bidding barriers to the various sub-contractors or suppliers.

- a. The Contractor shall be responsible for the proper execution of all work required by the Contract Documents and for allocating such portions as the Contractor sees fit to the various Subcontractors, subject to applicable law. The Contractor is cautioned that the various individual sections may not contain all work that the Contractor may wish to allocate to a particular Subcontractor or everything bearing on the work of a particular trade, some of which may appear in other portions of the plans or Specifications.
- b. If the Contractor elects to enter into any subcontract for any section of the work the Contractor assumes all responsibility for ascertaining that the Subcontractor for the work is competent, licensed, solvent, thoroughly acquainted with all conditions and legal requirements of the work, has included all materials and appurtenances in connection therewith in the subcontract, and has performed its work in strict compliance with the Contract Documents.
- c. It shall be the responsibility of the Contractor to notify each prospective Subcontractor at the time of request for bids of all portions of the Contract Documents, including the General Conditions, special conditions and any parts of sections of Specifications or plans that the Contractor intends to include as part of the subcontract.

6. MASTER MANDATORY PROVISIONS

- a. Any material, item, or piece of equipment mentioned, listed or indicated without definition of quality, shall be consistent with the quality of adjacent or related materials, items, or pieces of equipment on the Project.
- b. Any method of installation, finish, or workmanship of an operation called for, without definition of standard of workmanship, shall be followed or performed and finished in accordance with best practices and consistent with adjacent or related installations on the Project.
- c. Any necessary material, item, piece of equipment or operation not called for but reasonably implied as necessary for proper completion of the work shall be furnished, installed or performed and finished; and shall be consistent with adjacent or related materials, items, or pieces of equipment on the Project, and in accordance with best practices.
- d. Names or numbered products are to be used according to the manufacturers' directions or recommendations unless otherwise specified.

7. CONTRACTOR

- a. The Contractor shall perform all the work and activities required by the Contract Documents and furnish all labor, materials, equipment (other than those specified as being provided by the District), tools and appurtenances necessary to perform the work and complete it to the District's satisfaction within the time specified. The Contractor shall at

all times perform the work of this Contract in a competent and workmanlike manner and, if not specifically stated, accomplish the work according to the best standards of construction practice. 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. The Contractor shall employ a full-time competent superintendent and necessary assistants who shall have complete authority to act for the Contractor on all matters pertaining to the work. The superintendent shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Contractor with one that is acceptable. Also, the superintendent shall not be changed without the written consent of the District unless the superintendent ceases to be employed by the Contractor.
- c. Contractor shall make the layout of lines and elevations and shall be responsible for the accuracy of both the Contractor's and the Subcontractors' work resulting therefrom. All dimensions affecting proper fabrication and installation of all Contract work must be verified by the Contractor prior to fabrication and installation by taking field measurements of the true conditions. The Contractor shall take, and assist Subcontractors in taking, all field dimensions required in performance of the work, and shall verify all dimensions and conditions on the site. If there are any discrepancies between dimensions in drawings and existing conditions which will affect the work, the Contractor shall promptly bring such discrepancies to the attention of the Architect for adjustment before proceeding with the work. Contractor shall be responsible for the proper fitting of all work and for the coordination of all trades, Subcontractors and persons engaged upon this Contract.
- d. Contractor shall do all cutting, fitting, or patching of Contractor's work that may be required to make its several parts come together properly and fit it to receive or be received by work of other contractors as shown, or reasonably implied by, the drawings and Specifications for the completed work. Any cost incurred by the District due to defective or ill-timed work shall be borne by the Contractor.

8. RESPONSIBILITY OF CONTRACTOR

- a. Contractor shall be held strictly responsible for the proper performance of all work covered by the Contract Documents, including all work performed by Subcontractors. All work performed under this Contract shall comply in every respect to the rules and regulations of all agencies having jurisdiction over the Project or any part thereof.
- b. Contractor shall submit Verified Reports as defined in 24 California Code of Regulations ("CCR") §§ 4-336 and 4-343(c). The duties of the Contractor are as defined in 24 CCR § 4-343. Contractor shall keep and make available a copy of Title 24 of the CCR at the job site at all times.
- c. Where any item of fabricated materials and/or equipment, indicated on drawings or specified is unobtainable and it becomes necessary, with the consent of the Architect and

District, to substitute equivalent items differing in details or design, the Contractor shall promptly submit complete drawings and details indicating the necessary modifications of the work. To the extent the items represent a lower cost to contractor than what was originally specified, District shall be entitled to a corresponding decrease in the contract price. This provision shall be governed by the terms of the General Conditions regarding Submittals: Shop Drawings, Cuts and Samples.

- d. With respect to work performed at or near a school site, Contractor shall at all times take all appropriate measures to ensure the security and safety of students and staff, including, but not limited to, ensuring that all of Contractor's employees, Subcontractors, and suppliers entering school property strictly adhere to all applicable District policies and procedures, e.g., sign-in requirements, visitor badges, and access limitations.

9. SUBCONTRACTORS

- a. Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and the District. The District shall be deemed to be the third party beneficiary of the contract between the Contractor and each Subcontractor. If the Contractor does not specify a Subcontractor for any portion of the work to be performed under this Contract, as required by law, Contractor shall perform that portion of the work with its own forces. The Contractor shall not substitute any other person or firm as a Subcontractor for those listed in the bid submitted by the Contractor, without the written approval of the District and in conformance with the requirements of the Public Contract Code. The District reserves the right of approval of all Subcontractors proposed for use on this Project, and to this end, may require financial, performance, and such additional information as is needed to secure this approval. If a Subcontractor is not approved, the Contractor shall promptly submit another firm of the same trade for approval.
- b. The Contractor shall insert appropriate provisions in all subcontracts pertaining to work on this Project requiring the Subcontractors to be bound by all applicable terms of the Contract Documents. The Contractor shall be as fully responsible for the acts and omissions of the Subcontractors, and of persons either directly or indirectly employed by them, as the Contractor is for the acts and omissions of persons directly employed by the Contractor.

10. PERFORMANCE AND PAYMENT BONDS

- a. As directed in the Notice of Award, the Contractor shall file with the District the following bonds, using the bond forms provided with these Contract Documents:
  - 1) A corporate surety bond, in a sum not less than 100 percent of the amount of the Contract, to guarantee the faithful performance of the Contract.
  - 2) A corporate surety bond, in a sum not less than 100 percent of the amount of the Contract, to guarantee the payment of wages for services engaged and of bills

contracted for materials, supplies, and equipment used in the performance of the Contract.

- b. Corporate sureties on these bonds and on bonds accompanying bids must be admitted sureties as defined by law, legally authorized to engage in the business of furnishing surety bonds in the State of California. All sureties and bond forms must be satisfactory to the District. Failure to submit the required bonds within the time specified by the Notice of Award, using the forms provided by the District, may result in cancellation of the award of Contract and forfeiture of the Bid Bond.
- c. The amount of the Contract, as used to determine the amounts of the bonds, shall be the total amount fixed in the Contractor's proposal for the performance of the required work.
- d. During the period covered by the Contract, if any of the sureties upon the bonds shall become insolvent or unable, in the opinion of the District, to pay promptly the amount of such bonds to the extent to which surety might be liable, the Contractor, within thirty (30) days after notice given by the District to the Contractor, shall provide supplemental bonds or otherwise substitute another and sufficient surety approved by the District in place of the surety becoming insolvent or unable to pay. If the Contractor fails within such thirty (30) day period to substitute another and sufficient surety, the Contractor shall, if the District so elects, be deemed to be in default in the performance of its obligations hereunder and upon the bid bond, and the District, in addition to any and all other remedies, may terminate the Contract or bring any proper suit or other proceedings against the Contractor and the sureties or any of them, or may deduct from any monies then due or which thereafter may become due to the Contractor under the Contract, the amount for which the surety, insolvent or unable to pay, shall have been liable on the bonds, and the monies so deducted shall be held by the District as collateral security for the performance of the conditions of the bonds.

## 11. INSURANCE

- a. Contractor shall obtain insurance from a company or companies acceptable to District. All required insurance must be written by an admitted company licensed to do business in the State of California at the time the policy is issued. All required insurance shall be equal to or exceed an A VIII rating as listed in Best's Insurance Guide's latest edition. On a case-by-case basis, the District may accept insurance written by a company listed on the State of California Department of Insurance List of Eligible Surplus Lines ("LESLI List") with a rating of A VIII or above as listed in Best's Insurance Guides' latest edition. Required documentation of such insurance shall be furnished to the District within the time stated in the Notice of Award. Contractor shall not commence work nor shall it allow its employees or Subcontractors or anyone to commence work until all insurance required hereunder has been submitted and approved by the District and a notice to proceed has been issued.

- b. Contractor shall take out and maintain at all times during the life of this Contract, up to the date of acceptance of the work by the District, the following policies of insurance:

Type of Coverage	Minimum Requirement
<p align="center"><b>Commercial General Liability</b></p> <p>Including Bodily Injury, Personal Property Damage, Advertising Injury, and Medical Payments.</p> <p>Each Occurrence General Aggregate</p>	<p align="center">\$1,000,000 \$2,000,000</p>
<p align="center"><b>Automobile Liability Insurance – Any Auto</b></p> <p>Each Occurrence General Aggregate</p>	<p align="center">\$1,000,000 \$2,000,000</p>
<p align="center"><b>Workers Compensation</b></p>	<p align="center">Statutory Limits</p>
<p align="center"><b>Employer’s Liability</b></p>	<p align="center">\$1,000,000</p>

- 1) General Liability Insurance: Personal injury and replacement value property damage insurance for all activities of the Contractor and its Subcontractors arising out of or in connection with this Contract, written on a comprehensive general liability form including contractor’s protected coverage, blanket contractual, completed operations, vehicle coverage and employer’s non-ownership liability coverage, in an amount no less than:

- a. \$1,000,000.00 combined single limit personal injury and property damage for each occurrence and \$2,000,000.00 annual aggregate.

- 2) Automobile Liability Insurance: Covering bodily injury and property damage in an amount no less than \$1,000,000.00 combined single limit for each occurrence and \$2,000,000.00. Such insurance shall include coverage for owned, hired, and non-owned vehicles and be included on the umbrella/excess policy.

- c. The certificate(s) for the General Liability Policy(ies) and the Automobile Liability Policy specified above must state that the insurance is under an occurrence based, and not claims made, policy(ies) and shall be endorsed with the following specific language:

“The Perris Union High School District is an additional insured for all liability arising out of the operations by or on behalf of the named insured, and this policy protects the additional insured, its officers, agents and employees against liability for bodily injuries, deaths or property damage or destruction arising in any respect directly or indirectly in the performance of the Contract.”

- d. The certificate(s) for both the General Liability Policy and the Automobile Liability Policy, shall be endorsed with the following specific language:
- 1) The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured and the coverages afforded shall apply as though separate policies have been issued to each insured.
  - 2) The insurance provided herein is primary and no insurance held or owned by the District shall be called upon to contribute to a loss.
  - 3) Coverage provided by this policy shall not be reduced or canceled without thirty (30) days written notice given to the Owner by certified mail.
  - 4) This policy does not exclude explosion, collapse, underground excavation hazard, or removal of lateral support.
  - 5) The certificates must state that the insurance is under an occurrence based, and not a claims-made, or “modified occurrence,” policy (policies).
- e. Within ten (10) days following issuance of the Notice of Award of the Contract, the following documentation of insurance shall be submitted to District for approval prior to issuance of the Notice to Proceed: Certificates of insurance showing the limits of insurance provided, certified copies of all policies, and signed copies of the specified endorsements for each policy. At the time of making application for an extension of time, the Contractor shall submit evidence that the insurance policies will be in effect during the requested additional period of time.
- f. If the Contractor fails to maintain such insurance, the District may take out such insurance to cover any damages of the above mentioned classes for which the District might be held liable on account of the Contractor’s failure to pay such damages, and deduct and retain the amount of the premiums from any sums due the Contractor under the Contract.
- g. Workers’ Compensation Insurance:
- 1) Within ten (10) calendar days following issuance of the Notice of Award of the Contract, the Contractor shall furnish to the District satisfactory proof that the Contractor and all Subcontractors it intends to employ have procured, for the period covered by the Contract, full Workers’ Compensation insurance and employer’s liability coverage in the amount of the statutory limit, with an insurance carrier satisfactory to the District for all persons whom the Contractor may employ in carrying out the work contemplated under this Contract in accordance with the Workers’ Compensation Insurance and Safety Act, approved May 26, 1913, and all acts amendatory or supplemental thereto (the “Act”). Such insurance shall be maintained in full force and effect during the period covered by

the Contract. In the event the Contractor is self-insured, Contractor shall furnish a Certificate of Permission to Self-Insure, signed by the Department of Industrial Relations Administration of Self-Insurance, Sacramento, California.

- 2) If the Contractor fails to maintain such insurance, the District may take out worker's compensation insurance to cover any compensation which the District might be liable to pay under the provisions of the Act, by reason of any employee of the Contractor being injured or killed, and deduct and retain the amount of the premiums for such insurance from any sums due the Contractor under the Contract, or otherwise recover that amount from the Contractor or the Surety.
- 3) If an injury occurs to any employee of the Contractor for which the employee, or the employee's dependents in the event of the employee's death, is entitled to compensation under the provisions of the Act, or for which compensation is claimed from the District, the District may retain from the sums due the Contractor under this Contract an amount sufficient to cover such compensation, as fixed by the Act, until such compensation is paid, or until it is determined that no compensation is due, and if the District is compelled to pay such compensation, it will deduct and retain from such sums the amount so paid, or otherwise recover this sum from the Contractor or its Surety.
- 4) The policies represented by the certificates shall be endorsed with a Waiver of Subrogation and must contain the provision (and the certificates must so state) that the insurance cannot be canceled until thirty (30) days after written notice of intended cancellation has been given to the District by certified mail.

## 12. CODES AND REGULATIONS

- a. The Contractor shall be knowledgeable regarding and shall comply with applicable portions of California Code of Regulations Title 24, the applicable Building Code, and all other codes, ordinances, regulations or orders of properly constituted authority having jurisdiction over the work of this Project. The Contractor shall examine the Contract Documents for compliance with these codes and regulations and shall promptly notify the Architect of any discrepancies.
- b. All work and materials shall be in full accordance with the latest rules and regulations of the Safety Orders of the Division of Industrial Safety and the applicable State laws and/or regulations. Nothing in the Project plans or Specifications is to be construed to permit work not conforming to the applicable Codes. Buildings and/or all other construction covered by this Contract shall meet all the regulations for access by the physically handicapped as administered by the Division of the State Architect and as may be required by federal or state law.
- c. If the work under this Contract is for the construction of a school building as defined by the Education Code, then the following provisions shall apply to the Contract:



- 1) All work shall be executed in accordance with the current requirements of the Education Code and California Code of Regulations: Title 24 and Title 19. No deviations from the DSA approved plans and Specifications will be permitted except upon a Change Order or Addenda, signed by the District and Architect and approved by the Division of the State Architect and the State Fire Marshal, if applicable.
- 2) The Division of the State Architect shall be notified 48 hours in advance of the first pour of concrete.

13. PERMITS AND TAXES

- a. The Contractor shall obtain and pay for all permits, fees and licenses that are required in order to perform the work under this Contract. The District shall pay connection charges and meter costs for new permanent utilities required by these Contract Documents. The Contractor shall notify the District sufficiently in advance to submit requests for service to the appropriate utility companies so as to insure connections or installation of utility services in accordance with the Project schedule.
- b. The Contractor shall pay for all taxes on materials and equipment. The District is exempt from Federal Excise Tax. Contractor shall not pay Federal Excise Tax on any item in this Contract.

14. PATENTS AND ROYALTIES

All fees or claims for patents, royalties or licenses on materials, equipment or processes used in the performance of work on this Project shall be included in the amount of the Bid. The Contractor shall indemnify, defend, and hold harmless the District, its Board of Trustees, the Architect, and their officers and employees, from all claims or liability, including costs and expenses, which may arise from the use on this Project of any patented or copyrighted materials, equipment, or processes.

15. SAFETY AND FIRE PREVENTION

- a. The Contractor, Subcontractors and all of their agents and employees shall fully comply with all of the provisions and requirements of CAL/OSHA, Title 8, California Code of Regulations and all other safety codes applicable to the Project. The Contractor shall take thorough precautions at all times for the protection of persons and property, and shall be liable for all damages to persons or property, either on or off the site, which occur as a result of Contractor's prosecution of the work. The Contractor shall obtain permits for, install and maintain in safe condition barricades, walkways, fences, railings, and whatever other safeguards that may be necessary to protect persons and property from damage as a result of the construction under this Contract.

- b. Contractor is required to ensure Material Safety Data Sheets (“MSDS”) are available in a readily accessible place at the work site for any material requiring a MSDS pursuant to the federal “Hazard Communication” standard or employee “right to know” laws. Contractor is also required to ensure proper labeling on materials brought on the job site such that any person working with the material or within the general area of the material is informed of the hazards of the material and follows proper handling and protection procedures. A copy of the MSDS shall also be promptly submitted directly to the District.
- c. Contractor shall not endanger any work by cutting, excavating, or otherwise altering the work and shall not cut or alter the work of any other contractor except with the written consent of the Architect, nor overload any new or existing structures by the placing or storage of materials, equipment, or other items thereon, and, if necessary, shall provide calculations proving the safety in so doing.
- d. If it is necessary to work at night, or where daylight is obscured, the Contractor shall provide and maintain lighting of an adequate level to properly prosecute the work, to permit the thorough inspection of same, and to ensure the safety to workers and others.
- e. Contractor shall take extraordinary care to prevent fires and keep all flammable materials and oily rags in tightly closed metal containers. Contractor shall exercise particular care when welding or cutting, and with regard to the disposition of waste materials, the nature and quantity of which might create or increase a fire hazard.

16. HAZARDOUS MATERIALS

Unless otherwise specified, this Contract does not include the removal, handling, or disturbance of any hazardous substances or materials encountered in the new construction or on the Project grounds. If such substances or materials are encountered, work shall cease in that area and the District shall be promptly notified to take appropriate action for removal or otherwise abating the condition in accordance with current regulations applicable to the District.

a. General:

- 1) No asbestos, asbestos-containing products or other hazardous materials shall be used in this construction or in any tools, devices, clothing or equipment used to further this construction.
- 2) Asbestos and/or asbestos containing products shall be defined as all items containing but not limited to chrysotile, crocidolite, amosite, anthophyllite, tremolite or actinolite.
- 3) Any or all material containing greater than one tenth of one percent (>.1%) asbestos shall be defined as asbestos-containing material.

- 4) Any disputes involving the question of whether or not material contains asbestos shall be settled by electron microscopy; the cost of any such tests shall be paid by the Contractor.
- 5) All work or materials found to contain asbestos or work or material installed with asbestos containing equipment will be immediately rejected and this work shall be removed by the Contractor at no additional cost to the District.
- 6) In compliance with Education Code § 32244, no lead based paint shall be used on the Project.

b. Decontamination and Removal of Hazardous Material from Prior Work:

- 1) Decontamination and removal of work found to contain asbestos or work installed with asbestos containing equipment shall be done only under the supervision of a qualified consultant, knowledgeable in the field of asbestos abatement and accredited by the Environmental Protection Agency (“EPA”).
- 2) The asbestos removal contractor shall be an EPA-accredited contractor qualified in the removal of asbestos subject to the approval of the District.
- 3) The asbestos consultant shall be chosen and approved by the District which shall have sole discretion and final determination in this matter.
- 4) The work will not be accepted until asbestos contamination is reduced to levels deemed acceptable by the asbestos consultant.

c. Hold Harmless:

- 1) Interface of work under this Contract with work containing asbestos shall be executed by the Contractor at Contractor’s risk and at Contractor’s 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, as set forth in the indemnity provisions of this Contract, the Owner, its employees, agents and assigns for all asbestos liability which may be associated with this work and agrees to instruct Contractor’s employees and agents with respect to the above-mentioned standards, hazards, risks and liabilities.
- 2) The Contractor shall, prior to commencement of this work, provide a duly signed and notarized affidavit that Contractor has instructed Contractor’s employees and agents with respect to the above mentioned standards, hazards, risks and liabilities and the contents and requirements of this portion of the Contract Documents.

d. Certification:

The Contractor agrees that materials containing asbestos or other hazardous materials as defined in Federal and State law shall not be used in construction.

17. TEMPORARY FACILITIES

- a. The Contractor shall obtain permits for, install and maintain in safe condition all scaffolds, hoisting equipment, barricades, walkways, or other temporary structures that may be required to accomplish the work. Such structures shall be adequate for the intended use and capable of safely accepting all loads that may be imposed upon them. They shall be installed and maintained in accordance with all applicable codes and regulations.
- b. The Contractor shall provide and maintain temporary heat from an approved source whenever in the course of the work it may become necessary for curing, drying or warming spaces as may be required for the proper installation of materials or finishes. The Contractor shall provide and maintain any and all facilities that may be required for dewatering in order that work may proceed on the Project. If it is necessary for dewatering to occur continually, the Contractor shall have on hand whatever spare parts or equipment that may be required to avoid interruption of service or work.
- c. The Contractor shall promptly remove all such temporary facilities when they are no longer needed for the work or on completion of the Project. The Contractor shall repair any damage to premises or property which resulted from the construction, use, or removal of temporary facilities and shall restore the premises and property to their original condition.
- d. See the special conditions and/or specifications for requirements concerning temporary sanitary facilities and utilities.

18. SIGNS

No signs may be displayed on or about the District's property (except those which may be required by law) without the District's prior written approval of size, content and location. Any signs required by the District will be designated in the special conditions.

19. TIME

- a. The Contractor shall commence the work on the date indicated in the Notice to Proceed. Time is of the essence regarding the Contract work, and the Contractor shall prosecute the work diligently and regularly at such a rate of progress as to ensure completion of this Project within, or sooner than, the time specified.
- b. The Contractors and Subcontractors shall investigate and become aware of the amount of time required for the delivery of all equipment and materials required to perform the work under this Contract, and no extension of time shall be granted due to failure to order the

equipment and materials sufficiently before their incorporation into the work so as to avoid delay to the Project.

- c. The Contractor and Subcontractors shall provide and maintain enough manpower, materials and equipment to ensure a rate of construction progress that will complete the Project within or sooner than the time specified and according to the schedule of work. If, in the District's opinion, the Contractor and/or Subcontractors are not prosecuting the work at a sufficient rate of progress to meet the Project schedule, the District may direct the Contractor to provide additional manpower, materials or equipment, or to work additional hours, holidays or weekends without additional cost to the District until the work is progressing in a manner satisfactory to the District. Failure to prosecute the work in a timely manner according to the Project schedule is considered a breach of Contract and shall be cause for termination of the Contract.

## 20. CONSTRUCTION SCHEDULE

- a. Within fifteen (15) calendar days after the award of the Contract, the Contractor shall prepare and submit to the Architect and District an as-planned construction schedule showing in detail how the Contractor plans to prosecute the work within the time set for Final Completion. The schedule shall include the work of all trades necessary for construction of the Project, and shall be sufficiently complete and comprehensive to enable progress to be monitored on a day-by-day basis. The information for each activity shall include at a minimum the activity description, duration, start date and completion date.
- b. The Contractor shall take care in the preparation of the schedule to ensure that it represents an accurate and efficient plan for accomplishing the work. If the Project is more than one week behind schedule, it must be promptly revised showing how the Contractor plans to complete the work, but in no case shall it show a completion date later than that required by the Contract, unless a time extension has been granted. The current schedule shall be kept posted in the Contractor's project office on site.
- c. The Contractor shall be responsible for the coordination of all work necessary and pertaining to the construction whether actually a part of this Contract or attendant thereto. The Contractor shall notify the District and various utility companies, as far as possible in advance of their required work, in order that work schedules may be developed for all concerned, which will permit the most effective and timely accomplishment of the entire Project.

## 21. DELAYS AND TIME EXTENSIONS

- a. The Contractor may be granted a time extension if the Contractor encounters an unavoidable delay of the work due to causes completely beyond the Contractor's control and which the Contractor could not have avoided by the exercise of reasonable care, prudence, foresight and diligence. Causes for which a claim for extension of time may be

made include: acts of the public enemy, acts of another contractor in the performance of another contract with the District, priority of a governmental agency for materials or equipment, fire, flood, violent wind storm, epidemic, quarantine restriction, strike, freight embargo, or weather of an unusually severe nature. The Contractor will not be granted time extensions for weather conditions which are normal for the location of the Project, according to the U. S. Weather Bureau Records.

- b. A request for extension of time and compensation related thereto shall be made in writing to the Architect and District within ten (10) calendar days of the date the delay is encountered, or shall be deemed waived. The request shall include a detailed description of the reasons for the delay and corrective measures by the Contractor. The request shall be accompanied by evidence that the insurance policies required by the Contract shall be in effect during the requested additional period of time. In order for the Architect to consider a request for time extension, the Contractor must prove that the reasons stated for the delay actually caused a delay in portions of the work which will result in completion beyond the date specified in the Contract. The Contractor may also be granted a time extension for a significant change in the scope of work which request for extension of time shall be included in a Contract modification proposal.
- c. No damages or compensation or any kind shall be paid to a Contractor because of delays in the progress of work, whether such delays be avoidable or unavoidable, that are not the responsibility of District. District's liability to Contractor for delays for which District is responsible shall be limited to an extension of time unless such delays were unreasonable under the circumstances involved and were not within the contemplation of the parties when the Contract was awarded. The Contractor shall provide to the District the actual, substantiated costs to Contractor for which the Contractor may claim damages from District. Such costs, if any, shall be directly related to the Project, and shall not include costs that would be borne by the Contractor in the regular course of business, including, but not limited to, office overhead and ongoing insurance costs. Delay damages shall not include Contractor or Subcontractor markup for overhead and profit, but only actual, documented, and direct actual costs. The District shall not be liable for any damages which the Contractor could have avoided by any reasonable means including, but not limited to, the more judicious handling of forces or equipment.
- d. The granting of an extension of time because of unavoidable delays shall in no way operate as a waiver on the part of the District of the right to collect liquidated damages for other delays or of any other rights to which the District is entitled.

22. LIQUIDATED DAMAGES

- a. The parties understand and agree that the goodwill, educational process, and other business of District will be damaged if the Project is not completed within the time limits required. The parties have further agreed that the exact amount of damages for failure to complete the Work within the time specified is, in some cases, extremely difficult, impractical, or impossible to determine. As to those damages that are difficult,

impractical, or impossible to determine, should the Contractor fail to achieve Final Completion of this Contract within the time fixed for Final Completion, together with extensions granted by the District for unavoidable delays, Contractor shall become liable to the District in the amount specified in the Contract per calendar day for each day the Contract remains incomplete beyond the time for Final Completion, as liquidated damages and not as a penalty. Contractor shall not be charged with liquidated damages when the delay in completion of the work beyond the time for Final Completion is due to acts of the District.

- b. In addition to any liquidated damages which may be assessed, if Contractor fails to achieve Final Completion of this Contract within the time fixed for Final Completion, together with extensions granted by the District for unavoidable delays, and if as a result District finds it necessary to incur any costs and/or expenses, or if District receives any claims by other contractors, subcontractors, or third parties claiming time or other compensation by reason of Contractor's failure to complete work on time, Contractor shall pay all those costs and expenses incurred by District. These costs and expenses may include but are not limited to such items as rental payments, inspection fees, and additional architectural fees, whether related to the acquisition of facilities or caused by the delay in completion.
- c. Any money due or to become due the Contractor may be retained to cover liquidated and other delay damages. Should such money not be sufficient to cover those damages, the District shall have the right to recover the balance from the Contractor or Contractor's sureties.
- d. Should the District authorize suspension of the work for any cause, the time work is suspended will be added to the time for completion. Suspension of the work by the District shall not be a waiver of the right to claim liquidated or other delay damages as set forth in this section.

23. DISTRICT'S RIGHT TO STOP WORK; TERMINATION OR SUSPENSION OF THE CONTRACT

a. District's Right to Stop Work:

In addition to or as an alternative to any and all other remedies available to the District, if the Contractor fails to correct work which is not performed in accordance with the Contract Documents, or if the Contractor persistently fails to perform the work in accordance with the Contract Documents, the District may by written order direct the Contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated to the satisfaction of the District. However, the right of the District to stop the work shall not give rise to a duty on the part of the District to exercise this right for the benefit of the Contractor or any other person or entity, and the failure of the District to do so shall not be raised as a defense to the Contractor's failure to perform the work in accordance with the Contract Documents.

b. Termination for Cause:

- 1) If the Contractor refuses or fails to furnish sufficient materials, work force, equipment, and appurtenances to properly prosecute the work in a timely manner, or if Contractor refuses or fails to comply with any provisions of the Contract Documents, or if Contractor should file a bankruptcy petition or make a general assignment for the benefit of Contractor's creditors or if a receiver should be appointed on account of Contractor's insolvency, then the District may give the Contractor and Contractor's Surety written notice of intention to terminate the Contract. Unless within seven (7) calendar days after the serving of such notice upon the Contractor and Contractor's Surety such violation shall cease and arrangements for correction of such conditions shall be made satisfactory to the District, the Contract shall cease and terminate. In the event of such termination, the District shall immediately serve written notice thereof upon the Contractor and Contractor's Surety.
- 2) In the event of termination for cause, in addition to all remedies available to the District, the Contractor's Surety shall have the right to take over and perform the Contract; provided, however, that if the Surety does not commence performance within five (5) calendar days from the date of the issuance of such notice of termination, the District may take over the work and prosecute the same to completion by letting another Contract, or by any other method that the District deems advisable. The Contractor and Contractor's Surety shall be liable for any excess cost incurred by the District thereby, and in any such event the District may take possession of such materials, equipment, and other property belonging to the Contractor as may be on the site and use same in completing the work.

c. Termination or Suspension for Convenience:

The District reserves the right, in its sole discretion, to terminate or suspend all or part of the Contract for convenience following three (3) days written notice to the Contractor. In the event of termination or suspension for convenience, Contractor shall have no claims against the District, except:

- 1) The actual cost of labor, materials and services provided pursuant to the Contract, and which have not yet been paid for, as documented by timesheets, invoices, receipts and the like; and
- 2) Five percent (5%) of the total cost of the work performed as of the date of notice of termination or suspension or five percent (5%) of the value of the work yet to be completed, whichever is less. The parties agree that this amount shall constitute full and fair compensation for all Contractor's lost profits and other damages resulting from the termination or suspension for convenience.



24. ASSIGNMENT OF CONTRACT

The Contractor may not assign or delegate all or any portion of this Contract without the written consent of the District and no such consent shall be given which would relieve the Contractor or its Surety of their responsibilities under the Contract. The Contractor may assign, without liability to the District, monies due the Contractor under the Contract to banks, trust companies or other financial institutions provided written notice thereof is promptly delivered to the District. Assignment of monies earned by the Contractor shall be subject to the same retention as other payments made to Contractor, and shall also be subject to setoffs and back charges as provided by this Contract.

25. COORDINATION WITH OTHER CONTRACTS

- a. The District reserves the right to do other work or award other contracts in connection with this Project. By entering into this Contract, Contractor acknowledges that there may be other contractors on or adjacent to the Project site whose work must be coordinated with that of its own. Contractor expressly warrants and agrees that it will cooperate with other contractors and will do nothing to delay, hinder, or interfere with the work of other contractors, or that of the District, its Architect and Construction Manager. Contractor also expressly agrees that in the event its work is hindered, delayed, interfered with, or otherwise affected by a separate contractor, its sole remedy will be a direct action against the separate contractor. To the extent allowed by law, the Contractor expressly waives any remedy against the District, its Architect and Construction Manager on account of delay, hindrance, interference or other such events caused by a separate contractor.
- b. If any part of Contractor's work depends upon the work of a separate contractor, Contractor shall inspect such other work and promptly report in writing to the District and Architect any defects in such other work that render it unsuitable to receive the work of Contractor. Failure of the Contractor to so inspect and report shall constitute an acceptance of the other contractor's work, except as to defects which the Contractor could not have detected through the reasonable inspection of the other contractor's work prior to the execution of Contractor's work.
- c. If Contractor is aware of a current or potential conflict between Contractor's work and the work of another contractor on the site, and is unable to informally resolve the conflict directly with the other contractor, Contractor shall promptly provide written notice to the District, with a copy to the Architect and the other contractor, specifying the nature of the conflict, the date upon which the conflict arose, and the steps taken to attempt to resolve the conflict. The District may issue written instructions to address the conflict.
- d. If, through Contractor's negligence, any other contractor or subcontractor shall suffer loss or damage to the work, Contractor shall make a reasonable effort to settle with such other contractor and subcontractor by agreement or arbitration. If such other contractor or subcontractor shall assert any claim against the District or Architect, on account of any damage alleged to have been so sustained, the District or Architect shall notify the

Contractor, who shall defend such proceedings at Contractor's own expense and save harmless and indemnify the District and the Architect from any such claim.

26. SUBMITTALS: SHOP DRAWINGS, CUTS AND SAMPLES

- a. Five (5) copies of shop drawings, brochures and cuts and samples in quantities specified by the Architect shall be submitted to the Architect for all items for which they are required by the plans and Specifications. Prior to transmittal, the Contractor shall examine all submittals for accuracy and completeness in order to verify their suitability for the work and compliance with the Contract Documents and shall sign and date each submittal. Submittals shall be made sufficiently before the items are required for the work so as to cause no delay and shall be in accordance with the Project construction schedule.
- b. In addition to information furnished as common practice, submittals shall contain the Project name and location, Contractor's name and address, Subcontractor's or supplier's name and address, date of submittal and any revisions, and reference to appropriate specification section, and/or drawing and detail numbers. The Contractor and/or the Subcontractors shall verify in the field all dimensions and relationships to adjacent work necessary to ensure the proper fit of the items submitted. If necessary, the Contractor shall make any corrections required and resubmit with all due haste in the same number as initially required.
- c. Review of submittals, shop drawings, cuts or samples by the District or Architect shall not relieve the Contractor from complying with the requirements of the Contract Documents.
- d. Any materials or equipment installed without approval shall be at the Contractor's own risk, and Contractor may be required to remove any such materials or equipment and install the specified items at Contractor's own cost, including repairs to adjacent work.

27. PAYMENTS

a. Cost Breakdown:

Prior to submitting Contractor's first request for payment, the Contractor shall prepare and submit to the Architect and District a cost breakdown (schedule of values) showing the major work items for each trade or operation required in construction of the Project. The work items shall be sufficiently detailed to enable the Architect to accurately evaluate the completion percentages requested by the Contractor. The cost for each work item shall include overhead and profit. The total of all work item costs shall equal the amount of the Contract.

b. Scope of Payment:

Payment to the Contractor at the unit price or other price fixed in the Contract for performing the work required under any item or at the lump sum price fixed in the

Contract for performing all the work required under the Contract shall be full compensation for furnishing all labor, materials, equipment and tools necessary to the work, and for performing and completing, in accordance with the Specifications, all work required under the item or under the Contract, and for all expense incurred by the Contractor for any purpose in connection with the performance and completion of the work.

c. Progress Payments:

The Contractor will, on or about the last day of each month, make an estimate of the value of the work completed by Contractor in the performance of the Contract. These estimates shall be subject to the review and approval of the Architect. The first such estimate will be of the value of the work completed after the Contractor commenced the performance of the Contract, and every subsequent estimate, except the final estimate, will be of the value of the work completed since the immediately preceding estimate. Such estimates will be based on labor, materials and equipment incorporated into the work, and items of materials and equipment delivered to the Project. The Contractor shall be responsible for the security and protection of such materials and equipment delivered to the Project and not incorporated in the work. Within thirty (30) calendar days after the approval of each estimate for progress payment, the District will pay to the Contractor an amount equal to ninety five (95) percent of the approved estimate, unless a different retention percentage is stated in the Notice to Bidders, in which case that percentage applies. Payments may at any time be withheld if in the judgment of the District the work is not proceeding in accordance with the Contract Documents, the Contractor is not complying with the requirements of the Contract, stop notices have been timely filed, the estimate contains an error, or the District has incurred costs or requests reasonable financial assurances regarding defective work by the Contractor.

d. Final Payment:

Within thirty (30) days after all required work is fully completed in accordance with the Contract Documents, the Contractor shall submit a final invoice for the total value of the work completed in accordance with the Contract, which shall be subject to review and approval by the District. As required by law, District shall pay Contractor the unpaid balance of the Contract price of the work, or the whole Contract price of the work if no progress payment has been made, determined in accordance with the terms of the Contract, less such sums as may be lawfully retained under any provision of the Contract, including, but not limited to, amounts retained as liquidated damages, for stop notices, for third-party claims for which the Contractor is required to indemnify the District, for defective work and costs incurred by the District in connection therewith, or for other such claims and damages attributable to the Contractor (“Final Payment”). Prior progress estimates and payments are subject to correction in the Final Payment. Tender of the Final Payment shall constitute denial by the District of any unresolved claim. Contractor’s acceptance of the Final Payment shall operate as a full and final release to the District and its agents from any and all unasserted claims Contractor has, or may have, related to this

Contract. Pursuant to California Public Contract Code §7107, if there is any dispute between the District and the Contractor at the time that disbursement of the Final Payment is due, the District may withhold from disbursement of the Final Payment an amount not to exceed one hundred fifty percent (150%) of the amount in dispute.

e. Payments Do Not Imply Acceptance of Work:

The granting of any progress payment or payments by the District or the receipt thereof by the Contractor shall not constitute acceptance of the work or of any portion thereof, and shall in no way lessen the liability of the Contractor to replace unsatisfactory work or material, whether or not the unsatisfactory character of such work or material was apparent or detected at the time such payment was made.

f. Retention of Sums Charged Against Contractor:

It is mutually understood and agreed that when under any provision of this Contract the District shall charge any sums of money against the Contractor, the amount of such charge shall be deducted and retained by the District from the amount of the next succeeding progress estimate, or from any other monies due or that may become due the Contractor on account of the Contract. If on completion or termination of the Contract such monies due the Contractor are found insufficient to cover the District's charges against the Contractor, the District shall have the right to recover the balance from the Contractor or the Contractor's Sureties.

g. Release:

The Contractor and each assignee under an assignment in effect at the time of Final Payment shall, if required by the District, execute and deliver at the time of Final Payment and as a condition precedent to Final Payment, a release in form and substance satisfactory to and containing such exemptions as may be found appropriate by the District, discharging the District, its officers, agents and employees of and from liabilities, obligations and claims arising under this Contract.

h. Payment to Subcontractors and Suppliers:

The Contractor shall pay each Subcontractor and supplier promptly on receipt of each progress payment from the District for the materials, labor and equipment delivered to the site or incorporated in the work by each Subcontractor during the period for which the progress payment is made, less any retention as provided above.

i. Stop Notice Costs:

The District reserves the right to charge the Contractor or Surety, or to withhold from release of retention, all costs incurred by the District, including attorney's fees, for processing and defending stop notice claims.

28. MODIFICATIONS OF CONTRACT

a. Changes in the Work:

- 1) The District, before the date of acceptance of the work, may, without notice to the Sureties, order changes in the work (“Modifications”), may order extra materials and extra work in connection with the performance of the Contract, and the Contractor shall promptly comply with such orders. All Modifications must be approved by DSA and the State Fire Marshall, if applicable, as required by law.
- 2) If changes ordered in design, workmanship or materials are of such a nature as to increase or decrease the cost of any part of the work, the price fixed in the Contract shall be increased or decreased by such amount as represents the reasonable and proper allowance for the increase or decrease in the cost of the work in accordance with the provisions of this Article, and any other applicable terms of the Contract, including, but not limited to, the Contractor’s schedule of values and the price for allowances, if any. Except as provided by law, the total cost of all Modifications shall not exceed ten (10) percent of the original Contract price.
- 3) In the case of a disputed work item, the District may direct the Contractor to perform the disputed work at no additional cost to the District on the grounds that the work is adequately indicated in the Contract Documents, and therefore already included in the Contract price. If the Contractor maintains that the disputed work represents a modification to the Contract, Contractor may submit a claim in accordance with Article 50, Resolution of Construction Claims. Notwithstanding any dispute regarding the requirements of the Contract Documents, Contractor shall promptly and fully comply with the District’s directive. Contractor’s failure to do so shall be deemed a material breach of this Contract, and in addition to all other remedies, District may, at its sole discretion, hire another contractor and/or use its own forces to complete the disputed work at Contractor’s sole expense, and may deduct the cost of such work from the Contract price.

b. Cost Breakdown:

When the Modification is proposed, the Contractor shall furnish a complete breakdown of actual costs of both credits and extras, itemizing materials, labor, taxes, overhead and profit. Subcontract work shall be so indicated. All costs must be fully documented. The following limitations shall apply:

- 1) Limitations Where Contract Price Changes are Involved:
  - (a) Overhead and Profit for the Contractor. The Contractor’s overhead and profit on the cost of subcontracts shall be a sum not exceeding ten percent (10%) of such costs. The Contractor’s overhead and profit on the costs of

work performed by the Contractor shall be a sum not exceeding fifteen percent (15%) of such costs. Overhead and profit shall not be applied to the cost of taxes and insurance by Contractor or Subcontractors or to credits. No processing or similar fees may be charged by the Contractor in connection with the Modification. "Overhead and profit" shall include all plant, equipment rental and repair, project management, field coordination, job site project supervision and indirect labor and materials.

- (b) Bond Premiums. The actual rate of bond premiums as paid on the total cost (including taxes) will be allowed, but with no markup for profit and overhead.
- (c) Taxes. State and city sales taxes should be indicated. Federal excise tax shall not be included. (District will issue an exemption on request.)

2) Change Order Certification:

All change orders and requests for proposed change orders shall be deemed to include the following certification by the Contractor:

"The undersigned Contractor approves the foregoing as to the changes in work, if any, and as to the Contract price specified for each item and as to the extension of time allowed, if any, for completion of the Project as stated herein, and agrees to furnish all labor, materials, and service and to perform all work necessary to complete any additional work specified for the consideration stated herein. Submission of claims which have no basis in fact or which Contractor knows are false are made at the sole risk of the Contractor and may be a violation of the False Claims Act, as set forth in Government Code §§12650 *et seq.* It is understood that the changes to the Contract Documents set forth herein shall only be effective upon approval by the Board of Trustees of the District.

"It is expressly understood that the value of the extra work or changes 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 herein are deemed waived."

c. Unit Prices, Schedule of Values, or Allowances:

Where Unit Prices, a Schedule of Values, and/or Allowances are required by the Contract Documents, that pricing shall govern in computing any additions to or deductions from the Contract price on account of any added or omitted work. Unit Prices listed in the original bid include all costs and no addition of any description will be allowed.

d. Time and Materials:

If it is impractical, because of the nature of the work, or for any other reason, to fix an increase in price in advance, the Change Order may fix a maximum price which shall not under any circumstances be exceeded, and subject to such limitation, such alteration, modification or extra shall be paid for at the actual necessary cost as determined by the sum of the following items (1) to (5) inclusive:

- 1) Labor, including premium on compensation insurance and charge for Social Security taxes, and other taxes pertaining to labor.
- 2) Material, including sales taxes and other taxes pertaining to materials.
- 3) Plant and equipment rental, to be agreed upon in writing before the work is begun. No charge for the cost of repairs to plant or equipment will be allowed.
- 4) Overhead and profit computed at fifteen percent (15%) of the total of Items (1) to (3) inclusive.
- 5) The proportionate cost of premiums on bonds computed at one and one-half percent (1-1/2%) of the total of items (1) to (4) inclusive.

If the Time and Materials work is done by a Subcontractor, the amount shall be determined as set forth above under items (1) to (5) inclusive. The Contractor's overhead and profit on the costs of subcontracts (exclusive of taxes and insurance) shall not exceed ten percent (10%) of such costs.

The District reserves the right to furnish such materials as it may deem expedient, and no allowance will be made for profit thereon. The above-described methods of determining the payment for work and materials shall not apply to the performance of any work or the furnishing of any material which, in the judgment of the District, may properly be classified under items for which prices are established in the Contract.

e. Oral Modifications:

No oral statements of any person shall in any manner or degree modify or otherwise affect the terms of the Contract.

29. INDEMNITY

Contractor shall defend with counsel acceptable to the District, indemnify and hold harmless to the full extent permitted by law, the District and its Board of Trustees, officers, agents, Architect, construction manager, employees and volunteers from and against any and all liability, loss, damage, claims, expenses, fines, judgments and costs (including, without limitation, attorney's fees and costs and fees of litigation) (collectively, "Liability") of every nature arising out of or in

connection with Contractor's performance of the Project or its failure to comply with any of its obligations contained in these Contract Documents, except such Liability caused by the active negligence, sole negligence or willful misconduct of the District. Such indemnification shall extend to all claims, demands, or liabilities occurring after completion of the project as well as during the progress of the work. Pursuant to Public Contract Code § 9201, District shall timely notify Contractor of receipt of any third-party claim relating to this Project.

30. WARRANTY OF TITLE

Contractor warrants that title to all work, materials or equipment included in a request for payment shall pass and transfer to the District whether or not they are installed or incorporated in the Project, free from any claims, liens or encumbrances, when such payment is made to the Contractor. Contractor further warrants that no such work, materials or equipment have been purchased for work under the Contract subject to an agreement by which an interest therein or an encumbrance thereon is retained by the seller or supplier.

31. USE OF COMPLETED PARTS OF THE WORK BEFORE ACCEPTANCE

Whenever the work or any part thereof is in a condition suitable for use, and the best interest of the District requires such use, as determined by the District, the District may take possession of, connect to, open for public use, or use the work or a part thereof. When so used, maintenance and repairs due to ordinary wear and tear or vandalism will be made at District's expense. The use by the District of the work or part thereof as contemplated in this section shall in no case be construed as constituting acceptance of the work or any part thereof, including, but not limited to, the right to assess liquidated damages. Such use shall neither relieve the Contractor of any of Contractor's responsibilities under the Contract nor act as a waiver by the District of any of the conditions thereof. Contractor shall continue to maintain all insurance, including Builder's Risk insurance, on the entire Project, and diligently pursue full completion of the work.

32. GUARANTEE AND WARRANTY

a. By signing this Contract, Contractor agrees to the following guarantee and warranty:

**Guarantee & Warranty**

Contractor hereby guarantees and warrants its work on the Project for a period of two (2) years from the date of the filing of the Notice of Completion as follows.

Contractor shall promptly repair or replace to the satisfaction of the District any or all work that appears defective in workmanship, equipment and/or materials for whatever reason, ordinary wear and tear and unusual abuse or neglect excepted, together with any other work which may be damaged or displaced in so doing.



Contractor agrees to promptly correct and remedy any failure by the Contractor to conform its work, activities and services to the requirements of the Contract Documents.

In the event of the Contractor's failure to comply with the above-mentioned obligations within the ten (10) calendar days of notice, or sooner if required by an emergency, Contractor hereby authorizes the District to have the defects or deficiencies repaired, remedied, corrected and made good at Contractor's expense, and Contractor shall pay the costs and charges therefore upon demand. The Surety agrees to be responsible for these costs and charges as well.

This guarantee and warranty does not limit any other applicable guarantee or warranty that may be longer.

33. PROTECTION OF WORK AND PROPERTY

- a. The Contractor shall be responsible for each operation and all work on the Project, both permanent and temporary. The Contractor shall protect the work and materials from damage due to negligence, the action of the elements, the carelessness of third parties, vandalism, or any other cause whatsoever, until the final completion and acceptance of the Project. Should improper work by the Contractor be covered by another contractor and damage or defects result, the whole work affected shall be made good by the Contractor to the satisfaction of the Architect and District without expense to the District. The Contractor shall take reasonable care to avoid damage to existing facilities or utilities, whether on the Project or adjacent to it, and Contractor shall be liable for any damage thereto or interruption of service due to Contractor's operations. If the Contractor encounters any facilities or utilities not shown on the drawings or not reasonably inferable therefrom, Contractor shall promptly notify the Architect about them, and shall do no further work which may cause damage to same. If it is determined that some action needs to be taken regarding facilities not shown, the Contractor will be given directives on what action to take, and any additional cost to the Contractor incurred thereby will be handled by Change Order.
- b. The property limits of the area of the Project are indicated on the drawings. Except for work specifically shown or noted, Contractor shall confine Contractor's operations within the indicated property limits. The Contractor shall provide, install, and maintain all shoring, bracing and underpinning necessary to support adjacent property, streets, buildings and structures, that may be affected by building operations for this work; shall serve or cause to be served all legal notices to adjoining property owners that may be necessary for their protection; and shall protect from damage all adjacent buildings, fences, landscaping, and repair or replace any such property damaged in the course of work under the Contract.

34. USE OF ROADWAYS AND WALKWAYS

The Contractor shall not unnecessarily interfere with use of any roadway, walkway or other facility for vehicular or pedestrian traffic by any party entitled to use it. Wherever such interference becomes necessary for the proper and convenient performance of the work and no satisfactory detour route exists, the Contractor shall, before beginning the interference, provide a satisfactory detour, temporary bridge, or other proper facility for traffic to pass around or over the interference and shall maintain it in satisfactory condition as long as the interference continues, all without extra payment unless otherwise expressly stipulated in the Contract Documents.

35. MATERIALS

- a. Unless explicitly stated otherwise, all specified equipment and material comprising the work of this Contract, as being provided or furnished or installed, shall imply the inclusion of all components, hardware and accessories, required for complete installation and satisfactory operation as intended by the manufacturer. Wherever the method of installation of any material is not explicitly specified, the installation shall be as recommended by manufacturer.
- b. Wherever in the Contract Documents it is provided that the Contractor shall furnish materials or equipment for which no detailed specifications are set forth, such materials or equipment shall be new and of the best grade for the purpose for which they will be used when incorporated in the work. Materials specified by reference to a number or symbol of a specific standard, such as A.S.M., Federal Specification, State Standard, Trade Association, or similar standards, shall comply with requirements in the latest revision thereof and any amendment or supplement in effect on the date of the notice to bidders.
- c. None of the materials to be provided furnished or installed on this project shall contain asbestos or any other "hazardous substance" as that term is defined by federal or state law.

36. SUBSTITUTIONS

- a. Wherever in the drawings or Specifications a material or product is called for by trade or brand names or manufacturer and model number, alternative items of equal quality and purpose may be proposed for use by the Contractor, as specified in the Instructions to Bidders. The burden of proof of equality is on the Contractor, and Contractor shall furnish all information and supplies necessary for the Architect and District to make a thorough evaluation of the proposed substitution. The decision about the equality of the proposed substitution is final, and if the proposed substitution is not approved, the Contractor shall install the item called for. Proposed substitutions and any changes in adjacent work caused by them shall be made by the Contractor at no additional cost to the District.
- b. Proposed substitutions shall be submitted sufficiently before actual need to allow time for thorough evaluation. Substitutions shall not be proposed for the reason that submittals

were not made early enough to avoid delay. The review of substitutions shall not relieve the Contractor from complying with the requirements of the drawings and Specifications.

- c. In the event Contractor makes substitutions in materials, equipment, or designs, with or without the District's approval, other than those authorized herein, the Contractor shall then assume full responsibility for the effects of such substitutions on the entire Project, including the design, and shall reimburse the District for any charges resulting from such substitutions, including any charges for modifications in the work of other trades, and including any charges for additional design and review, plus reasonable and customary mark-ups.

37. TESTING

- a. Materials, equipment, or other work requiring tests may be specified in the Contract Documents, and they shall be adequately identified and delivered to the site in ample time before intended use to allow for testing. If such materials, equipment or other work should be covered without required testing and approval, they shall be uncovered at the Contractor's expense, including any repairs or replacement resulting therefrom. The Contractor shall notify the District and Architect when and where such materials, equipment or other work are ready for testing, and Contractor shall bear the cost of making them available for testing. The Contractor shall notify the District and Architect sufficiently before the need for testing so as to cause no delay in the work and, in any case, at least forty-eight (48) hours prior to the need for testing.
- b. The cost of initial tests called for will be paid by the District and will be performed by independent testing consultants retained by the District. All other tests and inspections specified or otherwise required to substantiate compliance with specified requirements for quality of material or performance of operation shall be paid for by the Contractor. If retesting or additional testing is necessary because of substandard initial test results, the costs thereof shall be paid by the Contractor, including any repairs or replacement resulting therefrom.

38. INSPECTION

- a. All materials, equipment and workmanship used in the work of the Project shall be subject to inspection or testing at all times and locations during construction and/or manufacture. The District's and Architect's authorized representatives and representatives of other agencies having authority over the work shall have access to the work for the above purposes at all reasonable times and locations. Any material or work found to be unsatisfactory or not according to the Contract Documents shall be replaced with the correct material or work and the defective items promptly removed, all at the Contractor's expense, when directed to do so by any of the above-named persons having authority over the work. The cost of review time and analysis by the Architect or other District consultants necessitated by incomplete or defective work by the Contractor shall be charged to the Contractor.

- b. Inspection and testing by the District or its representatives shall not relieve the Contractor from complying with the requirements of the Contract Documents. The Contractor is responsible for its own quality control.
- c. Whenever required by the District or Architect, the Contractor shall furnish all tools, labor and materials necessary to make an examination of work in place by uncovering the same. Should such work be found unsatisfactory, the cost of examination and reconstruction shall be paid by the Contractor. Should such work be found satisfactory, the cost of examination and reconstruction of the work shall be paid by Change Order unless the Contractor improperly covered the work before it could be inspected or tested. If the Contractor considers it necessary or desirable to work on Saturday, Sunday or a holiday, Contractor shall seek written approval from the District at least forty-eight (48) hours before the commencement of such work.

39. CLEANUP

- a. The Contractor shall maintain the premises and area of the work in a neat and clean condition. No burning of rubbish on site shall be allowed. The Contractor shall control dust on the site by sprinkling at whatever intervals are necessary to keep it laid down and shall take measures to prevent dust and debris from being accidentally transported outside the area of the work.
- b. Final cleaning, such as sweeping, dusting, vacuuming, dry and wet mopping, polishing, sealing, waxing and other finish operations normally required on newly installed work shall be taken to indicate the finished conditions of the various new and existing surfaces at the time of acceptance. Prior to the time of acceptance, all marks, stains, fingerprints, dust, dirt, splattered paint and blemishes resulting from the various operations shall be removed throughout the Project. Stair treads and risers shall be wet-mopped. Glass shall be left clean and polished both inside and outside. Plumbing fixtures and light fixtures shall be washed clean. Hardware and other unpainted metals shall be cleaned and all building papers and other temporary protections shall be removed throughout the building, or portion of the building where Contractor was involved, all to the satisfaction of the Architect and District. The exterior of the buildings, playfields, exterior improvements, and planting spaces and other work areas shall be similarly clean and in good order.

40. CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS

- a. Scope:
  - 1) This Article includes requirements for the diversion by the Contractor of construction and demolition debris from landfills. The Contractor shall develop and implement a Waste Management Plan as specified herein. The Contractor shall take a pro-active, responsible role in the management of construction and demolition waste and require all subcontractors, vendors, and suppliers to

participate in the effort.

- 2) The District has established that this Project shall generate the least amount of waste practicable and that processes shall be utilized that ensure the generation of as little waste as possible due to over-packaging, error, poor planning, breakage, mishandling, contamination or other factors.
- 3) As much of the waste materials as economically feasible shall be reused, salvaged or recycled. Waste disposal in landfills shall be minimized.
- 4) The Contractor is encouraged to use waste hauling companies that separate recyclable materials. The Contractor shall work with its waste haulers in providing other recycling methods as appropriate.
- 5) The Contractor is responsible for implementation of any special programs involving rebates or similar incentives related to the recycling of waste. Revenues or other savings obtained for salvage or recycling accrue to the Contractor.

b. References:

- 1) “Builders’ Guide to Reuse and Recycling, A Directory for Construction and Demolition Materials.”
- 2) “Construction Site Recycling, a Guide for Building Contractors.” For a copy of the guide call 1-888-442-2666 or go to [www.recycleworks.org](http://www.recycleworks.org).
- 3) “Where to Recycle Construction and Demolition Debris.” For a copy of the guide call 1-888-442-2666 or go to [www.recycleworks.org](http://www.recycleworks.org).

c. Definitions:

- 1) General: Construction and demolition waste includes products of demolition or removal, excess or unusable construction materials, packaging materials for construction products, and other materials generated during the construction process but not incorporated into the work.
- 2) “Divert” means to use material for any lawful purpose other than disposal in a landfill or transfer facility for disposal
- 3) “Recycling Service” means an off-site service that provides processing of material and diversion from a landfill.
- 4) “Hauler” means the entity that transports construction and demolition debris to either a landfill or a recycling service.

d. Compliance with regulatory requirements:

- 1) The Contractor shall perform all handling, storage, transportation and disposal of construction debris in compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinance, codes and standards.
- 2) Nothing stated on the drawings, in this Article 40 or in any other provision of the Contract Documents shall be construed as allowing work that is not in strict compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards.

e. Performance Requirement:

- 1) The Contractor shall divert a minimum of fifty percent (50%) of the total Project construction and demolition waste from landfills.

f. Quality Control:

1) General:

- i) The Contractor shall not permit materials designated for diversion to become contaminated or to contaminate the site or surrounding areas.

2) Training and Coordination:

- i) The Contractor shall designate an on-site party [or parties] who will be responsible for instructing workers and subcontractors, and overseeing and documenting the results of the Waste Management Plan for the Project.
- ii) The Contractor shall furnish copies of the Waste Management Plan to all on-site supervisors, each subcontractor, and the District's representative.
- iii) The Contractor shall include construction waste management as an item on the agenda of all progress meetings.

3) The Waste Management Plan:

- i) The Contractor shall prepare a Waste Management Plan for diverting the specified percentage of construction debris from landfills, including written and graphic information indicating how the waste will be diverted.
- ii) Include in the plan both on-site recycling of construction debris and

off-site diversion from landfills.

- iii) Identify the means and methods for collecting and separating each type of debris deemed reusable or recyclable.
- iv) List the off-site recycling service and hauler of each designated debris item who has agreed to accept and divert that item from the landfill in the proposed quantities anticipated. List the service and hauler company name, address, telephone number, and persons contacted.
- v) List the name of individuals on the Contractor's staff responsible for waste prevention and management.
- vi) List the actions that will be taken to reduce solid waste generation, including coordination with subcontractors to ensure awareness and participation.
- vii) Describe the specific approaches to be used in recycling/reuse of the various materials generated, including the areas on site and equipment to be used for processing, sorting, and temporary storage of wastes.
- viii) Characterize the waste to be generated, including estimated types and quantities. Name the landfills and/or incinerator to be used.
- ix) List the specific waste materials that will be salvaged for resale, salvaged and reused on the Project, salvaged and stored for reuse on a future project, or recycled. Recycling facilities that will be used shall be identified by name, location, and phone number.
- x) Identify the materials that cannot be recycled or reused with an explanation or justification, to be approved by the Architect.

The Contractor shall submit the Plan to the Architect within 10 calendar days after receipt of the Notice to Proceed, or prior to any waste removal, whichever occurs first. The Contractor shall promptly revise and resubmit the Plan as required by the Architect. Review of the Contractor's Waste Management Plan will not relieve the Contractor of responsibility for compliance with applicable environmental regulations or meeting Project diversion requirements.

g. Plan Implementation

- 1) The Contractor shall implement the approved Waste Management Plan.
- 2) The Contractor shall maintain a log of each load and of each category of waste that is diverted from the landfill. The Contractor shall separately log the debris

sent to a Class III landfill and materials sent to recycling facilities.

- 3) The Contractor shall include in the log the type of load, load weight, name of the hauling service, recycling service or landfill, and the date accepted by the recycling service or by the landfill.
- 4) The Contractor shall retain and make available all weight tickets and copies of receipts and invoices relating to the implementation of the Plan.
- 5) The District reserves the right to audit the log at any time.

h. Material Handling

- 1) Designate a specific area or areas on site to facilitate the separation of materials for potential reuse, salvage, recycling, and return. Clearly mark bins for each category of waste.
- 2) Keep waste bins and pile areas neat and clean. Do not contaminate non-recyclable waste with materials designated for reuse or recycling.

i. Contractor's Responsibilities

- 1) Provide on-site instruction of the appropriate separation, handling, recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.
- 2) Separate, store, protect, and handle at the site identified recyclable and salvageable waste products in a manner that maximizes recyclability and salvagability of identified materials. Provide the necessary containers, bins and storage areas to facilitate effective waste management. Provide barriers and enclosures around recyclable material storage areas which are non-hazardous and recyclable or reusable and which shall be located away from construction traffic. Provide adequate space for pick-up and delivery. Use cleaning materials that are non-hazardous and biodegradable.

41. INSTRUCTIONS AND MANUALS

Three copies of the maintenance instructions, application/installation instructions and service manuals called for in the Specifications shall be provided by the Contractor. These shall be complete as to drawings, details, parts lists, performance data and other information that may be required for the District to easily maintain and service the materials and equipment installed under this Contract. All manufacturer's application/installation instructions shall be given to the Architect at least ten (10) days prior to first material application or installation of the item. The maintenance instructions and manuals, along with any specified guarantees, shall be delivered to the Architect for review prior to submitting to District, and the Contractor or appropriate



Subcontractors shall instruct District's personnel in the operation and maintenance of the equipment prior to final acceptance of the Project.

42. AS-BUILT DRAWINGS

The Contractor and all Subcontractors shall maintain on the work site a separate complete set of contract drawings which will be used solely for the purpose of recording changes made in any portion of the work during the course of construction, regardless of the reason for the change. As changes occur, there will be included or marked on this record set on a daily basis if necessary to keep them up to date at all times. Actual locations to scale shall be identified on the drawings for all runs of mechanical and electrical work, including all site utilities installed underground, in walls, floors, and furred spaces, or otherwise concealed. Deviations from the drawings shall be shown in detail. All main runs, whether piping, conduit, duct work, drain lines, etc., shall be located in addition by dimension and elevation. Progress payments may be delayed or withheld until such time as the record set is brought up to date to the satisfaction of the Architect. The Contractor shall verify that all changes in the work are included in the "AS-BUILT" drawings and deliver the complete set thereof to the Architect for review and approval within thirty (30) calendar days after District's notice of completion. District's acceptance and approval of the "AS-BUILT" drawings are a necessary condition precedent to the release of the final retention.

43. SUBSTITUTION OF SECURITIES

- a. Pursuant to Public Contract Code §22300, Contractor may request in writing that it be allowed at its own expense to substitute securities for moneys withheld by District to ensure performance under this Contract. Only securities listed in Government Code §16430 and bank or savings and loan certificates of deposit, interest-bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by Contractor and District shall qualify under this Article. Securities equivalent to the amount withheld shall be deposited with the District or with a state or federally chartered bank in California as the escrow agent. Upon satisfactory completion of the Contract and on written authorization by the District, the securities shall be returned to Contractor. Contractor shall be the beneficial owner of the securities and shall receive any interest thereon. The Contractor may alternatively request District to make payment of retentions earned directly to the escrow agent at the expense of the Contractor.
- b. At the expense of the Contractor, the Contractor may direct the investment of the payments into securities and the Contractor shall receive the interest earned on the investments upon the same terms provided for above for securities deposited by Contractor. Upon satisfactory completion of the Contract, Contractor shall receive from the escrow agent all securities, interest, and payments received by the escrow agent from the District. The Contractor shall pay to each Subcontractor, not later than 20 days of receipt of payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention.

- c. Any escrow agreement entered into pursuant to this Article shall comply with Public Contract Code § 22300 and shall be subject to approval by District’s counsel.

44. NO DISCRIMINATION

It is the policy of the District that, in connection with all work performed under this public works contract, there shall be no discrimination against any prospective or active employee or any other person engaged in the work because of actual or perceived race, color, ancestry, national origin, ethnic group identification, religion, sex, gender, sexual orientation, age, physical or mental disability, or marital status. The Contractor agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment Practice Act, beginning with Government Code § 12900, Government Code § 11135, and Labor Code §§ 1735, 1777.5, 1777.6 and 3077.5. In addition, the Contractor agrees to require like compliance by all Subcontractors and suppliers.

45. LABOR STANDARDS

- a. Work Hours:

In accordance with Labor Code § 1810, eight (8) hours of labor shall constitute a legal day’s work under this Contract. Contractor and any Subcontractor shall pay workers overtime pay as required by Labor Code § 1815. The Contractor shall pay each worker, laborer, mechanic or persons performing work under this Contract at a rate not less than the prevailing wage for each craft or classification covering the work actually performed.

- b. Penalty:

Contractor shall forfeit to District as a penalty the sum of twenty-five dollars (\$25.00) for each worker employed in the execution of this Contract by Contractor or any Subcontractor for each calendar day during which the worker is required or permitted to work more than eight (8) hours in any one (1) calendar day or more than forty (40) hours per calendar week in violation of Article 3, Division 2, Part 7, Chapter 1 of the California Labor Code.

- c. Employment of Apprentices:

Contractor shall comply with Labor Code §§ 1773.3, 1777.5 and 1777.6, and 3077 et. seq., each of which is incorporated by reference into this Contract. These sections require that contractors and subcontractors employ apprentices in apprenticeable occupations in a ratio of not less than one (1) hour of apprentice work for every five (5) hours of labor performed by a journeyman, unless an exception is granted and that Contractors and Subcontractors shall not discriminate against otherwise qualified employees as apprentices on any public works solely on the ground of actual or perceived race, religion, color, national origin, ethnic group identification, sex, gender, sexual orientation, age, or physical or mental disability. Only apprentices who are in training under written

apprenticeship occupations shall be employed. The responsibility for compliance with these provisions for all apprenticeable occupations rests with Contractor.

- d. The Contractor shall be knowledgeable of and comply with Labor Code §§ 1727, 1773.5, 1775, 1777, 1777.5, 1810, 1813, 1860, including all amendments thereto; each of these sections is incorporated by reference into this Contract.

46. GENERAL RATE OF PER DIEM WAGES

- a. On File:

As required by Labor Code § 1773.2, the District has available copies of the general prevailing rate of per diem wages for workers employed on public work as determined by the Director of the Department of Industrial Relations, which shall be available to any interested party on request. Contractor shall post a copy of the document at each job site.

- b. Prevailing Wage Rate:

The Contractor and each Subcontractor shall pay each worker performing work under this Contract at a rate not less than the prevailing wage as defined in Labor Code § 1771 and 1774 and 8 CCR § 16000(a).

- c. Penalty:

In accordance with Labor Code § 1775, the Contractor shall forfeit to the District as penalty, the sum of not more than two hundred dollars (\$200) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rates, as determined by the Director of the California Department of Industrial Relations, for any work done under this Contract by Contractor or by any Subcontractor. Contractor shall also pay each worker the difference between the stipulated prevailing wages rates and the amount actually paid to such worker.

47. RECORD KEEPING

- a. The Contractor agrees to comply with Labor Code §§ 1776 and 1812. The Contractor and each Subcontractor shall keep or cause to be kept an accurate record showing the names, addresses, social security numbers, work classifications, straight time and overtime hours worked each day and week of all workers employed by Contractor in connection with the execution of this Contract or any subcontract thereunder and showing the actual per diem wages paid to each of such workers. These records shall be certified; shall be submitted electronically at least monthly to the Chief of the Division of Labor Standards Enforcement of the Department of Industrial Relations; and shall be open at all reasonable hours to the inspection of the District awarding the Contract, its officers and agents, and to the Chief of the Division of Labor Standards Enforcement of the Department of Industrial Relations, and his or her other deputies and agents.

- b. In addition, copies of the above records shall be available as follows:
- 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 the District, the Division of Labor Standards Enforcement, and 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 copies thereof made; provided, however, that a request by the public shall be made through either the District, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. If the requested payroll records have not been previously provided, the requesting party shall, prior to being provided the records, reimburse the costs of the Contractor, Subcontractors, and the entity through which the request was made. The public shall not be given access to the records at the principal office of the Contractor.
- c. The Contractor shall file a certified copy of the records with the entity requesting the records within ten days after receipt of a written request. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the District, shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of the Contractor awarded the Contract or performing the Contract shall not be marked or obliterated.
- d. The Contractor shall inform the District of the location of the records, including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.
- e. In the event of noncompliance with the requirements of this section, the Contractor shall have ten days in which to comply subsequent to receipt of written notice specifying in what respects the Contractor must comply with this section. Should noncompliance still be evident after the ten day period, the Contractor shall, as a penalty to the District, forfeit one hundred dollars (\$100) 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.
- f. Responsibility for compliance with this provision shall be with the Contractor.

48. PROJECT COMPLETION

- a. When all of the work to be performed under this Contract has been fully completed, the Contractor shall notify the Architect and District, in writing, setting a date for inspection. The Contractor and Subcontractor representatives shall attend the inspection. As a result of this inspection, the Architect will prepare a list of items (“punch list”) that are incomplete or not installed according to the Contract Documents. Failure to include items on this list does not relieve the Contractor from fulfilling all requirements of the Contract Documents.
- b. The Architect will promptly deliver the punch list to the Contractor and it will include a period of time by which the Contractor shall complete all items listed thereon. On completion of all items on the punch list, verified by a final inspection, and all other Contract requirements, so that Final Completion has been achieved to the District’s satisfaction, the District will file a Notice of Completion with the County Recorder. Payment of retention from the Contract, less any sums withheld pursuant to the terms of this Contract or applicable law, shall not be made sooner than thirty-five (35) calendar days after the date of filing of Notice of Completion.
- c. District reserves the right to occupy buildings and/or portions of the site at any time before Completion, and occupancy shall not constitute final acceptance of any part of the Work covered by the Contract Documents, nor shall such occupancy extend the date specified for completion of the Work. Beneficial occupancy of building(s) does not commence any warranty period or entitle Contractor to any additional compensation due to such occupancy, or affect in any way or amount Contractor’s obligation to pay liquidated damages for failure to complete the Project on time.

49. TRENCHING OR OTHER EXCAVATIONS

- a. Excavations or Trenches Deeper than Four Feet:

If the Project involves digging trenches or other excavations that extend deeper than four feet, the following provisions shall be a part of this Contract:

- 1) The Contractor shall promptly, and before the following conditions are disturbed, provide written notice to the District if the Contractor finds any of the following conditions:
  - (a) Material that the Contractor believes may be a hazardous waste, as defined in §25117 of the Health and Safety Code, which is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing law.
  - (b) Subsurface or latent physical conditions at the site which are different from those indicated or expected.

- (c) Unknown physical conditions at the site of any unusual nature or which are materially different from those ordinarily encountered and generally recognized as inherent in work which the Contractor generally performs.
- 2) In the event that the Contractor notifies the District that Contractor has found any of the conditions specified in subparagraphs (a), (b) or (c), above, the District shall promptly investigate the condition(s). If the District finds that the conditions are materially different or that a hazardous waste is present at the site which will affect the Contractor's cost of, or the time required for, performance of the Contract, the District shall issue a change order in accordance with the procedures set forth in this Contract.
- 3) In the event that a dispute arises between the District and the Contractor regarding any of the matters specified in Paragraph (2), above, the Contractor shall proceed with all work to be performed under the Contract and the Contractor shall not be excused from completing the Project as provided in the Contract. In performing the work pursuant to this Paragraph, the Contractor retains all rights provided by Article 50 which pertains to the resolution of disputes between the contracting parties.

b. Regional Notification Center:

The Contractor, except in an emergency, shall contact the appropriate regional notification center at least two (2) days prior to commencing any excavation if the excavation will be conducted in an area that 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. No excavation shall be commenced and/or carried out by the Contractor unless an inquiry identification number has been assigned to the Contractor or any Subcontractor and the Contractor has given the District the identification number. Any damages or delays arising from Contractor's failure to make appropriate notification shall be at the sole risk and expense of the Contractor and shall not be considered for an extension of the Contract time.

c. Existing Utility Lines:

- 1) Pursuant to Government Code §4215, the District assumes the responsibility for removal, relocation, and protection of main or trunk utility lines and facilities located on the construction site at the time of commencement of construction under this Contract with respect to any such utility facilities that are not identified in the plans and Specifications. Contractor shall not be assessed liquidated damages for delay in completion of the Project caused by the failure of the District or the owner of a utility to provide for removal or relocation of such utility facilities.

- 2) Locations of existing utilities provided by the District shall not be considered exact, but approximate within reasonable margin and shall not relieve Contractor of responsibilities to exercise reasonable care nor costs of repair due to Contractor's failure to do so. The District shall compensate Contractor for the costs of locating and repairing damage not due to the failure of Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the plans and Specifications with reasonable accuracy.
- 3) No provision herein shall be construed to preclude assessment against Contractor for any other delays in completion of the Project. Nothing in this section shall be deemed to require the District to indicate the presence of existing service laterals, appurtenances, or other utility lines, with the exception of main or trunklines, whenever the presence of such utilities on the site of the construction Project can be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes, on or adjacent to the site of the construction.
- 4) If Contractor, while performing work under this Contract, discovers utility facilities not identified by the District in the Project plans and Specifications, Contractor shall immediately notify the District and the utility in writing. The cost of repair for damage to above-mentioned visible facilities without prior written notification to the District shall be borne by the Contractor.

d. Prompt Notification:

Contractor understands, acknowledges and agrees that the purpose for prompt notification to the District pursuant to these provisions is to allow the District to investigate the condition(s) so that the District shall have the opportunity to decide how the District desires to proceed as a result of the conditions. Accordingly, failure of Contractor to promptly notify the District in writing, pursuant to these provisions, shall constitute Contractor's waiver of any claim for damages incurred as a result of the conditions.

e. Trenches Five Feet and Deeper:

Pursuant to Labor Code §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, promptly submit to the District and/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.

50. RESOLUTION OF CONSTRUCTION CLAIMS

- a. Notwithstanding any other language in the Contract Documents, claims between the District and the Contractor shall first be resolved using the procedures set forth at Public Contract Code § 9204. "Claims" are defined for this Article, pursuant to Public Contract

Code § 9204, as a separate demand by the Contractor for one of the following: a time extension for relief from penalties for delay; payment of money or damages arising from work done; or payment of an amount disputed by the District.

- b. Upon receiving a claim sent by registered or certified mail, the District must review and provide a written response within forty-five (45) days that identifies the disputed and undisputed portions of the claim. The forty-five (45) day period to respond may be extended by mutual agreement. The claim is deemed rejected in its entirety if the District does not issue a response. Any payment due on an undisputed portion of the claim must be processed within sixty (60) days after the District's response. If a claimant disputes the District's response or lack thereof, the claimant may demand to meet and confer for settlement of the issues in dispute. Any portion of a claim that remains in dispute after a meet and confer conference will be subject to nonbinding mediation process, as described in Public Contract Code § 9204. Undisputed and unpaid claims accrue interest at 7% per annum. A subcontractor or lower tier subcontractor may make a claim to the District through the Contractor, as specified in Public Contract Code § 9204. However, the procedures in this section shall not supersede the requirements of the Contract Documents with respect to the Contractor's notification to the District of such claim or extend the time for the giving of such notice as provided in the Contract Documents.
- c. Public work claims of \$375,000 or less between the Contractor and the District are subject to the provisions of Article 1.5 (commencing with § 20104) of Chapter 1 of Part 2 of the Public Contract Code ("Article 1.5 claim"). For purposes of this Article, "public work" has the same meaning as set forth in Civil Code §§ 3100 and 3106.
- d. All claims shall be submitted on or before the date of the Final Payment and shall include all documents necessary to substantiate the claim. District shall respond in writing within 45 days of receipt of claim if the claim is less than or equal to \$50,000 ("\$50,000 claim") or within 60 days if the claim is over \$50,000 but less than or equal to \$375,000 ("50,000 - \$375,000 claim"). In either case, District may request in writing within 30 days of receipt of claim any additional documentation supporting the claim or relating to any defenses to the claim which the District may have against the Contractor. Any additional information shall be requested and provided upon mutual agreement of the District and the Contractor. District's written response to the claim shall be submitted to Contractor within 15 days after receipt of the further documentation for \$50,000 claims or within 30 days after receipt of the further documentation for \$50,000 - \$375,000 claims or within a period of time no greater than that taken by the Contractor in producing the additional information, whichever is greater.
- e. Within 15 days of receipt of the District's response, if Contractor disputes the District's written response, or within 15 days of the District's failure to respond within the time prescribed, the Contractor shall provide written notification to District demanding an informal conference to meet and confer to be scheduled by District within 30 days. Following the meet and confer conference, if any claim or portion remains in dispute, the Contractor may file a claim as provided in Government Code § 900 et seq. For purposes



of those provisions, the period of time within which a claim must be filed is tolled from the time the claimant submits a written claim pursuant to this section until the time that claim is denied as a result of the conference process, including any period of time utilized by the meet and confer process.

- f. Pursuant to Public Contract Code § 20104.2(f), this section does not apply to tort claims and does not change the period for filing claims or actions specified by Government Code § 900 et seq.
- g. If a civil action is filed, within 60 days, but no earlier than 30 days, following the filing of responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide that both parties select a disinterested third person mediator within 15 days, shall be commenced within 30 days of the submittal, and shall be concluded within 15 days of the commencement of the mediation unless time is extended upon a good cause showing to the court or by stipulation of the parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.
- h. If the matter remains in dispute, the case shall be submitted to judicial arbitration as set forth in Public Contract Code § 20104.4(b)(1) - (b)(3).
- i. For any claim in excess of \$375,000, the Contractor and the District shall follow the same process as for an Article 1.5 claim. The District will forward a response within 60 days of submittal of any such claim. Judicial arbitration is not required for claims in excess of \$375,000.
- j. In addition, for all unresolved claims that the Contractor wishes to pursue, the Contractor shall file a timely claim pursuant to the Government Claims Act and shall otherwise comply with the procedures set forth in that Act prior to commencing any litigation against the District. The accrual date for any such claim is the date the dispute or controversy first arose regarding the issues raised in the claim.
- k. “The date of Final Payment,” as used in this Article 50, means the date the public entity is required to release retention proceeds in accordance with Public Contract Code § 7107 regardless of whether any payment is made to the Contractor at that time.
- l. The claims required by this Article are jurisdictional and conditions precedent to the commencement of any further legal proceedings. Strict compliance with all filing deadlines is mandatory.

#### 51. DISABLED VETERANS PARTICIPATION GOALS

In accordance with Education Code § 17076.11, this District has a participation goal for disabled veteran business enterprises (“DVBE”) of at least 3 percent (3%) per year of the overall dollar amount of funds allocated to the District by the State Allocation Board pursuant to the Leroy F.

Greene School Facilities Act of 1998 (the “Act”) for construction or modernization and expended each year by the District. If the Project is funded in whole, or in part, by funds allocated to the District pursuant to the Act, prior to, and as a condition precedent for final payment under any contract for such project, the Contractor shall provide appropriate documentation to the District identifying the amount paid to DBVE in conjunction with the Contract, so that the District can assess its success at meeting this goal.

52. RETENTION OF DVBE RECORDS

The Contractor agrees that, for all contracts subject to DVBE participation goals, the State and the District have the right to review, obtain and copy all records pertaining to performance of the contract in accordance with DVBE requirements. The Contractor agrees to provide the State or the District with any relevant information requested and shall permit the State or District access to its premises upon reasonable notice for purposes of interviewing employees and inspecting records. The Contractor agrees to maintain such records for a period of three years after final payment under the Contract.

53. FINGERPRINTING

District Determination of Fingerprinting Requirement Application

The District has considered the totality of the circumstances concerning the Project and has determined that the Contractor and Contractor’s employees (which includes Subcontractor employees):

  X   are subject to the requirements of Education Code § 45125.2 and Paragraph (a) below, is applicable.

       are not subject to the requirements of Education Code § 45125.2, and Paragraph (b) below, is applicable.

- a. Contracts for Construction, Reconstruction, Rehabilitation or Repair of a School Facility Involving More than Limited Contact with Students (§ 45125.2)

By execution of the Contract, the Contractor acknowledges that Contractor is entering into a contract for the construction, reconstruction, rehabilitation, or repair of a school facility where the Contractor and/or Contractor’s employees will have more than limited contact with students and the services to be provided do not constitute an emergency or exceptional situation. In accordance with Education Code § 45125.2 the Contractor shall, at Contractor’s own expense, (1) install a physical barrier to limit contact with students by Contractor and/or Contractor’s employees, and/or (2) provide for the continuous supervision and monitoring of the Contractor and/or Contractor’s employees by an employee of the Contractor who has received fingerprint clearance from the California Department of Justice, and/or (3) provide for the surveillance of the Contractor and Contractor’s employees by a District employee.

- b. Contracts for Construction, Reconstruction, Rehabilitation or Repair of a School Facility Involving Only Limited Contact With Students (§ 45125.2)

By execution of the Contract, the Contractor acknowledges that Contractor is entering into a contract for the construction, reconstruction, rehabilitation or repair of a school facility involving only limited contact with students. Accordingly, the parties agree that the following conditions apply to any work performed by the Contractor and Contractor's employees on a school site: (1) Contractor and Contractor's employees shall check in with the school office each day immediately upon arriving at the school site; (2) Contractor and Contractor's employees shall inform school office staff of their proposed activities and location at the school site; (3) Once at such location, Contractor and Contractor's employees shall not change locations without contacting the school office; (4) Contractor and Contractor's employees shall not use student restroom facilities; and (5) If Contractor and/or Contractor's employees find themselves alone with a student, Contractor and Contractor's employees shall immediately contact the school office and request that a member of the school staff be assigned to the work location.

54. LABOR COMPLIANCE MONITORING

The project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations. In accordance with Labor Code § 1771.1, all bidders, contractors and subcontractors working at the site shall be duly registered with the Department of Industrial Relations at time of bid opening and at all relevant times. Proof of registration shall be provided as to all such contractors prior to the commencement of any work. Contractor shall coordinate with the Architect to ensure the Department of Industrial Relations is advised of the award of the construction contract in a timely manner by filing form PWC-100 with the Department of Industrial Relations after award of the contract.

55. DRUG-FREE WORKPLACE CERTIFICATION

Contractor certifies all of the following:

- 1) Contractor is aware of the provisions and requirements of California Government Code §§ 8350 et seq., the Drug Free Workplace Act of 1990.
- 2) Contractor is authorized to certify, and does certify, that a drug free workplace will be provided by doing all of the following:
  - a) Publishing a statement notifying all employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance is prohibited in Contractor's workplace and specifying actions which will be taken against employees for a violation of the prohibition;
  - b) Establishing a drug-free awareness program to inform employees about all of the following:

- (i) The dangers of drug abuse in the workplace;
  - (ii) Contractor's policy of maintaining a drug-free workplace;
  - (iii) The availability of drug counseling, rehabilitation and employee-assistance programs; and
  - (iv) The penalties that may be imposed upon employees for drug abuse violations;
- c) Requiring that each employee engaged in the performance of Work on the Project be given a copy of the statement required by subdivision (a), above, and that as a condition of employment by Contractor in connection with the Work on the Project, the employee agrees to abide by the terms of the statement.
- 3) Contractor understands that if the District determines that Contractor has either: (a) made a false certification herein, or (b) violated this certification by failing to carry out and to implement the requirements of Government Code §§ 8350 et seq., the Contract is subject to termination, suspension of payments, or both. Contractor further understands that, should Contractor violate the terms of the Drug-Free Workplace Act of 1990, Contractor may be subject to debarment in accordance with the provisions of Government Code §§ 8350, et seq.

56. PROVISIONS REQUIRED BY LAW DEEMED INSERTED

Every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted, and this Contract shall be read and enforced as though it were included, and if through mistake or otherwise any provision is not inserted or is not correctly inserted, upon application of either party the Contract shall be amended to make the insertion or correction. All references to statutes and regulations shall include all amendments, replacements, and enactments on the subject which are in effect as of the date of this Contract.

57. GENERAL PROVISIONS

a. Assignment and Successors:

Neither party may transfer or assign its rights or obligations under the Contract Documents, in part or in whole, without the other party's prior written consent. The Contract Documents are binding on the heirs, successors, and permitted assigns of the parties hereto.

b. Third Party Beneficiaries:

There are no intended third party beneficiaries to the Contract.

c. Choice of Law and Venue:

The Contract Documents shall be governed by California law, and venue shall be in the Superior Court of the county in which the project is located, and no other place.

d. Severability:

If any provision of the Contract Documents is determined to be illegal, invalid, or unenforceable, in part or in whole, the remaining provisions, or portions of the Contract Documents shall remain in full force and effect.

e. Entire Agreement

The Contract Documents constitute the final, complete, and exclusive statement of the terms of the agreement between the parties regarding the subject matter of the Contract Documents and supersedes all prior written or oral understandings or agreements of the parties.

f. Waiver:

No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of the Contract Documents shall be effective unless it is in writing and signed by the party waiving the breach, failure, right, or remedy. No waiver of any breach, failure, right, or remedy shall be deemed a waiver of any other breach, failure, right, or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

g. Headings

The headings in the Contract Documents are included for convenience only and shall neither affect the construction or interpretation of any provision in the Contract Documents nor affect any of the rights or obligations of the parties to the Contract.

--END GENERAL CONDITIONS--

## 7. SPECIAL CONDITIONS

- A. **Time of Performance.** The Contractor shall mobilize and commence work on the Project on the date specified in the Agreement. The Contractor shall complete the project within the period specified in the Agreement and in accordance with the schedule for the Project developed for the District. Contractor acknowledges and agrees that the construction duration stipulated herein is adequate and reasonable for the size and scope of the Project.

Work under this Contract shall be scheduled and coordinated in compliance with the following:

1. The anticipated date of the award of the Contract is April 15, 2020.
2. Contract submittals are due on April 25, 2020.
3. Contractor shall complete work under this Contract as identified in the Specifications.
4. The Contractor acknowledges that it fully understands the Project work to be performed has been scheduled by the District for a specific time period. In addition the Contractor acknowledges that it fully understands that scheduling has been established for this Project in order to promote the best usage of school facilities and to timely provide an appropriate learning environment for students to the fullest extent possible. With these understandings in mind, pursuant to the General Conditions regarding the District's Right to Terminate Contract, it is acknowledged and understood by the Contractor that it is a substantial violation of the Contract for the Contractor to fail to provide all submittals in the time specified and identified. Furthermore, it is acknowledged and understood by the Contractor that it is a substantial violation of the Contract for the Contractor to fail to provide a full work crew or properly skilled workers with proper and sufficient materials and equipment from the first day of Project work scheduled.

If the site will not be available after the scheduled start date, Contractor shall utilize this time period for administrative tasks and initial mobilization and shall coordinate such activities with District.

- B. **Future Work:** All future work awarded from this bid shall be coordinated with the District's Director of Buildings & Grounds or his or her designee and the Contractor. No work shall be started until scheduling has been agreed upon by all parties.
- C. **Liquidated Damages – Contract Submittals:** If the executed Contract and required bonds and certificates of insurance are not received by the District prior to the scheduled start date, the agreed liquidated damages established in the General Conditions is Five Hundred Dollars (\$500.00) per day for each calendar date the start date is delayed.

**Liquidated Damages – Time of Completion:** If work under this Contract is not ready for the intended use within the specified time period, the agreed liquidated damages established in the General Conditions is Five Hundred Dollars (\$500.00) per day for each calendar date completion is delayed.

- D. **Certification Requirements:** The Contractor or subcontractor must be certified by the factory or manufacturer to install any equipment or other products that may require a certification. Such certifications must be obtained prior to submittal of the bid.
  
- E. **Time of Work Restrictions:** The worksite will be available Monday through Saturday, from 7 AM to 5 PM. This schedule is subject to change as the needs of the District require, and would be scheduled with the District's Director of Buildings & Grounds or his or her designee.
  
- F. **Project Schedule:**

Anticipated Start Date: **June 8, 2020**

Completion Date: **July 31, 2020**

## **8. SPECIFICATIONS**

Pinacate Middle School Shade Structure Project (Please see additional PDF File)

Project Manual: Pinacate Middle School Shade Structure Project- Perris Union High School District  
(Please see additional PDF File)



## SUBSTITUTION REQUEST FORM

Pursuant to Public Contract Code Section 3400, bidder hereby requests substitution of the following articles, devices, equipment, products, materials, fixtures, patented processes, forms, methods, or types of construction:

<u>Specified Items</u>	<u>Requested Substituted Items</u>	<u>Agree to Provide Specified Item In the Event Request is Denied<sup>1</sup> (circle one)</u>	<u>District Decision on substitution Request (circle one)</u>
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

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<sup>1</sup> Bidder must state whether bidder will provide the Specified Item in the event that District denies the request for substitution. If bidder states that bidder will not provide the Specified Item in the event their request for substitution is denied, bidder's bid may be considered nonresponsive. 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 such Specified Item(s) and if bidder fails to execute the Agreement with the Specified Item(s), bidder's bond may be forfeited.

**9. PROJECT FORMS**

**NOTICE OF INTENT TO AWARD**

To:

Project Description: Pinacate Middle School Shade Structure Project

The District has considered the bid submitted by you for the above described work in response to its Notice to Bidders for the Project.

You are hereby notified that the District intends to accept your bid in the amount of: (\$ \_\_\_\_\_ ).

You are requested to execute the Contract and furnish the required Performance Bond and Payment Bond using the bond forms provided in the Contract Documents and the required certificates of insurance within ten (10) business days from the date of issuance of this Notice.

If you fail to execute the Contract and to furnish the bonds and insurance within ten (10) business days from the date of issuance of this Notice, the District may consider all your rights arising out of its acceptance of your bid as abandoned and your Bid Bond forfeited. The District will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this Notice of Award to the District.

Dated: April 15, 2020.

By \_\_\_\_\_  
Authorized District Signature

Receipt of this above Notice of Intent to Award is hereby acknowledged by:

\_\_\_\_\_, this is the \_\_\_\_\_

day of \_\_\_\_\_, 2020.

By \_\_\_\_\_

Title \_\_\_\_\_

**NOTICE TO PROCEED**

To:

Date:

PROJECT: Pinacate Middle School Shade Structure Project .

You are hereby notified to commence work in accordance with the Contract dated \_\_\_\_\_, 2020, on June 8, 2020, and you shall complete the work on July 31, 2020.

By: \_\_\_\_\_  
Authorized District Signature

**CONTRACTOR'S CERTIFICATE REGARDING  
DRUG-FREE WORKPLACE**

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:

- a) 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;
- b) Establishing a drug-free awareness program to inform employees about all of the following:
  - 1) The dangers of drug abuse in the workplace;
  - 2) The person's or organization's policy of maintaining a drug-free workplace;
  - 3) The availability of drug counseling, rehabilitation and employee-assistance programs; and
  - 4) The penalties that may be imposed upon employees for drug abuse violations;
- c) 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 contract 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 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: \_\_\_\_\_

\_\_\_\_\_  
Contractor  
By: \_\_\_\_\_  
Signature

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

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, at any time, on 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.

DATE: \_\_\_\_\_

\_\_\_\_\_  
CONTRACTOR

By: \_\_\_\_\_  
Signature

**CONTRACTOR'S CERTIFICATE REGARDING  
PARTICIPATION OF  
DISABLED VETERAN BUSINESS ENTERPRISES**

In accordance with Education Code Section 17076.11, the District has a participation goal for Disabled Veteran Business Enterprises of at least three percent (3%) per year of the overall dollar amount of funds allocated by the District by the State Allocation Board pursuant to the Leroy F. Greene School Facilities Act of 1998 for construction or modernization of school buildings and expended each year by the District. If the Project is funded in whole, or in part, by funds allocated to the District pursuant to the Act, at the time of execution of the contract, the Contractor will provide a statement to the District of anticipated participation of Disabled Veteran Business Enterprises in the contract. Prior to, and as a condition precedent for final payment under the contract, the Contractor will provide appropriate documentation to the District identifying the amount paid to Disabled Veteran Business Enterprises pursuant to the contract, so that the District can assess its success at meeting this goal.

I certify that I have read the above and will comply with the anticipated participation of Disabled Veteran Business Enterprises in this contract.

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Signature

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Typed or Printed Name

---

Title

---

Company

---

Email

**RECYCLED CONTENT CERTIFICATION**

The undersigned declares that he or she is the person who executed the bid for Bid # \_\_\_\_\_ (“Project”), and submitted it to the District on behalf of \_\_\_\_\_ (“Contractor”).

Pursuant to Public Contract Code Section 10308.5, all contractors are required to certify in writing under penalty of perjury the minimum (if not exact) percentage of recycled content in materials, goods, or supplies offered or products used in the performance of their contract, regardless of whether the product meets the required recycled product percentage as defined in Sections 12161 and 12200. The recycled content shall include both post-consumer material and secondary material as defined in Public Contract Code Sections 12161 and 12200 shall apply.

I declare under penalty of perjury under the laws of the State of California that the following percentages of Postconsumer Material and Secondary Material is in the materials, goods or supplies offered for, or products used in, the performance of the Contract for the Project:

\_\_\_\_\_ % Postconsumer Material                      \_\_\_\_\_ % Secondary Material.

Executed on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ at \_\_\_\_\_

\_\_\_\_\_.

\_\_\_\_\_  
Name of Contractor (Print or Type)

By \_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

**ASBESTOS-FREE MATERIALS CERTIFICATION**

The undersigned declares that he or she is the person who executed the bid for Bid # \_\_\_\_\_ (“Project”), and submitted it to the District on behalf of \_\_\_\_\_ (“Contractor”).

To the best of my knowledge, information and belief, in completing the Contractor’s Work for the Project, no material furnished, installed or incorporated into the Project will contain, or in itself be composed of, any materials listed by the federal or state EPA or federal or state health agencies as a hazardous material.

Any disputes involving the question of whether or not material installed with asbestos-containing equipment is settled by electron microscopy; the cost of any such tests shall be paid by the Contractor.

All work or materials installed by the Contractor which is found to contain asbestos, or work or material installed with asbestos-containing equipment, will be immediately rejected and this work shall be removed and replaced by the Contractor 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 Construction Manager/Architect or the District who shall have sole discretion and final determination in this matter.

The work will be not accepted until asbestos contamination is reduced to levels deemed acceptable by the Asbestos Consultant.

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

Executed on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Name of Contractor (Print or Type)

By \_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title



## IRAN CONTRACTING ACT CERTIFICATION

As required by California Public Contract Code Section 2204, the Bidder certifies subject to penalty for perjury that the option checked below relating to the Bidder's status in regard to the Iran Contracting Act of 2010 (Public Contract Code Section 2200 *et seq.*) is true and correct:

- The Bidder is not:
  - (i) identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code Section 2203; or
  - (ii) a financial institution that extends, for 45 days or more, credit in the amount of \$20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code Section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.
  
- The District has exempted the Contractor from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, Agency will be unable to obtain the goods and/or services to be provided pursuant to the Contract.
  
- The amount of the Contract payable to the Contractor for the Project does not exceed \$1,000,000.

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

\_\_\_\_\_  
Signature Date

\_\_\_\_\_  
Name Title

\_\_\_\_\_  
Name of Firm

# FINGERPRINTING/CRIMINAL BACKGROUND INVESTIGATION CERTIFICATION

The undersigned does hereby certify to the governing board of the District that (1) he/she is a representative of the Contractor, (2) he/she is familiar with the facts herein certified, (3) he/she is authorized and qualified to execute this certificate on behalf of Contractor; and (4) that the following is true and correct:

**1. Education Code.** Contractor has taken at least one of the following actions with respect to the Project (check all that apply):

\_\_\_\_\_ The Contractor has complied with the fingerprinting requirements of Education Code section 45125.1 with respect to all Contractor's employees and all of its subcontractors' employees who may have contact with District pupils in the course of providing services pursuant to the Contract, and the California Department of Justice has determined that none of those employees has been convicted of a felony, as that term is defined in Education Code section 45122.1. A complete and accurate list of Contractor's employees and of all of its subcontractors' employees who may come in contact with District pupils during the course and scope of the Contract is attached hereto; and/or

\_\_\_\_\_ Pursuant to Education Code section 45125.2, Contractor has installed or will install, prior to commencement of work , a physical barrier at the Project site, that will limit contact between Contractor's employees and District pupils at all times; and/or

\_\_\_\_\_ Pursuant to Education Code section 45125.2, Contractor certifies that all employees will be under the continual supervision of, and monitored by, an employee of the Contractor who the California Department of Justice has ascertained has not been convicted of a violent or serious felony. The name and title of the employee who will be supervising Contractor's employees and its subcontractors' employees is:

**Name:**

**Title:**

\_\_\_\_\_ The Work on the Contract is at an unoccupied school site and no employee and/or subcontractor or supplier of any tier of Contract shall come in contact with the District pupils.

**2. Megan's Law (Sex Offenders).** I have verified and will continue to verify that the employees of Contractor that will be on the Project site and the employees of the Subcontractor(s) that will be on the Project site are **not** listed on California's "Megan's Law" Website (<http://www.meganslaw.ca.gov/>).

Contractor's responsibility for background clearance extends to all of its employees, subcontractors, and employees of subcontractors coming into contact with District pupils regardless of whether they are designated as employees or acting as independent contractors of the Contractor.

On behalf of Contractor:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name

## CONTRACTOR'S CERTIFICATE REGARDING WORKERS' COMPENSATION 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.

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(Signature)

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(Print)

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(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.

**ESCROW AGREEMENT FOR SECURITY DEPOSITS  
IN LIEU OF RETENTION**

This Escrow Agreement is made and entered into by and between the **Perris Union High School District**, hereinafter called "OWNER", and \_\_\_\_\_, hereinafter called "CONTRACTOR", and \_\_\_\_\_, 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 in the amount \_\_\_\_\_ (\$\_\_\_\_\_ ) pursuant to the Construction Contract entered into between the OWNER and CONTRACTOR for \_\_\_\_\_ **Project** 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 \_\_\_\_\_ as the 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 default, 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:

On behalf of Agent:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

[contractor signatures continue on the following page]

On behalf of Contractor:

\_\_\_\_\_  
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

628-5/4468687.1

628-5/4495714.1

# PROJECT MANUAL

PINACATE MIDDLE SCHOOL  
SHADE STRUCTURE  
A04-119066

PERRIS UNION HIGH SCHOOL DISTRICT

**pjhm**  
architects



State of California • Gavin Newsom, Governor

California Government Operations Agency

**DEPARTMENT OF GENERAL SERVICES**

**Division of the State Architect -**

---

**Project:**

**Total Scope of Project:**

**Increment #:**

**Application #:**

**File #:**

Drawings and specifications for the subject project have been examined and stamped by the Division of the State Architect (DSA) for identification on \_\_\_\_\_. This letter constitutes the “written approval of the plans as to the safety of design and construction” required before letting any contract for construction, and applies to the work shown on these drawings and specifications. The date of this letter is the DSA approval date.

Approval is limited to the particular location shown on the drawings and is conditioned on construction starting within one year from the stamped date. The inspector must be approved and the contract information, including the construction start date, must be given to DSA prior to start of construction.

DSA does not review drawings and specifications for compliance with Parts 3 (California Electrical Code), 4 (California Mechanical Code), and 5 (California Plumbing Code) of Title 24. It is the responsibility of the professional consultants named on the application to verify this compliance.

Please refer only to the boxes checked below which indicate applicable conditions specific to this project.

Buildings constructed in accordance with approved drawings and specifications will meet minimum required standard given in Title 24, California Code of Regulations, for structural safety.

Buildings or site improvements constructed in accordance with approved drawings and specifications will meet minimum required standard given in Title 24, California Code of Regulations, for fire and life safety.

This constitutes the written approval certifying that the drawings and specifications are in compliance with state regulations for the accommodation of the disabled which are required before letting any contract for construction. (See Section 4454, Government Code.)

Due to the nature of the building(s), certain precautions considered necessary to assure long service have not been required. In the condition as built, the building(s) will meet minimum required standards for structural, and fire and life safety. The owner must observe and correct deterioration in the building in order to maintain it in a safe condition.



**Application #:**

**File #:**

Your attention is drawn to the fact that this application was submitted under the provisions of Sections 39140/81130 of the Education Code which permit repairs or replacement of a fire damaged building to be made in accordance with the drawings and specifications previously approved by this office. The drawings and specifications approved for the reconstruction of this building conform to the drawings and specifications approved under application # \_\_\_\_\_ .

Due to the nature of the poles, certain precautions considered necessary to assure long service have not been insisted upon. In their condition as built, they will meet minimum required safety standards; however, your attention is directed to the comparatively short life of wood poles. It will be the responsibility of the owner to maintain them in a safe condition.

Bleachers or grandstands constructed in accordance with approved drawings and specifications will meet minimum required standards for structural, and fire and life safety. The owner should provide for and require periodic safety inspections throughout the period of use to ensure framing and other parts have not been damaged or removed. On bleachers or grandstands having bolts, locking or safety devices, the owner should require that all such components be properly tightened or locked prior to each use.

The building(s) was designed to support a snow load of \_\_\_\_\_ pounds per square foot of roof area. Snow removal must be considered if the amount of snow exceeds that for which the building(s) was designed.

Deferred Approval(s) Items:

This project has been classified as \_\_\_\_\_ . An Inspector who is certified by DSA to inspect this class of project must be approved by DSA prior to start of construction.

Please refer to the above application number in all correspondence, reports, etc., in connection with this project.

Sincerely,

for Ida A. Clair, AIA  
Acting State Architect

cc:  
Architect

# PINACATE MIDDLE SCHOOL SHADE STRUCTURE

## PERRIS UNION HIGH SCHOOL DISTRICT

DIVISION OF THE STATE ARCHITECTS PROJECT NO.: 04-119066  
OFFICE OF PUBLIC SCHOOLS PROJECT TRACKING NO: 67207-76  
ARCHITECTS PROJECT NUMBER: PUHSD 19.06

### PROJECT NAME

#### PERRIS UNION HIGH SCHOOL DISTRICT

155 EAST 4TH STREET  
PERRIS, CA 92570  
(T) 951.943.6369

SUPERINTENDENT

**GRANT BENNETT**

BOARD OF TRUSTEES

**ANTHONY T. STAFFORD, SR., PRESIDENT**

**DR. JOSE LUIS ARAUX, VICE PRESIDENT**

**EDWARD D. GARCIA, JR., CLERK**

**DR. RANDALL FREEMAN, MEMBER**

**DAVID G. NELISSEN, MEMBER**

#### OWNER/BOARD OF TRUSTEES

SHADE STRUCTURE

#### DAVE BANG ASSOCIATES, INC. OF CALIFORNIA

1885 NORTH MAIN STREET, ORANGE, CA 92865  
(T) 800.669.2585, brittany@davebang.com

#### PJHM ARCHITECTS, INC.

IN ORANGE COUNTY  
24461 RIDGE ROUTE DRIVE #110, LAGUNA HILLS, CA 92653  
949.496.6191, tomk@pjhm.com

IN SAN DIEGO COUNTY  
804 PIER VIEW WAY #103, OCEANSIDE, CA 92054  
760.730.5527

IN LOS ANGELES COUNTY  
837 TRACTION AVENUE #410, LOS ANGELES, CA 90013  
949.496.6191

#### ARCHITECT

CIVIL ENGINEERING

#### SLR ENGINEERING, INC.

6840 INDIANA AVE. SUITE 130, RIVERSIDE, CA 92506  
(T) 951.683.8088, steve@slr-ce.com

ELECTRICAL ENGINEERING

#### TK1SC COLLABORATIVE

15231 LAGUNA CANYON ROAD #100, IRVINE, CA 92618  
(T) 949.751.5800, bvoller@tk1sc.com

OWNER'S CONSULTANTS

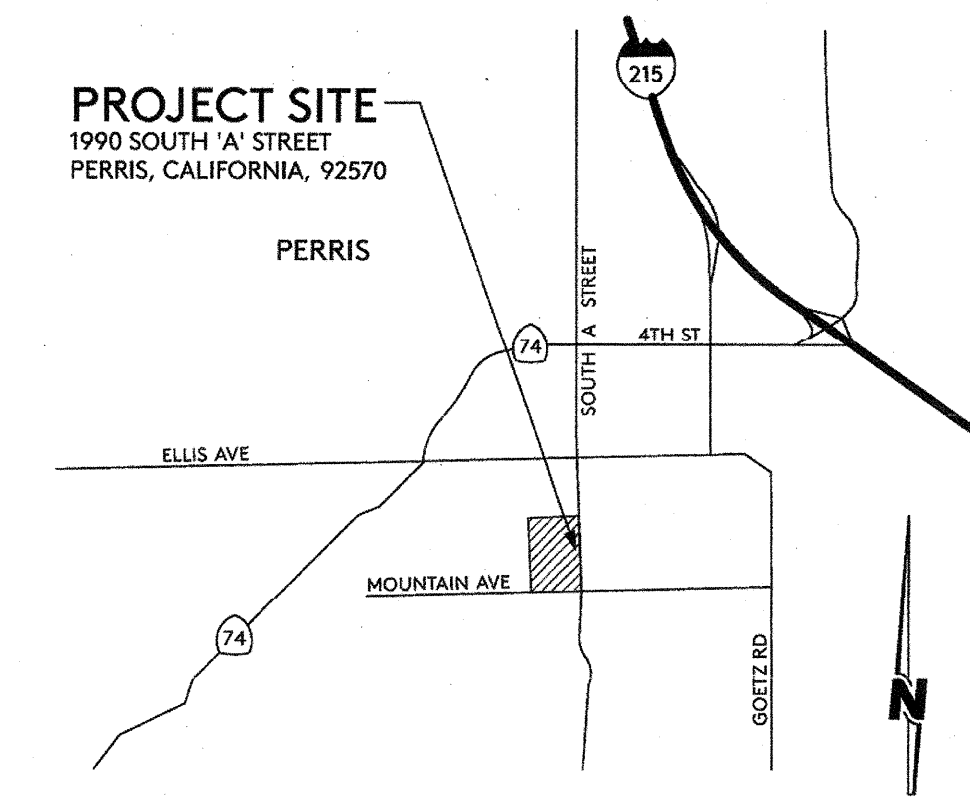
ARCHITECTS CONSULTANTS

- ALL WORK SHOULD CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.)
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24. CCR. A DSA-CERTIFIED CLASS PROJECT INSPECTOR IS REQUIRED FOR THE PROJECT
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. TESTING LAB MUST HAVE DSA LABORATORY EVALUATION AND ACCEPTANCE PROGRAM ACCEPTANCE.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE ARCHITECT OR ENGINEER MAY FIND DEFECTS IN THE WORK, AND IF THEY DO, THEY WILL NOTIFY THE CONTRACTOR SO THE ERROR MAY BE CORRECTED. UNDER NO CIRCUMSTANCES IS IT EVER THE INTENT FOR THE ARCHITECT OR ENGINEER TO BECOME A GUARANTOR OF THE CONTRACTOR'S PERFORMANCE BY THESE ACTIVITIES. THE FACT THAT A CONTRACTOR'S ERROR GOES UNDETECTED DURING THE VISIT TO THE SITE DOES NOT MAKE THE ARCHITECT OR ENGINEER NEGLIGENT: THE CONTRACTOR IS NEVER RELIEVED OF THE RESPONSIBILITY FOR THE DISCOVERY OF HIS OWN ERRORS AND THE CORRECTION OF THEM, NOR OF THE RESPONSIBILITY OF PROPERLY PERFORMING THE WORK.
- THE ARCHITECT OR ENGINEER WILL MAKE VISITS TO THE JOB SITE TO OBSERVE THE PROGRESS OF THE WORK AND TO OBSERVE WHETHER OR NOT IT IS, IN GENERAL, BEING PERFORMED IN ACCORDANCE WITH THEIR PLANS AND SPECIFICATIONS. THIS DOES NOT IN ANY WAY MEAN THAT THE ARCHITECT OR ENGINEER IS A GUARANTOR OF THE CONTRACTOR'S WORK. RESPONSIBILITY FOR SAFETY IN, ON OR ABOUT THE JOB SITE: IN CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, FORMS, OR OTHER WORK AIDS: OR SUPERINTENDING THE WORK.
- FOR ALL WALL MOUNTED AND SEMI-RECESSED MOUNTED EQUIPMENT, ACCESSORIES CABINETS, HANDRAILS, MARKER BOARDS, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT AND ETC. PROVIDE AND INSTALL BACKING IN ACCORDANCE TO STRUCTURAL DETAILS.
- FIRE SAFETY DURING DEMOLITION & CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
- NOT FOR STORAGE OR USE OF FLAMMABLE, COMBUSTIBLE, OR HAZARDOUS MATERIALS.
- DO NOT SCALE DRAWINGS. WORK TO THE DIMENSIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY THE DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT CLARIFICATION.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWING ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS OF THE UTILITIES WITH SCHOOL DISTRICT MAINTENANCE AND OPERATION PERSONNEL. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SCHOOL DISTRICT'S SATISFACTION.
- PROVIDE CONSTRUCTION BARRICADES AS REQUIRED TO PROTECT PUBLIC'S HEALTH AND SAFETY INCLUDING WORK UNDER CONSTRUCTION TO THE REQUIREMENTS OF THE SCHOOL DISTRICT. COVER OPEN TRENCHES WITH SOLID MATERIAL.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SATISFACTION OF THE OWNER/ARCHITECT, AT CONTRACTOR'S EXPENSE.
- BIDDERS ARE REQUIRED TO LOOK AT ALL DRAWINGS AND SPECIFICATIONS. NOT JUST THOSE SHEETS OR SECTIONS RESPECTIVE OF THEIR TRADE.
- UNLESS SPECIFIED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING, WELDING, ETC. SHALL HAVE WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD PRIOR TO START OF WORK.
- ALL DETAILS CONTAINED IN THESE CONSTRUCTION DOCUMENTS ARE PART OF THE CONSTRUCTION SCOPE REGARDLESS OF THEM BEING REFERENCED IN THE SET.

GENERAL NOTES

- |          |   |
|----------|---|
| 2019     | CALIFORNIA ADMINISTRATIVE CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1  |
| 2019     | CALIFORNIA BUILDING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 BASED ON 2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS |
| 2019     | CALIFORNIA ELECTRICAL CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3 BASED ON 2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS              |
| 2019     | CALIFORNIA MECHANICAL CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4 BASED ON 2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS         |
| 2019     | CALIFORNIA PLUMBING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5 BASED ON 2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS             |
| 2019     | CALIFORNIA ENERGY CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6  |
| 2019     | CALIFORNIA FIRE CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9 BASED ON 2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS                     |
| 2019     | CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11   |
| 2019     | CALIFORNIA REFERENCED STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12 TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS                 |
| 2016     | ASME A17.1/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS  |
| 2016     | NFPA 13 - STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS, CALIFORNIA AMENDED   |
| 2016     | NFPA 14 - STANDARDS FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS  |
| 2017     | NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS   |
| 2017     | NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS  |
| 2016     | NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION   |
| 2016     | NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES   |
| 2016     | NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE, CALIFORNIA AMENDED  |
| 2016     | NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES   |
| 2018     | NFPA 221 - STANDARD FOR HIGH CHALLENGE FIRE WALLS, FIRE WALLS, AND FIRE BARRIER WALLS   |
| 2015     | NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, INCLUDING ACCESSORIES   |
| 2005/R10 | UL300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT  |
| 2003     | UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES  |
| 1999     | UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS  |
| 2002     | UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED   |
| 2017     | ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS  |
- FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS, REFER TO 2019 C.B.C. (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE, CHAPTER 80
- SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS



### VICINITY MAP

THIS CONSTRUCTION DOCUMENT PACKAGE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING SCOPE:

- GENERAL ALTERATION TO:
  - (E) SITE WORK, UTILITIES
- ADDITION TO:
  - (E) 30'x54' SHADE STRUCTURE (A#04-11450) WITH (N) 30'x54' SHADE STRUCTURE (PC#02-115731)

### BRIEF PROJECT SCOPE

CIVIL  
C-1.0 SITE DEMOLITION AND GRADING PLAN

ARCHITECTURAL  
A-0.1 SITE PLAN - LOCAL FIRE AUTHORITY ACCESS  
A-0.2 BUILDING ANALYSIS  
A-1.0 SITE PLAN  
A-1.1 SITE PLAN - ENLARGED

ELECTRICAL  
E-0.1 SYMBOLS LIST  
E-1.0 ELECTRICAL SITE PLAN  
E-2.1 ENLARGED LIGHTING PLAN  
E-3.1 PANEL SCHEDULES  
E-4.1 LIGHTING FIXTURE SCHEDULE  
E-4.2 TITLE 24  
E-5.1 DETAILS  
E-6.1 ELECTRICAL SPECIFICATIONS  
E-6.2 ELECTRICAL SPECIFICATIONS

### STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. 04-File No. 33-H8)

THE DRAWINGS OR SHEETS LISTED BELOW:

PC SHADE STRUCTURE  
G.1 AMERICANA SHELTERS DESIGN NOTES, EXAMPLE FORM DSA 103  
MT30.0 30' MERAMEC SHELTER DESIGN NOTES, EXAMPLE FORM DSA 103  
MT30.1 30' MERAMEC SHELTER PLANS, SECTIONS AND DETAILS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE 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. (Title 24, Part 1, Section 4-317 [b])

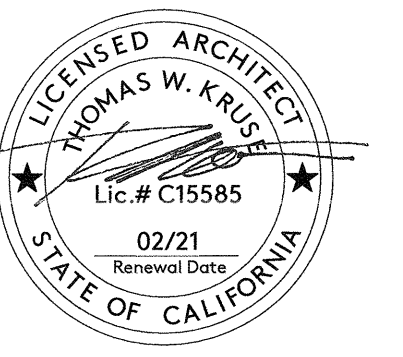
I FIND THAT:  ALL DRAWINGS OR SHEETS LISTED ABOVE  
 IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT &  
 HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: \_\_\_\_\_ DATE: 01/29/2020

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

SCHEDULE OF DRAWINGS

**pjhm**  
architects

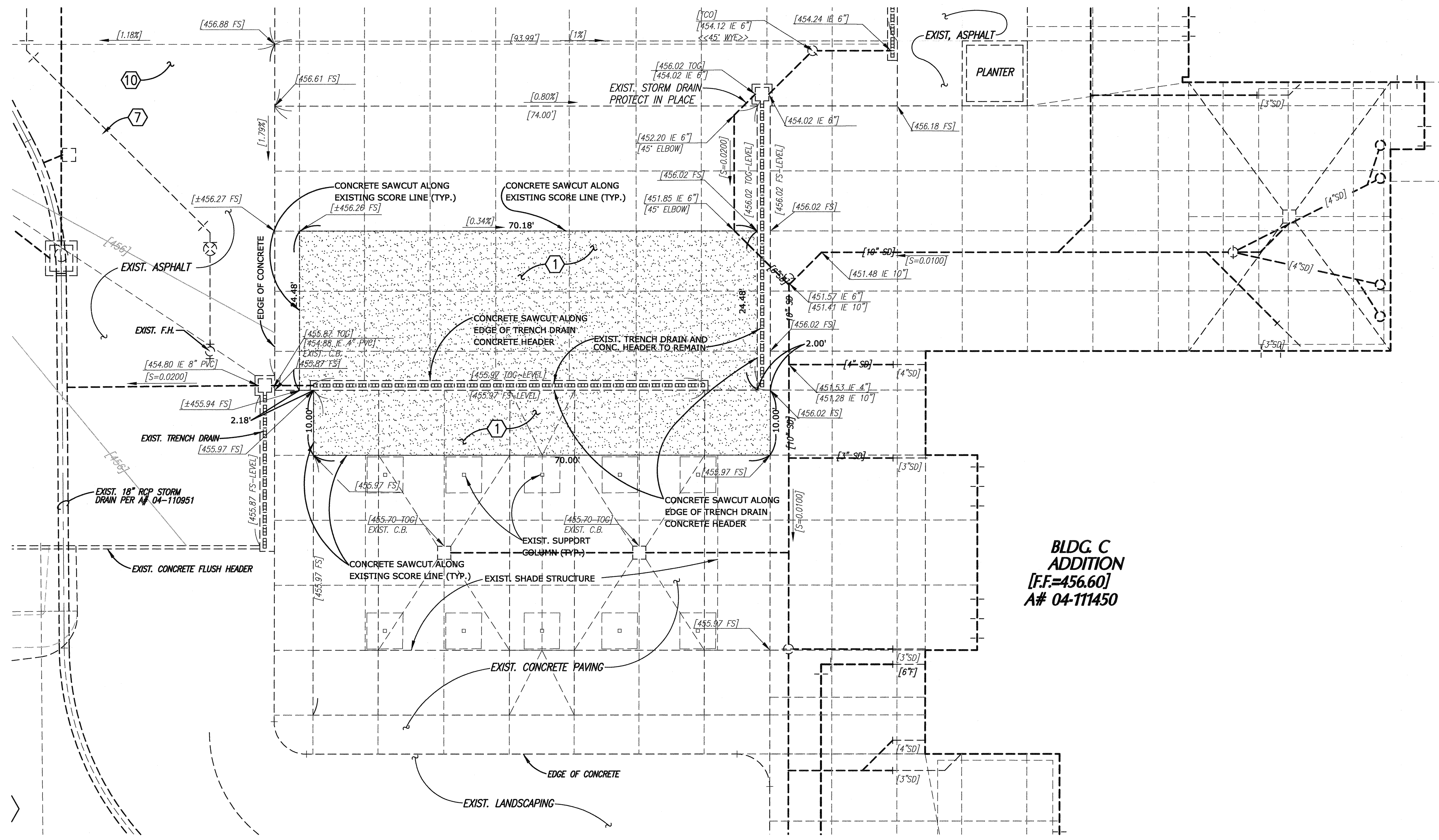


IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
04 119 006  
ACS: PLS: M.S.S.C.S.C.  
DATE: JAN 30 2020  
ACS: P. CRCE  
PES: M. DA  
SS: C. Christakos

PINACATE MIDDLE SCHOOL SHADE  
STRUCTURE

COVER SHEET

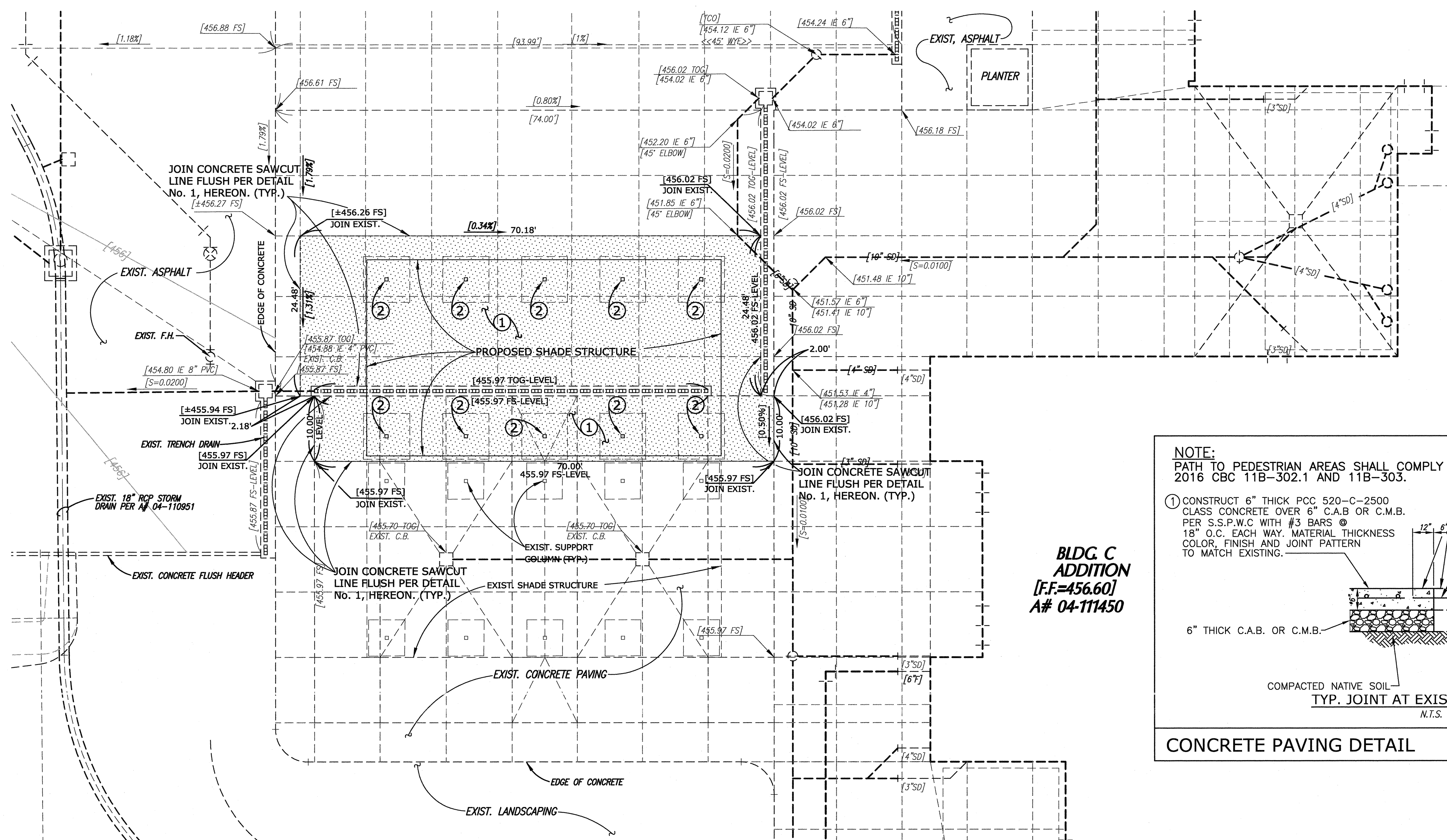
CS



**DEMOLITION NOTES**

1 SAWCUT, DEMOLISH AND REMOVE EXISTING CONCRETE PAVING.

SITE DEMOLITION PLAN



**CONSTRUCTION NOTES**

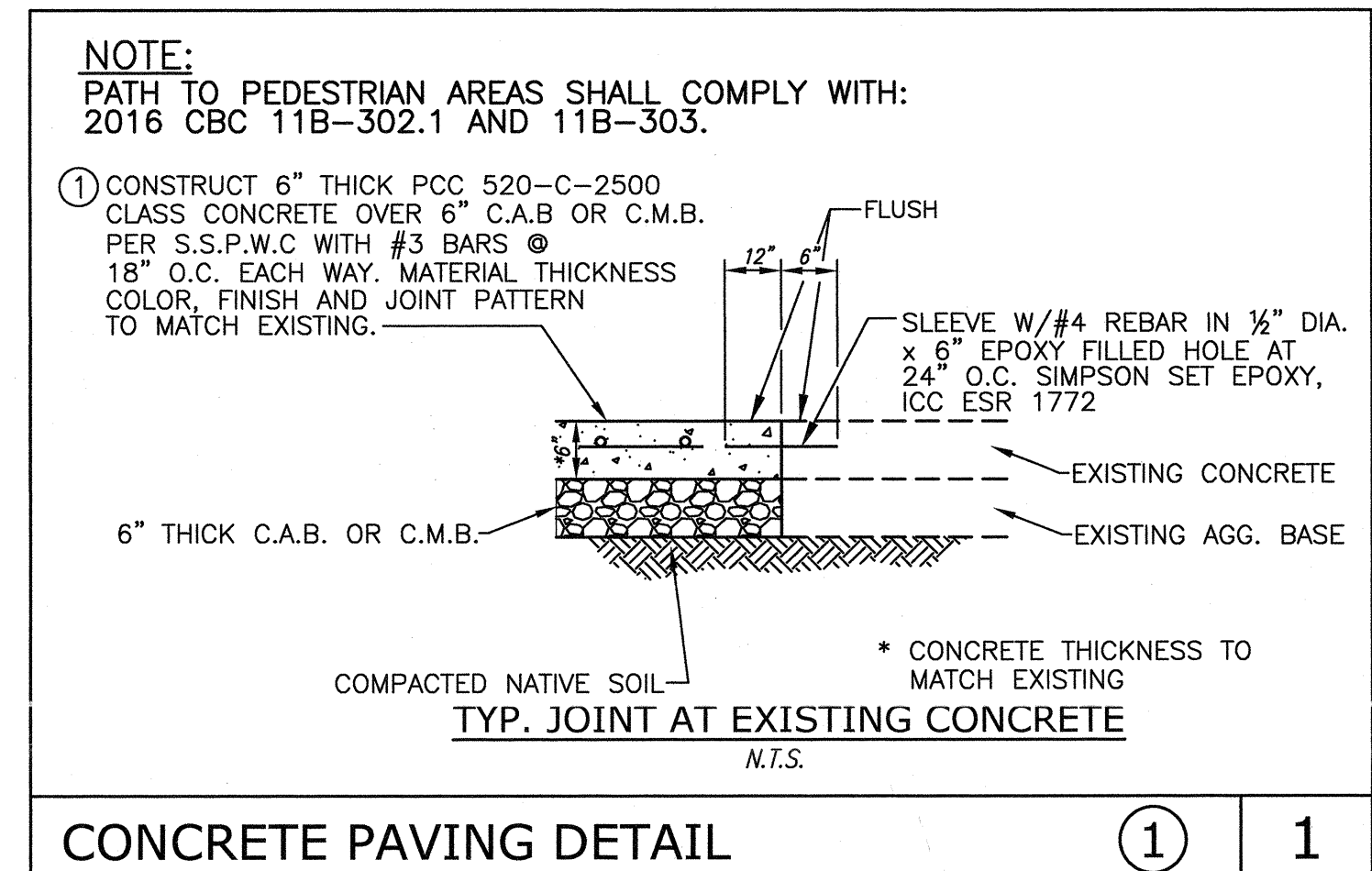
1 CONSTRUCT CONCRETE PAVING, PER DETAIL No. 1, HEREON, MATCH MATERIAL THICKNESS, FINISH, COLORING AND JOINT PATTERN TO EXISTING CONCRETE SURFACE.

2 INSTALL SUPPORT COLUMN AND FOOTING PER ARCHITECTURAL AND SHADE STRUCTURE DRAWINGS.

**LEGEND**

[450.00 FS] INDICATES ELEVATION PER PINACATE MIDDLE SCHOOL MODERNIZATION PROJECT A#04-111163, MODULAR CLASSROOM RELOCATION A#04-110951, MODERNIZATION PHASE 2, A#04-111450, PRE-PHASE III PROJECT A#04-112950, OR PHASE 3 BUILDING D PER A# 04-113029.

C.A.B. CRUSHED AGGREGATE BASE.  
 C.M.B. CRUSHED MISCELLANEOUS BASE.  
 S.S.P.W.C. STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.



SITE GRADING PLAN

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 04 119 006  
 ACS FL 11/13/13  
 DATE JAN 2 0 2013

**pjhm** architects

REGISTERED ARCHITECT  
 JAMES W. KERR  
 NO. 016585  
 REN. 2/21  
 STATE OF CALIFORNIA

SLR  
 Civil Engineering, Inc.  
 6840 INDIANA AVENUE, SUITE 130  
 RIVERSIDE, CA 92506  
 (951) 683-8088 FAX (951) 683-8915

REGISTERED PROFESSIONAL ENGINEER  
 JOHN R. HAYES  
 NO. 016585  
 REN. 2/21  
 STATE OF CALIFORNIA

San Diego Office: Address: 804 Pier View Way #103, Oceanside, CA 92054  
 Phone: 760.730.5827, Fax: 760.730.5827

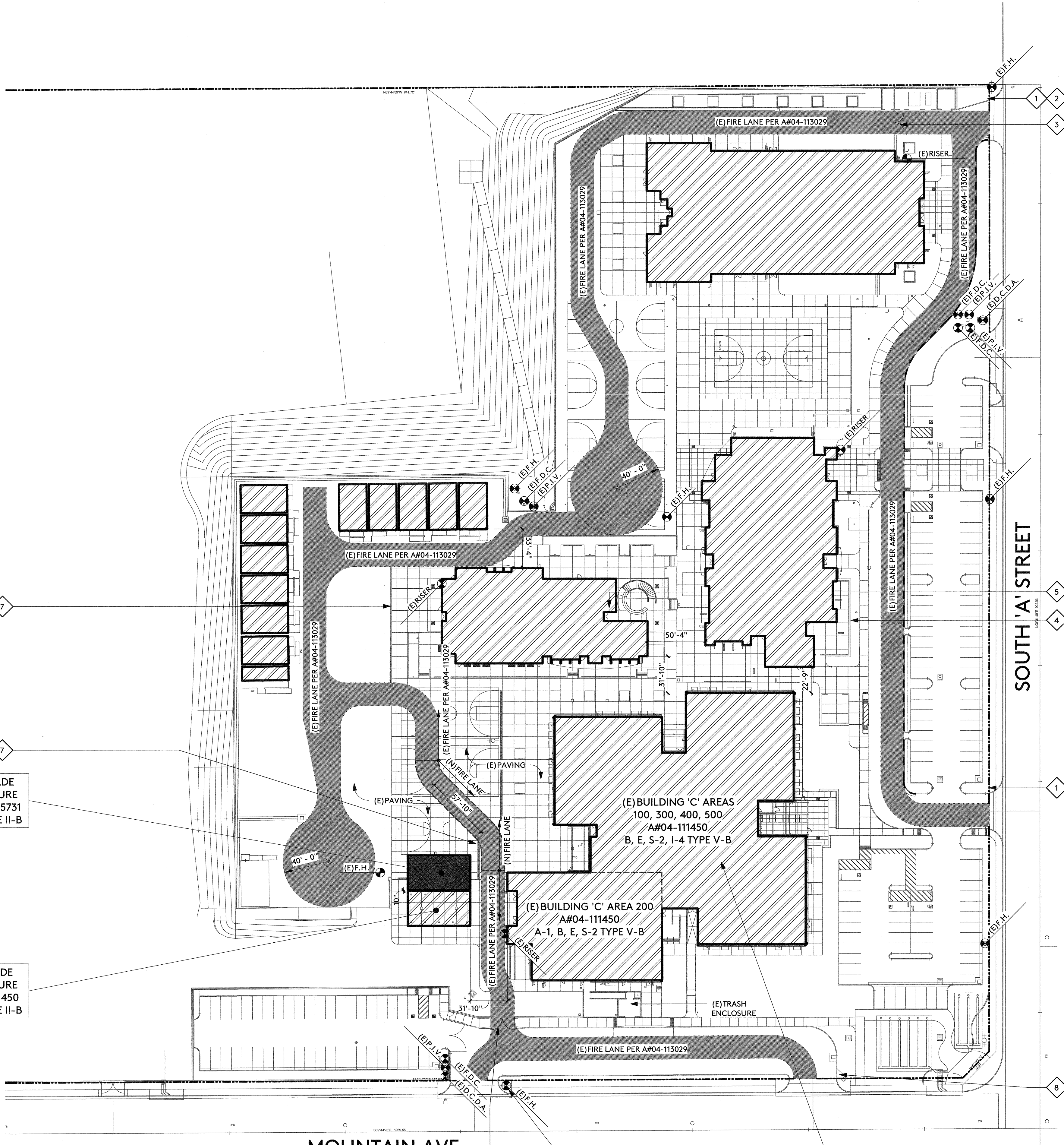
PERRIS UNION HIGH SCHOOL DISTRICT  
 Phone: 949.498.6191, Fax: 949.918.4887

Orange County Office: Address: 24461 Ridge Route Drive #100, Laguna Hills, CA 92653  
 Phone: 714.267.2020, Fax: 714.267.2020

PINACATE MIDDLE SCHOOL SHADE STRUCTURE

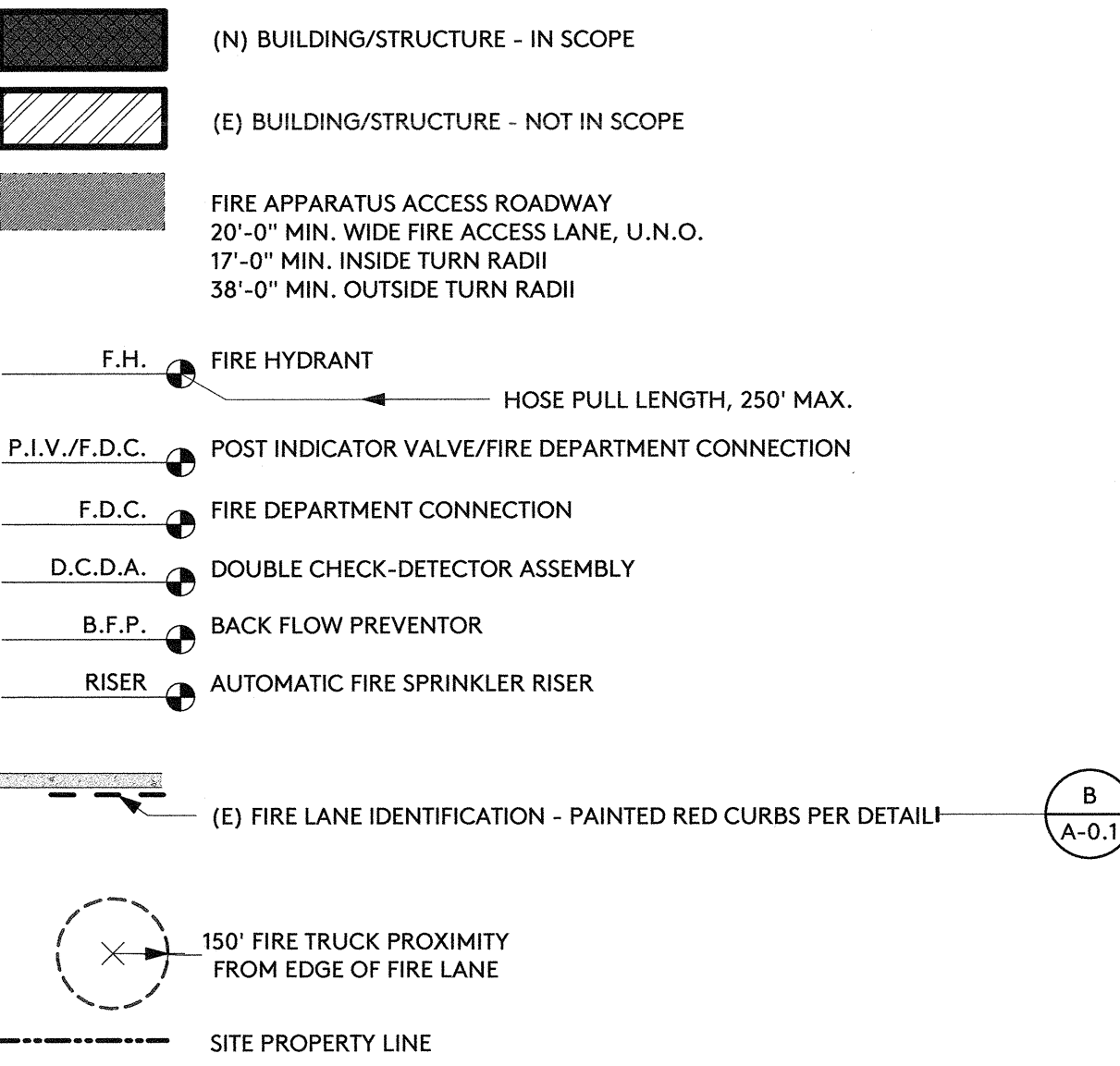
SITE DEMOLITION AND GRADING PLAN

C-1.0



1. OCCUPANCY GROUP(S) GROUP: GROUP:	A-3 A-2
2. CONSTRUCTION TYPE TYPE:	II-B
3. BUILDING HEIGHT (CBC TABLE 504.3) ALLOWABLE: ACTUAL:	55' (A-NS) 10'
4. STORIES ABOVE GRADE PLANE (CBC TABLE 504.4) ALLOWABLE: ALLOWABLE: ACTUAL:	2 (A3-NS) 2 (A2-NS) 1
5. BUILDING AREA (PER STORY) (CBC TABLE 506.2) ALLOWABLE: ALLOWABLE: ACTUAL: EXISTING SHADE STRUCTURE NEW SHADE STRUCTURE	9,500 sf (A3-NS) 9,500 sf (A2-NS) 3,240 sf 1,620 sf 1,620 sf
6. SPRINKLER SYSTEM:	NO

**BLDG. DATA - (N) SHADE STRUCTURE**



\*ROADWAY SHALL BE CONSTRUCTED AND MAINTAINED TO SUPPORT MINIMUM IMPOSED LOADS OF: 68,000 LBS.

**SYMBOLS**

- (E) FIRE LANE ENTRANCE SIGN PER A#04-111450
- (E) TOW-AWAY SIGN PER A#04-113029
- (E) 20'-0" WIDE MANUALLY OPERATED VEHICLE ACCESS GATE WITH RIVERSIDE COUNTY FIRE AUTHORITY APPROVED KNOX BOX/PADLOCK AND 'NO PARKING' SIGN MOUNTED TO EACH FACE OF GATE PER A#04-111450
- (E) LOCATION OF PREMISES IDENTIFICATION (SCHOOL ADDRESS)
- (E) PASSENGER ELEVATOR PER A#04-113029, CAB SIZE: 6'-8"x4'-3"
- (E) 28'-0" WIDE MANUALLY OPERATED VEHICLE ACCESS GATE WITH RIVERSIDE COUNTY FIRE AUTHORITY APPROVED KNOX BOX/PADLOCK AND 'NO PARKING' SIGN MOUNTED TO EACH FACE OF GATE PER A#04-111450
- (E) TRAFFIC RATED TRENCH DRAIN PER A#04-113029
- (E) FIRE LANE ENTRANCE SIGN PER A#04-111450

- INSPECTION REQUIREMENTS**
- PERIS SITE INSPECTIONS ARE REQUIRED FOR THIS PROJECT. PLEASE SCHEDULE ALL FIELD INSPECTIONS AT LEAST 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A RE-INSPECTION FEE. CALL (951) 443-1029 TO SCHEDULE AN INSPECTION.
  - A LUMBER DROP INSPECTION SHALL BE PERFORMED PRIOR TO BRINGING COMBUSTIBLE MATERIALS (OR COMBUSTIBLE FIXTURES AND FINISHES FOR STRUCTURES OF NON-COMBUSTIBLE CONSTRUCTION). ALL WEATHER ACCESS ROADS CAPABLE OF SUPPORTING 68,000 LBS., TOPPED WITH ASPHALT, CONCRETE, OR EQUIVALENT SHALL BE IN PLACE AND HYDRANTS OPERATIONAL AT TIME OF LUMBER DROP INSPECTION.
  - FOR PROJECTS WITH FUEL MODIFICATION, A VEGETATION CLEARANCE INSPECTION IS REQUIRED PRIOR TO A LUMBER DROP INSPECTION. USE THE FUEL MODIFICATION PLAN SERVICE REQUEST NUMBER TO SCHEDULE THE VEGETATION CLEARANCE INSPECTION.
  - PHASED INSTALLATION OF FIRE ACCESS ROADS REQUIRES ADDITIONAL INSPECTIONS NOT COVERED BY THE FEES PAID AT PLAN SUBMITTAL. CONTACT (951) 443-1029 TO ARRANGE FOR ADDITIONAL INSPECTIONS THAT MAY BE NEEDED AND ANY FEES THAT MAY BE DUE.
  - AN ORIGINAL APPROVED, SIGNED, WET-STAMPED PERIS FIRE ACCESS & WATER PLAN SHALL BE AVAILABLE ON-SITE AT TIME OF INSPECTION.
  - ACCESS ROADS AND HYDRANTS SHALL BE MAINTAINED AND REMAIN CLEAR OF OBSTRUCTIONS AT ALL TIMES DURING AND AFTER CONSTRUCTION. AREAS WHERE PARKING IS NOT PERMITTED SHALL BE CLEARLY IDENTIFIED AT ALL TIMES. OBSTRUCTION OF FIRE LANES AND HYDRANTS MAY RESULT IN CANCELLATION OR SUSPENSION OF INSPECTIONS.
  - TEMPORARY FUEL TANKS OF 60 OR MORE GALLONS SHALL BE REVIEWED, INSPECTED, AND PERMITTED BY THE OFFICE OF THE FIRE MARSHAL, CITY OF PERRIS PRIOR TO USE.
  - THE PROJECT ADDRESS SHALL BE CLEARLY POSTED AND VISIBLE FROM THE PUBLIC ROAD DURING CONSTRUCTION.
  - ALL GATES IN CONSTRUCTION FENCING SHALL BE EQUIPPED WITH EITHER A KNOX OR BREAKAWAY PADLOCK.
  - BUILDINGS OF FOUR OR MORE STORIES SHALL BE PROVIDED WITH STAIRS AND A STANDPIPE BEFORE REACHING 40 FEET IN HEIGHT.

- GENERAL REQUIREMENTS**
- FIRE LANE WIDTHS SHALL BE MEASURED FROM TOP FACE OF THE CURB TO TOP FACE OF THE CURB FOR FIRE LANES WITH STANDARD CURBS AND GUTTERS AND FROM FLOW-LINE TO FLOW-LINE FOR FIRE LANES WITH MODIFIED CURB DESIGNS (E.G., ROLLED, RAMPED, ETC.). THE DEVELOPER IS RESPONSIBLE TO VERIFY THAT ALL APPROVED PUBLIC WORKS OR GRADING DEPARTMENT STREET IMPROVEMENT PLANS OR PRECISE GRADING PLANS CONFORM TO THE MINIMUM STREET WIDTH MEASUREMENTS PER THE APPROVED PERIS FIRE DEPARTMENT ACCESS & WATER PLAN AND STANDARDS IDENTIFIED IN PERIS FIRE DEPARTMENT ACCESS & WATER GUIDELINE FOR ALL PORTIONS OF THE FIRE ACCESS ROADS.
  - PERMANENT, TEMPORARY, AND PHASED EMERGENCY ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT AN IMPOSED LOAD OF 68,000 LBS. AND SURFACED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.
  - FIRE LANE SIGNS AND RED CURBS SHALL MEET THE SPECIFICATIONS SHOWN IN PERIS FIRE DEPARTMENT ACCESS & WATER GUIDELINE AND SHALL BE INSTALLED AS DESCRIBED THEREIN. ADDITIONAL FIRE LANE MARKINGS MAY BE REQUIRED AT THE TIME OF INSPECTION DEPENDING ON FIELD CONDITIONS.
  - ALL FIRE HYDRANTS SHALL HAVE A "BLUE REFLECTIVE PAVEMENT MARKER" INDICATING THEIR LOCATION PER THE PERIS STANDARD. ON PRIVATE PROPERTY MARKERS ARE TO BE MAINTAINED IN GOOD CONDITION BY THE PROPERTY OWNER.
  - ADDRESS NUMBERS SHALL BE LOCATED AND BE OF A COLOR AND SIZE SO AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE ROADWAY FROM WHICH THE BUILDING IS ADDRESSED IN ACCORDANCE WITH PERIS FIRE DEPARTMENT ACCESS & WATER GUIDELINE.
  - ACCESS GATES SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE IN COMPLIANCE WITH CHAPTER 5 OF THE CBC AND PERIS FIRE DEPARTMENT ACCESS & WATER GUIDELINE.
  - APPROVED ACCESS WALKWAYS SHALL BE PROVIDED TO ALL REQUIRED OPENINGS AND ALL RESCUE WINDOWS.
  - VEGETATION SHALL BE SELECTED AND MAINTAINED IN SUCH A MANNER AS TO ALLOW IMMEDIATE ACCESS TO ALL HYDRANTS, VALVES, FIRE DEPARTMENT CONNECTIONS, PULL STATIONS, EXTINGUISHERS, SPRINKLER RISERS, ALARM CONTROL PANELS, RESCUE WINDOWS, AND OTHER DEVICES OR AREAS USED FOR FIREFIGHTING PURPOSES. VEGETATION OR BUILDING FEATURES SHALL NOT OBSTRUCT ADDRESS NUMBERS OR INHIBIT THE FUNCTIONING OF ALARM BELLS, HORNS, OR STROBES.
  - DUMPSTERS AND TRASH CONTAINERS LARGER THAN 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF FRASE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM.
  - ANY FUTURE MODIFICATION TO THE APPROVED FIRE DEPARTMENT ACCESS & WATER PLAN OR APPROVED SITE PLAN, INCLUDING BUT NOT LIMITED TO ROAD WIDTH, GRADE, SPEED HUMPS, TURNING RADIUS, GATES OR OTHER OBSTRUCTIONS, SHALL REQUIRE REVIEW, INSPECTION, AND APPROVAL BY THE OFFICE OF THE FIRE MARSHAL, CITY OF PERRIS.
  - APPROVAL OF THIS PLAN SHALL NOT BE CONSTRUED AS APPROVAL OF ANY INFORMATION OR PROJECT CONDITIONS OTHER THAN THOSE ITEMS AND REQUIREMENTS IDENTIFIED IN PERIS FIRE DEPARTMENT ACCESS & WATER GUIDELINE AND RELATED PORTIONS OF THE CBC AND CBC. THIS PROJECT MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS NOT STATED HEREIN UPON EXAMINATION OF ACTUAL SITE AND PROJECT CONDITIONS OR DISCLOSURE OF ADDITIONAL INFORMATION.

**pjhm** architects

THOMAS W. KIRBY  
Lic # C15585  
02/21  
STATE OF CALIFORNIA

LA Office: 837 Traciton Avenue, #410, Los Angeles, CA 90013  
LA Phone: 213.275.0172  
SD Phone: 760.730.5527  
OC Office: 804 Pier View Way #103, Oceanside, CA 92054  
OC Phone: 949.496.6191  
Perris Office: 24461 Ridge Route Drive #100, Legume Hills, CA 92463  
Perris Phone: 951.443.1029

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DIV. OF THE STATE ARCHITECT  
04 119 036  
ACS FLN/ASS CSJ  
DATE JAN 3 2020

PINACATE MIDDLE SCHOOL SHADE STRUCTURE  
PERRIS UNION HIGH SCHOOL DISTRICT

**GENERAL NOTES**

**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.

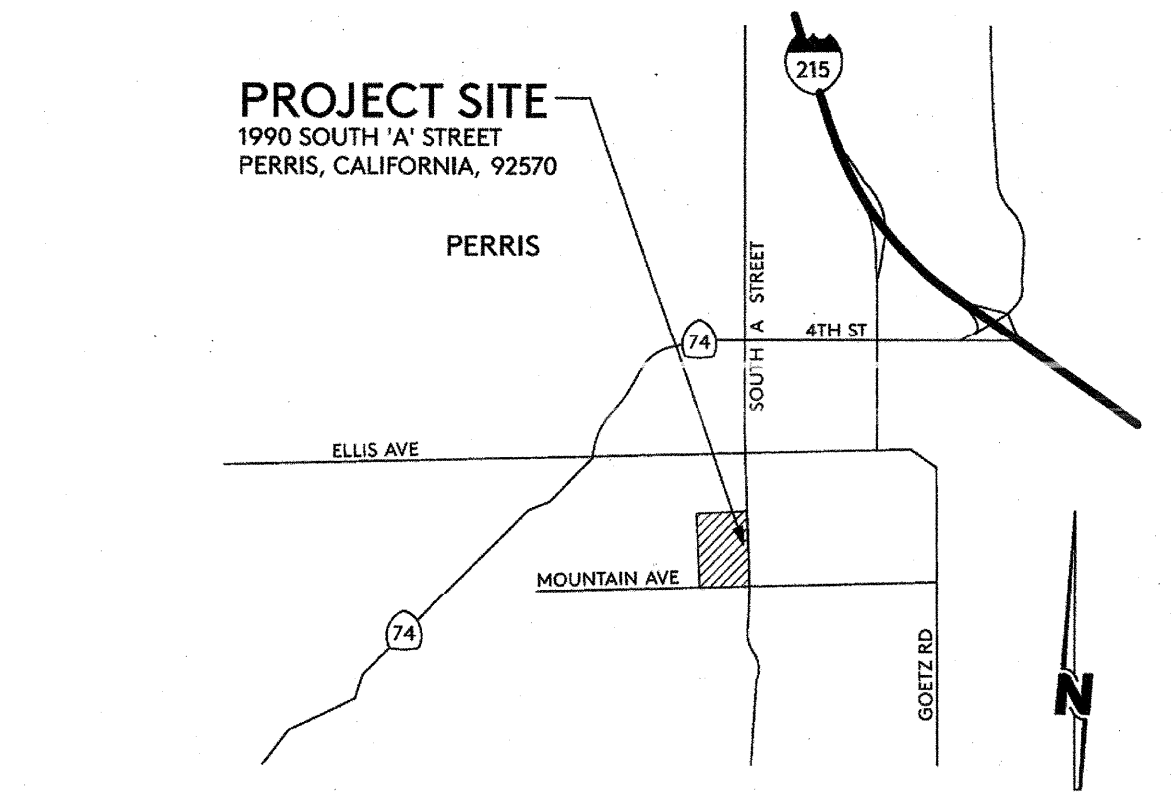
To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new buildings, 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.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be 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: PERRIS UNION HIGH SCHOOL DISTRICT			
Project Name/School: PINACATE MIDDLE SCHOOL			
Project Address: 1990 SOUTH A STREET, PERRIS CA 92570			
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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Refer to the following website for FHSZ locations: <a href="http://ca.fire.ca.gov/FHSZ">http://ca.fire.ca.gov/FHSZ</a>	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA <input type="checkbox"/>

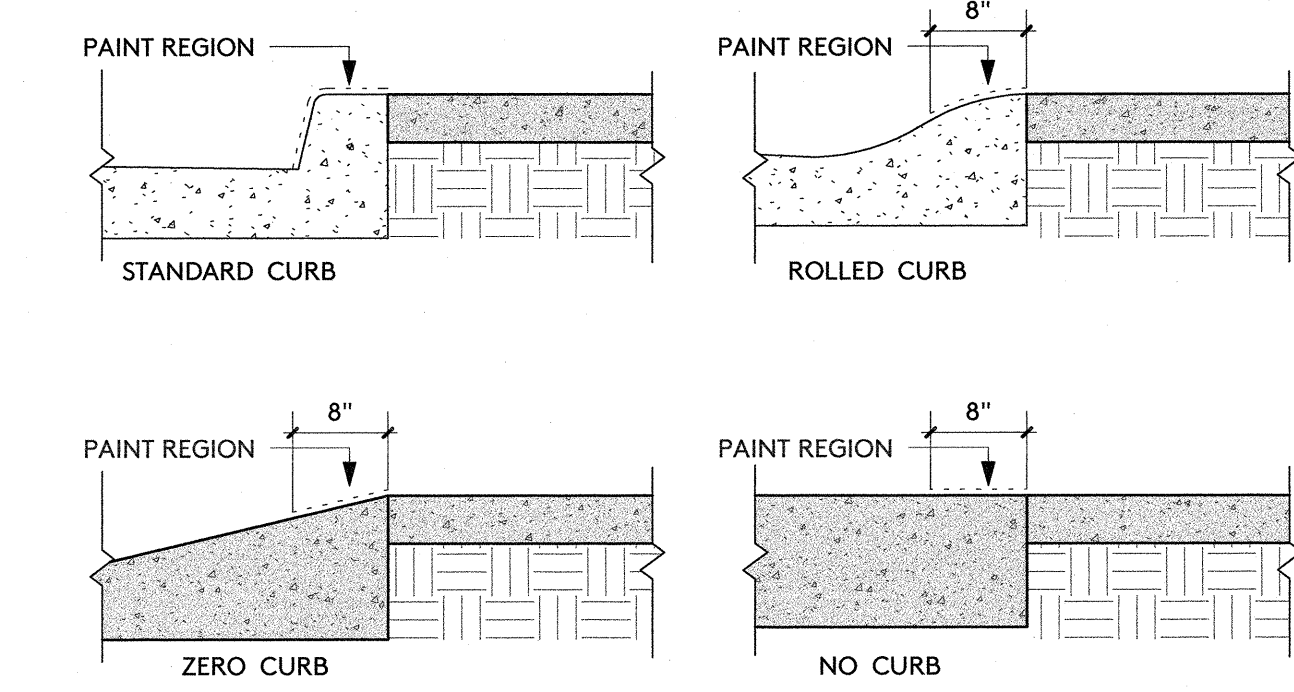
**ARCHITECTURAL SITE PLAN**



**VICINITY MAP**

**FLOW TEST RECORD**  
TEST DATE: JAN. 21, 2020  
STATIC PRESSURE (PSI): 60  
RESIDUAL PRESSURE (PSI): 48  
TESTED FF (GPM): 2031  
DURATION TESTED AT: 2 HOURS

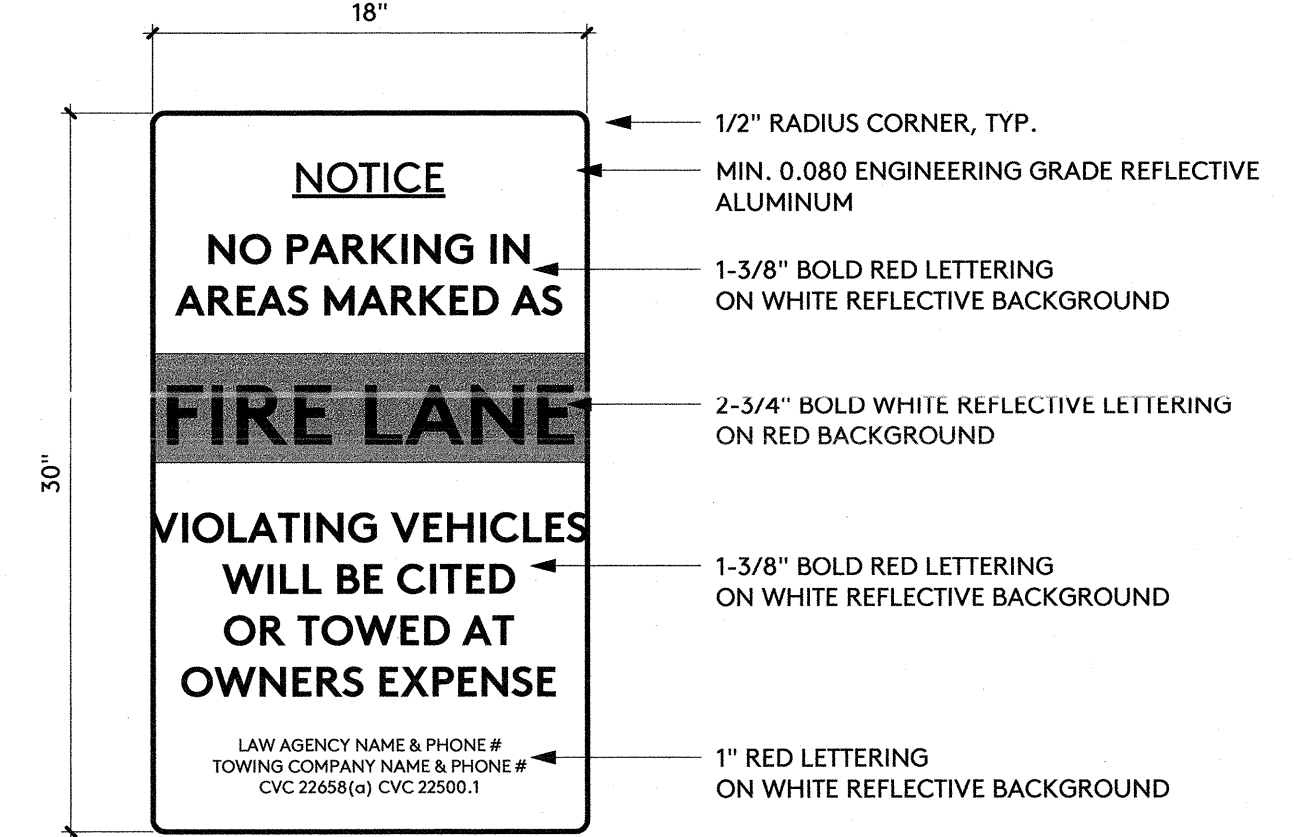
**MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS**  
GREATEST FIRE AREA: 36,767 SF (BUILDING 'C' AREAS 100, 300, 400, 500)  
CONSTRUCTION TYPE: V-B  
AUTOMATIC FIRE SPRINKLERS: YES  
REQUIRED FIRE FLOW: 1,500 GPM @ 20PSI  
REQUIRED FLOW DURATION: 2 HOURS  
MINIMUM # OF HYDRANTS: 1  
AVG. SPACING BETWEEN HYDRANTS: 500'  
AVG. SPACING FROM STREET TO HYDRANT: 250'



- CURBS ALONG ACCESS LANES SHALL BE PAINTED OSHA SAFETY RED
- "FIRE LANE NO PARKING" SHALL BE PAINTED ON TOP OF CURB IN WHITE LETTERING 3" HIGH AND SHALL BE SPACED 30'-0" ON CENTER OR PORTION THEREOF

**CURB PROFILES**

3/4" = 1'-0"



**(E) SITE SIGNAGE - FIRE LANE ENTRY**

1 1/2" = 1'-0"

**SITE PLAN KEYNOTES**

**DSA - 810**

SITE PLAN - LOCAL FIRE AUTHORITY ACCESS

A-0.1

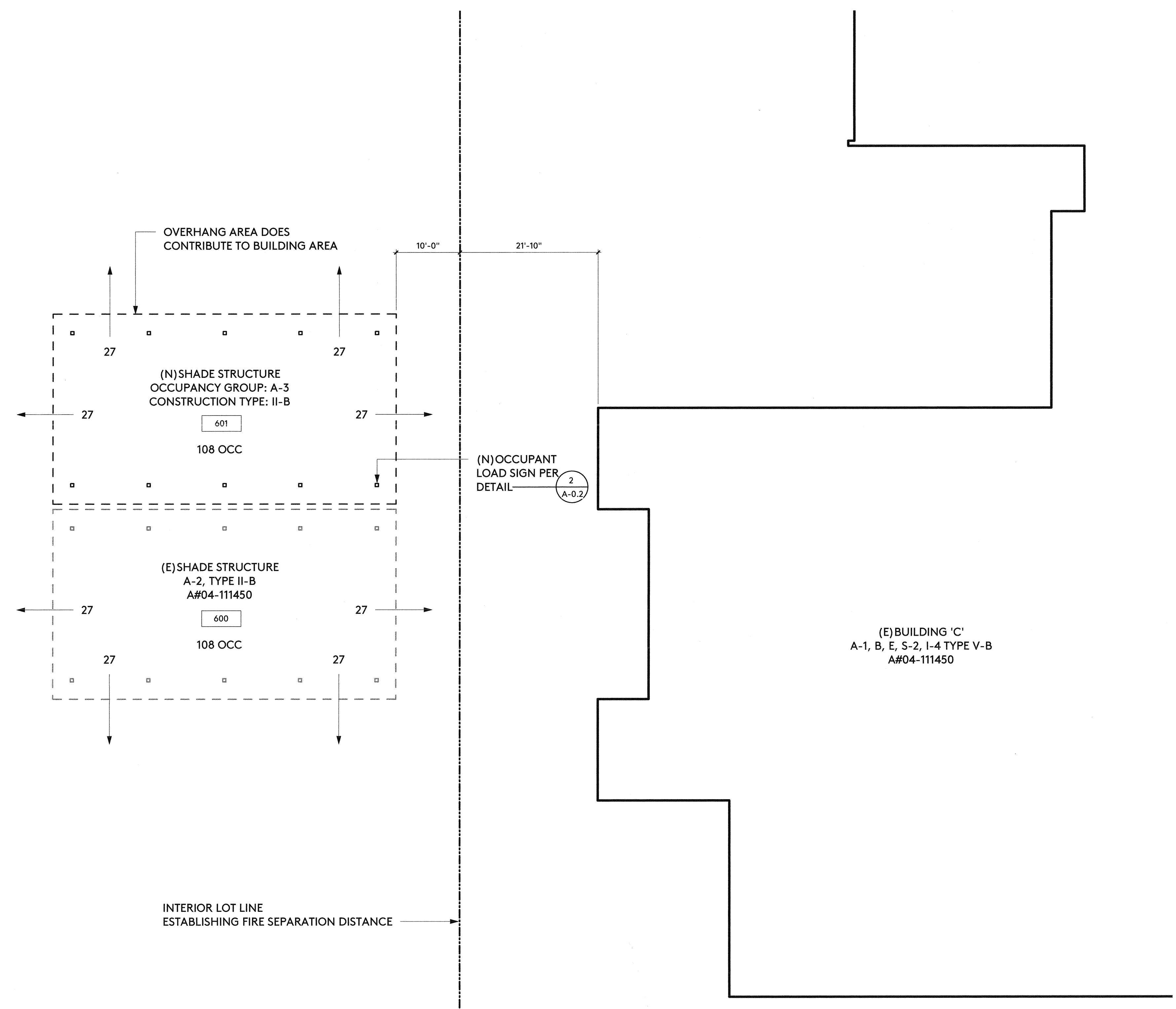
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
04 119 036  
ACS *FLS/ARJOCI*  
DATE JAN 30 2020

**PINACATE MIDDLE SCHOOL SHADE STRUCTURE**

PERRIS UNION HIGH SCHOOL DISTRICT

**BUILDING ANALYSIS**

A-0.2



**1**  
1" = 10'-0"

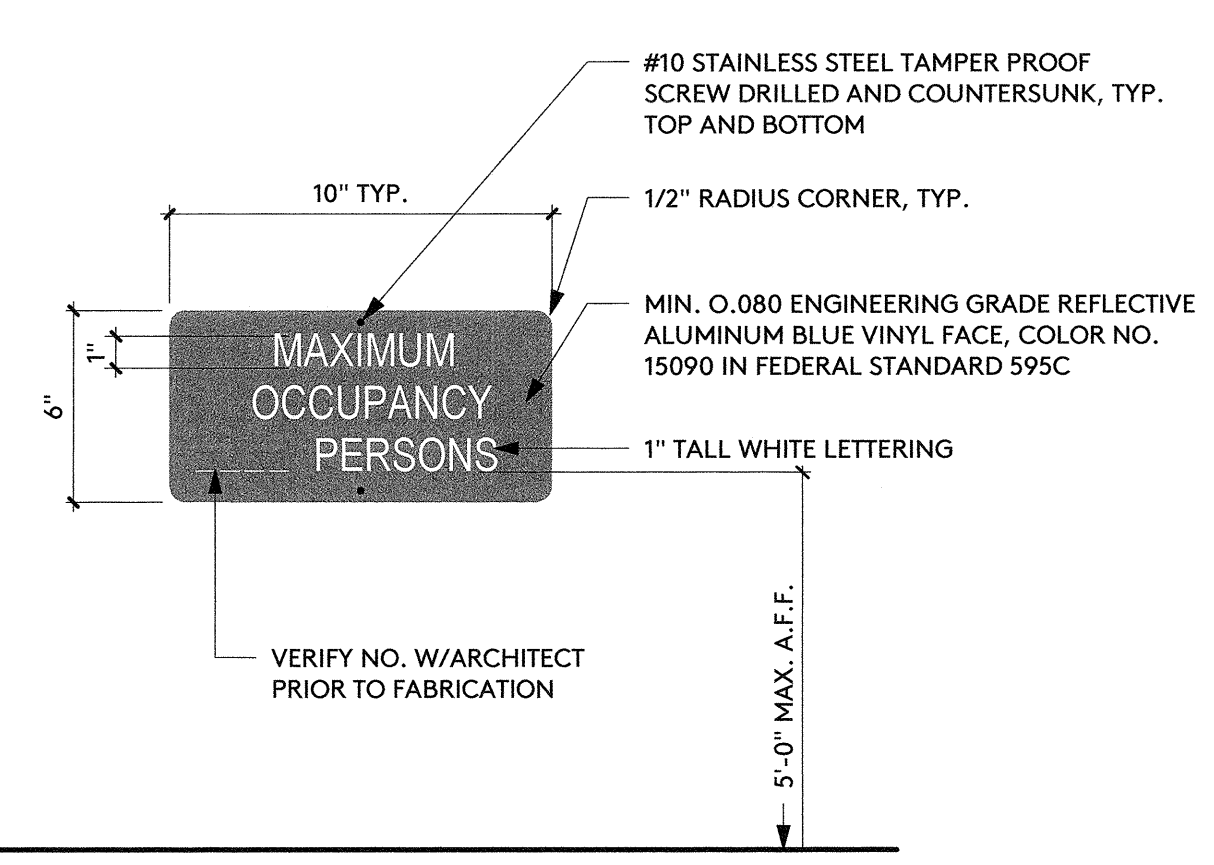
**BUILDING ANALYSIS**

ROOM	NAME	OCCUPANCY	AREA (NET)	OCCUPANT LOAD FACTOR	OCCUPANTS
600	SHADE STRUCTURE	A-2	1620 SF	15	108
601	SHADE STRUCTURE	A-3	1620 SF	15	108

- OCCUPANCY GROUP(S)  
GROUP: A-3  
GROUP: A-2
- CONSTRUCTION TYPE  
TYPE: II-B
- BUILDING HEIGHT (CBC TABLE 504.3)  
ALLOWABLE: 55' (A-NS)  
ACTUAL: 10'
- STORIES ABOVE GRADE PLANE (CBC TABLE 504.4)  
ALLOWABLE: 2 (A3-NS)  
2 (A2-NS)  
ACTUAL: 1
- BUILDING AREA (PER STORY) (CBC TABLE 506.2)  
ALLOWABLE: 9,500 sf (A3-NS)  
9,500 sf (A2-NS)  
ACTUAL: 3,240 sf  
EXISTING SHADE STRUCTURE  
NEW SHADE STRUCTURE 1,620 sf
- SPRINKLER SYSTEM: NO

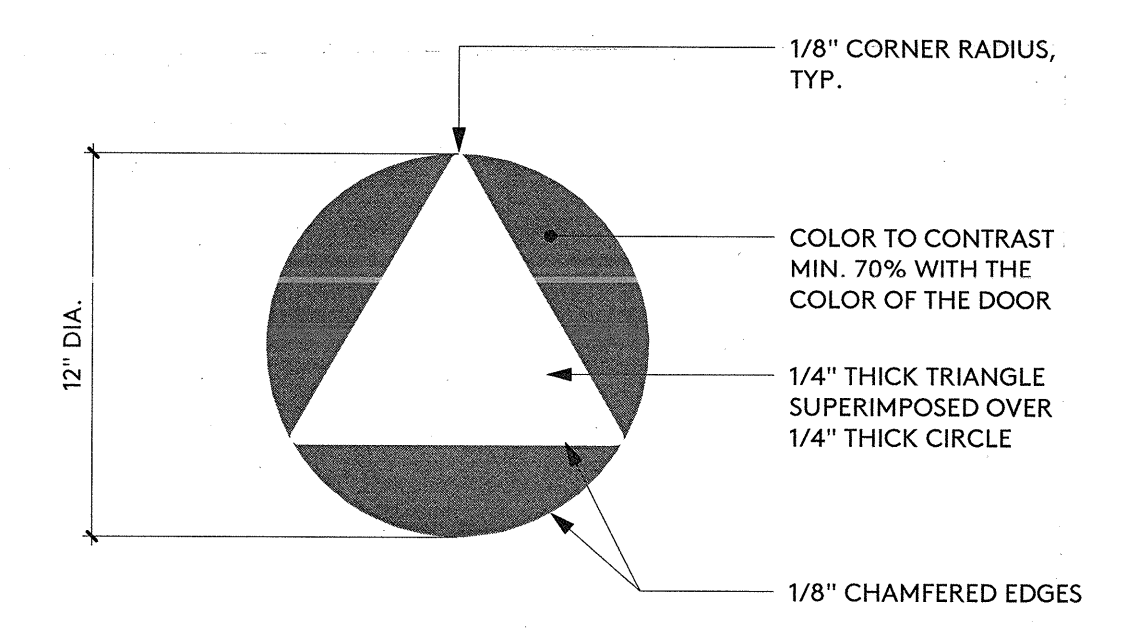
**ROOM OCCUPANCY**

**2**  
1" = 0'-2"



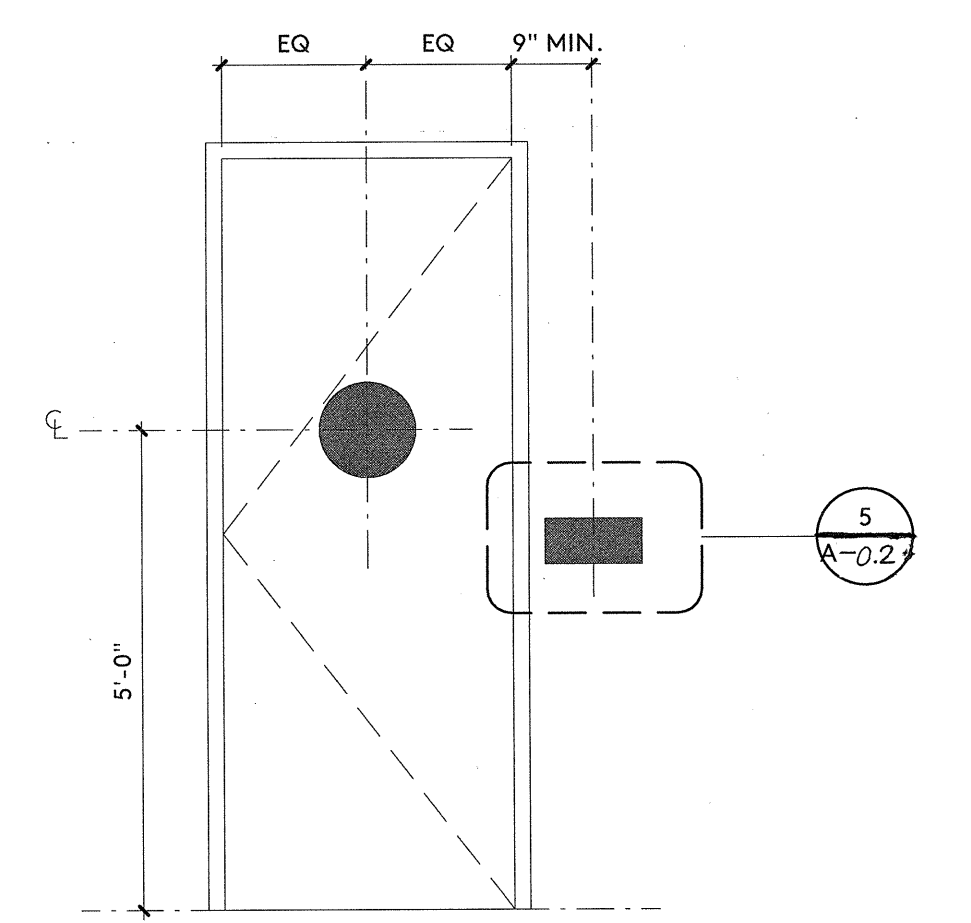
**RESTROOM - DOOR - UNISEX**

**N**  
1" = 0'-2"



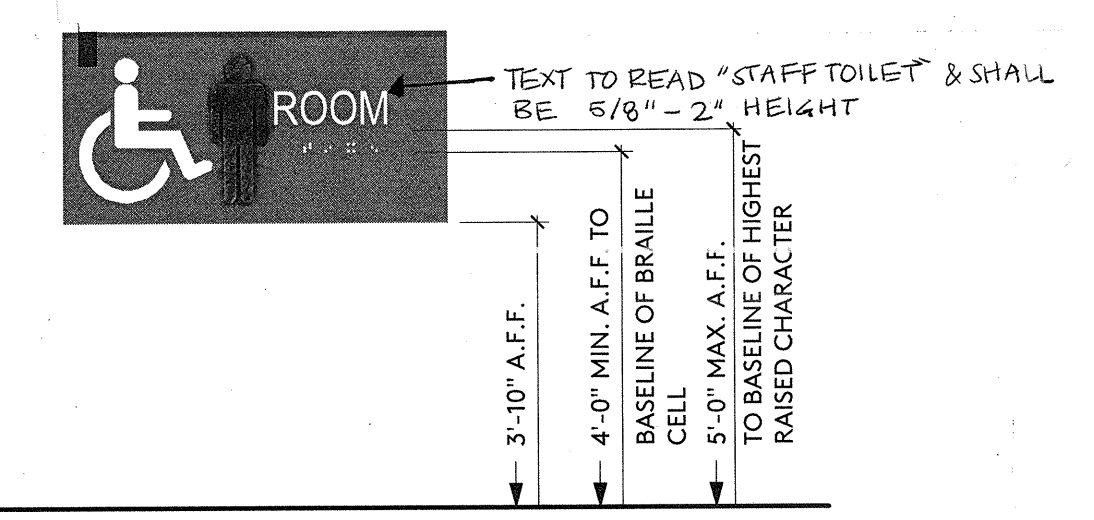
**OCCUPANCY LOAD**

**BLDG. DATA - (N) SHADE STRUCTURE**



**MOUNTING LOCATION - RESTROOM DOOR**

**7**  
1/2" = 1'-0"

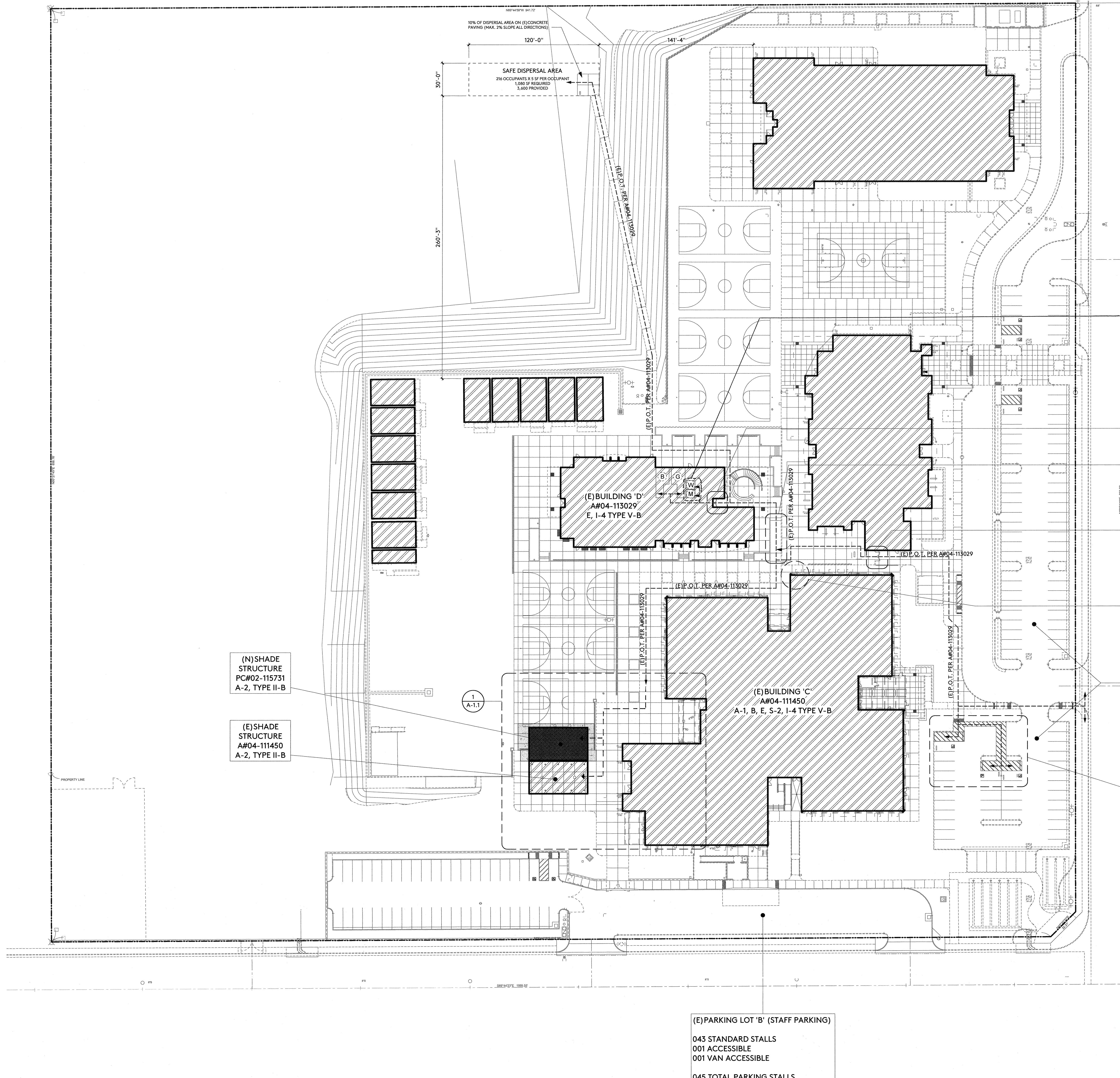


**MOUNTING HEIGHTS**

**5**  
1" = 0'-2"

1/29/2020 2:33:02 PM

# ARCHITECTURAL SITE PLAN



(N) SHADE STRUCTURE PC#02-115731 A-2, TYPE II-B

(E) SHADE STRUCTURE A#04-111450 A-2, TYPE II-B

10% OF DISPOSAL AREA ON (E) CONCRETE PAVING (MAX. 2% SLOPE ALL DIRECTIONS)

SAFE DISPERSAL AREA  
216 OCCUPANTS X 5 SF PER OCCUPANT  
1,080 SF REQUIRED  
3,600 PROVIDED

(E) PARKING LOT 'B' (STAFF PARKING)  
043 STANDARD STALLS  
001 ACCESSIBLE  
001 VAN ACCESSIBLE  
045 TOTAL PARKING STALLS

(E) BUILDING 'C'  
A#04-111450  
A-1, B, E, S-2, I-4 TYPE V-B

(E) BUILDING 'D'  
A#04-113029  
E, I-4 TYPE V-B

REPLACE DOOR GEOMETRIC SYMBOLS AND ROOM SIGNAGE AT (E) STAFF RESTROOMS TO BE GENDER-NEUTRAL. SEE DETAILS S/A-0.2 & N/A-0.2

(E) DOOR WITH ACCESSIBLE HARDWARE A#04-113029

(E) ACCESSIBLE RAMP A#04-113029

(E) PEDESTRIAN GATE WITH ACCESSIBLE HARDWARE A#04-111163

(E) DUAL HEIGHT DRINKING FOUNTAIN A#04-111450

(E) PARKING LOT 'A' (VISITOR PARKING)  
098 STANDARD  
005 ACCESSIBLE  
002 VAN ACCESSIBLE  
105 TOTAL PARKING STALLS

(E) ACCESSIBLE PARKING A#04-116436

- CONTRACTORS BIDDING OR PERFORMING WORK SHALL VERIFY THE CONDITIONS OF THE SITE, INCLUDING ACCESS BEFORE SUBMITTING BID OR COMMENCING WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT DIRECTION.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWINGS ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE OWNERS SATISFACTION.
- REFERENCE CIVIL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL UNDERGROUND UTILITY WORK TO BE COMPLETED IN THIS CONTRACT.
- GENERAL CONTRACTOR TO COORDINATE ALL PHASING AND UTILITY INTERRUPTIONS OF THIS PROJECT WITH THE OWNER AND ARCHITECT AS TO DO THE LEAST POSSIBLE INTERRUPTIONS. (AS-REQ'D)
- PROVIDE CONSTRUCTION BARRICADES AS REQUIRED TO PROTECT THE PUBLIC'S HEALTH AND SAFETY INCLUDING WORK UNDER CONSTRUCTION TO THE REQUIREMENTS OF THE OWNER. COVER OPEN TRENCHES WITH ADEQUATE SOLID MATERIAL.
- EXCAVATION AND TRENCHING SHALL COMPLY WITH THE REQUIREMENTS OF THE TESTING LAB AND JURISDICTIONAL REQUIREMENTS AT THE TIME WORK COMMENCES AND UP TO COMPLETION OF THE WORK.
- COMPLY WITH 2016 CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
- FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
- TEMPORARY CONSTRUCTION FENCING TO BE SUPPLIED BY CONTRACTOR
- ALL NEW WALK SURFACES ON P.O.T.'S SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW OR EXISTING WALK SURFACES IN P.O.T.'S
- ELECTRIC VEHICLE CHARGING STATIONS TO BE SUBMITTED TO DSA FOR APPROVAL PRIOR TO INSTALLATION
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

## GENERAL NOTES

- DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- (N) BUILDING/STRUCTURE - IN SCOPE
  - (E) BUILDING/STRUCTURE - NOT IN SCOPE
  - (N) CONCRETE PAVING
  - (M) (W) (E) STAFF RESTROOM (MEN, WOMEN)
  - (B) (G) (E) STUDENT RESTROOM (BOYS, GIRLS)
  - (R) (E) RESTROOM
  - (E) (E) ELEVATOR
  - (1) SHEET REFERENCE NUMBER
  - (A-1.1) DETAIL REFERENCE NUMBER
  - SITE PROPERTY LINE
  - (N) P.O.T. \*PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER-FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL AND IS AT LEAST 48" WIDE. SURFACE SHALL BE STABLE, FIRM, AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2). PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING (E) WALK SURFACES IN P.O.T. ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T. AND ALL P.O.T. COMPLY WITH SECTION 11B-206.
  - (E) P.O.T.

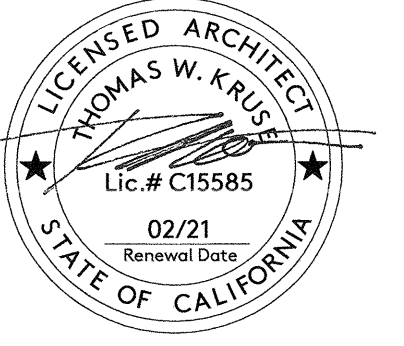
## SYMBOLS

1  
1" = 40'-0"

## SITE PLAN

## PINACATE MIDDLE SCHOOL SHADE STRUCTURE

## PERRIS UNION HIGH SCHOOL DISTRICT

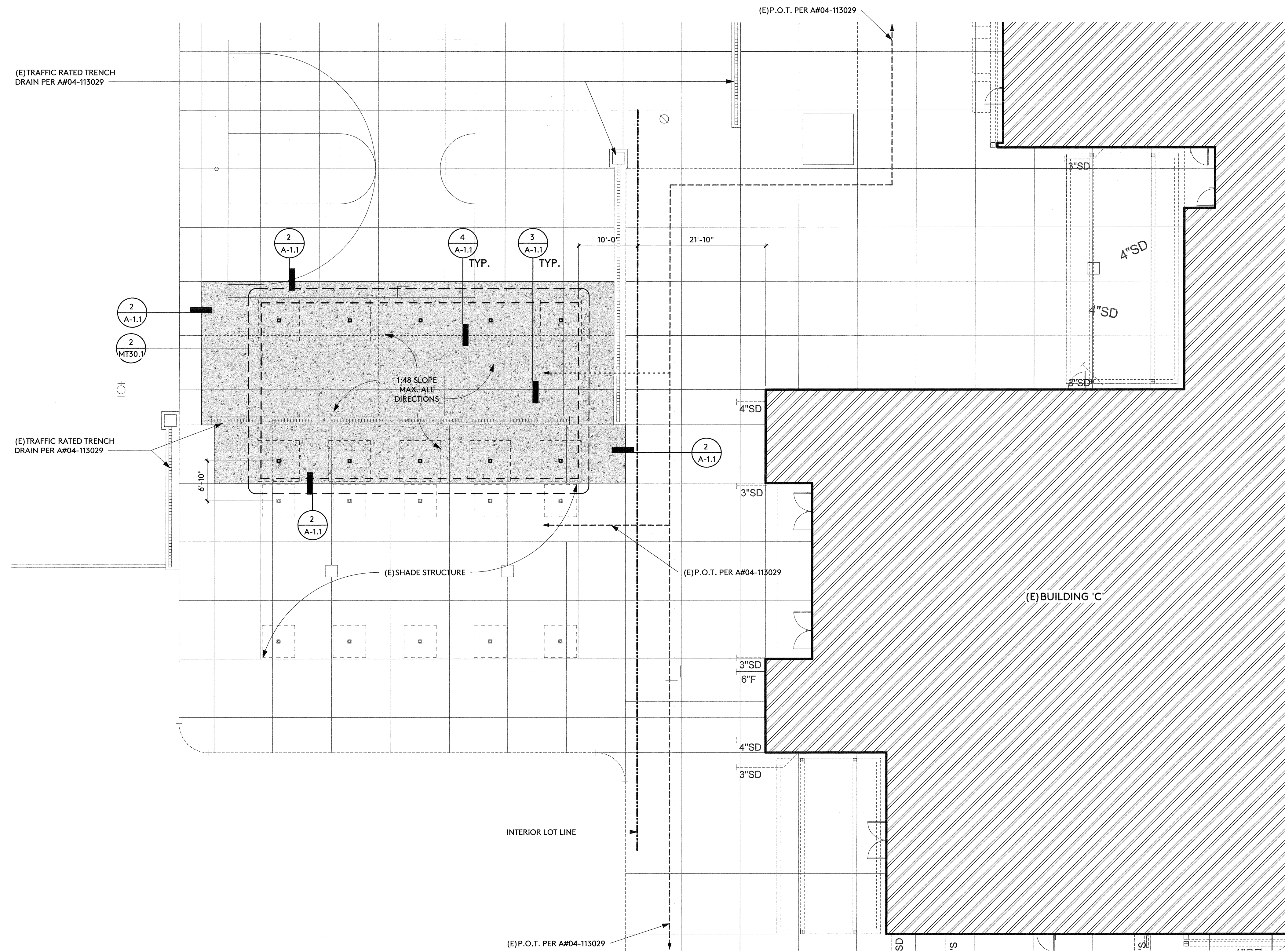


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ARCHITECTURAL SITE PLAN



- CONTRACTORS BIDDING OR PERFORMING WORK SHALL VERIFY THE CONDITIONS OF THE SITE, INCLUDING ACCESS BEFORE SUBMITTING BID OR COMMENCING WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT DIRECTION.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWINGS ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE OWNER'S SATISFACTION.
- REFERENCE CIVIL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL UNDERGROUND UTILITY WORK TO BE COMPLETED IN THIS CONTRACT.
- GENERAL CONTRACTOR TO COORDINATE ALL PHASING AND UTILITY INTERRUPTIONS OF THIS PROJECT WITH THE OWNER AND ARCHITECT AS TO DO THE LEAST POSSIBLE INTERRUPTIONS. (AS-RES'G)
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GENERAL NOTES

- (N) BUILDING/STRUCTURE - IN SCOPE
- (E) BUILDING/STRUCTURE - NOT IN SCOPE
- (N) CONCRETE PAVING
- 1 A-1.0 DETAIL REFERENCE NUMBER SHEET REFERENCE NUMBER
- INTERIOR LOT LINE
- (N) P.O.T. "PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER-FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL AND IS AT LEAST 48" WIDE. SURFACE SHALL BE STABLE, FIRM, AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2). PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING (E) WALK SURFACES IN P.O.T. ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T. AND ALL P.O.T. COMPLY WITH SECTION 11B-206.
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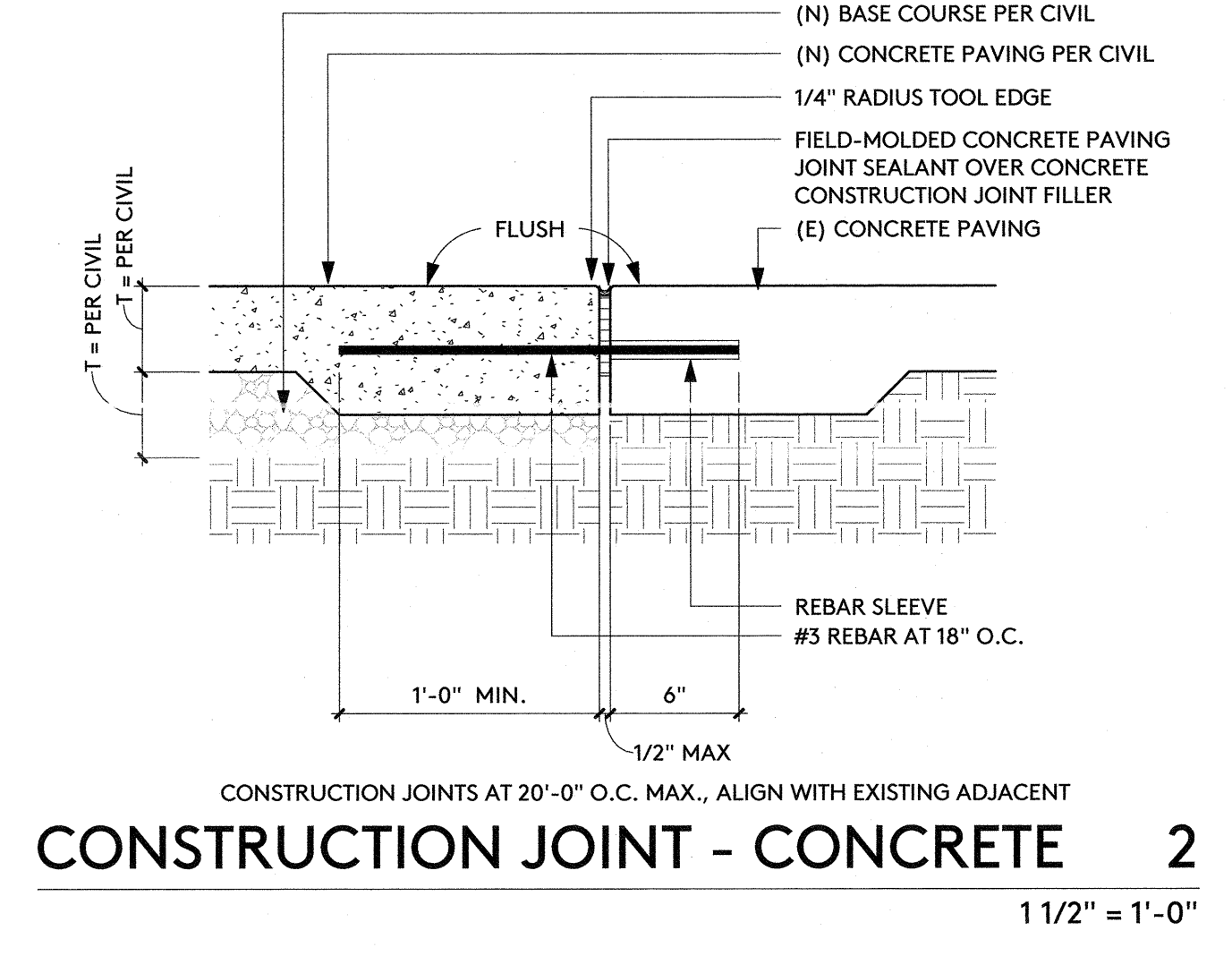
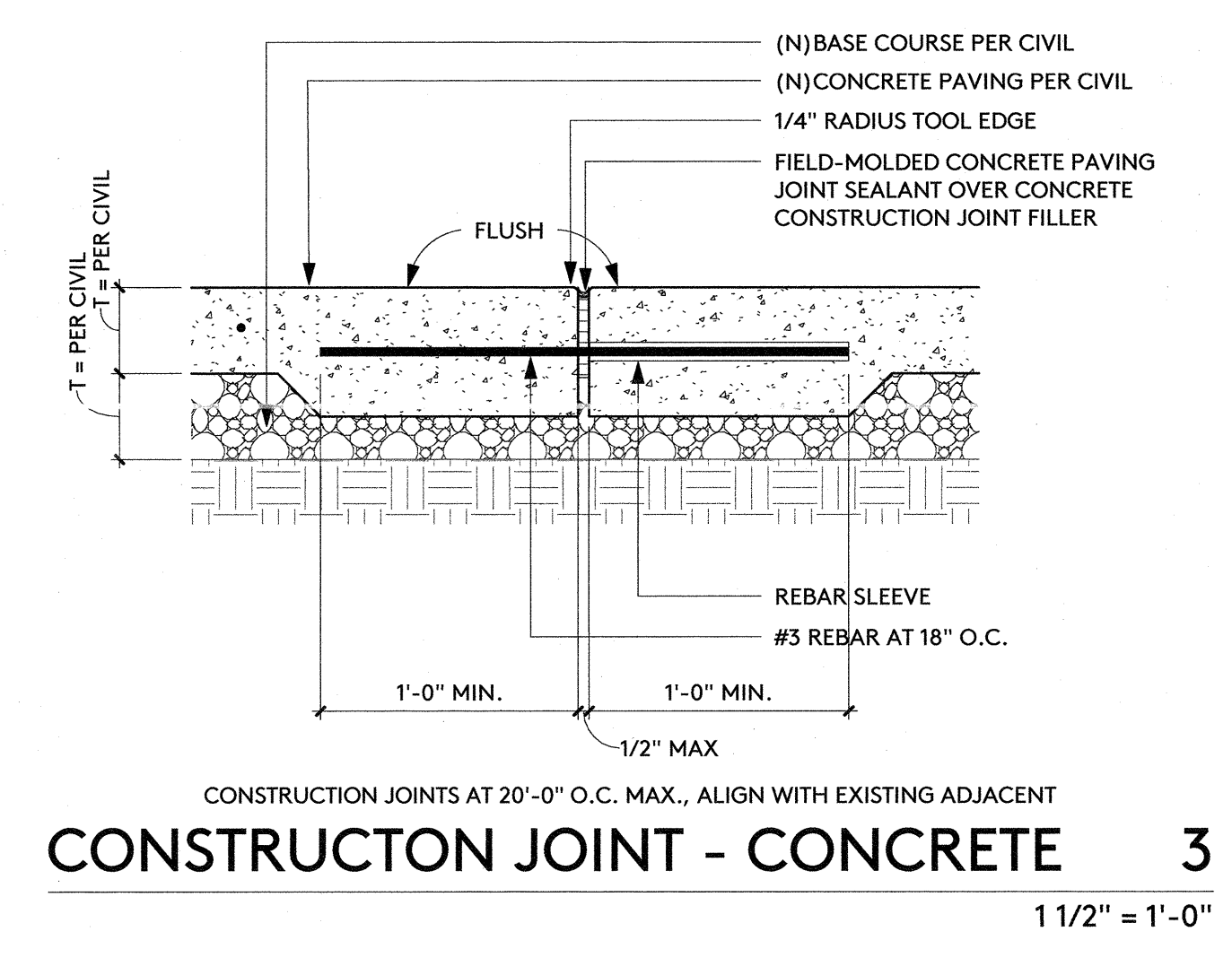
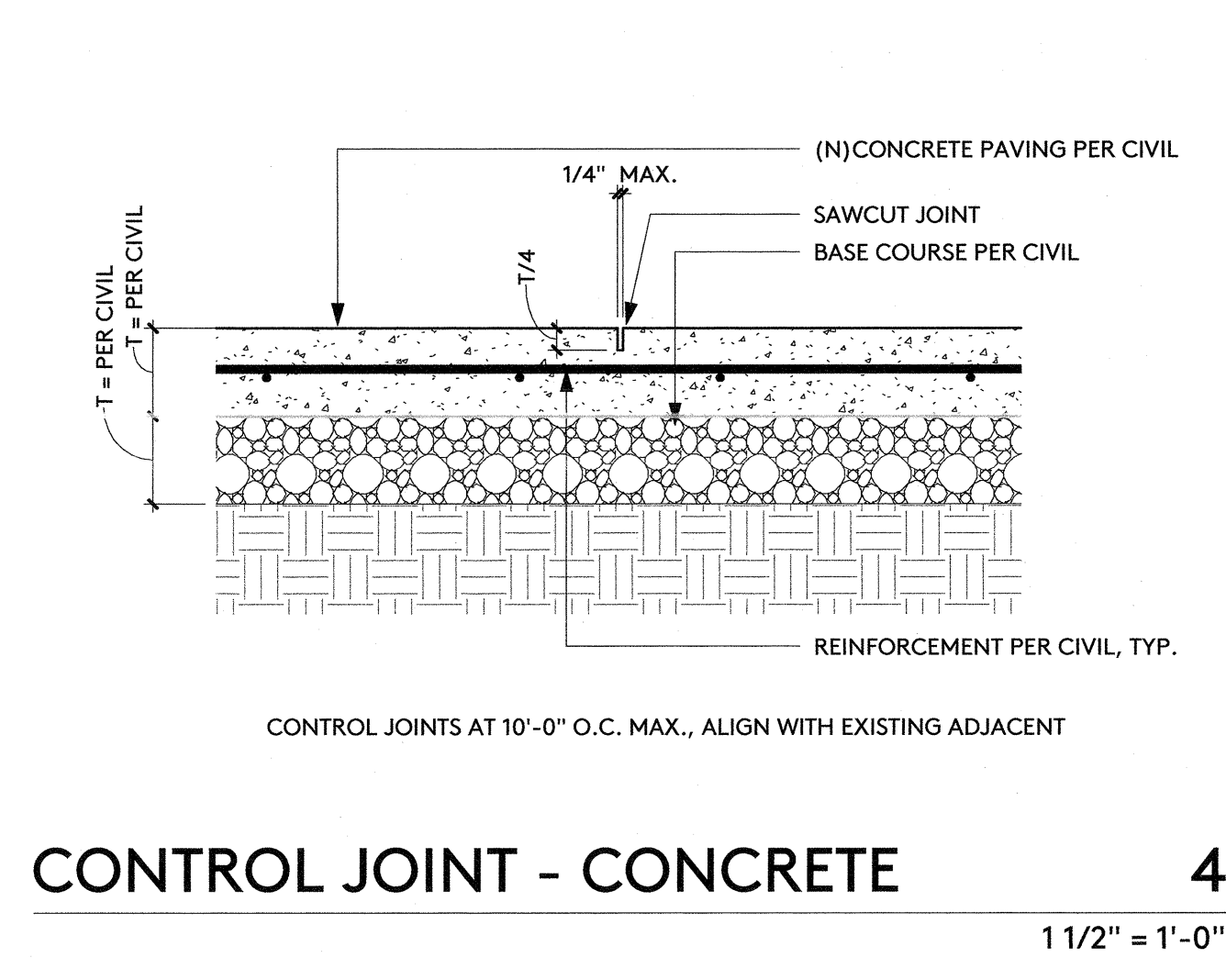
**pjhm** architects

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04 119 006  
ACS 57 FL 1/1/20  
DATE JAN 3 0 2020

PINACATE MIDDLE SCHOOL SHADE STRUCTURE  
PERRIS UNION HIGH SCHOOL DISTRICT

SITE PLAN - ENLARGED  
A-1.1



SYMBOLS

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**ABBREVIATIONS**

4S/DP ADA A.F.F. A.F.G. AWG AMP, A A.I.C. or AIC	4" SQUARE BY 2-1/8" DEEP BOX AMERICAN WITH DISABILITIES ACT ABOVE FINISH FLOOR ABOVE FINISH GRADE AMERICAN WIRE GAUGE AMPERE AMPERS INTERRUPTING CAPACITY (SYMMETRICAL) AVAILABLE FAULT CURRENT AMP FRAME, AMP TRIP AHJ AUTHORITY HAVING JURISDICTION AMP SWITCH, AMP FUSE AUTOMATIC TRANSFER SWITCH AVG BDF BUILDING DISTRIBUTION FRAME BR BLDG CALIFORNIA BUILDING CODE CEC CALIFORNIA ELECTRICAL CODE CIRC., CKT. C CSFD C.O. CONDUIT ONLY, COMPLETE WITH PULLSTRING CONN CPT CLOB CLF CT (D) DAS DIA DISC DIST D.P.C.S. E.C. EMS EMT ENT EWC E.P.O. E-O-L EF EGC or EG or E/G (E) EP (ER) FT or F.A. FLA GRD	GFCI GFP GE or GEC HACR HOA HVAC H.W.,D.,L. HID HP HPS IN, or " I/G IBC I.D.C.S. IDF JBOX K KCMIL KVA KW KWH LCL L.F., L.F. LTG, LTS LPS LPS MAX. MBJ MDF MOCBP MOCB MLO M.C. M M/M M/M MH MIN. MCA MCM MCP MFR. MTD MW NATS NEC NEMA NC	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTION GROUNDING ELECTRODE CONDUCTOR HEATING AIR CONDITIONING REFRIGERATION HAND-OFF-AUTO HEATING, VENTILATING AND AIR CONDITIONING HEIGHT, WIDTH, DEPTH, LENGTH HIGH INTENSITY DISCHARGE HORSEPOWER HIGH PRESSURE SODIUM INCHES ISOLATED GROUND INTERNATIONAL BUILDING CODE INTEGRATED DIMMING CONTROL PANEL INTERMEDIATE DISTRIBUTION FRAME JUNCTION BOX DEGREE KELVIN THOUSAND CIRCULAR MILS KILOVOLT AMPERES KILOWATT KILOWATT HOUR LONG CONTINUOUS LOAD LINEAR FEET LIGHTING LOW PRESSURE SODIUM MAXIMUM MAIN BONDING JUMPER MAIN DISTRIBUTION FRAME MAXIMUM OVERCURRENT PROTECTION MAIN CIRCUIT BREAKER MAIN LUGS ONLY MECHANICAL CONTRACTOR METER METER MAIN MERCURY VAPOR METAL HALIDE MINIMUM MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MOTOR PROTECTOR MANUFACTURER MOUNTED MICROWAVE NON AUTOMATIC DISCONNECT NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NORMALLY CLOSED	NO NF NIC N.I.S. NL NIGHT LIGHT NUMBER OWNER FURNISHED, CONTRACTOR INSTALLED PERCENT IMPEDANCE PH, or @ PC PDU PRIMARY PROVIDE PT PA (R) REC, RECEPT REF RGS RMS RMS SCC SCCR SCS SFD SECONDARY SMACNA SQ. SSBJ SBJ TC TEL/DATA TV T.V.S.S. U.G.P.S. U.O.N. U.P.S. or UPS VAV V VA VD WP W XFMR	NORMALLY OPENED NON-FUSED NOT IN CONTRACT NOT TO SCALE NIGHT LIGHT NUMBER OWNER FURNISHED, CONTRACTOR INSTALLED PERCENT IMPEDANCE PHASE PHOTOCCELL PLUMBING CONTRACTOR POLE POLY VINYL CHLORIDE POWER DISTRIBUTION UNIT OVER 600 VOLTS FURNISH, INSTALL AND CONNECT POTENTIAL TRANSFORMER PUBLIC ADDRESS DENOTES RELOCATED DEVICE LOCATION. RECEPTACLE REFRIGERATOR RIGID GALVANIZED STEEL ROOT MEAN SQUARE SHORT CIRCUIT CURRENT SHORT CIRCUIT CURRENT RATING STRUCTURED CABLING SYSTEM SMOKE FIRE DAMPER 600 VOLTS AND LESS SHEET METAL AND AIR COND. CONTRACTOR'S NAT'L ASSOC. SQUARE SUPPLY SIDE BONDING JUMPER SYSTEM BONDING JUMPER TIMECLOCK TELEPHONE AND DATA TELEVISION TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERGROUND PULL SECTION UNLESS OTHERWISE NOTED UNINTERRUPTABLE POWER SYSTEM VARIABLE AIR VOLUME VOLTS VOLT AMPERES VOLTAGE DROP WEATHERPROOF WIRE TRANSFORMER
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**ANNOTATIONS**

	PANEL CALLOUT, "A" INDICATES PANELBOARD OR EQUIPMENT DESIGNATION.
	MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
	DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
	PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
	REVISION REFERENCE.
	WYE CONFIGURATION
	DELTA CONFIGURATION
	GROUND

**REQUIRED SPECIFICATION DEVIATIONS**

THE FOLLOWING ITEM(S) ARE REQUIRED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS AND SHOULD BE INCLUDED AS PART OF THE BASE BID. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:  
NONE

**ALLOWED SPECIFICATION DEVIATIONS**

THE FOLLOWING ITEM(S) ARE ALLOWED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:  
NONE

**DEDUCTIVE/ADDITIVE ALTERNATE PRICING**

IN ADDITION TO ANY DEDUCTIVE OR ADDITIVE LINE ITEM PRICING CALLED FOR ON THE DRAWING OR IN THE SPECIFICATIONS, CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM DEDUCTIVE/ADDITIVE ALTERNATE PRICING FOR EACH OF THE FOLLOWING ITEM(S):  
NONE

**LIGHTING SYMBOLS**

SITE LIGHTING FIXTURE SYMBOLS DEPICTED WITH CAPITAL LETTER(S) ADJACENT TO RESPECTIVE SYMBOL(S) INDICATE(S) LIGHT FIXTURE MOUNTING BASE DETAIL(S). SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE SYMBOL INFORMATION.  
LIGHTING FIXTURE CALL OUT, NUMBER(S) AND/OR UPPER CASE LETTER(S) (i.e. "1") INDICATES FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE). LOWER CASE LETTER (i.e. "G") ADJACENT TO FIXTURE TYPE INDICATES BALLAST OPTION (SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES).  
INDICATES FINAL CONNECTION TO A LIGHTING FIXTURE, NUMBER OF CONDUCTORS AS REQUIRED.

**BRANCH CIRCUIT SYMBOLS**

	HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. HASH MARKS INDICATE NUMBER OF CONDUCTORS IN CONDUIT RUN, #12 AWG MINIMUM UNLESS OTHERWISE NOTED.
	HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS WITH SEPARATE NEUTRALS. "&" INDICATES SEPARATE NEUTRALS.
	HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. "+" INDICATES SEPARATE #10 NEUTRAL THROUGHOUT BRANCH CIRCUIT. HASH MARK "*" INDICATES AN ISOLATED GROUND CONDUCTOR.
	CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM.
	CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.
	SURFACE-MOUNTED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM.
	TANDEM WIRING CONNECTION.
	CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS
	CONDUIT CONTINUATION.
	FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
	CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW
	CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

**MEP EQUIPMENT ANCHORAGE NOTE:**

ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10, CHAPTERS 13, 26 AND 30.

- A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS, THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA STRUCTURAL ENGINEER. 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 NOTE:**

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.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 PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), 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#) # \_\_\_\_\_.
- MP□ MD□ PP□ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

**pinhm**  
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REGISTERED PROFESSIONAL ENGINEER  
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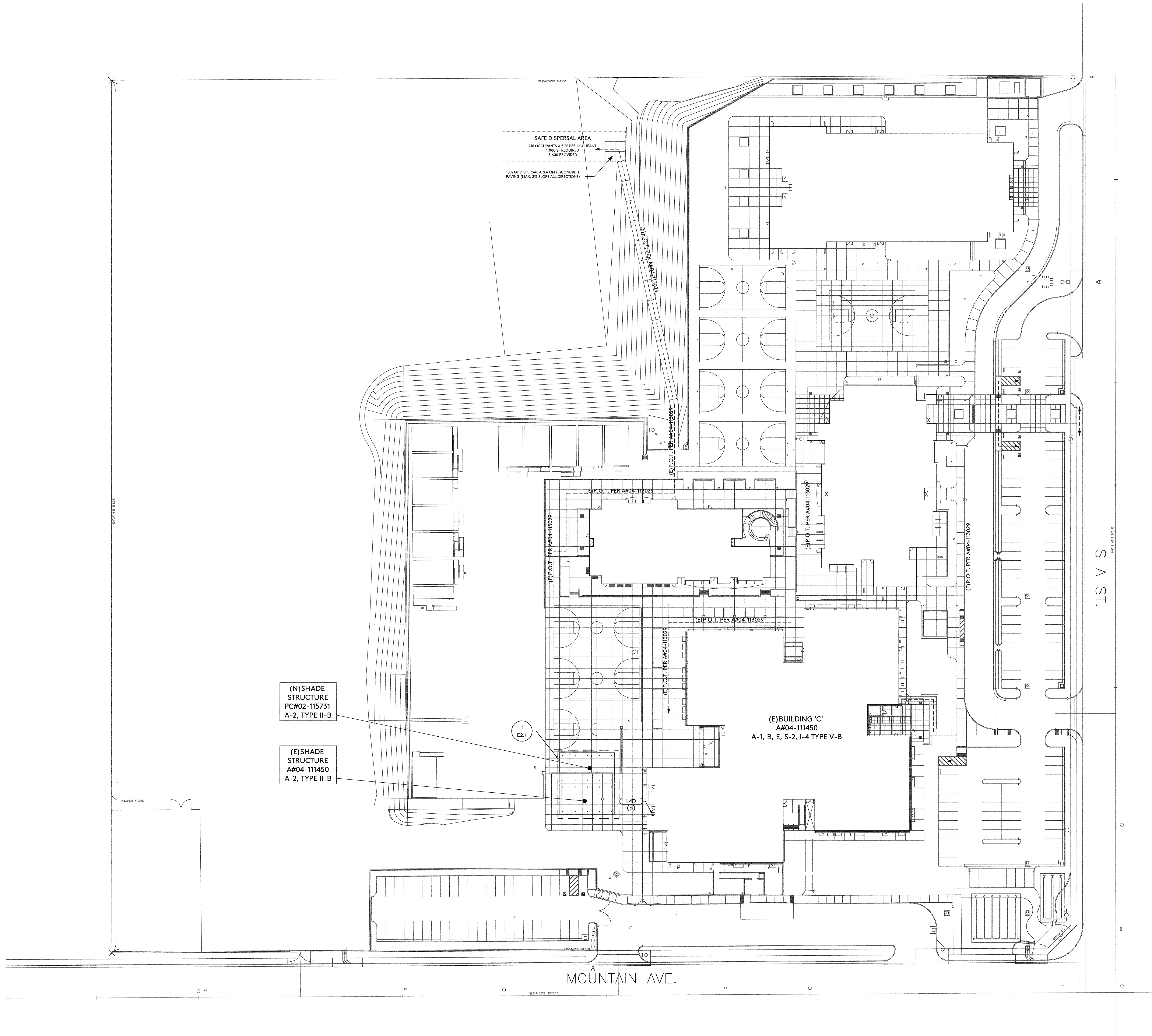
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1  
1" = 40'-0"

**SITE PLAN GENERAL NOTES:**

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" - U.O.N.
4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.O.N.
5. ALL SITE BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR THAT, AT MINIMUM, MATCHES THE SIZE OF THE ASSOCIATED BRANCH CIRCUIT CONDUCTOR. WHERE MULTIPLE BRANCH CIRCUITS ARE ROUTED/GROUPED TOGETHER, THE EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR IN THE GROUP.
6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
7. ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
8. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

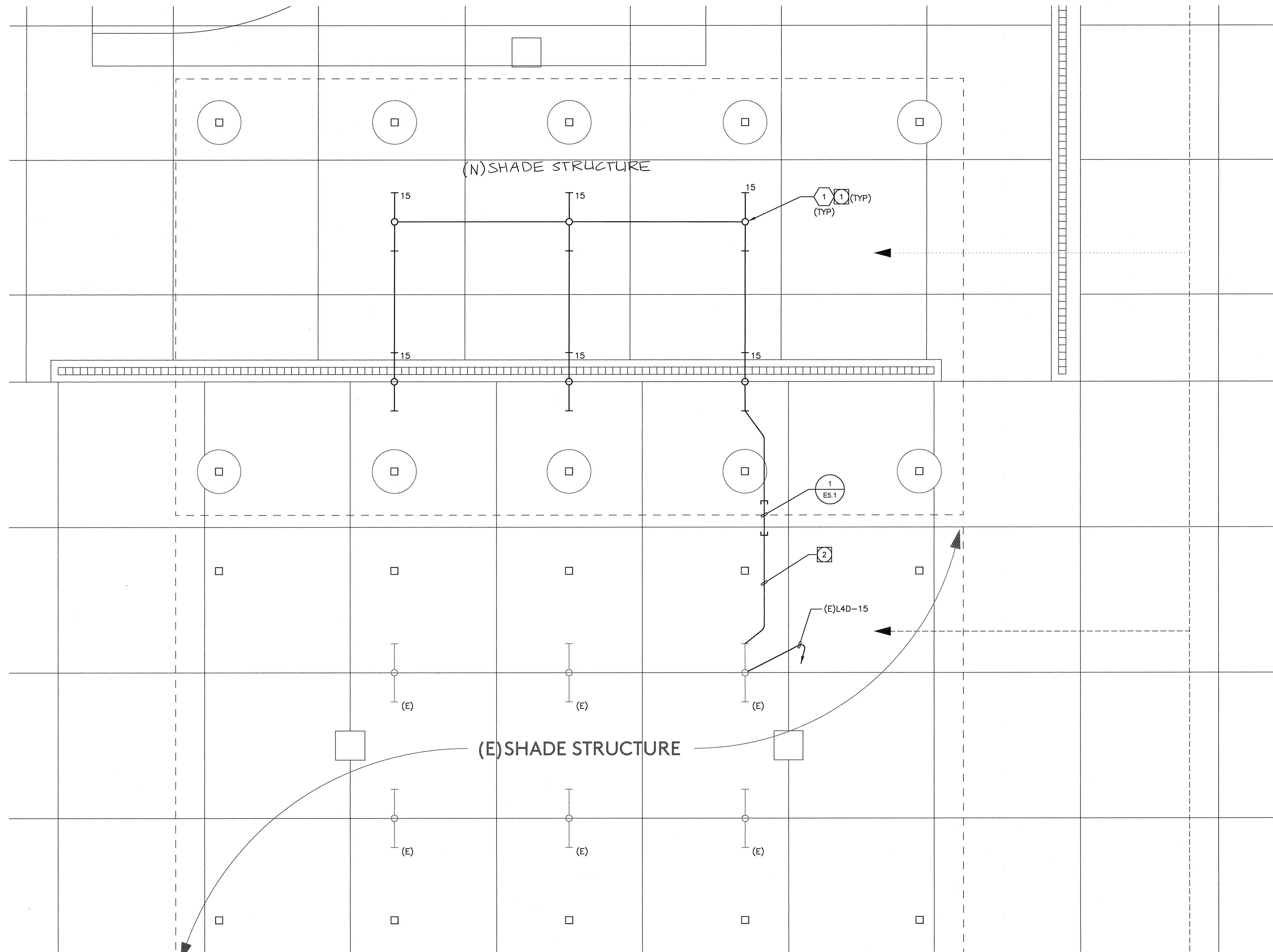
**tk|sc**  
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 Nicolas Brune - Electrical  
 tksc Job #: 2020-0038

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ENLARGED LIGHTING PLAN



PLAN NOTES:

- 1 CONNECT NEW LIGHTING TO EXISTING CIRCUIT AS INDICATED ON PLANS. LIGHTING WILL BE CONTROLLED BY EXISTING PHOTOCELL AND TIME CLOCK.
- 2 INTERCEPT EXISTING CIRCUIT FROM EXISTING SHADE STRUCTURE AND EXTEND.

LIGHTING PLAN GENERAL NOTES:

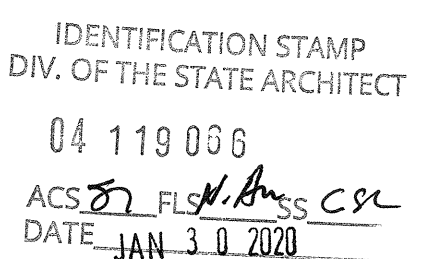
- 1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- 2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SPECS. PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- 3. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL STRUCTURAL SUPPORTS AS REQUIRED BY THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
- 4. ALL PERIMETER AND COVE LIGHTING SHALL EXTEND THE FULL LENGTH OF THE WALLS OR COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
- 5. ALL LINE VOLTAGE DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- 6. RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED, RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- 8. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
  - a. ALL BRANCH CIRCUITS SHALL BE EMT.
  - b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
  - c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
- 9. ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHJ SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
- 10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
- 11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
- 12. REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTE FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.

3-1  
1  
1/4" = 1'-0"

ENLARGED LIGHTING PLAN

PINACATE MIDDLE SCHOOL SHADE STRUCTURE

PERRIS UNION HIGH SCHOOL DISTRICT

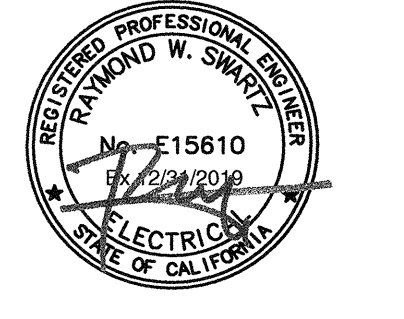
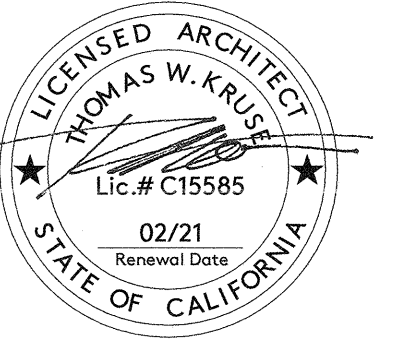
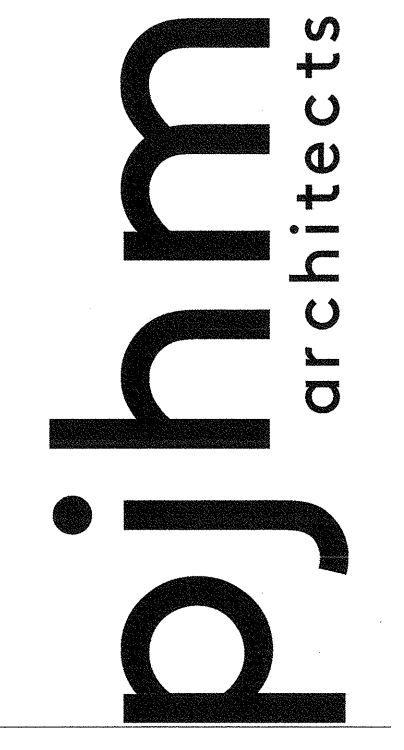


pjhm architects

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(E) PANEL L4D																						
MOUNTING		SURFACE			DOUBLE LUG			NO			VOLTS			MAIN			M.L.O.					
NEMA 3R		NO			200% NEUTRAL			NO			PHASE			BUS			225A					
FEED THRU		NO			1/G BUS			NO			WIRE			A.I.C.			SERIES					
NOTES	LOCATION	A	B	C	L T G	C K T	M R C	B R C	C I R C	B K R	M I S C	K E I T	C O N V	L T G	LOCATION			NOTES				
															A	B	C					
	(E) MULTIPURP LTG	3240			48			20/1	1	2	20/1							(E) SPARE				
	(E) MULTIPURP LTG		2520		36			20/1	3	4	20/1							(E) SPARE				
	(E) MULTIPURP LTG			1980	33			20/1	5	6	20/1							(E) SPARE				
	(E) SPEED LINES	1920			24			20/1	7	8	20/1							(E) SPARE				
	(E) KITCHEN		2190		43			20/1	9	10	20/1							(E) SPARE				
	(E) PLATFORM STORAGE			2125	28			20/1	11	12	20/1							(E) SPARE				
	(E) SPARE							20/1	13	14	20/1							(E) SPARE				
	(E) SHADE STRUCT LTG	1428			26			20/1	15	16	20/1							(E) SPARE				
	(E) SPARE							20/1	17	18	20/1							(E) SPARE				
	(E) SPARE							20/1	19	20								(E) SPARE				
	(E) SPARE							20/1	21	22								(E) SPARE				
	(E) PKG LOT LTG			1380	3			20/1	23	24								(E) SPARE				
	(E) PKG LOT LTG	1380			3			20/1	25	26	20/3		1328					(E) EF-1				
	(E) SPARE							20/1	27	28	--		1328					---				
	(E) SPARE							20/1	29	30	--			1328				---				
	(E) SPARE								31	32	20/3		941					(E) MA-1				
	(E) SPARE								33	34	--			941				---				
	(E) SPARE								35	36	--				941			---				
	(E) AC-29A	2659						15/3	37	38	20/3		3407					(E) AC-31				
				2859					39	40	--				3407			---				
				2659					41	42	--				3407			---				
		A= 14875 VA			B= 14473 VA			C= 13820 VA			PHASE A LCL= 1635 VA			PHASE B LCL= 1535 VA			PHASE C LCL= 1371 VA			TOTAL VA W/LCL= 15191 VA		
		PHASE A WLCL= 16510 VA			PHASE B WLCL= 16008 VA			PHASE C WLCL= 15191 VA			TOTAL VA W/LCL= 4541			TOTAL VA W/LCL= 47709			HIGH PHASE AMPS= 60			AMPS= 57		

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PINACATE MIDDLE SCHOOL SHADE STRUCTURE

PERRIS UNION HIGH SCHOOL DISTRICT

PANEL SCHEDULES

E-3.1

GENERAL PANEL SCHEDULE NOTES:

- WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
- WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
- WHERE PANEL IS INDICATED TO INCLUDE 200% NEUTRAL, PROVIDE PANELBOARDS UL LISTED AS HAVING NEUTRAL BUSSES RATED TO CARRY 200 PERCENT OF THE CURRENT CARRYING CAPACITY OF THE PHASE BUSSING. OTHERWISE, NEUTRAL BUSSING TO BE FULL SIZE AND RECTANGULAR.
- WHERE PANEL IS INDICATED TO INCLUDE AN 1/G BUS, PROVIDE PANELBOARDS WITH AN ISOLATED GROUND BUS, DRILLED AND TAPPED FOR NUMBER OF ISOLATED GROUND CONDUCTORS SHOWN, AS WELL AS FOR ALL SPARES AND SPACES SHOWN ON THE PANELBOARD.
- WHERE PANEL CIRCUIT BREAKER RATING IS SHOWN AS SERIES RATED, PROVIDE CIRCUIT BREAKERS IN PANELBOARD WHICH ARE SERIES RATED WITH THE UPSTREAM SYSTEM FOR THE AVAILABLE FAULT CURRENT. THE PANELBOARD SHALL BE MARKED WITH THE SERIES CONNECTED RATINGS, AS WELL AS ALL MARKING AS REQUIRED BY THE NEC, OR CEC WHERE ADOPTED, 240-83(C).
- WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
- ALL BUSSING SHALL BE TIN PLATED ALUMINUM.
- ALL CIRCUIT BREAKERS USED AS SWITCHES SHALL BE UL LISTED AND LABELED "SWD" FOR SWITCHING DUTY.
- PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (I.E. MULTIPLE CIRCUITS SHARING A COMMON NEUTRAL (NEC, OR CEC WHERE ADOPTED, 210.4(B)), COMMON YOKE (NEC, OR CEC WHERE ADOPTED, 210.7(B)), OR FURNITURE SYSTEM NEC OR CEC WHERE ADOPTED, 605.6 AND 605.7). WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER INTERLOCKS TO EXISTING MULTI-WIRE BRANCH CIRCUITS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
- PROVIDE BREAKER LOCK OFF DEVICE ON ANY CIRCUIT BREAKER FEEDING A TRANSFORMER AS REQUIRED, PER NEC, OR CEC WHERE ADOPTED, 450.14. WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER LOCK-OFF DEVICES TO EXISTING TRANSFORMER CIRCUIT BREAKERS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
- ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
- PANELS SHALL BE OF THE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5-3/4" DEEP UNLESS OTHERWISE NOTED ON PLAN.

- COORDINATE WITH APPLICABLE TRADE TO INSURE RECESSED MOUNTED PANELBOARDS WILL SEAT FLUSH IN THE WALLS PROVIDED. PANEL TRIMS SHALL HAVE CONCEALED DOORS AND FASTENERS WITH FLUSH TYPE COMBINATION LOCK AND CATCH, TWO MILLED TYPE KEYS SUPPLIED WITH EACH PANEL. ALL LOCKS SHALL BE KEYED ALIKE AND EACH DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OF ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.
- UPON PROJECT COMPLETION, CONTRACTOR SHALL INSTALL TYPED AS-BUILT PANEL DIRECTORIES IN EACH PANEL WITHIN THE MFG-PROVIDED DIRECTORY HOLDER. THE DIRECTORY SHALL CLEARLY IDENTIFY EACH CIRCUIT TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. EACH CIRCUIT IDENTITY SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS PER NEC, OR CEC WHERE ADOPTED, ART 408.1 AND 408.4. HANDWRITTEN DIRECTORIES ARE UNACCEPTABLE. COPIES OF AS-BUILT PANEL SCHEDULES SHALL BE PLACED IN PANEL DIRECTORIES. E.C. TO INCLUDE ALL COSTS REQUIRED FOR LARGER-THAN-STANDARD CUSTOM PANEL DIRECTORY HOLDERS TO ACCOMMODATE COPIES OF AS-BUILT PANEL SCHEDULES.
- PANELBOARDS SHALL BE MANUFACTURED BY G.E., CUTLER-HAMMER, SIEMENS, OR SQUARE "D". FUSED PANEL BOARDS SHALL BE BY COOPER BUSSMANN.
- PROVIDE SHOP DRAWING SUBMITTAL PER THE ELECTRICAL SPECIFICATION REQUIREMENTS FOR EACH PANEL DEPICTING CONFORMANCE WITH THE ABOVE NOTES AND SCHEDULES.

SPECIFIC PANEL SCHEDULE NOTES:

- "A" PROVIDE LOCK-ON DEVICE.
- "B" PROVIDE PERMANENT LOCK-OFF DEVICE THAT SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED, PER NEC, OR CEC WHERE ADOPTED, SECTION 110.25.
- "C" PROVIDE SHUNT TRIP DEVICE.
- "D" PROVIDE GFCl TYPE DEVICE.
- "E" PROVIDE A RED CIRCUIT BREAKER.
- "F" PROVIDE A NEW BREAKER TO MATCH THE EXISTING IN PANEL.
- "G" EXISTING BREAKER WITH NEW LOAD.
- "H" PROVIDE AFCI TYPE DEVICE COMPLYING WITH NEC, OR CEC WHERE ADOPTED, 210.12(A) & (B).

PANEL SCHEDULE INDEX

-	-	L4D
-	-	-
-	-	-

**AS-BUILT PANEL DIRECTORY NOTE:**  
 BRANCH CIRCUIT LOCATIONS NOTED WITH "(E)" INDICATE EXISTING CIRCUIT(S). THE IDENTITIES OF THESE CIRCUITS ARE BASED ON EXISTING PANEL DIRECTORIES AND/OR LIMITED AS-BUILT INFORMATION. CONTRACTOR SHALL FIELD VERIFY EACH BRANCH CIRCUIT AND PROVIDE COMPLETE, TYPED AS-BUILT PANEL DIRECTORIES AS REQUIRED THAT DISTINGUISH EACH CIRCUIT PER NEC, OR CEC WHERE ADOPTED, ART 408.1 AND 408.4. COMPLETED DIRECTORIES SHALL BE SUBMITTED TO THE ELECTRICAL INSPECTOR PRIOR TO FINAL ELECTRICAL INSPECTION. INCLUDE ALL COSTS IN BID.

**EXISTING CIRCUIT BREAKER NOTE:**  
 PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (I.E. MULTIPLE CIRCUITS SHARING A COMMON NEUTRAL (NEC, OR CEC WHERE ADOPTED, 210.4(B)), COMMON YOKE (NEC, OR CEC WHERE ADOPTED, 210.7(B)), OR FURNITURE SYSTEM NEC OR CEC WHERE ADOPTED, 605.6 AND 605.7). WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER INTERLOCKS TO EXISTING MULTI-WIRE BRANCH CIRCUITS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.

**LIGHTING FIXTURE SCHEDULE NOTES:**

- A. GENERAL NOTES:**
- THE LIGHTING FIXTURES, LAMPS, BALLASTS, POWER SUPPLIES, DRIVERS AND TRANSFORMERS FOR THIS PROJECT HAVE BEEN SPECIFIED TO ENSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNERS, ARCHITECTS, ENGINEERS AND LIGHTING CONSULTANT'S DESIGN CRITERIA.
  - CONTRACTOR SHALL PROVIDE ALL MATERIALS AS DETAILED ON DRAWINGS AND/OR SCHEDULES, AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING LIGHTING SYSTEM.
  - CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT OF ANY PROVISIONS OF THE SPECIFICATION THAT IS IN CONFLICT WITH LOCALLY ENFORCED CODES.
  - CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY REQUIRED MODIFICATIONS THAT ARE NOT SHOWN ON THE DRAWINGS.
  - ALL ELECTRICAL MATERIAL SHALL BE IN NEW & UNDAMAGED CONDITION WHEN INSTALLED. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
  - ALL DIMENSIONS & MEASUREMENTS FOUND ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL VALIDATE ALL DIMENSIONS PRIOR TO ORDERING MATERIAL TO INCLUDE MAKING FIELD MEASUREMENTS BASED ON ACTUAL SITE CONDITIONS TO DEVELOP COMPLETE ORDERS AND INSTALL SYSTEMS PER DRAWINGS AND SPECIFICATIONS.
  - REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ASSOCIATED DEVICES AND EQUIPMENT.
  - PRIOR TO AIMING/ADJUSTING ACTIVITIES, COMMISSIONING OR PUNCHWALK COMMENCEMENT, CONTRACTOR SHALL PROPERLY TEST AND VERIFY ALL CIRCUITRY AND CONTROL WIRING AND IMPLEMENT ALL CONTROLS PROGRAMMING.
- B. INSTALLATION:**
- LOCATIONS OF THE FIXTURES SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND SHALL BE COORDINATED AT TIME OF ROUGH-IN. CONFLICTS BETWEEN THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND THE ELECTRICAL/LIGHTING DESIGN PLAN(S) SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO ORDERING FIXTURES.
  - LIGHTING DRAWINGS REPRESENT THE DESIGN INTENT OF THE EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES AND ADDITIONAL HARDWARE AND DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
  - ALL LIGHTING FIXTURES SHALL BE MOUNTED AND INDIVIDUALLY SUPPORTED IN ACCORDANCE WITH APPLICABLE CODES. FIXTURES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.
  - CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING HARDWARE IS COMPATIBLE WITH APPROVED MOUNTING CONDITIONS. MOUNTING CONDITIONS MUST ALLOW FOR AIMING AND ADJUSTING OF LIGHTING FIXTURES ON SITE.
  - CONTRACTOR TO INCLUDE AIMING/ADJUSTING LABOR AFTER DARK AS REQUIRED FOR ANY ADJUSTABLE LIGHTING FIXTURE AND FOR EACH INDIVIDUAL LIGHTING FIXTURE HEAD OR LAMP HOLDER IN A MULTI-FIXTURE/MULTI-LAMP ASSEMBLY. LIGHTING FIXTURES TO BE AIMED/ADJUSTED PER THE DIRECTION OF OWNER, ARCHITECT AND/OR LIGHTING CONSULTANT.
  - CONTRACTOR TO SUPPLY ADEQUATE SUPPORT INCLUDING LADDERS, LIFTS OR OTHER EQUIPMENT REQUIRED TO ACCESS LIGHTING FIXTURES AT THE TIME OF FOCUS, INCLUDING EVENING OR NIGHT WORK AS MAY BE REQUIRED DUE TO SCHEDULE CONFLICT OR DAYLIGHT IMPACT. AIMING/ADJUSTING LABOR SHALL BE PREPARED FOR WORK WITH COMMON HAND TOOLS TO MAKE ADJUSTMENTS AND MINOR REPAIRS DURING AIMING.
  - ALL COVE MOUNTED LIGHTING FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF LIGHTING FIXTURES AS REQUIRED. PROVIDE COMPLETE MANUFACTURER SHOP DRAWINGS OF BUILT-IN COVE OR LINEAR LIGHTING SYSTEMS.
  - CONTRACTOR TO REPLACE ALL INOPERATIVE LAMPS, LED ARRAYS OR SYSTEMS AT THE END OF THE CONSTRUCTION PHASE PRIOR TO THE FOCUS AND PROGRAMMING PHASE AND AGAIN PRIOR TO OWNER OCCUPANCY OR PROJECT OPENING.
  - ALL POLE MOUNTED FIXTURES, POST MOUNTED FIXTURES AND BOLLARDS SHALL BE PROVIDED WITH A STRUCTURAL FOOTING AS DETAILED ELSEWHERE IN THE DRAWINGS. FOOTING SIZE TO BE PROVIDED BY STRUCTURAL ENGINEER. REFERENCE FIXTURE SCHEDULE AND DETAILS FOR MORE INFORMATION.
  - ALL EXIT SIGNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE PREVENTION CODE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE SUCH THAT ALL EXIT SIGNS ARE INSTALLED IN AN APPROVED VISIBLE LOCATION. THE CONTRACTOR SHALL VERIFY CHEVRONS AND NUMBER OF FACES PER EXIT SIGN WITH ARCHITECTURAL REFLECTED CEILING PLAN(S). ANY DISCREPANCIES BETWEEN EXIT SIGNS DEPICTED ON ARCHITECTURAL AND ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- C. SUBMITTALS AND SUBSTITUTIONS:**
- CONTRACTOR TO SUBMIT FOR APPROVAL ON THE PRODUCTS THEY INTEND TO FURNISH WITHIN TEN (10) DAYS OF AWARD OF CONTRACT. FAILURE TO SUBMIT WITHIN DEADLINE CONSTITUTES A GUARANTEE THAT ONLY THE BASE SPECIFIED PRODUCTS WILL BE SUPPLIED AND THAT NO OTHER PRODUCTS, WHETHER LISTED AS ALTERNATES OR NOT, WILL BE CONSIDERED.
  - CONTRACTOR TO PROVIDE A SUBMITTAL/SHOP DRAWING SUBMITTAL FOR EACH LIGHTING FIXTURE TYPE INCLUDING ACCESSORIES, BALLASTS(S), POWER SUPPLIES, DRIVERS(S) TRANSFORMER(S) AND INTEGRAL EMERGENCY BATTERIES AND TEST SWITCHES. ANY LIGHTING FIXTURE SUBMITTAL PROVIDED WITHOUT SPECIFIC LIGHTING FIXTURE'S ACCESSORIES, BALLAST, POWER SUPPLY, DRIVER, TRANSFORMER OR BATTERY INFORMATION SHALL BE REJECTED AS INCOMPLETE.
  - SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LIGHTING FIXTURE SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE FOLLOWING ITEMS.
    - A COMPLETE AND OPERATING SAMPLE, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG.
    - A COMPLETE PHOTOMETRIC REPORT, FOR THE PROPOSED SUBSTITUTE PRODUCT, USING THE SPECIFIED LAMP OR LED TYPE AND WATTAGE, INCLUDING TABULATED CANDLEPOWER VALUES, COEFFICIENT OF UTILIZATION, AND AN ISO-FOOT-CANDLE DIAGRAM. PROXATED DATA WILL NOT BE ACCEPTABLE. THE PHOTOMETRIC REPORT MUST BE DONE IN ACCORDANCE WITH PUBLISHED I.E.S. TESTING PROCEDURES AND CERTIFIED BY A REGISTERED ELECTRICAL ENGINEER.
    - A CURRENT ORIGINAL CATALOG DATA SHEET WITH LIGHTING FIXTURE CATALOG NUMBERS. MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE.
    - A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.
  - FOR SPECIFIC INTERIOR FIXTURE SUBSTITUTIONS, WHEN DIRECTED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE SPECIFIC INTERIOR AREA. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE, THE REPORT SHALL BE RUN IN BOTH NORMAL AND EMERGENCY MODES. THIS REPORT SHALL BE CONFIGURED WITH SPECIFIC CONSTRAINTS, AS DIRECTED BY THE ENGINEER OF RECORD. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS OF THE SPECIFIED PRODUCT.
  - FOR ALL EXTERIOR FIXTURE SUBSTITUTIONS, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE ENTIRE SITE PLAN BASED ON USING THE PROPOSED ALTERNATIVE FIXTURES. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO, OR BETTER THAN THE LIGHTING LEVELS AND UNIFORMITY RATIOS (MAX:MIN AND AVG:MIN) OF THE SPECIFIED PRODUCT. THIS REPORT SHALL BE CONFIGURED WITH THE FOLLOWING CONSTRAINTS.
    - THE SPACING INCREMENT OR POINTS ON THE VERIFICATION REPORT SHALL NOT EXCEED TEN (10) FEET IN EITHER DIRECTION.
    - THE PHOTOMETRIC CALCULATION SHALL BE BASED ON PROVIDING MAINTAINED FOOT-CANDLE LEVELS USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR, AS DIRECTED BY THE ENGINEER OF RECORD.
    - THE PHOTOMETRIC CALCULATION SHALL SHOW ANY ADDITIONAL ENERGY AND/OR ENERGY COSTS, FOR A TEN YEAR PERIOD, AS COMPARED TO THE ORIGINALLY SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.
  - CONFLICTS BETWEEN CATALOG NUMBERS AND LIGHTING FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT PRIOR TO BID TIME FOR CLARIFICATION.
  - FIXTURE FINISHES:
    - ALL FIXTURE FINISHES AND COLORS, UNLESS NOTED AS CUSTOM, SHALL BE SELECTED FROM THE MANUFACTURERS STANDARD COLOR OPTIONS AS LISTED ON THE FIXTURE SPECIFICATION SHEET. STANDARD FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.
    - ALL FIXTURES INDICATED WITH A PREMIUM OR CUSTOM COLOR SHALL BE ASSIGNED A CUSTOM COLOR REFERENCE NUMBER (SUCH AS RAL#) OR PROVIDE FIVE (5) PAINT CHIPS FOR MANUFACTURER TO USE TO MATCH COLOR. PREMIUM OR CUSTOM FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

- [OPTION?] IN THE LIGHTING FIXTURE MODEL NUMBER INDICATE A FIXTURE OPTION THAT THE CONTRACTOR MUST IDENTIFY PRIOR TO ORDERING/PROVIDING SUBMITTALS, INCLUDING, BUT NOT LIMITED TO: VOLTAGE, MOUNTING CONDITION/HARDWARE, FINISH, DIMMING REQUIREMENTS/BALLAST INFORMATION.
    - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL HANGERS, CLIPS AND NECESSARY HARDWARE TO INSTALL THE FIXTURE IN THE ENVIRONMENT AS SHOWN ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED CODES.
    - VOLTAGES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING - SEE ELECTRICAL DRAWINGS FOR BRANCH CIRCUIT INFORMATION. IT IS POSSIBLE THAT FIXTURES WILL BE REQUIRED IN VARIOUS VOLTAGES
  - "NO KNOWN EQUAL" LIGHTING FIXTURE PRICING/BIDDING NOTES:
    - EACH FIXTURE IDENTIFIED AS "NO KNOWN EQUAL" ON THIS PROJECT SHALL BE BID IN A "LINE ITEM" FORMAT. A PER UNIT MATERIAL COST SHALL BE PROVIDED FOR EACH "NO KNOWN EQUAL" FIXTURE. THIS PRICE SHALL INCLUDE LAMPS AS WELL AS ALL OTHER REQUIRED MATERIALS REQUIRED FOR INSTALLATION. THE FIXTURE PRICE QUOTED WILL BE UTILIZED, PRIOR TO SHOP DRAWING APPROVAL, FOR "ADDING" AND/OR "DELETING" ANY QUANTITY OF THE FIXTURE.
    - A UNIT COST SHALL BE SUBMITTED FOR EACH "NO KNOWN EQUAL" FIXTURE. SUBMIT THE PRICING AS PART OF THE BID FORM ON A SEPARATE 8 1/2" X 11" SHEET.
    - FAILURE TO SUBMIT A LINE ITEM FOR EACH "NO KNOWN EQUAL" FIXTURE MAY RESULT IN THE REJECTION, REFUSAL, OR NON-ACCEPTANCE OF THE CONTRACTOR'S BID.
  - FIXTURES IDENTIFIED AS "NO KNOWN EQUAL - OWNER STANDARD" OR "CAMPUS STANDARD" ARE TO BE PROVIDED AS SPECIFIED, WITH SUBSTITUTIONS STRICTLY PROHIBITED. SEE ADDITIONAL NOTES FOR "NO KNOWN EQUAL" BIDDING REQUIREMENTS.
- D. LIGHTING FIXTURE SPECIFICATIONS:**
- ALL EXTERIOR LIGHTING EQUIPMENT SHALL BE RATED FOR WET LOCATION AND THE IP RATING OF ALL EQUIPMENT, INCLUDING BALLAST, POWER SUPPLY AND TRANSFORMER ENCLOSURES SHALL CONFORM TO THE CONDITIONS IN WHICH THE LIGHTING FIXTURE IS MOUNTED.
  - ALL BALLASTS, POWER SUPPLIES, DRIVERS AND/OR TRANSFORMERS THAT ARE REMOTELY LOCATED SHALL BE INSTALLED AS NEAR TO THE LIGHTING FIXTURE(S) AS POSSIBLE, HIDDEN FROM PUBLIC VIEW IN AN ACCESSIBLE COMPARTMENT THAT IS WELL VENTILATED. CONTRACTOR TO COORDINATE LOCATION(S) WITH ARCHITECT PRIOR TO ROUGH-IN.
  - ALL TRANSFORMERS SHALL BE FUSED ON THE SECONDARY SIDE.
  - COLOR FILTERS SHALL BE GLASS OR DICHROIC UNLESS OTHERWISE INDICATED ON DRAWINGS.
  - CONTRACTOR TO PROVIDE 20% ADDITIONAL COLOR FILTERS FOR EACH COLOR AND SIZE.
  - CONTRACTOR TO VERIFY THAT ALL LIGHTING FIXTURES SPECIFIED WITH A COLOR FILTER ARE SUPPLIED WITH ANY AND ALL ATTACHMENT DEVICES FOR THE FILTER.
  - ALL TRACK LIGHTING FIXTURES SHALL BE PROVIDED WITH THE APPROPRIATE TRACK SYSTEM WHICH SHALL INCLUDE ALL MISCELLANEOUS COMPONENTS REQUIRED, AS WELL AS ANY REQUIRED CIRCUIT LIMITERS FOR A COMPLETE INSTALLATION. TRACK LENGTH(S) SHALL BE PER DRAWINGS.
- E. DRIVERS / TRANSFORMERS:**
- [OPTION?] IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURE DRIVER TYPE AND QUANTITY MUST BE VERIFIED BY THE CONTRACTOR - USING FIXTURE CALLOUT INFORMATION AND FIXTURE SWITCHING CONFIGURATION INFORMATION.
  - CONTINUOUS DIMMING AND CONTROLLABLE LED:
    - PROVIDE CONTROLLABLE LED DIMMING DRIVERS (INTEGRAL OR REMOTE) WITH POWER FACTOR GREATER THAN 0.85 AND MAXIMUM THD OF 20% AT FULL LOAD.
    - PRIOR TO BID CONTRACTOR TO VERIFY DRIVER COMPATIBILITY WITH DIMMERS, DIMMING CONTROL SYSTEM(S) AND LIGHTING CONTROL SYSTEM(S) WITH RESPECTIVE LIGHTING MANUFACTURER(S) AND LIGHTING/DIMMING CONTROL SYSTEM MANUFACTURERS. IF COMPATIBILITY DOCUMENTATION IS UNAVAILABLE FOR A GIVEN LED FIXTURE/LIGHTING CONTROL SYSTEM COMBINATION, CONTRACTOR SHALL INCLUDE COSTS IN THE BASE BID FOR RESPECTIVE LIGHTING MANUFACTURER AND LIGHTING CONTROLS MANUFACTURER TO TEST/WARRANT COMPATIBILITY OF SAID COMBINATIONS.
    - CONTINUOUS LED DIMMING DRIVERS SHALL BE AT MINIMUM 4-WIRE 0-10V 10% DIMMING (HOT, NEUTRAL, DIM+, DIM-). THE FIXTURE PART NUMBER SHOULD INDICATE THE TYPE OF DIMMING PROTOCOL REQUIRED.
    - THE FIXTURE PART NUMBER SHOULD INDICATE THE TYPE OF DIMMING PROTOCOL REQUIRED.
- F. EMERGENCY FIXTURES / BATTERY PACKS:**
- LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS:
    - INTEGRAL BATTERY PACK (EB):
      - 3a/3EB - FIXTURE CONNECTED TO CIRCUIT "3", CONTROL SWITCHLEG "a" - WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".
      - 3N/3EB - FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "3". BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".
    - REMOTE BACK-UP SOURCE (EM):
      - 3a/3EM - ROUTED THROUGH A UL LISTED TRANSFER RELAY (LC & D #0R-2001E/S) FOR SWITCHED CONTROLS OR A UL LISTED TRANSFER SWITCH (BODINE #GID SERIES DEVICE) FOR DIMMING CONTROLS. CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS FOR DEVICE REQUIREMENTS WHEN CONTROLLED BY OCCUPANCY SENSORS.
      - 3N/3EM - FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3".
    - REMOTE BACK-UP SOURCE (EM) NOTES:
      - ALL REMOTE BACK UP SOURCE (EM) FIXTURES SHALL BE PROVIDED WITH AN IN LINE FUSE. PROVIDE ADDITIONAL LABELING TO INDICATE FIXTURE IS PROTECTED BY A FUSE.
  - EMERGENCY BATTERY PACK NOTES:
    - PROVIDE INTEGRAL TEST SWITCH OPTION FOR ALL EMERGENCY BATTERY PACKS INSTALLED IN LIGHT FIXTURES.
    - ALL RECESSED DOWNLIGHTS SUPPLIED WITH A BATTERY PACK SHALL BE PROVIDED WITH AN INTEGRAL COMBINATION TEST SWITCH / CHARGING INDICATOR LIGHT - MOUNTED INSIDE THE REFLECTOR. REMOTE TEST SWITCH / CHARGING LIGHTS ARE NOT ALLOWED. THE TEST SWITCH / CHARGING INDICATOR LIGHT SHALL BE SECURELY ATTACHED TO THE REFLECTOR WITH 18" OF SLACK LEADS, FOR EASY REMOVAL OF THE REFLECTOR ASSEMBLY.
    - BATTERY PACKS ALL SHALL BE PROVIDED WITH A COMBINATION TEST SWITCH / CHARGE LIGHT.
    - CONTRACTOR TO VERIFY WITH FIXTURE MANUFACTURER(S) PRIOR TO BID THAT EMERGENCY BATTERY PACKS ARE INTEGRAL TO FIXTURE HOUSINGS.
    - SHOULD THE SPECIFIED LED EMERGENCY BATTERY PACK(S) NOT FIT WITHIN A GIVEN FIXTURE(S), CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO LOCATE/CONNECT SELF-TESTING MINI INVERTER(S) (OTA #ILS SERIES OF BODINE#ELI-S-[WATT?]) REMOTELY FROM THE FIXTURE(S) IN THE NEAREST ELECTRICAL ROOM OR TO LOCATE EMERGENCY BATTERY PACK(S) REMOTELY FROM THE FIXTURE ABOVE THE NEAREST ACCESSIBLE CEILING.
    - EMERGENCY OPERATION OF LED FIXTURE FOR A MINIMUM OF 90 MINUTES, AND A MINIMUM OF 10 WATTS, OR AS SPECIFIED, ACCEPTABLE MANUFACTURERS: BODINE OR IOTA.
    - TO MAINTAIN UL LISTING OF LED FIXTURE, FIXTURE MANUFACTURER(S) SHALL INSTALL LED EMERGENCY BATTERY PACKS AT THE FACTORY AND OBTAIN A UL LISTING FOR THE FIXTURE WITH EMERGENCY BATTERY PACK. FIELD-INSTALLATION OF LED EMERGENCY BATTERY PACK(S) IS PROHIBITED.
    - PROVIDE "DL" OPTION IN ALL DAMP LABEL INSTALLATIONS.

LIGHTING FIXTURE SCHEDULE					
SYMBOL	TYPE	MANUFACTURER AND MODEL NUMBER	FIXTURE VOLTAGE	LAMP / LAMP OPTION	GENERAL DESCRIPTION
	1	BIRCHWOOD LIGHTING BRA-LED-SL0-35-4-FW-277-EB-D10-5M EQUIVALENT BY:	4.5W/FT	LED/3500°K	SURFACE MOUNTED 4" LED STRIP LIGHT. WET LOCATION LISTED. 3500K. FROSTED WHITE LENS. 277V. 0-10V DIMMING. 489 LM/FT. HEAVY GAUGE ALUMINUM HOUSING. MATCH EXISTING FIXTURE CONFIGURATION.
SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR CRITICAL FIXTURE SPECIFICATION AND ORDERING INFORMATION.					

**pinham architects**  
 LICENSED ARCHITECT  
 THOMAS W. HUGHES  
 Lic # C15585  
 02/21  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 THOMAS W. HUGHES  
 No. F15610  
 12/2019  
 ELECTRICAL  
 STATE OF CALIFORNIA  
 IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 04 119 036  
 ACS 21 PLS 1/18/20  
 DATE JAN 20 2020  
**PINACATE MIDDLE SCHOOL SHADE STRUCTURE**  
**PERRIS UNION HIGH SCHOOL DISTRICT**  
 LIGHTING FIXTURE SCHEDULE  
 E-4.1

OC Office: 24461 Ridge Route Drive #100, Laguna Hills, CA 92653  
 OC Phone: 949.496.6191  
 SD Office: 804 Pier View Way #103, Oceanside, CA 92054  
 SD Phone: 760.730.5527  
 LA Office: 837 Tractor Avenue, #410, Los Angeles, CA 90013  
 LA Phone: 213.278.0172  
 Web: pihm.com

**STATE OF CALIFORNIA**  
**Outdoor Lighting**  
 NRC-170 (Event 9/13) CALIFORNIA ENERGY COMMISSION NRC-170-E

**CERTIFICATE OF COMPLIANCE**  
 Project Name: Pinnacle MS Shade Structure Report Page: Page of  
 Project Address: 1990 S A St Date Prepared: 1/22/2020

01		02	03	04	05	06		07	08	09	10	
Area Description		Specific Area Type per Table 1.60.2.B	CALCULATED ALLOWANCE (Watts)		Extra Allowance (Watts)	Luminaire Name or Item Tag		Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)	
			1,620	0.408	660.959986	Type 1		18	6	108		108
<b>Total Allowance (Watts) All Areas: 108</b>												

**I. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
 This Section Does Not Apply

**II. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
 This Section Does Not Apply

**G. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/010004/2015standards/forms>

YES	NO	Form/Title	Field Inspector	
Pass	Fail		Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-170-01-E - Must be submitted for all buildings.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-170-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be programmed for compliance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**H. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/010004/2015standards/forms>

YES	NO	Form/Title	Field Inspector	
Pass	Fail		Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-170-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to a 20 luminaire.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/010004/2016standards> September 2017

**STATE OF CALIFORNIA**  
**Outdoor Lighting**  
 NRC-170 (Event 9/13) CALIFORNIA ENERGY COMMISSION NRC-170-E

**CERTIFICATE OF COMPLIANCE**  
 Project Name: Pinnacle MS Shade Structure Report Page: Page of  
 Project Address: 1990 S A St Date Prepared: 1/22/2020

**G. CUTOFF REQUIREMENTS (BUG)**  
 This Section Does Not Apply

**H. OUTDOOR LIGHTING CONTROLS**  
 This Section Does Not Apply

**I. OUTDOOR LIGHTING CONTROLS**  
 Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alterations projects, luminaires which are existing to remain (ie unswitched) and luminaires which are removed or retrofitted (twink only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a "1" is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt\* from the dropdown list to indicate not applicable or an exemption.

01		02	03	04	05	06	07	08
Area Description		Motion Sensor: Infrared or PIR (\$130.261)	Shut-Off (\$130.261)	Auto-Schedule (\$130.261)	Motion Sensor (\$130.261)	Sales Frontage (\$130.261)	Public, Ornament, Outdoor Dining (\$130.261)	Field Inspector
		Yes	Photocell	Yes	Yes	NA, No Sales Front Lit	No Applicable Lit	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail

\*NOTES: Controls with a "1" require a note in the space below explaining how compliance is achieved.  
 \*X: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.261.

**J. LIGHTING POWER ALLOWANCE (per §140.7)**  
 This Section Does Not Apply

**K. LIGHTING POWER ALLOWANCE (per §140.7)**  
 Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardship Allowance is per Table 1.60.2.A, while "Use it or lose it" Allowances are per Table 1.60.2.B. Indenture which allowances are being used to provide 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.

01		"Use it or lose it" Allowance (Watts)						
Area Description		General Hardship Allowance	Per Application	Sales Frontage	Ornamental	Per Specific Area	Table L	Table M
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Table L	Table M

Table Continued

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/010004/2016standards> September 2017

**STATE OF CALIFORNIA**  
**Outdoor Lighting**  
 NRC-170 (Event 9/13) CALIFORNIA ENERGY COMMISSION NRC-170-E

**CERTIFICATE OF COMPLIANCE**  
 Project Name: Pinnacle MS Shade Structure Report Page: Page of  
 Project Address: 1990 S A St Date Prepared: 1/22/2020

**DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT**  
 Documentation Author Name: tksc Documentation Author Signature: [Signature]  
 Company: tksc Signature Date: 1/22/2020  
 Address: 15291 Laguna Canyon Road, Suite 100 CSA/HERS Certification Identification (if applicable):  
 City/State/Zip: Irvine, CA 92618 Phone: 949-751-5800

**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 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: Raymond Swartz Responsible Designer Signature: [Signature]  
 Company: TKISC Date Signed: 1/22/2020  
 Address: 11870 Pierce Street Suite 160 License: E15610  
 City/State/Zip: Riverside, CA 92505 Phone: 951-299-4160

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/010004/2016standards> September 2017

**STATE OF CALIFORNIA**  
**Outdoor Lighting**  
 NRC-170 (Event 9/13) CALIFORNIA ENERGY COMMISSION NRC-170-E

**CERTIFICATE OF COMPLIANCE**  
 Project Name: Pinnacle MS Shade Structure Report Page: Page of  
 Project Address: 1990 S A St Date Prepared: 1/22/2020

Calculated General Hardship Lighting Power Allowance per Table 1.60.2.A

01		02	03	04	05	06	07	08	09
Area Description		Area Type	Area (sq ft)	Allowed Density (W/ft <sup>2</sup> )	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General Allowance (Watts) AWA + LWA
			1,620	0.408	660.959986		0.35	0	660.959986

Initial Wattage Allowance for Entire Site (Watts): 520  
 Total General Hardship Allowance (Watts): 520

**J. LIGHTING ALLOWANCE: PER APPLICATION**  
 This Section Does Not Apply

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**  
 This Section Does Not Apply

**L. LIGHTING ALLOWANCE: ORNAMENTAL**  
 This Section Does Not Apply

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**  
 This Section Does Not Apply

**N. LIGHTING ALLOWANCE: PER SPECIFIC AREA**  
 Table Instructions: Please complete this table for areas using the wattage allowance per specific area type from Table 1.60.2.B. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01		02	03	04	05	06		07	08	09	10	
Area Description		Specific Area Type per Table 1.60.2.B	Specific Area (sq ft)	Allowed Density (W/ft <sup>2</sup> )	Extra Allowance (Watts)	Luminaire Name or Item Tag		Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)	
		Non-sales Canopies/Tunnels	1,620	0.408	660.959986	Type 1		18	6	108		108

Table Continued

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/010004/2016standards> September 2017

**STATE OF CALIFORNIA**  
**Outdoor Lighting**  
 NRC-170 (Event 9/13) CALIFORNIA ENERGY COMMISSION NRC-170-E

**CERTIFICATE OF COMPLIANCE**  
 Project Name: Pinnacle MS Shade Structure Report Page: Page of  
 Project Address: 1990 S A St Date Prepared: 1/22/2020

**A. GENERAL INFORMATION**  
 01 Project Location (City): Perris 04 Total Illuminated Hardship Area (ft<sup>2</sup>): 0  
 02 Climate Zone: 10  
 03 Outdoor Lighting Zone per Title 24, Part 1 §130.134 or as designated by Authority Having Jurisdiction (AHJ):  
 L2-0: Very Low - Undeveloped Parkland  L2-2: Moderate - Rural Areas  L2-4: High - Must be reviewed by CA Energy Commission for Approval  
 L2-1: Low - Developed Parkland  L2-3: Moderately High - Urban Areas

**B. PROJECT SCOPE**  
 Table Instructions: Complete this table demonstrating compliance with requirements in §140.7 and §141.03(a), for outdoor lighting scopes using the prescriptive path outlined in §140.7 or §141.03(a), for alterations.  
 My project consists of:  
 New Lighting System Must Comply with Allowances from §140.7.  
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)?  Yes  No  
 F07/F07EX: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

**C. COMPLIANCE RESULTS**  
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D, for guidance.

01		02		03		04		05		06		07		08		09	
General Hardship Allowance (\$140.7(a))		Per Application (\$140.7(a))		Sales Frontage (\$140.7(a))		Ornamental (\$140.7(a))		Per Specific Area (\$140.7(b))		Existing Power (\$141.03(a))		Total Allowed (Watts)		Total Actual (Watts)		Must Be 08	
520		520		520		520		520		520		520		520		COMPLIES	
																COMPLIES	

Controls Compliance (See Table G for Details): COMPLIES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/010004/2016standards> September 2017

**STATE OF CALIFORNIA**  
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**D. EXCEPTIONAL CONDITIONS**  
 This table is to be completed with verifiable comments because of selections made or data entered in tables throughout the form.  
 No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**  
 This Section Does Not Apply

**G. OUTDOOR LIGHTING FIXTURE SCHEDULE**  
 Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (a) Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.03(a), (a) Table II has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire	How Wattage is Determined	Total number of Luminaires	Luminaire Status	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 150W §140.2(a)	Field Inspector	
Pass	Fail								Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Type 1	Type 1 Strip LED	18	Mfg. Spec	6	108	None	<input checked="" type="checkbox"/>	<input type="checkbox"/>
							Total Designated Watts:	108		

\*NOTES: Selections with a "\*" require a note in the space below explaining how compliance is achieved.  
 \*X: Luminaire is lighting a status; EXCEPTION 2 to §130.261.

**F07/F07EX:** Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §140.7(a).  
 \*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" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing/Reinstated" for existing luminaires which are being removed and reinstated as part of the project scope.  
 \*Compliance with mandatory cutoff requirements is required for luminaires with wattage > 150 Watts unless exempted by §130.261.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/010004/2016standards> September 2017

**TITLE 24 PROCEDURES FOR TESTING AND ADJUSTING**

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 13.2.2.

LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LT1-02-A DOCUMENTS.

AUTOMATIC DAYLIGHT CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LT1-03-A DOCUMENTS.

DEMAND RESPONSE LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LT1-04-A DOCUMENTS.

INSTITUTIONAL TUNING PAF ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LT1-05-A DOCUMENTS.

OUTDOOR LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LT1-02-A DOCUMENTS.

ALL LIGHTING CONTROLS TESTING AND ADJUSTING DOCUMENTS NOTED ABOVE ARE AVAILABLE FROM THE CALIFORNIA ENERGY COMMISSION WEB SITE AT:  
<https://ww2.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCA/>

**TITLE 24 GENERAL NOTE**

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 13.2.2.

SEE STATE OF CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 10-103(a)3A AND 10-103(a)3B AND SECTION 130.4 FOR MORE INFORMATION.

SEE STATE OF CALIFORNIA 2014 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL CHAPTER 13 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

SEE STATE OF CALIFORNIA 2014 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL COMPLIANCE MANUAL CHAPTER 2 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

PROVIDE COMPLETED INSTALLATION CERTIFICATE(S) AND CERTIFICATE(S) OF ACCEPTANCE AS REQUIRED TO THE SATISFACTION OF THE ENFORCEMENT AGENCY.

**pjhm architects**

11870 Pierce Street, Suite 160  
 Riverside, California 92505  
 951.299.4160 www.tksc.com

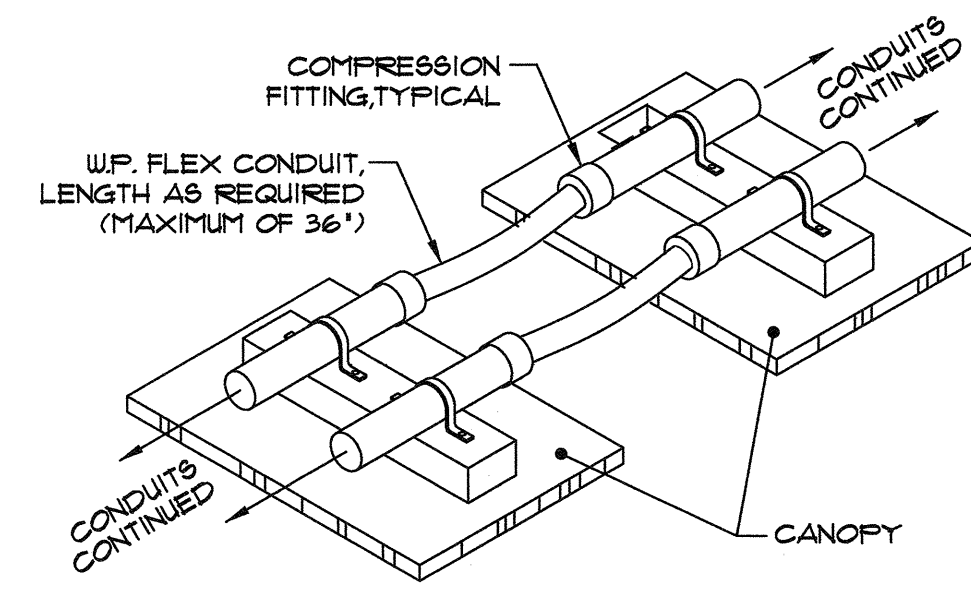
Raymond W. Swartz  
 LICENSED ARCHITECT  
 LICENSE # C15585  
 STATE OF CALIFORNIA  
 02/21  
 Raymond W. Swartz  
 LICENSED PROFESSIONAL ENGINEER  
 LICENSE # E15610  
 STATE OF CALIFORNIA

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 04 119 03 G  
 ACS 52 FL 1 MAY 55 CSC  
 DATE JAN 3 0 2020

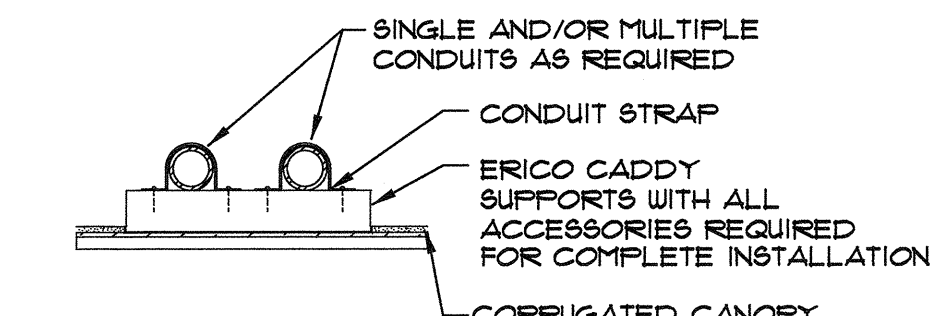
PINACATE MIDDLE SCHOOL SHADE STRUCTURE

PERRIS UNION HIGH SCHOOL DISTRICT

LA Office: 337 Traction Avenue, #410, Los Angeles, CA 90013  
 LA Office: 804 Pier View Way #103, Oceanside, CA 92054  
 SD Office: 24461 Ridge Route Drive #100, Laguna Hills, CA 92653  
 SD Phone: 760.730.5527  
 LA Phone: 213.278.0172  
 Web: pjhm.com



**ISOMETRIC VIEW**



NOTE: SECURE SUPPORTS AS RECOMMENDED BY MANUFACTURER ONLY. DO NOT PENETRATE CANOPY MATERIAL.

**ELEVATION VIEW**

**CONDUIT OVER SEISMIC JOINT ON CANOPY DETAIL**

SCALE: N.T.S.

1

DETAILS

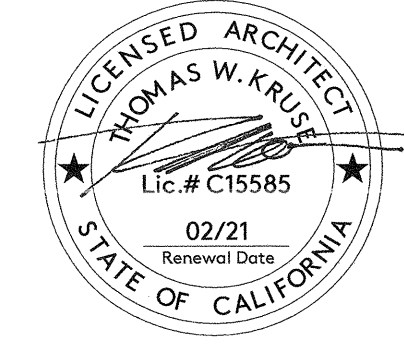
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PINACATE MIDDLE SCHOOL SHADE STRUCTURE

PERRIS UNION HIGH SCHOOL DISTRICT

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 04 119 036  
 ACS *W.A.M.* SS *CSL*  
 DATE JAN 3 0 2020

**tksc**  
 COLLABORATIVE  
 11870 Plena Street, Suite 100  
 Riverside, California 92505  
 951.299.4190 www.tksc.com  
 Nicolas Bruno - Electrical  
 tksc Job #: 2020-0038



**pjhm**  
 architects









**EXAMPLE FORM DSA 103**

Note: 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 sheet.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

TEST OR SPECIAL INSPECTION TYPE PERFORMED BY CODE REFERENCE AND NOTES

**SOILS**

1. GENERAL: Table 1705A.6  
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, and  
• materials below footings are adequate to achieve the design bearing capacity.

2. COMPACTED FILLS: Table 1705A.6  
a. Perform classification and testing of fill materials.  
b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.  
c. Test compaction of fill.

3. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Table 1705A.8  
a. Inspect drilling operations and maintain complete and accurate records for each pier.  
b. Confirm pier locations, diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.  
c. Confirm adequate end strata bearing capacity.

CONCRETE

7. CAST IN PLACE CONCRETE  
Material Verification and Testing:  
a. Verify use of required design mix.  
b. Identify, sample, and test reinforcing steel.  
c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.  
d. Test concrete (f<sub>c</sub>).

INSPECTION:  
e. Batch plant inspection:  Continuous  Periodic

MASONRY

STEEL, ALUMINUM

17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES  
Material Verification:  
a. Verify identification of all materials and:  
• Mill certificates indicate material properties that comply with requirements.  
• Material sizes, types and grades comply with requirements.  
b. Test unidentified materials.  
c. Examine seam welds of HSS shapes.

INSPECTION:  
e. Verify and document steel fabrication per DSA approved construction documents.

HIGH STRENGTH BOLTS: RCSC 2009  
a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.  
b. Test high-strength bolts, nuts and washers.

INSPECTION OF HIGH-STRENGTH BOLT INSTALLATION:  
c. Bearing-type ("snug tight") connections.

WELDING:  
Verification of Materials, Equipment, Welders, etc:  
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.  
b. Verify weld filler material manufacturer's certificate of compliance.  
c. Verify WPS, welder qualifications and equipment.

SHOP WELDING:  
a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plus and slot welds.  
b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.

ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:  
a. Anchor Bolts and Anchor Rods

WOOD

OTHER

List of required verified report(s):  
1 Soils testing and inspection: Geotechnical Verified Report - Form DSA-293  
2 All Structural Testing: Laboratory Verified Report - Form DSA-291  
3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292  
4 Shop/Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292  
5 HS Bolt Installation Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

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

Exemptions/Waivers for Special inspection and Structural Testing  
1. Per 1910A.2, tests of reinforcing bars may be waived provided certified mill test reports are provided for each shipment of such reinforcement.  
2. Per DSA-103 Appendix, concrete batch plant inspection is not required provided that the licensed weighmaster and batch ticket requirements of 1705A.3.3.2 are implemented.

**2016 CBC PC STRUCTURAL DESIGN NOTES**

DESCRIPTION	DESIGN VALUES
<b>DEAD AND LIVE LOADS</b>	
ROOF LIVE LOAD (L <sub>r</sub> )	20 PSF
ROOF DEAD LOAD (D)	5 PSF
<b>SOILS AND GEOHAZARDS</b>	
ALLOWABLE VERTICAL BEARING PRESSURE	1500 PSF
ADJACENT SLOPE MINIMUM SETBACK LIMITS (CBC 1805A.7)	15' MIN. FROM FACE OF FOOTING TO TOE OF SLOPE. 40' MIN FROM FACE OF FOOTING TO TOP OF SLOPE.
SITE CLASS	D
SITE CLASS F OR LIQUEFIABLE SOIL HAZARD	IF STRUCTURE IS LOCATED IN SITE CLASS F OR AN AREA WITH LIQUEFIABLE SOIL, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED.
<b>ROOF SNOW LOAD</b>	
GROUND SNOW LOAD (P <sub>g</sub> )	22 PSF
SLOPED ROOF SNOW LOAD (P <sub>s</sub> )	20 PSF
SNOW EXPOSURE FACTOR (C <sub>e</sub> )	1.1
SNOW IMPORTANCE FACTOR (I)	1.0
THERMAL FACTOR (C <sub>t</sub> )	1.2
MINIMUM SEPARATION FROM TALLER, ADJACENT STRUCTURES (IN SNOW REGIONS ONLY)	2'-0"
<b>FLOOD DESIGN</b>	
WHEN THE SITE-SPECIFIC REGION IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PRE-CHECK PLANS.	
<b>WIND DESIGN</b>	
ULTIMATE DESIGN WIND SPEED (Vult)	120 MPH
WIND EXPOSURE FACTOR	C
TOPOGRAPHIC FACTOR (K <sub>zt</sub> )	1.0
ASCE 7-10 WIND ANALYSIS METHOD	CHAPTER 27 DIRECTIONAL PROCEDURE
VELOCITY PRESSURE EXPOSURE COEFFICIENT (K <sub>c</sub> )	0.85
NET PRESSURE COEFFICIENT	VARIES, SEE CALCULATIONS
WIND DIRECTIONALITY FACTOR (K <sub>d</sub> )	0.85
WIND VELOCITY PRESSURE (q <sub>h</sub> )	26.6 PSF
<b>SEISMIC DESIGN</b>	
TRANSVERSE LATERAL FORCE RESISTING SYSTEM	STEEL ORDINARY MOMENT RESISTING FRAMES
LONGITUDINAL LATERAL FORCE RESISTING SYSTEM	STEEL ORDINARY CANTILEVER COLUMNS
ASCE 7-10 ANALYSIS PROCEDURE	SECTION 12.6 EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY	E
SEISMIC IMPORTANCE FACTOR	1.0
TRANSVERSE DESIGN BASE SHEAR (V)	805 # PER COLUMN
LONGITUDINAL DESIGN BASE SHEAR (V)	1676 # PER COLUMN
TRANSVERSE SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> )	0.48
LONGITUDINAL SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> )	1.33
TRANSVERSE RESPONSE MODIFICATION FACTOR (R)	3.5
LONGITUDINAL RESPONSE MODIFICATION FACTOR (R)	1.25
TRANSVERSE SYSTEM OVERSTRENGTH FACTOR (Q <sub>s</sub> )	3.0
LONGITUDINAL SYSTEM OVERSTRENGTH FACTOR (Q <sub>s</sub> )	1.25
TRANSVERSE DEFLECTION AMPLIFICATION FACTOR (C <sub>d</sub> )	3.0
LONGITUDINAL DEFLECTION AMPLIFICATION FACTOR (C <sub>d</sub> )	1.25
SITE CLASS	D
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (S <sub>s</sub> )	2.5
SHORT PERIOD SITE COEFFICIENT (F <sub>a</sub> )	1.0
DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (S <sub>s1</sub> )	1.87
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S <sub>1</sub> )	1.25
LONG PERIOD SITE COEFFICIENT (F <sub>v</sub> )	1.5
DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S <sub>11</sub> )	1.25
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE

**BUILDING DATA**

CONSTRUCTION CLASSIFICATION	TYPE II-B
OCCUPANCY CLASSIFICATION	A-3
RISK CATEGORY	II
NUMBER OF STORIES	1
MINIMUM SEISMIC SEPARATION	10"
SLOPE SETBACKS	
FACE OF FOUNDATION TO TOE OF ASCENDING SLOPE:	15' MINIMUM.
FACE OF FOUNDATION TO TOP OF DESCENDING SLOPE:	40' MINIMUM.

**NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY**

- THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
- FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE, UNLESS NOTED OTHERWISE.
- FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM ROGER HYYTINEN'S RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORT FOR COMPLETED WORK.
- ROGER HYYTINEN WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
- IN THE EVENT THAT ROGER HYYTINEN IS REQUIRED TO PROVIDE STRUCTURAL OBSERVATION OF CONSTRUCTION, HE SHALL BE NOTIFIED IN WRITING PRIOR TO THIS REQUIREMENT BEING MADE. ALSO, HIS ANTICIPATED ADDITIONAL FEES FOR THIS ADDITIONAL WORK SHALL BE PAID IN ADVANCE, PRIOR TO ANY STRUCTURAL OBSERVATION OR CONSTRUCTION SERVICES BEING PERFORMED.

**GENERAL NOTES**

- SHELTER DESIGN**
  - THE STRUCTURAL DESIGN OF THE COMPONENTS AND CONNECTIONS OF THIS SHELTER ARE SUFFICIENT FOR EAVE HEIGHTS RANGING FROM 7 UP TO 12 TALL.
  - REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER.
  - THIS SHELTER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE DIRECTLY ATTACHED TO THE SHELTER, SUCH AS WALLS, INSECT MESH, OR SHADE SCREENS, SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.
- DESIGN AND CONSTRUCTION STANDARDS**
  - THE DESIGN OF THIS STRUCTURE IS IN CONFORMANCE WITH THE FOLLOWING STANDARDS AND ALL PHASES OF CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS.
    - 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC) ..... (PART 1, TITLE 24, CCR, EFFECTIVE JULY 1, 2014)
    - 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)
    - 2016 CALIFORNIA ELECTRICAL CODE ..... (PART 3, TITLE 24, CCR) (2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
    - 2016 CALIFORNIA MECHANICAL CODE (CMC) ..... (PART 4, TITLE 24, CCR) (2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
    - 2016 CALIFORNIA PLUMBING CODE (CPC) ..... (PART 5, TITLE 24, CCR) (2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
    - 2016 CALIFORNIA ENERGY CODE ..... (PART 6, TITLE 24, CCR, EFFECTIVE JULY 1, 2014)
    - 2016 CALIFORNIA FIRE CODE (CFC) ..... (PART 9, TITLE 24, CCR) (2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)
    - 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE ..... (PART 11, TITLE 24, CCR, EFFECTIVE JULY 1, 2014)
    - 2016 CALIFORNIA REFERENCED STANDARDS CODE ..... (PART 12, TITLE 24, CCR) (V. OF THE STATE ARCHITECT)
    - NFPA 12 - 2016
    - NFPA 72 - 2016
    - REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
      - 2016 CBC, CHAPTER 35
      - 2016 CFC, CHAPTER 80
  - CONSTRUCTION CHANGES
    - CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.
  - FOUNDATION**
    - THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELETERIOUS MATERIALS AND CAPABLE OF SUPPORTING 1500 PSF VERTICAL BEARING PRESSURE.
    - FOR LATERAL LOADING, THE FOUNDATION HAS BEEN DESIGNED TO THE MINIMUM LATERAL BEARING VALUE IN CBC TABLE 1805A.2. THIS IS 100 PSF AT LATERAL BEARING.
    - FOUNDATION DESIGN SHOWN IS BASED ON SOIL CONDITIONS GIVEN IN NOTES A AND B, ABOVE. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.
    - FOUNDATIONS HAVE NOT BEEN DESIGNED FOR LOCATIONS WITH LIQUEFIABLE SOIL.
  - CONCRETE**
    - CONCRETE MIX DESIGN SHALL UTILIZE TYPE V CEMENT AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. CONCRETE EXPOSED TO FREEZE AND THAW CYCLES SHALL BE AIR ENTRAINMENT PER ACI 318 SECTION 19.3.1.
    - REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615 GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4.
    - MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 1"
    - CONCRETE MIX DESIGN IN ACCORDANCE WITH CBC SECTION 19A SHALL BE PERFORMED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. THE CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONSTRUCTION.
    - THE MIX DESIGN SHALL MEET THE CRITERIA HEREIN AND SHALL BE PROPER FOR LOCAL CONDITIONS INCLUDING, BUT NOT LIMITED TO, FREEZING AND THAWING EXPOSURE, CHEMICAL AND SOIL CORROSIVITY WHERE SUCH PROBLEMS EXIST.
    - NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1080), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.
  - STRUCTURAL STEEL**
    - STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36, Fy = 36 ksi.
    - HOLLOW STRUCTURAL SECTION SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B, Fy = 46 ksi.
    - ALL STRUCTURAL STEEL SHALL BE IDENTIFIED BY MILL CERTIFICATE.
    - HIGH STRENGTH BOLTS (HSB) SHALL BE HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM) AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325-N. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PLUS AN ADDITIONAL HALF TURN.
    - ALL HIGH STRENGTH BOLTS SHALL HAVE CERTIFICATION.
    - WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
    - WELD ELECTRODES SHALL BE E70XX AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.8-6.3 FOR DEMAND CRITICAL WELDS.
    - ALL WELDING SHALL BE APPROVED BY AN AWS CERTIFIED INSPECTOR.
    - STRUCTURAL STEEL SHALL BE PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR APPROVED EQUIVALENT PAINT SYSTEM.
    - SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO HYYTINEN ENGINEERING FOR APPROVAL PRIOR TO FABRICATION.
    - ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16" U.N.O. BOLT HOLES FOR ANCHOR BOLTS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/8".
    - ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM).
  - ALUMINUM**
    - INTERLOCKING SEAM ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H36 AND SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS.
    - ALUMINUM ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED EQUAL.
    - EXTRUDED ALUMINUM RIDGE CAP SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.
    - EXTRUDED ALUMINUM RIDGE CAP, GUTTER, AND FASCIA SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TPO POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.
  - SCREWS**
    - SCREWS SHALL BE HILTI KWIK-PRO SELF DRILLING SCREWS WITH BOND SEAL WASHERS PER ICC ESR-2168 OR APPROVED EQUAL.
    - SCREWS ATTACHING TO STEEL SHALL BE 1/2" HEX WASHER HEAD (HW) #6 POINT SCREWS. SCREWS ATTACHING TO ALUMINUM SHALL BE 1/4" HEX WASHER HEAD (HW) #2 POINT SCREWS.
    - ALL SCREWS SHALL BE STAINLESS STEEL, TYPE 304 MINIMUM, OR COATED WITH HILTI KWIK-COTE OR APPROVED EQUAL.
    - THE MANUFACTURER SHALL PROVIDE A SCREW CERTIFICATION LETTER STATING THAT SCREWS PROVIDED MATCH THE SIZE AND TYPE SPECIFIED HEREIN. THE CERTIFICATION LETTER SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO INSTALLATION.
  - SHOP FABRICATION AND FIELD ASSEMBLY**
    - ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.
  - INSPECTION**
    - THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM INSPECTION OF THE CONSTRUCTION OF THIS PC IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17A OF THE 2016 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, C.C.R.) AND THE DIVISION OF THE STATE ARCHITECT.
    - THE OWNER SHALL EMPLOY A CLASS 2 (MINIMUM) PROJECT INSPECTOR, APPROVED BY DSA, FOR THE INSPECTION OF THE CONSTRUCTION OF THESE SHELTERS.
    - A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
  - FIRE LIFE SAFETY**
    - AN AUTOMATIC FIRE PROTECTION SYSTEM MAY BE REQUIRED FOR THIS BUILDING DEPENDING ON SITE SPECIFIC REQUIREMENTS. WHERE REQUIRED, THE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY OTHERS.
    - THE DESIGN OF THIS SHELTER IS CAPABLE OF SUPPORTING THE WEIGHT OF A FIRE SPRINKLER SYSTEM (1.5 PSF).
    - THE METAL ROOFING COMPLIES WITH FIRE CLASSIFICATION B. THIS SHELTER HAS NOT BEEN DESIGNED FOR PLACEMENT WITHIN ANY FIRE HAZARD SEVERITY ZONE.
  - PENETRATIONS**
    - NEITHER PIPING NOR CONDUIT ARE ALLOWED TO PENETRATE FOUNDATIONS, BASEPLATES, OR OTHER STRUCTURAL COMPONENTS.

**SITE SPECIFIC OPTIONS**

TO BE COMPLETED PRIOR TO PLAN CHECK SUBMITTAL

QUANTITY OF SHELTERS OF THIS PC AT THIS SITE: 1

SHELTER SIZE:  30'x42'  30'x54'

SHELTER EAVE HEIGHT (7 MIN, 12' MAX): 10'-0"

BUILDING AREA:  1260 SF  1620 SF

CONCRETE SLAB OR ASPHALT PAVING (BY OTHERS) OVER FOOTINGS?  YES  NO

ROOF DOWNSPOUTS?  YES  NO

ALUMINUM "V" PLUGS IN ROOF VOIDS FOR BIRD CONTROL?  YES  NO

SNOW REGION?  SNOW (P<sub>g</sub> ≤ 22 PSF)  NON-SNOW

**SHEET INDEX**

MT30.0 30' MERAMEC SHELTER DESIGN NOTES, EXAMPLE FORM DSA 103

MT30.1 30' MERAMEC SHELTER PLANS, SECTIONS AND DETAILS

APPL. NO.: 02-115731  
PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A separate project application for construction is required.

28 AUG 2018

HYYTINEN ENGINEERING LLC  
5458 Longley Lane, Suite B  
Reno, Nevada 89511  
(775) 826-3019 PHONE  
(775) 826-3076 FAX

REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
NO. 52752  
STATE OF CALIFORNIA  
Exp. 12-31-20

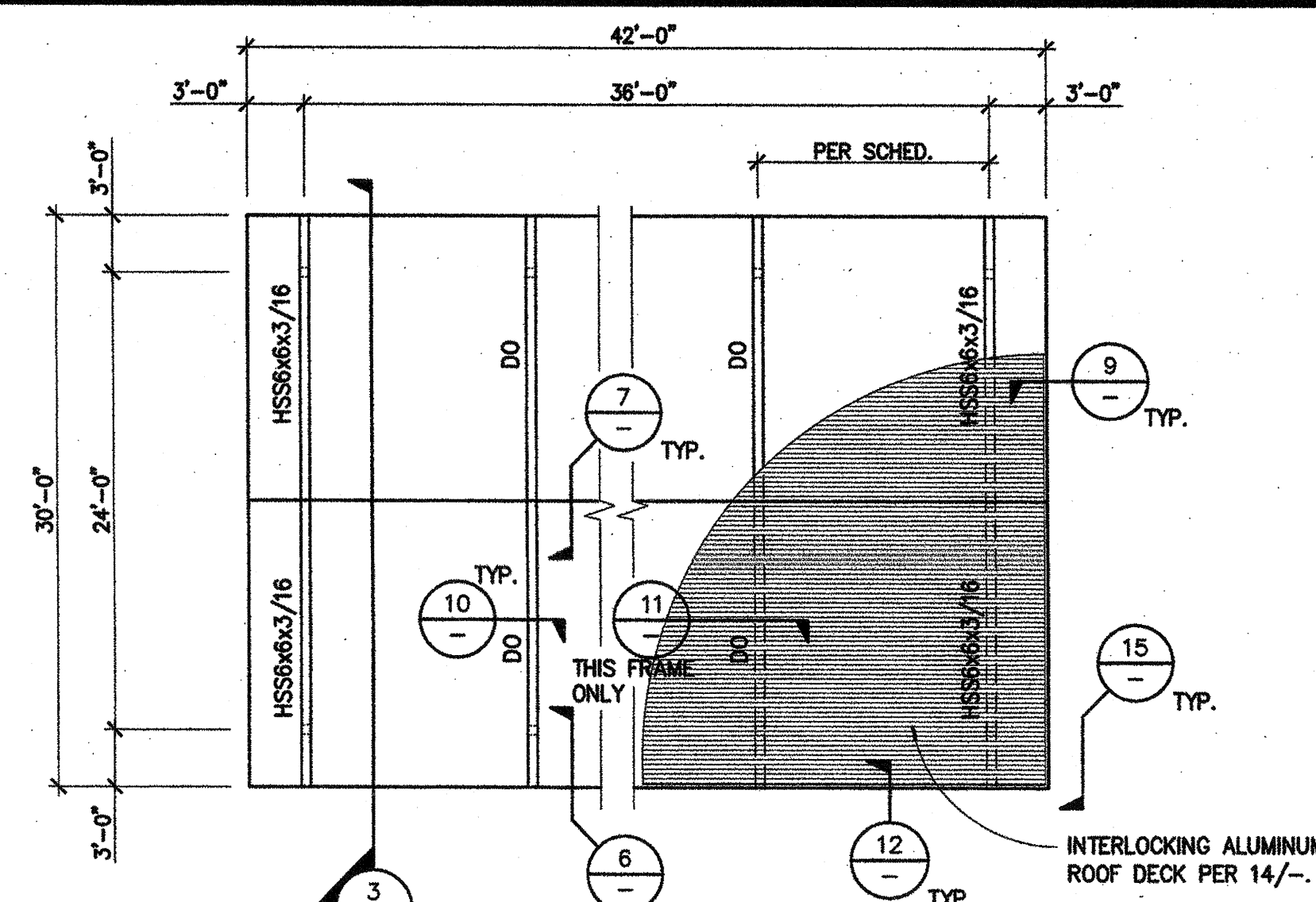
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
NO. 52719  
STATE OF CALIFORNIA  
Exp. 12-31-20

PROJECT:  
30' MERAMEC SHELTERS  
(SEISMIC S<sub>s</sub> = 2.5)  
AMERICANA BUILDING PRODUCTS  
#2 Industrial Dr. - Salem, IL 62881  
(800)851-0865 www.americana.com

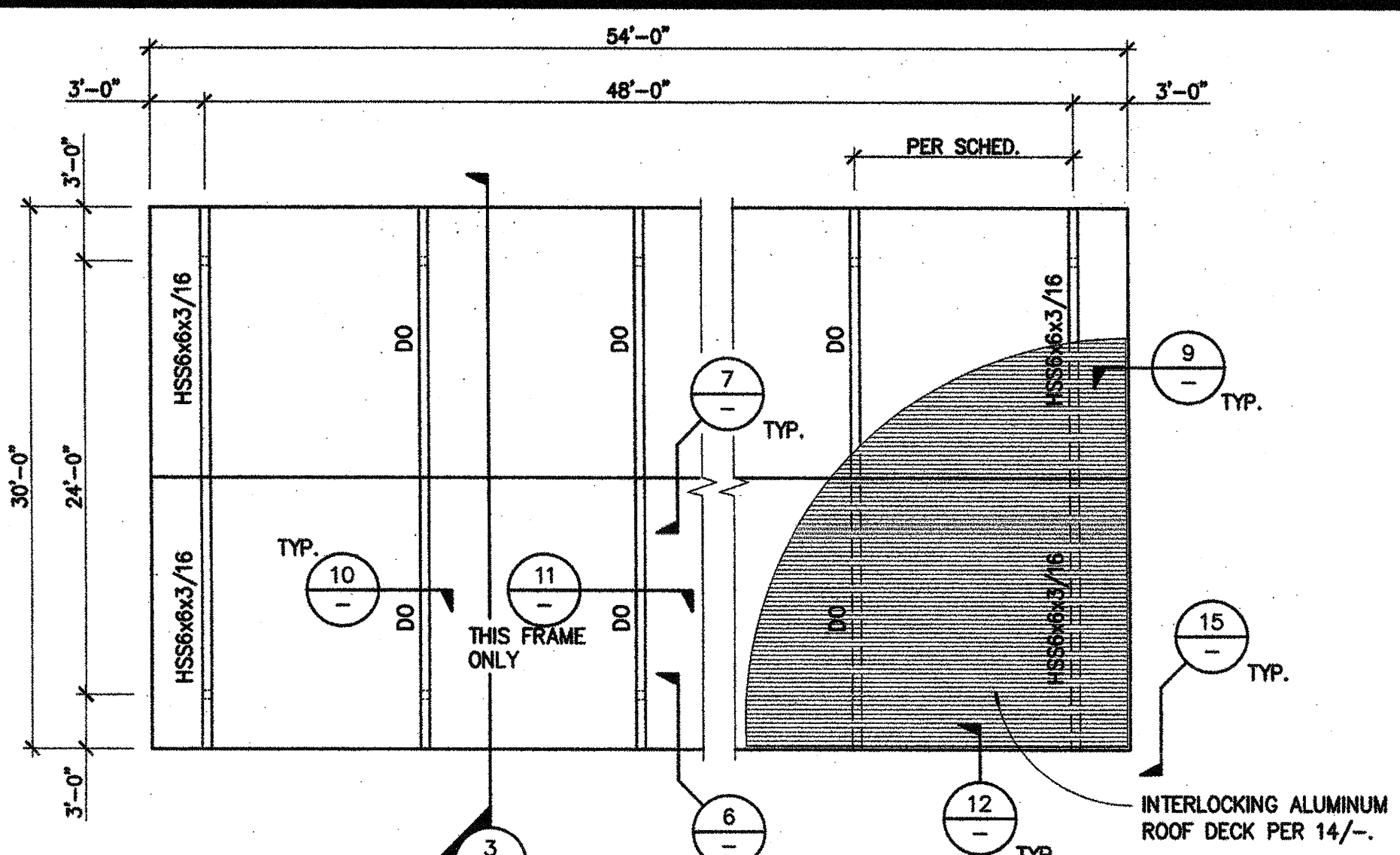
SITE ADDRESS:  
Placenta Middle School  
1880 S. W. Street  
Perris, CA 92370

SHEET TITLE:  
DESIGN NOTES - EXAMPLE  
FORM DSA 103

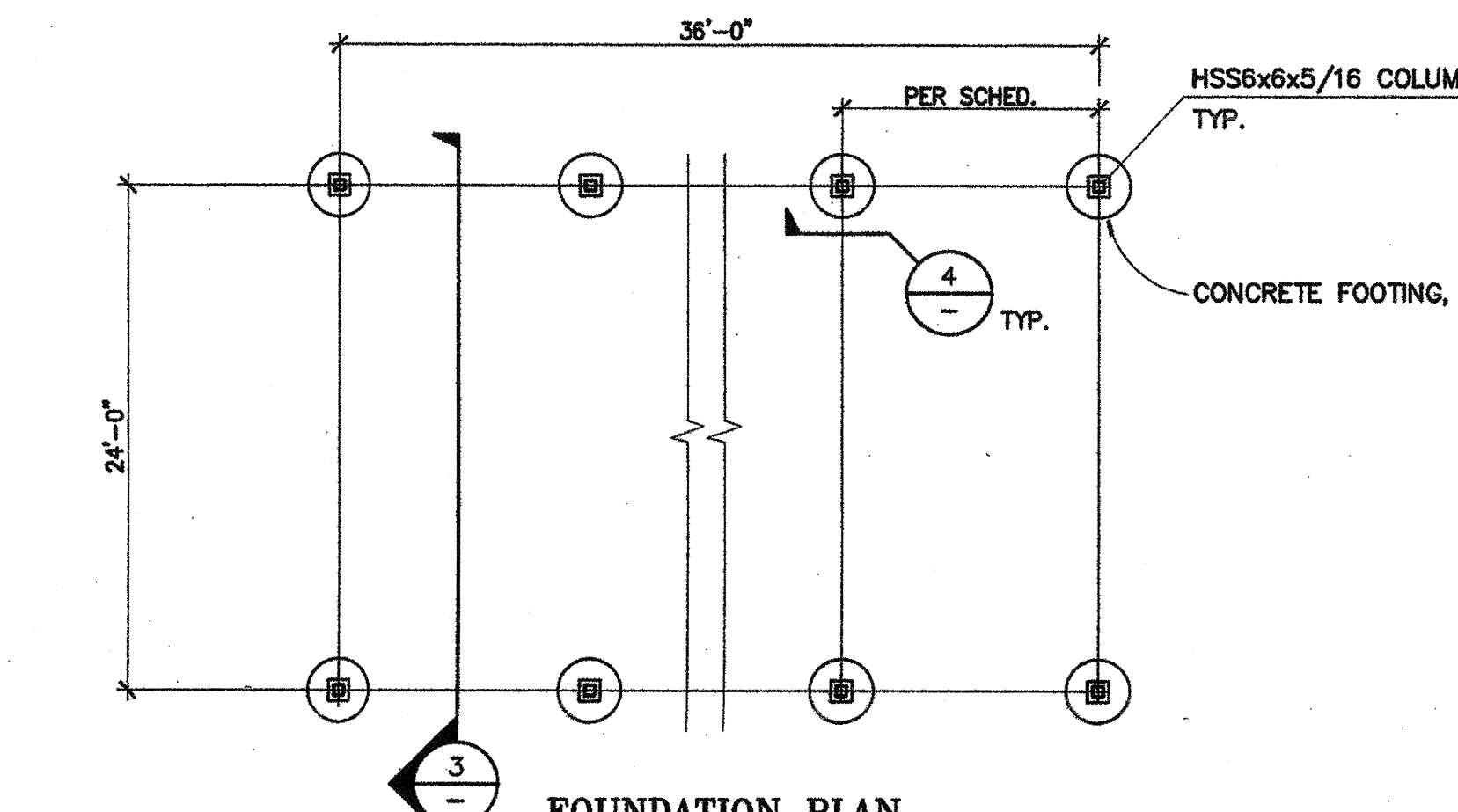
DRAWN:  
NVGI  
CHECKED:  
R.H.  
DATE:  
4/26/18  
SCALE:  
AS NOTED  
JOB NO.:  
67-16  
DRAWING NO.:  
MT30  
SHEET:  
MT30.0  
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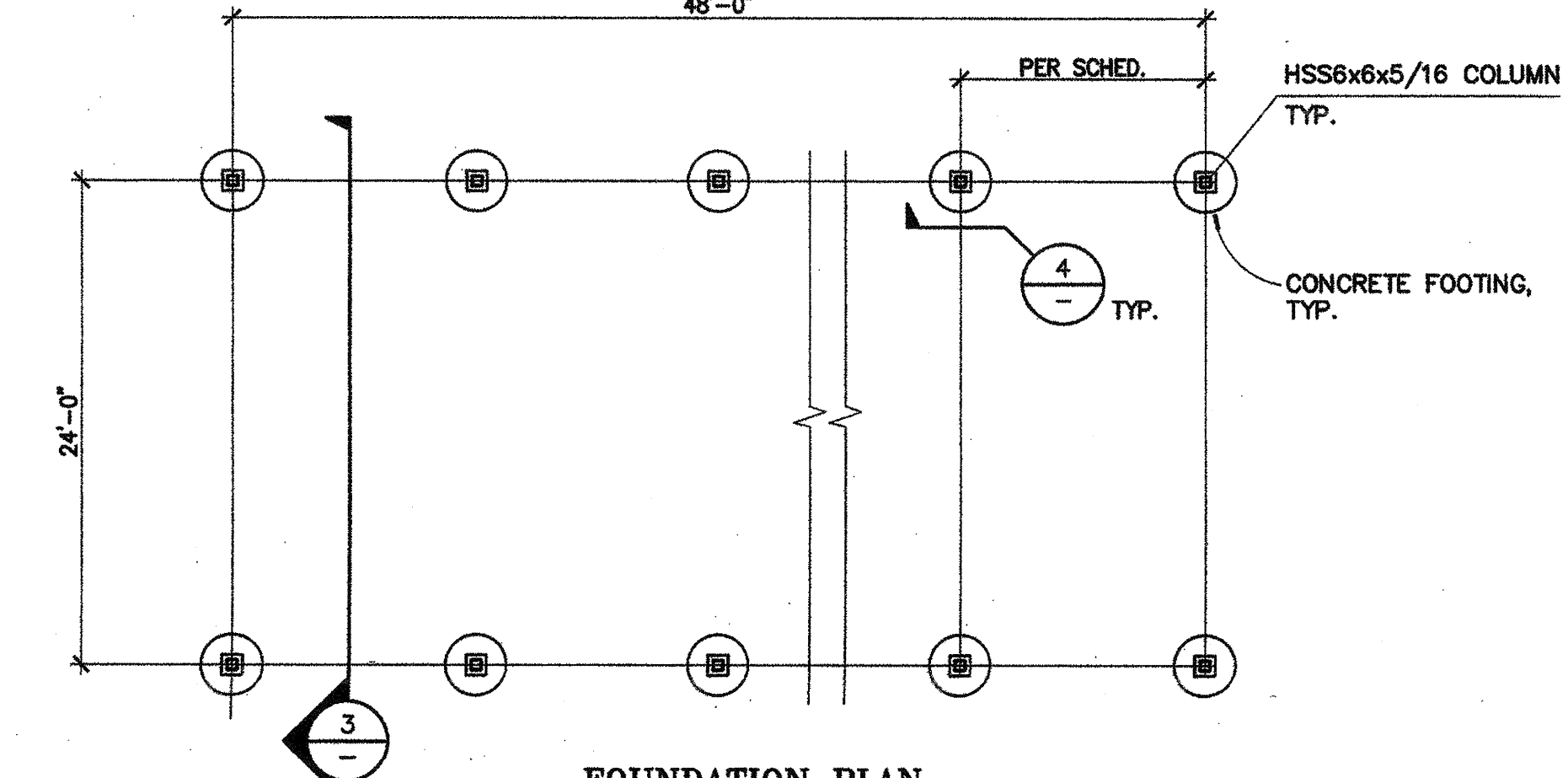
ROOF PLAN



ROOF PLAN



FOUNDATION PLAN



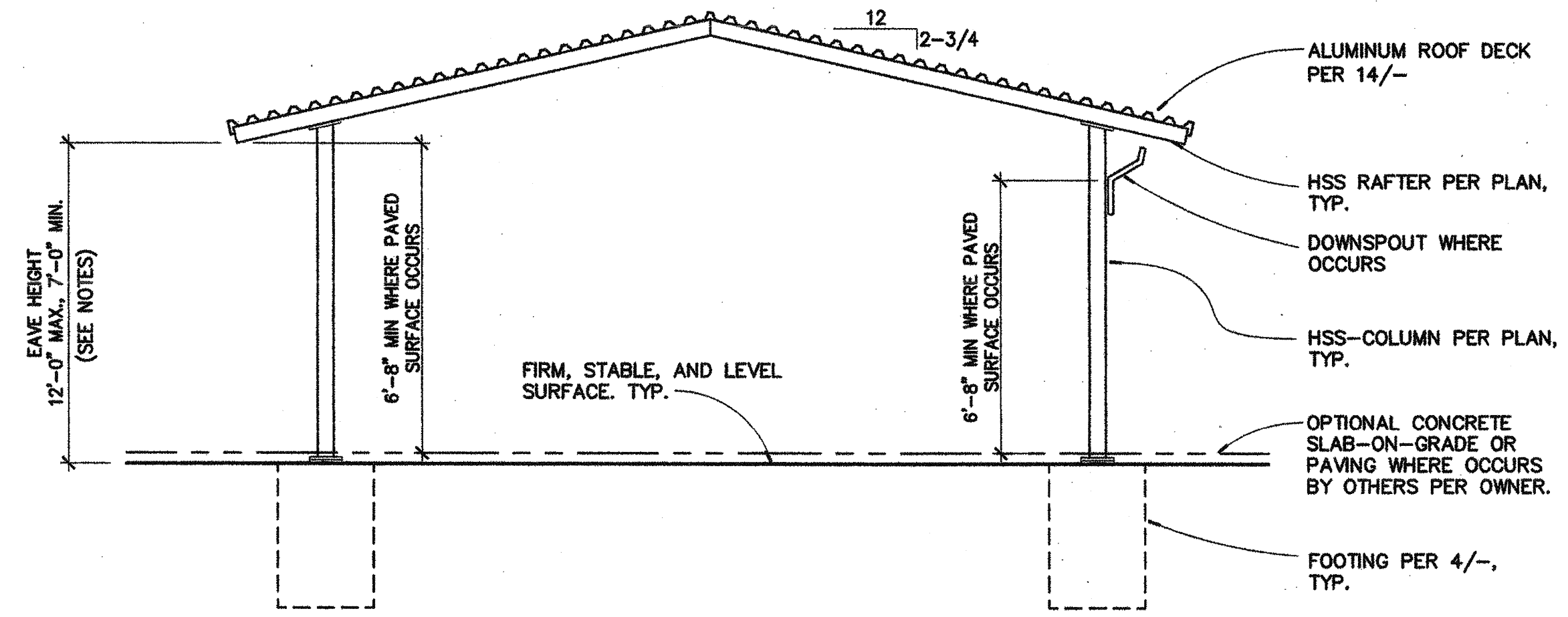
FOUNDATION PLAN

30' x 42' MERAMEC SHELTER PLAN  
1/8" = 1'-0"

30' x 54' MERAMEC SHELTER PLAN  
1/8" = 1'-0"

SNOW OR NON-SNOW REGION	SHELTER SIZE	
	30'x42'	30'x54'
NON-SNOW REGION	(4) FRAMES AT 12'-0" O.C.	(5) FRAMES AT 12'-0" O.C.
SNOW REGION (p ≤ 22 psf)	(5) FRAMES AT 9'-0" O.C.	(6) FRAMES AT 9'-7 3/16" O.C.

- NOTES:
- REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER.
  - EAVE HEIGHT IS MEASURED FROM TOP OF FOOTING EXCEPT WHERE SLAB-ON-GRADE OR PAVING OCCURS. WHERE SLAB OR PAVING OCCURS EAVE HEIGHT SHALL BE MEASURED FROM TOP OF SLAB OR PAVING.

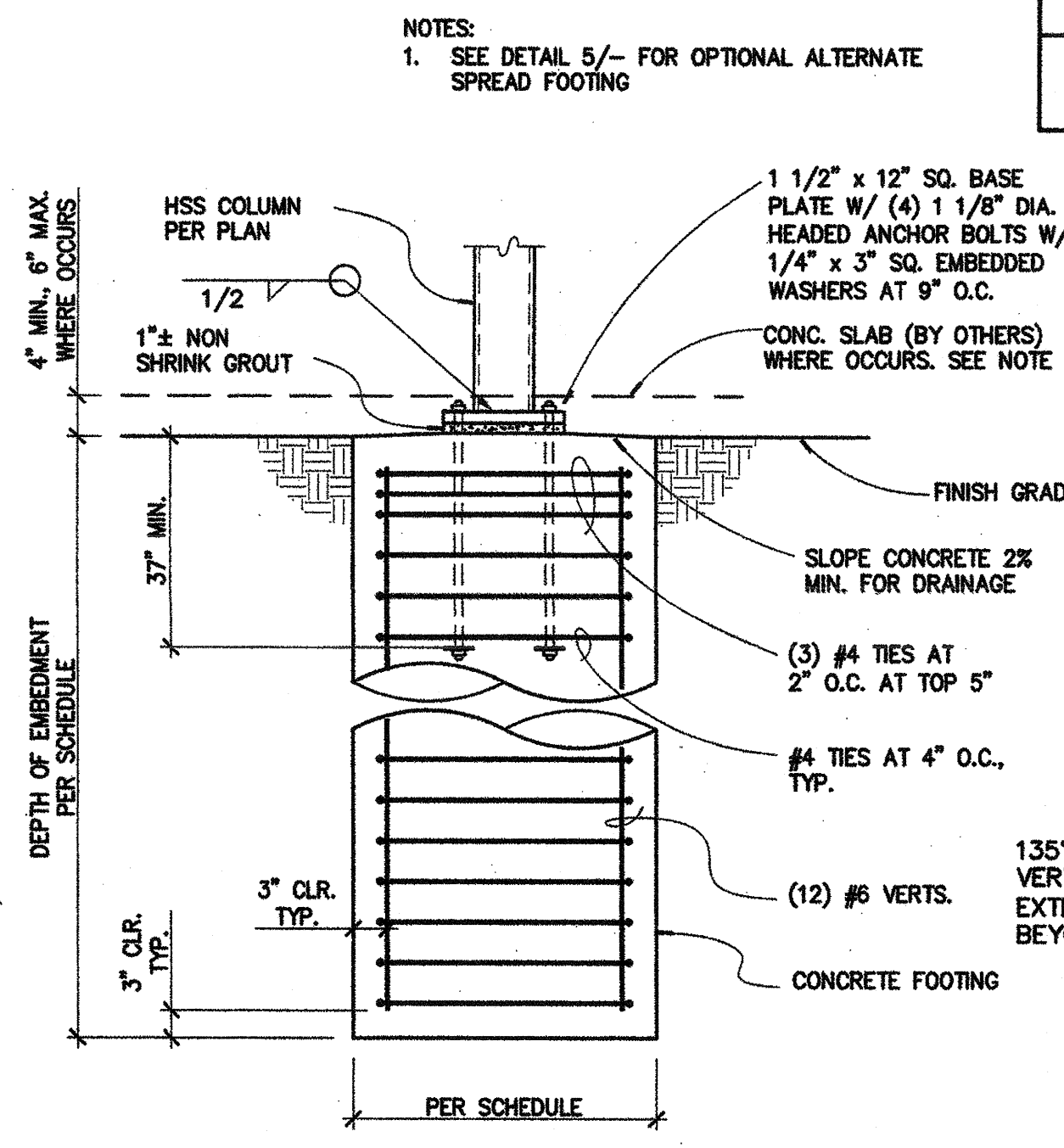


BUILDING SECTION  
1/4" = 1'-0"

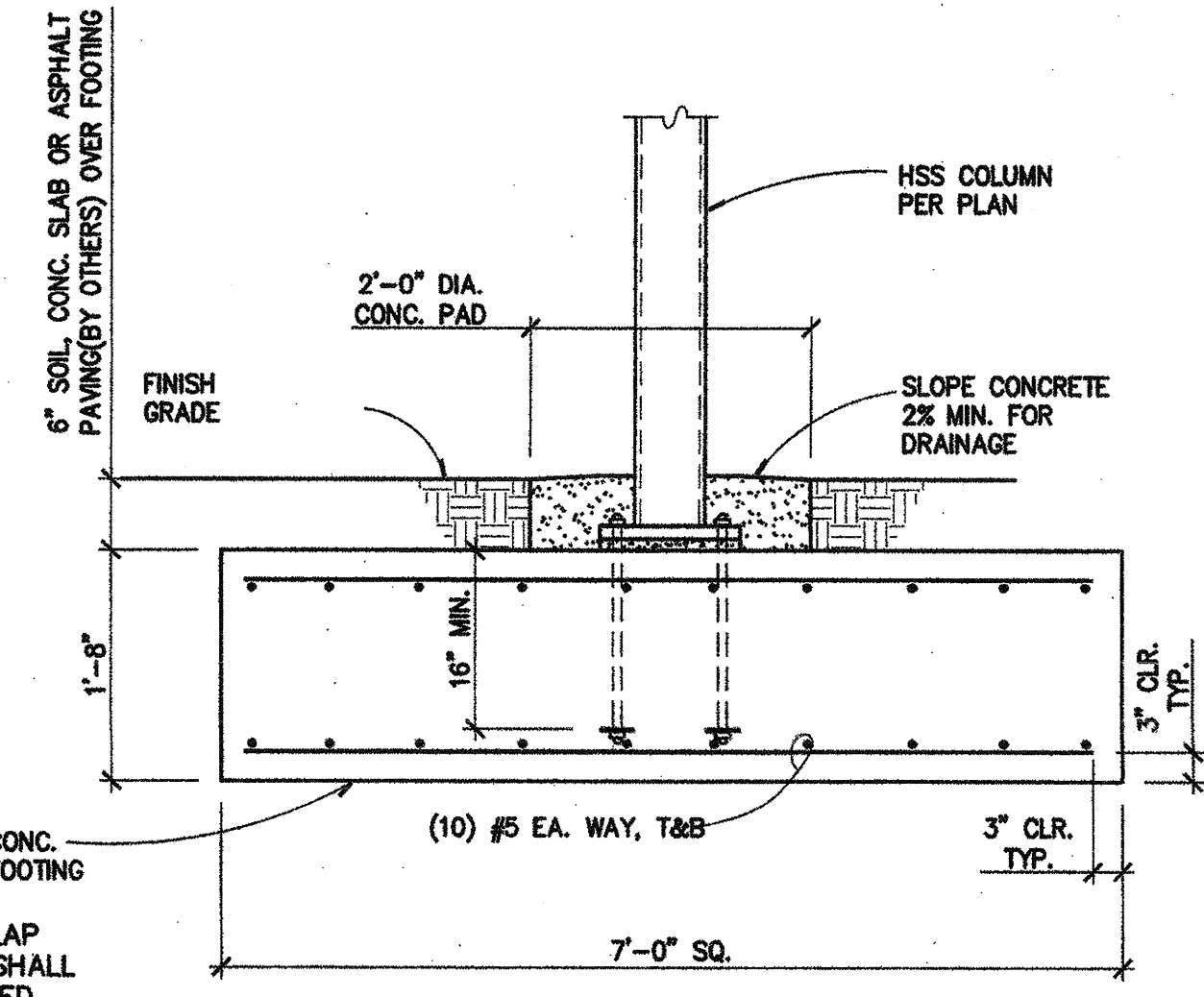
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
04 119 036  
ACS 22 FLS NLS  
DATE JAN 3 0 2020  
28 AUG 2018

PIER FOOTING SCHEDULE	
FOOTINGS MORE THAN 9'-0" (CENTER-TO-CENTER) FROM ADJACENT SHELTER FOOTING	FOOTINGS LESS THAN 9'-0" (CENTER-TO-CENTER) FROM ADJACENT SHELTER FOOTING
3'-0" DIA. x 9'-0" DEEP	3'-0" DIA. x 12'-0" DEEP

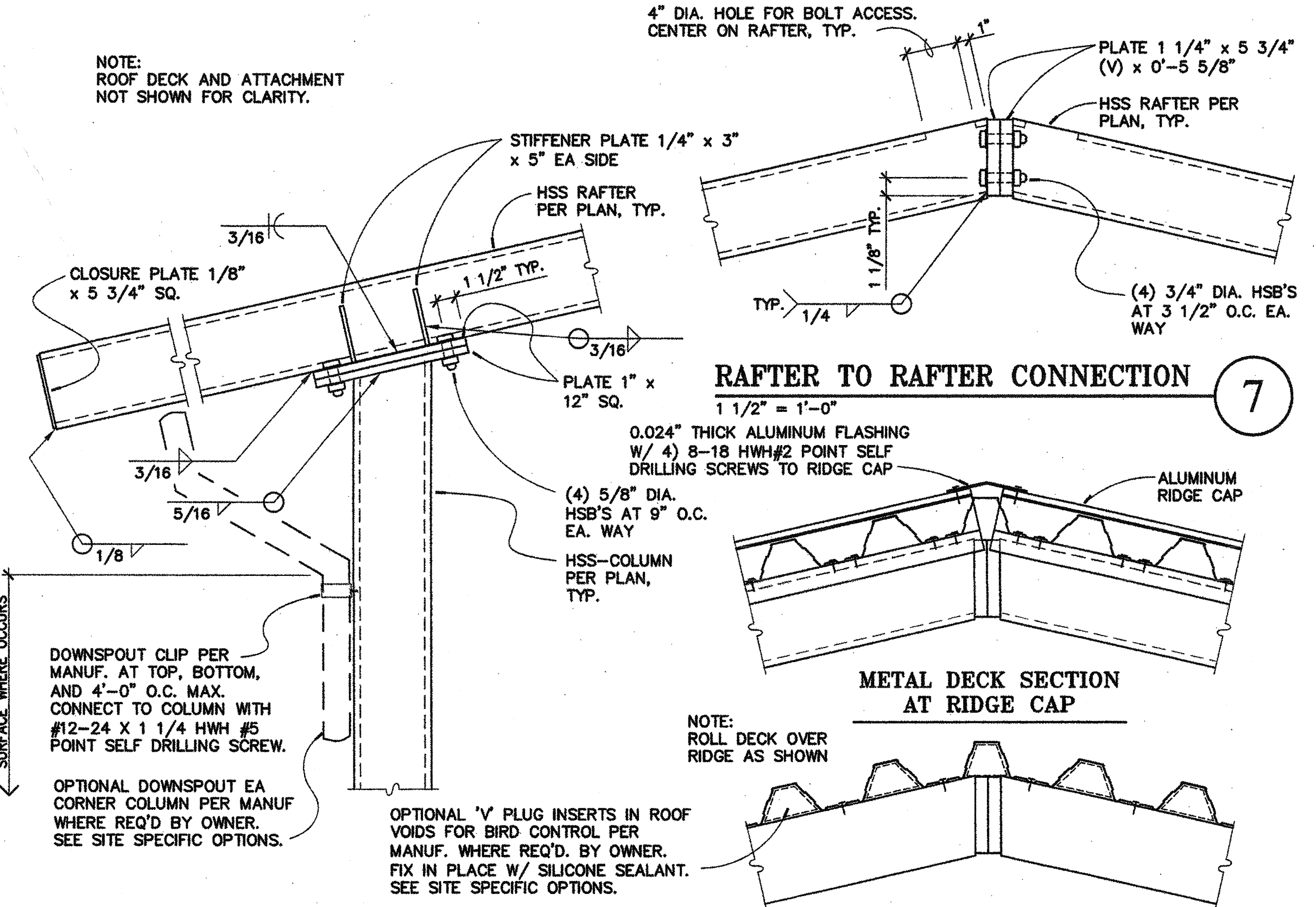
NOTES:  
1. REQUIRED FOOTING SIZE VARIES BASED ON PROXIMITY TO ADJACENT SHELTER, WHERE OCCURS.



FOUNDATION SECTION  
3/4" = 1'-0"

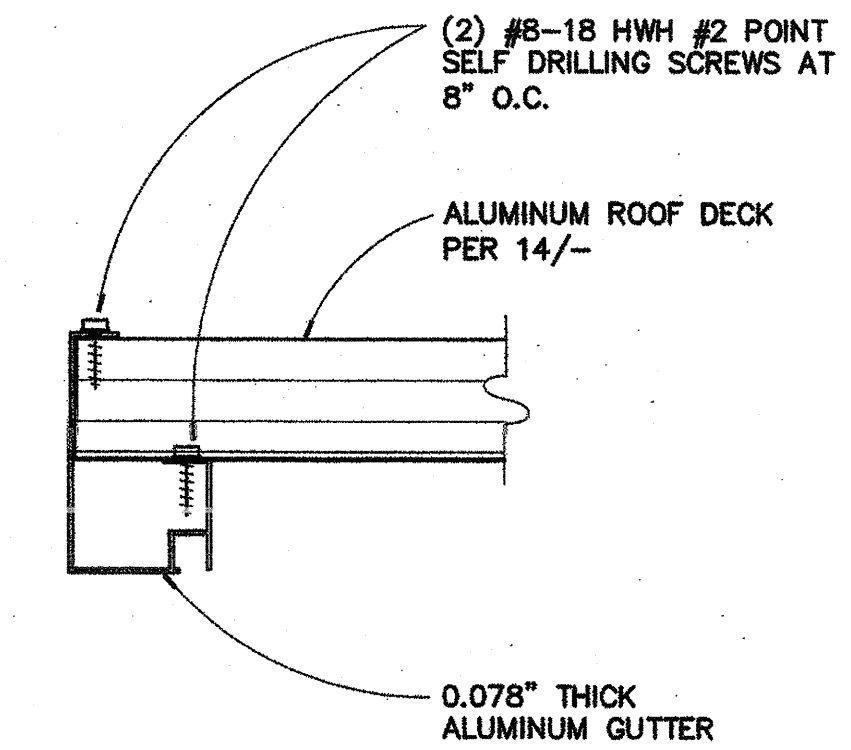


ALTERNATE FOUNDATION SECTION  
3/4" = 1'-0"

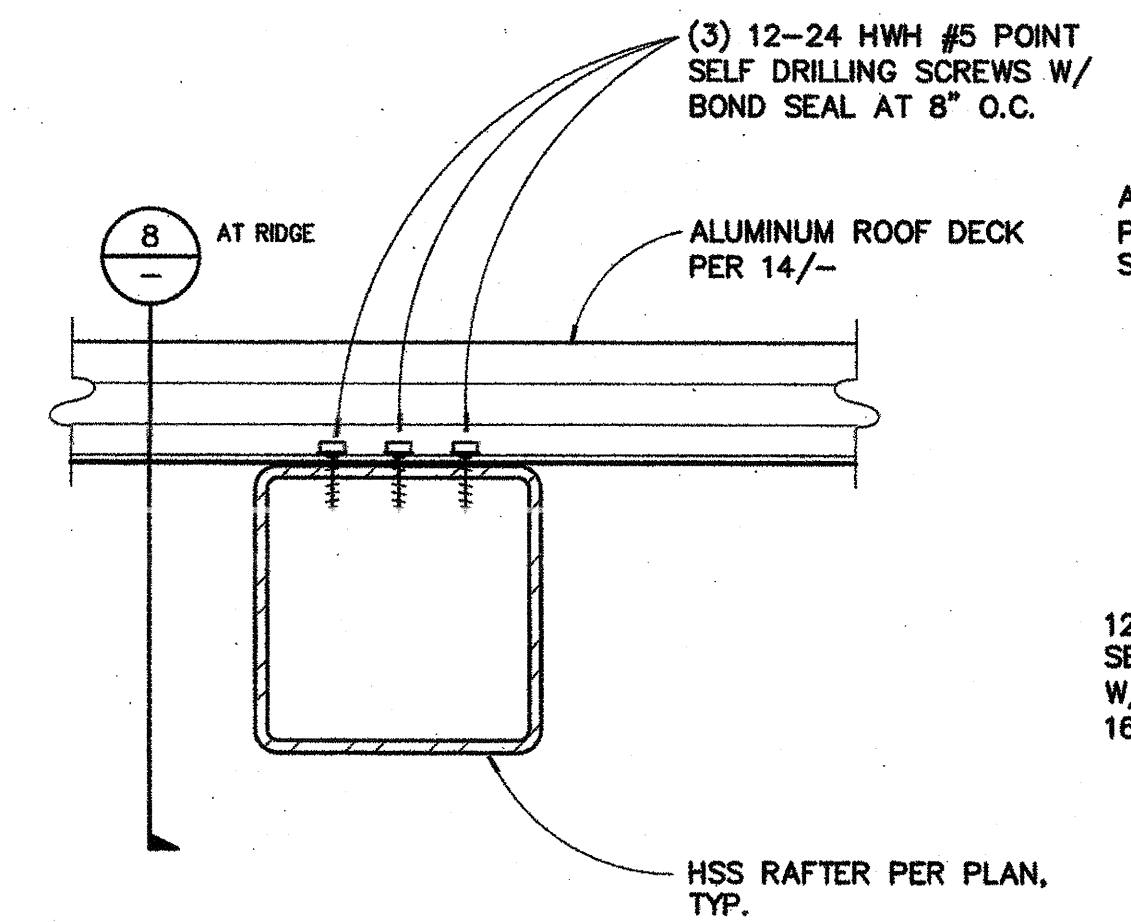


RAFTER TO COLUMN CONNECTION  
1 1/2" = 1'-0"

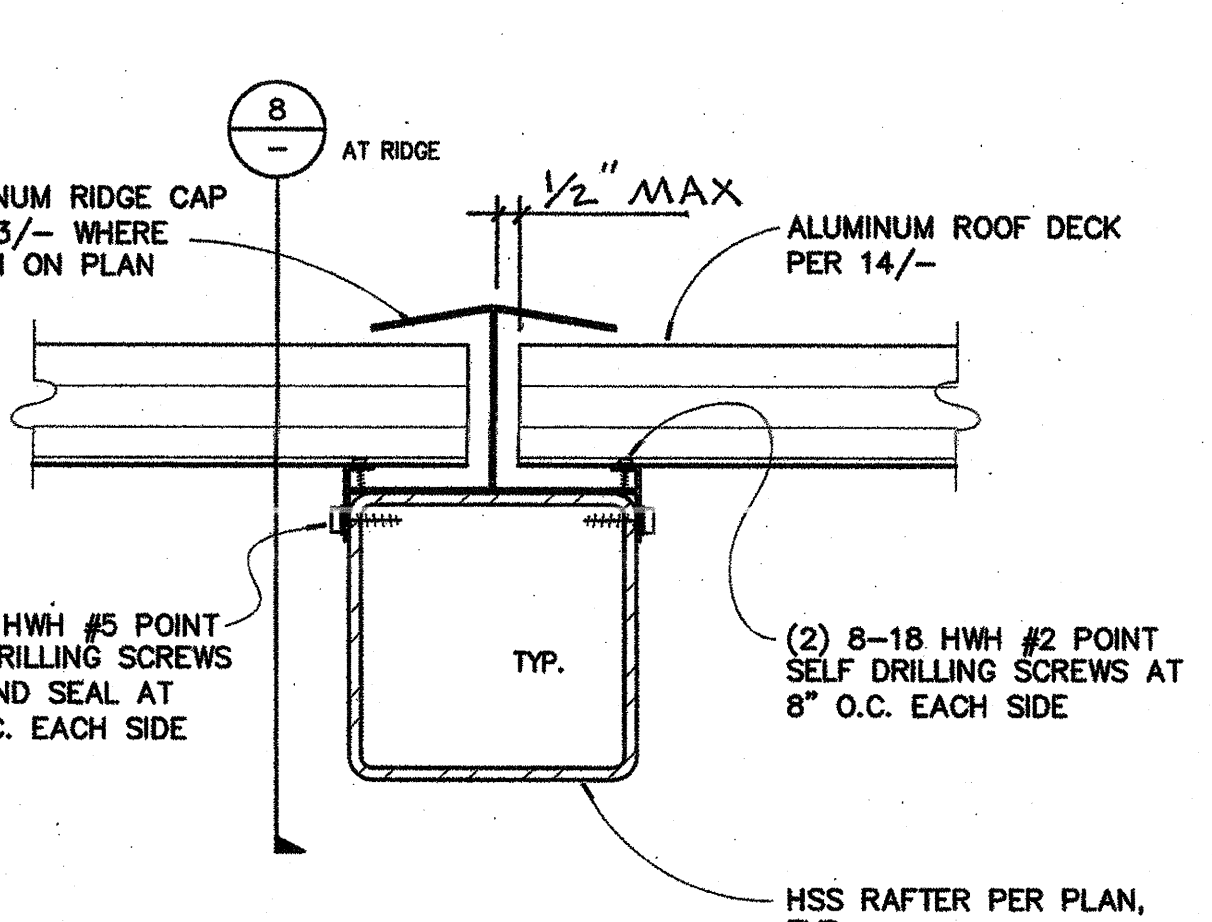
METAL DECK SECTION AT RIDGE  
1 1/2" = 1'-0"



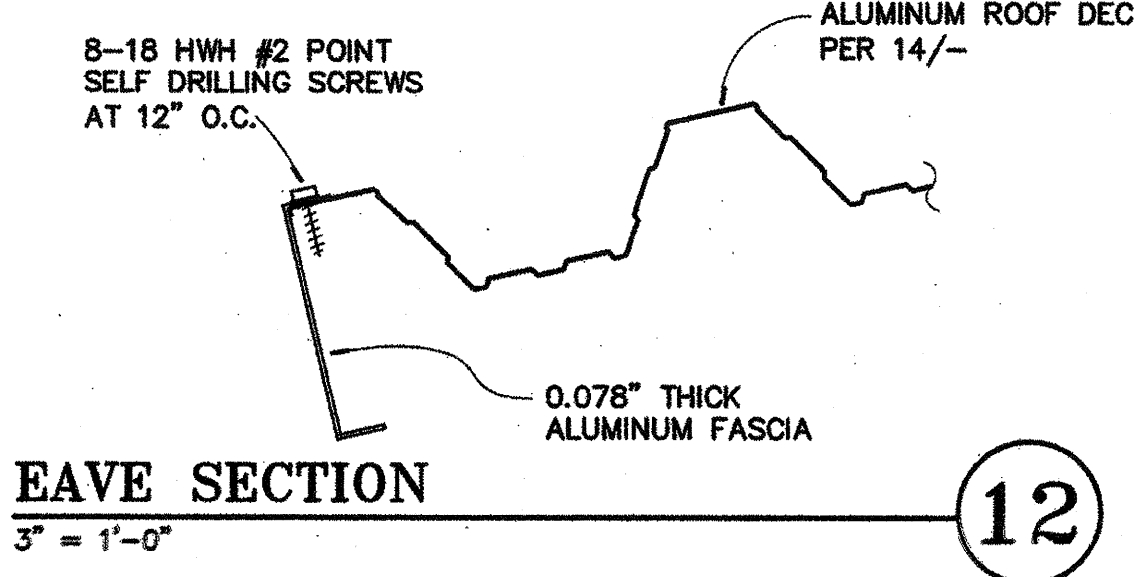
GUTTER TO ROOF DECK CONNECTION  
3" = 1'-0"



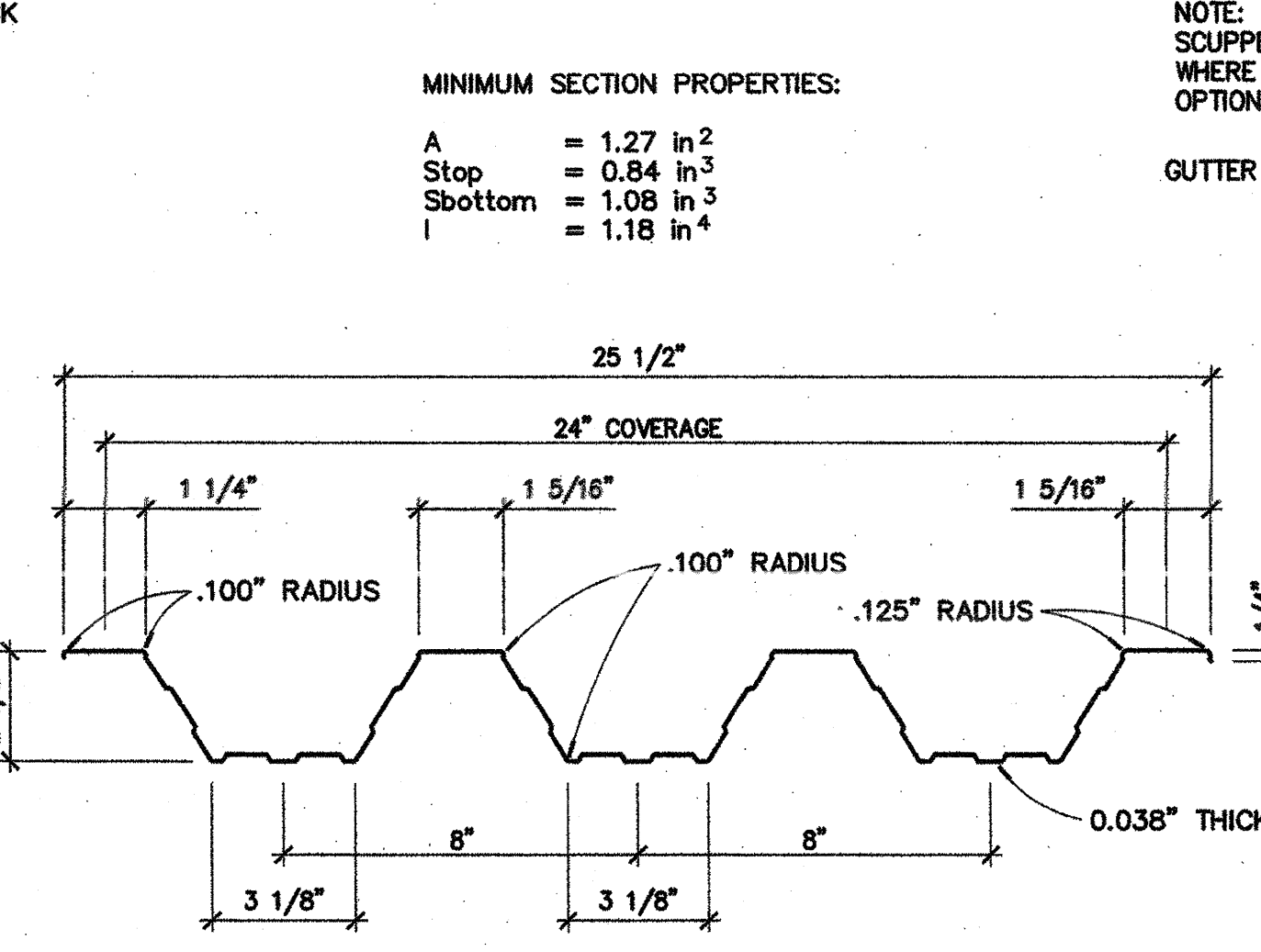
ROOF DECK TO RAFTER CONNECTION  
3" = 1'-0"



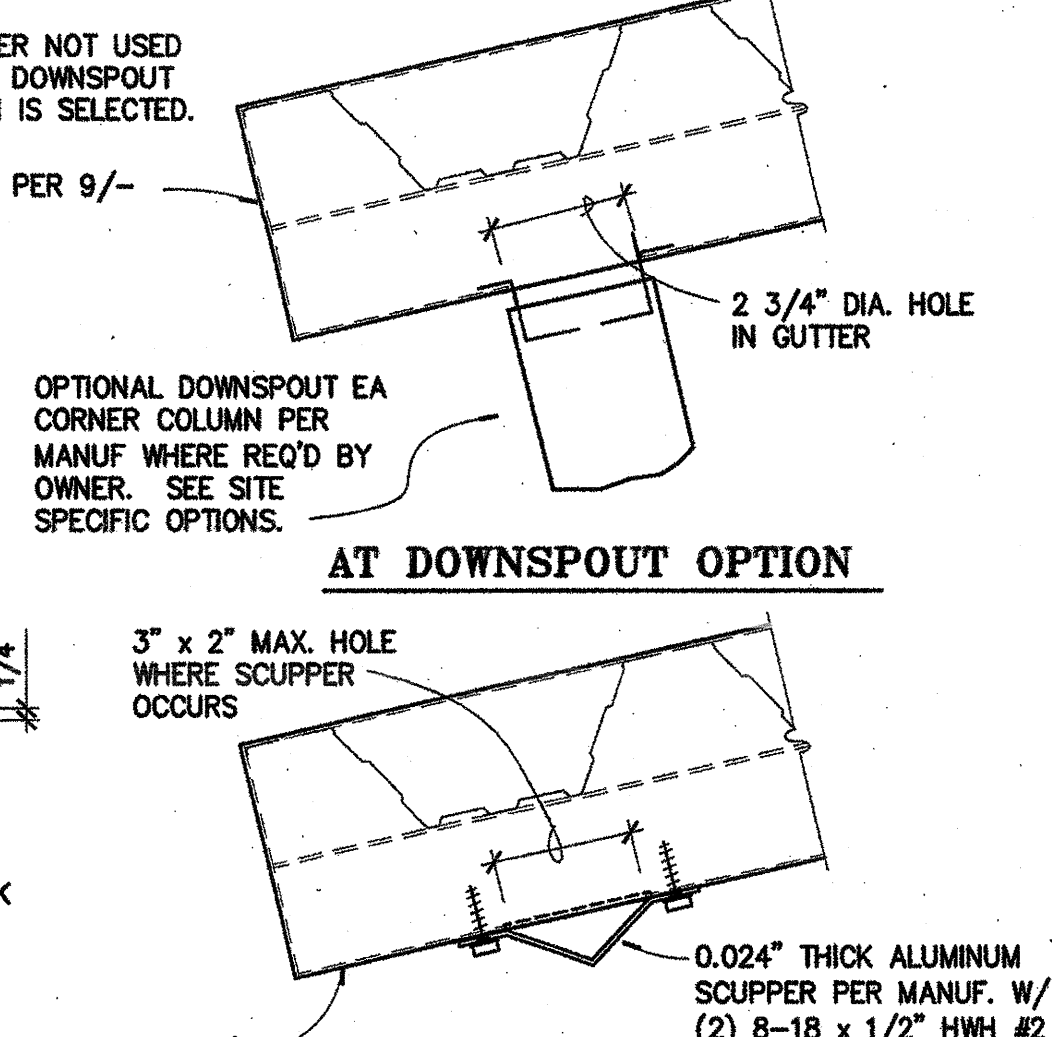
ROOF DECK SPLICE  
3" = 1'-0"



RIDGE CAP PROFILE  
3" = 1'-0"



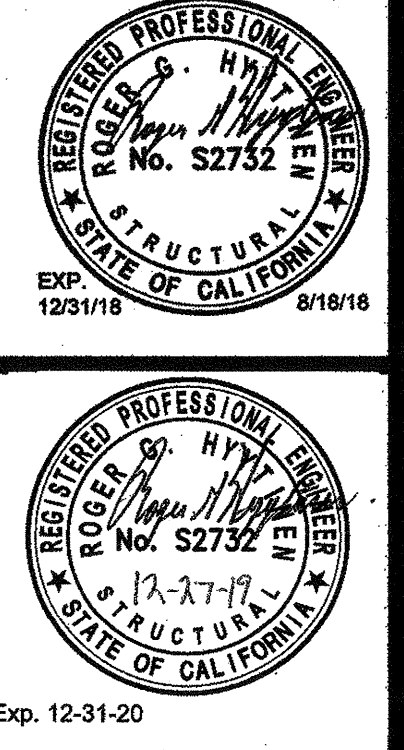
INTERLOCKING ROOF DECK PROFILE  
3" = 1'-0"



GUTTER DRAIN HOLES  
3" = 1'-0"

APPL. NO.: 02-115731  
PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A separate project application for construction is required.

HYTTINEN ENGINEERING LLC  
5488 Longley Lane, Suite B  
Reno, Nevada 89511  
(775) 826-3019 PHONE  
(775) 826-3076 FAX



PROJECT: 30' MERAMEC SHELTERS (SEISMIC Ss = 2.5)  
AMERICANA BUILDING PRODUCTS  
#2 Industrial Dr. - Salem, IL 62881  
(800)851-0865 www.americana.com

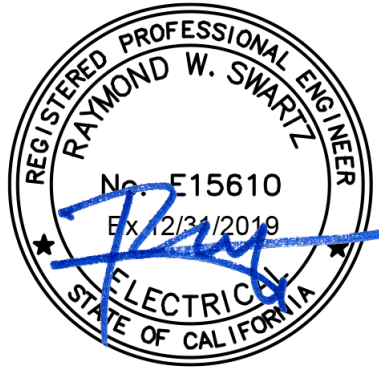
SITE ADDRESS: Pinacate Middle School  
1900 South A Street  
Perris, CA 92370  
SHEET TITLE: PLANS, SECTIONS AND DETAILS

DRAWN: NVGI  
CHECKED: R.H.  
DATE: 4/26/18  
SCALE: AS NOTED  
JOB NO.: 67-16  
DRAWING NO.: MT30  
SHEET: MT30.1  
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PINACATE MIDDLE SCHOOL  
SHADE STRUCTURE  
PERRIS UNION HIGH SCHOOL DISTRICT



CIVIL



ELECTRICAL



**pjhm**  
architects

**SECTION 00 01 10  
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END OF SECTION

**SECTION 01 11 00  
SUMMARY OF WORK**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Summary of Work
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

- A. Work of the Contract can be summarized by references to the Contract, Agreement, General Conditions, Special Conditions, Supplemental Conditions, Specification, Drawings, Addenda and modifications to the contract documents issued subsequent to the initial printing of this project manual and including, but not necessarily limited to, printed material referenced by any of these. It is recognized that work of the contract is also unavoidably affected or influenced by governing regulations, natural phenomenon including weather conditions and other forces outside the contract documents.

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

- A. Design Requirements, Performance Requirements
  - 1. Provide quality workmanship for the related work indicated and specified herein, meeting the quality standards of the trades affected by the scope of work per these contract documents.
- B. Project/Work Identification

THIS CONSTRUCTION DOCUMENT PACKAGE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING SCOPE:

- 1. GENERAL ALTERATION TO:
  - (E) SITE WORK, UTILITIES
- 2. ADDITION TO:
  - (E) 30'x54' SHADE STRUCTURE (A#04-111450) WITH (N)30'x54' SHADE STRUCTURE (PC#02-115731)

**1.05 SUBMITTALS**

**1.06 QUALITY ASSURANCE**

- A. Qualifications
- B. Regulatory Requirements
  - 1. The contract documents indicate the intended occupancy and utilization of the buildings and its individual systems and facilities,

compliance with governing regulations is intended and required for the work and for the owner's occupancy and utilization.

- C. Certifications
- D. Field Samples
- E. Mock-ups
- F. Pre-installation Meetings

- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
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- 1.13 OWNER'S INSTRUCTIONS
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- 2.02 EXISTING PRODUCTS
- 2.03 MATERIALS
- 2.04 MANUFACTURED UNITS
- 2.05 EQUIPMENT
- 2.06 COMPONENTS
- 2.07 ACCESSORIES
- 2.08 MIXES
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- 2.10 FINISHES
- 2.11 SOURCE QUALITY CONTROL

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- 3.01 INSTALLERS
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END OF SECTION

**SECTION 01 20 00  
PRICE AND PAYMENT PROCEDURES**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Payment Procedures
  - 2. Schedule of Values
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
  - 1. 01 21 00 Allowances
  - 2. 01 23 00 Alternates
  - 3. 01 32 16 Construction Progress Schedule
  - 4. 01 77 00 Closeout Procedures
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

- A. Product Data
- B. Shop Drawings
- C. Samples
- D. Quality Assurance/Control Submittals
  - 1. Schedule of Values
    - a. Submit a Preliminary Schedule of Values to the ARCHITECT and OWNER for review and approval within 5 calendar days after the date of OWNER issued Notice of Intent to Award (N.O.I.). Submit a PDF copy in Microsoft Excel spreadsheet format. AIA Document G703-1992 will not be accepted.
      - 1. Preliminary Schedule of Values to include all trades, General Conditions, General Contractor's Overhead and Profit, and bonds and insurance for each site.
      - 2. Review and approval of Preliminary Schedule of Values by the ARCHITECT and OWNER shall be required prior to award of the construction contract.
    - b. Submit a Final Schedule of Values to the ARCHITECT for review and approval within 15 calendar days after the date of OWNER-CONTRACTOR Agreement. Submit a PDF copy in Microsoft Excel spreadsheet format. AIA Document G703-1992 will not be accepted.
    - c. In the Schedule of Values, the Contract Sum shall be broken down into specific elements of the Work, as follows, coded in accordance with the OWNER'S coding structure.
      - 1. General Contractor's Overhead and Profit
      - 2. Site Mobilization
      - 3. Bonds and Insurance

**PRICE AND PAYMENT PROCEDURES**



4. Field Supervision
  5. Project Close-Out (Section of General Requirements)
  6. Other General Conditions and General Requirements
  7. Demolition each item/element itemized.
  8. Site Clearing and Preparation
  9. Site Earthwork
  10. Site Improvements (Paving, etc.)
  11. Site Utilities
  12. Landscape Irrigation
  13. Landscape Planting
  14. Each CSI Format Division 2 through 48
  15. HVAC Work
  16. Plumbing
  17. Fire Protection Sprinklers
  18. Electrical Power and Lighting
  19. Electrical Site Lighting
  20. Fire Alarm and Smoke Detection Systems
  21. Electrical Communications and Security Systems
  22. Project Allowance
- d. On projects of more than one building, provide separate schedules for each building.
  - e. The percent-complete values from the approved cost-loaded Construction Progress Schedule shall provide the basis for each Application for Payment. Before each Application, update the Progress Schedule with all approved Change Orders.
2. Application For Payment
    - a. Payment Application Forms: Use OWNER provided forms for the Application for Payment.
    - b. Submit Application for Payment to the ARCHITECT (four (4) signed original copies of each certified application). All copies shall be complete, including the updated Schedule of Values and Construction Progress Schedule, releases and similar attachments. Transmit each copy with a transmittal form listing attachments and recording appropriate information related to the application, in a manner acceptable to ARCHITECT.
    - c. Each certified Application for Payment shall be consistent with previous applications and payments as reviewed by ARCHITECT and paid for by OWNER.
    - d. Payment Application Times: The period of Work covered by each Application for Payment is based on the payment date for each progress payment as specified in the General Conditions. The period covered by each Application for Payment is the previous month.
    - e. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with the first certified Application for Payment include, but are not limited to, the following:
      1. Certified Schedule of Values or Cost-Loaded Schedule
      2. Performance and payment bonds
      3. List of principal suppliers and fabricators

PRICE AND PAYMENT PROCEDURES

4. Worker Compensation certificates
  5. Auto Insurance
  6. Hazardous Material Insurance Certificates
  7. Construction Progress Schedule
  8. Submittal Schedule
  9. Emergency Contact List
  10. Copies of authorizations and licenses from governing authorities for performance of the Work
- f. Application for Payment at Substantial Completion: Following OWNER issuance of the certificate of Substantial Completion, submit an Application for Payment together with the following:
1. Occupancy permits and similar approvals by authorities having legal jurisdiction over the Work
  2. Removal of temporary facilities and services
  3. Testing, adjusting and balance records
  4. Removal of surplus materials, rubbish, and similar elements
  5. Meter readings
  6. Start-up performance reports
  7. OWNER training and orientations
  8. Change-over information related to OWNER occupancy, use, operation, and maintenance
  9. Final cleaning
  10. Ensure that incomplete Work is not accepted and will be completed without undue delay
  11. Advice on shifting insurance coverage
  12. List of defective Work, recognized as exceptions to certificate of Substantial Completion
  13. Change of door locks to OWNER system
- g. Final Payment Application: Administrative actions and submittals that must precede or coincide with submittal of the final Application for Payment include, but are not limited to, the following:
1. Completion of Contract Closeout requirements
  2. Project record and other closeout documents
  3. Completion of final punch list items
  4. Delivery of extra materials, products and or stock
  5. Identification of unsettled claims
  6. Proof that taxes, fees, and similar obligations are paid
  7. Evidence of payment and release of liens
  8. Operating and maintenance instruction manuals
  9. Consent of surety to final payment
  10. Waivers and releases
  11. Warranties, guarantees and maintenance agreements
- h. Retention
1. Retention will be released no sooner than 35 days and not later than 60 days after Notice of Completion has been recorded with the County Recorder's Office.

E. Closeout Submittals

PRICE AND PAYMENT PROCEDURES

- 1.06 QUALITY ASSURANCE
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- 3.01 INSTALLERS
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- 3.04 ERECTION
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- 3.06 APPLICATION
- 3.07 CONSTRUCTION
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- 3.09 RE-INSTALLATION
- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 21 00  
ALLOWANCES**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes
  - 1. Submission Procedures
  - 2. Change Procedures
  - 3. Schedule of Allowances
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
  - 1. (Division 0) Bid Form
- E. Allowances
  - 1. Add monetary value of scheduled allowances to base bid price.
  - 2. Change Order Items which occur during the course of construction shall be deducted from the allowance set forth for each CONTRACTOR.
  - 3. Change Items will be processed as described in the General Conditions of the Contract and will be included in a formal Change Order. All Change Orders must be signed by the ARCHITECT, OWNER and CONTRACTOR prior to fabrication or use.
  - 4. Any portion of the allowance remaining at the end of the project shall be deducted from the contract via Change Order.
  - 5. For schedule of allowances, see section 3.15.
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

1.02 REFERENCES

1.03 DEFINITIONS

1.04 SYSTEM DESCRIPTIONS

1.05 SUBMITTALS

1.06 QUALITY ASSURANCE

1.07 DELIVERY, STORAGE, AND HANDLING

1.08 PROJECT CONDITIONS

1.09 SEQUENCING

1.10 SCHEDULING

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1.12 SYSTEM STARTUP

1.13 OWNER'S INSTRUCTIONS

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- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES
  - A. No Allowances

END OF SECTION

**SECTION 01 23 00  
ALTERNATES**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes
  - 1. Submission Procedures
  - 2. Documentation of changes to Contract Sum/Price and Contract Time
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
  - 1. (Division 0) Bid Form
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates
  - 1. Indicate variation of Bid Price for Alternates described below and list in the Proposal any supplement to it, which requests a "difference" in Bid Price by [adding to] or [deducting from] the base bid price.
  - 2. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.
  - 3. Alternates quoted in the Proposal will be reviewed and accepted or rejected as stated in the Information for Bidders. Accepted Alternates will be identified in the Notice of Award.
  - 4. Once the responsible Bidder has been selected, the OWNER may determine to add to or deduct from the Contract any of the additive or deductive items in accordance with the Information for Bidders.
  - 5. For schedule of alternates, see section 3.15.

1.02 REFERENCES

1.03 DEFINITIONS

1.04 SYSTEM DESCRIPTIONS

1.05 SUBMITTALS

1.06 QUALITY ASSURANCE

1.07 DELIVERY, STORAGE, AND HANDLING

1.08 PROJECT CONDITIONS

1.09 SEQUENCING

1.10 SCHEDULING

1.11 WARRANTY

1.12 SYSTEM STARTUP

1.13 OWNER'S INSTRUCTIONS

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**PART 2 PRODUCTS**

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2.02 EXISTING PRODUCTS

2.03 MATERIALS

- 2.04 MANUFACTURED UNITS
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**PART 3 EXECUTION**

- 3.01 INSTALLERS
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- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES
  - A. No Alternates

END OF SECTION

**SECTION 01 25 00  
SUBSTITUTION PROCEDURES**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Provide, install, and finish of products specified under options and conditions for substitutions stated in this section of specifications and as needed for a complete, proper, and operable installation.
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
  - 1. (Division 0) General Conditions
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

- A. Products List
  - 1. Submit six (6) copies of complete list of major products and systems which are proposed for installation. Include Substitution Request Form attached to the end of this specification. Digital submissions may be accepted at ARCHITECT'S discretion.
  - 2. Tabulate products and systems by specifications section number and title.
  - 3. For products and systems specified only by reference standards, list for each such product or system:
    - a. Name and address of manufacturer or fabricator.
    - b. Trade name.
    - c. Model or catalog designation, including date.
    - d. Manufacturer's or fabricator's data and literature on: Reference standards, performance test data, certifications.
- B. Specified Options
  - 1. For products specified only by reference standard, select product meeting that standard, by any manufacturer.
  - 2. For products specified by naming several products or manufacturers, select any one (1) of the products or manufacturers named.
  - 3. For products specified by naming one (1) or more products or manufacturers and stating "or equal", submit a request for substitutions for any product or manufacturer which is not specifically named, but only after submitting bid on specified products and systems.



- C. Submission of Data Substantiating a Request for a Substitution of “An Equal Item”
1. A substitution request must be submitted to the OWNER not later than seven (7) days prior to the Bid Deadline specified in the Notice Inviting Bids. The OWNER will not consider any substitution request received thereafter, except to the extent provided in the General Conditions. Concurrently with submitting a substitution request, the Bidder must provide all information required pursuant to the General Conditions to substantiate the request. The OWNER shall not be required to make a determination in regard to any substitution request and/or substantiating information prior to award of the Contract. If the OWNER gives a Notice of Award for the Contract to a Bidder, but subsequently disapproves a substitution proposed by that Bidder, the Bidder must provide the Specified Item in accordance with the Contract Documents and at no additional cost to the OWNER.
  2. It is the intent of the OWNER and ARCHITECT to have this project constructed with materials, products and systems originally designed and specified into project. This opportunity to request substitutions is not for the convenience of bidders or CONTRACTORS to submit bids for materials, products and systems which may be more familiar to them, or having a lesser cost.
  3. Submit separate request for each substitution item. Support each request with an explanation for the request, and include:
    - a. Complete data substantiating compliance of proposed substitutions with requirements stated in contract documents:
      1. Product identification, including manufacturer’s name and address.
      2. Manufacturer’s literature; identify: Product description, reference standards, performance and test data.
      3. Samples, as applicable.
      4. Name and address of similar projects on which product has been used, and date of each installation, as well as servicing agency and installer.
    - b. Itemized comparison of the proposed substitution with products specified, listing significant variations.
    - c. Data relating to changes in the construction schedule.
    - d. Any effect of substitution on separate contracts.
    - e. Any effect of substitution on in-place construction or other materials and systems to be installed.
    - f. Accurate cost data comparing proposed substitution with product specified.
    - g. Designation of required license fees or royalties.
    - h. Designation of availability of maintenance services and sources of replacement materials.
  4. Substitutions will not be considered for acceptance when:
    - a. Lesser material cost is the sole reason for request.
    - b. They are indicated or implied on shop drawings or product data submittals without formal request.
    - c. Acceptance may require revision of contract documents.

SUBSTITUTION PROCEDURES

5. Substitute products shall not be ordered or installed without written acceptance and authorization of OWNER and ARCHITECT.
  6. Substitutions shall be approved by OWNER and ARCHITECT prior to fabrication or use.
  7. Only the OWNER and ARCHITECT will determine the acceptability of proposed substitutions.
- D. Representations
1. In making a legitimate, authorized formal request for substitution, represent that:
    - a. A thorough investigation has transpired concerning the proposed product, and it has been determined that it is equal to or superior in all respects to that specified.
    - b. The same warranties or bonds and guarantees will be provided as for that specified.
    - c. Installation of the accepted substitution will be coordinated into the work; and such changes to in-place work, ordered materials and products, or other work to be in progress prior to installation of the requested substitutions, will be performed without any additional cost to OWNER.
- E. Duties
1. Requests for substitutions must be expeditiously forwarded for consideration per the requirements of the General Conditions.
  2. Notification of decisions concerning acceptance or rejection will be in writing, and are final without need for clarification.

- 1.05 SUBMITTALS
- 1.06 QUALITY ASSURANCE
- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
- 1.12 SYSTEM STARTUP
- 1.13 OWNER'S INSTRUCTIONS
- 1.14 COMMISSIONING
- 1.15 MAINTENANCE

## **PART 2 PRODUCTS**

- 2.01 MANUFACTURERS
- 2.02 EXISTING PRODUCTS
- 2.03 MATERIALS
- 2.04 MANUFACTURED UNITS
- 2.05 EQUIPMENT
- 2.06 COMPONENTS
- 2.07 ACCESSORIES
- 2.08 MIXES
- 2.09 FABRICATION
- 2.10 FINISHES
- 2.11 SOURCE QUALITY CONTROL

## **PART 3 EXECUTION**

### **SUBSTITUTION PROCEDURES**

- 3.01 INSTALLERS
- 3.02 EXAMINATION
- 3.03 PREPARATION
- 3.04 ERECTION
- 3.05 INSTALLATION
- 3.06 APPLICATION
- 3.07 CONSTRUCTION
- 3.08 REPAIR/RESTORATION
- 3.09 RE-INSTALLATION
- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

**SUBSTITUTION REQUEST FORM**

Date: \_\_\_\_\_

Attn: \_\_\_\_\_

PJHM Architects, Inc.  
24461 Ridge Route Drive, Suite 100  
Laguna Hills, CA 92653

Architect's Project No.: \_\_\_\_\_

Project: \_\_\_\_\_

Permit/Application No.: \_\_\_\_\_

The undersigned requests consideration of the following substitution:

Specified Item: \_\_\_\_\_

(Drawing Sheet/Detail No., Specification Section, Description, etc.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Proposed Substitution:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Statement of Cause:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Special Note: Modifications to any language contained in this document is unacceptable. If modifications are made, the entire substitution package will be returned without review.

We have attached the following submittal checklist for your use, verify all items are included with your substitution request submittal.

- Substitution request has been submitted not later than seven (7) days prior to the bid deadline specified in the Notice Inviting Bids.

Notice Inviting Bids Date: \_\_\_\_\_ Substitution Request Date: \_\_\_\_\_

- Product description, specifications, drawings, photographs, performance and test data adequate for evaluation of the requests with applicable portions of the data clearly identified, manufacturer's literature, samples, names and address of the manufacturer's representative have all been provided.
- Complete documentation of all regulatory approvals required by the Contract Documents for the proposed substitution.
- Itemized comparison/analysis of proposed substitution with that of the specified product.
- Detailed cost summary of the change, if any, to the Contract Sum.
- Evaluation of the effect of the proposed substitution on the construction schedule and impact on completion date.
- Description of changes to the Contract Documents which proposed substitution will require for its proper installation.
- Manufacturer's Warranty comparison between the specified manufacturer and the proposed manufacturer.

The undersigned states that the following paragraphs, unless modified on the attachments, are correct:

- A. The proposed substitution does not affect dimensions shown on the Drawings.
- B. The undersigned will pay all costs for changes to the building design, including engineering design, detailing and construction costs, and LAHJ review/approval fees caused by the requested substitution.
- C. The proposed substitution will have no adverse affect on other trades or specified warranty requirements.
- D. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance and quality of the proposed substitution are equivalent or superior to the specified item.

Submitted By:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Firm/Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Date: \_\_\_\_\_

Approved by (ARCHITECT):

Approved by (OWNER):

Name: \_\_\_\_\_ Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

(ARCHITECT to include submittal approval stamp)

END OF SECTION

**SECTION 01 31 00  
PROJECT MANAGEMENT AND COORDINATION**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Coordination.
  - 2. Field engineering.
  - 3. Pre-construction conference.
  - 4. Progress meetings.
  - 5. Pre-installation conferences.
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

- A. Coordination
  - 1. Coordinate scheduling, submittals, and work of the various sections of the specifications to assure efficient and orderly sequence of installation of interdependent construction elements with provisions for accommodating items installed later.
  - 2. Prior to commencement of a particular type or kind of work, examine relevant information, Contract Documents and subsequent data issued to the project.
  - 3. Verify that utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to and placing in service, such equipment.
  - 4. Coordinate space requirements and installation of mechanical and electrical work, which are indicated diagrammatically on drawings. Follow routing shown for pipes, ducts and conduit, as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance and for repairs.
  - 5. In finished areas, except as otherwise indicated, conceal pipes, ducts and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
  - 6. In locations where several elements of mechanical and electrical work must be sequenced and positioned with precision in order to fit into available space, prepare coordination drawings showing the actual conditions required for the installation. Prepare coordination drawings prior to purchasing, fabricating or installing of the elements required to be coordinated.

7. Closing up of walls, roofs, concealed spaces, partitions, or furred spaces, backfilling and other covering up operations shall not proceed until all enclosed or covered work and inspections have been completed. Verify before proceeding.
  8. Coordinate completion and clean up of work of separate sections in preparation for substantial completion (and for portions of work designated for OWNER'S full and/or partial occupancy).
  9. After OWNER'S occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents to minimize disruption of OWNER'S activities.
  10. Coordinate all utility company work in accordance with the General Conditions.
- B. Field Engineering (If applicable to project scope)
1. CONTRACTOR shall employ a Land Surveyor, registered in the State of California and acceptable to the ARCHITECT.
  2. Control datum for survey is that established by OWNER provided survey. CONTRACTOR is to locate and protect survey control and reference points.
  3. Refer to Section 01 71 23 Field Engineering for limits of work for CONTRACTOR and OWNER.
- C. Pre-Construction Conference
1. OWNER shall schedule a conference immediately after receipt of fully executed Contract Documents prior to project mobilization.
  2. Mandatory Attendance: OWNER, ARCHITECT, CONTRACTORS and CONTRACTOR'S Job Superintendent.
  3. Optional Attendance: ARCHITECT'S consultants, subcontractors and utility company representatives.
  4. OWNER will preside at conference. ARCHITECT shall record meeting minutes and distribute copies through the OWNER.
  5. Agenda:
    - a. Execution of OWNER-CONTRACTOR Agreement.
    - b. Issue Notice to Proceed.
    - c. Submission of executed bonds and insurance certificates.
    - d. Distribution of Contract Documents.
    - e. Submission of list of subcontractors, list of products, schedule of values, project schedule, and submittal schedule.
    - f. Designation of responsible personnel representing the parties.
    - g. Procedures and processing of field decision, submittals, substitutions, applications for payments, proposal request, change orders and contract closeout procedures.
    - h. Scheduling.
- D. Job Start Meeting
1. After the OWNER awards the contract, and prior to the commencement of the work, a mandatory Job Start meeting (Pre-Job conference) shall be conducted by the OWNER with the CONTRACTOR and those subcontractors listed in its bid documents.
- E. Progress Meetings
1. ARCHITECT will schedule and administer meetings throughout progress of the work at bi-monthly (Every two weeks) intervals or more frequently if needed.



2. ARCHITECT will make arrangements for meetings, prepare agenda and preside at meetings. ARCHITECT will record minutes (Field Reports) and distribute copies.
3. Attendance required: OWNER, ARCHITECT, and CONTRACTOR. CONTRACTOR'S attendance is mandatory.
4. Minimum Agenda Items
  - a. Review minutes of previous meetings (Field Reports).
  - b. Review work progress.
  - c. Field observations, problems, and decisions.
  - d. Identification of problems which impede planned progress.
  - e. Review of submittals, schedule, and status of submittals.
  - f. Review of off-site fabrication and delivery schedules.
  - g. Maintenance of progress schedule.
  - h. Corrective measures to regain projected schedules.
  - i. Planned progress during succeeding work period.
  - j. Coordination of projected progress.
  - k. Maintenance of quality and work standards.
  - l. Effect of proposed changes on progress schedule and coordination.
  - m. Other business relating to work.
- F. Pre-Installation Conference
  1. When required in individual specification sections, convene a pre-installation conference prior to commencing work of the section.
  2. Require attendance of parties directly affecting, or affected by, work of the specific section.
  3. Notify ARCHITECT through OWNER at least five (5) days in advance of meeting date.
  4. CONTRACTOR shall prepare agenda, preside at conference, record minutes and distribute copies within two (2) days after conference to participants
  5. Review conditions of installation, preparation and installation procedures and coordination with related work.

- 1.05 SUBMITTALS
- 1.06 QUALITY ASSURANCE
- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
- 1.12 SYSTEM STARTUP
- 1.13 OWNER'S INSTRUCTIONS
- 1.14 COMMISSIONING
- 1.15 MAINTENANCE

**PART 2 PRODUCTS**

- 2.01 MANUFACTURERS
- 2.02 EXISTING PRODUCTS
- 2.03 MATERIALS
- 2.04 MANUFACTURED UNITS
- 2.05 EQUIPMENT
- 2.06 COMPONENTS

**PROJECT MANAGEMENT AND COORDINATION**

- 2.07 ACCESSORIES
- 2.08 MIXES
- 2.09 FABRICATION
- 2.10 FINISHES
- 2.11 SOURCE QUALITY CONTROL

**PART 3 EXECUTION**

- 3.01 INSTALLERS
- 3.02 EXAMINATION
- 3.03 PREPARATION
- 3.04 ERECTION
- 3.05 INSTALLATION
- 3.06 APPLICATION
- 3.07 CONSTRUCTION
- 3.08 REPAIR/RESTORATION
- 3.09 RE-INSTALLATION
- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 32 16  
CONSTRUCTION PROGRESS SCHEDULE**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Construction Progress Schedule Procedures
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
  - A. 01 11 00 Summary of Work
  - B. 01 20 00 Price and Payment Procedures
  - C. 01 25 00 Substitution Procedures
  - D. 01 31 00 Project Management and Coordination
  - E. 01 33 00 Submittal Procedures
  - F. 01 77 00 Closeout Procedures
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

- A. Schedule Submittals
  - 1. **CONTRACTOR** shall submit Construction Progress Schedules as follows:
    - a. Preliminary Schedule: Submit a preliminary Baseline Schedule within fourteen days after Notice of Award. OWNER will review the Preliminary Schedule and return comments within ten workdays.
    - b. Initial Schedule: Revise the preliminary Schedule and resubmit within ten days, to provide the Project's Baseline Schedule.
    - c. Weekly Schedule Update: While retaining the Baseline Schedule, revise copies to show actual construction progress to date, and submit at scheduled weekly dates, or as otherwise required by the OWNER.
    - d. In the event that the progress of the Work or the sequencing of the activities of the Work differs significantly from that indicated in the Baseline Schedule, the Contractor shall submit a Recovery Schedule to the OWNER, demonstrating the CONTRACTOR'S plan to recover lost time, achieve all contractual milestones, and complete the work within the contract time. Appropriate recovery actions include, but are not limited to, assignments of additional labor or equipment, shift or overtime work, expediting of submittals or deliveries, overlapping of activities, or sequencing changes to increase activity concurrence. An accompanying narrative shall describe the cause of the problems and the

actions planned by the Contractor to recover the schedule. The OWNER will review the Recovery Schedule and provide comments, leading to approval of the schedule.

- e. With each Application for Payment.

1.06 QUALITY ASSURANCE

1.07 DELIVERY, STORAGE, AND HANDLING

1.08 PROJECT CONDITIONS

1.09 SEQUENCING

1.10 SCHEDULING

A. Form and Content of Schedules

1. Schedule shall be in the form of a computer-generated Critical Path Method (CPM) or Gantt format showing all construction activities required to complete the Work of the Project within the Contract Time and any OWNER-defined Milestones.
2. CONTRACTOR shall utilize an established standard, centralized, Internet-based scheduling program.
3. Schedule shall include but not be limited to the following:
  - a. Complete sequence, with start and completion dates, of each and every activity of construction or element of the construction process.
  - b. Phases of construction, with start and completion Milestones, as well as any other Milestones defined by the OWNER.
  - c. Critical submittals, including OWNER and ARCHITECT review and approval periods, including 15 workdays for the first submittal (10 days for resubmittal), 21 days when the ARCHITECT'S consultants must review, and 30 days for review of submittals of Structural Steel, Door Hardware, and Hollow Metal Doors and Frames.
  - d. Procurement, manufacture and/or fabrication; testing and delivery to the Project site of special long-lead-time material and equipment.
  - e. Operational start-up, test and balance, performance testing, and training of operators for systems and equipment; for Substantial Completion and for Final Completion.
  - f. Temporary facilities; construction of mock-ups, prototypes and/or samples; punch list; interfaces with Separate Work Contracts; and regulatory agency approvals and permits required for performance of the Work.
  - g. Deferred Approvals, allowing a minimum of ninety (90) days for all Deferred Approval items.
  - h. OWNER interfaces and Owner-Furnished equipment, either installed by CONTRACTOR (O.F.C.I.) or by OWNER (O.F.O.I.).
  - i. Decision dates for products specified by allowances, selection of finishes, and other ARCHITECT- or OWNER-furnished schedules or decisions.
4. Schedule shall be updated periodically as specified to show progress of each activity and all changes since the previous submission, including:
  - a. Major changes in scope.

CONSTRUCTION PROGRESS SCHEDULE

- b. Activities modified since previous updating.
  - c. Revised projections due to changes.
  - d. Other identifiable changes.
- B. Schedule Requirements
1. Schedule shall represent CONTRACTOR'S plan to complete the Work within the Milestones and/or Contract Time. However:
    - a. A schedule extending beyond the Milestones and/or Contract Time will not be acceptable.
    - b. A schedule indicating Work completed in less than the Milestones and/or Contract Time will not be acceptable. CONTRACTOR shall indicate any available float.
    - c. A schedule found unacceptable by the OWNER shall be revised by CONTRACTOR and resubmitted within five (5) days.
  2. Schedule shall be in sufficient detail to assure adequate planning and execution of Work, including but not limited to:
    - a. Start and completion of all items of Work and their major components, and all designated dates identified as Milestones by OWNER.
    - b. Construction activity durations shall be limited to no more than two reporting periods, with exception of fabrication and procurement activities, unless approved otherwise by OWNER. Activity durations shall be total of actual workdays to perform and complete that activity and shall not include consideration of weather impact on the activity.
    - c. Activities for procurement, delivery, and installation of equipment, materials and other supplies, including time for submittals, reviews and re-submittals. Include decision dates for selection of finishes.
    - d. Time for fabrication and delivery of manufactured products for the Work, showing interdependence of procurement and construction activities.
    - e. Identify each activity with applicable CSI Specification Division number, and coordinate with the CONTRACTOR'S approved "Schedule of Values." Include adequate breakdown of activities for the Mechanical and Electrical elements of the work, to enable accurate monitoring and to assure full coordination with OWNER'S operating personnel.
    - f. Each activity shall be capable of being cost and resource-loaded with the resulting cost total equal to the Contract Amount
    - g. Activities shall include all associated interface activities contained within the Contract Documents including, but not limited to, OWNER maintenance-and-operations activities
    - h. Each activity shall be defined to permit reasonable monitoring and evaluation of progress in performance of the Work.
  3. Notwithstanding acceptance of the Schedule, failure to identify and/or include any element of the Contract into the Schedule shall not release CONTRACTOR from obligation of completing all required Work in accordance with the Contract Completion Date or any Milestones.

4. Submittal of the Schedule shall constitute CONTRACTOR'S confirmation that the Schedule meets the requirements of the Contract Documents, and the Work will be executed in the sequence indicated in the Schedule.
5. If CONTRACTOR fails to comply with the specified requirements, OWNER reserves the right to engage an independent scheduling consultant and/or provide its own expertise to fulfill these requirements and shall be entitled to recover by assessment all incurred costs for the services from the CONTRACTOR.
6. Submittal of any Schedule is subject to review and acceptance by ARCHITECT and OWNER. OWNER retains the right to withhold progress payments in whole or part until CONTRACTOR submits a Schedule acceptable to OWNER.

- 1.11 WARRANTY
- 1.12 SYSTEM STARTUP
- 1.13 OWNER'S INSTRUCTIONS
- 1.14 COMMISSIONING
- 1.15 MAINTENANCE

## **PART 2 PRODUCTS**

- 2.01 MANUFACTURERS
- 2.02 EXISTING PRODUCTS
- 2.03 MATERIALS
- 2.04 MANUFACTURED UNITS
- 2.05 EQUIPMENT
- 2.06 COMPONENTS
- 2.07 ACCESSORIES
- 2.08 MIXES
- 2.09 FABRICATION
- 2.10 FINISHES
- 2.11 SOURCE QUALITY CONTROL

## **PART 3 EXECUTION**

- 3.01 INSTALLERS
- 3.02 EXAMINATION
- 3.03 PREPARATION
- 3.04 ERECTION
- 3.05 INSTALLATION
- 3.06 APPLICATION
- 3.07 CONSTRUCTION
- 3.08 REPAIR/RESTORATION
- 3.09 RE-INSTALLATION
- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

CONSTRUCTION PROGRESS SCHEDULE

01 32 16 - 4

**SECTION 01 33 00  
SUBMITTAL PROCEDURES**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Submittal Procedures.
  - 2. Shop Drawings.
  - 3. Product Data.
  - 4. Samples.
  - 5. Manufacturers' Instructions.
  - 6. Manufacturers' Certificates.
  - 7. Coordinated Drawings.
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

- A. Procedures
  - 1. CONTRACTOR shall submit a Schedule of Submittals, listing their required submission and review dates to the ARCHITECT for review and acceptance. The schedule shall allow sufficient time for checking by the ARCHITECT. In addition, the submittal schedule shall be incorporated into and coordinated with the construction progress schedule. Additional service fees will be required, paid by the CONTRACTOR at no cost to the OWNER, to the ARCHITECT for ARCHITECT'S review of out of sequence submittals, excessive resubmittal attempts, expedited review requests, and submittals not in conformance with the submittal schedule time limits.
  - 2. Transmit separate request for each submittal directly to the ARCHITECT.
    - a. Bind submittals sturdily, neatly label covers.
    - b. Include ARCHITECT'S job number as it appears on Contract Documents.
    - c. Include A.H.J. application or approval numbers.
    - e. Digital submissions will be accepted at the discretion of the ARCHITECT.
  - 3. Sequentially number the transmittal forms. Re-submittals are to have original number with the letter 'R' followed by revision number. Example Naming: Submittal 07 92 00 R2
  - 4. Identify Project, CONTRACTOR, subcontractor or supplier; pertinent Drawing sheet and detail number(s) and specification section number, as appropriate.

**SUBMITTAL PROCEDURES**

- a. Provide name and telephone number of individual who may be contacted for further information.
  5. Apply CONTRACTOR'S dated stamp with CONTRACTOR'S original signature or initials affixed thereto, certifying that review, 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. Stamped signatures or initials are not acceptable.
  6. Schedule submittals to expedite the Project. Coordinate submission of related items.
    - a. Make all submittals in accordance with the progress schedule and far enough in advance of scheduled dates of installation to provide required time for reviews for securing necessary approvals for possible revision and re-submittal and for placing orders and securing delivery.
  7. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of the completed Work.
  8. State effect of substitution on construction schedule and changes required in other work or products.
  9. Provide space for CONTRACTOR and ARCHITECT review stamps.
  10. Revise and re-submit submittals as required, identify all changes made since previous submittal with revision clouds and revision delta symbols.
  11. Distribute copies of reviewed submittals to concerned parties. Instruct parties to promptly report any inability to comply with provisions.
  12. Determine and verify all field dimensions and conditions, materials, catalog numbers and similar data.
  13. Coordinate as required with all trades and all public agencies involved.
  14. Unless otherwise specifically authorized by ARCHITECT, make all submittals in groups pertaining to specification sections, containing all associated items. ARCHITECT will reject partial submittals as not complying with the provisions of this section.
- A. Product Data
1. Submit eight (8) copies. Seven (7) copies will be retained by the ARCHITECT.
  2. Mark each copy to identify applicable products, models, options and other data. Supplement manufacturers' standard data to provide information unique to this Project.
  3. After review, distribute and provide copies for Record Documents.
- B. Shop Drawings
1. Submit newly prepared information, drawn to accurate scale. Highlight, encircle or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project will not be approved as Shop Drawings.
  2. Shop Drawings shall include fabrications and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:
    - a. Dimensions.

## SUBMITTAL PROCEDURES



- b. Identification of products and materials included.
  - c. Compliance with specified standards.
  - d. Notation of coordination requirements.
  - e. Notation of dimensions established by field measurement.
3. Sheet Size: Except for templates, patterns and similar full-size drawings, submit Shop Drawings on sheets at least 8½ inch x 11 inch, but not larger than 30 inch x 42 inch.
  4. The CONTRACTOR shall review, stamp with his approval as herein required, and submit with reasonable promptness and in orderly sequence, in accordance with the submittal schedule, all shop drawings required by the Contract Documents or subsequently by the ARCHITECT as covered by modifications. Shop drawings shall be properly identified. At the time of submission the CONTRACTOR shall inform the ARCHITECT in writing of any deviation in the shop drawings from the requirements of the Contract Documents.
  5. Stamp: Each page of shop drawings shall bear the CONTRACTOR'S stamp, which shall signify the CONTRACTOR'S representation that he/she has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained in the shop drawings. Each stamp shall be accompanied by a wet signature of the CONTRACTOR who may be contacted for information. Stamped signatures or initials are not acceptable.
  6. Method of Review: Make initial submittal of eight (8) hard copies of the shop drawings to the ARCHITECT. Comments or corrections will be noted and returned to the CONTRACTOR, who shall identify all changes made since the previous submittal and re-submit in the same manner. When reviewed, the shop drawings will be stamped and returned to the CONTRACTOR who shall make distribution of copies to his/her subcontractors.
  7. The ARCHITECT will review shop drawings with reasonable promptness so as not to cause any delay, but only for conformance with the design concept of the project and with the information given in the Contract Documents. The ARCHITECT'S favorable review of a separate item shall not indicate acceptance of an assembly in which the item functions.
  8. Submittal of shop drawings to the ARCHITECT shall be made by the CONTRACTOR with a dated transmittal form or letter and not by subcontractors or suppliers.
  9. The ARCHITECT'S review of shop drawings shall not relieve the CONTRACTOR of responsibility for any deviation from the requirements of the Contract Documents unless the CONTRACTOR has informed the ARCHITECT in writing of such deviation at the time of submission and the ARCHITECT has given written acceptance to the specific deviation, nor shall the ARCHITECT'S favorable review relieve the CONTRACTOR from responsibility for errors or omissions in the shop drawings.
  10. No portion of work requiring shop drawings shall be commenced until the shop drawings have been returned with a favorable review by the ARCHITECT.
- C. Samples

1. Submit samples to illustrate functional and aesthetic characteristics of the Product with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
  2. Submit samples of finishes from the full range of manufacturers' standard colors, textures and patterns for ARCHITECT selection or in custom colors selected.
  3. Include identification on each sample with full Project information.
  4. Submit a minimum of five (5) samples or as specified in individual sections of the specifications, four (4) of which will be retained by the ARCHITECT.
  5. Reviewed samples which may be used in the Work are indicated in individual specification Sections.
  6. Selection or rejection of samples will be made by the ARCHITECT in writing.
- D. Quality Assurance/Control Submittals
1. Design Data, Test Reports, Certificates, Manufacturers' Instructions, Manufacturers' Field Reports, Qualification Statements
    - a. When specified in individual specification sections, submit manufacturers' printed instructions for delivery, storage, assembly, installation, start-up, adjusting and finishing in quantities specified for Product Data.
    - b. Identify conflicts between manufacturers' instructions and Contract Documents.
    - c. When specified in individual specification sections, submit manufacturers' certificate to ARCHITECT for review in quantities specified for Product Data.
    - d. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits and certifications as appropriate.
    - e. Certificates may be recent or previous test results on material or product, but must be acceptable to ARCHITECT.
- E. Closeout Submittals
1. When specified in individual specification sections, submit eight (8) copies. Seven (7) copies will be retained by the ARCHITECT.
  2. Mark each copy to identify applicable products, models, options and other data. Supplement manufacturers' standard data to provide information unique to this Project.
  3. After review, distribute and provide copies for Record Documents.

- 1.06 QUALITY ASSURANCE
- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
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- 1.11 WARRANTY
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  - 4. Code and Standards
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- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

The standards are referenced in these specifications by acronyms which are listed below with the full name of the sponsoring organization and the address from which copies may be obtained.

AA Aluminum Association  
900 19th Street NW, Suite 300  
Washington, DC 20006  
[www.aluminum.org](http://www.aluminum.org)

AABC Associated Air Balance Council  
1518 "K" Street, NW, Suite 503  
Washington, DC 20005  
[www.aabchq.com](http://www.aabchq.com)

AAMA American Architectural Manufacturers Association  
1827 Walden Office Square, Suite 104  
Schaumburg, IL 60173-4268  
[www.aamanet.org](http://www.aamanet.org)

AASHTO American Association of State Highway and Transportation Officials  
444 North Capitol Street, Suite 249  
Washington, DC 20001  
[www.aashto.org](http://www.aashto.org)

AATCC American Association of Textile Chemists and Colorists  
P.O. Box 12215  
One Davis Drive  
Research Triangle Park, NC 27709-2215  
[www.aatcc.org](http://www.aatcc.org)

ACI American Concrete Institute  
P.O. Box 9094  
Farmington Hills, MI 48333-9094  
[www.aci-int.org](http://www.aci-int.org)

ACPA American Concrete Pipe Association  
222 West Las Colinas Blvd., Suite 641  
Irving, TX 75039-5423  
[www.concrete-pipe.org](http://www.concrete-pipe.org)

ADC Air Diffusion Council  
104 South Michigan Avenue, Suite 1500  
Chicago, IL 60603

AF&PA American Forest and Paper Association  
1111 19th Street, NW, Suite 800  
Washington, DC 20036  
[www.afandpa.org](http://www.afandpa.org)

AGA American Gas Association  
400 North Capitol Street N.W.  
Washington, D.C. 20001  
[www.aga.com](http://www.aga.com)

AHA American Hardboard Association  
1210 West Northwest Hwy  
Palatine, IL 60067-1897  
[www.hardboard.org](http://www.hardboard.org)

AHAM Association of Home Appliance Manufacturers  
1111 19th Street NW, #402  
Washington, DC 20036  
[www.aham.org](http://www.aham.org)

AI Asphalt Institute  
Research Park Drive  
P.O. Box 14052  
Lexington, KY 40512-4052  
[www.asphaltinstitute.org](http://www.asphaltinstitute.org)

AIA The American Institute of Architects  
1735 New York Avenue, NW  
Washington, DC 20006-5292  
[www.e-architect.com](http://www.e-architect.com)

AISC American Institute of Steel Construction  
One East Wacker Drive, Suite 3100  
Chicago, IL 60601-2001  
[www.aisc.org](http://www.aisc.org)

AISI American Iron and Steel Institute  
P.O. Box 4321  
Chestertown, MD 21690  
[www.steel.org](http://www.steel.org)

AITC American Institute of Timber Construction  
7012 South Revere Parkway, Suite 140  
Englewood, CO 80112  
[www.aitc-glulam.org](http://www.aitc-glulam.org)

ALCA Associated Landscape Contractors of America  
12200 Sunrise Valley Drive, Suite 150  
Reston, VA 20191  
[www.alca.org](http://www.alca.org)

ALI Associated Laboratories, Inc.  
P.O. Box 152837  
1323 Wall Street  
Dallas, TX 75315

ALSC American Lumber Standards Committee  
P.O. Box 210  
Germantown, MD 20875

AMCA Air Movement and Control Association  
International, Inc.  
30 West University Drive  
Arlington Heights, IL 60004-1893  
[www.amca.org](http://www.amca.org)

ANLA American Nursery and Landscape Association  
1250 "I" Street, NW, Suite 500  
Washington, DC 20005-3922  
[www.anla.org](http://www.anla.org)

ANSI American National Standards Institute  
11 West 42nd Street, 13th Floor  
New York, NY 10036-8002  
[www.ansi.org](http://www.ansi.org)

APA APA-The Engineered Wood Association  
2130 Barret Park Drive, Suite 102  
Kennesaw, GA 30144-3681  
[www.apawood.org](http://www.apawood.org)

APA Architectural Precast Association  
6710 Winkler Road, Suite 8  
Fort Myers, FL 33919  
[www.archprecast.org](http://www.archprecast.org)

ARI Air Conditioning and Refrigeration Institute  
4301 Fairfax Drive, Suite 425  
Arlington, VA 22203  
[www.ari.org](http://www.ari.org)

ARMA Asphalt Roofing Manufacturers Association  
1156-15th Street, NW, Suite 900  
Washington, DC 20005  
[www.asphaltroofing.org](http://www.asphaltroofing.org)

ASA Acoustical Society of America  
500 Sunnyside Blvd.  
Woodbury, NY 11797  
[www.acoustics.org](http://www.acoustics.org)

ASCE American Society of Civil Engineers  
World Headquarters (703) 295-6300  
1801 Alexander Bell Drive  
Reston, VA 20190-4400  
[www.asce.org](http://www.asce.org)

ASHRAE American Society of Heating, Refrigerating and Air Conditioning Engineers  
1791 Tullie Circle, NE  
Atlanta, GA 30329-2305  
[www.ashrae.org](http://www.ashrae.org)

ASLA American Society of Landscape Architects  
4401 Connecticut Avenue, NW, Fifth Floor  
Washington, DC 20008-2369  
[www.asla.org](http://www.asla.org)

ASME ASME International  
Three Park Avenue  
New York, NY 10016-5990  
[www.asme.org](http://www.asme.org)

ASPE American Society of Plumbing Engineers  
3617 Thousand Oaks Blvd., Suite 210  
Westlake, CA 91362-3649

ASQC American Society for Quality  
611 East Wisconsin Avenue  
Milwaukee, WI 53201-3005  
[www.asq.org](http://www.asq.org)

ASSE American Society of Sanitary Engineers  
28901 Clemens Road  
Westlake, OH 44145  
[www.asse-plumbing.org](http://www.asse-plumbing.org)

ASTM American Society for Testing and Materials  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959  
[www.astm.org](http://www.astm.org)

AWCI Association of the Wall and Ceiling Industries - International  
307 East Annandale Road, Suite 200  
Falls Church, VA 22042-2433  
[www.awci.org](http://www.awci.org)

AWI Architectural Woodwork Institute  
1952 Isaac Newton Square  
Reston, VA 20190  
[www.awinet.org](http://www.awinet.org)

AWPA American Wood-Preservers' Association  
3246 Fall Creek Highway, Suite 1900  
Granbury, TX 76049-7979

AWS American Welding Society  
550 NW LeJeune Road  
Miami, FL 33126  
[www.amweld.org](http://www.amweld.org)

AWWA American Water Works Association  
6666 West Quincy Avenue  
Denver, CO 80235  
[www.awwa.org](http://www.awwa.org)

BHMA Builders' Hardware Manufacturers Association  
355 Lexington Avenue, 17th Floor  
New York, NY 10017-6603

BIA Brick Institute of America  
11490 Commerce Park Drive  
Reston, VA 22091-1525  
[www.bia.org](http://www.bia.org)

CE Corps of Engineers (U.S. Department of the Army)  
20 Massachusetts Avenue, NW  
Washington, DC 20314  
CRD standards are available from:

U.S. Army Corps of Engineers  
Waterways Experiment Station  
Technical Report Distribution Section  
Services Branch, TIC  
3909 Halls Ferry Road  
Vicksburg, MS 39180-6199



CBM Certified Ballast Manufacturers Association  
1422 Euclid Avenue, Suite 402  
Cleveland, OH 44115-2094

CCC Carpet Cushion Council  
P.O. Box 546  
Riverside, CT 06878-0546  
[www.carpetcushion.org](http://www.carpetcushion.org)

CDA Copper Development Association  
260 Madison Avenue, 16th Floor  
New York, NY 10016-2401  
[www.copper.org](http://www.copper.org)

CGA Compressed Gas Association  
1725 Jefferson Davis Highway, Suite 1004  
Arlington, VA 22202-4102  
[www.cganet.com](http://www.cganet.com)

CISCA Ceilings & Interior Systems Construction Association  
1500 Lincoln Highway, Suite 202  
St. Charles, IL 60174  
[www.cisca.org](http://www.cisca.org)

CISPI Cast Iron Soil Pipe Institute  
5959 Shallowford Road, Suite 419  
Chattanooga, TN 37421  
[www.cispi.org](http://www.cispi.org)

CLFMI Chain Link Fence Manufacturers Institute  
10015 Old Columbia Road, #B-215  
Columbia, MD 21046  
[www.chainlinkinfo.org](http://www.chainlinkinfo.org)

CPSC Consumer Product Safety Commission  
East West Towers  
4330 East-West Highway  
Bethesda, MD 20814

CPPA Corrugated Polyethylene Pipe Association  
432 North Superior Street  
Toledo, OH 43604

CRA California Redwood Association  
405 Enfrente Drive, Suite 200  
Novato, CA 94949  
[www.calredwood.org](http://www.calredwood.org)

CRI Carpet and Rug Institute  
310 South Holiday Avenue  
Dalton, GA 30722-2048  
[www.carpet-rug.com](http://www.carpet-rug.com)

CRSI Concrete Reinforcing Steel Institute  
933 North Plum Grove Road  
Schaumburg, IL 60173-4758  
[www.crsi.org](http://www.crsi.org)

CSSB Cedar Shake and Shingle Bureau  
515 116th Avenue, NE, Suite 275  
Bellevue, WA 98004-5294  
[www.cedarbureau.org](http://www.cedarbureau.org)

CTI Ceramic Tile Institute of America  
12061 West Jefferson Blvd.  
Culver City, CA 90230-6219  
[www.ceramic-tile.com](http://www.ceramic-tile.com)

DHI Door and Hardware Institute  
14170 Newbrook Drive  
Chantilly, VA 20151-2223  
[www.dhi.org](http://www.dhi.org)

DIPRA Ductile Iron Pipe Research Association  
245 Riverchase Parkway East, Suite O  
Birmingham, AL 35244  
[www.dipra.org](http://www.dipra.org)

DOC Department of Commerce  
5285 Port Royal Road  
Springfield, VA 22161

DOT Department of Transportation  
400 Seventh Street, SW  
Washington, DC 20590

EIMA EIFS Industry Members Association  
402 North Fourth Street, Suite 102  
Yakima, WA 98901-2470  
[www.eifsfacts.com](http://www.eifsfacts.com)

EJMA Expansion Joint Manufacturers Association  
25 North Broadway  
Tarrytown, NY 10591-3201  
[www.ejma.org](http://www.ejma.org)

EPA Environmental Protection Agency  
401 "M" Street, SW  
Washington, DC 20460  
[www.epa.gov](http://www.epa.gov)

FCICA Floor Covering Installation Contractors Association  
7439 Millwood Drive  
West Bloomfield, MI 48322-1234  
[www.fcica.com](http://www.fcica.com)

FM Factory Mutual  
1151 Boston-Providence Turnpike  
P.O. Box 9102  
Norwood, MA 02062-9102  
[www.fmglobal.com](http://www.fmglobal.com)

FCCHR Foundation for Cross-Connection Control and Hydraulic Research  
University of Southern California  
KAP-200 University Park MC-2531  
Los Angeles, CA 90089-25319

FS Federal Standards  
(Available from GSA)  
470 East L'Enfant Plaza, SW, Suite 8100  
Washington, DC 20407

FTI Facing Tile Institute  
% Stark Ceramics  
P.O. Box 8880  
Canton, OH 44711

GA Gypsum Association  
810 First Street NE, Suite 510  
Washington, DC 20002  
[www.gypsum.org](http://www.gypsum.org)

GANA Glass Association of North America  
3310 SW Harrison Street  
Topeka, KS 66611-2279  
[www.glasswebsite.com/gana](http://www.glasswebsite.com/gana)

HMA Hardwood Manufacturers Association  
400 Penn Center Blvd., Suite 530  
Pittsburgh, PA 15235-5605  
[www.hardwood.org](http://www.hardwood.org)

HPVA Hardwood Plywood and Veneer Association  
1825 Michael Farraday Drive  
P.O. Box 2789  
Reston, VA 20195  
[www.hpva.org](http://www.hpva.org)

IEEE Institute of Electrical and Electronic Engineers  
445 Hoes Lane (212) 705-7900  
Piscataway, NJ 08855-1331  
[www.standards.ieee.org](http://www.standards.ieee.org)

IESNA Illuminating Engineering Society of North America  
120 Wall Street, 17th Floor  
New York, NY 10005-4001  
[www.iesna.org](http://www.iesna.org)

ILI Indiana Limestone Institute of America  
Stone City Bank Building, Suite 400  
Bedford, IN 47421  
[www.iliai.com](http://www.iliai.com)

ITS Intertek Testing Services  
P.O. Box 2040  
3933 US Route 11  
Cortland, NY 13045-7902  
[www.itsglobal.com](http://www.itsglobal.com)

KCMA Kitchen Cabinet Manufacturers Association  
1899 Preston White Drive  
Reston, VA 22091-4326  
[www.kcma.org](http://www.kcma.org)

LMA Laminating Materials Association  
116 Lawrence Street  
Hillsdale, NJ 07642-2730  
[www.lma.org](http://www.lma.org)

MBMA Metal Building Manufacturer's Association  
1300 Sumner Avenue  
Cleveland, OH 44115-2851  
[www.mbma.org](http://www.mbma.org)

MCAA Mechanical Contractors Association of America  
1385 Piccard Drive  
Rockville, MD 20850-4329  
[www.mcaa.org](http://www.mcaa.org)

MFMA Maple Flooring Manufacturers Association  
60 Revere Drive, Suite 500  
Northbrook, IL 60062  
[www.maplefloor.org](http://www.maplefloor.org)

MIA Marble Institute of America  
33505 State Street  
Farmington, MI 48335  
[www.marble-institute.com](http://www.marble-institute.com)

MIA Masonry Institute of America  
2550 Beverly Blvd.  
Los Angeles, CA 90057  
[www.masonryinstitute.org](http://www.masonryinstitute.org)

ML/SFAMetal Lath/Steel Framing Association  
(A Division of the NAAMM)  
8 South Michigan Avenue, Suite 1000  
Chicago, IL 60603

MSS Manufacturers Standardization Society for the Valve and Fittings Industry  
127 Park Street, NE  
Vienna, VA 22180-4602  
[www.mss-hq.com](http://www.mss-hq.com)

NAA National Arborist Association  
P.O. Box 1094 (603) 673-3311  
Amherst, NH 03031-1094  
[www.natlarb.com](http://www.natlarb.com)

NAAMM National Association of Architectural  
Metal Manufacturers  
8 South Michigan Avenue, Suite 1000  
Chicago, IL 60603  
[www.naamm.org](http://www.naamm.org)

NAIMA North American Insulation Manufacturers Association  
44 Canal Center Plaza, Suite 310  
Alexandria, VA 22314  
[www.naima.org](http://www.naima.org)

NAPA National Asphalt Pavement Association  
NAPA Building  
5100 Forbes Blvd.  
Lanham, MD 20706-4413

NBGQA National Building Granite Quarries Association  
1220 "L" Street, NW #100-167  
Washington, DC 20005  
[www.nbgqa.com](http://www.nbgqa.com)

NCMA National Concrete Masonry Association  
2302 Horse Pen Road  
Herndon, VA 20171-3499  
[www.ncma.org](http://www.ncma.org)

NCPI National Clay Pipe Institute  
P.O. Box 759  
253-80 Center Street  
Lake Geneva, WI 53147  
[www.ncpi.org](http://www.ncpi.org)

NCRPM National Council on Radiation Protection  
and Measurements  
7910 Woodmont Ave., Suite 800  
Bethesda, MD 20814-3095  
[www.ncrp.com](http://www.ncrp.com)

NCSPA National Corrugated Steel Pipe Association  
1255 23rd Street, NW, Suite 850  
Washington, DC 20037  
[www.ncspa.org](http://www.ncspa.org)

NEBB National Environmental Balancing Bureau  
8575 Grovemont Circle  
Gaithersburg, MD 20877-4121  
[www.nebb.org](http://www.nebb.org)

NECA National Electrical Contractors Association  
3 Bethesda Metro Center, Suite 1100  
Bethesda, MD 20814-5372  
[www.necanet.org](http://www.necanet.org)

NEI National Elevator Industry  
185 Bridge Plaza North, Suite 310  
Fort Lee, NJ 07024

NEMA National Electrical Manufacturers' Association  
1300 North 17th Street, Suite 1847  
Rosslyn, VA 22209  
[www.nema.org](http://www.nema.org)

NFPA National Fire Protection Association  
One Batterymarch Park  
P.O. Box 9101  
Quincy, MA 02269-9101  
[www.nfpa.org](http://www.nfpa.org)

NHLA National Hardwood Lumber Association  
P.O. Box 34518  
Memphis, TN 38184-0518  
[www.natlhardwood.org](http://www.natlhardwood.org)

NIA National Insulation Association  
99 Canal Center Plaza, Suite 222  
Alexandria, VA 22314  
[www.insulation.org](http://www.insulation.org)

NOFMA National Oak Flooring Manufacturers Association  
P.O. Box 3009  
Memphis, TN 38173-0009  
[www.nofma.org](http://www.nofma.org)

NPA National Particleboard Association  
18928 Premiere Court  
Gaithersburg, MD 20879-1569  
[www.pbmdf.com](http://www.pbmdf.com)

NPCA National Paint and Coatings Association  
1500 Rhode Island Avenue, NW  
Washington, DC 20005-5597  
[www.paint.org](http://www.paint.org)

NRCA National Roofing Contractors Association  
P.O. Box 809261  
Chicago, IL 60680-9261  
[www.roofonline.org](http://www.roofonline.org)

NRMCA National Ready Mixed Concrete Association  
900 Spring Street  
Silver Spring, MD 20910  
[www.nrmca.org](http://www.nrmca.org)

NSA National Stone, Sand and Gravel Association  
2101 Wilson Blvd.  
Arlington, VA 22201  
[www.nssga.org](http://www.nssga.org)

NSF NSF International  
P.O. Box 130140  
Ann Arbor, MI 48113-0140  
[www.nsf.org](http://www.nsf.org)

NSSEA National School Supply and Equipment Association  
8300 Colesville Road, Suite 250  
Silver Spring, MD 20910  
[www.nssea.org](http://www.nssea.org)

NTMA National Terrazzo and Mosaic Association  
3166 Des Plaines Avenue, Suite 121  
Des Plaines, IL 60018  
[www.ntma.com](http://www.ntma.com)

NUSIG National Uniform Seismic Installation Guidelines  
12 Lahoma Court  
Alamo, CA 94526

NWWDA The Window and Door Manufacturer's Door Association  
1400 East Touhy Avenue, Suite 470  
Des Plaines, IL 60018  
[www.wdma.org](http://www.wdma.org)

OSHA Occupational Safety and Health Administration  
(U.S. Department of Labor)  
200 Constitution Avenue, NW  
Washington, DC 20210

PCA Portland Cement Association  
5420 Old Orchard Road  
Skokie, IL 60077-1083  
[www.portcement.org](http://www.portcement.org)

PCI Precast/Prestressed Concrete Institute  
175 W. Jackson Blvd.  
Chicago, IL 60604  
[www.pci.org](http://www.pci.org)

PDCA Painting and Decorating Contractors of America  
3913 Old Lee Highway, Suite 33-B  
Fairfax, VA 22030  
[www.pdca.com](http://www.pdca.com)

PDI Plumbing and Drainage Institute  
45 Bristol Drive (508) 230-3516  
South Easton, MA 02375  
[www.pdionline.org](http://www.pdionline.org)

PEI Porcelain Enamel Institute  
4004 Hillsboro Pike, Suite 224-B  
Nashville, TN 37215  
[www.porcelainenamel.com](http://www.porcelainenamel.com)

RFCI Resilient Floor Covering Institute  
401 East Jefferson #102  
Rockville, MD 20850  
[www.rfci.com](http://www.rfci.com)

RIS Redwood Inspection Service  
c/o California Redwood Association  
405 Enfrente Drive, Suite 200  
Novato, CA 94949-7206  
[www.calredwood.org](http://www.calredwood.org)

SDI Steel Deck Institute  
P.O. Box 25  
Fox River Grove, IL 60012  
[www.sdi.org](http://www.sdi.org)

SDI Steel Door Institute  
30200 Detroit Road  
Cleveland, OH 44145-1967  
[www.steeldoor.org](http://www.steeldoor.org)

SIGMA Sealed Insulating Glass Manufacturers Association  
401 N. Michigan Avenue  
Chicago, IL 60611-4267

SJI Steel Joist Institute  
3127 Tenth Avenue, North Ext.  
Myrtle Beach, SC 29577-6760  
[www.steeljoist.org](http://www.steeljoist.org)

SMA Stucco Manufacturers Association  
14006 Ventura Blvd.  
Sherman Oaks, CA 91403



SMACNA Sheet Metal and Air Conditioning Contractors  
National Association, Inc.  
4201 Lafayette Center Drive  
Chantilly, VA 20151-1209  
[www.smacna.org](http://www.smacna.org)

SPI Society of the Plastics Industry, Inc.  
Spray Polyurethane Division  
1801 "K" Street, NW, Suite 600K  
Washington, DC 20006  
[www.socplas.org](http://www.socplas.org)

SPIB Southern Pine Inspection Bureau  
4709 Scenic Highway  
Pensacola, FL 32504-9094  
[www.spib.org](http://www.spib.org)

SPRI (Formerly: Single Ply Roofing Institute)  
200 Reservoir Street, Suite 309A  
Needham, MA 02494  
[www.spri.org](http://www.spri.org)

SSPC The Society for Protective Coatings  
40 24th Street, Sixth Floor  
Pittsburgh, PA 15222-4656  
[www.sspc.org](http://www.sspc.org)

SWI Steel Window Institute  
c/o Thomas Associates, Inc.  
1300 Sumner Avenue  
Cleveland, OH 44115-2851  
[www.steelwindows.com](http://www.steelwindows.com)

TCA Tile Council of America  
100 Clemson Research Blvd.  
Anderson, SC 29625  
[www.tileusa.com](http://www.tileusa.com)

TPI Truss Plate Institute  
583 D'Onofrio Drive, Suite 200  
Madison, WI 53719

TPI Turfgrass Producers International  
1855-A Hicks Road  
Rolling Meadows, IL 60008  
[www.turfgrassod.org](http://www.turfgrassod.org)

UL Underwriters Laboratories, Inc.  
333 Pfingston Road  
Northbrook, IL 60062  
[www.ul.com](http://www.ul.com)

UNI Uni-Bell PVC Pipe Association  
2655 Villa Creek Drive, Suite 155  
Dallas, TX 75234  
[www.uni-bell.org](http://www.uni-bell.org)

USDA U.S. Department of Agriculture  
14th Street and Independence Avenue, SW  
Washington, DC 20250

USPS U.S. Postal Service  
475 L'Enfant Plaza, SW  
Washington, DC 20260-0010

WA Wallcoverings Association  
401 North Michigan Avenue  
Chicago, IL 60611-4267  
[www.wallcoverings.org](http://www.wallcoverings.org)

WCLIB West Coast Lumber Inspection Bureau  
P.O. Box 23145  
Portland, OR 97281-3145  
[www.wclib.org](http://www.wclib.org)

WCMA Window Covering Manufacturers Association  
355 Lexington Avenue, 17th Floor  
New York, NY 10017-6603

WIC Woodwork Institute of California  
P.O. Box 980247  
West Sacramento, CA 95798-0247  
[www.wicnet.org](http://www.wicnet.org)

WLPDIA Western Lath/Plaster/Drywall Industries Association  
8635 Navajo Road  
San Diego, CA 92119

WMMPA Wood Molding & Millwork Producers Association  
507 First Street  
Woodland, CA 95695  
[www.wmmpa.com](http://www.wmmpa.com)

WRI Wire Reinforcement Institute  
P.O. Box 450  
Findlay, OH 45839-0450  
[www.wirereinforcementinstitute.org](http://www.wirereinforcementinstitute.org)

WWPA Western Wood Products Association - Yeon Building  
522 S.W. Fifth Avenue, #500  
Portland, OR 97204-2122  
[www.wwpa.org](http://www.wwpa.org)

### 1.03 DEFINITIONS

- A. Regulations: Includes laws, ordinances, statutes and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the work.

### 1.04 SYSTEM DESCRIPTIONS

- A. Specification Format and Content
  1. Specifications are organized into Divisions and Sections based on the Construction Specifications Institute's 2004 Masterformat numbering system.
  2. The sections are placed in the Project Manual in numeric sequence; however, this sequence is not complete and the Table of Contents of the specifications must be consulted to determine the total listing of sections.
  3. The section title is not intended to limit the meaning or content of the section, nor is it to be fully descriptive of the requirements specified therein.
  4. The organization of the specifications shall not control the division of the work among subcontractors or establish the extent of work to be performed by any trade.
  5. Specifications use certain conventions regarding style of language and the intended meaning of certain terms, words and phrases when used in particular situations or circumstances. These conventions are:
    1. Language used in Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words that are implied, but not stated, shall be interpolated as the sense requires. Singular words shall be interpreted as plural and plural words interpreted as singular where applicable to maintain the context of the Contract Document indicated.
    2. Imperative and streamlined language is generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by the CONTRACTOR. Subjective language is used for clarity to describe responsibilities that must be fulfilled indirectly by the CONTRACTOR, or by others when so noted.
    3. The words "shall be" are implied wherever a colon (:) is used within a sentence or phrase.
- B. Codes and Standards
  1. Latest edition of pertaining ordinances, laws, rules, codes, regulations, standards and others of public agencies having jurisdiction of the work are intended wherever reference is made in either the singular or plural to Code or Building Code except as otherwise specified, including but not limited to latest edition of those in the following listing.
  2. Partial List of Applicable Codes
    - a. 2019 California Administrative Code, C.C.R., Title 24, Part 1
    - b. 2019 California Building Code, C.C.R., Title 24, Part 2, Volumes 1 and 2

### REFERENCE STANDARDS

- (Based on the 2018 International Building Code Volumes 1-2 and 2019 California Amendments)
- c. 2019 California Electrical Code,  
C.C.R., Title 24, Part 3  
(Based on the 2017 National Electrical Code)
- d. 2019 California Mechanical Code,  
C.C.R., Title 24, Part 4  
(Based on the 2018 IAPMO Uniform Mechanical Code and 2019 California Amendments)
- e. 2019 California Plumbing Code,  
C.C.R., Title 24, Part 5  
(Based on the 2018 IAPMO Uniform Plumbing Code and 2019 California Amendments)
- f. 2019 California Energy Code,  
C.C.R., Title 24, Part 6
- g. 2019 California Historical Building Code,  
C.C.R., Title 24, Part 8
- h. 2016 California Fire Code,  
C.C.R., Title 24, Part 9  
(Based on the 2018 International Fire Code and 2019 California Amendments)
- i. 2019 California Existing Building Code,  
C.C.R., Title 24, Part 10
- j. 2019 California Green Building Standards Code,  
C.C.R., Title 24, Part 11
- k. 2019 California Referenced Standards Code,  
C.C.R., Title 24, Part 12; Title 19, Public Safety, SFM Regulations
- l. ASME A17.1/CSA B44-16 – Safety Code for Elevators & Escalators
- 3. Partial List of Applicable Standards
  - a. NFPA 13 Automatic Sprinkler Systems, 2016 Ed.
  - b. NFPA 14 Standpipe Systems, 2016 Ed.
  - c. NFPA 17 Dry Chemical Extinguishing Systems, 2017 Ed.
  - d. NFPA 17A Wet Chemical Extinguishing Systems, 2017 Ed.
  - e. NFPA 20 Stationary Pumps, 2016 Ed.
  - f. NFPA 22 Water Tanks For Private Fire Protection, 2013 Ed.
  - g. NFPA 24 Private Fire Service Mains, 2016 Ed.
  - h. NFPA 72 National Fire Alarm and Signaling Code, 2016 Ed.
  - i. NFPA 80 Fire Doors and Other Opening Protectives, 2016 Ed.
  - j. NFPA 92 Standard for Smoke Control Systems, 2015 Edition
  - k. NFPA 253 Critical Radiant Flux of Floor Covering Systems, 2015 Ed.
  - l. NFPA 2001 Clean Agent Fire Extinguishing Systems, 2015 Ed.
  - m. ICC 300 ICC Standards on Bleachers, Folding and Telescoping Seating and Grandstands, 2012 Ed.
  - n. UL 300 Fire Testing of Fire Extinguishing Systems for Protection Of Restaurant Cooking Areas
  - o. UL 464 Audible Signal Appliances
  - p. UL 521 Heat Detectors for Fire Protective Signaling Systems
- 4. A copy of C.C.R. Title 24, 2019 Part 1-5 must be kept on site during construction.

REFERENCE STANDARDS

5. All addenda and construction change documents must be signed by the ARCHITECT.
- C. Industry Standards
1. Except where Contract Documents include more stringent requirements, applicable construction industry standards shall apply as if bound into the Contract Documents to the extent referenced. Such standards are made part of Contract Documents by reference.
  2. Conform to reference standard by date of issue current on date for receiving bids except when a specific date is indicated.
  3. Where compliance with two (2) or more standards is specified and where standards may establish different or conflicting requirements for quantities or quality levels, the more stringent, higher quality and greater quantity of work shall apply.
  4. The quantity or quality level shown or specified shall be the minimum provided or performed. Indicated numeric values are minimum or maximum, as appropriate, for the context of the requirements.
  5. Each entity engaged in construction of the work is required to be familiar with industry standards applicable to its construction activity.
  6. Copies of applicable standards are not bound with the Contract Documents. Where copies of standards are needed to perform a required activity, CONTRACTOR shall obtain copies directly from publication source.
  7. Trade association's names and titles of general standards are frequently abbreviated. Where such abbreviations are used in the Specifications or other Contract Documents, they shall mean the recognized trade association, standards-generating organization, authority having jurisdiction or other entity applicable to the content of the text provision. Refer to the "Encyclopedia of Associations", published by Gale Research Co., available in most libraries. A partial list is included at the end of this section.
  8. Refer to individual specification sections and related drawings for names and abbreviations of trade associations and standards applicable to specific portions of the work.
  9. The contractual relationship of the parties to the Contract shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

- 1.05 SUBMITTALS
- 1.06 QUALITY ASSURANCE
- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
- 1.12 SYSTEM STARTUP
- 1.13 OWNER'S INSTRUCTIONS
- 1.14 COMMISSIONING
- 1.15 MAINTENANCE

## **PART 2 PRODUCTS**

### **REFERENCE STANDARDS**

- 2.01 MANUFACTURERS
- 2.02 EXISTING PRODUCTS
- 2.03 MATERIALS
- 2.04 MANUFACTURED UNITS
- 2.05 EQUIPMENT
- 2.06 COMPONENTS
- 2.07 ACCESSORIES
- 2.08 MIXES
- 2.09 FABRICATION
- 2.10 FINISHES
- 2.11 SOURCE QUALITY CONTROL

**PART 3 EXECUTION**

- 3.01 INSTALLERS
- 3.02 EXAMINATION
- 3.03 PREPARATION
- 3.04 ERECTION
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- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 45 00  
QUALITY CONTROL**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Quality assurance and control of installation.
  - 2. Certifications
  - 3. Field samples.
  - 4. Mock-up.
  - 5. Manufacturers' field services and reports.
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

**1.06 QUALITY ASSURANCE**

- A. Qualifications
  - 1. Monitor quality control over suppliers, manufacturers, products, services, site conditions and workmanship to produce work of specified quality.
  - 2. Comply fully with manufacturers' instructions including each step in sequence.
  - 3. Should manufacturers' instructions conflict with Contract Documents, request clarification from ARCHITECT before proceeding.
  - 4. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.
  - 5. Perform work by persons qualified to produce workmanship of specified quality.
  - 6. Where experience minimums for workmen, applicators, companies or manufacturers are required in individual sections, written certification and documentation substantiating such minimums shall be submitted and approved by the ARCHITECT, when requested.
  - 7. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.
- B. Regulatory Requirements
  - 1. All work pertaining to and all materials supplied for executing and completing this Contract shall comply with provisions specified in

the Contract Documents and with all applicable laws, regulations and ordinances governing Work.

- C. Certifications
  - 1. Manufacturers' Field Services and Reports
    - a. When specified in individual specification sections, require material or Product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment and as applicable and to initiate instructions when necessary.
    - b. Manufacturer's Representatives shall report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
    - c. Submit report of observation to ARCHITECT for review.
- D. Field Samples
  - 1. Install field samples at the site as required by individual specifications sections for review by ARCHITECT.
  - 2. Accepted samples represent a quality level for the Work.
  - 3. Where field sample is specified in individual sections to be removed, clear area after field sample has been accepted by ARCHITECT and is no longer required for reference.
- E. Mock-ups
  - 1. Tests will be performed under provisions identified in this section.
  - 2. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals and finishes.
  - 3. Where mock-up is specified in individual sections to be removed, clear area after mock-up has been accepted by ARCHITECT and is no longer required for reference.
- F. Pre-installation Meetings
  - 1. When specified in individual specification sections, require material or Product suppliers or manufacturers to provide qualified staff personnel to attend meetings regarding installation of specified Work.

- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
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## **PART 2 PRODUCTS**

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- 2.03 MATERIALS
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- 2.05 EQUIPMENT



- 2.06 COMPONENTS
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- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 52 00  
CONSTRUCTION FACILITIES**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Furnishing and Installing:
    - a. Temporary Water
    - b. Temporary Sanitary Facilities
    - c. Fences and Barricades
    - d. Construction Equipment
    - e. Storage
    - f. Temporary Job Office
    - g. Temporary Electrical
    - h. Temporary Lighting
    - i. Temporary Heat
    - j. Temporary Ventilation
    - k. Barriers
    - l. Noise Control
    - m. Pollution Control
    - n. Exterior Enclosures
    - o. Access Roads
    - p. Progress Cleaning
    - q. Fire Protection
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

**1.06 QUALITY ASSURANCE**

**1.07 DELIVERY, STORAGE, AND HANDLING**

**1.08 PROJECT CONDITIONS**

- A. Regulatory Requirements
  - 1. Comply with governing regulations and utility company regulations and recommendations.
  - 2. Comply with pollution and environmental protection regulations for use of water and energy, for discharge of wastes and storm drainage from Project Site and for control of dust, air pollution and noise.
  - 3. Temporary construction shall conform to requirements of State, County and Local authorities and underwriters which pertain to operation, health, safety and fire hazard. CONTRACTOR shall furnish and install items necessary for conformance with such

requirements, whether or not called for under the separate divisions of these specifications.

- B. Temporary Water
  - 1. The OWNER shall provide construction water at the closest existing fire hydrant as approved by the local jurisdiction. OWNER supplied point of connection shall include applicable temporary meter and backflow devices. CONTRACTORS requiring construction water shall provide all labor and materials (including cut and patch) to distribute.
- C. Temporary Sanitary Facilities
  - 1. CONTRACTOR will provide and maintain required temporary chemical type toilet facilities and enclosures.
  - 2. Existing facilities shall not be used.
- D. Fences and Barricades
  - 1. After completion of site grading and before start of Work on the project site, CONTRACTOR may install a six (6) foot high temporary chain link fence with locked entrance gates to substantially enclose the entire project site. Any activities schedule to commence prior to the installation of fencing will be temporarily fenced by CONTRACTOR requiring same.
  - 2. The CONTRACTOR requiring same shall construct and maintain planking, barricades, lights and warning signs as indicated as required by Local authorities and State safety ordinances and as necessary for the protection of the public.
- E. Construction Equipment
  - 1. CONTRACTOR shall erect, equip and maintain construction equipment in strict accordance with applicable statues, laws, ordinances and regulations of authority having jurisdiction.
  - 2. CONTRACTOR shall provide, maintain and move upon completion of the Work all temporary rigging, scaffolding, hoisting equipment, rubbish chutes, ramps, stairs, runways, platforms, ladders, railings and other temporary construction as required for all work hereunder.
- F. Storage
  - 1. Operations of the CONTRACTOR, including storage of materials, shall be confined to areas approved by OWNER. CONTRACTOR shall be liable for damage caused by him/her during such use of property of the OWNER or other parties. CONTRACTOR shall save the OWNER along with their respective officers, employees and agents, and the ARCHITECT and his employees, free and harmless from liability of any nature or kind arising from any use, trespass or damage occasioned by his operations on premises of third persons. Storage facilities shall provide protection of products from excessive cold, heat, moisture, humidity or physical abuse as specified in the respective sections for the products stored. Each CONTRACTOR requiring same shall provide their own temporary storage and security for same.
  - 2. Staging areas will be under the supervision of the CONTRACTOR. Materials shall be placed and relocated as necessary for the progress of the project.
- G. Temporary Job Office
  - 1. Should any CONTRACTOR require office space, the CONTRACTOR requiring office space shall provide.

- H. Temporary Electrical
  - 1. If requested by CONTRACTOR, OWNER shall provide temporary power as follows:
    - a. One (1) 200 amp single phase service.
    - b. A 50 amp sub-panel mounted on a post will not be more than 50 feet away from each building pad.
    - c. Each sub-panel shall be equipped with two (2) 110 volt receptacles, one (1) 220 volt receptacle and one (1) 50 amp twist-lock pigtail.
  - 2. Any temporary power requirements beyond these provided will be the responsibility of the CONTRACTOR requiring same.
  - 3. All welding will be done with self-contained gas powered units.
- I. Temporary Lighting
  - 1. Each CONTRACTOR shall be responsible to provide and maintain all temporary lighting as required to safely access and perform their work.
- J. Temporary Heat
  - 1. Temporary heat will be supplied and maintained by the CONTRACTOR requiring same.
  - 2. Do not use permanent equipment for temporary heating purposes unless specifically noted otherwise in the contract documents.
- K. Temporary Ventilation
  - 1. All CONTRACTORS shall ventilate enclosed areas to assist cure of materials, dissipate humidity and to prevent accumulation of dust, fumes, vapors or gases as the above may be generated by them.
- L. Barriers
  - 1. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
  - 2. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
  - 3. Provided protection for plant life and trees designated to remain and for soft and hardscape areas adjacent to work, replace damaged materials as directed by the ARCHITECT.
  - 4. Protect non-owned vehicular traffic, stored materials, site and structures from damage.
  - 5. Construction workers shall not interact or communicate with students or staff except in emergency or safety related situations. (Post a sign to this effect at entry.)
- M. Noise Control
  - 1. CONTRACTORS shall ensure that all construction equipment utilized include noise-reduction features (e.g., mufflers and engine shrouds) that are no less effective than those originally installed by the manufacturer of such equipment.
  - 2. CONTRACTORS shall review and be knowledgeable of any CEQA documentation for this project restricting or limiting noise, and implement any and all scheduling or mitigation methods necessary to conform with the CEQA documents. This includes any Mitigated Negative or Negative Declaration instrument the OWNER has produced.

3. CONTRACTORS shall review and be knowledgeable of any federal, state or local agency requirements for noise restrictions and adhere to the policies outlined by the applicable laws and codes.
- N. Pollution Control
1. 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.
- O. Exterior Enclosures
1. Provide temporary weather-tight closure of exterior openings to accommodate acceptable working conditions and protection for materials, to allow for temporary heating and maintenance or required ambient temperatures identified in individual specification Sections and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.
- P Access Roads
1. Provide and maintain access to fire hydrants, free of obstructions.
  2. Existing on-site roads may be used for construction traffic.
  3. CONTRACTORS may not park or drive on concrete walks or in the buildings at any time.
- Q. Progress Cleaning
1. Maintain areas free of waste materials, debris and rubbish. Maintain site in a clean and orderly condition.
  2. Each applicable CONTRACTOR shall remove debris and rubbish from pipe chases, plenums, attics, crawl spaces and other closed or remote spaces prior to the space being enclosed.
  3. Each applicable CONTRACTOR shall broom and vacuum clean interior areas prior to start of surface finishing and continue cleaning to eliminate dust.
  4. Remove waste materials, debris and rubbish from site periodically and dispose off-site.
- R. Fire Protection
1. Fire protection during construction shall be provided in accordance with CFC, Chapter 33.

- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
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## **PART 2 PRODUCTS**

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- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 57 00  
TEMPORARY CONTROLS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Water Control
  - 2. Dust Control
  - 3. Erosion and Sediment Control
  - 4. Noise Control
  - 5. Pollution Control
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

**1.06 QUALITY ASSURANCE**

**1.07 DELIVERY, STORAGE, AND HANDLING**

**1.08 PROJECT CONDITIONS**

- A. Project Environmental Requirements
  - 1. Water Control
    - a. Do not permit surface or subsurface water or other liquids to accumulate in or about the premises and vicinity thereof. Should such conditions be encountered or develop, control the water or other liquid and suitably dispose of it by means of temporary pumps, piping, drainage lines, troughs, ditches, dams or other methods as approved by the ARCHITECT and/or the authority having jurisdiction.
  - 2. Dust Control
    - a. Conduct earthwork operations in a manner to prevent windblown dust and dirt from interfering with the progress of the Work, the OWNER'S activities and the existing occupied structures in the areas immediately adjacent as well as adjacent properties.
    - b. Periodically water construction areas as required to minimize accumulation of dust and dirt.
    - c. Water spray or cover with tarpaulins truck loads of soil to additionally minimize generation of dust and dirt from construction operations.
    - d. Prevent dust and dirt from accumulating on walks, roadways, parking areas and from washing into sewer and storm drain lines.
  - 3. Erosion and Sediment Control

- a. Plan and execute construction by methods to control surface drainage from cuts and fills from borrow and waste disposal areas. Prevent erosion and sedimentation.
- b. Minimize amount of bare soil exposed at one time.
- c. Provide temporary measures such as berms, dikes and drains to prevent water flow over adjacent properties or City rights-of-way.
- e. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.
- f. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.
- 4. Noise Control
  - a. Avoid excessive noise where adjacent operations may be detrimentally affected.
- 5. Pollution Control
  - a. 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.
  - b. Burning of refuse, debris or other materials will not be permitted on the Site.
  - c. Comply with regulatory requirements and anti-pollution ordinances during the course of construction and disposal operations.
- 6. Removal
  - a. Remove all temporary control measures in accordance with regulatory requirements at the completion of construction.
- B. Existing Conditions

- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
- 1.12 SYSTEM STARTUP
- 1.13 OWNER'S INSTRUCTIONS
- 1.14 COMMISSIONING
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- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 60 00  
PRODUCT REQUIREMENTS**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes
  - 1. Products
  - 2. Transportation and Handling
  - 3. Storage and Protection
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

1.02 REFERENCES

1.03 DEFINITIONS

1.04 SYSTEM DESCRIPTIONS

- A. Products
  - 1. Products: Means new material, machinery, components, equipment, fixtures and systems forming the Work. Does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components required for reuse.
  - 2. Do not use materials and equipment removed from existing premises, except as specifically permitted by the Contract Documents.
  - 3. Provide interchangeable components of the same manufacturer for similar components.
  - 4. The ARCHITECT may reject as non-complying such material and products that do not bear identification satisfactory to the ARCHITECT as to manufacturer, grade, quality and other pertinent.
  - 5. In event of damage, promptly make replacements and repairs to the approval of the ARCHITECT and at no additional cost to the OWNER.
  - 6. Additional time required to secure replacements and to make repairs will not be considered by the ARCHITECT to justify an extension in the Contract Time of Completion.

1.05 SUBMITTALS

1.06 QUALITY ASSURANCE

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Packing, Shipping, Handling, and Unloading
  - 1. Transport and handle products in accordance with manufacturer's instructions.
  - 2. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement or damage.

- B. Acceptance at Site
  - 1. Promptly inspect shipments to assure that products comply with requirements, quantities are correct and products are undamaged.
- C. Storage and Protection
  - 1. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight, climate controlled enclosures.
  - 2. For exterior storage of fabricated products, place on sloped supports, above ground and protect as necessary to prevent deterioration or damage to the product.
  - 3. When approved by the OWNER, provide off-site storage and protection in a bonded warehouse approved by OWNER when site does not permit on-site storage or protection at no cost to the OWNER.
  - 4. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation.
  - 5. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
  - 6. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement or damage.
  - 7. Arrange storage of products to permit access for inspection. Periodically inspect to assure products are undamaged and are maintained under specified conditions.
- D. Waste Management and Disposal

- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
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- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 74 00  
CLEANING AND WASTE MANAGEMENT**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes
  - 1. Provide throughout the construction period, maintain the buildings and site in a standard of cleanliness as described in the section.
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

1.02 REFERENCES

1.03 DEFINITIONS

1.04 SYSTEM DESCRIPTIONS

- A. Conduct daily inspection, and more often if necessary, to verify that requirements for cleanliness are being met.
- B. In addition to the standards described in this section, comply with pertinent requirements of governmental agencies having jurisdiction.

1.05 SUBMITTALS

1.06 QUALITY ASSURANCE

1.07 DELIVERY, STORAGE, AND HANDLING

1.08 PROJECT CONDITIONS

1.09 SEQUENCING

1.10 SCHEDULING

1.11 WARRANTY

1.12 SYSTEM STARTUP

1.13 OWNER'S INSTRUCTIONS

1.14 COMMISSIONING

1.15 MAINTENANCE

**PART 2 PRODUCTS**

2.01 MANUFACTURERS

2.02 EXISTING PRODUCTS

2.03 MATERIALS

2.04 MANUFACTURED UNITS

2.05 EQUIPMENT

2.06 COMPONENTS

2.07 ACCESSORIES

2.08 MIXES

2.09 FABRICATION

2.10 FINISHES

2.11 SOURCE QUALITY CONTROL

## PART 3 EXECUTION

- 3.01 INSTALLERS
- 3.02 EXAMINATION
- 3.03 PREPARATION
- 3.04 ERECTION
- 3.05 INSTALLATION
- 3.06 APPLICATION
- 3.07 CONSTRUCTION
- 3.08 REPAIR/RESTORATION
- 3.09 RE-INSTALLATION
- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
  - A. Cleaning of Materials and Equipment
    - 1. Provide required personnel, equipment, and materials needed to maintain the specified standard of cleanliness.
  - B. Compatibility
    - 1. Use only the cleaning materials and equipment which are compatible with the surface being cleaned, as recommended by the manufacturer of the material.
  - C. Progress Cleaning
    - 1. Retain stored items in an orderly arrangement allowing maximum access, not impeding traffic or drainage, and providing required protection of materials.
    - 2. So not allow accumulation of scrap, debris, waste material, and other items not required for construction of this work.
    - 3. At least twice each month, and more often if necessary, completely remove all scrap, debris, and waste material from the job site.
    - 4. Provide adequate storage for all items awaiting removal from the job site, observing requirements for fire protection and protection of the ecology.
    - 5. Site
      - a. Clean daily, and more often if necessary, inspect the site and pick up all scrap, debris, and waste material. Remove such items to the place designated for their storage.
      - b. Weekly, and more often if necessary, inspect all arrangements of materials stored on the site. Restack, tidy, or otherwise service arrangements as needed.
      - c. Maintain the site in a neat and orderly condition at all times.
    - 6. Structures
      - a. Weekly, and more often if necessary, inspect the structures and pick up all scrap, debris, and waste material. Remove such items to the place designated for their storage.
      - b. Weekly, and more often if necessary, sweep interior spaces clean. "Clean" for the purpose of this subparagraph, shall be interpreted as meaning free from dust and other material capable of being removed by use of reasonable effort and a hand-held broom.
      - c. As required preparatory to installation of succeeding materials, clean the structures or pertinent portions hereof to the degree of cleanliness recommended by the

manufacturer of the succeeding material, using equipment and materials required to achieve the necessary cleanliness.

- d. Following the installation of finish floor materials, clean the finish floor daily (and more often if necessary) at all times while work is being performed in the space in which finish materials are installed. "Clean" for the purpose of this subparagraph, shall be interpreted as meaning free from foreign material which, in the opinion of the ARCHITECT, may be injurious to the finish floor material.

D. Final Cleaning

1. "Clean" for the purpose of this article, and except as may be specifically provided otherwise, shall be interpreted as meaning the level of cleanliness generally provided by skilled cleaners using commercial quality building maintenance equipment and materials.
2. Prior to completion of the work, remove from the job site all tools, surplus materials, equipment, scrap, debris, and waste.
3. Site
  - a. Broom clean paved areas on the site and public paved areas adjacent to the site.
  - b. Completely remove resultant debris.
4. Structures
  - a. Exterior
    1. Visually inspect exterior surfaces and remove all traces of soil, waste materials, smudges, and other foreign matter.
    2. Remove all traces of splashed materials from adjacent surfaces.
    3. If necessary to achieve a uniform degree of cleanliness, hose down the exterior of the structure.
    4. In the event of stubborn stains not removable with water, the architect may require light sandblasting or other cleaning at no additional cost to the OWNER.
  - b. Interior
    1. Visually inspect interior surfaces and remove all traces of soil, waste materials, smudges, and other foreign matter.
    2. Remove all traces of splashed material from adjacent surfaces.
    3. Remove paint droppings, spots, stains, and dirt from finished surfaces.
  - c. Glass
    1. Clean inside and outside.
  - d. Polished surfaces
    1. To surfaces requiring routine application of buffed polish, apply the polish recommended by the manufacturer of the material being polished.
  - e. Schedule final cleaning as approved by the architect to enable the OWNER to accept a completely clean work.

E. Cleaning During Owner's Occupancy

1. Should the OWNER occupy the work or any portion hereof prior to its completion by the contractor and acceptance by the OWNER, responsibilities for interim and final cleaning shall be as determined

by the ARCHITECT in accordance with the General Conditions of the contract.

- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION



**SECTION 01 77 00  
CLOSEOUT PROCEDURES**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Closeout procedures
  - 2. Adjusting
  - 3. Project record documents
  - 4. Operation and maintenance data
  - 5. Warranties and Guarantees
  - 6. Spare parts and maintenance materials
  - 7. Instructions to OWNER'S personnel
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
  - 1. 01 20 00 Price and Payment Procedures
  - 2. 01 32 16 Construction Progress Schedule
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

- A. Closeout Procedures
  - 1. Partial Occupancy and Substantial Completion:
    - a. Conform to General Conditions for Closeout Procedures.
    - b. Prepare a list of items to be completed or corrected, aka 'Punch List'. List may be developed by areas, when approved by the ARCHITECT.
    - c. Within a reasonable time after receipt of the list, the ARCHITECT will inspect to determine status of completion.
    - d. Should the ARCHITECT determine that Work is not substantially complete:
      - 1. The ARCHITECT will promptly notify the OWNER and CONTRACTOR in writing, giving the reasons for his determination.
      - 2. CONTRACTOR shall remedy the deficiencies and notify the ARCHITECT when Work is ready for re-inspection.
      - 3. The ARCHITECT will re-inspect the Work.
    - e. When the ARCHITECT concurs that work is substantially complete:
      - 1. The ARCHITECT will prepare a "Certificate of Substantial Completion" on AIA Form G704, accompanied by the CONTRACTOR'S list of items to be completed or corrected as verified by the ARCHITECT.

2. The ARCHITECT will submit the Certificate to the OWNER and to the CONTRACTOR for their written acceptance of the responsibilities assigned to them in the Certificate.
2. Final Completion:
    - a. Prepare and submit a notice that Work is ready for final inspection and acceptance.
    - b. Verify the Work is complete.
    - c. Certify that:
      1. Work has been inspected by all governing agencies and is in compliance with Contract Documents.
      2. Work has been inspected for compliance with the Contract Documents.
      3. Work has been completed in accordance with the Contract Documents.
      4. Equipment and systems have been tested as required and are operational.
      5. Work is completed and ready for final inspection.
    - d. The ARCHITECT will make an inspection to verify status of completion.
    - e. Should the ARCHITECT determine the Work is incomplete or defective:
      1. The ARCHITECT will promptly notify the OWNER and CONTRACTOR in writing, listing incomplete or defective work.
      2. CONTRACTOR shall remedy the deficiencies promptly and notify the ARCHITECT when ready for re-inspection.
    - f. When the ARCHITECT determines the Work is acceptable under the Contract Documents, he will request the CONTRACTOR to make closeout submittals.
  3. Closeout submittals include, but are not necessarily limited to:
    - a. Project Record Documents.
    - b. Operation and maintenance data for items so listed in pertinent Sections of these Specifications and for other items when so approved by the ARCHITECT.
    - c. Warranties and Guarantees.
    - d. Keys and keying schedule.
    - e. Spare parts, materials, extra stock to be turned over to the OWNER.
    - f. Evidence of payment and release of liens.
    - g. List of subcontractors, service organizations and principal vendors, including names, addresses and telephone numbers, where they may be contacted for emergency service at all times, including nights, weekends and holidays.
  4. Final Payment:
    - a. Submit a Final Payment Request, showing all adjustments to the Contract Sum.
    - b. Retention will be released no sooner than thirty-five (35) days and not later than sixty (60) days after Notice of Completion has been recorded with the County Recorder's Office.

CLOSEOUT PROCEDURES

## 1.05 SUBMITTALS

- A. Product Data
- B. Shop Drawings
- C. Samples
- D. Quality Assurance/Control Submittals
- E. Closeout Submittals
  - 1. Project Record Documents
    - a. OWNER will provide one (1) set of drawings and one (1) copy of the Project Manual for use during construction to record changes made during construction manually. CONTRACTORS installing underground utilities shall provide electronic as-built documentation.
    - b. Record in concise and neat manner and on a weekly basis all actual revisions to the work:
      - 1. Changes made on the Drawings, including Clarification Drawings.
      - 2. Changes made to the Specifications.
      - 3. Changes made by Addenda.
      - 4. Changes made by Change Directive.
      - 5. Change Orders or other authorized Modifications to the Contract.
      - 6. Revisions made to shop drawings, product data and samples.
    - c. Store Record Documents separate from documents used for construction. Replace soiled or illegible documents.
    - d. Record information concurrent with construction progress.
    - e. Specifications: Legibly mark and record at each Product section description of actual Products installed, including the following:
      - 1. Manufacturer's name, trade name, product model and number and supplier.
      - 2. Authorized product substitutions or alternates utilized.
      - 3. Changes made by Addenda and Modifications.
    - f. Record Documents and Shop Drawings: Legibly mark each item to record actual construction including:
      - 1. Measured depths of foundations in relation to finish first floor datum.
      - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements. Identify drains and sewers by invert elevation.
      - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work. Identify ducts, dampers, valves, access doors and control equipment wiring.
      - 4. Field changes of dimension and detail.
      - 5. Details not on original Drawings.
    - g. The OWNER will require the preparation of a final reproducible "RECORD SET" of drawings that incorporate all changes made during the construction process to include

### CLOSEOUT PROCEDURES

incorporation of all change orders, addenda, field orders and "As Installed" conditions noted on the CONTRACTOR prepared record documents. The preparation and printing cost of the "RECORD SET" is part of the contract.

2. Operation And Maintenance Data
  - a. Submit three (3) sets prior to final inspection, bound in 8½ x 11 inch text pages, in binders with durable covers, tabbed by specification section and/or other organizing heading.
  - b. Deliver to OWNER, itemized and inventoried on transmittal.
3. Warranties and Guarantees
  - a. Submit three (3) wet-signed originals separate from Operation and Maintenance data.
  - b. Manufacturer's warranties and guarantees notwithstanding, warrant entire Work against defects in materials and workmanship for twelve (12) months from date of Substantial Completion. Warranties and guarantees between CONTRACTOR and manufacturers and CONTRACTOR and suppliers shall not affect warranties or guarantees between CONTRACTOR and OWNER.
  - c. Execute and assemble documents from subcontractors, suppliers and manufacturers.
  - d. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within ten (10) days after acceptance, listing date of acceptance as start of warranty period.
  - e. Deliver to OWNER, itemized and inventoried on transmittal.
4. Underground Wet Utility Video
  - a. Upon completion of the storm drain system, the CONTRACTOR shall fully flush the storm drain system and confirm proper functionality. Additionally, the CONTRACTOR shall provide all services necessary to electronically view and record (video) the improvements to the storm drain system. The CONTRACTOR shall turn-over two (2) copies of the documented review (DVD or media of the OWNER'S choice) of the storm drain system at the completion of the project.
  - b. Upon completion of the sewer system, the CONTRACTOR shall fully flush the sewer system and confirm proper functionality. Additionally, the CONTRACTOR shall provide all services necessary to electronically view and record (video) the improvements to the sewer system at all interior clean outs and main lines and all exterior building P.O.C./cleanout out to the public system P.O.C. The CONTRACTOR shall turn-over two (2) copies of the documented review (DVD or media of the OWNER'S choice) of the sewer system at the completion of the project.
  - c. Deliver to OWNER, itemized and inventoried on transmittal.
5. Instructions to OWNER'S Personnel
  - a. Instruct the OWNER'S personnel in proper operation and maintenance of all systems, equipment and similar items, which were provided as part of the work. Provide maintenance and inspection schedules that conform to manufacturer's recommendations.

CLOSEOUT PROCEDURES

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- b. CONTRACTOR shall provide a schedule to the OWNER for approval for each of the instruction periods required.
  - 1. Organize the instruction sessions into group sizes and schedule the elapsed time for instruction in a manner to provide complete coverage of the subject matter. Video each session and provide OWNER with two (2) copies on DVD.
- c. Instruction sessions will be held in a OWNER designated area on the project site and at OWNER'S convenience. Amount of time required for each session shall be as specified in individual sections.
- d. Instructors shall be qualified by the product manufacturer in the subject matter presented at each session.
  - 1. Submit names of instructors and qualifications to the ARCHITECT and OWNER for approval thirty (30) days prior to each scheduled session.
  - 2. Substitution of instructors will not be permitted without prior approval of ARCHITECT or OWNER.

1.06 QUALITY ASSURANCE

1.07 DELIVERY, STORAGE, AND HANDLING

1.08 PROJECT CONDITIONS

1.09 SEQUENCING

1.10 SCHEDULING

1.11 WARRANTY

1.12 SYSTEM STARTUP

1.13 OWNER'S INSTRUCTIONS

1.14 COMMISSIONING

1.15 MAINTENANCE

A. Extra Materials

- 1. Provide products, spare parts, maintenance and extra materials in quantities specified in individual specification Sections.

B. Maintenance Service

## **PART 2 PRODUCTS**

2.01 MANUFACTURERS

2.02 EXISTING PRODUCTS

2.03 MATERIALS

2.04 MANUFACTURED UNITS

2.05 EQUIPMENT

2.06 COMPONENTS

2.07 ACCESSORIES

2.08 MIXES

2.09 FABRICATION

2.10 FINISHES

2.11 SOURCE QUALITY CONTROL

## **PART 3 EXECUTION**

3.01 INSTALLERS

3.02 EXAMINATION

3.03 PREPARATION

CLOSEOUT PROCEDURES

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- 3.04 ERECTION
- 3.05 INSTALLATION
- 3.06 APPLICATION
- 3.07 CONSTRUCTION
- 3.08 REPAIR/RESTORATION
- 3.09 RE-INSTALLATION
- 3.10 FIELD QUALITY CONTROL
- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES

END OF SECTION

**SECTION 01 78 30  
WARRANTIES AND BONDS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes
  - 1. Preparation and submittal
  - 2. Time and schedule of submittals
  - 3. Guarantee Form
  - 4. Contractor's Certificate Regarding Asbestos Material Form
- B. Products Supplied But Not Installed Under This Section
- C. Products Installed But Not Supplied Under This Section
- D. Related Sections
- E. Allowances
- F. Unit Prices
- G. Measurement Procedures
- H. Payment Procedures
- I. Alternates

**1.02 REFERENCES**

**1.03 DEFINITIONS**

**1.04 SYSTEM DESCRIPTIONS**

**1.05 SUBMITTALS**

- A. Form of Submittals
  - 1. Bind in commercial quality, 8½ x 11 inch, three-ring side binders with hardback, cleanable, plastic covers.
  - 2. Label cover of each binder with typed or printed title WARRANTIES AND BONDS, with title of Project; name, address and telephone number of CONTRACTOR and equipment supplier; and name of responsible principal.
  - 3. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified and the name of the product or work item.
  - 4. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List subcontractor, supplier and manufacturer, with name, address and telephone number of responsible principal.
- B. Preparation of Submittals
  - 1. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers and manufacturers, within ten (10) days after completion of the applicable item or work. Except for items put into use with OWNER'S permission, leave date of beginning of time of warranty until the Date of Substantial Completion is determined.
  - 2. Verify that documents are in proper form, contain full information and are notarized.
  - 3. Co-execute submittals when required.
  - 4. Retain warranties and bonds until time specified for submittal.
- C. Time of Submittals

1. For equipment or component parts of equipment put into service during construction with OWNER'S permission, submit documents within ten (10) days after acceptance.
2. Make other submittals within ten (10) days after Date of Substantial Completion, prior to final Application for Payment.
3. For items of Work when acceptance is delayed beyond Date of Substantial Completion, submit within ten (10) days after acceptance, listing the date of acceptance as the beginning of the warranty period.

- 1.06 QUALITY ASSURANCE
- 1.07 DELIVERY, STORAGE, AND HANDLING
- 1.08 PROJECT CONDITIONS
- 1.09 SEQUENCING
- 1.10 SCHEDULING
- 1.11 WARRANTY
- 1.12 SYSTEM STARTUP
- 1.13 OWNER'S INSTRUCTIONS
- 1.14 COMMISSIONING
- 1.15 MAINTENANCE

#### **PART 2 PRODUCTS**

- 2.01 MANUFACTURERS
- 2.02 EXISTING PRODUCTS
- 2.03 MATERIALS
- 2.04 MANUFACTURED UNITS
- 2.05 EQUIPMENT
- 2.06 COMPONENTS
- 2.07 ACCESSORIES
- 2.08 MIXES
- 2.09 FABRICATION
- 2.10 FINISHES
- 2.11 SOURCE QUALITY CONTROL

#### **PART 3 EXECUTION**

- 3.01 INSTALLERS
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- 3.11 ADJUSTING
- 3.12 CLEANING
- 3.13 DEMONSTRATION
- 3.14 PROTECTION
- 3.15 SCHEDULES





**GUARANTEE**

We hereby guarantee that the

\_\_\_\_\_, (Item/Equipment)

which we have installed for

\_\_\_\_\_ (Owner)

at

\_\_\_\_\_, (Project name)

has been performed in accordance with the requirements of the Contract Documents and that the work as installed will fulfill the requirements of the Contract Documents.

The undersigned agrees to repair or replace any or all of such work that may prove to be defective in workmanship or material together with any other adjacent work which may be displaced in connection with such replacement within a minimum period of ONE (1) YEAR from the date of acceptance of the above-mentioned project by

\_\_\_\_\_, (Owner) ordinary wear and tear and unusual abuse or neglect excepted.

In the event of the undersigned's failure to comply with the above mentioned conditions within a reasonable period of time, as determined by the OWNER, but not later than ten (10) working days after being notified in writing by the OWNER, the undersigned authorizes the OWNER to proceed to have said defects repaired and made good at the expense of the undersigned, which will pay the costs and charges therefore upon demand.

\_\_\_\_\_ (Contractor)

\_\_\_\_\_ (Signed)

\_\_\_\_\_ (Printed Name)

Representatives to be contacted for service subject to terms of contract.

\_\_\_\_\_ (Name)

\_\_\_\_\_ (Address)

\_\_\_\_\_ (Email)

\_\_\_\_\_ (Phone Number)

**CONTRACTOR'S CERTIFICATE  
REGARDING ASBESTOS MATERIAL**

This form is to be submitted at the time final billing is provided.

"I certify that all the materials and supplies installed under this contract are free of asbestos-containing materials."

\_\_\_\_\_ (Name of Contract)

\_\_\_\_\_ (Date)

\_\_\_\_\_ (Official Name of CONTRACTOR)

\_\_\_\_\_ (By)

\_\_\_\_\_ (Title)

\_\_\_\_\_ (Signature)

END OF SECTION