

PROJECT MANUAL

**Electrical Replacement Project @ Topa
Topa Elementary School
PROJECT NO. 2021-1501**

Bid Opening: May 27, 2021, 11:00 A.M.

for

OJAI UNIFIED SCHOOL DISTRICT

May 7, 2021

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DOCUMENT 00020

NOTICE TO CONTRACTORS CALLING FOR BIDS

NOTICE IS HEREBY GIVEN that **Ojai Unified School District** of Ventura County, California, acting by and through its Governing Board, hereinafter referred to as the DISTRICT will receive up to, but not later than 11:00 o'clock a.m. of the 27th day of May, 2021, sealed bids for the award of a contract for:

**Electrical Replacement Project @ Topa
Topa Elementary School
Project Number: 2021-1501**

Bids shall be received in the office of the Business Department, OJAI UNIFIED SCHOOL DISTRICT located at 414 E Ojai Ave, Ojai, CA 93023 and shall be opened and publicly read aloud at the above-stated time and place.

A **mandatory pre-bid Conference** will be held on **May 18, 2021 at 10:00am** for the purpose of acquainting all prospective bidders with the bid documents and the work sites. The pre-bid conference will be held at:

Topa Topa Elementary School: 916 Mountain View Ave., Ojai 93023

Any Contractor bidding on the Project who fails to attend the entire mandatory job walk and conference will be deemed a non-responsive bidder and will have its bid returned unopened. Each bidder submitting a bid shall evidence attending the mandatory job walk by providing the following information on the District's sign-in sheet that will be made available at the job walk: name of the person attending, the company's name, and the CSLB license number of the bidder. The person attending the mandatory job walk shall be an employee, officer or other legally authorized representative of the bidder and this person shall provide a pre-printed business card identifying the bidder and the name of the person attending the job walk. Failure to meet these requirements will render a bidder's bid non-responsive and the bid will be returned unopened.

Each bid must conform and be responsive to the contract documents, copies of which are now on file and may be obtained after May 7, 2021 on the Ojai Unified School District Website (<https://vrapp.vendorregistry.com/Bids/View/BidsList?BuyerId=6b2c6c2c-f63b-49dc-b8cc-62c3bd9c9c73>).

Each bid shall be accompanied by the security referred to in the contract documents, the non-

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collusion affidavit, the list of proposed subcontractors, and all additional documentation required by the Instructions to Bidders.

In contracts involving an expenditure in excess of \$25,000.00, the successful bidder shall file a payment bond issued by an admitted Surety approved to conduct business in the State of California approved by the District in the form set forth in the contract documents.

The District reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding.

The Director of Industrial Relations has determined the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of worker needed to execute the contract which will be awarded to the successful bidder. The prevailing rate of per diem wages as determined by the State Director of Industrial Relations are AVAILABLE ON THE INTERNET at the World Wide Website of the State Department of Industrial Relations at www.dir.ca.gov under Statistics and Research.

It shall be mandatory upon the Contractor to whom the contract is awarded, and upon any subcontractor under him, to pay not less than the said specified rates to all workers employed by them in the execution of the contract.

Minority, women, and disabled veteran contractors are encouraged to submit bids. This bid **is not** subject to Disabled Veteran Business Enterprise requirements.

This contract **is** subject to a labor compliance program, as described in subdivision (b) of Section 1771.5 of the Labor Code.

Each bidder shall be a licensed contractor pursuant to the Business and Professions Code and shall be licensed in one of the following classifications: California Contractors B License (with C-10 Electrical License for subcontractor) or C-10 Electrical License. No bidder may withdraw a bid for a period of sixty (60) days after the date set for the opening of bids.

Dated this [May 7, 2021](#)

Adam Dutter
Bond Manager
OJAI UNIFIED SCHOOL DISTRICT
of Ventura County, California

END OF DOCUMENT

NOTICE TO CONTRACTORS

DOCUMENT 00100
INFORMATION FOR BIDDERS

1. **Preparation of Bid Form**

The District invites bids on the **attached** form to be submitted at such time and place as is stated in the Notice to Contractors Calling for Bids, not later than 11:00 o'clock am. of the 27th day of May, 2021. Bids shall be received in the Business Office located at Ojai Unified School District, 414 E Ojai Ave, Ojai, CA 93023. All blanks in the bid form must be appropriately filled in, and all prices must be stated in both words and figures. If a different price is stated in words than is stated in figures, the price stated in words shall be the price bid. All bids must be submitted in sealed envelopes bearing on the outside the name of the bidder, their address, and the name of the project for which the bid is submitted. It is the sole responsibility of the bidder to see that his bid is received in proper time. All bids received after the scheduled closing time for receipt of bids will be returned to the bidder unopened.

2. **Bid Security**

Each bid shall be accompanied by a certified or cashier's check payable to District, or a satisfactory bid bond in favor of District executed by the bidder as principal and an admitted surety approved to conduct business in the State of California as surety, in an amount specified in the Special Conditions hereof. The check or bid bond shall be given as a guarantee that the bidder shall execute the contract if it be awarded to him in conformity with the contract documents and shall provide the surety bond or bonds as specified therein within five (5) days after notification of the award of the contract to the bidder.

3. **Faxed and Electronic Mail Bids**

All bids must be under sealed cover. District will not accept any bids or bid modifications submitted by facsimile or electronic mail transmission.

4. **Signature**

The bid must be signed in the name of the bidder and must bear the signature in longhand of the person or persons duly authorized to sign the bid.

5. **Modifications**

Changes in or additions to the bid form, recapitulations of the work bid upon, alternative proposals, or any other modification of the bid form which is not specifically called for in the contract documents may result in the District's rejection of the bid as not being responsive to the invitation to bid. No oral or telephonic modification of any bid submitted will be considered and a telegraphic modification may be considered only if

INFORMATION FOR BIDDERS

the postmark evidences that a confirmation of the telegram duly signed by the bidder was placed in the mail prior to the opening of bids.

6. Erasures/Mutilation of Bid Documents

The bid submitted must not contain any erasures, interlineations, or other corrections unless each such correction is suitably authenticated by affixing in the margin immediately opposite the correction the surname or surnames of the person or persons signing the bid.

Contractors should not deface or mutilate the bid documents to the extent that they may not be usable for construction purposes. Bid documents obtained under deposit shall be returned within 10 days after bid opening.

7. Examination of Site and Contract Documents

Each bidder shall be required to visit the site of the proposed work and fully acquaint himself with the conditions relating to the construction and labor so that he may fully understand the facilities, difficulties, and restrictions attending the execution of the work under the contract. Bidders shall thoroughly examine and be familiar with the drawings and specifications. The failure or omission of any bidder to receive or examine any contract documents, form, instrument, addendum, or other document or to visit the site and acquaint himself with conditions there existing shall in no way relieve any bidder from obligations with respect to his bid or to the contract

7.1 Each bidder, by making his bid represents that he has read and understands the Contract and Bid Documents and any and all related reports and information. After executing the Agreement, no consideration will be given to any claim of misunderstanding of the documents.

7.2 Each bidder, by making his bid, represents that he has visited the site, inspected the area of the work, and familiarized himself with the local conditions under which the work is to be performed. Such inspection shall specifically consider requirements for accessing the site and determining the work can be completed as required by, and as shown in, the Contract Documents.

7.3 With District's approval, including provision of insurance as required, and after scheduling access with the District, each bidder may conduct additional site investigations at the bidder's sole cost.

8. Withdrawal of Bids

INFORMATION FOR BIDDERS

Any bidder may withdraw his bid either personally, by written request, or by telegraphic request confirmed in the manner specified above at any time prior to the scheduled closing time for receipt of bids.

9. Agreements and Bonds

The Agreement form which the successful bidder, as Contractor, will be required to execute, and the forms and amounts of surety bonds which he will be required to furnish at the time of execution of the Agreement, are included in the contract documents and shall be carefully examined by the bidder. The required number of executed copies of the Agreement, the Performance Bond, and the Payment Bond for Public Works is as specified in the Special Conditions.

The Performance Bond must be executed by an admitted Surety approved to conduct business in the State of California which meets the highest standards the District is legally permitted to establish and which it has established.

The Payment Bond must be in the amount of 100 percent of the total amount payable. The Payment Bond must be executed by an admitted Surety approved to conduct business in the State of California which meets the highest standards the District is legally permitted to establish.

Bonds shall be in the form set forth in the contract documents.

10. Interpretation of Plans and Documents

If any person contemplating submitting a bid for the proposed contract is in doubt as to the true meaning of any part of the drawings, specifications, or other contract documents, or other information pertaining to the site (including any available soils or geotechnical report) or finds discrepancies in, or omissions from the drawings and specifications, he is hereby required in accordance with Public Contract Code section 1104 to submit to the Architect a written request for an interpretation or correction thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the contract documents or other available information will be made only by addendum duly issued and a copy of such addendum will be mailed or delivered to each person receiving a set of the contract documents. At the option of the District, all addenda may be mailed, delivered, faxed, made available for pick-up or sent via electronic mail. District shall have the option to send a hard copy via regular mail or overnight delivery, at the option of District. No oral interpretation of any provision in the contract documents will be made to any bidder. Numbers spelled out in words will take precedence over numerals / figures. The last date to submit a request for information shall be May 21, 2021.

11. Bidders Interested in More Than One Bid and Bidders Not Qualified to Bid

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No person, firm, or corporation shall be allowed to make, or file, or be interested in more than one bid for the same work unless alternate bids are specifically called for. 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 subproposal or quoting prices to other bidders or making a prime proposal. **No person, firm, or corporation shall be allowed to bid who has participated in the preparation of contract specifications; a bid by such a person, firm or corporation shall be determined to be nonresponsive.**

12. Award of Contract

The District reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding. The award of the contract, if made by the District, will be to the lowest responsible bidder therefore.

13. Additive and Deductive Items: Method of Determining Lowest Bid

Pursuant to Public Contract Code section 20103.8, should this bid solicitation include 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 taken in the numerical order set forth in the bid form.

(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 bid form 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 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 additive or deductive items included in the bid solicitation.

14. Evidence of Responsibility

INFORMATION FOR BIDDERS

Upon the request of the District, a bidder whose bid is under consideration for the award of the contract shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, his construction experience in the type of work being required by the District, and his organization available for the performance of the contract and any other required evidence of the bidder's qualifications to perform the proposed contract. The District may consider such evidence before making its decision awarding the proposed contract. Failure to submit requested evidence of a bidder's responsibility to perform the proposed contract may result in rejection of the bid.

15. Listing Subcontractors

Each bidder shall submit with his sealed bid a list of the proposed subcontractors on this project as required by the Subletting and Subcontracting Fair Practices Act (Public Contract Code section 4100 and following). Forms for this purpose are furnished with the contract documents. **In addition to these requirements, within one business day after the bid opening, Contractor shall provide the address, phone number, and license number of each listed subcontractor.** If the bidder fails to provide information within one business day, District may in its discretion, reject the bid as nonresponsive.

16. Workers' Compensation

In accordance with the provisions of section 3700 of the Labor Code, Contractor shall secure the payment of compensation to his employees. Contractor shall sign and file with District the following certificate prior to performing the work under this contract:

I am aware of the provisions of section 3700 of the Labor Code which 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.

The form of such certificate is included as part of the contract documents.

17. Substitution of Security

Monies withheld by the District to ensure performance under the contract may be released in accordance with Public Contract Code section 22300 and the contract documents.

18. Contractor's License

If, at the time the bids are opened, bidder is not licensed to perform the project in accordance with division 3, chapter 9 of the Business and Professions Code of the State

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of California (Section 7028.15) and the Notice to Contractors Calling for Bids, the bid will not be considered.

19. Storm Water Permit for Construction Activity

As applicable, it shall be the responsibility of the successful bidder to file a Notice of Intent and procure a State Water Resources Control Board (State Water Board) National Pollutant Discharge Elimination System General Permit for Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction Activity (Permit). The successful bidder shall be solely responsible for preparing and implementing a Storm Water Pollution Prevention Plan (SWPPP) prior to initiating work. The successful bidder shall be responsible for procuring, implementing and complying with the provisions of the Permit and the SWPPP, including the standard provisions, monitoring and reporting requirements as required by Permit and as required by Article 69 of the General Conditions. It shall be the responsibility of all bidders to evaluate and include in the bid the cost of procuring the Permit and preparing the SWPPP as well as complying with the SWPPP and any necessary revisions to the SWPPP. The successful bidder shall also include in his bid the cost of monitoring as required by the Permit.

As applicable, it shall be the responsibility of the successful bidder to comply with the County of Ventura Low Impact Development techniques as outlined in the County of Ventura Low Impact Development Handbook and Appendices, available through the County of Ventura Department of Planning and Land Use, copy on file with the District.

Successful bidders will submit a weekly storm water observation and illicit discharge report to District's facilities department, attention Executive Director of Operations.

20. Ethics in Bidding.

The District expects the bidders to maintain high ethical standards in engaging in the competitive bidding process. The bid amount of one bidder should not be divulged to another before the award of the subcontract or order, nor should it be used by Contractor to secure a lower proposal from another bidder on that project (bid shopping). Subcontractors or Suppliers should not request information for the Contractor regarding any sub-bid in order to submit a lower proposal on that project (bid peddling). District will consider any bidder found to be engaging in such practices to be a non-responsible bidder and may reject its bid on that ground.

21. Substitutions and Special Brand Names

In accordance with Public Contract Code section 3400 "prior to or after the award of the contract", district must provide for "submission of data substantiating a request for a substitution of 'an equal' item." Therefore, **if the bidder is submitting "an equal" item**

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or product or work, the make and grade of the item, product or work which is to be substituted shall be provided to the District in the sealed bid submittal package.

The documentation submitted must include any and all illustrations, specifications, and other relevant data including catalogue information which describes the substituted item or product or work and substantiates that it is an "or equal" to the specified item or product or work. In addition, the submittal documentation must also include a statement of the cost implications of the substitution being requested stating whether and why the substitution will reduce or increase the contract price. The documentation submitted must also include information regarding the durability and life cycle cost of the substituted item, product or work. Substantiating data shall include a signed affidavit from the Contractor stating that the substituted item or product or work is equivalent to the specified item or product or work in every way except as listed on the affidavit. Failure to submit all the needed substantiating data, including the signed affidavit, may result in a determination that the bid is nonresponsive. BIDDERS ARE SPECIFICALLY NOTIFIED THAT THE SUBMISSION OF THIS DOCUMENTATION IN NO WAY OBLIGATES THE DISTRICT OR ITS REPRESENTATIVE TO REVIEW SUCH DOCUMENTATION PRIOR TO CONTRACT AWARD. FURTHERMORE, IF A PROPOSED SUBSTITUTION IS REJECTED, BIDDER SHALL BE RESPONSIBLE TO PROVIDE THE ITEM OR PRODUCT OR WORK AS ORIGINALLY SPECIFIED AT NO ADDITIONAL COST TO THE DISTRICT. DISTRICT HAS THE COMPLETE AND SOLE DISCRETION TO DETERMINE IF AN ITEM OR ARTICLE IS AN EQUAL ITEM.

22. Fingerprinting

By law it is the District's responsibility to determine whether a contractor must provide fingerprint certification. Pursuant to Education Code section 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 with the location where the contractor's employees are working, and whether the contractor's employees are working alone or with others. **A determination regarding whether fingerprint certification is required is contained in the special conditions.**

23. Labor Compliance Program.

This contract is subject to a labor compliance program, as described in subdivision (b) of Section 1771.5 of the Labor Code. If this contract is subject to the requirements of Section 1771.7 of the Labor Code, the District to is required initiate and enforce a labor compliance program, as described in subdivision (b) of Section 1771.5 of the Labor Code. The law requires that District's labor compliance program shall include, but not be limited to, the following requirements:

- (a) All bid invitations and public works contracts shall contain appropriate language concerning the requirements of this chapter.

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- (b) A pre-job conference shall be conducted with the contractor and subcontractors to discuss federal and state labor law requirements applicable to the contract.
- (c) Project contractors and subcontractors shall maintain and furnish, at a designated time, a certified copy of each weekly payroll containing a statement of compliance signed under penalty of perjury.
- (d) The District shall review, and, if appropriate, audit payroll records to verify compliance with this chapter.
- (e) The District shall withhold contract payments when payroll records are delinquent or inadequate.
- (f) The District shall withhold contract payments equal to the amount of underpayment and applicable penalties when, after investigation, it is established that underpayment has occurred.

The District shall enforce a labor compliance program. A copy of the labor compliance program as currently adopted by the District is included with these bid documents. The labor compliance program which is approved by the Director of the Department of Industrial Relations (the "Labor Compliance Program") is incorporated by reference into the Contract and it will be enforced as required by state law and regulations and the Director of the Department of Industrial Relations.

In accordance with subdivision (b)(1) of Section 1771.5 of the Labor Code, the following notice is given: Contractor and any subcontractors are required to review and comply with the provisions of the California Labor Code, Part 7, Chapter 1, beginning with Section 1720, and the regulations of the Department of Industrial Relations implementing those provisions as more fully discussed in the Contract Documents and the labor compliance program as currently adopted by the District which is included with the bid documents. These statutory and regulatory provisions contain specific requirements, for example, concerning the determination and payment of prevailing wages, retention, inspection and auditing of payroll records, use of apprentices, payment of overtime compensation, securing of workers compensation insurance, and various criminal penalties or fines which may be imposed for violations of the requirements of the chapter. Submission of a bid constitutes Contractor's representation that it has thoroughly reviewed these requirements.

24. Disabled Veterans Participation Goals.

In accordance with Education Code section 17076.11, this District has a participation

INFORMATION FOR BIDDERS

goal for disabled veteran business enterprises (“DVBE”) of at least 3 percent 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 for construction or modernization and expended each year by the District. 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 disabled veteran business enterprises in conjunction with the contract, so that the District can assess its success at meeting this goal.

The Office of Small Business and DVBE Certification (OSDC), (916) 375-4940, www.osmb.dgs.ca.gov/BIS/bis_queries/bis_queries_menu.asp,

is an information resource to assist bidders in locating Disabled Veteran Business Enterprises. (Please note: while the OSDC may be used as a resource, the DVBE Program administered by OSDC applies to state contracts not local agency (school district) contracts.)

25. **Bid Protests.**

Any bidder having submitted a bid on the project may file a protest against the proposed contract award or challenging the validity of other bids. The protest must meet all of the following requirements:

The protest shall be submitted in writing and shall contain all the materials required by these provisions; one that does not contain all the required material shall not be recognized.

The protest shall be received by the Owner no later than the close of business on the second business day after bid opening; one received after that time shall not be recognized.

Each protest shall contain the following:

- (a) Identification by name, address, and telephone number of the protesting person(s) company and/or organization and identification of the project to which the protest pertains.
- (b) The protest shall set forth in detail all grounds for the protest, including without limitation all facts, identification by name of any other bids or bidders involved with the protest, all supporting documentation, together with any legal authorities and/or argument in support of the grounds for the protest. Any matters not set forth in the written protest shall be deemed waived. All factual contentions must be supported by content, admissible, and credible evidence.

Any protest not conforming to the requirements of this section shall be rejected as invalid.

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Where a protest is filed in conformity with this section, the Owner's staff, or such individual(s) as may be designated by the Owner, shall review and evaluate the basis of protest and provide a written decision to the protesting bidder. The written decision shall either concur with or deny the protest.

Submission of a written protest to and receipt of a written decision from the Owner's staff shall be considered an administrative remedy, and failure to follow this procedure shall be a bar to any legal action.

The written decision by the Owner's staff may be appealed to the Owner. The appeal must be filed with the Owner's governing board or other governing body within two business days of the protesting bidder's receipt of the written decision of the Owner's staff.

The appeal must clearly state the reasons and basis for appealing the decision of the Owner's staff, making specific reference to any portions of the material submitted with the protest required.

A hearing on the appeal shall be held before the Owner's governing board or other governing body within 45 days of receipt of the appeal.

The owner's governing board or other governing body will make a decision within seven days following the hearing. The decision of the Owner's governing board or other governing body is not subject to arbitration, mediation, reconsideration, or further appeal.

Submission of an appeal to and receipt of a decision from the Owner's governing board or other governing body shall be considered an administrative remedy, and failure to follow this procedure shall be a bar to any legal action.

26. Procedure for Protesting Being Deemed a Non-Responsive Bidder.

Any bidder or prospective bidder deemed non-responsive after having submitted a bid may file an appeal of the action to the Owner's governing body or other governing body. The protest must meet all of the following requirements.

- (a) The appeal shall be submitted in writing, and shall contain all the materials required by these provisions; one that does not contain all the required material shall not be recognized.
- (b) The appeal must be received by the Owner's governing board or other governing body within two business days of the action by the Owner giving rise to the protest; one received after that time shall not be recognized.
- (c) A hearing on the appeal shall be held before the Owner's governing board or other governing body prior to the award of contract.

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- (d) The decision of the Owner's governing board or other governing body is not subject to arbitration, mediation, reconsideration, or further appeal.
- (e) Submission of a protest to and receipt of a decision from the Owner's governing board or other governing body shall be considered an administrative remedy, and failure to follow this procedure shall be a bar to any legal action.

END OF DOCUMENT

INFORMATION FOR BIDDERS

**DOCUMENT 00300
BID FORM**

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

1. Pursuant to and in compliance with your Notice to Contractors Calling for Bids and the other documents relating thereto, the undersigned bidder, having thoroughly examined and familiarized himself with the terms of the contract, the local conditions affecting the performance of the contract and the cost of the work at the place where the work is to be done, and with the drawings and specifications and other contract documents, hereby proposes and agrees to perform, within the time stipulated, the contract, including all of its component parts, and everything required to be performed, and to provide and furnish any and all of the labor, materials, tools, expendable equipment, and all utility and transportation services necessary to perform the contract and complete in a workmanlike manner all of the work required in connection with (complete all that apply):

**Electrical Replacement Project @ Topa Topa Elementary School
Project Number: 2021-1501**

all in strict conformity with the drawings and specifications and other contract documents, including addenda numbers _____, _____, and _____, on file at the office of the Director of Purchasing of said District for the **base bid amount of _____ Dollars (\$ _____)**.

Additive/Deductive Alternate #1 (if applicable): _____
Add/Subtract _____ Dollars (\$ _____).

2. It is understood that the District reserves the right to reject this bid and that this bid shall remain open and not be withdrawn for the period specified in the Notice to Contractors Calling for Bids.
3. The required bid security is attached hereto.
4. The required unit prices form is attached hereto.
5. The required contractor registration certifications form is attached hereto.
6. Non-collusion affidavit is attached hereto.
7. The required list of proposed subcontractors is attached hereto.
8. It is understood and agreed that bidder shall provide the addresses, telephone numbers, and license numbers of all listed subcontractors within one business day of bid opening or bidder's bid may be rejected as nonresponsive.
9. It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned after the opening of the bid, and within the time this bid is required to remain open, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the District a contract in the form attached hereto in accordance with the bid as accepted. The undersigned will also furnish and deliver to the District the Performance Bond and Payment Bond for Public Works as specified, all within five (5) days after receipt of notification of award. The work under the contract shall be commenced by the undersigned bidder, if awarded the contract, on the date to be stated in the District's Notice to the Contractor to Proceed, and shall be completed by the Contractor in the time specified in the contract documents.
10. Notice of acceptance or requests for additional information should be addressed to the undersigned at the address stated below.

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

12. Bidder certifies that he is licensed in accordance with the law providing for the registration of Contractors, License No. _____, Expiration Date _____, class of license _____.

I, _____, the _____ of the bidder, hereby certify under penalty of perjury under the laws of the State of California, that all of the information submitted by the bidder in connection with this bid and all of the representations made herein are true and correct.

Executed on this _____ day of _____ at _____ County, California.

Proper Name of Bidder _____

By _____

Signature of Bidder

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

Business Address: _____

Place of Residence: _____

Telephone: () _____

END OF DOCUMENT



AGREEMENT FOR CONSTRUCTION

SERVICES AGREEMENT NUMBER 2021-1501_

THIS CONTRACT is made and entered into this _____ day of _____, 20_____, by and between _____ (“Contractor”) and _____ School District (“District”) (“Contract”).

- 1. The Contractor shall furnish to the District for a total price of _____ Dollars (\$_____) (“Contract Price”), including a contingency allowance as provided in the project specifications of _thirty thousand_ Dollars (\$30,000_) the following services (“Services” or “Work”):

[LIST SERVICES OR ATTACH SCOPE OF WORK AND DESIGNATE AS EXHIBIT “A”]

- 2. Contractor shall perform the Work at _Topa Topa Elementary School_____ (“Premises” or “Site”). The Project is the scope of Work performed at the Site.
- 3. Work shall be completed within_sixty_ (_60_) consecutive calendar days (“Contract Time”) from the date specified in the District’s Notice to Proceed.
- 4. Contractor agrees that if the Work is not completed within the Contract Time and/or pursuant to the completion schedule, construction schedule, or project milestones developed pursuant to provisions of the Contract, it is understood, acknowledged, and agreed that the District will suffer damage which is not capable of being calculated. Pursuant to Government Code section 53069.85, Contractor shall pay to the District, as fixed and liquidated damages for these incalculable damages, the sum of_ two thousand Dollars (\$2000) per day for each and every calendar day of delay beyond the Contract Time or beyond any completion schedule, construction schedule, or project milestones established pursuant to the Contract.
- 5. The Contract Documents include only the following documents, as indicated:

- _____ Notice to Bidders
- _____ Instructions to Bidders
- _____ Bid Form and Proposal
- _____ Bid Bond
- _____ Designated Subcontractors List
- _____ Notice to Proceed
- _____ Terms and Conditions to Contract
- _____ Noncollusion Declaration
- _____ Prevailing Wage Certification

- _____ Asbestos & Other Hazardous Materials Certification
- _____ Lead-Product (s) Certification
- _____ Roofing Project Certification
- _____ Insurance Certification & Endorsements
- X Performance Bond
- X Payment Bond
- _____ Specifications

- _____ Workers' Compensation Certification
- _____ Criminal Background Investigation Certification
- _____ Drug-Free Workplace Certification
- _____ Tobacco-Free Environment Certification
- _____ Certification of Contractor and Subcontractor
- _____ PWC 100 submitted on Dept. of Industrial Relations website
- _____ Certification of Financial Relationships –AB 635
- _____ Certification of Financial Relationships in Regard to Roofing Project
- _____ Plans
- _____ Scope of Work

6. Contractor shall not commence the Work under this Contract until the Contractor has submitted and the District has approved the performance bond, payment (labor and material) bond, the certificate(s) and affidavit(s), and the endorsement(s) of insurance required under the Terms and Conditions and the District has issued a Notice to Proceed.
7. Payment for the Work shall be made in accordance with the Terms and Conditions.
8. The architect for the Project is _____ (“Architect”), the project manager on the Project is _____ (“Project Manager”), and the project inspector on the Project is _____ (“Project Inspector”). Contractor hereby acknowledges that the Architect, the Project Manager, the Project Inspector, and the Division of the State Architect have authority to approve and/or stop Work if the Contractor’s Work does not comply with the requirements of the Contract Documents, Title 24 of the California Code of Regulations, and all applicable laws. No work shall be carried on except with the knowledge and under the inspection of said Project Inspector. Project Inspector shall have free access to any or all parts of work at any time. Contractor shall furnish Project Inspector reasonable opportunities for obtaining such information as may be necessary to keep Project Inspector fully informed respecting progress, manner of work, and character of materials. The Contractor shall be liable for any delay caused by its non-compliant Work or its failure to provide proper notification for inspection.
9. Inspection and acceptance of the Work shall be performed by representative of the District.
10. Any notice required or permitted to be given under this Contract shall be deemed to have been given, served, and received if given in writing and either personally delivered or deposited in the United States mail, registered or certified mail, postage prepaid, return receipt required, or sent by overnight delivery service, or facsimile transmission, addressed as follows:

<u>District</u>	<u>Contractor</u>
_____ School District	Name: _____
ATTN: _____	ATTN: _____
[ADDRESS] _____	[ADDRESS] _____
[E - MAIL] _____	[E - MAIL] _____

Any notice personally given or sent by facsimile transmission shall be effective upon receipt. Any notice sent by overnight delivery service shall be effective the business day next following delivery to the overnight delivery service. Any notice given by mail shall be effective three (3) days after deposit in the United States mail.

11. Contractor shall guarantee all labor and material used in the performance of this Contract for a period of one year from the date of the District's written approval of the Work or as provided in the job specifications.
12. This Contract incorporates by this reference the Terms and Conditions attached hereto. Contractor, by executing this Contract, agrees to comply with all the Terms and Conditions.
13. Each party has the full power and authority to enter into and perform this Contract, and the person signing this Contract on behalf of each party has been properly authority and empowered to enter into this Contract.
14. By signing this Agreement, Contractor certifies, under penalty of perjury, that all the information provided in the Contract Documents is true, complete, and correct.

ACCEPTED AND AGREED on the date indicated below:

Dated: _____, 20__	Dated: _____ 20__
_____ School District	Contractor: _____
Signature: _____	Signature: _____
Print Name: _____	Print Name: _____
Print Title: _____	Print Title: _____
Address: _____	Address: _____
Telephone: _____	Telephone: _____
Facsimile: _____	Facsimile: _____
E-Mail: _____	E-Mail: _____

Information regarding Contractor:

License No.: _____	_____ :
Address: _____	Employer Identification and/or Social Security Number

Telephone: _____	
Facsimile: _____	
E-Mail: _____	

NOTE: Section 6041 of the Internal Revenue Code (26 U.S.C. 6041) and Section 1.6041-1 of Title 26 of the Code of Federal Regulations (26 C.F.R. 1.6041-1) requires the recipients of \$600.00 or more to furnish their taxpayer information to the payer. In order to comply with these requirements, the District requires the Contractor to furnish the information requested in this section.

Type of Business Entity:

- Individual Other: _____
 Sole Proprietorship
 Partnership
 Limited Partnership
 Corporation, State: _____
 Limited Liability Company

TERMS AND CONDITIONS TO CONTRACT

1. **NOTICE TO PROCEED:** District shall provide a Notice to Proceed to Contractor pursuant to the Contract at which time Contractor shall proceed with the Work.
2. **STANDARD OF CARE:** Contractor shall perform, diligently prosecute and complete the Work in a good and workmanlike manner within the Contract Time, and in strict conformity with all Contract Documents.
3. **SITE EXAMINATION:** Contractor has examined the Site and certifies that it accepts all measurements, specifications and conditions affecting the Work to be performed at the Site. By submitting its quote, Contractor warrants that it has made all Site examination(s) that it deems necessary as to the condition of the Site, its accessibility for materials, workers and utilities, and Contractor's ability to protect existing surface and subsurface improvements. No claim for allowance of time or money will be allowed as to any other undiscovered condition on the Site.
4. **PERMITS, LICENSES AND REGISTRATION:** Contractor and all of its employees, agents, and subcontractors shall secure and maintain in force, at Contractor's sole cost and expense, all licenses, registration and permits as are required by law, in connection with the furnishing of materials, supplies, or services herein listed.
5. ~~**PROJECT INSPECTION CARD:** Contractor shall verify that forms DSA 152 Project Inspection Card (or current version) are issued for the Project prior to commencement of construction.~~
6. **NOTIFICATION:** Contractor shall notify the Architect and Project Inspector, in writing, of the commencement and completion of construction of each and every aspect of the work at least 48 hours in advance by submitting form DSA 156 (or the most current version) to the Project Inspector. Forms are available on the DSA's website at: <http://www.dgs.ca.gov/dsa/Forms.aspx>.
7. **EQUIPMENT AND LABOR:** Contractor shall furnish all tools, equipment, apparatus, facilities, transportation, labor, and material necessary to furnish the services herein described, the services to be performed at such times and places as directed by and subject to the approval of the authorized District representative indicated in the Work specifications attached hereto.
8. **SUBSTITUTIONS:** No substitutions of material from those specified in the Work Specifications shall be made without the prior written approval of the District. Contractor shall be responsible for any re-design costs occasioned by District's acceptance and/or approval of any substitute, as well as any costs that the District incurs for professional services, including DSA fees. District may deduct those costs from any amounts owing to Contractor for the review of the request for substitution, even if the request for substitution is not approved. Contractor shall, in the event that a substitute is less costly than that specified, credit the District with one-hundred percent (100%) of the net difference between the substitute and the originally specified material.

9. INDEPENDENT CONTRACTOR STATUS: While engaged in carrying out the Services of this Contract, the Contractor is an independent contractor, and not an officer, employee, agent, partner, or joint venture of the District. Contractor shall be solely responsible for its own Worker's Compensation insurance, taxes, and other similar charges or obligations. Contractor shall be liable for its own actions, including its negligence or gross negligence, and shall be liable for the acts, omissions, or errors of its agents or employees.

10. CONTRACTOR SUPERVISION: Contractor shall provide competent supervision of personnel employed on the job Site, use of equipment, and quality of workmanship.

11. WORKERS: Contractor shall at all times enforce strict discipline and good order among its employees and the employees of its subcontractors and shall not employ or work any unfit person or anyone not skilled in work assigned to him or her. Any person in the employ of the Contractor or a subcontractor whom the District may deem incompetent or unfit shall be dismissed from the Site and shall not again be employed at Site without written consent from the District.

12. SUBCONTRACTORS: Subcontractors, if any, engaged by the Contractor for any Service or Work under this Contract shall be subject to the approval of the District. Contractor agrees to bind every subcontractor by the terms of the Contract as far as such terms are applicable to subcontractor's work, including, without limitation, all indemnification, insurance, bond, and warranty requirements. If Contractor shall subcontract any part of this Contract, Contractor shall be fully responsible to the District for acts and omissions of its subcontractor and of persons either directly or indirectly employed by itself. Nothing contained in the Contract Documents shall create any contractual relations between any subcontractor and the District.

13. SAFETY AND SECURITY: Contractor is responsible for maintaining safety in the performance of this Contract. Contractor shall be responsible to ascertain from the District the rules and regulations pertaining to safety, security, and driving on school grounds, particularly when children are present.

14. FINGERPRINTING OF EMPLOYEES: Contractor shall comply with the provisions of Education Code section 45125.1 regarding the submission of employee fingerprints to the California Department of Justice and the completion of criminal background investigations of its employees. Contractor shall not permit any employee to have any contact with District pupils until such time as the Contractor has verified in writing to the governing board of the District that the employee has not been convicted of a felony, as defined in Education Code section 45122.1. Contractor's responsibility shall extend to all employees, subcontractors, agents, and employees or agents of subcontractors regardless of whether those individuals are paid or unpaid, concurrently employed by the District, or acting as independent contractors of the Contractor. Unless the District determines that the Contractor will have limited contact with students, verification of compliance with this section and the Criminal Background Investigation Certification required with this Contract shall be provided to the District prior to Contractor performing any portion of the Work.

15. TRENCH SHORING: If this Contract is in excess of \$25,000 and is for the excavation of any trench deeper than five (5) feet, Contractor must submit and obtain District acceptance, in advance of excavation, of a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. If the plan varies from the shoring system standards, the plan shall be prepared by a registered civil or structural engineer.

16. EXCAVATIONS OVER FOUR FEET: If this Contract includes excavations over four (4) feet,

Contractor shall promptly, and before the following conditions are disturbed, notify the District, in writing, of any: (1) Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law; (2) Subsurface or latent physical conditions at the site differing from those indicated; or (3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract. The District shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a change order under the procedures described in the Contract. In the event that a dispute arises between the District and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the work, the Contractor shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all Work to be performed under the contract. The Contractor shall retain any and all rights provided either by Contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

17. LEAD-BASED PAINT: Pursuant to the Lead-Safe Schools Protection Act (Education Code Section 32240 et seq.) and other applicable law, no lead-based paint, lead plumbing and solders, or other potential sources of lead contamination shall be utilized on this Project, and only trained and state-certified contractors, inspectors and workers shall undertake any action to abate existing risk factors for lead. Pursuant to the Renovation, Repair and Painting Rule (title 40 of the Code of Federal Regulations part 745 (40 CFR 745)), all contractors who disturb lead-based paint in a six-square-foot area or greater indoors or a 20-square-foot area outdoors must be trained by an EPA accredited provider and certified by the EPA. Contractor must execute the Lead-Based Paint Certification, if applicable.

18. CLEAN UP: Debris shall be removed from the Premises. The Site shall be in order at all times when work is not actually being performed and shall be maintained in a reasonably clean condition.

19. PROTECTION OF WORK AND PROPERTY: Contractor shall erect and properly maintain at all times, as required by conditions and progress of the Work, all necessary safeguards, signs, barriers, lights, and security persons for protection of workers and the public, and shall post danger signs warning against hazards created by the Work. In an emergency affecting life and safety of life or of Work or of adjoining property, Contractor, without special instruction or authorization from District, is permitted to act at his discretion to prevent such threatened loss or injury.

20. FORCE MAJEURE: The Contractor shall be excused from performance hereunder during the time and to the extent that it is prevented from obtaining delivery, or performing by act of God, fire, strike, loss, or shortage of transportation facilities, lock-out, commandeering of materials, product, plant, or facilities by the government, when satisfactory evidence thereof is presented to the District, provided that it is satisfactorily established that the non-performance is not due to the fault or neglect of the Contractor.

21. CORRECTION OF ERRORS: Contractor shall perform, at its own cost and expense and without reimbursement from the District, any work necessary to correct errors or omissions which are caused by the Contractor's failure to comply with the standard of care required herein.

22. ACCESS TO WORK: District representatives, Architect, and Project Inspector shall at all time have access to the Work wherever it is in preparation or in progress. Contractor shall provide safe and proper facilities for such access.

23. OCCUPANCY: District reserves the right to occupy buildings at any time before formal Contract completion and such occupancy shall not constitute final acceptance or approval of any part of the Work covered by this Contract, nor shall such occupancy extend the date specified for completion of the Work.

24. PAYMENT: On a monthly basis, Contractor shall submit an application for payment based upon the estimated value for materials delivered or services performed under the Contract as of the date of submission ("Application for Payment"). Within thirty (30) days after District's approval of the Application for Payment, Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of the Work performed (as verified by Architect and Inspector and certified by Contractor) up to the last day of the previous month, less the aggregate of previous payments and amount to be withheld. The District may withhold or deduct from any payment an amount necessary to protect the District from loss because of: (1) liquidated damages which have accrued as of the date of the application for payment; (2) any sums expended by the District in performing any of Contractor's obligations under the Contract which Contractor has failed to perform or has performed inadequately; (3) defective Work not remedied; (4) stop payment notices as allowed by state law; (5) reasonable doubt that the Work can be completed for the unpaid balance of the Total Contract price or by the scheduled completion date; (6) unsatisfactory prosecution of the Work by Contractor; (7) unauthorized deviations from the Contract; (8) failure of the Contractor to maintain or submit on a timely basis proper and sufficient documentation as required by the Contract or by District during the prosecution of the Work; (9) erroneous or false estimates by the Contractor of the value of the Work performed; (10) any sums representing expenses, losses, or damages, as determined by the District, incurred by the District for which Contractor is liable under the Contract; and (11) any other sums which the District is entitled to recover from Contractor under the terms of the Contract or pursuant to state law, including section 1727 of the California Labor Code. The failure by the District to deduct any of these sums from a progress payment shall not constitute a waiver of the District's right to such sums. The District shall retain five percent (5%) from all amounts owing as retention. Retention shall be paid pursuant to Public Contract Code sections 7107, 7200 and 7201.

25. CHANGE IN SCOPE OF WORK: Any change in the scope of the Work, method of performance, nature of materials or price thereof, or any other matter materially affecting the performance or nature of the Work shall not be paid for or accepted unless such change, addition, or deletion is approved in advance and in writing by a valid change order executed by the District. Contractor specifically understands, acknowledges, and agrees that the District shall have the right to request any alterations, deviations, reductions, or additions to the Project or Work, and the cost thereof shall be added to or deducted from the amount of the Contract Price by fair and reasonable valuations. Contractor also agrees to provide the District with all information requested to substantiate the cost of the change order and to inform the District whether the Work will be done by the Contractor or a subcontractor. In addition to any other information requested, Contractor shall submit, prior to approval of the change order, its request for a time extension (if any), as well as all information necessary to substantiate its belief that such change will delay the completion of the Work. If Contractor fails to submit its request for a time extension or the necessary supporting information, it shall be deemed to have waived its right to request such extension.

26. INDEMNIFICATION: To the furthest extent permitted by California law, Contractor agrees to defend, indemnify, and hold harmless District, its officers, agents, employees, and/or volunteers

from any and all claims, demands, losses, damages and expenses, including legal fees and costs, or other obligations or claims arising out of any liability or damage to person or property, or any other loss, sustained or claimed to have been sustained arising out of activities of the Contractor or those of any of its officers, agents, employees, or subcontractors of Contractor, whether such act or omission is authorized by this Agreement or not. Contractor shall also pay for any and all damage to the Real and Personal Property of the District, or loss or theft of such Property, done or caused by such persons. District assumes no responsibility whatsoever for any property placed on District premises by Contractor, Contractor's agents, employees or subcontractors. Contractor further hereby waives any and all rights of subrogation that it may have against the District. The District shall have the right to accept or reject any legal representation that Contractor proposes to defend the District. The provisions of this Indemnification do not apply to any damage or losses caused solely by the negligence of the District or any of its officers, agents, employees, and/or volunteers.

27. CONTRACTOR'S INSURANCE: Contractor, at its own cost and expense, shall procure and maintain during the term of this Contract, policies of insurance for the following types of coverage

27.1 Workers' Compensation and Employers' Liability Insurance. Contractor shall procure and maintain, during the term of this Agreement, Workers' Compensation Insurance, as required by California law, on all of its employees engaged in work related to the performance of this Agreement. In the case of any such work which is subcontracted, Contractor shall require all subcontractors to provide Workers' Compensation Insurance for all of the subcontractor's employees to be engaged in such work unless such employees are covered by the protection afforded by the Contractor's Workers' Compensation Insurance.

Contractor and all subcontractors shall procure and maintain, during the term of this Agreement Employers' Liability insurance of \$1,000,000.

27.2 Commercial General Liability Insurance. Contractor shall procure and maintain, during the term of this Agreement, not less than the following General Liability Insurance coverage:

	<u>Each Occurrence</u>	<u>Aggregate</u>
Low Risk Projects	\$ 1,000,000.00	\$ 2,000,000.00
Intermediate Risk	\$ 2,000,000.00	\$ 4,000,000.00
High Risk	\$ 5,000,000.00	\$ 10,000,000.00

Commercial General Liability insurance shall include products/completed operations, broad form property damage, and personal and advertising injury coverage.

Any and all subcontractors hired by Contractor in connection with the Services described in this Contract shall maintain such insurance unless the Contractor's insurance covers the subcontractor and its employees.

27.3 Automobile Liability. If vehicles will be driven on district property, Contractor shall procure and maintain, during the full term of this Agreement following Automobile Liability Insurance with the following minimum coverage limits:

Personal vehicles:	\$ 500,000.00 combined single limit or \$ 100,000.00 per person / \$300,000.00 per accident
Commercial vehicles:	\$1,000,000.00 combined single limit

Contractor's and any and all subcontractor's Commercial Automobile Liability Insurance shall name the District, its employees, and school board members as additional insureds.

27.4 Builder's Risk. District shall procure and maintain, during the term of this Contract, Builders' Risk coverage.

~~27.5 Other Coverage as Dictated by the District. Contractor shall procure and maintain, during the term of this Agreement, the following other Insurance coverage:~~

	<u>Each Occurrence</u>	<u>Aggregate</u>
<input type="checkbox"/> Pollution Liability	\$ 1,000,000.00	\$ 2,000,000.00
<input type="checkbox"/> Other: _____	\$ _____	\$ _____

27.6 Certificates of Insurance. Contractor and any and all subcontractors working for Contractor shall provide certificates of insurance to the District as evidence of the insurance coverage required herein, not less than fifteen (15) days prior to commencing work for the District, and at any other time upon the request of the District. Certificates of such insurance shall be filed with the District on or before commencement of the services under this Agreement.

Contractor's and any and all Contractor subcontractor's Commercial General Liability insurance shall name the District, its employees, and school board members; the Architect; and the Project Manager as additional insureds. The Contractor's policy(ies) shall be primary; any insurance carried by the District, other than Builder's Risk, shall only be secondary and supplemental.

Insurance written on a "claims made" basis is to be renewed by the Contractor and all Contractor subcontractors for a period of five (5) years following termination of this Agreement. Such insurance must have the same coverage and limits as the policy that was in effect during the term of this agreement, and will cover the Contractor for all claims made.

The policy(ies) shall not be amended or modified and the coverage amounts shall not be reduced without thirty (30) days written notice to the District prior to cancellation.

27.7 Failure to Procure Insurance. Failure on the part of Contractor, or any of its subcontractors, to procure or maintain required insurance shall constitute a material breach of contract under which the District may immediately terminate this Contract.

28. PAYMENT BOND AND PERFORMANCE BOND: Contractor shall not commence the Work until it has provided to the District, in a form acceptable to the District, a Payment (Labor and Material)

Bond and a Performance Bond, each in an amount equivalent to one hundred percent (100%) of the Contract Price issued by a surety admitted to issue bonds in the State of California and otherwise acceptable to the District.

29. WARRANTY/QUALITY: Unless a longer warranty is called for elsewhere in the Contract Documents, the Contractor, manufacturer, or their assigned agents shall guarantee the workmanship, product or service performed against defective workmanship, defects or failures of materials for a minimum period of one (1) year from filing the Notice of Completion with the county in which the Site is located. All workmanship and merchandise must be warranted to be in compliance with applicable California energy, conservation, environmental, and educational standards.

30. CONFIDENTIALITY: The Contractor shall maintain the confidentiality of all information, documents, programs, procedures, and all other items that Contractor encounters while performing the Contractor's Services to the extent allowed by law. This requirement shall be ongoing and shall survive the expiration or termination of this Contract and specifically includes all student, parent, and disciplinary information.

31. COMPLIANCE WITH LAWS: Contractor shall give all notices and comply with all laws, ordinance, rules and regulations bearing on conduct of the Work as indicated or specified. If Contractor observes that any of the Work required by this Contract is at variance with any such laws, ordinance, rules or regulations, Contractor shall notify the District, in writing, and, at the sole option of the District, any necessary changes to the scope of the Work shall be made and this Contract shall be appropriately amended in writing, or this Contract shall be terminated effective upon Contractor's receipt of a written termination notice from the District. If Contractor performs any work that is in violation of any laws, ordinances, rules or regulations, without first notifying the District of the violation, Contractor shall bear all costs arising therefrom.

32. LABOR CODE REQUIREMENTS: The Contractor shall comply with all applicable provisions of the California Labor Code, Division 3, Part 7, Chapter 1, Articles 1 – 5, including, without limitation, the payment of the general prevailing per diem wage rates for public work projects of more than one thousand dollars (\$1,000). Copies of the prevailing rate of per diem wages are on file with the District. In addition, the Contractor and each subcontractor shall comply with Chapter 1 of Division 2, Part 7 of the California Labor Code, beginning with Section 1720, and including Section 1735, 1777.5 and 1777.6, forbidding discrimination, and Sections 1776, 1777.5 and 1777.6 concerning the employment of apprentices by Contractor or subcontractors. Willful failure to comply may result in penalties, including loss of the right to bid on or receive public works contracts.

32.1 State Labor Compliance: Contractor shall perform the Work of the Project while complying with all the applicable regulations, including section 16000, et seq., of Title 8 of the California Code of Regulations and is subject to State labor compliance monitoring and enforcement by the Compliance Monitoring Unit of the Department of Industrial Relations.

32.2 Certified Payroll Records: Contractor and its subcontractor(s) shall keep accurate certified payroll records of employees and shall electronically submit certified payroll records directly to the Labor Commissioner weekly and within ten (10) days of any request by the District or the Labor Commissioner in accordance with section 16461 of Title 8 of the California Code of Regulations.

33. ANTI-DISCRIMINATION: It is the policy of the District that in connection with all work performed under Contracts there be no discrimination against any employee engaged in the work

because of race, color, ancestry, national origin, religious creed, physical disability, medical condition, marital status, sexual orientation, gender, or age and therefore 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 Section 12900 and Labor Code Section 1735. In addition, the Contractor agrees to require like compliance by all its subcontractor(s).

34. DISABLED VETERAN BUSINESS ENTERPRISES: Section 17076.11 of the Education Code requires school districts using funds allocated pursuant to the State of California School Facility Program for the construction or modernization of a school building (SFP Funds) to have a participation of at least three percent (3%), per year, of the overall dollar amount expended each year by the school district, for disabled veteran business enterprises (DVBE). If this Contract uses SFP Funds, Contractor must submit, with its executed Contract, appropriate documentation to the District identifying the steps Contractor has taken to solicit DVBE participation in conjunction with this Contract.

35. ANTI-TRUST CLAIM: Contractor and its subcontractor(s) agree to assign to the District all rights, title, and interest in and to all causes of action they may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the Contract or a subcontract. This assignment shall be made and become effective at the time the District tenders final payment to the Contractor, without further acknowledgment by the parties.

36. DISPUTES: In the event of a dispute between the parties as to performance of the Work, the interpretation of this Contract, or payment or nonpayment for work performed or not performed, the parties shall attempt to resolve the dispute by those procedures set forth in Public Contract Code section 20104, et seq., if applicable. Pending resolution of the dispute, Contractor agrees it will neither rescind the Contract nor stop the progress of the Work, but will allow determination by the court of the State of California, in the county in which the District's administration office is located, having competent jurisdiction of the dispute. All claims of over \$375,000, which are outside the scope of Public Contract Code section 20104, et seq., may be determined by mediation if mutually agreeable, otherwise by litigation. Notice of the demand for mediation of a dispute shall be filed in writing with the other party to the Contract. The demand for mediation of any claim of over \$375,000 shall be made within a reasonable time after written notice of the dispute has been provided to the other party, but in no case longer than ninety (90) days after initial written notice, and the demand shall not be made later than the time of Contractor submission of the request for final payment. If a claim, or any portion thereof, remains in dispute upon satisfaction of all applicable dispute resolution requirements, the Design-Builder shall comply with all claims presentation requirements as provided in Chapter 1 (commencing with section 900) and Chapter 2 (commencing with section 910) of Part 3 of Division 3.6 of Title 1 of Government Code as a condition precedent to the Contractor's right to bring a civil action against the District. For purposes of those provisions, the running of the time within which a claim must be presented to the District shall be tolled from the time the claimant submits its written claim until the time the claim is denied, including any time utilized by any applicable meet and confer process.

37. ATTORNEY FEES/COSTS: Should litigation be necessary to enforce any terms or provisions of this Agreement, then each party shall bear its own litigation and collection expenses, witness fees, court costs and attorney's fees.

38. TERMINATION: If Contractor fails to perform the Services and Contractor's duties to the satisfaction of the District, or if Contractor fails to fulfill in a timely and professional manner Contractor's obligations under this Contract, or if Contractor violates any of the terms or

provisions of this Contract, District shall have the right to terminate this Contract effective immediately upon the District giving written notice thereof to the Contractor. The Contractor and its performance bond surety, if any, shall be liable for all damages caused to the District by reason of the Contractor's failure to perform and complete the Contract. District shall also have the right in its sole discretion to terminate the Contract for its own convenience upon District giving three (3) days written notice thereof to the Contractor. In case of a termination for convenience, Contractor shall be paid for the actual cost for labor, materials, and services performed that is unpaid and can be documented through timesheets, invoices, receipts, or otherwise, and five percent (5%) of the total cost of Work performed as of the date of termination, or five percent (5%) of the value of the Work yet to be performed, whichever is less. This five percent (5%) shall be full compensation for all of Contractor's and its subcontractor(s)' mobilization and/or demobilization costs and any anticipated loss profits resulting from termination of the Contractor for convenience. Termination shall have no effect upon any of the rights and obligations of the parties arising out of any transaction occurring prior to the effective date of termination.

39. ASSIGNMENT OF CONTRACT: Contractor shall not assign or transfer in any way any or all of its rights, burdens, duties, or obligations under this Contract without the prior written consent of the District.

40. TIME IS OF THE ESSENCE: Time is of the essence in the performance of and compliance with each of the provisions and conditions of this Contract.

41. CALCULATION OF TIME: For the purposes of this Contract, "days" refers to calendar days unless otherwise specified.

42. GOVERNING LAW AND VENUE: Contractor hereby acknowledges and agrees that District is a public entity, which is subject to certain requirements and limitations. This Contract and the obligations of District hereunder are subject to all applicable federal, state and local laws, rules, and regulations, as currently written or as they may be amended from time to time. This Contract shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this Contract, the action shall be brought in state or federal court situated in the County of **Ventura**, State of California. Contractor hereby waives and expressly agrees not to assert, claim or allege, in any way, that it is not subject to the personal jurisdiction of the courts named above. Contractor further agrees to waive any claim or allegation that the suit, action, or proceeding is either brought in an inconvenient forum or that the related venue is improper.

43. BINDING CONTRACT: This Contract shall be binding upon the parties hereto and upon their successors and assigns, and shall inure to the benefit of said parties and their successors and assigns.

44. DISTRICT WAIVER: District's waiver of any term, condition, covenant or waiver of a breach of any term, condition or covenant shall not constitute the waiver of any other term, condition or covenant or the waiver of a breach of any other term, condition or covenant.

45. CAPTIONS AND INTERPRETATIONS: Paragraph headings in this Contract are used solely for convenience, and shall be wholly disregarded in the construction of this Contract. No provision of this Contract shall be interpreted for or against a party because that party or its legal representative drafted such provision, and this Contract shall be construed as if jointly prepared by the parties.

46. INVALID TERM: If any provision of this Contract is declared or determined by any court of

competent jurisdiction to be illegal, invalid or unenforceable, the legality, validity or enforceability of the remaining parts, terms and provisions shall not be affected thereby, and said illegal, unenforceable or invalid part, term or provision will be deemed not to be a part of this Contract.

47. PROVISIONS REQUIRED BY LAW DEEMED INSERTED: Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and this Contract shall be read and enforced as though it were included therein.

48. ENTIRE CONTRACT: This Contract sets forth the entire Contract between the parties hereto and fully supersedes any and all prior agreements, understanding, written or oral, between the parties hereto pertaining to the subject matter thereof. This Contract may be modified only by a writing upon mutual consent.

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DOCUMENT 00410

BID BOND

KNOW ALL MEN BY THESE PRESENTS: THAT we, _____, as Principal, and _____, as Surety, are held and firmly bound unto the Ojai Unified School District, hereinafter called the District, in the penal sum of PERCENT (10 %) OF THE TOTAL AMOUNT OF THE BID of the Principal submitted to the said District for the work described below for the payment of which sum in lawful money of the United States, 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 whereas the Principal has submitted the accompanying bid dated _____, 20__ for _____.

NOW, THEREFORE, if the Principal shall not withdraw said bid within the period specified therein after the opening of the same, or, if no period be specified, within sixty (60) days after said opening; and, if the Principal be awarded the contract, and shall within the period specified therefore, or, if no period be specified, within five (5) days after the prescribed forms are presented to him for signature, enter into a written contract with the District, in accordance with the bid as accepted and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such contract and for the payment for labor and materials used for the performance of the contract, or in the event of the withdrawal of said bid within the period specified or the failure to enter into such contract and give such bonds within the time specified, if the Principal shall pay the District the difference between the amount specified in said bid and the amount for which the District may procure the required work and/or supplies, if the latter amount be in excess of the former, together with all costs incurred by the District in again calling for bids, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

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

In the event suit is brought upon this bond by the District and judgment is recovered, the Surety shall pay all litigation expenses incurred by the District in such suit, including reasonable attorneys' fees, court costs, expert witness fees and investigation expenses.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals this _____ day of _____, 20 ____, the name and corporate seal of each corporate party being hereto affixed and these presents duly assigned by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

PRINCIPAL _____

By: _____

Title: _____

SURETY: _____

By: _____

Attorney-in Fact

(Attach Attorney-in-Fact Certificate)

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DOCUMENT 00430
DESIGNATION OF SUBCONTRACTORS

In compliance with the Subletting and Subcontracting Fair Practices Act (chapter 4 (commencing at section 4100), part 1, division 2 of the Public Contract Code of the State of California) and any amendments thereof, each bidder shall set forth below: (a) the name and the location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement to be performed under this contract or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications in an amount in excess of one-half of one percent of the prime contractor's total bid and (b) the portion of the work which will be done by each subcontractor under this contract. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in this bid.

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

No prime contractor whose bid is accepted shall (a) substitute any subcontractor, (b) permit any subcontract to be voluntarily assigned or transferred or allow it to be performed by any one other than the original subcontractor listed in the original bid, or (c) sublet or subcontract any portion of the work in excess of one-half of one percent of the prime contractor's total bid as to which his original bid did not designate a subcontractor, except as authorized in the Subletting and Subcontracting Fair Practices Act. Subletting or subcontracting of any portion of the work in excess of one-half of one percent of the prime contractor's total bid as to which no subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the authority awarding this contract setting forth the facts constituting the emergency or necessity.

In addition to providing the information required by this form prior to the bid opening, bidder shall be required to submit the addresses, telephone numbers, and license numbers of all listed subcontractors within one business day of the bid opening. Failure to provide the foregoing information within the time limit specified may result in the rejection of the bid as nonresponsive.

DESIGNATION OF SUBCONTRACTORS

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SECTION 00431
CERTIFICATION OF CONTRACTOR AND
SUBCONTRACTOR DIVISION OF INDUSTRIAL RELATIONS REGISTRATION
(DIR)

Pursuant to Public Contract Code Section 1725.5, a contractor or subcontractor must be registered with the Department of Industrial relations in order to bid on, to be listed in a bid proposal or to engage in the performance of any defined public work contract.

I _____, _____ certify that
(Name) (Title)

_____ is currently registered as a contractor with the Department of Industrial
(Contractor Name)

Relations (DIR):

Contractor's DIR Registration Number _____

Expiration date June 30, 20__

Contract further acknowledges:

1. Contractor shall maintain DIR registered status for the duration of the project without a gap in registration.
2. Contractor shall note in its invitation to bid the DIR's registration requirement for all subcontractors and their subcontractors.
3. Contractor shall ensure that all subcontractors are registered at time of bid opening and maintain registered status for the duration of the project.
4. Contractor is to furnish DIR Registration Number for all subcontractors on the project within 24 hours of the bid opening.
5. Contractor shall substitute any subcontractor with a DIR registered contractor if listed subcontractor is unable to perform the work.

Failure to comply with any of the above may result in a determination of non-responsiveness.

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

Signature

Date

CONTRACTOR REGISTRATION CERTIFICATIONS

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DOCUMENT 00480
NONCOLLUSION AFFIDAVIT

(To be executed by Bidder and submitted with bid)

State of California)
)
County of _____)

_____ (Name), being first duly sworn, deposes and says that he is the _____ (Title) of the _____ (Name) party making the attached bid; 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, 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 certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed this _____ day of _____, 20____ at _____, California.

Date: _____
_____ Signature of Bidder

NONCOLLUSION AFFIDAVIT

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PREVAILING WAGE CERTIFICATION

I hereby certify that I will conform to the State of California Public Works Contract requirements regarding prevailing wages, benefits, on-site audits with 48-hours notice, payroll records, and apprentice and trainee employment requirements, for all Work on the above Project, including, without limitation, the State labor compliance monitoring and enforcement by the Compliance Monitoring Unit of the Department of Industrial Relations.

Date: _____

Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

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WORKERS' COMPENSATION CERTIFICATION

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:

- a. By being insured against liability to pay compensation by 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 section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake selfinsurance 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.

Date: _____

Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

(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 filed with the awarding body prior to performing any Work under this Contract.)

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CRIMINAL BACKGROUND INVESTIGATION CERTIFICATION

The undersigned does hereby certify to the governing board of the District as follows:

- That I am a representative of the Contractor under contract with the District;
- That I am familiar with the facts herein certified; and
- That I am authorized and qualified to execute this certificate on behalf of Contractor.

Contractor certifies that it has taken at least one of the following actions with respect to the construction Project that is the subject of the Contract (check all that applies):

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 Work 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.

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.

Date: _____

Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

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DOCUMENT 00845

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

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

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

- 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.
 - 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 publish a statement notifying employees concerning (a) the prohibition of controlled substance at the workplace, (b) establishing a drug-free awareness program, and (c) requiring that each employee engaged in the performance of the contract be given a copy of the statement required by section 8355(a) and requiring that the employee agrees 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 sections 8350 et seq.

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

Date: _____

Contractor

Signature

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

Project Name _____

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

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ASBESTOS-FREE MATERIALS CERTIFICATION

The undersigned declares that he or she is the person who executed the bid for Project Name (Hereinafter referred to as the "Project", and submitted it to the _____ SCHOOL DISTRICT (hereinafter referred to as the "Owner" on behalf of _____ (hereinafter referred to as the "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.

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____ at _____.

Name of Contractor (Print or Type)

By: _____
Signature

Print Name

JURAT

Title

State of California
County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Notary Public in and for
the State of California

Seal

My Commission Expires: _____

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DOCUMENT 00600

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That

WHEREAS, the _____ School District (hereinafter designated as "Public Entity"), by action taken or a resolution passed _____, 20____, has awarded to _____, hereinafter designated as the "Principal," a contract for the work described as follows (check those that apply):

- Electrical Replacement Project @ Topa Topa Elementary School**
- PROJECT NO. 2021-1501**

(the "Project"); and

WHEREAS, said Principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract,

NOW THEREFORE, we, the Principal and, as _____ (surety name) Surety, are held and firmly bound unto the Public Entity 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 above bounded Principal, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by and well and truly keep and perform, the covenants, conditions, and agreements in the said contract and any alteration thereof made as therein provided, on his or their part, 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 indemnify and save harmless the Public Entity, 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 virtue.

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

In the event suit is brought upon this bond by the District and judgment is recovered, the Surety shall pay all litigation expenses incurred by the District in such suit, including attorneys' fees, court costs, expert witness fees and investigation expenses.

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

PRINCIPAL _____

By: _____

[Attach required acknowledgments]

SURETY _____

By: _____
Attorney-in-Fact

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**DOCUMENT 00610
PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS: That

WHEREAS, the _____ School District (hereinafter designated as "Public Entity"), by action taken or a resolution passed _____, 20____, has awarded to _____, hereinafter designated as the "Principal," a contract for the work described as follows (check those that apply):

- Electrical Replacement Project @ Topa Topa Elementary School**
- PROJECT NO. 2021-1501**

(the "Project"); and

WHEREAS, said Principal is required by Chapter 5 (commencing at Section 3225) and Chapter 7 (commencing at Section 3247), Title 15, Part 4, Division 3 of the California Civil Code to furnish a bond in connection with said contract;

NOW THEREFORE, we, the Principal and _____, as Surety, are held and firmly bound unto the Public Entity 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 said Principal, his or its subcontractors, heirs, executors, administrators, successors or assigns, shall fail to pay (1) any of the persons named in Section 3181 of the California Civil Code, (2) amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or (3) for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the contractor and his subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, with respect to such work and labor the surety or sureties will pay for the same, in an amount not exceeding the sum hereinabove specified, and also, in case suit is brought upon this bond, all litigation expenses incurred by the Public Entity in such suit, including reasonable attorneys' fees, court costs, expert witness fees and investigation expenses.

This bond shall inure to the benefit of any of the persons named in Section 3181 of the California Civil Code so as to give a right of action to such persons or their assigns in any suit brought upon this bond.

It is further stipulated and agreed that the Surety on this bond shall not be exonerated or released from the obligation of this 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 hereinabove described, 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 owner or Public Entity and original contractor or on the part of any obligee named in such bond, but the sole conditions of recovery shall be that claimant is a person described in Section 3110 or 3112 of the California Civil Code, and has not been paid the full amount of his claim and that Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned.

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

Principal _____

By _____
Surety _____

[Attach required acknowledgments]

By Attorney-in- Fact _____

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Scope of Work:

Topa Topa Elementary School (PROJ#-1501) 916 Mountain View Ave., Ojai, CA 93023

1. Electrical Replacement:

a. In summary, the work includes the construction of a new electrical equipment enclosure in front of the school and the installation of a new transformer and switchboard to serve the school. Two existing electrical meters and switchboards will remain in place and be energized from the new service. The enclosure will be constructed with concrete masonry units and chain link fencing.

b. Summer begins 6/14/2021

OWNERSHIP OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF HARTMANN ARCHITECTURE AND HARTMANN ARCHITECTURE STUDIO AND SHALL NOT BE REPRODUCED IN ANY FORM OR BY ANY MEANS, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT. COPYRIGHT © 2021 HARTMANN ARCHITECTURE STUDIO.

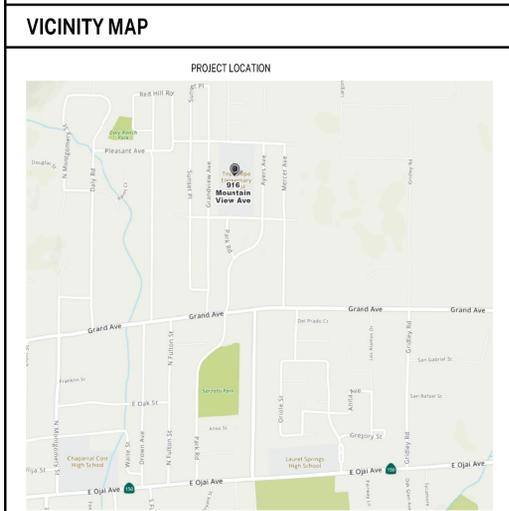
APPLICABLE CODES	
PARTIAL LIST OF APPLICABLE CODES AND STANDARDS AS OF JANUARY 1, 2020	
2019 CALIFORNIA BUILDING STANDARDS CODE (CAL. CODE REGS., TITLE 24)	
<ul style="list-style-type: none"> PART 1 - CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 2 - CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (CBC) PART 3 - CALIFORNIA RESIDENTIAL CODE (CRC) PART 4 - CALIFORNIA MECHANICAL CODE (CMC) PART 5 - CALIFORNIA PLUMBING CODE (CPC) PART 6 - CALIFORNIA ENERGY CODE (CEC) PART 7 - VACANT PART 8 - CALIFORNIA HISTORICAL BUILDING CODE (CHBC) PART 9 - CALIFORNIA FIRE CODE (CFC) PART 10 - CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) PART 12 - CALIFORNIA REFERENCED STANDARDS CODE 	
CALIFORNIA CODE OF REGULATIONS TITLE 19, PUBLIC SAFETY	
NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS:	
NFPA 10-18	STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13-16	STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS
NFPA 14-16	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM
NFPA 20-16	STANDARD FOR THE INSTALL. OF STATIONARY PUMPS FOR FIRE PROTECTION
NFPA 24-16	INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 54-15	NATIONAL FUEL GAS CODE
NFPA 72-16	NATIONAL FIRE ALARM AND SIGNALING CODE
NFPA 80-16	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES
NFPA 101-18	LIFE SAFETY CODE
NFPA 105-16	STANDARD FOR SMOKE DOOR ASSEMBLIES AND OTHER OPENING PROTECTIVES
NFPA 170-18	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS
NFPA 221-18	STANDARD FOR HIGH CHALLENGE FIRE WALLS, FIRE WALLS, AND FIRE BARRIER WALLS
NFPA 241	STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATIONS, AND DEMOLITION OPERATIONS
NFPA 252-17	STANDARD METHODS OF FIRE TESTS DOOR ASSEMBLIES
NFPA 253-15	STANDARD METHOD OF TEST FOR CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE
NFPA 257-17	STANDARD FOR FIRE TEST FOR WINDOW AND GLASS BLOCK ASSEMBLIES
NFPA 720-15	STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE (CO) DETECTION AND WARNING EQUIPMENT
REFERENCE 2019 CBC CHAPTER 35 FOR NFPA STANDARDS AND CA AMENDMENTS	

SYMBOLS LEGEND	
	DETAIL REFERENCE(S) DWG. NO SHEET NO
	DETAIL REF. DWG. NO SHEET NO
	SECTION DWG. NO SHEET NO
	EXTERIOR BUILDING ELEVATION(S) DWG. NO SHEET NO

ABBREVIATIONS			
AB	ANCHOR BOLT	IN	INCH (ES)
ABV	ABOVE	INS	INSULATE (D) (ING)
A/C	AIR CONDITIONING	INSP	INSPECT (ING) (ION) (OR)
AFF	ABOVE FINISHED FLOOR	INT	INTERIOR
AFG	ABOVE FINISHED GRADE	JT	JOINT
ADJ	ADJACENT, ADJOINING, ADJUSTABLE	JST	JOIST
AUTO	AUTOMATIC	KIT	KITCHEN
AVG	AVERAGE	LB(S)	POUND (S)
BD	BOARD	LAM	LAMINATE (D)
BRG	BEARING	LAV	LAVATORY
BM	BEAM	LDG	LEDGER
BN	BOUNDARY NAILING	LL	LIVE LOAD
BLK	BLOCK	LOS	LINE OF SIGHT
BLKG	BLOCKING	LPT	LOW POINT
BLW	BELOW	MB	MACHINE BOLT
BO	BOTTOM OF	MEMB	MEMBRANE
BOT	BOTTOM	MFR	MANUFACTURER
BLDG	BUILDING	MFR REC	MANUFACTURER'S RECOMMENDATIONS
BW	BOTH WAYS	MTR	MATERIAL
CB	CARRIAGE BOLT	MAX	MAXIMUM
CEM	CEMENT	MECH	MECHANICAL
CF	CUBIC FOOT/FEET	MED	MEDIUM
CTR	CENTER (ED)	MLB	MICRO-LAM BEAM
CLO	CLOSET	MTL	METAL
CLR	CLEAR (ANCE)	KP	KING POST
CO	CLEANOUT	MISC	MISCELLANEOUS
COL	COLUMN (S)	MO	MASONRY OPENING
CONC	CONCRETE	(N)	NEW
COORD	COORDINATE	N	NORTH
CMU	CONCRETE MASONRY UNIT	NA	NOT APPLICABLE
CU FT	CUBIC FOOT	NIC	NOT IN CONTRACT
CJ	CEILING JOIST	NTS	NOT TO SCALE
CU YD	CUBIC YARD	OC	ON CENTER
CW	COLD WATER	OH	OVERHANG, OVERHEAD
(D)	DEMOLISH	(P)	PROPOSED
DBL	DOUBLE	P	POST
DEG	DEGREE (S)	PLY	PLYWOOD
DSGN(R)	DESIGNER	PT	POINT
DL	DEAD LOAD	PCF	POUNDS PER CUBIC FOOT
DTL	DETAIL (S)	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DIM	DIMENSION (S)	PREFAB	PREFABRICATE (D)
DF	DOUGLAS FIR	PREP	PREPARE, PREPARATION
DN	DOWN	PFN	PREFINISH (ED)
DS	DOWN SPOUT	PSL	PARALLEL STRAND LUMBER
DW	DISHWASHER	PTDF	PRESSURE TREATED
DWG(S)	DRAWING (S)	DOUGLAS FIR	DOUGLAS FIR
(E)	EXISTING	PL	PLATE (S)
E	EAST	POE	POINT OF ENTRY
EN	EDGE NAILING	RA	RETURN AIR
EA	EACH	RAD	RADIUS
ELEV	ELEVATION	RCP	REFLECTED CEILING PLAN
EQ	EQUAL	RD	ROOF DRAIN
EQUIP	EQUIPMENT	REF	REFER (ANCE)
EQUIV	EQUIVALENT	REQ	REQUIRE (D) (S)
EB	EXPANSION BOLT	RM	ROOM
EW	EACH WAY	RR	ROOF RAFTER
EXP	EXPOSE (D)	SATC	SUSPENDED ACOUSTICAL TILE CEILING
EXT	EXTERIOR	SF	SQUARE FEET, FOOT (AGE)
FN	FIELD NAILING	SGL	SINGLE
FAB	FABRICAT (ED) (ION)	SHT	SHEET
FAR	FLOOR AREA RATIO	SHTG	SHEATHING
FCO	FLOOR CLEANOUT	SIM	SIMILAR
FD	FLOOR DRAIN	S	SOUTH
FG	FINISH GRADE	SA	SUPPLY AIR
FLASH	FLASHING	SQ	SQUARE
FIN	FINISH	STAG	STAGGER (ED)
FF	FINISH FLOOR	STL	STEEL
FJ	FLOOR JOIST	SSTL	STAINLESS STEEL
FL	FLOOR LINE	STD	STANDARD
FLF	FLOW LINE	STRUCT	STRUCTURAL, STRUCTURAL
FLR	FLOOR	DWGS	DRAWINGS
FLUOR	FLUORESCENT	TBD	TO BE DETERMINED
FOC	FACE OF CURB	THK	THICK, THICKNESS
FOW	FACE OF WALL	T&B	TOP AND BOTTOM
FS	FINISHED SURFACE	T&G	TONGUE AND GROOVE
FT	FOOT, FEET	T&P	TEMPERATURE AND PRESSURE
FTG	FOOTING	TO	TOP OF
FDN	FOUNDATION	TOC	TOP OF CONCRETE, TOP OF CURB
FN	FIELD NAILING	TOG	TOP OF GRADE
GA	GAUGE	TOP	TOP OF PAVING, TOP OF PLATE
GALV	GALVANIZE (D)	TOS	TOP OF SLAB
GC	GENERAL CONTRACTOR	TOR	TOP OF ROOF
GL	GLASS, GLAZING	TOW	TOP OF WALL
GLB	GLUED LAMINATED WOOD BEAM	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UGND	UNDERGROUND
GSM	GALVANIZED SHEET METAL	UNO	UNLESS NOTED OTHERWISE
GYP	GYPSPUM	VAR	VARIABLE, VARIATION
H&C	HOT AND COLD	VB	VAPOR BARRIER
HB	HOSE BIBB	VERT	VERTICAL
HDR	HEADER	W	WEST
HP	HORSEPOWER	WD	WOOD
HVAC	HEATING/VENTILATION/A/C	W/	WITH
HOR	HORIZONTAL	W/O	WITHOUT
HT	HEIGHT	WP	WATERPROOF (ING)
HW	HOT WATER	WRB	WEATHER RESISTIVE BARRIER
INCAND	INCANDESCENT	YD	YARD
INCL	INCLUDED (D) (ING)		
ID	INSIDE		
ID	DIAMETER/DIMENSION		
ID	INTERIOR DESIGN (ER)		

GENERAL PROJECT NOTES	
1.	ALL WORK SHALL CONFORM TO THE 2019 EDITION TITLE 24 CALIFORNIA CODE OF REGULATIONS (C.C.R.).
2.	THE DRAWINGS AND SPECIFICATIONS AND ALL COPIES THEREOF, ARE LEGAL INSTRUMENTS OF SERVICE FOR THE USE OF THE OWNER AND AUTHORIZED REPRESENTATIVE ON THE DESIGNATED PROPERTY ONLY. OTHER USE, WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE ARCHITECT, IS PROHIBITED. SPECIFICATIONS, DETAILS AND SCHEDULES WHICH MAY BE BOUND SEPARATELY, ARE PART OF THESE CONTRACT DOCUMENTS. DRAWINGS BY SEPARATELY CONTRACTED CONSULTING PROFESSIONALS (SUCH AS STRUCTURAL, INTERIORS OR LANDSCAPE) ARE SUPPLEMENTARY TO THE DESIGN DRAWINGS AND ARE PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF INFORMATION IS NOT SHOWN OR IS UNCLEAR. REPORT APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
3.	THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FOR ALL WORK.
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING THE WORK FOR ALL UTILITIES AND SERVICES.
5.	ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. QUESTIONS REGARDING THE SAME, OR THEIR EXACT MEANING, SHALL BE DIRECTED TO THE ARCHITECT.
6.	CODE REQUIREMENTS: ALL WORK TO COMPLY WITH DIVISION OF THE STATE ARCHITECT REGULATIONS AND CURRENT EDITION OF TITLE 24 CODE OF REGULATIONS.
7.	CONSTRUCTION IS TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CALIFORNIA ADMINISTRATIVE CODE, TITLE 24.
8.	EXISTING CONDITIONS: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS DESIGNATED AS, OR REQUIRED TO, INTERFACE WITH NEW CONSTRUCTION. REPORT ANY DISCREPANCIES, DEFICIENCIES, OR CONDITIONS INCOMPATIBLE WITH PROPOSED CONSTRUCTION PRIOR TO PROCEEDING.
9.	IT IS THE RESPONSIBILITY OF THE G.C. TO INSTALL ALL TEMPORARY BRACING AND SHORING TO ENSURE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETED FORM. DO NOT REMOVE EXISTING STRUCTURAL SUPPORTS OR BEARING WALLS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
10.	DIMENSIONS/ NOTES/ DETAILS: DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD, AND IMMEDIATELY REPORT ANY DISCREPANCIES OR EXISTING AND PROPOSED VARIATIONS TO THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS. ALL WRITTEN DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY GENERAL NOTES OR DETAILS. CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS SIMILAR CONDITIONS DETAILED AND/OR INDICATED ON THE DRAWINGS. ANY WORK INSTALLED IN CONFLICT WITH THE DESIGN DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
11.	ALL EXTERIOR DIMENSIONS ARE TO ASSUMED FACE OF PLYWOOD SHEATHING OR FACE OF MASONRY UNO. INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD FINISH OR CENTERLINE OF WALL UNO.
12.	ONLY APPROVED WORKING DRAWINGS, WITH THE STATEMENT "APPROVED DRAWINGS", ARE TO BE USED FOR CONSTRUCTION OF THIS PROJECT. CONTRACTORS USING OTHER THAN APPROVED DRAWINGS ARE SOLELY RESPONSIBLE FOR SUCH WORK.
13.	GEOTECHNICAL REPORTS ARE NOT INCLUDED IN THE CONTRACT DOCUMENTS, BUT MAY BE MADE AVAILABLE TO THE CONTRACTOR FOR INFORMATION ONLY. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ANY CONCLUSIONS THE CONTRACTOR MAY DRAW FROM SUCH INFORMATION. THE CONTRACTOR SHALL INVESTIGATE AND DETERMINE EXISTING SOILS AND SITE CONDITIONS UNDER WHICH CONTRACTOR WILL OPERATE IN PERFORMING THE WORK.
14.	THE CONTRACTOR IS TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF DEMOLITION AND CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL RESTRICT GENERAL PUBLIC ACCESS TO THE DEMOLITION, CONSTRUCTION, AND STORAGE AREAS.
15.	HAZARDOUS MATERIALS ARE NOT TO BE STORED IN THE BUILDING, NOR USED IN CONSTRUCTION, IN QUANTITIES EXCEEDING THOSE SPECIFIED IN THE CBC.
16.	DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXISTENCE AND PRECISE LOCATION OF UNDERGROUND PIPING AND OTHER STRUCTURES WHICH MAY BE AFFECTED BY CONSTRUCTION. PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY OWNING OR OPERATING ANY AFFECTED FACILITIES OR STRUCTURES, AND REQUEST ENGINEERING INFORMATION AND MARKING OF FACILITIES IN FIELD, PRIOR TO COMMENCING ANY WORK ON THE SITE. REMOVE ALL ITEMS SPECIFIED TO BE ABANDONED, AND TAKE CARE TO PREVENT ANY DAMAGE TO, OR DISRUPTION OF, ITEMS TO REMAIN.
17.	WHERE FIRE-RATED WALL OR CEILING ASSEMBLIES ARE PENETRATED BY RECESSED FIXTURES, MECHANICAL DUCTS, OR OTHER ITEMS, THE FIXTURES, DUCTS, OR OTHER ITEMS SHALL BE FIRE-RATED TO MATCH THE WALL OR CEILING ASSEMBLY.
18.	UNO. ALL EXTERIOR DOORS SHALL LIMIT AIR INFILTRATION WHEN IN CLOSED POSITION AS FOLLOWS: PROVIDE WEATHERSTRIPPING AT HEAD, SILL AND JAMBS. INSTALL ASTRAGAL AT MEETING PORTION OF DOUBLE DOORS. DOORS REQUIRING VERTICAL TRACKS OR GUIDES SHALL USE CONTINUOUS MOUNTING ANGLE AND SHALL BE SEALED TO LIMIT AIR LEAKAGE.
19.	CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BLOCKING, BACKING, HANGERS, BACK-UP PLATES, AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, FIXTURES, PARTITIONS, AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL, KITCHEN, ELECTRICAL OR MISCELLANEOUS EQUIPMENT AND FURNISHING.
20.	CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS, BASE STRUCTURES, ROOF OPENINGS, AS WELL AS POWER, WATER, DRAIN INSTALLATIONS AND STRUCTURAL STEEL SUPPORT LOCATIONS, WHEN APPLICABLE, WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR APPROVED SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
21.	ALL PIPES, CONDUIT, WIRES, AND DUCTS SHALL BE CONCEALED FROM VIEW UNO.
22.	ALL GLAZING INSTALLED IN HAZARDOUS LOCATIONS, AS DEFINED BY CBC CHAPTER 24, SHALL BE TEMPERED GLASS. SKYLIGHTS ARE TO BE TEMPERED GLASS OR FIBERGLASS AS SPECIFIED.
23.	INSTALL SEALANT AT JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, TO LIMIT AIR INFILTRATION.
24.	THE CONTRACTOR SHALL PROVIDE THE OWNER A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING, AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY. THE INSTRUCTIONS SHALL BE CONSISTENT WITH SPECIFICATIONS SET FORTH BY THE EXECUTIVE DIRECTOR OF THE STATE ENERGY COMMISSION. THE ENERGY "CERTIFICATION OF COMPLIANCE" SHALL BE SUBMITTED AFTER THE INSTALLATION OF THE REQUIRED EQUIPMENT AND/OR MATERIAL, AND PRIOR TO ANY REQUEST FOR A FINAL INSPECTION.
25.	ITEMS IN THESE DRAWINGS NOT SPECIFICALLY IDENTIFIED AS EXISTING ARE ASSUMED TO BE NEW
26.	ALL ASTM AND/OR ANSI DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATIONS.
27.	MATERIAL AND EQUIPMENT NECESSARY FOR WORK SHALL NOT BE PLACED OR STORED ON PUBLIC PROPERTY SO AS TO OBSTRUCT A FREE AND CONVENIENT APPROACH TO AND USE OF ANY FIRE HYDRANT, FIRE OR POLICE ALARM BOX, UTILITY BOX, CATCH BASIN OR MANHOLE OR SO AS TO INTERFERE WITH THE FREE FLOW OF WATER IN STREET OR ALLEY GUTTER. PROTECTION AGAINST DAMAGE SHALL BE PROVIDED TO SUCH UTILITY FIXTURES DURING THE PROGRESS OF THE WORK, BUT SIGHT OF THEM SHALL NOT BE OBSTRUCTED.
28.	WHERE NOT SPECIFICALLY DESCRIBED IN ANY OF THE NOTES OR SPECIFICATIONS, WORKMANSHIP SHALL CONFORM TO THE METHODS AND OPERATIONS OF BEST STANDARDS AND ACCEPTED PRACTICES OF THE RESPECTIVE TRADE.
29.	CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AND PLACED SO AS NOT TO ENDANGER THE PUBLIC, THE WORKERS OR ADJOINING PROPERTY FOR THE DURATION OF THE CONSTRUCTION PROJECT.
30.	REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING REMODELING, ALTERATIONS, REPAIRS OR ADDITIONS TO THE BUILDING UNLESS THE REQUIRED ELEMENTS OR DEVICES ARE BEING REMODELED, ALTERED, OR REPAIRED IN WHICH CASE ADEQUATE SUBSTITUTE PROVISIONS SHALL BE MADE.
31.	SERVICE UTILITY CONNECTIONS SHALL BE DISCONTINUED AND CAPPED IN ACCORDANCE WITH THE APPROVED RULES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
32.	SANITARY FACILITIES SHALL BE PROVIDED DURING CONSTRUCTION, REMODELING, OR DEMOLITION ACTIVITIES IN ACCORDANCE WITH 2019 CPC.
33.	AREAS OF CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NOT LESS THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER PER 2019 CPC.
34.	REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, DEMOLITION, REMODELING, ALTERATIONS, AND ADDITIONS TO BUILDING UNLESS APPROVED TEMPORARY MEANS OF EGRESS SYSTEMS AND FACILITIES HAVE BEEN PROVIDED.
35.	PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS AND HORIZONTAL ASSEMBLIES SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 714.4 AND 714.5.
36.	MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION.
37.	IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE DSA INSPECTION REQUIREMENTS LISTED IN NOTE 46.
38.	GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
39.	CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.
40.	ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA.
41.	ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE AND SMACNA GUIDELINES AS APPROVED BY DSA (CBC WILL GOVERN WHERE CONFLICTS OCCUR). THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
42.	SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 C.C.R., A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
43.	CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, T24 C.C.R.
44.	A DSA CERTIFIED INSPECTOR WITH CLASS 3 SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, T24, C.C.R. THREE PROJECT INSPECTOR IS TO BE CERTIFIED BY DSA TO INSPECT.
45.	A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
46.	ALL WORK (AS APPLICABLE) MUST MEET THE MANDATORY MEASURES OF THE 2019 CALIFORNIA GREEN BUILDING STANDARDS (CAL GREEN) CODE (TITLE 24, PART 11)
47.	THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2019 CBC CHAPTER 16A. ANCHORAGE DETAILS SHALL BE SHOWN ON THE PLANS.

DRAWING SHEET INDEX	
G-000	TITLE SHEET
A-101	SITE PLAN
A-102	ENLARGED SITE PLAN, ELEVATIONS & SECTIONS
A-103	SITE DETAILS
S1	GENERAL NOTES & DETAILS
S2	FOUNDATION PLAN & DETAILS
E100	DETAILS
E200	SITE ELECTRICAL PLAN
E201	PARTIAL SITE ELECTRICAL PLAN
E202	PARTIAL SITE ELECTRICAL PLAN
E300	SINGLE LINE DIAGRAMS EXISTING
E301	SINGLE LINE DIAGRAM PROPOSED
E400	MSB SHOP DRAWINGS
E500	ELECTRICAL DETAILS
TOTAL NO OF SHEETS: 14	



SPECIAL INSTRUCTIONS	
NONE	

BID ALTERNATES	
NONE	

DEFERED SUBMITTALS	
NONE	

GEOTECHNICAL REPORT	
NONE	

PROJECT SCOPE	
THE WORK INCLUDES THE CONSTRUCTION OF A NEW ELECTRICAL EQUIPMENT ENCLOSURE IN FRONT OF THE SCHOOL AND THE INSTALLATION OF A NEW TRANSFORMER AND SWITCHBOARD TO SERVE THE SCHOOL. TWO EXISTING ELECTRICAL METERS AND SWITCHBOARDS WILL REMAIN IN PLACE AND BE ENERGIZED FROM THE NEW SERVICE. THE ENCLOSURE WILL BE CONSTRUCTED WITH CONCRETE MASONRY UNITS AND CHAIN LINK FENCING. THE PROPOSED ENCLOSURE IS ADJACENT TO AN EXISTING BUILDING, SO SLOTTED WALL CONSTRUCTION IS SPECIFIED AND DETAILED.	

AGENCY APPROVAL:

HARTMANN ARCHITECTURE STUDIO

HARTMANNARCHITECTURESTUDIO.COM
430 S. CARRILLO RD.
OJAI, CALIFORNIA 93023
(805) 798-2253

CONSULTANTS:
STRUCTURAL ENGINEERING:
VINCI & ASSOCIATES
175 E. WILBUR RD. STE. 103
THOUSAND OAKS, CA 91360
(805) 496-2100
CONTACT: JAMES VINCI SE
EMAIL: jim@vincise.com

ELECTRICAL ENGINEERING:
FERRANTI ENGINEERING
1211 MARICOPA HWY. STE. #250
OJAI, CA 93023
(805) 705-4772
CONTACT: DALE FERRANTI, EE, LEED AP ID+C
EMAIL: daleferranti@live.com

SEALS:

PROJECT:
NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
OJAI UNIFIED SCHOOL DISTRICT
414 EAST OJAI AVENUE
OJAI, CA 93023
(805) 640-4300
CONTACT: ADAM DUTTER
EMAIL: adutter@ojaisud.org

PROJECT ADDRESS:
TOPA TOPA ELEMENTARY SCHOOL
916 MOUNTAIN VIEW AVENUE
OJAI, CA 93023

ISSUE:	MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
PROJECT NUMBER: 2020.011
PROJECT PHASE: 04CONDOC
DRAWN BY: MEH
REVIEWED BY: MEH

THE ORIGINAL SIZE OF THIS SHEET IS 36"X24". IF THE CURRENT SIZE IS OTHER THAN 36"X24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY.

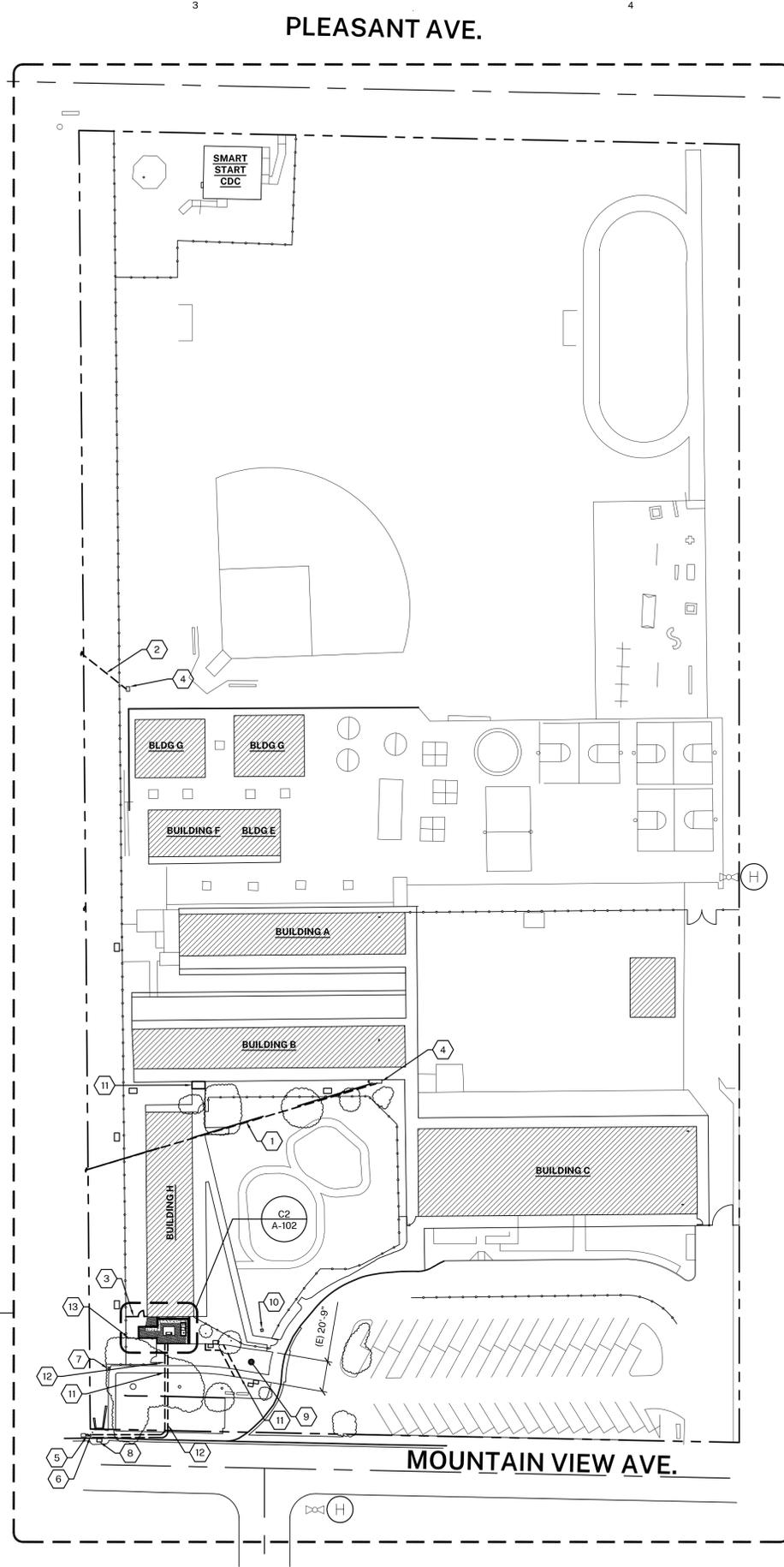
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
G-000

DATE: 03/31/2021

BLDG. NO.	BUILDING USE	OCC.	CONST. TYPE	EXIST. AFSS (Y/N)	PROP. AFSS (Y/N)	ALLOW. NO. STOR.	ALLOW. AREA (SF)	ALLOW. HT. (FT)	EXIST. NO. STOR.	EXIST. AREA (SF)	EXIST. HT. (FT)	DSA A# / APPR #
A	CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	APPR 15970, 03-107639
B	CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	APPR 15970, 03-107639
C	ADMIN & CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	APPR 22796, 03-107639
D	CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	APPR 49980
E	CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	APPR 52586
F	CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	APPR 55792
G	CLASSROOMS	E	VB	N	N	1	9,500	40	1	-	-	03-103364
H	KINDERGARTEN	E	VB	N	N	1	9,500	40	1	-	-	03-106187
	SMART START CDC	E	VB	N	N	1	9,500	40	1	-	-	03-107067

DSA CERTIFICATION STATUS: THERE ARE NO UNCERTIFIED PROJECTS AT THIS CAMPUS.



(A1) SITE PLAN
1"=50'-0"

GENERAL NOTES

- ALL TREES TO REMAIN, PROTECT IN PLACE.
- MAINTAIN ACCESS TO ALL EXISTING PARKING LOTS DURING CONSTRUCTION.
- MAINTAIN AN ACCESSIBLE PEDESTRIAN PATH OF TRAVEL DURING CONSTRUCTION.
- MAINTAIN ACCESS TO ALL EXISTING BUILDINGS DURING CONSTRUCTION.

SYMBOL LEGEND

--- PROPERTY LINE

(E) FIRE HYDRANT

SHEET KEYNOTES

- (E) UNDERGROUND POWER LINES, SEE ELECTRICAL DRAWINGS
- (E) OVERHEAD POWER LINE, SEE ELECTRICAL DRAWINGS
- (E) CHAIN LINK FENCE AND ACCESS GATE, REMOVE
- (E) SWITCHBOARD AND DISTRIBUTION BOARD, SEE ELECTRICAL DRAWINGS
- (E) UTILITY POLE, SEE ELECTRICAL DRAWINGS
- (E) WATER METER, TO REMAIN, PROTECT IN PLACE
- (E) GAS METER, TO REMAIN, PROTECT IN PLACE
- (E) STORM DRAIN, TO REMAIN, PROTECT IN PLACE
- (E) ASPHALT CONCRETE FIRE APPARATUS ACCESS ROAD, TO REMAIN, CUT/PATCH AS REQUIRED TO CARRY OUT WORK, REFERENCE DSA A# 03-106187
- (E) STORM DRAIN INLET, TO REMAIN, PROTECT IN PLACE
- (E) CONCRETE SIDEWALK, REMOVE AS REQUIRED FOR WORK AND REPLACE, SEE A/A-103, REMOVE AND REPLACE ENTIRE PANELS OF WALK, FINISH EDGES TO BE FLUSH WITH ADJACENT SURFACES
- (E) ASPHALT CONCRETE PAVING, REMOVE AS REQUIRED FOR WORK AND REPLACE, FINISH EDGES TO BE FLUSH WITH ADJACENT SURFACES
- (E) BIKE RACK AREA, TO REMAIN, REMOVE AND REINSTALL FENCING, RACKS, ETC. AS NEEDED TO COMPLETE WORK

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FERRANTI ENGINEERING
1211 MARICOPA HWY. STE. #250
OJAI, CA 93023
(805) 705-4772
CONTACT: DALE FERRANTI, EE, LEED AP ID+C
EMAIL: daleferranti@live.com

SEALS:

Preliminary
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PROJECT:
NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
OJAI UNIFIED SCHOOL DISTRICT
414 EAST OJAI AVENUE
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CONTACT: ADAM DUTTER
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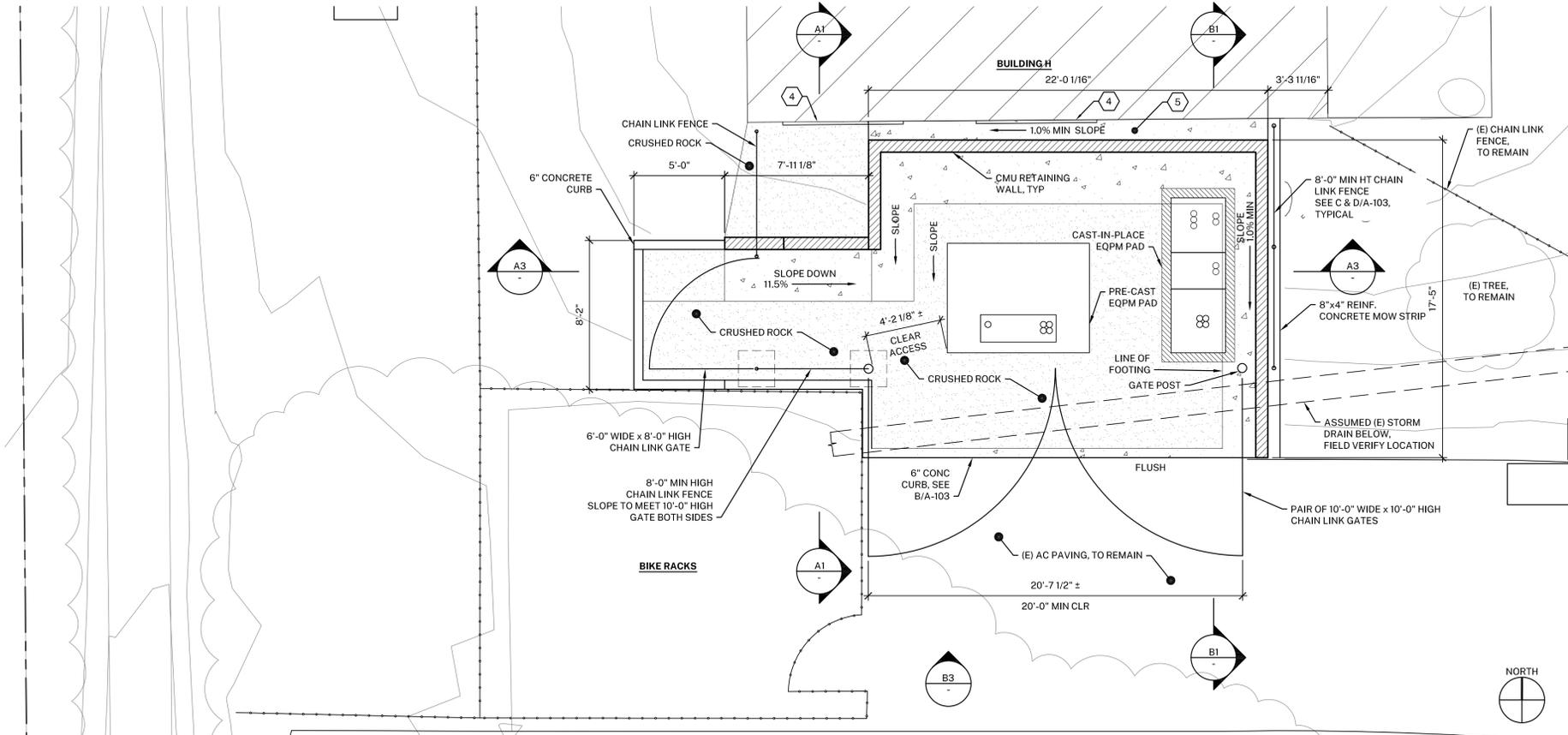
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SHEET TITLE:
SITE PLAN

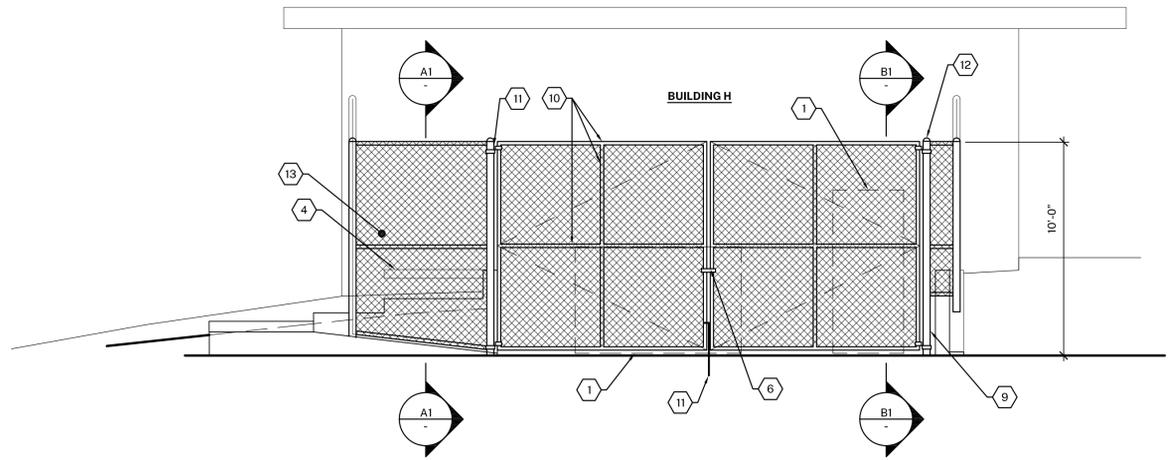
SHEET NUMBER:
A-101

DATE: 03/31/2021

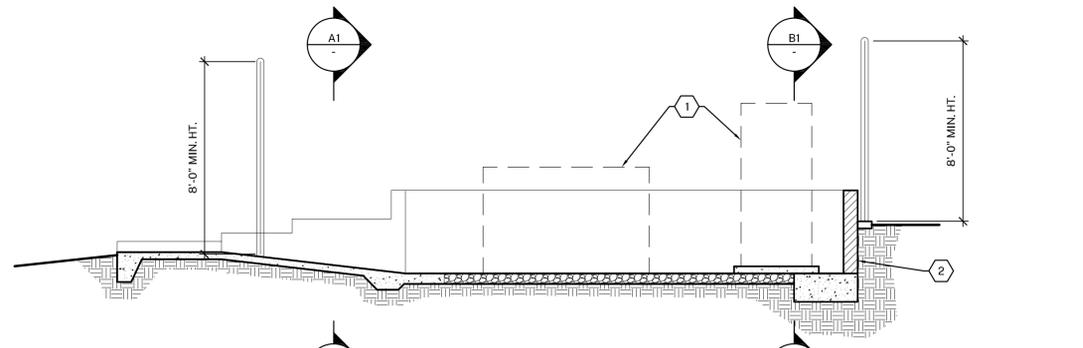
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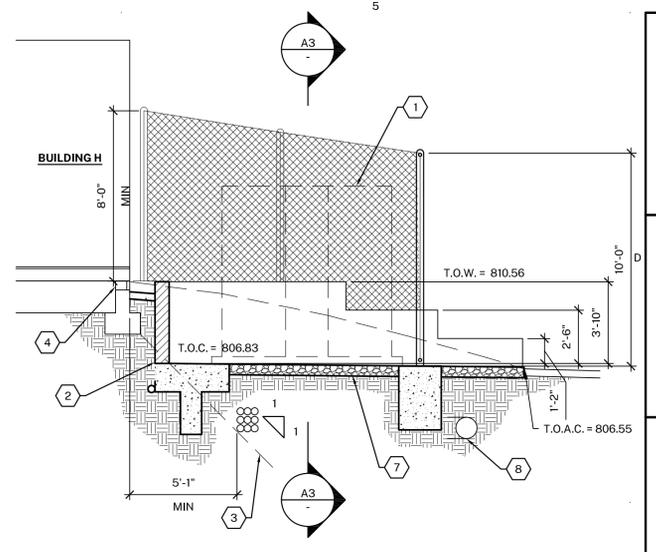
C2 ENLARGED SITE PLAN
1/4"=1'-0"



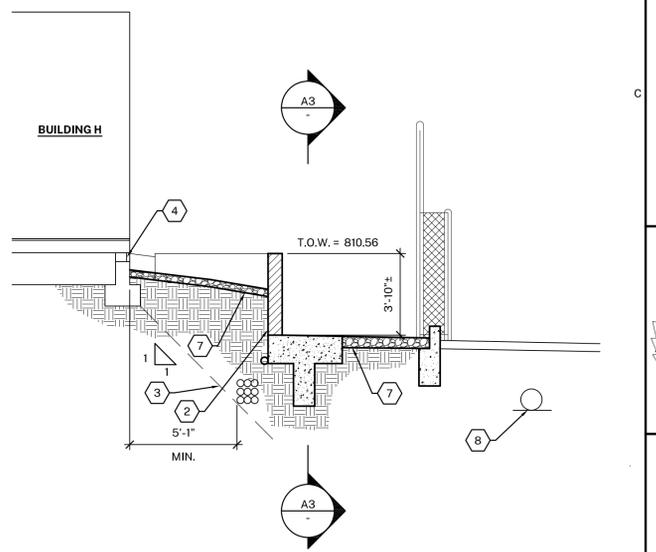
B3 PROPOSED SOUTH ELEVATION
1/4"=1'-0"



A3 SECTION
1/4"=1'-0"



B1 SECTION
1/4"=1'-0"



A1 SECTION
1/4"=1'-0"

GENERAL NOTES

- CAREFULLY CUT AND CAP EXISTING IRRIGATION SYSTEM SO AS TO NOT DISRUPT DISTRICT IRRIGATION SCHEDULE. REPAIR ANY IRRIGATION SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT NO EXPENSE TO THE DISTRICT.
- REPLACE/REPAIR (E) TURF AROUND ENCLOSURE.

SHEET KEYNOTES

- ELECTRICAL EQUIPMENT SHOWN AS DASHED LINE FOR CLARITY
- WATERPROOFING, SEE F/A-103
- ASSUMED AREA OF INFLUENCE, VERIFY DEPTHS IN FIELD
- (E) UNDERFLOOR VENTILATION, TO REMAIN, PROTECT IN PLACE, SLOPE FINISHED SURFACE AWAY FROM BUILDING
- CONCRETE GUTTER, SEE E/A-103
- LATCH PROVIDE KNOX LOCK FOR VENTURA COUNTY FIRE DEPARTMENT ACCESS
- FILTER FABRIC/WEED BARRIER UNDER AREAS WITH CRUSHED ROCK
- ASSUMED (E) STORM DRAIN, TO REMAIN
- 4.00" DIA. GATE POST EA SIDE
- 1.90" DIA TUBE GATE FRAME, TYP
- DROP ROD
- DOME CAP, TYP
- 3/8" ANTI-CLIMB GREEN PLASTIC COATED WIRE MESH, TYP AROUND ENCLOSURE

AGENCY APPROVAL:

HARTMANNARCHITECTURESTUDIO.COM
430 S. CARRILLO RD.
OJAI, CALIFORNIA 93023
(805) 798-2253

CONSULTANTS:

STRUCTURAL ENGINEERING:
VINCI & ASSOCIATES
175 E. WILBUR RD. STE. 103
THOUSAND OAKS, CA 91360
(805) 496-2100
CONTACT: JAMES VINCI SE
EMAIL: jim@vincise.com

ELECTRICAL ENGINEERING:
FERRANTI ENGINEERING
1211 MARICOPA HWY. STE. #250
OJAI, CA 93023
(805) 705-4772
CONTACT: DALE FERRANTI, EE, LEED AP ID+C
EMAIL: daleferranti@live.com

SEALS:

Preliminary
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PROJECT:
NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
OJAI UNIFIED SCHOOL DISTRICT
414 EAST OJAI AVENUE
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OJAI, CA 93023

MARK	DATE	DESCRIPTION

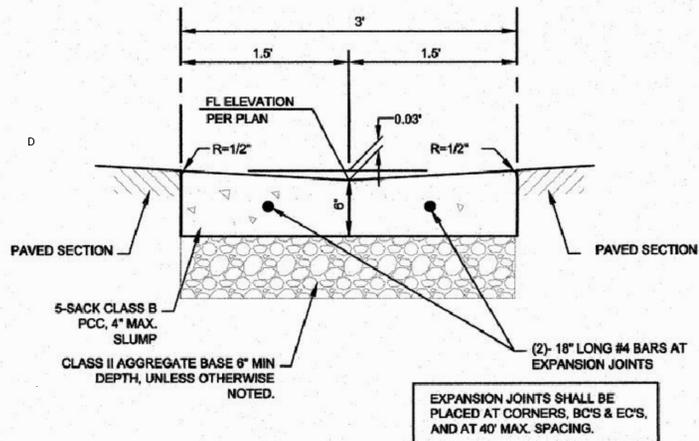
PROJECT INFORMATION:
PROJECT NUMBER: 2020.011
PROJECT PHASE: 04CONDOC
DRAWN BY: MEH
REVIEWED BY: MEH

SHEET TITLE:
ENLARGED SITE PLAN, ELEVATIONS & SECTIONS

SHEET NUMBER:
A-102

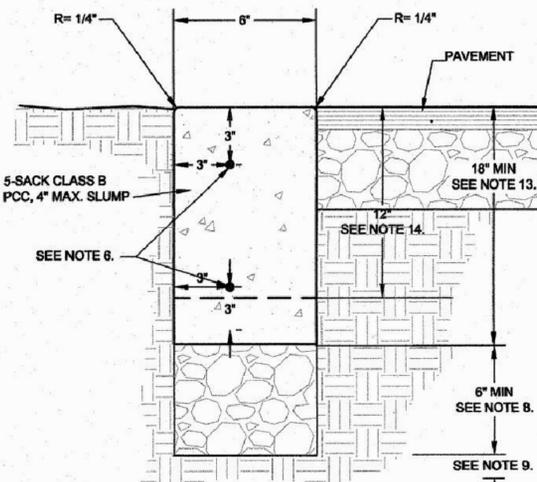
DATE: 03/31/2021

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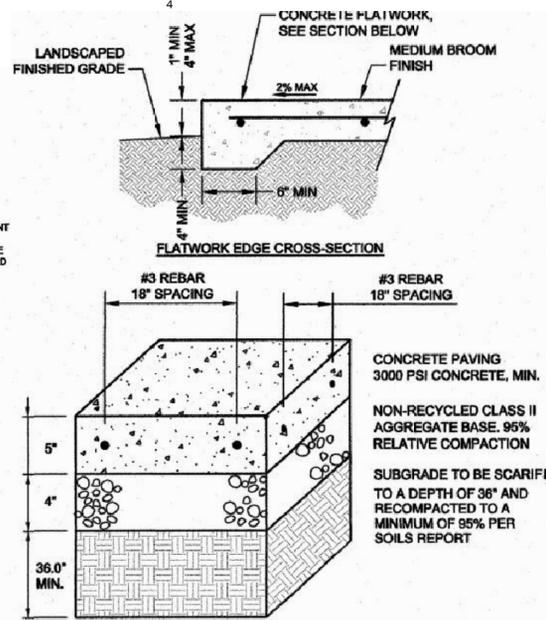
CONCRETE GUTTER DETAIL
SCALE = NONE

(E)



CONCRETE FLUSH CURB
SCALE = NONE

(B)

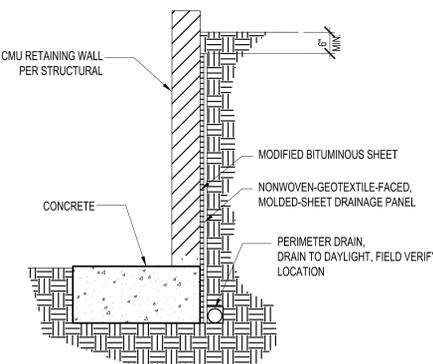


CONCRETE FLATWORK PEDESTRIAN
SCALE = NONE

(A)

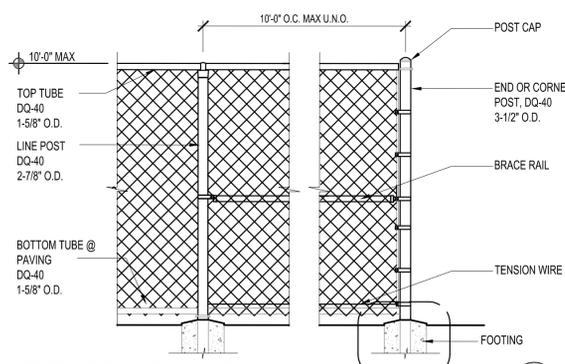
1. CONCRETE: 5 SACK P.C.C. CONCRETE, 2" MIN 4" MAX SLUMP.
2. FINISH: P.C.C. SHALL BE GIVEN A MEDIUM BROOM FINISH.
3. SEALING & CURING: A PIGMENTED SEALING AND CURING COMPOUND SHALL BE USED IN ACCORDANCE WITH THE PROVISIONS OF THE DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS.
4. EXPANSION JOINTS (EJ): SHALL BE PLACED AT CURB RETURNS, DRIVEWAYS, STORM DRAIN CATCH BASINS, AROUND UTILITY POLES, AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT TO EXCEED 30-FEET. THE INTERVALS BETWEEN EXPANSION JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE.
5. WEAKENED PLANE JOINTS (WPJ): SHALL BE A MINIMUM 1-INCH IN DEPTH AND PLACED AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT EXCEEDING 10-FEET BETWEEN EXPANSION JOINTS. THE INTERVALS BETWEEN WEAKENED PLANE JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE.
6. 1/2"Ø x 18" SMOOTH, GREASED DOWELS SHALL BE PLACED AT ALL EXPANSION JOINTS, TWO IN THE NEW CURB FACE, AND AT 18-INCHES ON CENTER IN NEW SIDEWALK.
7. WHEN PLACED IN SIDEWALKS, BOTH EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL EXTEND THROUGH THE ADJACENT CURB.
8. 6" MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION OR MATCH BASE THICKNESS REQUIREMENT FOR NEW OR EXISTING ROAD SECTION, WHICHEVER IS GREATEST.
9. SUBGRADE TO BE SCARIFIED TO A DEPTH OF 12" MINIMUM AND RECOMPACT TO 95% RELATIVE COMPACTION.
10. SUBGRADE AND AGGREGATE BASE COMPACTION REQUIREMENTS SHALL EXTEND TO THE BACK OF CURB OR TO THE BACK OF ATTACHED SIDEWALK (WHICHEVER CONDITION IS APPLICABLE).
11. GUTTER CROSS SLOPE SHALL NOT EXCEED 5% ACROSS CURB RAMPS, 2% ACROSS ADA PATH OF TRAVEL AND ADA PARKING, OTHERWISE TYPICAL GUTTER CROSS SLOPE SHALL BE 8% UNLESS OTHERWISE NOTED.
12. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN THE CURB & GUTTER.
13. WHEN CURB IS PLACED ADJACENT TO EXISTING OR FUTURE IRRIGATED LANDSCAPE AREA, PCC SHALL EXTEND DOWN AS SHOWN FOR MOISTURE BARRIER.
14. WHEN CURB IS NOT LOCATED AS IN NOTE 13. DEPTH MAY BE REDUCED.

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6. 1/2"Ø x 18" SMOOTH, GREASED DOWELS SHALL BE PLACED AT ALL EXPANSION JOINTS, AND AT 18-INCHES ON CENTER IN NEW SIDEWALK.
7. WHEN PLACED IN SIDEWALKS, BOTH EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL EXTEND THROUGH THE ADJACENT CURB AND GUTTER.
8. 4" MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION OR MATCH BASE THICKNESS REQUIREMENT FOR NEW OR EXISTING SIDEWALK, WHICHEVER IS GREATEST.
9. SUBGRADE TO BE SCARIFIED TO A DEPTH OF 36" MINIMUM AND RECOMPACTED TO 95% RELATIVE COMPACTION.
10. THE CROSS SLOPE OF THE SIDEWALK SHALL NOT EXCEED 2% (1/4-INCH PER 12-INCHES), 1.5% (3/16-INCH PER 12-INCHES) IS RECOMMENDED. LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
11. THE SIDEWALK SHALL BE WIDENED WHERE REQUIRED TO ALLOW FOR A MINIMUM 4-FOOT CLEAR PASSAGE AROUND ALL ABOVE GRADE OBSTACLES LOCATED WITHIN THE SIDEWALK.
12. TYPICAL SECTION SHALL BE:
 5-INCH MIN PCC (6-INCH OR 8-INCH WHEN WITHIN A DRIVEWAY), OVER
 4-INCH MIN CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION
 36" MIN SUBGRADE TO 95% RELATIVE COMPACTION
 IF THE R-VALUE OF THE NATIVE MATERIAL IS 55 OR GREATER THEN THE 4-INCH OF AGGREGATE BASE UNDER THE SIDEWALK ONLY MAY BE SUBSTITUTED WITH COMPACTED NATIVE MATERIAL.



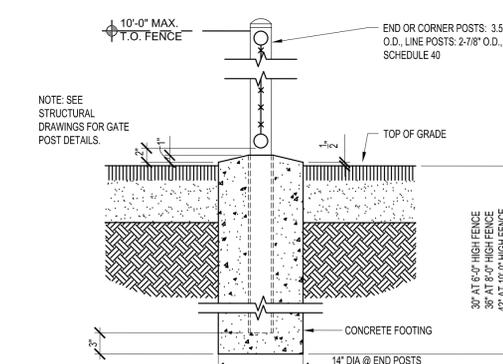
RETAINING WALL WATERPROOFING
SCALE: 1/2" = 1'-0"

(F)



TYPICAL CHAIN LINK FENCE
SCALE: 1/2" = 1'-0"

(D)



TYPICAL 10' HIGH MAX. CHAIN LINK FENCE FOOTING
SCALE: 1" = 1'-0"

(C)

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175 E. WILBUR RD. STE. 103
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SEALS:

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PROJECT:
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ISSUE:	MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
PROJECT NUMBER: 2020.011
PROJECT PHASE: 04CONDOC
DRAWN BY: MEH
REVIEWED BY: MEH

THE ORIGINAL SIZE OF THIS SHEET IS 36" X 24". IF THE CURRENT SIZE IS OTHER THAN 36" X 24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY.

SHEET TITLE:
SITE DETAILS

SHEET NUMBER:
A-103

DATE: 03/31/2021

GENERAL NOTES:

- GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS, PRIOR TO COMMENCING WORK.
- COORDINATE STRUCTURAL DETAILS & DIMENSIONS WITH RELATED REQUIREMENTS ON OTHER DRAWINGS.
- THE ARCHITECT WILL INTERPRET THE INTENT OF THE DOCUMENTS IN CASE OF A POSSIBLE CONFLICT OR DISCREPANCY BETWEEN STRUCTURAL AND OTHER DISCIPLINES.
- DETAILS NOTED AS "TYPICAL" OR "TYP" SHALL APPLY IN ALL CASES WHETHER OR NOT SPECIFICALLY REFERENCED.
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE (CBC).
- FOUNDATION DESIGN IS BASED UPON MINIMUM REQUIREMENTS OF CHAPTER 18 OF THE CALIFORNIA BUILDING CODE (CBC)
 - ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF
- MATERIAL REQUIREMENTS:
 - CONCRETE: $f'_c = 4000$ PSI AT 28 DAYS
SPECIAL INSPECTION REQUIRED EXEMPT FROM BATCH PLANT INSPECTION PER DSA 103 APPENDIX
 - CONCRETE BLOCK: ASTM C90 GRADE N-1 (NORMAL WEIGHT)
NO SPECIAL INSPECTION REQUIRED ($f'_m = 1500$ psi)
GROUT: $f'_c = 2,000$ psi, MORTAR: $f'_c = 1800$ psi
 - REINFORCING STEEL: ASTM A615, #4 & SMALLER - GRADE 40, #5 & LARGER - GRADE 60
TESTING OF REINFORCING BARS IS EXEMPT PER DSA 103 APPENDIX
 - MACHINE BOLTS: ASTM A307
 - ANCHOR BOLTS: ASTM A307
 - MECHANICAL ANCHORS: REFER TO 3/S1, TYPICAL
 - EPOXY ANCHORS: REFER TO 4/S1, TYPICAL
SPECIAL INSPECTION REQUIRED
A REPORT SHALL BE GIVEN TO THE BUILDING INSPECTOR AT FRAMING INSPECTION. REFER TO NOTE 10 ON 4/S1.
- STRUCTURAL DESIGN LOADS:
 - WALL LOADS: 8" SOLID GROUTED CMU = 84 PSF
 - SEISMIC DESIGN: OCCUPANCY CATEGORY = II
SEISMIC IMPORTANCE FACTOR = 1.0
 $S_{DS} = 1.82$
 $S_{M1} = 0.692$
 $S_{M2} = 1.21$
 $S_{M3} = 0.69$
SEISMIC DESIGN CATEGORY = E
 $F_p = 0.36W$
 $a_p = 1.0$, $R_p = 2.5$
ANALYSIS PROCEDURE = "EQUIVALENT LATERAL FORCE PROCEDURE"
- WIND DESIGN: BASIC WIND SPEED = 100 M.P.H.
WIND IMPORTANCE FACTOR = 1.0
WIND EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT = ± 0.18
DESIGN WIND PRESSURE = 21.54 PSF

FOUNDATION NOTES:

- ALL CONCRETE SHALL HAVE 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. **SPECIAL INSPECTION REQUIRED EXEMPT FROM BATCH PLANT INSPECTION PER DSA 103 APPENDIX**
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ASTM C33 AND BE NON-REACTIVE.
- CONCRETE COVERAGE OVER REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 - CONCRETE POURED DIRECTLY AGAINST EARTH..... 3"
 - ALL OTHER LOCATIONS..... 1 1/2"
- SOIL COMPACTION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT THE JOB SITE PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION.
- SOIL ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION.
- ALL REINFORCING STEEL SHALL COMPLY WITH MATERIAL REQUIREMENTS NOTED ABOVE. PLACING OF REINFORCING STEEL SHALL COMPLY WITH CHAPTER 19 OF THE CALIFORNIA BUILDING CODE.
- PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
 - THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
 - THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
 - THE FOUNDATION EXCAVATIONS, THE SOIL EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY CONFORM TO THE SOILS REPORT.
- NON-SHRINK GROUT, WHERE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE NON-METALLIC BURKE GROUT, OR EQUAL.
- SHALLOW FOUNDATION IS EXEMPT FROM SPECIAL INSPECTION AND TESTING BY GEOTECHNICAL ENGINEER PER DSA 103 APPENDIX.**

MASONRY NOTES:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SUPPORT OF ANY VERTICAL EARTH CUTS OVER 6'-0" IN HEIGHT.
- CONCRETE MASONRY UNITS SHALL NOT BE WETTED PRIOR TO PLACING GROUT.
- ALL CELLS BELOW BACKFILL AND ALL OTHER CELLS WHICH CONTAIN REINFORCEMENT TO BE FILLED W/ GROUT.
- REINFORCEMENT TO BE SPLICED 48 DIAMETERS (40 KSI STEEL), MINIMUM. REINFORCEMENT TO BE SPLICED 72 DIAMETERS (60 KSI STEEL), MINIMUM.
- REINFORCEMENT SHALL BE ACCURATELY SPLICED AND SECURED SO THAT IT WILL NOT BE DISPLACED. ALL CONCRETE SHALL BE PROPERLY CONSOLIDATED DURING PLACEMENT. ALL REINFORCING STEEL & EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. (TESTING OF REINFORCING EXEMPT PER DSA 103 APPENDIX)
- GROUT SHALL BE WELL RODDED TO INSURE A GOOD CONTACT WITH REINFORCEMENT AN TO ELIMINATE ROCK POCKETS AND VOIDS. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS FOR MIXING, PLACING, FINISHING, CURING AND PROTECTING CONCRETE DURING UNFAVORABLE WEATHER CONDITIONS.
- POUR LIFTS SHALL BE 6'-0" MAXIMUM WITHOUT SPECIAL INSPECTION.
- POUR ALL FOOTINGS AGAINST SOLID NATURAL UNDISTURBED EARTH OR COMPACTED FILL COMPACTED TO 90% RELATIVE DENSITY.
- USE 4" PERFORATED P.V.C. DRAIN OR OMIT HEAD-JOINTS AT 32"O.C. FOR DRAINAGE. P.V.C. PIPE MUST DRAIN DOWN SLOPE AND BE NO LONGER THAN 40 FEET WITHOUT SPECIAL DESIGN.
- BACKFILL WITH 6" WIDTH OF SAND OR CLEAN COURSE GRAVEL AND COVER WITH A 12" THICK COMPACTED FILL BLANKET AT THE SURFACE. BACKFILL SHALL NOT BE PLACED UNTIL SEVEN (7) DAYS AFTER GROUTING.
- ALL WALLS SHALL BE WATERPROOFED ON THE SOIL SIDE.
- GROUT STRENGTH SHALL BE EQUAL TO OR GREATER THAN CONCRETE STRENGTH.

STRUCTURAL OBSERVATION PROGRAM

THE OWNER SHALL EMPLOY THE ENGINEER REGISTERED/LICENSED IN THE STATE OF CALIFORNIA WHO IS RESPONSIBLE FOR THE STRUCTURAL DESIGN TO DO THE STRUCTURAL OBSERVATION.

PROJECT ENGINEERS: JAMES VINCI, S.E. S-4411

THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL OBSERVATION, THE CONTRACTOR, AND APPROPRIATE SUBCONTRACTORS SHALL HOLD A PRE-CONSTRUCTION MEETING TO REVIEW THE DETAILS OF THE STRUCTURAL SYSTEM TO BE STRUCTURALLY OBSERVED.

THE FOLLOWING ITEMS SHALL BE OBSERVED AT EACH PHASE OF CONSTRUCTION:

FOUNDATION: ANCHORS, HOLDDOWNS, STEEL PLACEMENT, FOOTING DIMENSIONS

CMU WALLS: WALL REINFORCING & PRIOR TO GROUT PLACEMENT

FINAL OBSERVATION: ALL STRUCTURAL ELEMENTS

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS AND SUBSEQUENT REPORTS SHALL BE REINFORCED IN CONFORMANCE WITH SECTION 1704 OF THE 2019 CBC AT THE OWNERS EXPENSE.
- ALL SPECIAL INSPECTIONS SHALL BE MADE BY AN INDEPENDENT INSPECTION AGENCY SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, AND SHALL BE PAID BY THE OWNER.
- THE FOLLOWING WORK SHALL BE PERFORMED UNDER CONTINUOUS DEPUTY INSPECTION IN THE PRESENCE OF THE OWNER'S SPECIAL INSPECTOR.
 - PLACEMENT OF CONCRETE WITH $f'_c = 3,000$ PSI & GREATER. **EXEMPT FROM BATCH PLANT INSPECTION PER DSA 103 APPENDIX**
 - INSTALLATION OF EPOXY GROUTED DOWELS
 - FIELD WELDING OF STRUCTURAL STEEL.
- THE FOLLOWING WORK SHALL BE PERFORMED UNDER PERIODIC DEPUTY INSPECTION IN THE PRESENCE OF THE OWNER'S SPECIAL INSPECTOR.
 - SHEARWALL NAILING WHERE FASTENER SPACING IS 4"O.C. OR LESS.
 - ROOF AND FLOOR DIAPHRAGM NAILING WHERE FASTENER SPACING IS 4"O.C. OR LESS.
 - DRAG STRUT AND HOLDDOWN CONNECTIONS.
- SPECIAL INSPECTION & PROFESSIONAL OBSERVATION REPORTS SHALL BE SUBMITTED TO THE OWNER, ENGINEER, AND DEPARTMENT OF BUILDING & SAFETY NO LATER THAN SEVEN (7) WORKING DAYS FROM THE DATE OF INSPECTION/OBSERVATION.

DRILLED EXPANSION TYPE ANCHOR BOLTS SHALL BE USED ONLY WHERE DETAILED OR FOR ATTACHMENT OF MECH. ELEC. OR MISC. ACCESSORIES OR EQUIPMENT TO THE STRUCTURE.

ACCEPTABLE WEDGE ANCHORS:

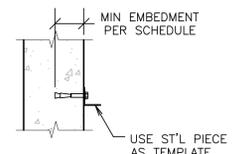
- HILTI-KWIK-BOLT-TZ (ICC ESR-1917, LARR 25701) IN NORMAL WT CONC.
- ITW RAMSET/REDHEAD TRUBOLT+ (ICC ESR-2427, LARR 2748) IN NORMAL WT CONC.
- SIMPSON STRONG-BOLT 2 (ICC ESR-3037, LARR 25891) IN NORMAL WT CONC.
- SIMPSON WEDGE-ALL (ICC ESR 1396, LARR 24682) IN MASONRY ONLY.
- DEWALT POWER-STUD+SD2 (ESR 2502, LARR 25831) IN NORMAL WT CONC.
- DEWALT POWER-STUD+SD1 (ESR 2818, LARR 25864) IN CMU

ACCEPTABLE SCREW ANCHORS:

- SIMPSON TITEN HD SCREW ANCHOR (ICC ESR-2713, LARR 25741) IN NORMAL WT CONC.
- SIMPSON TITEN HD SCREW ANCHOR (ICC ESR-1056, LARR 25560) IN CMU
- DEWALT SCREW-BOLT+ (ICC ESR-3889) IN CONCRETE
- DEWALT SCREW-BOLT+ (ICC ESR-4042) IN CMU

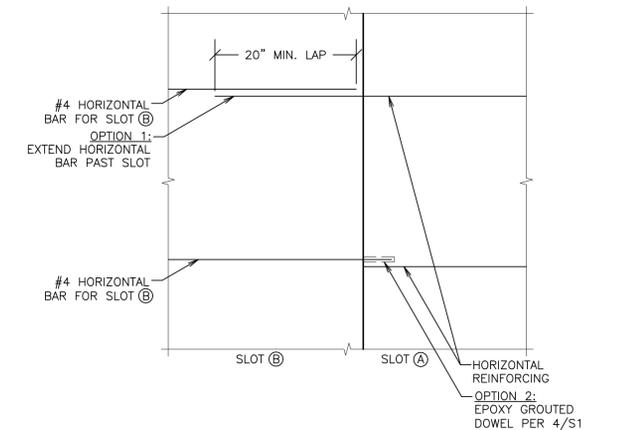
DRILLED BOLT SCHEDULE				
BOLT DIAMETER	3"	4"	4"	5"
MIN. EMBEDMENT	3"	4"	4"	5"
DIRECT-PULL TENSION (FT.LBS)	1100	2000	2300	3700
TORQUE WRENCH (FT.LBS)	25	50	80	50

SPECIAL INSPECTION NOT REQUIRED. EXEMPT PER DSA 103 APPENDIX.

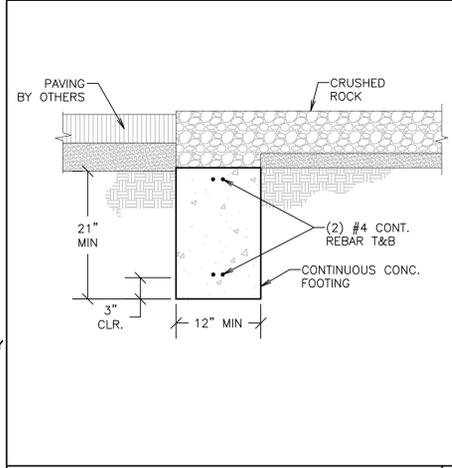


TYPICAL MECHANICAL ANCHORS

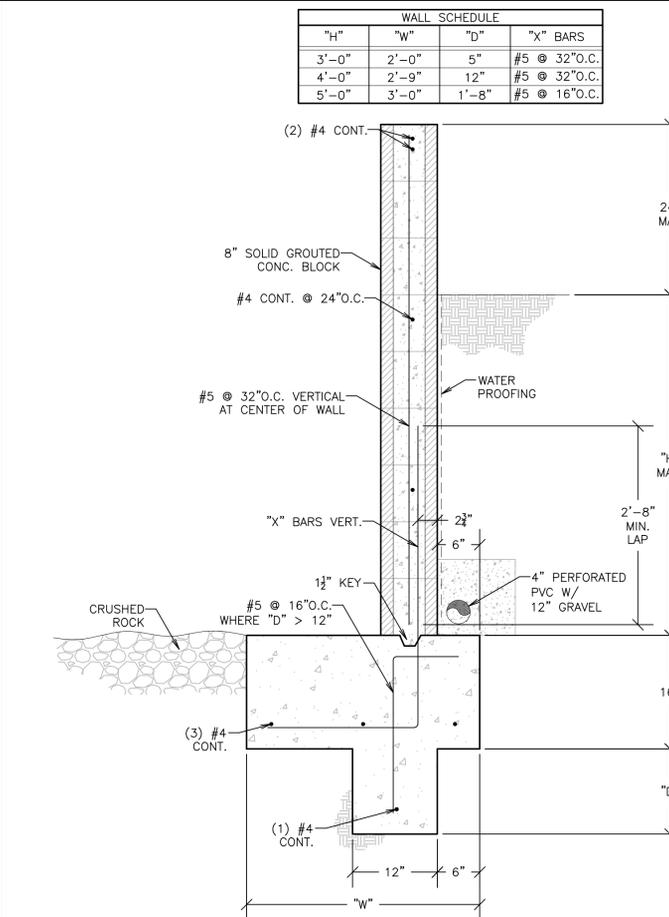
TYPICAL EPOXY GROUTED DOWELS / ANCHORS



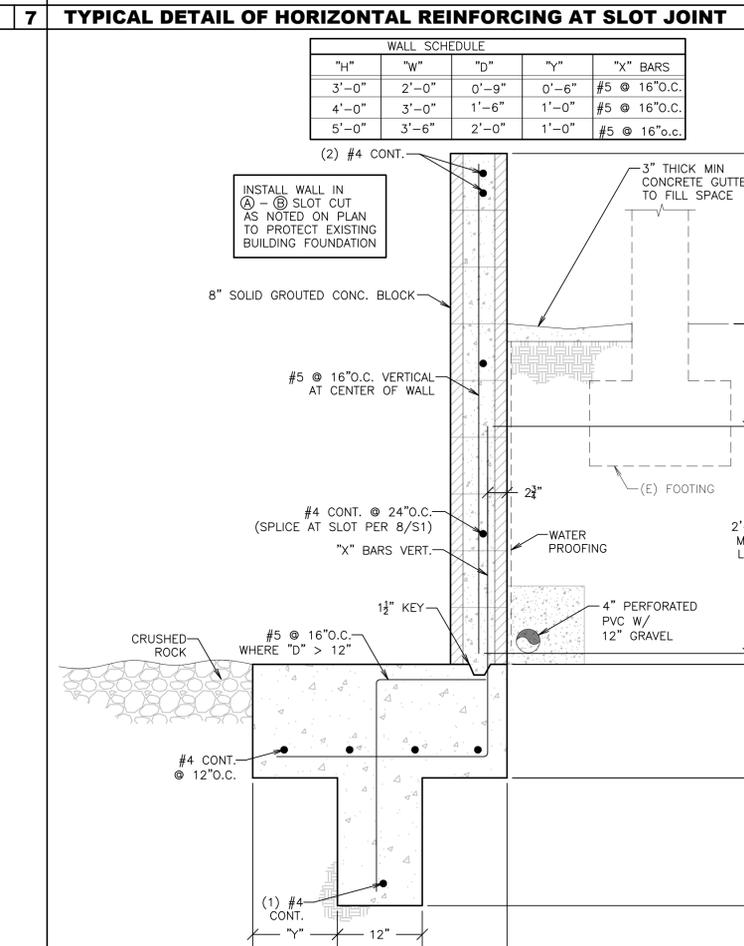
SECTION AT PERIMETER FOOTING



SECTION AT PERIMETER FOOTING



RETAINING WALL AT SIDE OF EQUIPMENT SLAB



RETAINING WALL AT REAR OF EQUIPMENT SLAB

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Preliminary

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Apr 19, 2021

PROJECT:

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MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
V&A PROJECT NUMBER: 21-6018
PROJECT PHASE: 04CONDOC
DRAWN BY: JWB
REVIEWED BY: JRV

GENERAL NOTES & DETAILS

SHEET NUMBER:
S1

DATE: 04.19.2021

GENERAL NOTES

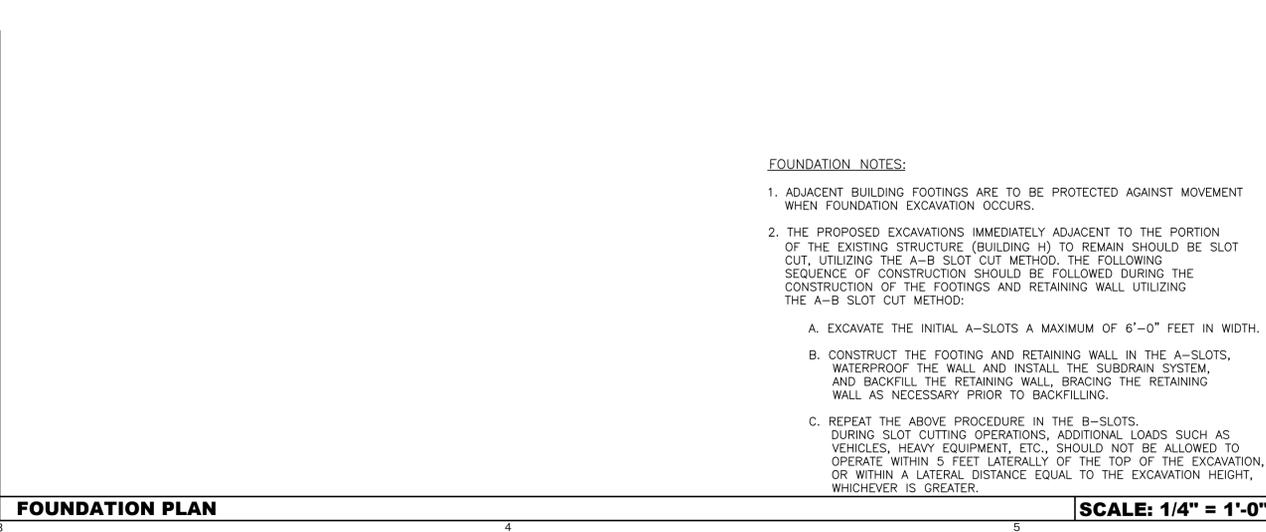
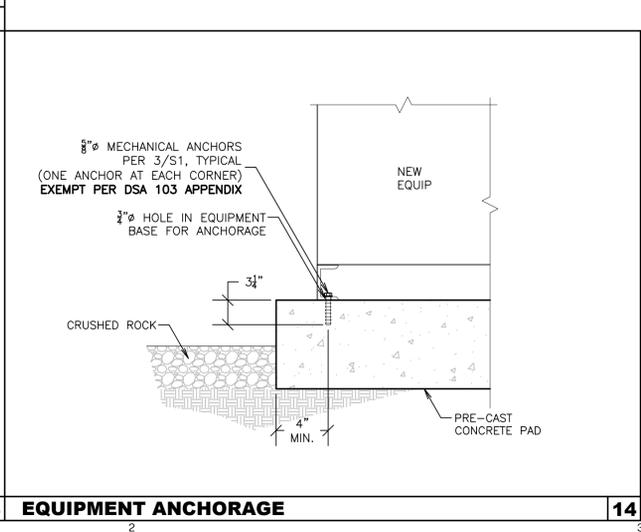
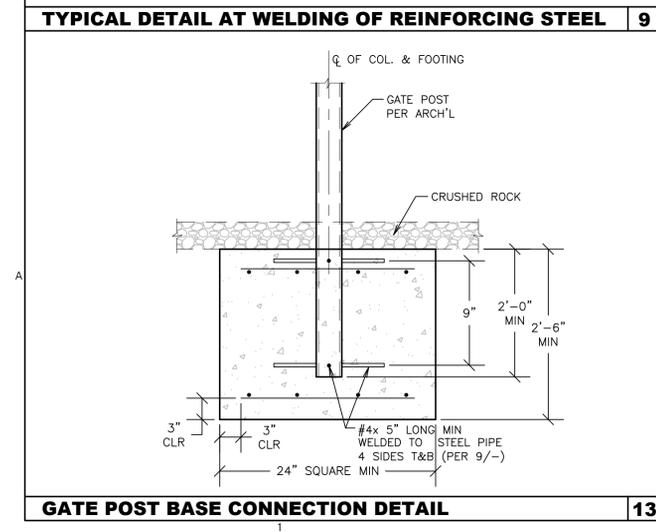
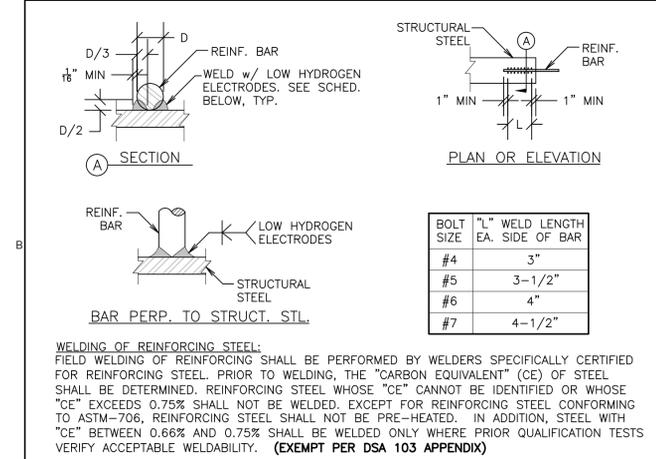
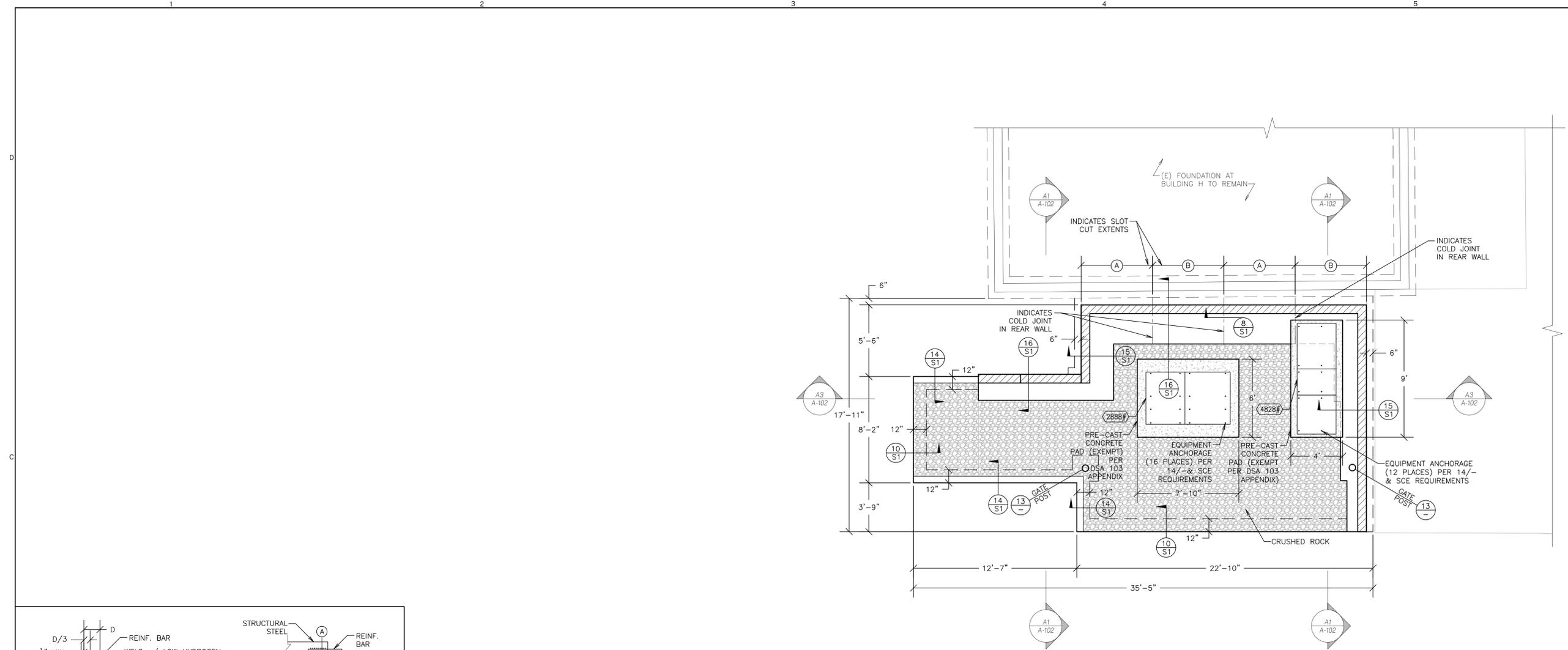
SECTION AT PERIMETER FOOTING

RETAINING WALL AT SIDE OF EQUIPMENT SLAB

RETAINING WALL AT REAR OF EQUIPMENT SLAB

GENERAL NOTES & DETAILS

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AGENCY APPROVAL:

HARTMANNARCHITECTURESTUDIO.COM
430 S. CARRILLO RD.
OJAI, CALIFORNIA 93023
(805) 798-2253

CONSULTANTS:

STRUCTURAL ENGINEERING:
VINCI & ASSOCIATES
175 E. WILBUR RD. STE. 103
THOUSAND OAKS, CA 91360
(805) 496-2100
CONTACT: JAMES VINCI SE
EMAIL: jim@vincise.com

ELECTRICAL ENGINEERING:
FERRANTI ENGINEERING
1211 MARICOPA HWY. STE. #250
OJAI, CA 93023
(805) 705-4772
CONTACT: DALE FERRANTI, EE, LEED AP ID+C
EMAIL: daleferranti@ive.com

SEALS:

04/26/2021 2:33:36 PM
Apr 19, 2021

PROJECT:
NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
OJAI UNIFIED SCHOOL DISTRICT
414 EAST OJAI AVENUE
OJAI, CA 93023
(805) 640-4300
CONTACT: ADAM DUTTER
EMAIL: adutter@ojaiusd.org

PROJECT ADDRESS:
TOPA TOPA ELEMENTARY SCHOOL
916 MOUNTAIN VIEW AVENUE
OJAI, CA 93023

MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
V&A PROJECT NUMBER: 21-6018
PROJECT PHASE: 04CONDOC
DRAWN BY: JWB
REVIEWED BY: JRV

THE ORIGINAL SIZE OF THIS SHEET IS 36"X48". IF THE CURRENT SIZE IS OTHER THAN 36"X48", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY.

SHEET TITLE:
FOUNDATION PLAN & DETAILS

SHEET NUMBER:
S2

DATE: 04.19.2021

ABBREVIATIONS

OR AMP	AMPERES	MCC	MOTOR CONTROL CENTER
ALTERNATING CURRENT	AC	MCM	THOUSAND CIRCULAR MILS
AMP FRAME/AMP FUSE	AF	MCP	MOTOR CIRCUIT PROTECTOR
AVAILABLE FAULT CURRENT	AVFC	MEC	MEDIUM VOLTAGE
ARCHITECTURE	ARCH	MFR	MANUFACTURER
ABOVE FINISHED FLOOR	ABFF	MG	MOTOR-GENERATOR
AMP SWITCH RATING	ASR	MC	MANICUL
AMP TRIP	AMP TRIP	MIN	MINIMUM
ABOVE FINISHED GRADE	ABFG	MIS	MISCELLANEOUS
AUTOMATIC	AUTO	MTD	MOUNTED
AUTOMATIC WIRE GAUGE	AWG	MTD	MOUNTING
AUTOMATIC TRANSFER SWITCH	ATS	MTR	MOTOR
BEARD	BEARD	NEW	NEW
BREAKER	BKR	NO	NORMALLY CLOSED
BUILDING	BLDG	NEC	NATIONAL ELECTRICAL CODE
CONDUIT	COND	NEF	NON FUSED
CIRCUIT BREAKER	CB	NIC	NOT IN CONTRACT
CALIFORNIA BUILDING CODE	CB	NO	NORMALLY OPEN
CIRCUIT	CIR	NON AUTO	NON AUTOMATIC
CIRCUIT	CIR	N.S.	NOT TO SCALE
CONDUIT ONLY	CO	PH	PUBLIC ADDRESS
COMMUNICATION	COMM	PH OR	PHASE
CALIFORNIA ELECTRICAL CODE	CEC	PL	PRIMARY
CALIFORNIA FIRE CODE	CF	POL	POLYESTER
DIAMETER	DIAM	PVC	POLYVINYL CHLORIDE
DISCONNECT	DISC	REQ	REQUIRED
DO NOT SWITCH	DNWS	RMS	RIGID GALVANIZED STEEL CONDUIT
DRAWING	DWG	SCHED	SCHEDULE
FIRE ALARM CONTROL PANEL	FACP	SEC	SECONDARY
FULL LOAD AMPS	FLA	SP	SPECIFICATION
FRONT	FRONT	STD	STANDARD
GENERAL CONTRACTOR	GC	UNSW	UNSWITCHED
GROUND FAULT INTERRUPTER	GFI	TEL	TELEPHONE
GROUNDING	GRD	TR	TRANSFER
HIGH INTENSITY DISCHARGE	HID	TR	TRANSFER
HERTZ	HERTZ	UN	UNLESS OTHERWISE NOTED
INSULATED GROUND	IG	V	VOLTS
JUNCTION BOX	JB	VA	VOLT-AMPERE
KILOVOLT-AMPERE	KVA	VD	VOLTAGE DROP
KILOWATT	KW	W	WITH
LONG CONTINUOUS LOAD	LCL	W/	WEATHERPROOF
LIQUID TIGHT FLEXIBLE METAL CONDUIT	LTC	(X)	EXISTING
LIGHTS	LIGHTS	WF	WEATHERPROOF
MAGNET, MAGNETIC	MAG	3P	THREE POLE
MAXIMUM	MAX	AT	AT

U.L. STANDARD 486B TORQUING RECOMMENDATIONS

TIGHTENING TORQUE FOR SCREWS (a) TORQUE, POUND - INCHES

WIRE SIZE	SLOTTED HEAD NO. 10 AND LARGER (b)		HEXAGONAL HEAD/EXTERNAL DRIVE SOCKET WRENCH	
	TO 3/64	OVER 3/64	TO 1/4	OVER 1/4
18-10 AWG	20	35	20	35
8	25	40	25	40
6	35	45	35	45
4	45	55	45	55
3	50	60	50	60
2	55	65	55	65
1	60	70	60	70
1/2	65	75	65	75
3/8	70	80	70	80
3/16	75	85	75	85
1/8	80	90	80	90
5/16	90	100	90	100
3/8	100	110	100	110
1/2	110	120	110	120
5/8	120	130	120	130
3/4	130	140	130	140
7/8	140	150	140	150
1	150	160	150	160
1 1/8	160	170	160	170
1 1/4	170	180	170	180
1 1/2	180	190	180	190
1 3/4	190	200	190	200
2	200	210	200	210

CEC ART. 310 CONDUCTOR DERATING

NEC #310.15 (b)(2)(c) ADJUSTMENT FACTORS

CURRENT-CARRYING CONDUCTORS	PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY
7 THROUGH 9	75
10 THROUGH 20	80
21 THROUGH 30	85
31 THROUGH 40	90
41 AND ABOVE	95

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 4 INCHES (101 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTS 210, 215, 220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 392.11 SHALL APPLY.

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES (609mm).

EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT EXCEED FOUR.

CEC WIRE FILL TABLE 370-16

JUNCTION BOX DIMENSION, INCHES TRADE SIZE OR TYPE	MIN. CU. IN. CAP.	MAXIMUM NUMBER OF CONDUCTORS			
		No. 14	No. 12	No. 10	No. 8
4 x 1-1/4 ROUND OR OCTAGONAL	12.5	6	5	4	2
4 x 1-1/2 ROUND OR OCTAGONAL	15.5	7	6	5	3
4 x 2-1/8 ROUND OR OCTAGONAL	21.5	10	9	7	4
4 x 1-1/4 SQUARE	18.0	9	8	7	3
4 x 1-1/2 SQUARE	21.0	10	9	8	4
4 x 2-1/8 SQUARE	30.3	15	13	12	10
4-11/16 x 1-1/4 SQUARE	25.5	12	11	10	8
4-11/16 x 1-1/2 SQUARE	29.5	14	13	11	9
4-11/16 x 2-1/8 SQUARE	42.0	21	18	16	14
3 x 2 x 1-1/2 DEVICE	7.5	3	3	2	1
3 x 2 x 2 DEVICE	10.0	4	4	3	2
3 x 2 x 1/4 DEVICE	10.5	5	4	4	3
3 x 2 x 1/2 DEVICE	12.5	6	5	5	4
3 x 2 x 3/4 DEVICE	14.0	7	6	5	4
3 x 2 x 1-1/2 DEVICE	18.0	9	8	7	6
4 x 2-1/8 x 1-1/2 DEVICE	10.3	5	4	4	3
4 x 2-1/8 x 1-1/8 DEVICE	13.0	6	5	5	4
4 x 2-1/8 x 2-1/8 DEVICE	14.5	7	6	5	4
3-3/4 x 2 x 2-1/2 MASONRY BOX / GANG	14.0	7	6	5	4
3-3/4 x 2 x 2-1/2 MASONRY BOX / GANG	21.0	10	9	8	7
FS - MINIMUM INTERNAL DEPTH 1-3/4 SINGLE COVER / GANG	13.5	6	6	5	4
FD - MINIMUM INTERNAL DEPTH 1-3/4 SINGLE COVER / GANG	18.0	9	8	7	6
FS - MINIMUM INTERNAL DEPTH 1-3/4 MULTIPLE COVER / GANG	18.0	9	8	7	6
FD - MINIMUM INTERNAL DEPTH 2-3/8 MULTIPLE COVER / GANG	24.0	12	10	9	8

GENERAL ELECTRICAL NOTES

SCOPE: THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR'S RESPONSIBILITY UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

PERMITS AND CHARGES: OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

REGULATIONS AND CODES: PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND MANUFACTURER'S RECOMMENDATIONS.

VERIFYING EXISTING CONDITIONS: BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

COORDINATION: COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

SERVICE EXISTING: UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

AS BUILT: PROVIDE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

MARK PROJECT RECORD DOCUMENTS DAILY TO INDICATE ALL CHANGES MADE IN THE FIELD.

A) IN ADDITION TO GENERAL REQUIREMENTS OF PROJECT RECORD DRAWINGS, INDICATE ON DRAWINGS, CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SIZES, AND SETTINGS ON CIRCUIT BREAKERS, ALTERATIONS IN RACEWAY RUNS AND SIZES, CHANGES IN WIRE SIZES, CIRCUIT DESIGNATIONS, INSTALLATION DETAILS, ONE-LINE DIAGRAMS, CONTROL DIAGRAMS AND SCHEDULES.

USE GREEN TO INDICATE DELETIONS AND RED TO INDICATE ADDITIONS.

A) USE THE SAME SYMBOLS AND FOLLOW THE SAME DRAFTING PROCEDURES USED ON THE CONTRACT DRAWINGS.

LOCATE UNDERGROUND CONDUIT STUBBED-OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND FEEDER PULL BOX LOCATIONS USING BUILDING LINES BY INDICATING ON THE PROJECT RECORD DRAWINGS.

AT THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION, PROVIDE UNDERGROUND CONDUIT RECORD DOCUMENTS TO OWNER'S REPRESENTATIVE.

TWO COPIES, IN BINDER FORM, OF ALL TEST RESULTS AS REQUIRED BY THESE DOCUMENTS.

TWO COPIES OF LOCAL AND/OR STATE CODE ENFORCING AUTHORITIES FINAL INSPECTION CERTIFICATES.

TWO COPIES, IN BINDER FORM, OF ELECTRICAL EQUIPMENT OUT SHEETS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, WARRANTY CERTIFICATES, AND PRODUCT LITERATURE FOR ALL PRODUCTS UTILIZED ON PROJECT.

GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS/HER OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

MATERIAL AND INSTALLATION: ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.). ALL WIRING SHALL CONFORM TO THE LATEST EDITION OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

CONDUITS: CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH U.L. GROUNDED WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX, OR AC90 SHALL BE PERMITTED.

SWITCHES AND RECEPTACLES: PROVIDE 20 AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS, DEVICES SHALL BE DECORA TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNER'S REPRESENTATIVE.

FEEDERS AND BRANCH CIRCUITS IDENTIFICATION: IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET.

CONDUCTORS: DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. CONDUCTORS MUST BE MANUFACTURED WITHIN 6 MONTHS, PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

PANELBOARDS: DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTION TYPE. PANELBOARDS SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON BUT REMAINING AS LAST ACTIVE DEVICE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL -ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

STRUCTURAL SUPPORT: EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 3 BOLTS AND CONICAL WASHERS TORQUED TO 70LB.-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. BE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

DEMOLITION: NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

1. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE OWNER, AND NEATLY pile OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

2. ALL DEVICES, CIRCUIT CONDUCTORS, FEEDERS, ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECTS NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS "SPARE". COORDINATE ALL OUTAGES WITH OWNER'S REPRESENTATIVE.

EXECUTION: CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONTIGUOUS AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THE WORK UNDER THIS CONTRACT.

1.) EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

2.) DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC. IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES, AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

3.) ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

4.) EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

5.) ALL WORK SHOWN IS NEW UNLESS SPECIFICALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

TELEPHONE SYSTEMS: PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE SERVING TELEPHONE COMPANY REQUIREMENTS.

GROUNDING AND BONDING: FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED THROUGH IN ALL CONDUITS.

INSTALLATION: IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.

1.) PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH ALL CODES; NOTHING IN THESE DRAWINGS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

2.) DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH CIRCUIT HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

3.) FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, REGULATORS, SOLENOID VALVES, AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

4.) DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB, WHERE CONDUITS ARE GROUPED IN PARALLEL, SPACE THEM 3" OR MORE APART, WHERE CONDUITS CROSS EACH OTHER, THICKEN THE SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

5.) SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

6.) ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING, HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

ELECTRICAL SWITCHES, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.

9.) CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10.) SURFACE MOUNTED RACEWAY COMPLETENESS: CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES, PLATES ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. PRIOR TO INSTALLATION, CONTRACTOR SHALL PERFORM A PRE-INSTALLATION SURFACE MOUNTED RACEWAY JOB WALK WITH OWNER & ARCHITECT FOR CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF ANY & ALL SURFACE MOUNTED RACEWAYS.

ELECTRICAL SYSTEM ANCHORAGE: ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR SEISMICALLY ANCHORED BY THE CONTRACTOR TO RESIST SEISMIC FORCES ACTING IN ANY DIRECTION. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR SUPPORT OF ELECTRICAL RACEWAYS, CONDUITS, CABLE TRAYS, ELECTRICAL EQUIPMENT, ETC. IN ACCORDANCE WITH THE UNIFORM BUILDING CODE WITH CALIFORNIA AMENDMENTS.

THE SEISMIC BRACING AND ANCHORAGE SHALL BE PROVIDED PER THE LATEST EDITION OF THE SMACNA SEISMIC RESTRAINT GUIDELINES, OR CALIFORNIA BUILDING CODE-WHICHEVER IS MORE RESTRICTIVE.

ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES, WHERE BRACING DETAILS ARE NOT SHOWN ON THE PLANS, THE FIELD INSTALLATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEERS, AND THE ARCHITECT. A COPY OF LATEST SMACNA GUIDELINES SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.

APPLICABLE CODES AND REGULATIONS

CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24 (APPLIES AFTER JANUARY 1, 2020);

PART 1-CALIFORNIA BUILDINGS STANDARD ADMINISTRATIVE CODE 2019 EDITION

PART 2-CALIFORNIA BUILDING CODE 2019 EDITION

PART 3-CALIFORNIA ELECTRICAL CODE 2019 EDITION

PART 4-CALIFORNIA MECHANICAL CODE 2019 EDITION

PART 5-CALIFORNIA PLUMBING CODE 2019 EDITION

PART 6-CALIFORNIA ENERGY CODE 2019 EDITION

PART 9-CALIFORNIA FIRE CODE 2019 EDITION

PART 10-CALIFORNIA EXISTING BUILDING CODE 2019 EDITION

PART 11-CALIFORNIA GREEN BUILDING STANDARDS CODE 2019 EDITION

PART 12-CALIFORNIA REFERENCE STANDARDS CODE 2019 EDITION

NFPA 13-AUTOMATIC SPRINKLER SYSTEM (CA AMENDED) 2016 EDITION

NFPA 14-STANDPIPES SYSTEMS (CA AMENDED) 2016 EDITION

NFPA 17A-WET CHEMICAL SYSTEMS, 2017 EDITION

NFPA 20-STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 EDITION

NFPA 24-PRIVATE FIRE MAINS (CA AMENDED) 2016 EDITION

NFPA 72-NAT. FIRE ALARM & SIGNALING CODE (CALIFORNIA AMENDED) 2016 EDITION

NFPA 80-STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION

NFPA 2001-STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2015 EDITION

UL 300-STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)

UL 464-AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 EDITION

UL 521-STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION

UL 1971-STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2010)

ICC 300-STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

ELECTRICAL SYMBOL LIST

DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED
NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

ANNOTATIONS & CALLOUTS

- 1 ELECTRICAL KEYNOTE: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET.
- 82 INDICATES LIGHTING FIXTURE TAG NUMBER
- INDICATES WATTAGE OF LIGHT FIXTURE (FOUNDED ON LIGHT FIXTURE SCHEDULE)
- INDICATES MECHANICAL/PLUMBING EQUIPMENT OR DEVICE (FOUNDED ON ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT OR ON MECHANICAL PLANS).
- MECHANICAL/PLUMBING TAG NUMBER
- INDICATES DETAIL NUMBER
- INDICATES SHEET NUMBER TO FIND DETAIL
- BREAK LINE INDICATES WORK EXTENDED BEYOND LIMITS SHOWN ON DRAWING.

CONDUIT & WIRING SYMBOLS

- AD-1-3-5-7 INDICATES A HOMERUN TO PANEL AS, CKTS 1-3-5-7 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS
- CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND
- 3/4" - 2 #12 & 1 #12 CU GND
- 3/4" - 2 #12 & 1 #12 CU GND
- 3/4" - 3 #12 & 1 #12 CU GND
- 3/4" - 4 #12 & 1 #12 GND
- 3/4" - 5 #12 & 1 #12 GND
- 3/4" - 6 #12 & 1 #12 GND
- 3/4" - 2 #10 & 1 #10 GND
- 3/4" - 3 #10 & 1 #10 GND
- 3/4" - 4 #10 & 1 #10 GND
- 3/4" - 5 #10 & 1 #10 GND
- 3/4" - 6 #10 & 1 #10 GND
- CONDUIT STUB. CAP AND IDENTIFY FLEXIBLE CONDUIT CONNECTION. SEE PLAN.

LIGHTING FIXTURE SYMBOLS

- 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED)
- o & b, ETC. INDICATES SWITCH IDENTIFICATION
- NUMBER INDICATES LIGHTING BRANCH CIRCUIT
- 2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED)
- CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE WITH 4S OUTLET BOX (RECESSED, SURFACE MOUNTED)
- FLUORESCENT LIGHT FIXTURE WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK WITH 4S OUTLET BOX. (RECESSED, SURFACE MOUNTED)
- SURFACE MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE WITH 4S BOX
- CEILING SURFACE MOUNTED LIGHTING FIXTURE WITH OUTLET BOX
- CEILING RECESSED DOWNLIGHT FIXTURE
- CEILING RECESSED WALL WASH DOWNLIGHT FIXTURE
- TRACK LIGHTING (TRIANGLES INDICATE # OF HEADS)
- LIGHT FIXTURE, WALL MOUNTED WITH OUTLET BOX
- EXIT SIGN WITH OUTLET BOX
- ARROW DENOTES DIRECTIONAL CHEVRON
- EXIT SIGN, END MOUNT ON WALL, WITH OUTLET BOX.
- SHADING DENOTES FACE OF EXIT SIGN.
- EMERGENCY LIGHTING UNIT WITH OUTLET BOX.
- EXT-EMERGENCY LIGHTING UNIT COMBO WITH OUTLET BOX.
- PENDANT MOUNTED LIGHT FIXTURE WITH OUTLET BOX.

POWER

- PANELBOARD PER PLANS, FLUSH MOUNTED ON WALL @ +6'-6" TO TOP OF TRIM
- PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL @ +6'-6" TO TOP OF TRIM
- SINGLE RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON (GFI DENOTES GROUND FAULT INTERRUPTER RECEPTACLE)
- DUPLEX RECEPTACLE, WALL MOUNTED HORIZONTALLY @ +18" AFF, NEMA 5-20R UON
- DUPLEX TVSS RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON TOP RECEPTACLE SWITCHED
- CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R UON
- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON
- SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ +18", UON
- JUNCTION BOX (ACCESSIBLE CEILING SPACE MID) SIZE PER TABLE AND NEC ARTICLE 370
- JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- RECESSED FLUSH FLOORBOX, FLOOR MOUNTED. SEE POWER AND SIGNAL PLANS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE COVER FINISH/COLOR WITH ARCHITECT PRIOR TO ORDERING.
- THERMOSTAT OUTLET BOX. 4S BOX WITH SINGLE GANG RING @ +42" AFF

VOICE/DATA SYMBOL

- TELE/DATA OUTLET BOX IN WALL @ +18". STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING. 5S BOX WITH 1-GANG P-RING, UON
- TELE/DATA OUTLET BOX, MOUNTED IN WALL +6" ABOVE COUNTER OR SPLASH, STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING. 5S BOX WITH 1-GANG P-RING, UON
- FLUSH CEILING MOUNTED TELE/DATA OUTLET, 5S BOX WITH SINGLE GANG PLASTER RING, UON
- TELEVISION OUTLET IN WALL @ +84", 5S BOX WITH 1-GANG RING, UON

SWITCHES

- S SINGLE-POLE SWITCH MOUNTED @ +42" AFF
- S₀ SINGLE POLE SWITCH @ +42", UON
- S₁ INDICATES LIGHT FIXTURE TO BE SWITCHED
- S₂ TWO-POLE SWITCH MOUNTED @ +42" AFF
- S₃ 3-WAY SWITCH MOUNTED @ +42" AFF
- S₄ 4-WAY

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SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDIXES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS, FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
18. VERIFY AND PROVIDE ALL UTILITY SYSTEMS PER SERVING UTILITY STANDARD REQUIREMENTS.
19. CONTRACTOR SHALL PROVIDE VOLTAGE SURGE ARRESTER PER NFPA 20, ARTICLE 10.4.1 REQUIREMENTS.
20. CONTRACTOR SHALL PROVIDE CONCRETE ENCASUREMENT AT ALL VERIZON COMPANY CONDUIT BENDS PER VERIZON COMPANY REQUIREMENTS.

AGENCY APPROVAL:



HARTMANNARCHITECTURESTUDIO.COM
 430 S. CARRILLO RD.
 OJAI, CALIFORNIA 93023
 (805) 798-2253

CONSULTANTS:

FERRANTI ENGINEERING
 CONSULTING
 ELECTRICAL ENGINEERS
 1211 MARICOPA HWY,
 SUITE 250
 OJAI, CA 93023
 (805) 705-4772
 DALEFERRANTI@LIVE.COM

SEALS:



PROJECT:

**NEW ELECTRICAL SERVICE
 & SITE IMPROVEMENTS**

OWNER:

OJAI UNIFIED SCHOOL DISTRICT
 414 EAST OJAI AVENUE
 OJAI, CA 93023
 (805) 640-4300
 CONTACT: ADAM DUTTER
 EMAIL: adutter@ojaiusd.org

PROJECT ADDRESS:

TOPA TOPA ELEMENTARY SCHOOL
 916 MOUNTAIN VIEW AVENUE
 OJAI, CA 93023

ISSUE:

MARK	DATE	DESCRIPTION

PROJECT INFORMATION:

PROJECT NUMBER: 2020.011
 PROJECT PHASE: 04CONDOC
 DRAWN BY: D.F.
 REVIEWED BY: D.F.

THE ORIGINAL SIZE OF THIS SHEET IS 36"X24". IF THE CURRENT SIZE IS OTHER THAN 36"X24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY.

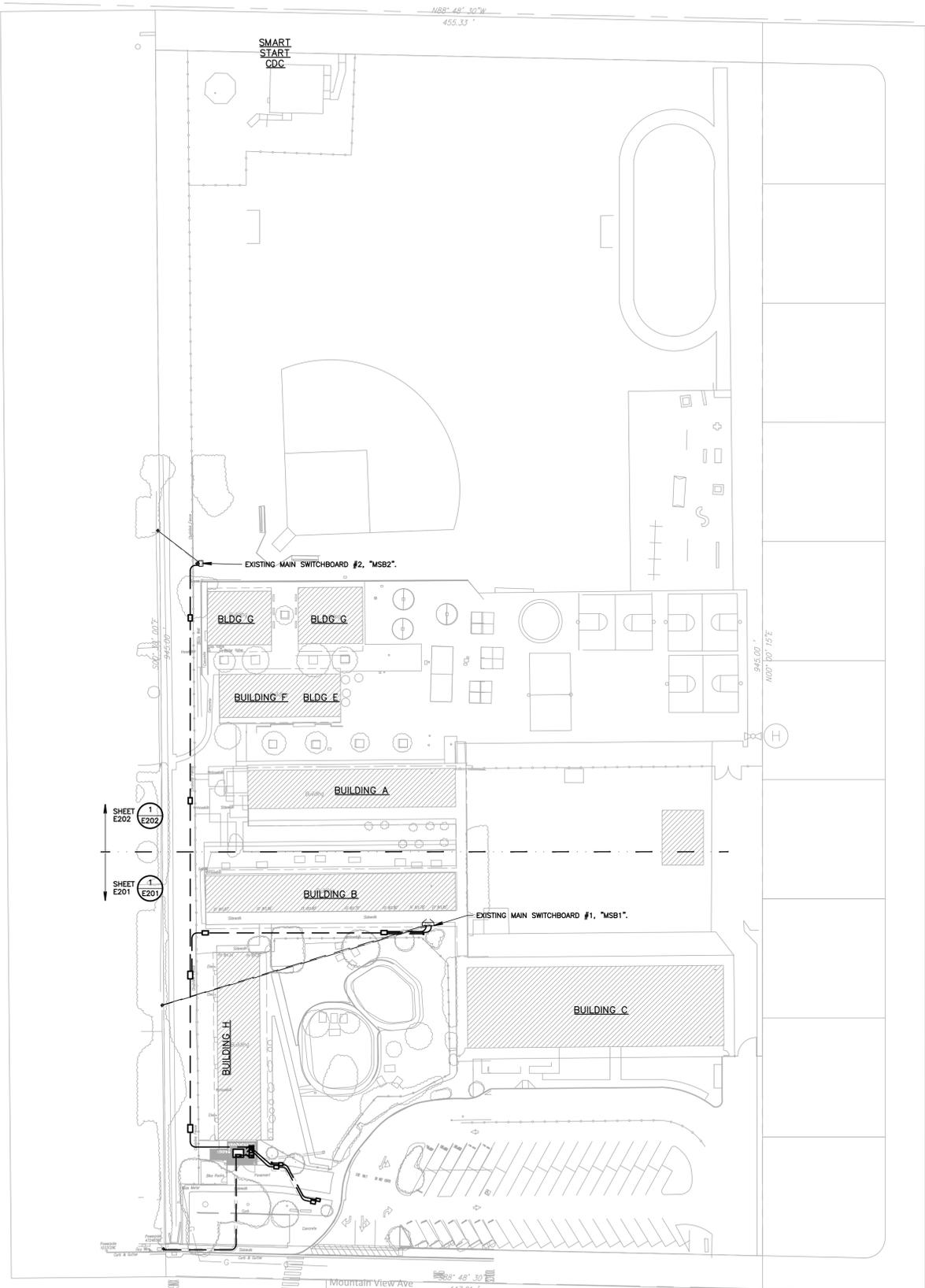
SHEET TITLE:

**SITE
 ELECTRICAL
 PLAN**

SHEET NUMBER:

E200

DATE:
 03/31/2021



1 SITE ELECTRICAL PLAN
 SCALE: 1"=50'-0"



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KEY NOTES

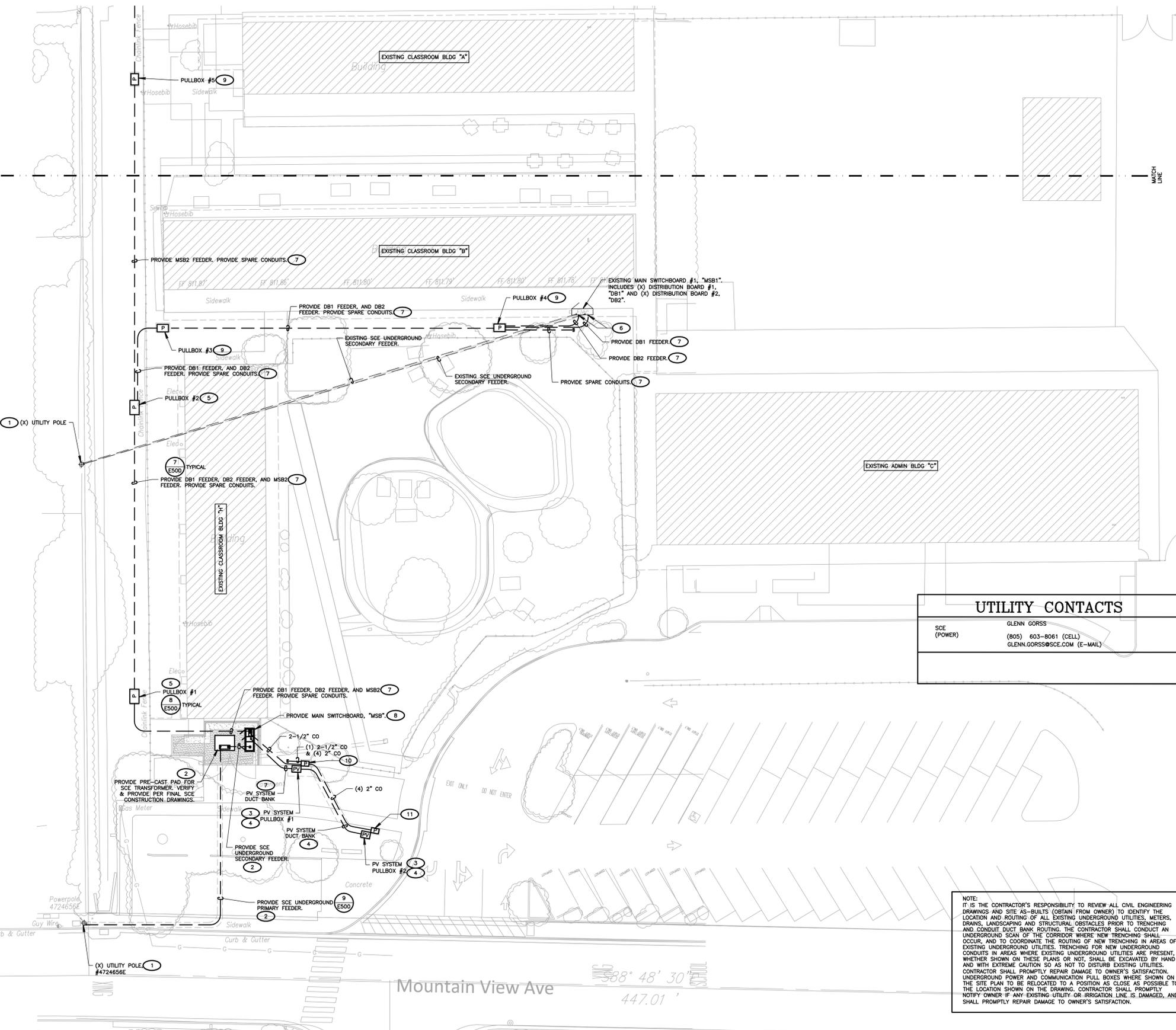
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- PROTECT IN PLACE.
- ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL SCE COMPANY CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER SCE COMPANY REQUIREMENTS.
- PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". #B2436BOX W/B2436-51JH COVER, BY CHRISTY CONCRETE.
- VERIFY AND PROVIDE PER FINAL PV SYSTEM DRAWINGS. SHOWN FOR INFORMATION ONLY.
- PROVIDE 3'x5'x4" TRAFFIC RATED VAULT, WITH STEEL DIAMOND PLATE COVER ENGRAVED WITH "ELECTRIC". EDISON 3548FP, BY OLD CASTLE PRECAST.
- RISE UP AND LB INTO BACK OF DISTRIBUTION BOARD.
- REFER TO PROPOSED SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
- PROVIDE CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL FOR ANCHORING EXACT DIMENSIONS AND ALL ANCHORING REQUIREMENTS. CONCRETE HOUSEKEEPING PAD SHALL EXTEND 4" ABOVE FINISHED GRADE.
- PROVIDE 30"x48" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B3048BOX W/B3048-51JH COVER, BY CHRISTY CONCRETE.
- PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
- PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B1324BOX W/B1324-51JH COVER, BY CHRISTY CONCRETE.

UTILITY CONTACTS

SCE (POWER)	GLENN GORSS (805) 603-8061 (CELL) GLENN.GORSS@SCE.COM (E-MAIL)
-------------	--

NOTE:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



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MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
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 PROJECT PHASE: 04CONDOC
 DRAWN BY: D.F.
 REVIEWED BY: D.F.
 SHEET TITLE:

PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER:

E201

DATE:
 03/31/2021

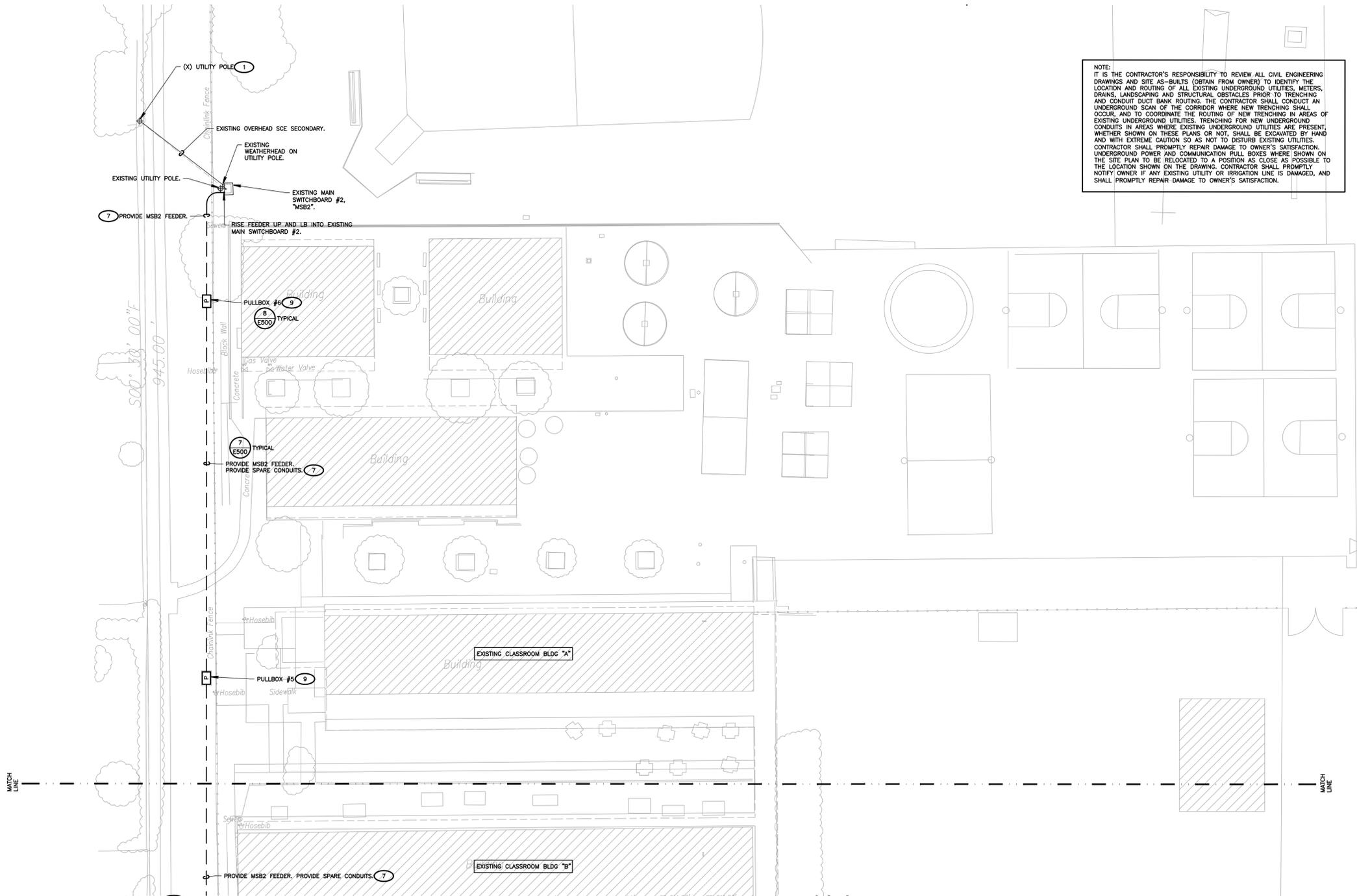
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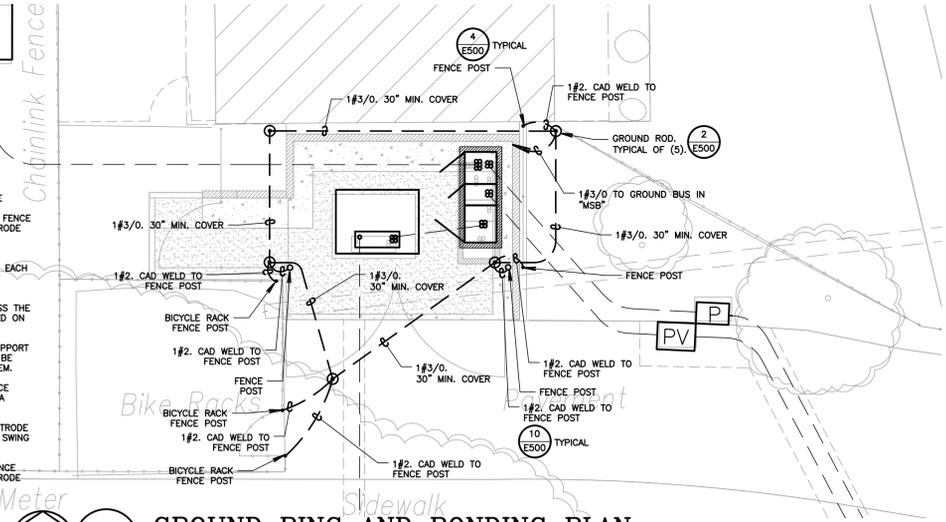
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- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24" 36" MINIMUM BELOW STREETS AND PARKING LOTS, FOR 0-600 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
- VERIFY AND PROVIDE ALL UTILITY SYSTEMS PER SERVING UTILITY STANDARD REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE VOLTAGE SURGE ARRESTER PER NFPA 20, ARTICLE 10.4.1 REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE CONCRETE ENCASMENT AT ALL VERIZON COMPANY CONDUIT BENDS PER VERIZON COMPANY REQUIREMENTS.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROTECT IN PLACE.
 - ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL SIZE COMPANY CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER SIZE COMPANY REQUIREMENTS.
 - PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". #B2436BOX W/B2436-51JH COVER, BY CHRISTY CONCRETE.
 - VERIFY AND PROVIDE PER FINAL PV SYSTEM DRAWINGS. SHOWN FOR INFORMATION ONLY.
 - PROVIDE 3'x5'x4" TRAFFIC RATED VAULT, WITH STEEL DIAMOND PLATE COVER ENGRAVED WITH "ELECTRIC". EDISON 3548FP, BY OLD CASTLE PRECAST.
 - RISE UP AND LB INTO BACK OF DISTRIBUTION BOARD.
 - REFER TO PROPOSED SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
 - PROVIDE CONCRETE HOUSEKEEPING PAD, REFER TO STRUCTURAL FOR ANCHORING EXACT DIMENSIONS AND ALL ANCHORING REQUIREMENTS. CONCRETE HOUSEKEEPING PAD SHALL EXTEND 4" ABOVE FINISHED GRADE.
 - PROVIDE 30"x48" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B3048BOX W/B3048-51JH COVER, BY CHRISTY CONCRETE.
 - PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
 - PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B1324BOX W/B1324-51JH COVER, BY CHRISTY CONCRETE.

1 PARTIAL SITE ELECTRICAL PLAN
 SCALE: 1"=20'-0"



- (A) METAL FENCES: WHERE METAL FENCES ARE LOCATED WITHIN 16 FEET OF THE EXPOSED ELECTRICAL CONDUCTORS OR EQUIPMENT, THE FENCE SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM WITH WIRE-TYPE BONDING JUMPERS.
- BONDING JUMPERS SHALL BE INSTALLED AT EACH FENCE CORNER AND AT A MAXIMUM 160 FOOT INTERVALS ALONG THE FENCE.
 - WHERE BARE OVERHEAD CONDUCTORS CROSS THE FENCE, BONDING JUMPERS SHALL BE INSTALLED ON EACH SIDE OF THE CROSSING.
 - GATES SHALL BE BONDED TO THE GATE SUPPORT POST, AND EACH GATE SUPPORT POST SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.
 - ANY GATE OR OTHER OPENING IN THE FENCE SHALL BE BONDED ACROSS THE OPENING BY A BURIED BONDING JUMPER.
 - THE GROUNDING GRID OR GROUNDING ELECTRODE SYSTEMS SHALL BE EXTENDED TO COVER THE SWING OF ALL GATES.
 - THE BARBED WIRE STRANDS ABOVE THE FENCE SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.

2 GROUND RING AND BONDING PLAN
 SCALE: 1/8"=1'-0"

AGENCY APPROVAL:



CONSULTANTS:

FERRANTI ENGINEERING
 CONSULTING ELECTRICAL ENGINEERS
 1211 MARICOPA HWY, SUITE 250
 OJAI, CA 93023
 (805) 705-4772
 DALEFERRANTI@LIVE.COM



PROJECT:
NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
 OJAI UNIFIED SCHOOL DISTRICT
 414 EAST OJAI AVENUE
 OJAI, CA 93023
 (805) 640-4300
 CONTACT: ADAM DUTTER
 EMAIL: adutter@ojaisd.org

PROJECT ADDRESS:
 TOPA TOPA ELEMENTARY SCHOOL
 916 MOUNTAIN VIEW AVENUE
 OJAI, CA 93023

ISSUE:		
MARK	DATE	DESCRIPTION

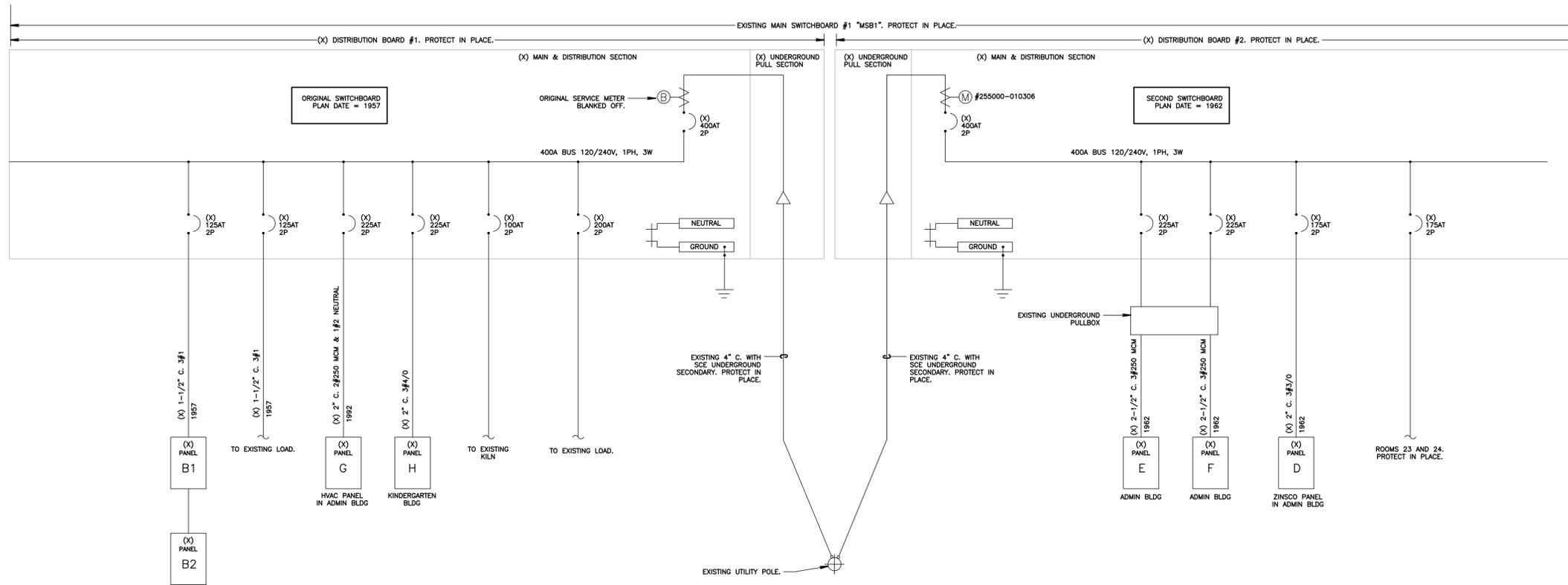
PROJECT INFORMATION:
 PROJECT NUMBER: 2020.011
 PROJECT PHASE: 04CONDOC
 DRAWN BY: D.F.
 REVIEWED BY: D.F.

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 SHEET TITLE:
PARTIAL SITE ELECTRICAL PLAN

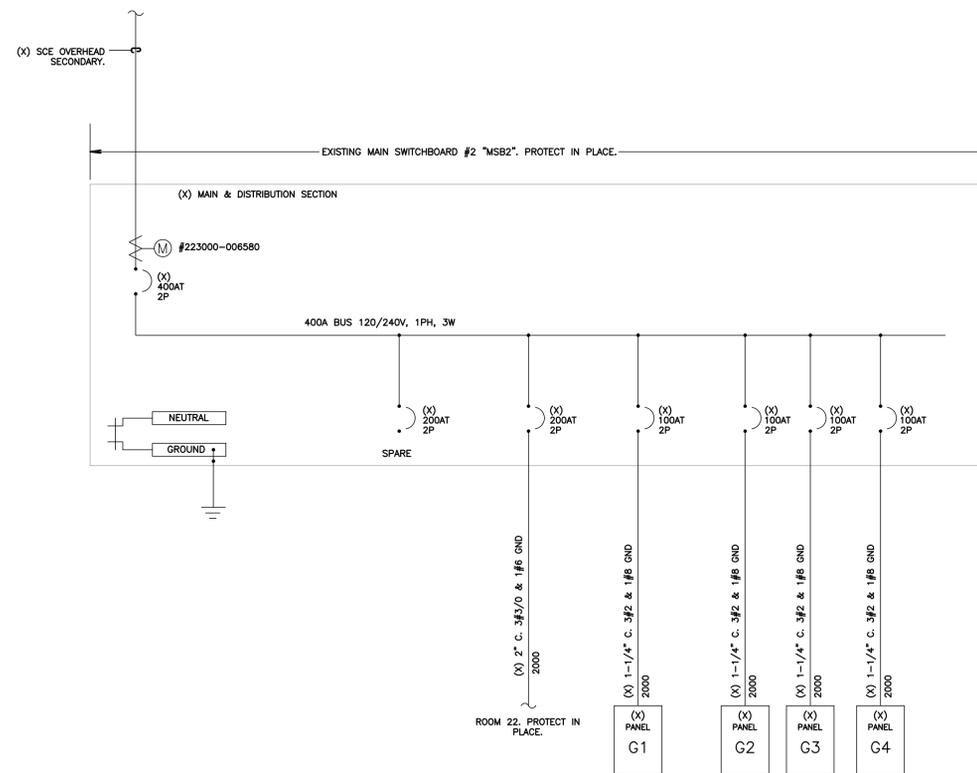
SHEET NUMBER:
E202

DATE:
 03/31/2021





1 SINGLE LINE DIAGRAM (MAIN SWITCHBOARD #1, "MSB1")
SCALE: NOT TO SCALE



2 SINGLE LINE DIAGRAM (MAIN SWITCHBOARD #2, "MSB2")
SCALE: NOT TO SCALE

AGENCY APPROVAL:



HARTMANNARCHITECTURESTUDIO.COM
430 S. CARRILLO RD.
OJAI, CALIFORNIA 93023
(805) 798-2253

CONSULTANTS:

FERRANTI ENGINEERING
CONSULTING
ELECTRICAL ENGINEERS
1211 MARICOPA HWY,
SUITE 250
OJAI, CA 93023
(805) 705-4772
DALEFERRANTI@LIVE.COM

SEALS:



PROJECT:
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& SITE IMPROVEMENTS**

OWNER:
OJAI UNIFIED SCHOOL DISTRICT
414 EAST OJAI AVENUE
OJAI, CA 93023
(805) 640-4300
CONTACT: ADAM DUTTER
EMAIL: adutter@ojaiusd.org

PROJECT ADDRESS:
TOPA TOPA ELEMENTARY SCHOOL
916 MOUNTAIN VIEW AVENUE
OJAI, CA 93023

ISSUE:		
MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
PROJECT NUMBER: 2020.011
PROJECT PHASE: 04CONDOC
DRAWN BY: D.F.
REVIEWED BY: D.F.

SHEET TITLE:
**SINGLE
LINE
DIAGRAMS
EXISTING**

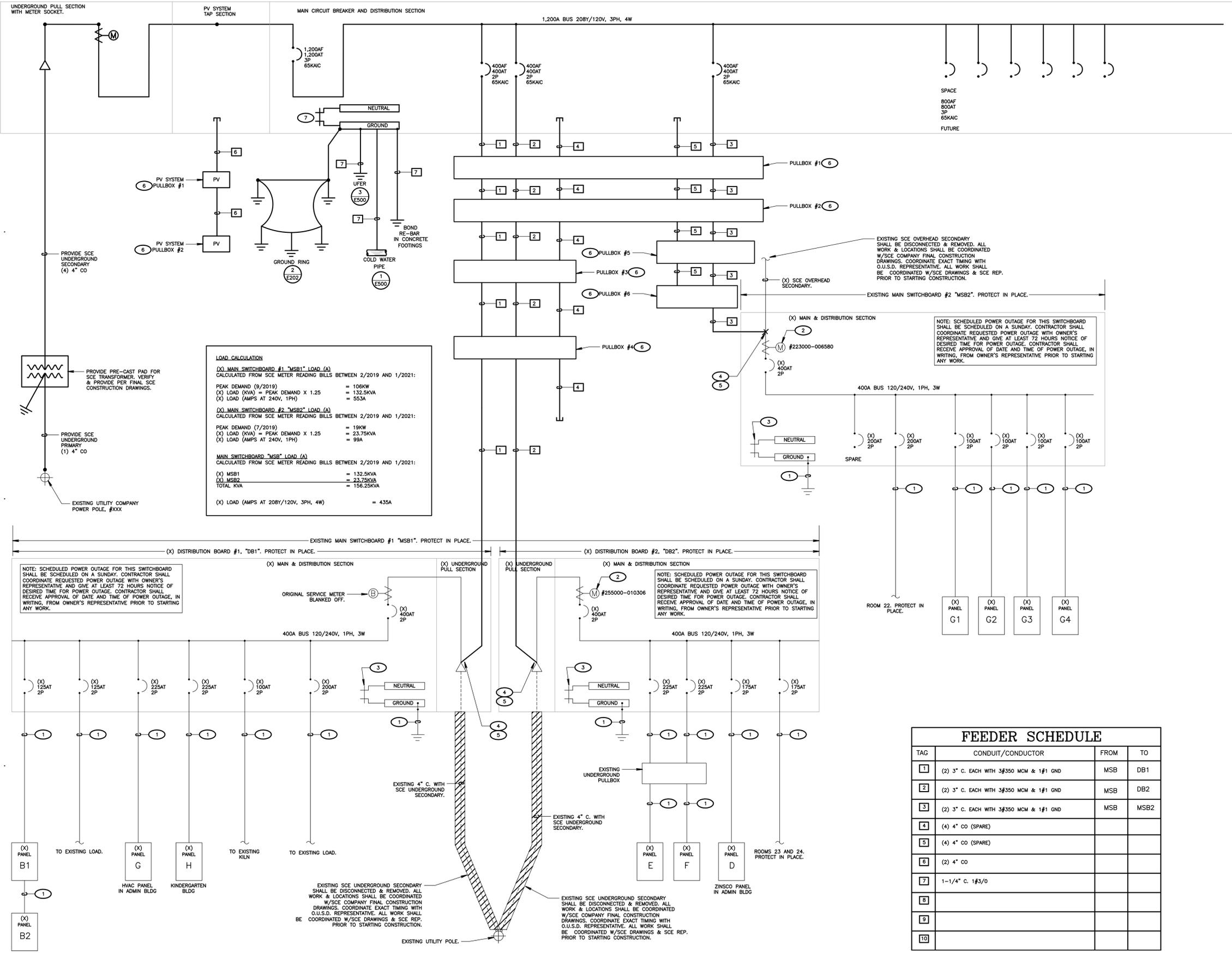
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PROVIDE MAIN SWITCHBOARD, "MSB".



LOAD CALCULATION

(X) MAIN SWITCHBOARD #1 "MSB1" LOAD (A)
 CALCULATED FROM SCE METER READING BILLS BETWEEN 2/2019 AND 1/2021:
 PEAK DEMAND (9/2019) = 106KW
 (X) LOAD (KVA) = PEAK DEMAND X 1.25 = 132.5KVA
 (X) LOAD (AMPS AT 240V, 1PH) = 553A

(X) MAIN SWITCHBOARD #2 "MSB2" LOAD (A)
 CALCULATED FROM SCE METER READING BILLS BETWEEN 2/2019 AND 1/2021:
 PEAK DEMAND (7/2019) = 19KW
 (X) LOAD (KVA) = PEAK DEMAND X 1.25 = 23.75KVA
 (X) LOAD (AMPS AT 240V, 1PH) = 99A

MAIN SWITCHBOARD "MSB" LOAD (A)
 CALCULATED FROM SCE METER READING BILLS BETWEEN 2/2019 AND 1/2021:
 (X) MSB1 = 132.5KVA
 (X) MSB2 = 23.75KVA
 TOTAL KVA = 156.25KVA
 (X) LOAD (AMPS AT 208Y/120V, 3PH, 4W) = 435A

FEEDER SCHEDULE

TAG	CONDUIT/CONDUCTOR	FROM	TO
1	(2) 3" C. EACH WITH 3#350 MCM & 1#1 GND	MSB	DB1
2	(2) 3" C. EACH WITH 3#350 MCM & 1#1 GND	MSB	DB2
3	(2) 3" C. EACH WITH 3#350 MCM & 1#1 GND	MSB	MSB2
4	(4) 4" CO (SPARE)		
5	(4) 4" CO (SPARE)		
6	(2) 4" CO		
7	1-1/4" C. 1#3/0		
8			
9			
10			

SHEET NOTES

- VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
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- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATIONS SHALL BE RATED FOR 75 DEGREES CELSIUS.
- ALL CONDUCTORS #8 AND SMALLER SHALL BE THIN/THIN CU. ALL CONDUCTORS #6 AND LARGER SHALL BE XHHW-2 CU.
- PER CEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- PER CEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- EXISTING FEEDER. PROTECT IN PLACE.
 - EXISTING SCE METER SHALL BE DISCONNECTED & REMOVED. BLANK-OFF METER SOCKET IN A WAY THAT MAINTAINS U.L. LISTING OF EQUIPMENT. ALL WORK SHALL BE COORDINATED WITH SCE COMPANY FINAL CONSTRUCTION DRAWINGS.
 - DISCONNECT & REMOVE MAIN BONDING JUMPER.
 - CONTRACTOR SHALL FIELD VERIFY EXACT POINT OF CONNECTION & PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO RECONNECT SWITCHBOARD TO NEW FEEDER.
 - NOTE: EXACT TIMING OF CUT-OVER SHALL BE COORDINATED WITH SCE COMPANY & O.U.S.D. WORK SHALL BE PERFORMED AFTER HOURS IN ORDER TO MINIMIZE DISRUPTION TO SCHOOL SCHEDULE.
 - NOTE: PULLBOXES NOT SHOWN. REFER TO SITE ELECTRICAL PLANS FOR PULLBOX LOCATIONS AND PULLBOX SPECIFICATIONS.
 - REMOVABLE LINK. MAIN SWITCHBOARD SHALL BE PROVIDED WITH FACTORY INSTALLED MAIN BONDING JUMPER.

AGENCY APPROVAL:

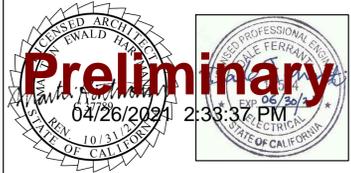


HARTMANNARCHITECTURESTUDIO.COM
 430 S. CARRILLO RD.
 OJAI, CALIFORNIA 93023
 (805) 798-2253

CONSULTANTS:

FERRANTI ENGINEERING
 CONSULTING ELECTRICAL ENGINEERS
 1211 MARICOPA HWY, SUITE 250
 OJAI, CA 93023
 (805) 705-4772
 DALEFERRANTI@LIVE.COM

SEALS:



PROJECT:
 NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
 OJAI UNIFIED SCHOOL DISTRICT
 414 EAST OJAI AVENUE
 OJAI, CA 93023
 (805) 640-4300
 CONTACT: ADAM DUTTER
 EMAIL: adutter@ojaiusd.org

PROJECT ADDRESS:
 TOPA TOPA ELEMENTARY SCHOOL
 916 MOUNTAIN VIEW AVENUE
 OJAI, CA 93023

ISSUE:

MARK	DATE	DESCRIPTION

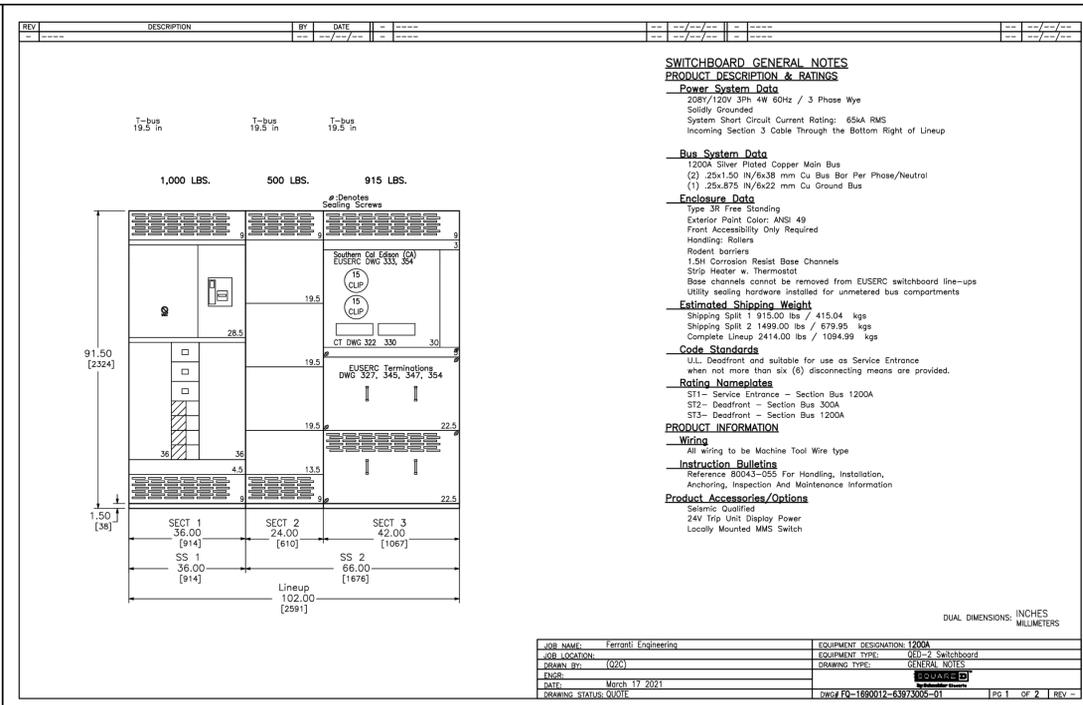
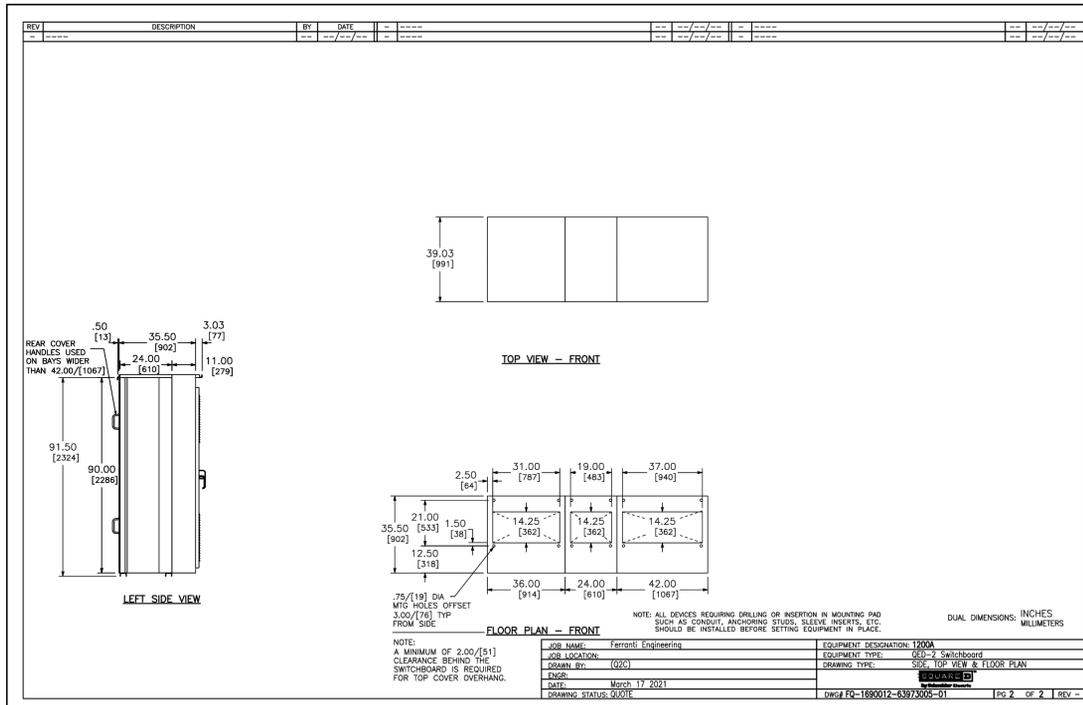
PROJECT INFORMATION:
 PROJECT NUMBER: 2020.011
 PROJECT PHASE: 04COND0C
 DRAWN BY: D.F.
 REVIEWED BY: D.F.

SHEET TITLE:
 SINGLE LINE DIAGRAM PROPOSED

SHEET NUMBER:
 E301

DATE:
 03/31/2021

1 PROPOSED SINGLE LINE DIAGRAM (MAIN SWITCHBOARD, "MSB")
 SCALE: NOT TO SCALE



POWER STYLE QED-2 SWITCHBOARD

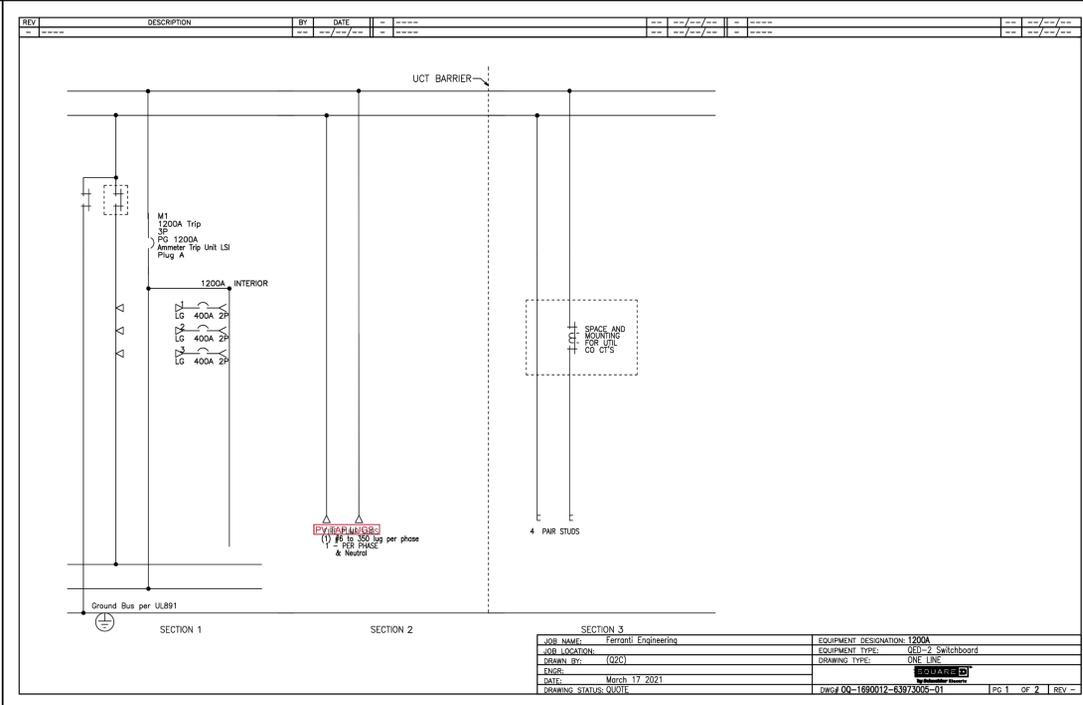
SECT NO	CKT NO	IMD /GMD CONFIG	DEVICE /FRAME RATING	TRIP AMP	FUSE /TRIP	#P	DESIGNATION	N/P	LUG/WIRE INFORMATION		ACCESSORIES / NOTES	
									QTY	PHASE WIRE RANGE		QTY
1	-	-	Strip Heater	-	-	-	-	-	-	-	SHR	
1	M1	FIX	PG 1200A Plug A	1200A	A-LSI	3P	-	No	-	-	PLAMMS,TU	
1	1	6 in	LG 40A	40GA	S-LI	2P	-	No	2	3/0 - 250 kcmil	2	3/0 - 250 kcmil
1	2	6 in	LG 40A	40GA	S-LI	2P	-	No	2	3/0 - 250 kcmil	2	3/0 - 250 kcmil
1	3	6 in	LG 40A	40GA	S-LI	2P	-	No	2	3/0 - 250 kcmil	2	3/0 - 250 kcmil
2	-	-	Strip Heater	-	-	-	-	-	-	-	SHR	
3	-	-	Strip Heater	-	-	-	-	-	-	-	SHR	
3	UCT	-	1200A	-	-	-	Southern Cal Edison (CA)	No	4	Pair Studs	4	Pair Studs

LEGEND
 MMS Maintenance Mode Setting Switch
 PLA Padlock Attachment-Fixed
 SHR Strip Heater
 TU 24V Trip Unit Display Power

JOB NAME: Ferranti Engineering
 JOB LOCATION: (02C)
 DRAWN BY: (02C)
 DATE: March 17 2021
 DRAWING STATUS: QUDR

EQUIPMENT DESIGNATION: 1200A
 EQUIPMENT TYPE: QED-2 Switchboard
 DRAWING TYPE: SCHEDULE
 DATE: March 17 2021
 DRAWING STATUS: QUDR

DWG# 00-1690012-63973005-01 Pg. 2 of 2 | REV. -



1 MAIN SWITCHBOARD, "MSB" SHOP DRAWINGS
 SCALE: NOT TO SCALE

AGENCY APPROVAL:



CONSULTANTS:

FERRANTI ENGINEERING
 CONSULTING ELECTRICAL ENGINEERS
 1211 MARICOPA HWY, SUITE 250
 OJAI, CA 93023
 (805) 705-4772
 DALEFERRANTI@LIVE.COM

SEALS:

PROJECT:
 NEW ELECTRICAL SERVICE & SITE IMPROVEMENTS

OWNER:
 OJAI UNIFIED SCHOOL DISTRICT
 414 EAST OJAI AVENUE
 OJAI, CA 93023
 (805) 640-4300
 CONTACT: ADAM DUTTER
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 TOPA TOPA ELEMENTARY SCHOOL
 916 MOUNTAIN VIEW AVENUE
 OJAI, CA 93023

ISSUE:

MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
 PROJECT NUMBER: 2020.011
 PROJECT PHASE: 04CONDOC
 DRAWN BY: D.F.
 REVIEWED BY: D.F.

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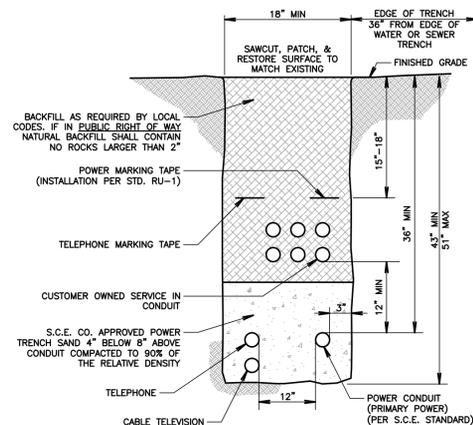
MSB SHOP DRAWINGS

SHEET NUMBER:
E400
 DATE: 03/31/2021

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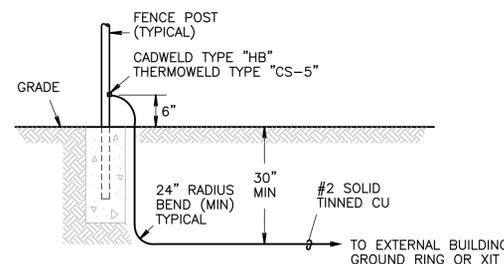
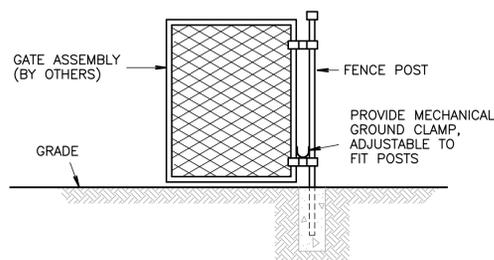
DETAIL NOTES:

- TRENCH DEPTH SHALL BE 43" MIN. BELOW ELEVATION OF FINISHED GRADE.
- REFER TO S.C.E. U.G. STANDARD FOR INSTALLATION OF CONDUIT.
- FOR "SOLE USE" TRENCH WITH ONE CONDUIT ONLY, TRENCH WIDTH MAY BE REDUCED TO TWO TIMES THE NOMINAL DIAMETER OF THE CONDUIT, BUT IN NO CASE LESS THAN 6 INCHES.



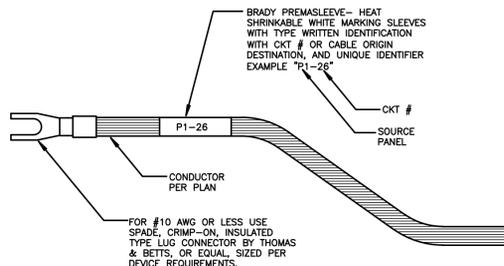
NOTE: VERIFY & PROVIDE TRENCH AND DUCT BANK PER UTILITY COMPANY REQUIREMENTS AND APPROVED SCE COMPANY DRAWINGS.

9 TYPICAL SCE DUCT BANK DETAIL
NOT TO SCALE



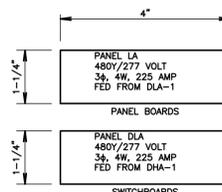
10 FENCE/GATE GROUNDING DETAILS
NOT TO SCALE

NOTE: CONTRACTOR SHALL PROVIDE CONDUCTOR LABELING TO ALL POWER FEEDERS, BRANCH CIRCUITS, CONTROLS CIRCUITS, COMMUNICATIONS CABLES, FIRE ALARM CABLING, AND SECURITY SYSTEM CONDUCTORS.



TYPICAL CONDUCTOR LABEL

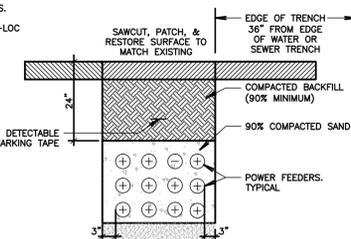
5 TYPICAL LABELING DETAIL
SCALE: NOT TO SCALE



NOTE: CONTRACTOR SHALL PROVIDE NAMEPLATES ON ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, PANELBOARDS, FEEDER BREAKERS, PULLBOXES, GENERATORS, TRANSFER SWITCHES, DISCONNECTS, ETC. IDENTIFICATION SHALL MATCH PROJECT SPECIFIC DETAILS

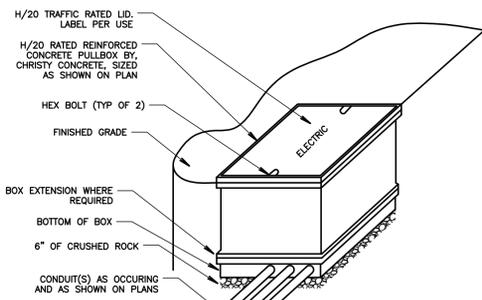
6 TYPICAL NAMEPLATE DETAILS
NOT TO SCALE

- NOTES:**
- CONDUIT QUANTITIES AS INDICATED ON PLANS.
 - ALL CONDUITS SHALL BE ON CARLON SNAP-LOC SPACERS - 8\"/>

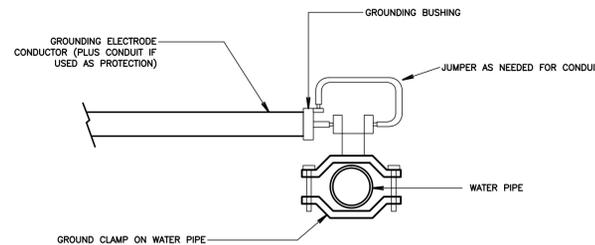


NOTE: THIS IS A TYPICAL DETAIL. REFER TO THE ELECTRICAL PLANS FOR QUANTITY AND SIZE OF UNDERGROUND CONDUITS AND FEEDERS.

7 TYPICAL DUCT BANK SECTION
SCALE: NOT TO SCALE



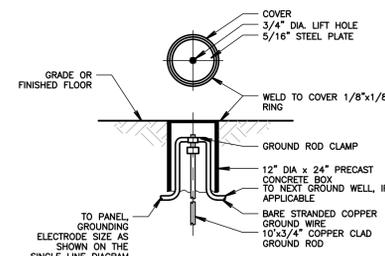
8 TYPICAL PULL BOX DETAIL
SCALE: NOT TO SCALE



DETAIL NOTES

- BOND METAL PIPING SYSTEMS AT EACH BUILDING PER NEC, ARTICLE 250 REQUIREMENTS.

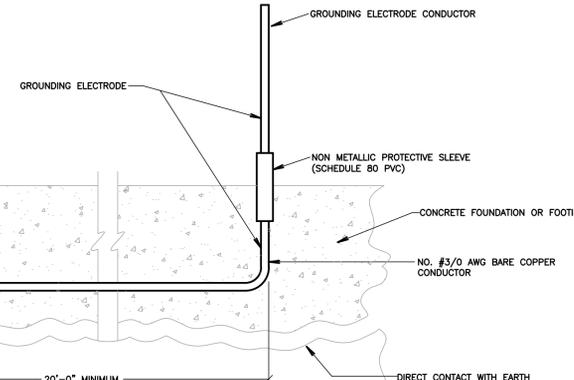
1 COLD WATER GROUND DETAIL
NOT TO SCALE



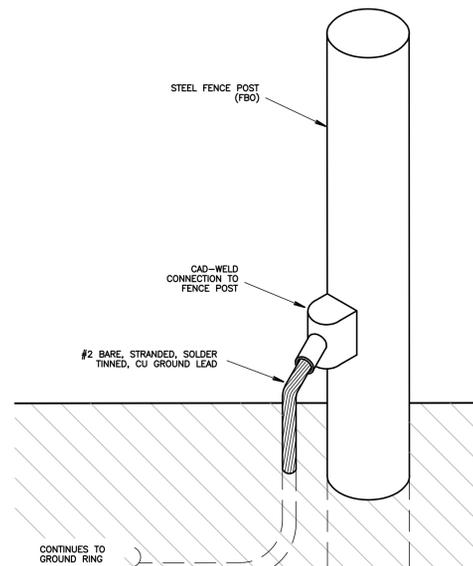
2 GROUND ROD DETAIL
SCALE: NOT TO SCALE

DETAIL NOTES

- CONCRETE-ENCASED ELECTRODE, AN ELECTRODE ENCASED BY AT LEAST TWO INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. #3/0.
- PROVIDE UFER GROUND AT EACH BUILDING PER NEC ARTICLE 250 REQUIREMENTS.



3 UFER GROUND DETAIL
NOT TO SCALE



4 FENCE POST GROUNDING DETAIL
NOT TO SCALE

AGENCY APPROVAL:



HARTMANNARCHITECTURESTUDIO.COM
430 S. CARRILLO RD.
OJAI, CALIFORNIA 93023
(805) 798-2253

CONSULTANTS:

FERRANTI ENGINEERING
CONSULTING
ELECTRICAL ENGINEERS
1211 MARICOPA HWY,
SUITE 250
OJAI, CA 93023
(805) 705-4772
DALEFERRANTI@LIVE.COM

SEALS:



PROJECT:
NEW ELECTRICAL SERVICE
& SITE IMPROVEMENTS

OWNER:
OJAI UNIFIED SCHOOL DISTRICT
414 EAST OJAI AVENUE
OJAI, CA 93023
(805) 640-4300
CONTACT: ADAM DUTTER
EMAIL: adutter@ojaiusd.org

PROJECT ADDRESS:
TOPA TOPA ELEMENTARY SCHOOL
916 MOUNTAIN VIEW AVENUE
OJAI, CA 93023

ISSUE:

MARK	DATE	DESCRIPTION

PROJECT INFORMATION:
PROJECT NUMBER: 2020.011
PROJECT PHASE: 04COND0C
DRAWN BY: D.F.
REVIEWED BY: D.F.
THE ORIGINAL SIZE OF THIS SHEET IS 36\"/>

**ELECTRICAL
DETAILS**

SHEET NUMBER:

E500

DATE:
03/31/2021