

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

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SACRAMENTO, CA 94244-2460
(916) 653-7772
Website: www.fire.ca.gov



**Invitation for Bid
Notice to Prospective Bidders
2CA08024– Install Generator, Automatic Transfer Switch, and CamLock**

August 20, 2026

You are invited to review and respond to this Invitation for Bid (IFB). In submitting your bid, you must comply with these instructions. In addition to those programs and preferences that are specified in this solicitation, Prospective Contractors are encouraged to consider programs and preferences that are available, such as those for the use of small businesses, disadvantaged businesses, disabled veteran businesses, and other businesses covered by State and Federal programs and preferences.

On March 04, 2022, Governor Gavin Newsom issued Executive Order N-6-22 (the EO) regarding Economic Sanctions against Russia and Russian entities and individuals. "Economic Sanctions" refers to sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as any sanctions imposed under state law. By submitting a bid or proposal, Contractor represents that it is not a target of Economic Sanctions. Should the State determine Contractor is a target of Economic Sanctions or is conducting prohibited transactions with sanctioned individuals or entities, that shall be grounds for rejection of the Contractor's bid/proposal any time prior to contract execution, or, if determined after contract execution, shall be grounds for termination by the State.

A Disabled Veteran Business Enterprise (DVBE) goal is not required, but DVBE participation is encouraged, and a DVBE incentive may apply to this IFB. See **Section D, Special Programs, Item 1**, in this IFB for requirements.

As required by Executive Order S-02-06, the California Department of Forestry and Fire Protection (CAL FIRE) is committed to meeting the State's 25 percent (25%) Small Business (SB) participation goal. Certified SBs, Micro Businesses (MB), and contractors willing to commit to subcontracting a minimum of 25 percent (25%) of their net bid price to certified SBs or MBs (if applicable), are encouraged to submit bids. See **Section D, Special Programs, Item 2**, in this IFB for requirements.

Note that all agreements entered into with the State of California will include by reference General Terms and Conditions (GTC 02/2025) and Contractor Certification Clauses that may be viewed and downloaded at Internet site <https://www.dgs.ca.gov/OLS/Resources/Page-Content/Office-of-Legal-Services-Resources-List-Folder/Standard-Contract-Language>. If you do not have Internet access, a hard copy can be provided by contacting the person listed below.

This contract requires Prevailing Wages if the total bid amount exceeds **\$1,000.00**. If the total bid amount is under **\$1,000.00**, then Prevailing Wage language will be removed prior to award. Refer to **Sample Standard Agreement**, for requirement details.

In the opinion of California Department of Forestry and Fire Protection (CAL FIRE), this IFB is complete and without need of explanation. However, if you have questions, or should you need any clarifying information, the contact person for this IFB is:

Christopher Cabanes
California Department of Forestry and Fire Protection
710 Riverpoint Court
West Sacramento, CA 95605

CONSERVATION IS WISE-KEEP CALIFORNIA GREEN AND GOLDEN

Christopher.Cabanes@fire.ca.gov

Please note that no *verbal* information given will be binding upon the State unless such information is issued in writing as an official addendum.

Technical questions regarding this solicitation will be addressed, in writing, and in accordance with the Questions and Answers portion of this IFB. See **Section C, Item 1, Key Action Dates** for more details.

Christopher Cabanes
Contract Analyst

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PLEASE REMEMBER TO CONSERVE ENERGY. FOR TIPS AND INFORMATION, VISIT "FLEX YOUR POWER" AT WWW.CA.GOV

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A) Purpose and Description of Services

1. Contractor agrees to provide to the California Department of Forestry and Fire Protection (CAL FIRE) **Install Generator, Automatic Transfer Switch (ATS), and CamLok**, as described herein:
2. Contractor shall provide all materials, labor, equipment, tools, permits, taxes, transportation, and fees to install Generator, Automatic Transfer Switch, and CamLok at Happy Valley Fire Center.
3. Services are needed to provide an emergency backup power and maintain critical operations at the CAL FIRE Happy Valley Fire Center during power outages.

B) Bidder Minimum Qualifications

1. The Prime Bidder must be either an individual or firm currently licensed to do business in California and provide proof of such as required in **Required Attachment Checklist, Attachment 1**.
2. The Prime Bidder must have a business license or incorporation papers for their respective State showing that their company is in good standing in that state, if the Prime Bidder's base of operation is located outside the State of California and provide proof of such as required in **Required Attachment Checklist, Attachment 1**.
4. The Prime and subcontractor(s) bidder must have a valid **C10-Electrical Contractor** license issued by the California State Licensing Board (CSLB) and must provide proof at the time of bid submittal.
5. The Prime Bidder and subcontractor(s) (if applicable) must be registered with the Department of Industrial Relations (DIR) Public Works Contractor Registration and provide proof of such as required in **Required Attachment Checklist, Attachment 1**.
6. Contractor must provide a Bidder's Bond executed by an admitted surety insurer and made payable to the State of California, or a cashier's check or money order payable to the State of California in an amount equal to ten percent (10%) of the total bid price, if the bid price is \$484,000.00 or higher.
7. By submitting its bid, Bidder certifies, under penalty of perjury, that its Contractors State License Board (CSLB) license is in a classification appropriate to the work to be undertaken as identified in the **Sample Standard Agreement, Exhibit A, Scope of Work, Section 8**. This requirement has also been added in the **Sample Standard Agreement, Exhibit E, Section 5**. Refer to **Section C, Bid Requirements and Information, Contractor License**, for submittal requirements.
8. Failure of Bidder to sufficiently provide any or all of the minimum qualifications, in the opinion of CAL FIRE, will result in the Bidder's bid deemed non-responsive.

C) Bid Requirements and Information

1. Key Action Dates

It is recognized that time is of the essence. All bidders are hereby advised of the following schedule and will be expected to adhere to the required dates and times.

Event	Date	Time (Pacific Time)
IFB available to prospective bidders	August 20, 2026	
Mandatory Pre-bid Conference	September 01, 2026	11:00 a.m.
Written Question Submittal	September 03, 2026	
Final Date and Time for Bid Submission	September 16, 2026	05:00 p.m.
Bid Opening	September 17, 2026	02:00 p.m.

2. Mandatory Pre-Bid Walk-Through

- A. A mandatory pre-bid walk-through is scheduled at **11:00 a.m.** on **September 01, 2026**, for the purpose of viewing the site and discussing concerns regarding this IFB.

Please contact Gary Pepperdine Gary.Pepperdine@fire.ca.gov no later than **11:00 a.m.** on **August 31, 2026** to arrange for attendance of the mandatory Pre-bid Walk-Through.

The meeting site is CAL FIRE Happy Valley Fire Center 855 Canyon Road, Redding, CA 96001

- B. In the event a potential prime contractor is unable to attend the mandatory pre-bid walk-through, an authorized representative may attend on their behalf. The representative may only sign-in for one (1) company. Subcontractors may not represent a potential prime contractor at a mandatory pre-bid walk-through. No bid will be accepted unless the bidder or his authorized representative was in attendance.

3. Written Question and Answer Period

- A. Potential Bidders who attended the mandatory pre-bid walk-through may submit written questions regarding the bid by **September 03, 2026**. All questions should be emailed in writing to Christopher.Cabanes@fire.ca.gov. NO QUESTIONS will be accepted after **September 03, 2026**.
- B. Written questions must include: the individual's name, firm name, complete address and must reference IFB No. **2CA08024**.
- C. Written responses to all questions will be collectively compiled and posted, as an Addendum, to the Cal eProcure website (<https://caleprocure.com/pages/index.aspx>). It is the responsibility of the Bidder to access the website for any changes or addenda that may be posted. Refer to this **IFB, Section C1, Key Action Dates**, for the schedule of events and dates/times. It is the responsibility of the bidder to check Cal eProcure for all addenda. Bidder can contact the Contract Analyst named above.

4. Costs Included in Bid Rates

Bid prices/rates shall include the cost of employer payments to or on behalf of employees, subsistence, travel, compensation insurance premiums, unemployment contributions, social security taxes, contract bond premiums, and any other taxes or assessments, **including but not limited to, sales and use taxes** required by law or otherwise and no additional allowance will be paid unless separate payment provisions in the Agreement should specifically provide otherwise.

5. Employment of undocumented Workers

No State agency or department, as defined in California Public Contract Code Section 10335.7, that is subject to this code, shall award a public works contract to a bidder or contractor, nor shall a bidder or contractor be eligible to bid for or receive a Public Works Agreement, who has, in the preceding five (5) years, been convicted of violating a State or Federal law regarding the employment of undocumented workers (Pub. Cont. Code Section 6101).

6. State General Prevailing Wage Rates

State General Prevailing Wage Rates will apply for the County of Shasta as described in the attached **Sample Standard Agreement, Exhibit B**. The predetermined general prevailing wage rates published by the Director of Industrial Relations may be obtained via the Internet: <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. It is the bidder's responsibility to use the correct classification determination published by the Department of Industrial Relations.

7. Postconsumer Content Certification

Your signature affixed hereon and dated on the **Bid/Bidder Certification Sheet, Attachment 5** shall signify that you are aware of the recycle materials, goods, and supplies program requirements of Public Contract Code Sections 12200 and 12205, and that the Recycled-Content Certification will be required for the successful contractor. The awarded bidder will be required to complete a Postconsumer-Content Certification (CalRecycle 74) and provide the form with the signed Agreement. An incomplete form or failure to provide a completed form will result in cancellation of the Agreement. The Postconsumer-Content Certification can be downloaded at <https://calrecycle.ca.gov/buyrecycled/>.

8. Mandatory Organic Waste Recycling

The Contractor generating organic waste or commercial solid waste shall arrange for the recycling services required by this section in a manner that is consistent with State and local laws and requirements, including a local ordinance or local jurisdiction's franchise agreement, applicable to the collection, handling, or recycling of organic waste and commercial solid waste. This requirement does not modify, limit or abrogate the Contractors right to sell or donate its recyclable organic waste materials consistent with the requirements of Public Resources Code Sections 42649.8 et seq.

9. Motor Carrier Permit Requirements

- A. Contractor is responsible for determining whether California Vehicle Code Sections 34601 and 34620 require Contractor to have a valid Motor Carrier Permit (MCP) issued by the Department of Motor Vehicles (DMV) in order for Contractor to lawfully perform any part or aspect of the work described in **Exhibit A, Scope of Work**, and, if California Vehicle Code Sections 34601 and 34620 do require same for any part or aspect of such work, Contractor must have a valid MCP(s) issued from the DMV for its services as a Motor Carrier of Property under this Agreement. Contractor shall pay any required fees necessary to obtain and maintain in good standing during the entire term of this Agreement the any such required MCP(s).
- B. The MCP(s), if any, required for the Contractor's Motor Carriers of Property under California Vehicle Code Sections 34601 and 34620 shall be on file with the Contractor for the duration of this Agreement. Upon request of CAL FIRE, the Contractor must immediately provide to CAL FIRE a copy of the required MCP(s), if any.

10. Contractor Registration Program

- A. No Contractor or Subcontractor may be listed on a bid proposal for a public works contract unless registered with the Department of Industrial Relations (DIR), pursuant to Labor Code Section 1725.5 with limited exceptions from this requirement for bid purposes only under LC Section 1771.1(a)).
- B. No Contractor or Subcontractor may be awarded a public works contract or commercial service contract requiring prevailing wages, unless registered with DIR pursuant to Labor Code Section 1725.5.
- C. CAL FIRE will verify each of the registration numbers prior to contract award. Bidders that do not possess the required DIR registration will be deemed non-responsive and rejected from further consideration in the solicitation process.

11. Contractor's License

Bidder must have, at time of bid submittal and for the duration of the contract, a valid, current **C10-Electrical Contractor** license issued by the Contractors State License Board (CSLB), for the type of work to be performed. Bidder shall obtain, pay for and maintain, in good standing, all necessary licenses and permits to accomplish the work. Bidders will be considered non-responsive unless proper licensing requirements are met. An invalid license will result in rejection of the bid. Positive verification of a valid license issued by the CSLB will be performed by CAL FIRE (reference Business and Professions Code Section 7028.15).

12. Subcontractors

Bidder may subcontract portions of the work as defined in the attached **Sample Standard Agreement**. If subcontractors are used, complete the **Bidder Declaration (GSPD-05-105), Attachment 5**. Bidder must ensure that the subcontractor(s) will have all necessary licenses, permits, and/or certifications to accomplish its portion of the work. Failure of a subcontractor(s) to have the proper licenses, permits, and/or certifications, shall be cause for rejection of bid. The Bidder Declaration can also be downloaded at which can be downloaded at <https://www.documents.dgs.ca.gov/dgs/fmc/gsp/pd/gspd05-105.pdf>.

13. Non-Collusion Declaration for Public Works

Bidder must submit, as described herein, a non-collusion declaration for Public Works. The non-collusion declaration is attached to this IFB as **Attachment 12**. Failure to submit a complete declaration shall result in rejection of the bid.

14. Bonds

- A. Bidder's Bond is required for Bids \$484,000 and greater: Bidder shall submit a *bid bond (executed by an admitted surety insurer) with bid as described herein. The bidder's bid bond shall be no less than 10 percent (10%) of bidder's total bid, must be notarized and include the embossed surety seal and must include a Power of Attorney if the signee is not an officer of the surety. Submittal of a bid bond that is not in the appropriate amount, signed and stamped with the surety seal, or failure to submit a bid bond shall be cause for rejection of bid. *The bidder may also submit, in lieu of a Bidder's Bond, one of the following forms of bidder's security: cash, cashier's check, or certified check made payable to CAL FIRE.
- B. Payment Bond (STD 807) Requirement: If the successful bidder's bid exceeds \$25,000, the successful bidder shall furnish a Payment Bond for not less than 100 percent (100%) of the total amount payable by

the terms of this Agreement. The Payment Bond is due prior to the start date of work. No work may commence without receipt of a valid Payment Bond. The Payment Bond must be in effect at all times for the duration of the Agreement. If the Payment Bond expires during the term of the Agreement, a new Payment Bond must be provided to the CAL FIRE representative not less than 10 business days prior to its expiration. Failure to maintain a Payment Bond for the full term of this Agreement will be grounds for termination for default in addition to other legal remedies CAL FIRE may have. Inadequate or lack of a Payment Bond does not negate the Contractor's obligations under this Agreement.

15. Insurance

- A. The bidder, who receives the Agreement award, must provide a Certificate of Insurance providing proof of insurance to the Business Service Office (BSO) within ten (10) working days from the date of notification of award. The State's Office of Risk and Insurance Management will review insurance certificates and/or proof of self-insurance documentation before execution of the Agreement. Refer to the **Sample Standard Agreement Exhibit E, Section 1** for the applicable and specific Insurance requirements and coverage limits.
- B. The insurance carrier shall provide an endorsement for the additional insured statement as follows:
The State of California, its officers, agents and employees are included as additional insured, but only with respect to work performed for the State of California under the contract.
- C. The additional insured endorsement must accompany the certificate of insurance.
- D. Available Coverages/Limits
In the event the insurance coverages obtained by the Contractor is broader in scope than, and/or the limits are higher than, those required under the contract, all such broader coverage and/or higher limits available to the Contractor shall also be available and applicable to the State.
- E. In the case of Contractor and/or Permittee's utilization of subcontractors to complete the contracted scope of work, contractor and/or Permittee shall include all subcontractors as insured under Contractor and/or Permittee's insurance or supply evidence of insurance to The State equal to policies, coverages and limits required of Contractor and/or Permittee.

16. California Civil Rights Laws

Any person that submits a bid or proposal to, or otherwise proposes to enter into or renew a contract with, a state agency with respect to any contract in the amount of one hundred thousand dollars (\$100,000.00) or more shall certify, under penalty of perjury, at the time the bid or proposal is submitted or the contract is renewed, that they satisfy all of the conditions set forth in California Public Contract Code Section 2010 and they shall execute the **California Civil Rights Laws Certification**, as **Attachment 11**, completed, signed, and returned with its bid or proposal.

17. Darfur Contracting Act

- A. The Darfur Contracting Act, Public Contract Code Section 10475-10481, applies to any company that currently or within the previous three (3) years has had business activities or other operations outside of the United States. The Act was passed by the California Legislature and signed into law by the Governor to preclude State agencies generally from contracting with "scrutinized" companies that do business in the African nation of Sudan (of which the Darfur region is a part), for the reasons described in Public Contract Code Section 10475. All bidders shall complete the **Darfur Contracting Act Certification, CAL FIRE-720, Attachment 6**, and submit with the proposal.
- B. If your company has not, within the previous three (3) years, had any business activities or other operations outside of the United States, complete **Option 1** on the **CAL FIRE-720**.
- C. A scrutinized company is a company doing business in Sudan as defined in Public Contract Code Section 10476. Scrutinized companies are ineligible to, and cannot bid on, or submit a bid or proposal for an Agreement with a State agency for goods or services. (Pub. Cont. Code Section 10477(a)).
- D. Therefore, Public Contract Code Section 10478(a) requires a company that currently has (or within the previous three (3) years has had business activities or other operations outside of the United States to certify that it is not a "scrutinized" company when it submits a bid or proposal to a State agency.

- E. A scrutinized company may still; however, submit a bid or proposal for an Agreement with a State agency for goods or services if the company first obtains permission from the Department of General Services according to the criteria set forth in Public Contract Code Section 10477(b).

18. Iran Contracting Act

- A. Pursuant to the Iran Contracting Act of 2010 (Pub. Cont. Code Sections 2200 et seq., hereinafter "the Act"), persons identified on the list established under Public Contract Code Section 2202.5 (hereinafter "List") are ineligible to bid on, submit a proposal for, enter into, or renew any contract with the State for goods or services of one million dollars or more.
- B. Any person who submits a bid or proposal must complete and submit to CAL FIRE with its bid proposal, the **Iran Contracting Act Certification (DGS PD 3), Attachment 7**, certifying that it is not on the most current List unless the person is exempted from the certification requirement by Public Contract Code Section 2203(c) or (d). If claiming an exemption, the person shall provide written evidence that supports an exemption under Public Contract Code Section 2203(c) or (d) with its bid or proposal. **The Iran Contracting Act Certification** can also be downloaded at https://www.documents.dgs.ca.gov/dgs/FMC/GS/PD/PD_3.pdf.
- C. Any person, for a contract that is exempt from bidding or is renewed, or for whom a contract is otherwise awarded by the State, must complete and submit to CAL FIRE the DGS PD 3, certifying that it is not on the most current List, before the contract has been executed by the parties, unless the person is exempted from the certification requirement by Public Contract Code Section 2205(c) or (d). If claiming an exemption, the person shall provide written evidence that supports an exemption under Public Contract Code Section 2203(c) or (d), before execution of the contract.

19. Submission of Bid

- A. All bids must be submitted and received under **sealed** cover and sent to CAL FIRE by dates and times shown in **Section C, Bid Requirements and Information, Item 1) Key Action Dates**.
- B. Bids can be submitted by Mail

1) Mail in Submission

The mailing packaging/envelope should be labeled as follows:

Your Firm Name
Your Street Address/PO Box #
Your City, State and Zip Code

IFB 2CA08024
Install Generator, Automatic Transfer Switch, and
CamLok
Bid Due Date: September 16, 2026
Attention: Christopher Cabanes

California Department of Forestry and Fire Protection
Business Services Office (BSO), Contract Unit
710 Riverpoint Court
West Sacramento, CA 95605

BID SUBMITTAL DO NOT OPEN

- C. **Late bids will not be considered.**
- D. All bids shall include the documents identified in **Required Attachment Checklist, Attachment 1**. Bids with incomplete documents or not including the proper "required attachments" shall be deemed non-responsive. A non-responsive bid is one that does not meet the basic bid requirements.
- E. All documents requiring a signature must bear an original signature of a person authorized to bind the bidding firm.
- F. Bids must be submitted for the performance of all the services described herein. Any deviation from the work specifications will not be considered and will cause a bid to be rejected.

- G. A bid may be rejected if it is conditional or incomplete, or if it contains any alterations of form or other irregularities of any kind. The State may reject any or all bids and may waive an immaterial deviation in a bid. The State's waiver of immaterial deviation shall in no way modify the IFB document or excuse the bidder from full compliance with all requirements if awarded the agreement.
- H. Costs for developing bids and in anticipation of award of the agreement are entirely the responsibility of the bidder and shall not be charged to the State of California.
- I. An individual who is authorized to bind the bidder contractually shall sign **Bid/Bidder Certification Sheet, Attachment 2**. The signature should indicate the title or position that the individual holds in the firm. An unsigned bid may be rejected.
- J. A bidder may modify a bid after its submission by withdrawing its original bid and resubmitting a new bid prior to the bid submission deadline. Bidder modifications offered in any other manner, oral or written, will not be considered.
- K. A bidder may withdraw its bid by submitting a written withdrawal request to the State, signed by the bidder or an authorized agent. A bidder may thereafter submit a new bid prior to the bid submission deadline. Bids may not be withdrawn without cause subsequent to bid submission deadline.
- L. The awarding agency may modify the IFB prior to the date fixed for submission of bids by the issuance of an addendum to all parties who received a bid package.
- M. The awarding agency reserves the right to reject all bids. The agency is not required to award an agreement.
- N. Before submitting a response to this solicitation, bidders should review, correct all errors and confirm compliance with the IFB requirements.
- O. Where applicable, bidder should carefully examine work sites and specifications. Bidder shall investigate conditions, character, and quality of surface or subsurface materials or obstacles that might be encountered. No additions or increases to the agreement amount will be made due to a lack of careful examination of work sites and specifications.
- P. The State does not accept alternate contract language from a prospective Contractor. A bid with such language will be considered a counter proposal and will be rejected. The State's General Terms and Conditions (GTC) are not negotiable. The GTC may be viewed at Internet site <https://www.dgs.ca.gov/OLS/Resources/Page-Content/Office-of-Legal-Services-Resources-List-Folder/Standard-Contract-Language>.
- Q. No oral understanding or agreement shall be binding on either party.
- R. Bidder must complete and submit to the awarding agency **Payee Data Record, STD 204, Attachment 8**, to determine if the Contractor is subject to state income tax withholding pursuant to California Revenue and Taxation Code Sections 18662 and 26131. This form can be found on the Internet at <http://www.documents.dgs.ca.gov/dgs/fmc/pdf/std204.pdf> under the heading STANDARD FORMS; select "Forms Search" and enter the form number "204". No payment shall be made unless a completed STD 204 has been returned to the awarding agency.
- S. Bidder must sign and submit to the awarding agency, **Contractor Certification Clauses (CCC), Attachment 9**, which can be found on the Internet at: <https://www.dgs.ca.gov/-/media/Divisions/OLS/Resources/CCC-042017.pdf?la=en&hash=4DE3E4DC414511AE378794200BA43EBF91C758EE>.

20. Bid Opening

- A. Bid openings will be held virtually only.
- B. Public Bid Opening dial in information:
 - 1) Dial in: 650-564-3271
 - 2) Phone Conference ID: 764 400 398#

21. Evaluation and Selection

- A. At the time of bid opening, each bid will be checked for the presence or absence of required information in conformance with the submission requirements of this IFB.
- B. The State will evaluate each bid to determine its responsiveness to the published requirements.
- C. Bids that contain false or misleading statements, or which provide references, which do not support an attribute or condition claimed by the bidder, may be rejected.
- D. Award if made, will be to the lowest responsive responsible bidder.
- E. In the event of a tie bids, the award will be determined by a coin toss. The coin toss will be held in the State Agency's headquarters area office. This is a public event, which the bidders will be invited to attend. The selection of the Contractor will be at the sole discretion of the State.

22. Award and Protest

- A. Whenever an agreement is awarded under a procedure, which provides for competitive bidding, but the agreement is not to be awarded to the low bidder, the notification must be "by telegram, electronic facsimile transmission, overnight courier, Internet transmission, or personal delivery." (PCC § 10345(a).)
- B. On written request from any bidder, the awarding agency must post a notice of the proposed contract award in a place accessible by the general public, including any Internet site identified in the IFB at least five working days prior to awarding the contract. (PCC § 10345(a)(1).)
- C. If any bidder, prior to the award of agreement, files a protest with the Department of General Services, Office of Legal Services, 707 Third Street, 7th Floor, Suite 7-330, West Sacramento, CA 95605 and CAL FIRE, on the grounds that the (protesting) bidder is the lowest responsive responsible bidder, the agreement shall not be awarded until either the protest has been withdrawn or the Department of General Services has decided the matter.
- D. Within five (5) days after filing the initial protest, the protesting bidder shall file with the Department of General Services and the awarding agency a detailed written statement specifying the grounds for the protest. The written protest must be sent to the Department of General Services, Office of Legal Services, 707 Third Street, 7th Floor, Suite 7-330, West Sacramento, California 95605. A copy of the detailed written statement should be mailed to the awarding agency. It is suggested that you submit any protest by certified or registered mail.

California Department of Forestry and Fire Protection Office of Business Services, Contracts Unit Attention: Christopher Cabanes 710 Riverpoint Court West Sacramento, CA 95605 Email: Christopher.Cabanes@fire.ca.gov	Department of General Services Office of Legal Services Attention: Bid Protest Coordinator 707 Third Street, 7th Floor, Suite 7-330 West Sacramento, CA 95605 Phone Number: (916) 376-5080 Email: OLSProtests@dgs.ca.gov
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23. Disposition of Bids

- A. Upon bid opening, all documents submitted in response to this IFB will become the property of the State of California and will be regarded as public records under the California Public Records Act (Government Code Section 6250 et seq.) and subject to review by the public.
- B. Bid packages may be returned only at the bidder's expense unless such expense is waived by the awarding agency.

24. Standard Conditions of Service

- A. After award of the Agreement and execution of the Agreement, should the Contractor fail to commence work within five (5) working days after notification of the starting date, or suspend work for a period of five (5) continuous working days after work has begun, CAL FIRE may provide five (5) calendar days written notice, posted at the job site or mailed to the Contractor, to timely prosecute and complete the work or the Agreement may be terminated and liquidated damages assessed for administrative costs for re-bidding the work or awarding the work to another Contractor. In addition, that Contractor shall be liable to CAL FIRE for

the difference between the Contractor's bid price and the actual cost of performing the work by the second low bidder or by another Contractor.

B. All performance under the Agreement shall be completed on or before the termination date of the Agreement.

C. Antitrust Provisions

1)The Contractor offers and agrees and will require all of his other subcontractors and suppliers to agree to assign to the awarding body all rights, title, and interest in and to all causes of action they may have under Section 4 of the Clayton Act (15 USC section 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 public works contract or subcontract. The assignment made by the contractor and all additional assignments made by the subcontractors and suppliers shall be deemed to have been made and will become effective at the time the awarding body tenders final payment to the Contractor without further acknowledgment or the necessity of tendering to the awarding body any written assignments.

2)If an awarding body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Government Code Sections 4550-4554, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, on demand, recover from the public body any portion of the recovery, including treble damages, and attributable overcharges that were paid by the assignor but were not paid by the public body as a part of the bid price, less the expenses incurred in obtaining that portion of the recovery. On demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under Government Code Sections 4550-4554 if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

D. If the bidder is awarded the Agreement and refuses to sign the Agreement presented for signature within the time and manner required, the bidder will be liable to CAL FIRE for actual damages resulting to CAL FIRE therefrom or 10 percent (10%) of the amount bid, whichever is less.

E. Loss Leader usage is prohibited in this solicitation: It is unlawful for any person engaged in business within this State to sell or use any article or product as a "loss leader" as defined in California Business and Professions Code Section 17030. "Loss Leader" means any article or product sold at less than cost: a) where the purpose is to induce, promote or encourage the purchase of other merchandise; or b) where the effect is a tendency or capacity to mislead or deceive purchasers of prospective purchasers; or c) where the effect is to divert trade from or otherwise injure competitors.

F. No oral understanding or agreement shall be binding on either party.

25. Generative Artificial Intelligence (GenAI)

A. The State of California seeks to realize the potential benefits of GenAI, through the development and deployment of GenAI tools, while balancing the risks of these new technologies.

B. Bidder / Offeror must notify the State in writing if it: (1) intends to provide GenAI as a deliverable to the State; or (2), intends to utilize GenAI, including GenAI from third parties, to complete all or a portion of any deliverable that materially impacts: (i) functionality of a State system, (ii) risk to the State, or (iii) Contract performance. For avoidance of doubt, the term "materially impacts" shall have the meaning set forth in State Administrative Manual (SAM) § 4986.2 Definitions for GenAI.

C. Failure to report GenAI to the State may result in disqualification. The State reserves the right to seek any and all relief to which it may be entitled to as a result of such non-disclosure.

D. Upon notification by a Bidder / Offeror of GenAI as required, the State reserves the right to incorporate GenAI Special Provisions into the final contract or reject bids/offers that present an unacceptable level of risk to the State.

E. Government Code 11549.64 defines "Generative Artificial Intelligence (GenAI)" as an artificial intelligence system that can generate derived synthetic content, including text, images, video, and audio that emulates the structure and characteristics of the system's training data.

D) Special Programs

1. Disabled Veteran Business Enterprise (DVBE) Program Requirement

A. DVBE Participation Program with **No** Goals:

A DVBE goal is not required, but DVBE participation is encouraged, and a DVBE incentive will apply to this IFB as described below.

B. DVBE Incentive Program

1)The DVBE Incentive Program applies to this solicitation. It is separate from the DVBE Participation Program and was established in Military and Veterans Code Sections 999 et seq., and Title 2, California of Regulations, Sections 1896.99 (2 CCR Section 1896.99) et seq., to encourage bidders to partner with DVBE subcontractors. A dollar cap of \$100,000 is set for all combined incentives and preferences. The incentive is used only for evaluation purposes to arrive at the successful bidder and does not alter the amounts of the actual bid. Any responsive and responsible bidder with the confirmed DVBE participation per the Tables in **paragraph 3)** below is eligible to receive the incentive. Bidders who are not responsive and responsible regardless of the amount of DVBE participation are not eligible to receive the incentive.

2)CAL FIRE will apply an incentive to bids proposing the utilization of DGS certified DVBE firms identified on the **Bidder Declaration (GSPD-05-105)**. Information provided on the **GSPD-05-105** shall be verified by CAL FIRE prior to the award of the Agreement. Contractor shall also submit **Quotes from SB/DVBE Subcontractor, Attachment 13**, the incentive amount is equal to a percentage of the lowest responsive and responsible bid based on the amount of DVBE participation in the bid being evaluated per the Tables below.

3)Tables for IFB (Low Price Method)

Goal Not Required

Verified DVBE Participation	DVBE Incentive Amount
5% or more	5%
4%-4.99%	4%
3%-3.99%	3%
2%-2.99%	2%
0.1%-1.99%	1%

4)When applying the DVBE Incentive, an NSB shall not displace an award to a DGS Certified Small Business.

5)Additional information: <https://www.dgs.ca.gov/OBAS/Resources/Page-Content/OBAS-Resources-List-Folder/DGS-Contracting-Commitment-with-Small-Businesses-DVBEs>.

2. Small Business (SB) or Microbusiness (MB) Preference

A. Government Code Section 14835 et seq. requires that a five percent (5%) preference be given to contractors who qualify as a certified SB or MB. References to a SB shall also include MB. The rules and regulations of this law, including the definition of a SB for the delivery of services, are contained in Title 2, California Code of Regulations, Section 1896 (2 CCR Section 1896) et seq.

B. To claim the SB preference, your firm must have its principal place of business located in California and be certified by the California Department of General Services (DGS), Office of Small Business and DVBE Services (OSDS). The preference amount may not exceed fifty thousand dollars (\$50,000) for any bid. If prospective Contractor is claiming the five percent (5%) SB preference, complete Section 16 of the **Bid/Bidder Certification Sheet Attachment 2**.

C. Pursuant to Government Code Section 14838 and 2 CCR Section 1896, if a bidder is not a certified SB, but wishes to be eligible for the five percent (5%) non-small business (NSB) preference, the bidder must

subcontract at least twenty five percent (25%) of its net bid price to one or more certified SBs. If bidder is claiming the five percent (5%) NSB preference, complete Section 17 of the **Bid/Bidder Certification Sheet, Attachment 2**, and **Bidder Declaration, GSPD-05-105**, which can be downloaded at <https://www.documents.dgs.ca.gov/dgs/fmc/gspd/gspd05-105.pdf>. Bidder shall list the names of all certified SB firms being claimed for credit on the GSPD-05-105 form. For each certified SB subcontractor listed, the bidder shall submit a copy of the quotes from each SB (on the SB's company letterhead) as **Quotes from SB/DVBE Subcontractor, Attachment 13**,

- D. This preference shall not be awarded to a noncompliant bidder and shall not be used to achieve any applicable minimum requirements.
- E. Certified SB bidder(s) shall have precedence over NSB bidders in the application of SB preference(s).
- F. SB preferences may not be applied to any bid deemed non-responsive with the solicitation instructions or from a non-responsible bidder.
- G. Questions regarding the certification approval process or SB program should be directed to OSDS at (800) 559-5529 or (916) 375-4940. For 24-Hour Recording and Mail Request, call (916) 322-5060, or email: osdshelp@dgs.ca.gov.
- H. Additional references are at <https://www.dgs.ca.gov/OBAS/Resources/Page-Content/OBAS-Resources-List-Folder/DGS-Contracting-Commitment-with-Small-Businesses-DVBES>.

3. Commercially Useful Function

It is the law. All California-certified Small Businesses (SB) and Disabled Veteran Business Enterprise (DVBEs) doing business with the state must perform a Commercially Useful Function (CUF). Performing CUF is a critical requirement for all California-certified firms - SB and DVBE - that do business with the state (Government Code Section 14837 and Military and Veterans Code Section 999).

More information can be found on Department of General Services website:
<https://www.dgs.ca.gov/PD/Resources/Page-Content/Procurement-Division-Resources-List-Folder/Commercially-Useful-Function-for-Certified-Firms>

4. CAL FIRE Advocates

CAL FIRE Small Business and Disabled Veteran Business Enterprise Advocates are available to answer questions regarding the SB/DVBE Programs and Incentives and to help identify possible SB/DVBE vendors.

CAL FIRE ADVOCATES: sbdvbe.advocate@fire.ca.gov

ATTACHMENT 1

Bidder's Company Name:

REQUIRED ATTACHMENT CHECKLIST

A complete bid or bid package will consist of the items identified below.

Complete this checklist to confirm the items in your bid. Place a check mark or "X" next to each item that you are submitting to the State. For your bid to be responsive, all required attachments must be returned. This checklist should be returned with your bid package also.

<u>Attachment</u>	<u>Attachment Name/Description</u>
_____ Attachment 1	Required Attachment Checklist
_____ Attachment 2	Bid/Bidder Certification Sheet
_____ Attachment 3	Rate Sheet
_____ Attachment 4	Disabled Veteran Business Enterprise Declarations (STD 843) * https://www.documents.dgs.ca.gov/dgs/fmc/gspd/pd_843.pdf
_____ Attachment 5	Bidder Declaration (GSPD-05-105) https://www.documents.dgs.ca.gov/dgs/fmc/gspd/pd/gspd05-105.pdf
_____ Attachment 6	DARFUR Contracting Act (CAL FIRE-720)
_____ Attachment 7	Iran Contracting Act (DGS PD 3)* https://www.documents.dgs.ca.gov/dgs/FMC/GS/PD/PD_3.pdf
_____ Attachment 8	Payee Data Record (STD 204) http://www.documents.dgs.ca.gov/dgs/fmc/pdf/std204.pdf
_____ Attachment 9	Contractor Certification Clauses (CCC 04/2017) https://www.dgs.ca.gov/-/media/Divisions/OLS/Resources/CCC-042017.pdf?la=en&hash=4DE3E4DC414511AE378794200BA43EBF91C758EE
_____ Attachment 10	California Civil Rights Laws Attachment
_____ Attachment 11	Non-Collusion for Public Works
_____ Attachment 12	Quotes from SB/DVBE Subcontractors*
_____ Attachment 13	Bidder's Bond (Signed and Notarized)*
_____ Additional Required Information:	1. The Prime Bidder must be either an individual or firm currently licensed to do business in California and proof of such in the form of a current and valid Business License or California Secretary of State registration for the business shall be provided. 2. The Prime Bidder must have a current and valid Business License or Incorporation papers for their respective State showing that their company is in good standing in that state, if the Prime Bidder's base of operation is located outside the State of California and provide proof of such. 3. The Prime bidder and subcontractor(s) (if applicable) must have a valid C10-Electrical Contractor license issued by the California State Licensing Board (CSLB) and must provide proof at the time of bid submittal. 4. The Prime Bidder and subcontractor(s) (if applicable) must be registered with the Department of Industrial Relations (DIR) Public Works Contractor Registration and must provide proof at the time of bid submittal.

ATTACHMENT 1

5. Contractor must provide a Bidder's Bond executed by an admitted surety insurer and made payable to the State of California, or a cashier's check or money order payable to the State of California in an amount equal to ten percent (10%) of the total bid price, if the bid price is \$484,000.00 or higher.

***If applicable**

ATTACHMENT 2
BID/BIDDER CERTIFICATION SHEET

This Bid/Bidder Certification Sheet must be signed and returned along with all the "required attachments" as an entire package in duplicate with original signatures/electronic signature. The bid must be transmitted in accordance with IFB instructions.

Do not return IFB Sections A through E or the "Sample Standard Agreement" at the end of this IFB.

- A. Our all-inclusive bid is submitted as detailed in **Attachment 3, Rate Sheet**.
- B. All required attachments are included with this certification sheet.
- C. I have read and understand the DVBE participation requirements and have included documentation demonstrating that I have met the participation goals.
- D. The signature affixed hereon and dated certifies compliance with all the requirements of this bid document. The signature below authorizes the verification of this certification.

An Unsigned Bid/Bidder Certification Sheet May Be Cause For Rejection

1. Company Name	2. Telephone Number () ()	2a. Fax Number () ()
3. Address		
E-mail Address:		
5. ☐ Partnership		
Indicate your organization type:	4. ☐ Sole Proprietorship	
6. ☐ Corporation	6a. ☐ L.L.C. Limited Liability Corporation	
Indicate the applicable employee and/or corporation number:		
7. Federal Employee ID No. (FEIN)	8. California Corporation No.	
9. Indicate applicable license and/or certification information:		
10. Bidder's Name (Print)		11. Title
12. Signature		13. Date
14. Are you certified with the Department of General Services, Office of Small Business and DVBE Certification as: a. California Small Business Enterprise Yes ☐ No ☐ If yes, enter certification number: _____ a. Disabled Veteran Business Enterprise Yes ☐ No ☐ If yes, enter certification number: _____ NOTE: A copy of your Certification is required to be included if either of the above items is checked "Yes". Date application was submitted to OSBCR, if an application is pending:		

ATTACHMENT 2

Completion Instructions for Bid/Bidder Certification Sheet

Complete the numbered items on the
 Bid/Bidder Certification Sheet by following the instructions below.

Item Numbers	Instructions
1, 2, 2a, 3	Must be completed. These items are self-explanatory.
4	Check if your firm is a sole proprietorship. A sole proprietorship is a form of business in which one (1) person owns all the assets of the business in contrast to a partnership and corporation. The sole proprietor is solely liable for all the debts of the business.
5	Check if your firm is a partnership. A partnership is a voluntary agreement between two (2) or more competent persons to place their money, effects, labor, and skill, or some or all of them in lawful commerce or business, with the understanding that there shall be a proportional sharing of the profits and losses between them. An association of two (2) or more persons to carry on, as co-owners, a business for profit.
6, 6a	Check if your firm is a corporation. A corporation is an artificial person or legal entity created by or under the authority of the laws of a state or nation, composed, in some rare instances, of a single person and his successors, being the incumbents of a particular office, but ordinarily consisting of an association of numerous individuals. Or a Limited Liability Corporation.
7	Enter your federal employee tax identification number.
8	Enter your corporation number assigned by the California Secretary of State's Office. This information is used for checking if a corporation is in good standing and qualified to conduct business in California.
9	Complete, if applicable, by indicating the type of license and/or certification that your firm possesses and that is required for the type of services being procured.
10, 11, 12, 13	Must be completed. These items are self-explanatory.
14	If certified as a California Small Business, place a check in the "Yes" box, and enter your certification number on the line. If certified as a Disabled Veterans Business Enterprise, place a check in the "Yes" box and enter your service code on the line. If you are not certified to one (1) or both, place a check in the "No" box. If your certification is pending, enter the date your application was submitted to OSBCR.

ATTACHMENT 3

Bidder's Company Name:

RATE SHEET

Item No.	Description	(A) Labor*	(B) Materials/Equipment**	Unit of Measure	Total (A+B)
1	Mobilization and Demobilization	\$	\$	Lump Sum	\$
2	Permitting	\$	\$	Lump Sum	\$
3	Site Preparation, Demolition, Trenching, Excavation, and Concrete Work	\$	\$	Lump Sum	\$
4	1200A Metered Switchboard with Integrated ATS	\$	\$	Each	\$
5	1200A Manual Transfer Switch with CamLok Connections	\$	\$	Each	\$
6	150kW Stationary Diesel Generator, Enclosure, Fuel Tank, and Accessories	\$	\$	Each	\$
7	150kW Portable Generator Connection	\$	\$	Each	\$
8	200A Metered Panelboard with Integrated ATS	\$	\$	Each	\$
9	200A Manual Transfer Switch with Cam-Lok Connections	\$	\$	Each	\$
10	30kW Stationary Diesel Generator, Enclosure, Fuel Tank, and Accessories	\$	\$	Each	\$

11	30kW Portable Generator Connection	\$	\$	Each	\$
12	200A Distribution Panelboard	\$	\$	Each	\$
13	Electrical Distribution (Conduits, Conductors, Handholes, Communications, Controls, and Equipment Connections)	\$	\$	Lump Sum	\$
14	Testing, Commissioning, Start-Up, Training, and Closeout Documentation	\$	\$	Lump Sum	\$
Subtotal (Sum of Items 1-14)					
10% Contingency (10% of Subtotal)					
Total Cost (Subtotal + 10% Contingency)*					

*All-Inclusive Cost for Services.

** In accordance with Exhibit B, Section 5. Materials/Supplies

Submitted by: _____ Date: _____

Contact Name / Title:	
Company Name:	
Company Address:	
Telephone Number:	
Fax Number:	
E-Mail Address:	

Estimated quantities are not guaranteed and is not binding on the contracting agency. The Total Costs indicated above will be used solely for computing the cost as a fair and equitable formula to determine the low bidder and is not binding on the contracting agency. However, the actual costs quoted above by the bidder shall be binding for the term of the Agreement. Small Business and Disabled Veteran Business Enterprise incentives will also be applied to determine the lowest bid. CAL FIRE reserves the right to correct and revise calculation errors made by the bidder.

In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit

price shall prevail.

Please do not alter, modify, or change this bid proposal sheet. Any alterations, modifications, or changes to this bid proposal sheet will be grounds to reject the bid.

Each line item must be bid. Please do not leave any unit price column blank or this bid proposal sheet will be disqualified from competition for contract award.

ATTACHMENT 4

(if applicable)

DISABLED VETERAN BUSINESS ENTERPRISE DECLARATIONS (STD 843)

Bidders who are disabled veteran (DV) owner(s) and DV manager(s) of a Disabled Veteran Business Enterprise must complete Disabled Veteran Business Enterprise Declarations (STD 843) when a DVBE Contractor or subcontractor will provide materials, supplies, services or equipment and include it with the bid response.

The STD 843 Disabled Veteran Business Enterprise Declarations form can be found at:

https://www.documents.dgs.ca.gov/dgs/fmc/gp/pd/pd_843.pdf

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ATTACHMENT 5

BIDDER DECLARATION FORM (GSPD-05-105)

All bidders must complete the Bidder Declaration Form (GSPD-05-105) and include it with the bid response.

The Bidder Declaration Form can be found at:

<https://www.documents.dgs.ca.gov/dgs/fmc/gspd/gspd05-105.pdf>

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ATTACHMENT 6

DARFUR CONTRACTING ACT VENDOR CERTIFICATION

Pursuant to Public Contract Code Section 10478, if a bidder or proposer currently, or within the previous three (3) years, has had business activities or other operations outside of the United States, it must certify that it is not a **“scrutinized company”** as defined in Public Contract Code Section 10476 (**see attached definition**).

Therefore, to be eligible to submit a bid or proposal, please complete the company/vendor information and one of the three following clauses (**NOTE:** Clause #1 requires initials only; Clause #2 requires initials only; Clause #3 requires initials and a certification signature):

DATE	FEDERAL ID NUMBER
PRINTED COMPANY / VENDOR NAME	
PRINTED NAME <u>AND</u> TITLE OF AUTHORIZED PERSON INITIALING AN OPTION BELOW	

Complete ONLY ONE of the following:

1.
Initials only We do not currently have, and have not had within the previous three (3) years, business activities or other operations outside of the United States.

OR
2.
Initials only We are a *scrutinized company* as defined in Public Contract Code Section 10476, but we have received written permission from the Department of General Services (DGS) to submit a bid or proposal pursuant to Public Contract Code Section 10477(b). **A copy of the written permission from DGS is included with our bid or proposal.**

OR
3.
Initials +
certification below We currently have, or we have had within the previous three (3) years, business activities or other operations outside of the United States, but we certify below that we are not a *scrutinized company* as defined in Public Contract Code Section 10476.

CERTIFICATION for #3

I, the official named below, CERTIFY UNDER PENALTY OF PERJURY that I am duly authorized to legally bind the prospective proposer/bidder to the clause listed above in #3. This certification is made under the laws of the State of California.

BY (AUTHORIZED SIGNATURE)	
PRINTED NAME <u>AND</u> TITLE OF AUTHORIZED PERSON SIGNING	
DATE EXECUTED	EXECUTED IN THE COUNTY AND STATE OF



ATTACHMENT 6

DEFINITION of SCRUTINIZED COMPANY PUBLIC CONTRACT CODE SECTION 10476

10476. As used in this article, the following definition applies:

"Scrutinized company" means a company in Sudan that is involved in power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, but **excludes a company that can demonstrate any of the following:**

- (a) Its business operations are conducted under contract directly and exclusively with the regional government of southern Sudan.
- (b) Its business operations are conducted under a license from the Office of Foreign Assets Control or are expressly exempted under federal law from the requirement to be conducted under such a license.
- (c) Its business operations consist of providing goods or services to marginalized populations of Sudan.
- (d) Its business operations exclusively consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization.
- (e) Its business operations consist of providing goods or services that are used only to promote health or education.
- (f) Its business operations with the Government of Sudan will be voluntarily suspended for the entire duration of the contract for goods or services for which they have bid on, or submitted a proposal for, a contract with a state agency.
- (g) It has adopted, publicized, and is implementing a formal plan to cease business operations within one year and to refrain from conducting any new business operations.

ATTACHMENT 7

(if applicable)

IRAN CONTRACTING ACT CERTIFICATION

All bidders must complete the Iran Contracting Act Certification (DGS PD 3) and include it with the bid response.

Iran Contracting Act Certification (DGS PD 3) Form can be found at:

https://www.documents.dgs.ca.gov/dgs/FMC/GS/PD/PD_3.pdf.

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ATTACHMENT 8

PAYEE DATA RECORD (STD 204)

All bidders must complete the Payee Data Record (STD 204) and include it with the bid response.

The Payee Data Record (STD 204) is available at the following website:

<http://www.documents.dgs.ca.gov/dgs/fmc/pdf/std204.pdf>

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ATTACHMENT 9

CONTRACTOR CERTIFICATION CLAUSES (CCC 04/2017)

All bidders must complete the Contractor Certification Clauses form (CCC 04/2017) and include it with the bid response.

The Contractor Certification Clauses Form (CCC 04/2017) is available at the following website:

<https://www.dgs.ca.gov/-/media/Divisions/OLS/Resources/CCC-042017.pdf?la=en&hash=4DE3E4DC414511AE378794200BA43EBF91C758EE>

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ATTACHMENT 10

CALIFORNIA CIVIL RIGHTS LAWS ATTACHMENT

All bidders must complete the California Civil Rights Laws Attachment and include it with the bid response.

The California Civil Rights Laws Attachment is available at the following website:

<https://www.documents.dgs.ca.gov/dgs/FMC/DGS/OLS004.pdf>

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ATTACHMENT 11

Non-Collusion for Public Works

**NON-COLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND
SUBMITTED WITH BID FOR PUBLIC WORKS
(Rev 04/22)**

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid.

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

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

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on (date), at (city), (state).

Signed: _____
Print/Type Name

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ATTACHMENT 12

(if applicable)

QUOTES FROM SB/DVBE SUBCONTRACTORS

All bidders must complete the Quotes from SB/DVBE Subcontractors and include it with the bid response.

Quotes should be on Subcontractor letterhead.

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ATTACHMENT 13

(if applicable)

Bidder's Bond

Contractor must provide a Bidder's Bond executed by an admitted surety insurer and made payable to the State of California if bid price is \$484,000.00 or higher.

BIDDER'S BOND		
STATE OF CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION		
KNOW ALL MEN BY THESE PRESENTS:		
That we,		
_____ , as Principal,		
and _____		
as Surety, are held and firmly bound unto the State of California, hereinafter called the State, in the penal sum of ten percent (10%) of the total amount of the bid of the Principal above named, submitted by said Principal to the State of California, Department of Forestry and Fire Protection, 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 and successors, jointly and severally, firmly by these presents.		
THE CONDITION of this obligation is such that:		
WHEREAS , the Principal has submitted the above-mentioned bid to the State of California, Department of Forestry and Fire Protection, for certain construction specifically described as follows, for which bids are to be opened at _____		
(Insert place where bids will be opened) on _____ (Insert date of bid opening)		
for _____		
<i>(Copy here the exact description of work, including location, as it appears on the proposal)</i>		
NOW, THEREFORE , If the aforesaid Principal is awarded the contract and, within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files the two bonds with the Department, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.		
In the event suit is brought upon this bond by the Obligor and judgment is recovered, the Surety shall pay all costs incurred by the Obligor in such suit, including a reasonable attorney's fee to be fixed by the court.		
IN WITNESS WHEREOF , We have hereunto set our hands and seals on this _____ day of _____, 20____.		
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.	_____ (SEAL)	
	_____ (SEAL)	
	_____ (SEAL)	
	Name of Principal and Address for Service	
	By _____ Contractor Signature	
	_____ (SEAL)	
	_____ (SEAL)	
	_____ (SEAL)	
Name of Surety and Address for Service		
	By _____ Attorney-in-Fact Signature	
NOTE: Signatures of those executing for the Surety must be properly acknowledged.		
CERTIFICATE OF ACKNOWLEDGMENT		
STATE OF CALIFORNIA		
COUNTY OF _____ ss		
On this _____ day of _____ in the year of 20____ before me, a notary public in and for the county and state aforesaid, personally appeared, _____ and proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and proved to me on the basis of satisfactory evidence to be the attorney-in-fact of _____ and acknowledged to me that he/she subscribed the name of the said company thereto as surety, and his/her own name as attorney-in-fact.		
(SEAL)		
_____ Notary Public		

SAMPLE AGREEMENT

F) Proposed Form of Agreement

The following pages represent a sample of the agreement that will be awarded, if any, from this IFB. Please review it carefully and present any questions in writing to the contact person identified on the cover letter for this IFB.

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER

2CA08024

PURCHASING AUTHORITY NUMBER (If Applicable)

1. This Agreement is entered into between the Contracting Agency and the Contractor named below:

CONTRACTING AGENCY NAME

California Department of Forestry and Fire Protection (CAL FIRE)

CONTRACTOR NAME

To Be Determined

2. The term of this Agreement is:

START DATE

October 01, 2026 (estimate), or upon approval by CAL FIRE, whichever is later

THROUGH END DATE

September 30, 2027 (estimate)

3. The maximum amount of this Agreement is:

To Be Determined

4. The parties agree to comply with the terms and conditions of the following exhibits, which are by this reference made a part of the Agreement.

Exhibits	Title	Pages
Exhibit A	Scope of Work	2
Exhibit B	Budget Detail and Payment Provisions	5
Exhibit C *	General Terms and Conditions (GTC 02/2025)	-
+ - Exhibit D	Special Terms and Conditions	4
+ - Exhibit E	Additional Provisions	9
+ - Attachment 1	Rate Sheet (to be attached upon award)	1
+ - Attachment 2	Bidder Declaration - GSPD -05-105 (to be attached upon award)	1
+ - Attachment 3	Site Plans and Specifications	18

Items shown with an asterisk (*), are hereby incorporated by reference and made part of this agreement as if attached hereto.

These documents can be viewed at <https://www.dgs.ca.gov/OLS/Resources>

IN WITNESS WHEREOF, THIS AGREEMENT HAS BEEN EXECUTED BY THE PARTIES HERETO.

CONTRACTOR

CONTRACTOR NAME (if other than an individual, state whether a corporation, partnership, etc.)

To Be Determined

CONTRACTOR BUSINESS ADDRESS

CITY

STATE

ZIP

PRINTED NAME OF PERSON SIGNING

TITLE

CONTRACTOR AUTHORIZED SIGNATURE

DATE SIGNED

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER

2CA08024

PURCHASING AUTHORITY NUMBER (If Applicable)

STATE OF CALIFORNIA

CONTRACTING AGENCY NAME

California Department of Forestry and Fire Protection (CAL FIRE)

CONTRACTING AGENCY ADDRESS

P.O. Box 944246

CITY

Sacramento

STATE

CA

ZIP

94244

PRINTED NAME OF PERSON SIGNING

TITLE

CONTRACTING AGENCY AUTHORIZED SIGNATURE

DATE SIGNED

CALIFORNIA DEPARTMENT OF GENERAL SERVICES APPROVAL

EXEMPTION (If Applicable)

EXHIBIT A
(Scope of Work)

SCOPE OF WORK

1. Contractor agrees to provide to the California Department of Forestry and Fire Protection (CAL FIRE) **Happy Valley Fire Center Install Generator, Automatic Transfer Switch, and CamLok** services, as described herein:

Contractor shall provide all materials, labor, equipment, tools, permits, taxes, transportation, and fees to install generator, automatic transfer switch, and CamLok at Happy Valley Fire Center, as described in **Exhibit A, Scope of Work**.

Services are needed to provide an emergency backup power and maintain critical operations at the CAL FIRE Happy Valley Fire Center during power outages.

2. CAL FIRE has the right to extend this agreement for one (1) year by amendment at the same terms, conditions, and costs.
3. Subcontracting is permitted under this Agreement if subcontractors are included on the **Bidder Declaration (GSPD-05-105), Attachment 2**.
4. The services shall be performed at 855 Canyon Road, Redding, CA 96001.
5. Any reference to CAL FIRE Project Representative shall also include their designee.
6. This Agreement will commence on **October 01, 2026 (estimate)**, or upon approval by CAL FIRE, whichever is later, and no work shall begin before that time. This Agreement is of no effect unless approved by DGS. Contractor shall not receive payment for work performed prior to approval of the Agreement and before receipt of notice to proceed by CAL FIRE Project Representative. This Agreement will expire on **September 30, 2027 (estimate)**. The services shall be provided during normal working hours, Monday through Friday, 7:00 a.m. to 5:00 p.m., except State holidays. The parties may amend this Agreement as permitted by law.
7. The Project Representatives during the term of this agreement will be:

California Department of Forestry and Fire Protection (CAL FIRE)	Contractor: TBD
Name:	Project Representative:
Address: (Street Address, City State, Zip Code)	Address: (Street Address, City State, Zip Code)
Phone:	Phone:
Email:	Email:

8. **Detailed Scope of Work**

Contractor shall complete the following tasks for Happy Valley Fire Center Install Generator, Automatic Transfer Switch, and CamLok project, in accordance with **Attachment 3, Site Plans and Specifications**, manufacturer recommendations and specifications, industry standards, and all applicable building codes.

- A. Contractor shall furnish all labor, materials, equipment, and supervision necessary to complete the project in a timely manner and in accordance with all CAL FIRE regulations and requirements.
- B. Contractor shall furnish bathrooms with wash stations, water and shaded break area for their employees and any subcontractor employees (if applicable).
- C. Contractor shall perform all the work according to the information given on **Attachment 3 Site Plans and Specifications, TO.1 Scope of Work, General Notes, New service requirements, and Applicable codes and standards**.
- D. Contractor shall supply all equipment required for digging, trenching, lifting, cleaning, etc. to complete project as it is shown on the plans in **Attachment 3, Site Plans and Specifications**.

EXHIBIT A
(Scope of Work)

- E. Contractor shall have all the licenses and certifications required to perform this project.
- F. Contractor shall comply with all required state and federal regulations and industry standards.
- G. Contractor shall have all pick-up and deliveries of equipment and material between the hours of 7:00 a.m. – 5:00 p.m.
- H. Contractor shall make sure the job site is left in a clean and orderly manner at the end of each workday.
- I. Contractor shall schedule with CAL FIRE Project Representative before blocking paths of travel, disconnecting any utilities or anything that may interfere with CAL FIRE being able to perform their duties to the community.
- J. Contractor shall get approval from the CAL FIRE Engineer before making any changes to the plan set or specifications.
- K. Contractor shall work with CAL FIRE to keep power and utilities on as much as possible to allow CAL FIRE to perform their duties to the community.
- L. Contractor shall perform a comprehensive system test to confirm all equipment operates within specified parameters.
- M. Contractor shall ensure the CAL FIRE State Fire Marshall is present for Generator start-up test.
- N. CAL FIRE will provide access to power and water as needed.

9. Preservation of CAL FIRE Property

- A. Contractor shall ensure that only qualified and competent employee(s) are permitted on the job site and that the work shall be safely performed by the highest industry standards. Contractor shall take all the necessary precautions to prevent injury or hazard to CAL FIRE employee(s), invitee(s) and /or the general public.
- B. Contractor shall conduct its operation as to avoid damage to the property of CAL FIRE or to adjacent property. If any property is damaged by reason of the Contractor's operation(s), such property shall be replaced or restored at Contractor's sole expense and to the satisfaction of CAL FIRE and /or the property owner.
- C. Contractor shall comply with all applicable federal, state, county, city, and municipal laws, ordinances, rules, and regulations which in any manner affect those engaged or employed in the work to be performed.
- D. Contractor shall avoid causing unreasonable inconvenience to any person(s) doing business on CAL FIRE property. In the event Contractor's operation creates a condition hazardous to CAL FIRE property occupants or the general public, Contractor shall provide warning signs alerting to any dangerous conditions at Contractor's own expense and with no cost to CAL FIRE.
- E. Contractor shall obtain and pay all permits and licenses, registrations and certificated required by local's ordinances.
- F. Contractor shall only provide one service staff (employee) to report for each service call unless CAL FIRE Contract Manager approved in advance for an additional service staff or employee.

10. Work Site Clean-up

- A. Contractor shall own and assume all responsibility for all litter, waste, debris, and similar materials arising from or produced by the work performed under this Agreement. Contractor shall clean and keep the area in orderly, safe, and clean condition, including, but not limited to spills and smudges. If the work site is not left in a clean and orderly condition, Contractor shall be called back to correct the condition at no extra cost to CAL FIRE.
- B. Contractor shall promptly remove such litter, waste, debris, and other materials produced during this work and legally dispose of them at no additional cost to CAL FIRE. No such litter, waste, debris, and other materials shall be deposited in any CAL FIRE dumpsters without advance written permission of CAL FIRE Contract Manager.
- C. Such litter, waste, debris, and other materials is not expected to include hazardous waste. However, if hazardous waste is encountered, Contractor will notify the CAL FIRE Contract Manager. CAL FIRE Contract Manger may direct that to the CAL FIRE hazardous waste removal contractor process and dispose of the hazardous waste.

EXHIBIT B
(Budget Detail and Payment Provisions)

BUDGET DETAIL AND PAYMENT PROVISIONS

1. Invoicing and Payment

- A. For services satisfactorily completed in accordance with the terms and conditions stated herein, and upon receipt and approval of the invoice(s), the State agrees to compensate the Contractor for actual expenditures incurred in accordance with the specified rates attached hereto as **Attachment 1 – Rate Sheet** and made a part of this Agreement.
- B. Contractor shall submit invoice(s) in accordance with the following Item Numbers listed on **Attachment 1 – Rate Sheet**:
- 1) Item Number 1 – 14 Generator Installation Services: Contractor will be paid a lump sum, in arrears, in full payment for all work and services performed under this Agreement. Contractor shall submit invoice(s) identifying the applicable Item Number(s) from **Attachment 1 – Rate Sheet for the completed work**.
 - 2) Contingency Work: If contingency work is authorized in writing by the CAL FIRE Project Representative, the Contractor shall submit a separate invoice identifying the authorized contingency work performed. Payment shall not exceed the approved amount.
 - 3) Contractor shall submit, in arrears, not more frequently than once a month, and no less than quarterly, an invoice to CAL FIRE for cost incurred pursuant to the agreement. In addition, each invoice shall contain the following information:
- C. Each Invoice shall include:
- 1) The agreement number **2CA08024**.
 - 2) The dates or time-period which the invoiced costs were incurred.
 - 3) Description of service, quantity, rate, and total for the current invoice.
 - 4) Certified Small Business or DVBE #, if applicable.
- D. Invoice(s) shall be submitted to:
- California Department of Forestry and Fire Protection
Attention: **TBD**
Street Address/P.O. Box
City, State, Zip
Phone Number
Email
- E. Contractor shall submit a copy of the Prime Contractor's [DVBE Subcontracting Report form \(STD 817\)](#) for verification by CAL FIRE Project Representative with each invoice submitted at Fiscal Year End (June 30th) and with final invoice.
- F. Contractor agrees to certify on Prime Contractor's Certification DVBE Subcontractor Report, **Form STD 817**, that DVBE subcontractor participation under this agreement is in compliance with the goals specified at the time of award of contract or with any subsequent amendment. If for this Contract the Contractor made a commitment to achieve the DVBE participation goal, the Department will withhold **\$10,000.00** from the final payment, or the full final payment if less than **\$10,000.00**, until the Contractor complies with the certification requirements of Military and Veterans Code Section 999.5. A Contractor that fails to comply with the certification requirement shall, after notice, be allowed to cure the defect. Notwithstanding any other law, if, after at least 15 calendar days but not more than 30 calendar days from the date of notice, the prime contractor refuses to comply with the certification requirements, the department shall permanently deduct **\$10,000.00** from the final payment, or the full payment if less than **\$10,000.00**. The Contractor shall provide proof of payment for the work performed by the DVBE subcontractor(s) upon Department's request.

EXHIBIT B
(Budget Detail and Payment Provisions)

2. Budget Contingency Clause

- A. It is mutually agreed that if the Budget Act of the current year and/or any subsequent years covered under this Agreement does not appropriate sufficient funds for the program, this Agreement shall be of no further force and effect. In this event, the State shall have no liability to pay any funds whatsoever to Contractor or to furnish any other considerations under this Agreement and Contractor shall not be obligated to perform any provisions of this Agreement.
- B. If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of this program, the State shall have the option to either cancel this Agreement with no liability occurring to the State or offer an agreement amendment to Contractor to reflect the reduced amount.

3. Prompt Payment Clause

- A. Payment will be made in accordance with, and within the time specified in, Government Code Chapter 4.5, commencing with Section 927. In the event of an emergency, as defined in section 927.11, late payment penalties may not apply. Specific to CAL FIRE, if an invoice from a business under contract with CAL FIRE becomes subject to late payment penalties during the annually declared fire season, then the required payment approval date shall extend 30 calendar days beyond the initial 45-day period, except in the case of a contract with a certified small business, a certified Disabled Veteran Business Enterprise, a non-profit organization, or a non-profit public benefit corporation.
- B. Pursuant to Public Contract Code Section 10262, Contractor shall pay its Subcontractor(s) within seven (7) calendar days from receipt of each payment made to Contractor by CAL FIRE.
- C. Failure of Contractor adhering to Public Contract Code Section 10262 may result in termination of this Agreement per Public Contract Code Section 10253 and disciplinary action by the Contractors State License Board may be implemented.
- D. Any subcontract entered into as a result of this Agreement shall contain all the provisions of this clause.

4. Cost Limitation

- A. Total amount of this Agreement shall not exceed **\$TBD**.
- B. It is understood and agreed that this total is an estimate, and that CAL FIRE will pay only for those services actually rendered as authorized by CAL FIRE Project Representative up to the total amount set forth in **Section 4A**, above.

5. Materials/ Supplies

Contractor will be reimbursed for the actual cost of materials/supplies purchased to be consumed or installed at the work site in performance of the Agreement (including applicable sales tax), without additional allowance for markup. Contractor costs associated with the purchase and installation of materials/supplies are included in Contractor's hourly rate for services that include wages, overhead, general, and administrative expenses and profit. Cost of materials/supplies are to be substantiated by a copy of the appropriately signed original invoice verifying the actual cost and delivery of the materials/supplies of CAL FIRE. Total expenditures for materials/supplies shall not exceed the amount set forth in the line item for parts in **Attachment 1, Rate Sheet**.

6. Costs Included in Bid Rates

- A. The cost of employer payments to or on behalf of employees, subsistence, travel, compensation insurance premiums, unemployment contributions, social security taxes, Agreement bond premiums, and any other taxes or assessments including sales and use taxes required by law or otherwise shall be included in the Agreement rates and no additional allowance will be made thereof, unless separate payment provision should specifically so provide.
- B. Contractor shall make travel and subsistence payments to each worker in compliance with Labor Code Sections 1773.1 and 1773.9. Travel and subsistence requirements are available on the of Department of Industrial Relations (DIR) website at <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>.

EXHIBIT B
(Budget Detail and Payment Provisions)

7. Payroll Records

- A. Contractor and each Subcontractor shall comply with the following provisions. Contractor shall be responsible for compliance by its Subcontractors.
- 1) Each Contractor and Subcontractor shall keep accurate payroll records and supporting documents as mandated by Section 1776 of the California Labor Code and as defined in Section 16000 of Title 8 of the California Code of Regulations, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by Contractor or Subcontractor in connection with the public work. Each payroll record shall contain or be verified by a written declaration that it is made under penalty of perjury, stating both of the following:
 - a) The information contained in the payroll record is true and correct.
 - b) The employer has complied with the requirements of Labor Code Sections 1771, 1811, and 1815 for any work performed by its employees on the public works project.
 - 2) The payroll records enumerated under **paragraph 1)** above, shall be certified. The certified payrolls and records related to employee wages, fringe benefits, payroll tax and deductions shall be available for inspection and copying by CAL FIRE project Representative at all reasonable hours at Contractor's principal office. Certified payrolls shall be made available as follows:
 - a) A certified copy of an employee's payroll record shall be made available for inspection or furnished to the employee or the employee's authorized representative on request.
 - b) A certified copy of all payroll records enumerated in **paragraph 1)** above, shall be made available for inspection or furnished upon request to a representative of CAL FIRE, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the of Industrial Relations. Certified payrolls submitted to CAL FIRE, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards shall not be altered or obliterated by Contractor.
 - 3) Each Contractor shall submit a certified copy of the records enumerated in **paragraph 1)** above, to the entity that requested the records within 10 days after receipt of a written request.
 - 4) Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by CAL FIRE shall be marked or obliterated in such a manner as to prevent disclosure of each individual's name, address and social security number. The name and address of Contractor awarded the Agreement or performing the Agreement shall not be marked or obliterated.
 - 5) Contractor shall inform CAL FIRE of the location of the records enumerated under **paragraph 1)**, above, including the street address, city and county, and shall, within five (5) working days, provide a notice of a change of location and address.
 - 6) Contractor or Subcontractor shall have 10 days in which to comply subsequent to receipt of written notice requesting the records enumerated in **paragraph 1)**, above. In the event Contractor or Subcontractor fails to comply within the 10-day period, it shall, as a penalty to CAL FIRE, forfeit \$100 for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Such penalties shall be withheld by CAL FIRE from payments then due. A Contractor is not subject to a penalty assessment pursuant to this section due to the failure of a Subcontractor to comply with this section.
- B. The penalties specified in **paragraph 6)**, above, for noncompliance with the provisions of said Labor Code Section 1776 will be deducted from any monies due or which may become due to Contractor. Penalties assessed for failure to submit certified payrolls are forfeitures and not retentions that will be returned to Contractor.
- C. Payrolls shall contain the full name, address and social security number of each employee, the correct work classification (including apprentices, if applicable), rate of pay, daily and weekly number of hours worked, itemized deductions made, and actual wages paid. The payroll shall be signed by the employer or employer's agent indicating that the payrolls are correct and complete and that the wage rates contained therein are not less than

EXHIBIT B
(Budget Detail and Payment Provisions)

those required by the Agreement. Contractor shall be responsible for the submission of copies of payrolls of all Subcontractors.

- D. Contractor and each Subcontractor shall preserve their payroll records for a period of three (3) years from the date of completion of the Agreement.
- E. Contractor shall submit a certified copy of all payroll records for verification by CAL FIRE Contract Representative with each invoice. When progress payments are called for, Contractor shall submit a certified copy of all payroll records for verification for the work completed to date with each invoice. Delinquent or inadequate certified payrolls or other required documents will result in the withholding of payment until such documents are submitted by Contractor.
- F. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this clause.

8. Penalty

- A. Contractor and any Subcontractor under Contractor shall comply with Labor Code Sections 1774 and 1775. In accordance with said Labor Code Section 1775, Contractor shall forfeit, as a penalty to CAL FIRE, not more than \$200.00 for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for such work or craft in which such worker is employed for any public work done under the Agreement by Contractor, or by any Subcontractor, in violation of the provisions of the Labor Code and, in particular, Labor Code Sections 1775 to 1780, inclusive.
- B. The amount of this forfeiture shall be determined by the Labor Commissioner and shall be based on consideration of the mistake, inadvertence, or neglect of Contractor or Subcontractor in failing to pay the correct rate of prevailing wages, or the previous record of Contractor or Subcontractor in meeting his or her prevailing wage obligations, or a Contractor's willful failure to pay the correct rates of prevailing wages. A mistake, inadvertence, or neglect in failing to pay the correct rate of prevailing wages is not excusable if Contractor or Subcontractor had knowledge of the obligations under the Labor Code. Any Contractor that executes and receives a copy of this Agreement is deemed to have knowledge of his or her obligations regarding the Labor Code's prevailing wage requirements. In addition to the penalty and pursuant to Labor Code Section 1775, the difference between the prevailing wage rates and the amount paid to each worker for each calendar day, or portion thereof, for which each worker was paid less than the prevailing wage rate shall be paid to each worker by Contractor or Subcontractor.
- C. If a worker employed by a Subcontractor on a public works project is not paid the general prevailing per diem wages by the Subcontractor, Prime Contractor of the project is not liable for any penalties described above unless Prime Contractor had knowledge of that failure of the Subcontractor to pay the specified prevailing rate of wages to those workers or unless Prime Contractor fails to comply with all of the following requirements:
 - 1) The Agreement executed between Contractor and the Subcontractor for the performance of work on the public works project shall include a copy of the provisions of Sections 1771, 1775, 1776, 1777.5, 1813 and 1815 of the Labor Code.
 - 2) Contractor shall monitor the payment of the specified general prevailing rate of per diem wages by the Subcontractor to the employees by periodic review of the certified payroll records of the Subcontractor.
 - 3) Upon becoming aware of the failure of the Subcontractor to pay his or her workers the specific prevailing rate of wage, Contractor shall diligently take corrective action to halt or rectify the failure, including, but not limited, to retaining sufficient funds due the Subcontractor for work performed on the public works project.
 - 4) Prior to making final payment to the Subcontractor for work performed on the public works project, Contractor shall obtain an affidavit signed under penalty of perjury for the Subcontractor that the Subcontractor has paid the specified general prevailing rate of per diem wages to his or her employees on the public works project and any amounts due pursuant to Labor Code Section 1813.
- D. Pursuant to Labor Code Section 1775, CAL FIRE shall notify Contractor on a public works project within fifteen (15) days of receipt of a complaint that a Subcontractor has failed to pay workers the general prevailing rate of per diem wages.

EXHIBIT B
(Budget Detail and Payment Provisions)

E. If CAL FIRE determines that employees of a Subcontractor were not paid the general prevailing rate of per diem wages and if CAL FIRE did not retain sufficient money under the Agreement to pay those employees the balance of wages owed under the general prevailing rate of per diem wages, Contractor shall withhold an amount of moneys due the Subcontractor sufficient to pay those employees the general prevailing rate of per diem wages if requested by CAL FIRE.

F. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this clause.

9. State General Prevailing Wage Rates

Contractor agrees to comply with all of the applicable provisions of the Labor Code including those provisions requiring the payment of not less than the general prevailing rate of wages. Contractor further agrees to the penalties and forfeitures provided in said Code in the event a violation of any of the provisions occurs in the execution of this Agreement.

10. State Prevailing Wage Rate Determinations

- A. The General Prevailing Wage Rate determinations are made a specific part of this Agreement by reference pursuant to Labor Code Section 1773.2. Any special wage rate determinations applicable to this project are attached.
- B. General Prevailing Wage Rate Determinations applicable to this project may also be obtained from the DIR website at: <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>.
- C. After award of the Agreement, and prior to commencing work, all applicable General Prevailing Wage Rate Determinations are to be obtained by Contractor from DIR. These wage rate determinations are to be posted by Contractor at the job site in accordance with Labor Code Section 1773.2.

11. Hours of Labor

- A. Eight (8) hours labor constitutes a legal day's work. Contractor shall forfeit, as a penalty to CAL FIRE, \$25 for each worker employed in the execution of the Agreement by Contractor or any Subcontractor under Contractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of the Labor Code, and in particular Labor Code Sections 1810 to 1815 thereof, inclusive, except that work performed by employees in excess of eight (8) hours per day, and forty (40) hours during any one week, shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day and forty (40) hours in any week, at not less than one and one-half times the basic rate of pay, as provided in Section 1815.
- B. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this clause.

12. Employment of Apprentices

- A. Contractor and any Subcontractors shall comply with all applicable requirements of Labor Code Sections 1777.5, 1777.6 and 1777.7 in the employment of apprentices.
- B. Contractors and Subcontractors are required to comply with all Labor Code requirements regarding the employment of apprentices, including mandatory ratios of journey level to apprentice workers. Prior to commencement of work, Contractors and Subcontractors are advised to contact the State Division of Apprenticeship Standards, P. O. Box 420603, San Francisco, California 94142-0603, or one of its branch offices, for additional information regarding the employment of apprentices and for the specific journey-to-apprentice ratios for the Agreement work. Prime Contractor is responsible for all Subcontractors' compliance with these requirements. Penalties for failure to comply with apprenticeship requirements are specified in Labor Code Section 1777.7.
- C. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this clause.

EXHIBIT D
(Special Terms and Conditions)

SPECIAL TERMS AND CONDITIONS

1. Excise Tax

The State of California is exempt from federal excise taxes, and no payment will be made for any taxes levied on employees' wages. The State will pay for any applicable State of California or local sales or use taxes on the services rendered or equipment or parts supplied pursuant to this Agreement. California may pay any applicable sales and use tax imposed by another state.

2. Settlement of Disputes

- A. In the event of a dispute, within 10 days of discovery of the problem, Contractor shall file a "Notice of Dispute" with:

California Department of Forestry and Fire Protection
Attention: CAL FIRE Project Representative
P.O. Box 944246
Sacramento, CA 94244-2460

- B. Within 10 days of CAL FIRE receiving Contractor's notice, the Contracts Representative or designee shall advise Contractor of the findings and recommend a method to resolve the dispute. Decision of the Contracts Representative or designee shall be final.
- C. In the event of a dispute, the language contained within this Agreement shall prevail over any other language including that of the bid proposal.

3. Right to Terminate

- A. Termination for Cause

The agreement can be immediately terminated for cause. (Refer to GTC, Exhibit C, Item 7. Termination for Cause)

- B. Termination without Cause

The State reserves the right to terminate this agreement subject to 30 days written notice to the Contractor. Contractor may submit a written request to terminate this agreement only if the State should substantially fail to perform its responsibilities as provided herein.

4. Retention of Records/ Audits

- A. Contractor agrees that the awarding department, the Department of General Services, the Bureau of State Audits, or their designated representative shall have the right to review and to copy any records and supporting documentation pertaining to the performance of this Agreement. Contractor agrees to maintain such records for possible audit for a minimum of three (3) years after final payment, unless a longer period of records retention is stipulated. Contractor agrees to allow the auditor(s) access to such records during normal business hours and to allow interviews of any employees who might reasonably have information related to such records. Further, Contractor agrees to include a similar right of the State to audit records and interview staff in any subcontract related to performance of this Agreement (GC § 8546.7, PCC § 10115 et seq., CCR Title 2, §1896). Contractor shall comply with the above and be aware of the penalties for violations of fraud and for obstruction of investigation as set forth in PCC § 10115.10.
- B. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this clause.

5. Subcontractors

- A. Nothing contained in this Agreement or otherwise, shall create any contractual relation between CAL FIRE and any Subcontractors, and no subcontract shall relieve Contractor of its responsibilities and obligations hereunder. Contractor agrees to be as fully responsible to CAL FIRE for the acts and omissions of its Subcontractors and of persons either directly or indirectly employed by any of them as it is for the acts and omissions of persons directly employed by Contractor. Contractor's obligation to pay its Subcontractors is an independent obligation from CAL FIRE obligation to make payments to Contractor.

**EXHIBIT D
(Special Terms and Conditions)**

- B. Contractor shall perform the work contemplated with resources available within its own organization and no portion of the work shall be subcontracted, except for Subcontractors listed on **the Bidder Declaration (GSPD-05-105), Attachment 2.**
- C. Any substitution of Subcontractors shall comply with the requirements of Public Contract Code Sections 4100 et seq. and must be approved in writing by CAL FIRE Project Representative in advance of assigning work to a substitute Subcontractor.

6. DVBE Participation (Without Goals)

CAL FIRE has established no goals for the DVBE participation for this Agreement. However, Contractor shall be fully informed respecting the California Public Contract Code Sections 10115 et seq., which is incorporated by reference. Contractor is urged to obtain DVBE Subcontractor participation should clearly defined portions of the work become available.

7. Non-Solicitation

Contractor warrants by execution of this Agreement, that no person or selling agency has been employed or retained to solicit or secure this Agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained or contracted by Contractor for the purpose of securing business. For breach or violation of this warranty, the State shall, in addition to other remedies provided by law, have the right to annul this Agreement without liability, paying only for the value of the work actually performed, or in its discretion, to deduct from the contract price or consideration, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

8. Laws to be Observed

Contractor shall keep fully informed of all existing and future State and Federal laws and county and municipal ordinances and regulations which in any manner affect those engaged or employed in the work, the materials used in the work, or which in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. Contractor shall at all times observe and comply with and shall cause all agents and employees to observe and comply with, all such existing and future laws, ordinances, regulations, orders, and decrees of bodies or tribunals having any jurisdiction or authority over the Agreement. Contractor shall protect and indemnify the State of California and all officers and employees thereof connected with the work against any claim, injury, or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by Contractor, its Subcontractor(s), or an employee(s). If any discrepancy or inconsistency is discovered in the plans, drawings, specification, or Agreement for the work in relation to any such law, ordinance, regulation, order, or decree, Contractor shall immediately report the same to CAL FIRE Project Representative in writing.

9. Specific Legal References

Any reference to specific statutes, regulations, or other legal authority in this Agreement shall not relieve Contractor from the responsibility of complying with all existing and future laws, ordinances, regulations, orders, and decrees of bodies or tribunals having any jurisdiction or authority over the Agreement.

10. Equipment Indemnification

- A. Contractor shall indemnify CAL FIRE for any claims against CAL FIRE for loss or damage to Contractor's property or equipment during its use under this Agreement and shall, at Contractor's own expense, maintain such fire, theft, liability, or other insurance as deemed necessary for this protection. Contractor assumes all responsibility which may be imposed by law for property damage or personal injuries caused by defective equipment furnished under this Agreement or by operations of Contractor or Contractor's employees under this Agreement.
- B. Any subcontract entered into as a result of this Agreement shall contain all the provisions of this clause.

11. Evaluation of Contractor

Performance of the Contractor under this Agreement will be evaluated. The evaluation shall be prepared on Contract/Contractor Evaluation Sheet (STD 4) and maintained in the Agreement file. For consultant agreements, a copy of the evaluation will be sent to the California Department of General Services, Office of Legal Services, if it is negative and over \$5,000.00.

EXHIBIT D
(Special Terms and Conditions)

12. Agency Liability

The Contractor warrants by execution of this Agreement, that no person or selling agency has been employed or retained to solicit or secure this Agreement upon agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty, the State shall, in addition to other remedies provided by law, have the right to annul this Agreement without liability, paying only for the value of the work actually performed, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

13. Force Majeure

Neither party shall be liable to the other for any delay in or failure of performance, nor shall any such delay in or failures of performance constitute default, if such delay or failure is caused by "Force Majeure." As used in this section, "Force Majeure" is defined as follows: Acts of war and acts of God such as earthquakes, floods, and other natural disasters such that performance is impossible.

14. Employment of Undocumented Workers

By signing this Agreement, Contractor swears or affirms that it has not, in the preceding five (5) years, been convicted of violating a State or Federal law relative to the employment of undocumented workers.

15. Contractor Name Change

Contractor shall provide a written notice to the State at least 30 days prior to any changes to the Contractor's current legal name.

16. Bonds

Payment Bond Requirement: If the total contract price exceeds **\$25,000.00**, Contractor shall furnish a Payment Bond for not less than one hundred percent (100%) of the total amount payable by the terms of this Agreement. The Payment Bond is due prior to the start date of work. No work may commence without receipt of a valid Payment Bond. The Payment Bond must be in effect at all times for the duration of the Agreement. If the Payment Bond expires during the term of the Agreement, a new Payment Bond must be provided to the CAL FIRE Contact Manager not less than ten (10) business days prior to its expiration. Failure to maintain a Payment Bond for the full term of this Agreement will be grounds for termination for default in addition to other legal remedies CAL FIRE may have. Inadequate or lack of a Payment Bond does not negate Contractor's obligations under this Agreement.

17. Assumption of Risk and Indemnification Regarding Exposure to Environmental Health Hazards

In addition to, and not a limitation of, Contractor's indemnification obligations contained elsewhere in this Agreement, Contractor hereby assumes all risks of the consequences of exposure of Contractor's employees, agents, Subcontractors, Subcontractors' employees, and any other person, firm, or corporation furnishing or supplying work services, materials, or supplies in connection with the performance of this Agreement, to any and all environmental health hazards, local and otherwise, in connection with the performance of this Agreement. Such hazards include, but are not limited to, bodily injury and/or death resulting in whole or in part from exposure to infectious agents and/or pathogens of any type, kind, or origin. Contractor also agrees to take all appropriate safety precautions to prevent any such exposure to Contractor's employees, agents, Subcontractors, Subcontractors' employees, and any other person, firm or corporation furnishing or supplying work services, materials, or supplies in connection with the performance of this Agreement. Contractor also agrees to indemnify and hold harmless CAL FIRE, the State of California, and each and all of their officers, agents and employees, from any and all claims and/or losses accruing or resulting from such exposure. Except as provided by law, Contractor also agrees that the provisions of this paragraph shall apply regardless of the existence or degree of negligence or fault on the part of CAL FIRE, the State of California, and/or any of their officers, agents and/or employees.

18. Mandatory Organic Waste Recycling

It is understood and agreed that pursuant to Public Resources Code Sections 42649.8 et seq., if Contractor generates four (4) cubic yards or more of organic waste or commercial solid waste per week, Contractor shall arrange for organic waste or commercial waste recycling services that separate/source organic waste for organic waste recycling. Contractor shall provide proof of compliance, i.e. organic waste recycling services or commercial waste recycling services that separate/source organic waste recycling, upon request from CAL FIRE.

EXHIBIT D
(Special Terms and Conditions)

19. Health and Safety

- A. Contractor and all subcontractors shall abide by all health and safety mandates issued by federal, state, and local governments and/or public health officers as well as those issued by CAL FIRE, and worksite specific mandates. If multiple mandates exist, the Contractor and subcontractors shall abide by the most restrictive mandate. The term "employee", "worker", "state worker" or "state employee" in health and safety mandates includes contractor and subcontractor personnel.
- B. Costs associated with adhering to health and safety mandates are the responsibility of the Contractor. Contractor is responsible for the tracking and compliance of health and safety mandates and may be audited upon request.

20. Executive Order N-6-22 – Russia Sanctions

On March 4, 2022, Governor Gavin Newsom issued Executive Order N-6-22 (the EO) regarding Economic Sanctions against Russia and Russian entities and individuals. "Economic Sanctions" refers to sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as any sanctions imposed under state law. The EO directs state agencies to terminate contracts with, and to refrain from entering any new contracts with, individuals or entities that are determined to be a target of Economic Sanctions. Accordingly, should the State determine Contractor is a target of Economic Sanctions or is conducting prohibited transactions with sanctioned individuals or entities, that shall be grounds for termination of this agreement. The State shall provide Contractor advance written notice of such termination, allowing Contractor at least 30 calendar days to provide a written response. Termination shall be at the sole discretion of the State.

EXHIBIT E
(Additional Provisions)

ADDITIONAL PROVISIONS

1. Insurance Requirements

A. General Provisions Applying to All Policies

- 1) Deductible and Premiums
 - a) Contractor is responsible for any deductible or self-insured retention contained within the insurance program.
 - b) The Department will not provide for nor compensate Contractor for any insurance premiums or costs for any type or amount of insurance.
- 2) Coverage Term and Policy Cancellation or Termination:
 - a) Coverage must be in force for the complete term of this Agreement. If insurance expires during the term of this Agreement, a new certificate must be received by CAL FIRE project representative at least ten (10) days prior to the expiration of the insurance. Any new insurance must continue to comply with the original terms of this Agreement.
 - b) Contractor shall provide, to CAL FIRE project representative within five (5) business days, following receipt by Contractor, a copy of any cancellation or non-renewal of insurance required by this Agreement. In the event Contractor fails to keep, in effect at all times, the specified insurance coverage, the State may, in addition to any other remedies it may have, terminate this Agreement upon the occurrence of such event, subject to the provisions of this Agreement.
- 3) Primary Clause: Any required insurance contained in this contract shall be primary, and not excess or contributory, to any other insurance carried by the State.
- 4) Endorsements: Any required endorsements requested by the State must be physically attached to all requested certificates of insurance and not substituted by referring to such coverage on the certificate of insurance.
- 5) The Department will not provide for nor compensate Contractor for any insurance premiums or costs for any type or amount of insurance.
- 6) Insurance Carrier Required Rating: All insurance companies must carry a rating acceptable to the Department of General Services, Office of Risk and Insurance Management (ORIM). If Contractor is self-insured for a portion or all of its insurance, review of financial information including a letter of credit may be required. Department of General Services, ORIM Website: <https://www.dgs.ca.gov/ORIM>.
- 7) When Contractor submits a signed contract to the State, Contractor shall furnish to the State a certificate of insurance stating that all required insurance is in effect for the Contractor.

B. General and Commercial Liability Insurance

- 1) Contractor shall provide commercial general liability insurance of not less than **\$1,000,000.00** per occurrence for bodily injury and property damage liability combined in effect for the Contractor.
- 2) The policy shall include coverage for liabilities arising out of premises, operations, independent contractors, products, completed operations, personal and advertising injury, and liability assumed under an insured Agreement. This insurance shall apply separately to each insured against whom claim is made or suit is brought subject to Contractor's limit of liability.
- 3) The certificate of insurance will include the following provision in its entirety:

The State of California, its officers, agents and employees are included as additional insured, but only with respect to work performed for the State of California under the contract.
- 4) The additional insured endorsement must accompany the certificate of insurance.

EXHIBIT E
(Additional Provisions)

- 5) This endorsement must be supplied under form acceptable to the Department of General Services, Office of Risk and Insurance Management.

C. Worker's Compensation Insurance

Contractor shall provide Worker's Compensation Insurance with Waiver of Subrogation in favor of the State of California. Employer's liability shall be not less than **\$1,000,000.00**. The following clause should be included: "Waiver of Subrogation in favor of the State of California or in favor of CAL FIRE:" By signing this Agreement, the Contractor hereby warrants that it carries Workers' Compensation Insurance on all of its employees who will be engaged in the performance of this Agreement. If Staff provided by the Contractor is defined as independent contractors, this clause does not apply.

D. Commercial Automobile Insurance on Owned, Hired, and Non-Owned vehicles.

Contractor shall provide Commercial Automobile Insurance on Owned, Hired, and Non-Owned vehicles of not less than **\$1,000,000.00** policy. The same additional insured designation and endorsement required for general liability is to be provided for this coverage.

E. Builder's Risk

During the term of this Agreement, Contractor shall maintain in force, at its own expense, Builder's Risk covering contractor's labor, materials and equipment to be used for completion of the work performed under this Agreement against all risks of direct physical loss, excluding earthquake and flood, for an amount equal to the full amount of the Agreement improvements. The same additional insured designation and endorsement required for general liability is to be provided for this coverage.

F. Available Coverages/Limits

In the event the insurance coverages obtained by Contractor is broader in scope than, and/or the limits are higher than, those required under the contract, all such broader coverage and/or higher limits available to Contractor shall also be available and applicable to the State.

2. Regulations

- A. Contractor shall observe and comply with all federal, state, city, and county laws, rules or regulations affecting the work. Any work done that does not comply with any laws, rules, or regulations will be remedied at the Contractor's expense.
- B. Contractor shall cooperate with the CAL FIRE authorities and shall observe and comply with all regulations presently in force on CAL FIRE grounds.

3. Americans with Disabilities Act

By signing this contract, the contractor assures the State that it complies with the Americans with Disabilities Act (ADA) of 1990 (42 USC § 12101 et seq.), which prohibits discrimination on the basis of disability, as well as with all applicable regulations and guidelines issued pursuant to the ADA.

4. Motor Carrier Permit Requirements

- A. Contractor is responsible for determining whether California Vehicle Code Sections 34601 and 34620 require Contractor to have a valid Motor Carrier Permit(s) (MCP) issued by the Department of Motor Vehicles (DMV) in order for Contractor to lawfully perform any part or aspect of the work described in **Exhibit A, Scope of Work**, and, if California Vehicle Code Sections 34601 and 34620 do require same for any part or aspect of such work, Contractor must have a valid MCP issued from the DMV for its services as a Motor Carrier of Property under this Agreement. Contractor shall pay any required fees necessary to obtain and maintain in good standing during the entire term of this Agreement any such required MCP(s).
- B. The MCP(s), if any, required for Contractor's Motor Carriers of Property under California Vehicle Code Sections 34601 and 34620 shall be on file with Contractor for the duration of this Agreement. Upon request of CAL FIRE Contract Manager or their designee, Contractor must immediately provide to CAL FIRE a copy of the required MCP(s), if any.

EXHIBIT E
(Additional Provisions)

5. License and Permits

- A. Contractor shall be licensed in accordance with the laws of the State of California and shall possess a **C10-Electrical** license issued by the California Contractors State Licensing Board (CSLB).
- B. The Contractor shall be an individual or firm currently licensed to do business in California and shall obtain at their expense all license(s) and permit(s) required by law for accomplishing any work required in connection with this contract. In the event the Contractor fails to keep in effect at all times all required license(s) and permit(s), the State may, in addition to any other remedies it may have, terminate this contract upon occurrence of such event.
- C. If you are a Contractor located within the State of California, a business license from the city/county in which you are headquartered is necessary however, if you are a corporation, a copy of your incorporation documents/letter from the Secretary of State's Office can be submitted. If you are a Contractor outside the State of California, you will need to submit to the CAL FIRE Contracts Unit a copy of your business license or incorporation papers for your respective State showing that your company is in good standing in that state.
- D. If Contractor is a California or foreign corporation, Contractor must be registered and active/in good standing with the California Secretary of State.
- E. In the event any license(s) and/or permit(s) expire at any time during the term of this Agreement, Contractor agrees to provide CAL FIRE Project Representative a copy of the renewed license(s) and/or permit(s) within 30 days following the expiration date. In the event Contractor fails to keep in effect at all times all required license(s) and permit(s), the State may, in addition to any other remedies it may have, terminate this Agreement upon occurrence of such event.

6. Licensed Contractor Standards for Quality of Work

- A. Licensed Contractors must observe professional standards for quality of work or the California Contractors State License Board (CSLB) will invoke disciplinary action.
- B. Notice is hereby given that certain actions by a Contractor, including, but not limited to, the following, constitute grounds for disciplinary action by the CSLB once CAL FIRE has notified the license board of all violations:
 - 1) A willful departure from plans and specifications or disregard of trade standards for good and workmanlike construction in any material respect that might prejudice the CAL FIRE, owner of the property upon which you perform work (Bus. and Prof. Code Section 7109).
 - 2) The failure to observe and comply with all the applicable labor laws (Bus. and Prof. Code Section 7110).
 - 3) Material failure to complete this Agreement (Bus. and Prof. Code Section 7113).
- C. Should CAL FIRE determine that the work or materials provided vary materially from the specifications, or, that defective work when completed was not performed in a workmanlike manner, then Contractor warrants that it shall perform all necessary repairs, replacement and corrections needed to restore the property according to the Agreement plans and specifications, all at no further or additional cost to CAL FIRE.

7. Tax Delinquencies Contract Ban

Public Contract Code section 10295.4 provides that a state agency shall not enter into any contract for goods or services with a contractor whose name appears on either list of the 500 largest tax delinquencies pursuant to Section 7063 or 19195 of the Revenue and Taxation Code. This prohibition applies to contracts executed on or after July 1, 2012. FTB and BOE will post and periodically update lists of the 500 largest tax delinquencies on their websites as required by law. Starting July 1, 2012, prior to executing contracts, state agencies must check the FTB and BOE lists to ensure the proposed awardee/vendor is not on either list.

8. Debarment and Suspension Certification

- A. Contractor's signature affixed herein shall constitute a certification under penalty of perjury under the laws of the State of California, that Contractor or any person associated therewith in the capacity of owner, partner, director, officer, or manager:

EXHIBIT E
(Additional Provisions)

- 1) is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;
 - 2) has not been suspended, debarred, voluntarily excluded, or determined ineligible by any Federal agency within the past three (3) years;
 - 3) does not have a proposed debarment pending; and
 - 4) has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three (3) years.
- B. Any exceptions to this certification must be disclosed to CAL FIRE. Exceptions will not necessarily result in denial of recommendation for award but will be considered in determining bidder responsibility. Disclosures must indicate the party to whom the exceptions apply, the initiating agency, and the dates of agency action.

9. Contractor Registration Program

No Contractor or Subcontractor may be awarded this contract unless registered with the DIR pursuant to Labor Code Section 1725.5.

10. Small Business or Disabled Veteran Business Enterprise Certification

Contractor and/or Subcontractor(s) shall maintain its status as a DGS certified SB/MB or DVBE, as applicable, throughout the term of this Agreement.

11. Public Works – Rules/Regulations

- A. Contractor shall observe and comply with all federal, state, city, and county laws, rules or regulations affecting the work. Any work done that does not comply with any laws, rules, or regulations will be remedied at the Contractor's expense.
- B. Contractor shall cooperate with the Department of Forestry and Fire Protection (CAL FIRE) authorities and shall observe and comply with all regulations presently in force on Department of Forestry and Fire Protection grounds.

C. Materials

- 1) New materials must be used throughout the work incorporated in this contract. Where a particular grade or quality of material is not specified and more than one grade or quality is available to the contractor, the best grade or quality material containing the required characteristics for the purpose intended, normally used in construction of similar work will be used.
- 2) Contractor must request approval of all alternate materials. Any such requests should be directed to the designated Contract Manager. No additional compensation will be allowed for the installation of approved substitute items.

D. Storage

- 1) When necessary, materials shall be stored in a manner that ensures the preservation of their quality and fitness for the work. When State considers it necessary, materials shall be placed on wooden platforms or other hard clean surfaces and placed under cover. Stored materials shall be available for prompt inspection.
- 2) In case of suspension of work for any cause, contractor shall be responsible for properly storing all materials, and shall provide suitable drainage and temporary protective structures.

E. Time

1) Schedule

State will designate the starting day of the contract when contractor shall immediately begin and diligently prosecute the work to completion. Contractor shall coordinate with the CAL FIRE Project Representative to establish a schedule of the work to be performed. This schedule will coordinate any interruptions to State operations if necessary.

**EXHIBIT E
(Additional Provisions)**

2) Extensions

Contractor is obligated to satisfactorily complete the work on or before the contract's expiration date. If the work called for under the contract is not completed within the time specified, the State shall have the right to extend or not extend the time limit for its completion as may best serve the interest of the State.

F. The Work

1) Worksite

- a) Contractor shall be responsible for, provide, and maintain all proper temporary walks, roads, guards, railing, lights and warning signs and shall take precautions at all time to avoid injury or damage to any person or any property.
- b) No advertising of any description will be permitted in or about the work, except by order of the State.
- c) Contractor having control of the work shall clean up the work as it progresses. At frequent intervals and at all times when directed by State, contractor shall remove and dispose of all rubbish, excess excavated material, and debris. Contractor shall protect all adjoining and nearby State and public property, buildings, roads, and streets from dust, dirt, debris, or other nuisance arising out of contractor's operations.
- d) At completion the work site shall be cleared of tools, false work, equipment and rubbish and the entire project, including surrounding premises, shall be left in proper, clean condition. Upon completion of the work or as directed, contractor shall replace premises and adjacent property in good condition.
- e) Contractor shall be entirely responsible for any damage to the property due to hauling or other causes attributable to this work, including roads, curbs, fences, utilities, or other permanent improvements needing to be disturbed to the extent required. All such damaged portions shall be repaired when directed and as required to place them in as good condition as existed before the commencement of the work.

2) Acceptance

- a) Until the State makes formal acceptance of the work, contractor shall have the charge and care and shall bear the risk of injury or damage to any part of the work by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work.
- b) The State will accept work performed under this contract in writing when all work has been completed satisfactorily to the State. In judging the work, no allowance for deviations from the original scope of work will be made unless already approved in writing at the proper times and in the manner called for in the contract.

3) Rejection

- a) Should any portion of the work or materials fail to comply with the scope of work or provisions listed herein, the work or materials will be rejected. Contractor will immediately correct the work or materials in question, to the satisfaction of the State.
- b) Any work done that does not comply with any laws, rules, or regulations will be remedied at contractor's expense.

4) Guarantees

- a) Contractor shall unconditionally guarantee the work of the contract to be free of defects in workmanship and materials for a period of one year from date of State's acceptance of the work.
- b) Contractor shall unconditionally guarantee the work of the contract to be free of defects in workmanship and materials for a period of one year from date of State's acceptance of the work, unless a longer guarantee period is specifically called for. Prime contractor shall be responsible for the one year guarantee and shall sign for the entire work. The guarantee may also be countersigned by the subcontractor.

EXHIBIT E
(Additional Provisions)

G. Liabilities

- 1) Contractor shall, at own expense, rebuild, repair, restore, and make well all injuries or damages to any portion of the work before its completion and acceptance.
- 2) State shall not be answerable or accountable in any manner for any occurrences over which contractor has control and responsibility. This includes injury or damage from any cause that might have been prevented by the contractor or contractor's workers or anyone employed by contractor. Occurrences include but are not limited to injury to any person whether worker or the public, damage to any portion of the work, damage to materials or equipment used, or damage to adjoining property.
- 3) Contractor shall be responsible for any damage to any person or property resulting from defects, obstructions, or any other cause during the progress of the work at any time before its completion and final acceptance. State may retain money due contractor under the contract until disposition has been made of any suits or claims for damages filed for injuries or damages sustained by contractor, contractor's servants, or agents, provided that sworn statements of these claims are filed with the department or any other appropriate State office.
- 4) Neither the Director of CAL FIRE nor any other officer or authorized assistant of the department shall be personally responsible for any liability arising under the contract.

H. Changes

1) Requests

- a) If any conflict arises between provisions of the plans, specifications, scope of work, and any such law, then contractor shall notify the State at once. Such changes must be approved in writing but do not require a Change Order. All other types of changes will require the issuance of a Change Order duly approved either before making the change or, in the case of emergency changes described below, after the emergency change has been completed.
- b) State shall be at liberty to order, in writing, changes in the plans and specifications, or alterations, additions, or omissions in the work at any time prior to the formal completion and acceptance of the work without in any way voiding the contract and the Contractor shall comply with such orders.
- c) Any change or deviations from the contract plans and specifications or in the work made without authority in writing from the State will be the responsibility of the Contractor.
- d) Whenever the necessity for a change arises either at the request of the Contractor or at the request of the State, the Contractor shall take note that a change is pending and he shall take all necessary steps to halt such other work in the area of change that would be affected by the ultimate change until such time as the change is approved.

2) Detailed estimates

- a) When a request for a change is made by or received by contractor, the contractor shall prepare a full and completely detailed estimate of cost for the change, including itemized estimates for subcontractors work, and accurate quantities and unit prices for all items to be added or omitted by reason of the change. Changes requiring labor and/or materials over and above quantities originally called for will be paid for as an extra to the contract, while changes resulting in lesser quantities of labor and/or materials shall be credited to the State by contractor.
- b) The costs of extra work shall be estimated at current market values to which may be added five percent (5%) for overhead, ten percent (10%) for profit, and one percent (1%) where additional bonding is required. Credit for work omitted shall be on the same basis except that no credit for overhead or bond will be exacted. Unit prices shall be comparable with prices used by the Contractor in the original estimate if requested by the State. Estimates for requested changes shall be submitted promptly and in all cases within fifteen (15) calendar days from the date of request.

**EXHIBIT E
(Additional Provisions)**

3) Emergency changes

Changes in the work made necessary due to unexpected or unforeseen site conditions, discovery of errors in plans or specifications requiring immediate clarification in order to avoid a serious work stoppage, or changes of a kind where the extent cannot be determined until completed are types of emergency changes which may be authorized by the State in writing to contractor. The added price or credit for emergency changes shall be determined as provided herein for regularly issued Change Orders. In all such cases the contractor shall comply with the written orders and shall apply for and shall receive a standard form of Change Order as soon as the emergency change has been completed. Compensation for emergency changes will not be due contractor until he receives a confirming Change Order.

4) Time

- a) Each estimate for a change in the work submitted by the contractor shall state the amount of extra time that should be allowed for making the requested change. If no extra time is requested, it is assumed that the changes will be effected within the originally allotted time for the contract.
- b) State will consider all factors in judging the amount of additional time to be allowed by reason of changes in the work and will set forth in the Change Order the amount of extra time that will be allowed for each change.

5) Change orders

Contractor shall not make any changes other than emergency changes described above until State provides contractor with an approved and signed formal Change Order. State will not recognize any change in the contract sum due contractor until an approved Change Order has been issued in writing on an approved State form. The Change Order must show a full description of the change to be made, the extra time required for making the changes, and the agreed price to be added to or deducted from the contract sum. Drawings with notes and/or specifications accompanying the Change Order shall be deemed a part of the Change Order. Extra work called for by the Change Order shall be performed in accordance with the original contract drawings and specifications, except for the deviations specifically called for by the Change Order.

6) Failure to Agree

- a) In case contractor and State fail to agree on the extra cost or credit for a proposed change, State may order contractor to proceed with the change in order to avoid a serious work stoppage and the proper cost or credit for the change shall be determined as follows:
- b) For added work, contractor shall proceed on a time and material basis, keeping an accurate daily record of the cost of labor and material used under the change and submitting each day's records to the State's representative for review and approval. Upon completion of the change, a Change Order will be issued to contractor based on cost, plus overhead, profit, and bonds.
- c) For omitted work, the estimated amount of credit which the State contends is due may be withheld from any payment due contractor. Such sum will be withheld until contractor presents indisputable evidence that the State's estimate is in error.
- d) Should contractor fail to establish a valid claim, the entire amount withheld will be retained by the State; but should contractor establish that State's estimate was in error in part or in whole, State shall refund contractor the difference.

I. Time of Work and Damages

- 1) State will designate the starting day of the contract when contractor shall immediately begin and diligently prosecute the work to completion. Contractor is obligated to satisfactorily complete the work on or before the contract's expiration date, to be determined from the number of working days stated in the agreement, plus such days as may be properly allowed by State.
- 2) If all the work called for under the contract is not finished or completed before the expiration of the contract, State will sustain damage. As it is and will be impracticable and extremely difficult to determine the actual damage which the State will sustain because of any delay, contractor will pay to State liquidated damages of

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one hundred dollars (\$100) per day for each day's delay in finishing the work. If contractor fails to pay liquidated damages, CAL FIRE may deduct from contractor the amount from any money due under the contract. The contractor shall not be assessed liquidated damages for delay in completion of the project when such delay was caused by failure of the public agency or owner of the utility to provide for removal or relocation of utility facilities.

- 3) If the work called for under the contract is not completed within the time specified, the director shall have the right to extend or not extend the time limit for its completion as may best serve the interest of the State. The director shall further have the right to charge to contractor or Contractor's heirs, assigns, or sureties and to deduct from the final payment for the work, all or any part of the actual cost of engineering, inspection, superintendence, and other overhead expenses which are directly chargeable to the contract, and which accrue during the period of such extension.
- 4) Contractor shall not be assessed with liquidated damages the cost of engineering and inspection during any delay in the completion of the work caused by acts of God or of the public enemy, acts of State, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusual action of the elements, or delays of subcontractors due to such cause, providing contractor shall notify State in writing of the causes of delay within ten (10) days from the beginning of any such delay. State shall determine the facts and extent of the delay, and its findings of the facts shall be considered final and conclusive.
- 5) The term "unusual action of the elements" is limited to weather or related effects that cause a complete work stoppage of the controlling item of work at the site of the project for one or more full workdays.

J. Asbestos

In the event the contractor who is providing services under a service contract discovers asbestos, contractor shall stop all work immediately and notify the State contract coordinator, construction supervisor and/or project manager. After State has assessed site conditions and extent of asbestos-related work, State shall prepare and award a separate contract to a contractor who is registered and certified for asbestos abatement work. Under both State statute and State regulations found in the California Code of Regulations, a contractor must be certified by State Contractor's License Board and registered with the State Department of Industrial Relations, CAL-OSHA, in order to perform asbestos-related work. Contractor shall resume work under this contract only after the State gives notification to proceed.

K. Brand or Trade Names

Brand or trade names are given to establish quality, and no special preference by the State for these manufacturers is intended or implied. Where only one brand or trade name is listed, it is the only brand or trade name known to State for the particular product. State may permit contractor to use alternate product materials or equipment that is of equal quality and of required characteristics for the purpose intended if approved in writing by the State. Contractor must submit a request for approval of all alternate products in triplicate within seven (7) days of award of contract. Any such requests should be directed to the Chief Engineer, Technical Services Section, California Department of Forestry and Fire Protection, P.O. Box 944246, Sacramento, CA 94244-2460. CAL FIRE's chief engineer shall be the sole judge as to the comparative quality and suitability of the alternate and the decision shall be final. No additional compensation will be allowed for the installation of approved substitute items.

L. Interruption of Services

Contractor shall make provisions to accomplish the work of this contract without undue interference with the CAL FIRE operations. Interruptions to any services for the purpose of making or breaking a utility connection shall be made only after consultation with the State Representative and shall be at such time and of such duration as may be directed.

M. Cooperation Between Contractors

Where two or more contractors are employed on related or adjacent work each shall conduct operations in a manner which will not cause any unnecessary delay or hindrance to the other. Each contractor shall be

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(Additional Provisions)

responsible to the other for all damage to work, person, or property, or for loss caused by failure to finish the work within the time specified.

N. Conflicts in Documents

If conflict occurs between documents, priorities are:

- 1) Addenda govern over all other contract documents to the extent specified, followed by specific conditions, followed by general conditions.
- 2) Plans govern over specifications; within these, schedules govern over all other portions of plans, followed by specific notes. Larger scale drawings govern over smaller, and figured or numerical dimensions govern over scaled dimensions.
- 3) If there is conflict between provisions, codes, safety orders, contract documents, manufacturer's specifications, or industry standards, the more restrictive and higher quality govern.
- 4) If contract documents omit a requirement for proper construction system, or for combining or installing parts, materials, or equipment, and if there is an accepted trade standard for construction quality and performance, then contractor shall follow trade standard.

O. Change Authorization

CAL FIRE Chief of Technical Services or designated representative shall be the only individuals authorized to approve changes to the plans/specification, alternate materials/methods, or submittal materials.

**Attachment 1
(Rate Sheet)**

To be attached upon award.

SAMPLE

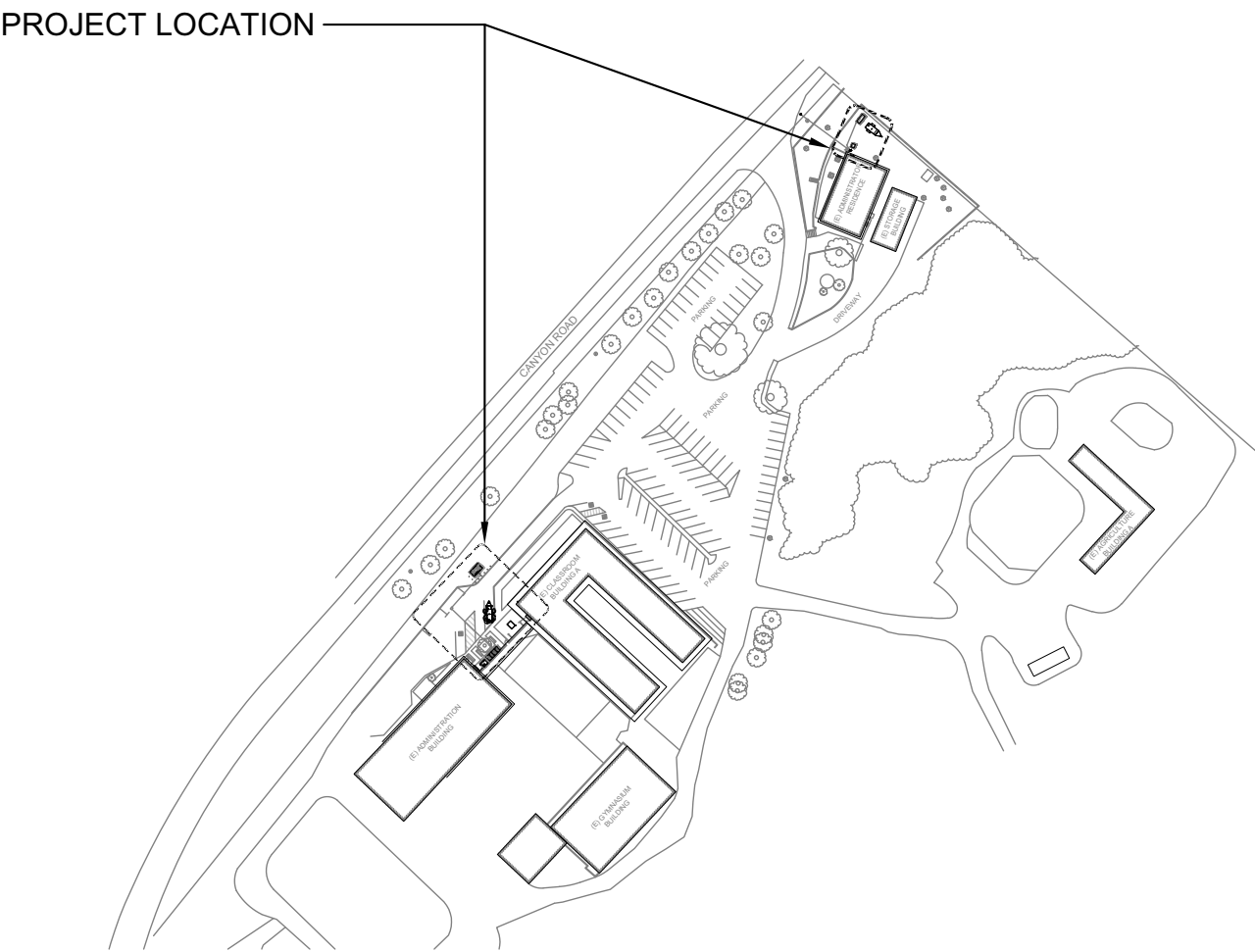
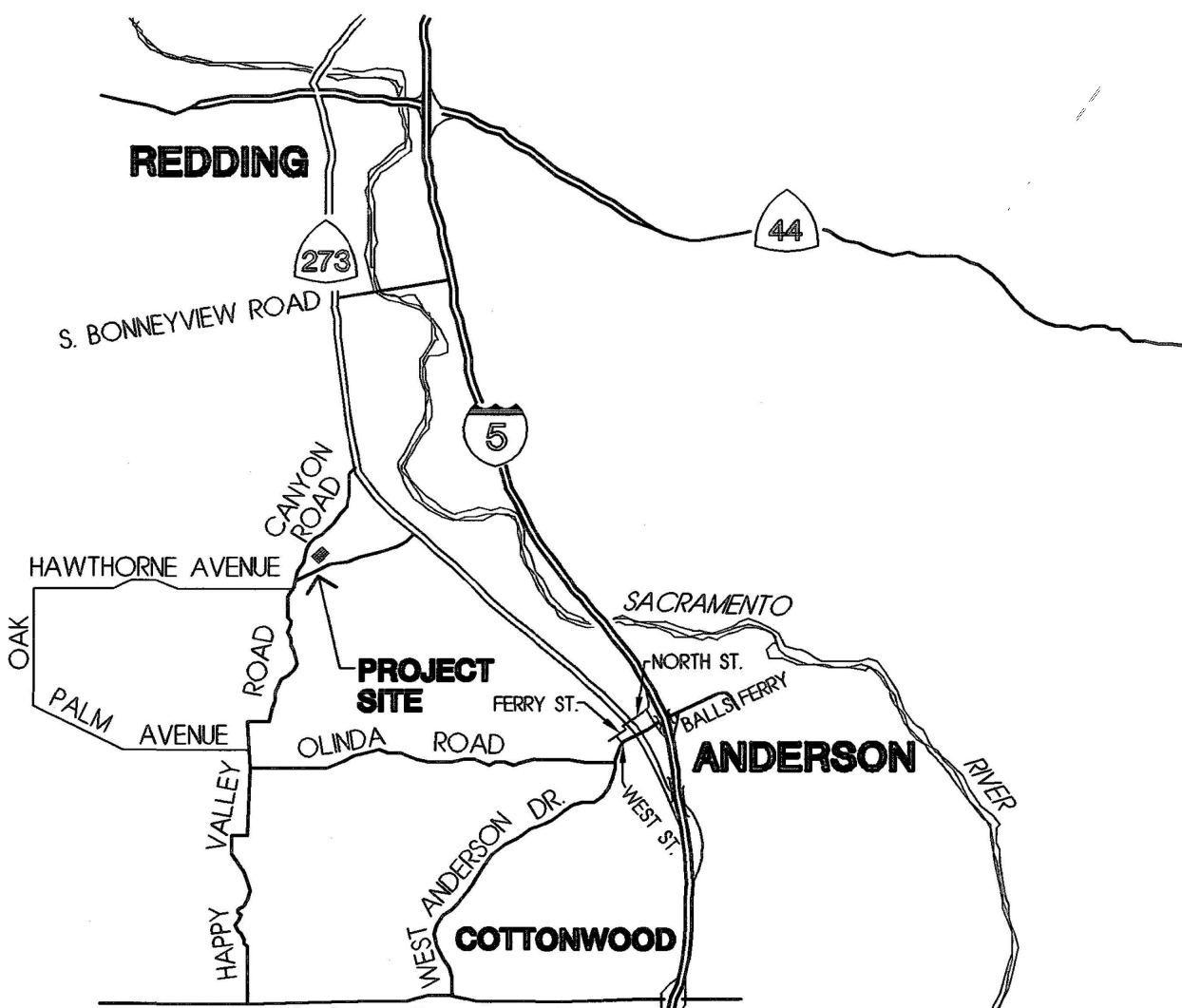
**Attachment 2
(Bidder Declaration – GSPD-05-105)**

To be attached upon award.

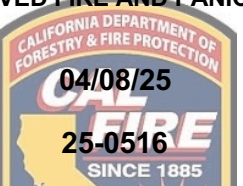
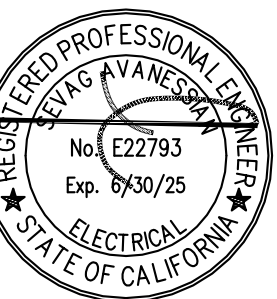
SAMPLE

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION (CAL FIRE) GENERATOR ATS AND CAMLOK HAPPY VALLEY FIRE CENTER (HVFC)

OSFM PERMIT NUMBER: 25-N-0516-C-DR
855 CANYON ROAD, REDDING, CALIFORNIA 96001

SITE PLAN	VICINITY MAP	SCOPE OF WORK	DRAWING INDEX
		1. SECTION A: A. PROVIDE (1) METERED SWITCHBOARD RATED 1200A, 208/120V, 3PH, 4W, WITH INTEGRATED AUTOMATIC TRANSFER SWITCH (ATS) AND DISTRIBUTION SECTION. B. PROVIDE (1) MANUAL TRANSFER SWITCH (MTS) 1200A, 208/120V, 3PH, 4W, WITH QUICK CONNECT CAM-LOK PORTS FOR FUTURE PORTABLE GENERATOR. C. PROVIDE (1) 150kW/188kVA OPTIONAL STANDBY STATIONARY DIESEL GENERATOR RATED 208/120V, 3PH, 4W. PROVIDE A NEMA 3, LEVEL 2, SOUND ATTENUATED ALUMINUM ENCLOSURE AND A 24HR SUB-BASE FUEL TANK WITH A SECONDARY SPILL CONTAINMENT TANK. D. PROVIDE ALL NECESSARY PROVISIONS TO INSTALL (1) FUTURE 150kW/188kVA TRAILER MOUNTED OPTIONAL STANDBY MOBILE DIESEL GENERATOR RATED 208/120V, 3PH, 4W. E. PROVIDE HANDHOLES, POWER AND COMMUNICATION CONDUITS AND CONDUCTORS AS SHOWN ON SINGLE LINE DIAGRAM AND FLOOR PLAN. 2. SECTION B: A. PROVIDE (1) METERED PANELBOARD RATED 200A, 240/120V, 1PH, 3W, WITH INTEGRATED AUTOMATIC TRANSFER SWITCH (ATS). B. PROVIDE (1) MANUAL TRANSFER SWITCH (MTS) 200A, 240/120V, 1PH, 3W, WITH QUICK CONNECT CAM-LOK PORTS FOR FUTURE PORTABLE GENERATOR. C. PROVIDE (1) 30kW/38kVA OPTIONAL STANDBY STATIONARY DIESEL GENERATOR RATED 240/120V, 1PH, 3W. PROVIDE A NEMA 3, LEVEL 2, SOUND ATTENUATED ALUMINUM ENCLOSURE AND A 24HR SUB-BASE FUEL TANK WITH A SECONDARY SPILL CONTAINMENT TANK. D. PROVIDE ALL NECESSARY PROVISIONS TO INSTALL (1) FUTURE 30kW/38kVA TRAILER MOUNTED OPTIONAL STANDBY MOBILE DIESEL GENERATOR RATED 240/120V, 1PH, 3W. E. PROVIDE HANDHOLES, POWER AND COMMUNICATION CONDUITS AND CONDUCTORS AS SHOWN ON SINGLE LINE DIAGRAM AND FLOOR PLAN. F. PROVIDE (1) DISTRIBUTION PANELBOARD RATED 200A, 240/120V, 1PH, 3W, WITH CIRCUIT BREAKERS SIZED AS SHOWN ON SINGLE LINE DIAGRAM.	GENERAL T0.1 TITLE SHEET T0.2 STATE FIRE MARSHAL TRIAGE LIST AND SIGNAGE REQUIREMENTS ELECTRICAL E0.1 ELECTRICAL COVER SHEET E0.2 ELECTRICAL SINGLE LINE DIAGRAM - SECTION A E0.3 ELECTRICAL SINGLE LINE DIAGRAM - SECTION B E0.4 ELECTRICAL LOAD CALCULATIONS AND FEEDER SCHEDULES E0.5 ELECTRICAL OVERALL SITE PLAN E1.1 ELECTRICAL DEMOLITION ENLARGED SITE PLAN - SECTION A E1.2 ELECTRICAL DEMOLITION ENLARGED SITE PLAN - SECTION B E2.1 ELECTRICAL NEW WORK ENLARGED SITE PLAN - SECTION A E2.2 ELECTRICAL NEW WORK ENLARGED SITE PLAN - SECTION B E3.1 ELECTRICAL GENERAL DETAILS E3.2 ELECTRICAL TRENCHING & HANDHOLE DETAILS E3.3 ELECTRICAL EQUIPMENT DETAILS - SECTION A E3.4 ELECTRICAL EQUIPMENT DETAILS - SECTION B E3.5 ELECTRICAL GENERATOR DETAILS - SECTION A E3.6 ELECTRICAL GENERATOR DETAILS - SECTION B E4.1 ELECTRICAL SPECIFICATIONS
PROJECT INFORMATION <u>OWNER & OWNERS AGENT</u> CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION (CAL FIRE) DISTRICT: SOUTHERN REGION HQ ADDRESS: 855 CANYON ROAD, REDDING, CALIFORNIA 96001 CONTACT NAME: MATTHEW AMES, PE TITLE: CNR TECHNICAL SERVICES PHONE: (530) 604-7958 EMAIL: MATTHEW.AMES@FIRE.CA.GOV <u>CONSULTANT:</u> J.C. CHANG & ASSOCIATES, INC. ADDRESS: 385 VAN NESS AVE, STE 208, TORRANCE CA 90501 CONTACT NAME: ORLANDO NAJERA TITLE: PROJECT ENGINEER, ELECTRICAL DEPARTMENT PHONE: 310-212-7644 ext. 236 EMAIL: onajera@jccainc.com	NEW UTILITY SERVICE REQUIREMENTS 1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND CONFIRMING TEMPORARY SERVICE AND NEW SERVICE REQUIREMENTS WITH PACIFIC GAS AND ELECTRIC COMPANY (PG&E), INCLUDING, BUT NOT LIMITED TO, CONDUIT RISER FOR UTILITY POLE, UTILITY SERVICE CONDUIT FROM UTILITY POLE TO THE LOCATION OF THE METERED SERVICE SWITCHBOARDS. MATERIAL, INSTALLATION AND TESTING SHALL BE PROVIDED IN COMPLIANCE WITH PG&E REQUIREMENTS. 2. WHEN VERIFYING PG&E REQUIREMENTS, SPECIAL ATTENTION MUST BE GIVEN TO THE ELECTRICAL SERVICE REQUIREMENTS (ESR). IN PARTICULAR, THE SWITCHBOARD METER SOCKET TYPE AS WELL AS SIZE, TYPE, AND QUANTITY OF SERVICE CONDUITS MUST BE VERIFIED WITH PG&E. 3. PACIFIC GAS AND ELECTRIC COMPANY (PG&E) SERVICE PLANNER: NAME: EDD NORMAN EMAIL: EIN1@PGE.COM JOB TITLE: PLANNER ADDRESS: 3600 MEADOW VIEW DRIVE, REDDING, CA 96002 PHONE: 530-691-9037	APPLICABLE CODES AND STANDARDS ALL WORK MUST COMPLY WITH THE LATEST APPLICABLE FOLLOWING CODES AND REGULATIONS, AS ADOPTED AND AMENDED BY LOCAL, CITY, COUNTY, MUNICIPAL AND STATE REGULATIONS: - 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. - 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. - 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. - NFPA 70 - 2020 EDITION - 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. - 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. - 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. - 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R. - 2022 CALIFORNIA REFERENCE STANDARDS, PART 12, TITLE 24 C.C.R. - TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. - 2021 NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE. - 2024 NFPA 37 INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES. - 2022 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEM. REFERENCE CODE SECTION FOR NFPA STANDARDS ARE IN 2022 CBC CHAPTER 35 OR 2022 CFC CHAPTER 80. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS. AMERICANS WITH DISABILITIES ACT TITLE II.	GENERAL NOTES 1. THE CONTRACTOR PERFORMING ELECTRICAL TASKS SHALL VERIFY THAT THE EXISTING SYSTEM OR COMPONENTS IMPACTING THIS NEW WORK ARE ENABLED, OPERATIONAL AND FUNCTIONING PROPERLY BEFORE COMMENCING WITH NEW WORK. 2. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK. 3. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED INSTALLATION. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR PERFORMING THE WORK SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF THE WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING, FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. 4. PROVIDE CONSTRUCTION BARRIERS TO PROTECT PERSONNEL. 5. CLARIFICATION: EMERGENCY OR LEGALLY REQUIRED GENERATORS ARE NOT APPLICABLE TO THIS PROJECT PER MEMORANDUM OF UNDERSTANDING BETWEEN CAL FIRE AND OSFM THAT WAS ESTABLISHED BETWEEN MIKE DUGGAN (CAL FIRE) AND STEVE GUARINO (OSFM) ON 10-14-2020. SEE ATTACHED DOCUMENTS TO SHEET T0.2. THE NEW PROPOSED 150kW OPTIONAL STANDBY GENERATOR AND 30kW STANDBY GENERATOR, SHALL COMPLY WITH 2022 CEC 702.

DATE/TIME: 08-Feb-2025 03:58PM
CA FILE: L:\2024\24601-8 Generator ATS and Camlok Happy Valley Fire Center (HVFC)\CAD\246018_T01.dwg

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OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY	
	
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.	
	
TECHNICAL SERVICES SECTION	
DO NOT SCALE DIMENSIONS FROM THESE PLANS. DIMENSIONS SHOWN ON WRITTEN DIMENSIONS OR THE DRAWINGS SHALL TAKE PRECEDENCE OVER DIMENSIONS SHOWN ON THESE PLANS. IT IS INTENDED THAT THE DRAWINGS, DETAILS AND SPECIFICATIONS SHOULD BE APPROVED BY THE CONTRACTOR OR ANOTHER DESIGN PROFESSIONAL BEFORE THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE REPRESENTATIVE (SAR) BEFORE COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE REPRESENTATIVE (SAR) BEFORE COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE REPRESENTATIVE (SAR) BEFORE COMMENCING CONSTRUCTION.	
	
REVISIONS	DESCRIPTION
RELEASED BY	
DATE	
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STAMP:	
	
PROJECT TITLE: GENERATOR ATS AND CAMLOK HAPPY VALLEY FIRE CENTER (HVFC)	
855 CANYON ROAD, REDDING CA. 96001	
JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN
SHEET TITLE: TITLE SHEET	
SHEET NUMBER: T0.1	

BASIC SIGNAGE REQUIREMENTS FOR FIRE AND LIFE SAFETY

STORAGE TANK AND FLAMMABILITY AREAS: SIGNAGE AT GENERATOR & ADJACENT BUILDINGS, PER 2022 CFC 5704.2.3 AND 2022 NFPA 704.

NO SMOKING: SIGNAGE FOR DIESEL FUEL & ADJACENT BUILDINGS, PER 2022 CFC 5703.5.

PORTABLE FIRE EXTINGUISHERS, PER 2022 CFC 1203 CH. 57, 2022 CFC 1204.10, AND TITLE 19. A LISTED PORTABLE FIRE EXTINGUISHER COMPLYING WITH 906 WITH A MIN. RATING OF 2-A:20-B:C SHALL BE PROVIDED NOT MORE THAN 50 FEET FROM THE GENERATOR, PER 2022 CFC 1204.10.

OPTIONAL STANDBY GENERATORS

ITEM	SUBMITTAL REQUIREMENTS	SUBMITTAL RESPONSE	REFERENCE
1	PROXIMITY TO STRUCTURE & PROPERTY LINES	45 FEET FROM NEAREST BUILDING, 18 FEET FROM PROPERTY LINE	E0.5, E2.1
2	OPEN OR ENCLOSED ENCLOSURE	LEVEL 2 ENCLOSED ENCLOSURE, OUTDOORS GARDEN/PARKING LOT	E0.5, E2.1, E3.5, PDF ATTACHMENT
3	CLASS, LEVEL, TYPE AND PURPOSE	CLASS 24, LEVEL 2, TYPE 10, OPTIONAL STANDY-BY	PDF ATTACHMENT
4	LOCATION/PROTECTION OF TRANSFER SWITCHES	ATS & MTS LOCATED OUTDOORS, ADJACENT TO SWB'S AND BUILDINGS. PROTECTED BY SIDEWALKS AND GARDENS	E0.5, E2.1, E3.3
5	ELEVATION/LOCATION OF EXHAUST	LOCATED OUTDOORS - SEE DWG E0.5, E2.1, E3.5	E0.5, E2.1, E3.5
6	FUEL SOURCE TYPE, CONTENTS AND QUANTITY	DIRECT INJECTION: #2 DIESEL FUEL, FUEL FILTER (DUAL ELEMENT WITH WATER SEPARATOR), AUTOMATIC ELECTRIC FUEL SHUTOFF, 10.6 GAL/HR, 375 GALLON TANK	PDF ATTACHMENT
7	FUEL TANK LOCATION AND SET BACKS	LOCATED OUTDOORS/ATTACHED TO GENERATOR - SUB-BASE FUEL TANK, PROTECTED BY BUILDINGS AND GARDEN	E0.5, E2.1, E3.5
8	GENERATOR/TANK PAD DETAILS & LOAD CALCULATIONS	SEE ON DWG E0.4, E3.5, AND PDF ATTACHMENTS	E0.4, E3.5, PDF ATTACHMENT
9	SECONDARY CONTAINMENT	110% WELDED STEEL SPILL CONTAINMENT BASIN OF ONBOARD ENGINE FLUIDS, 5 GAL SPILL CONTAINMENT WITH OVERFILL PREVENTION VALVE AND VISUAL ALARM	E3.5, PDF ATTACHMENTS
10	PIPING TYPE, FITTING AND METHOD OF JOINING	PIPING TYPE, FITTING, AND METHOD OF JOINING N.A., PRE-INSTALLED & PACKAGED BY GENERATOR MANUFACTURER	PDF ATTACHMENT
11	VEHICLE IMPACT PROTECTION	VEHICLES ARE NOT ACCESSIBLE, ALREADY PROTECTED BY BOLLARDS AND GARDEN	E0.5, E2.1
12	GROSS AREA OF THE NEW IMPROVEMENTS	2515 SQ/FT	E0.5, E2.1

BASIC SIGNAGE REQUIREMENTS FOR FIRE AND LIFE SAFETY

STORAGE TANK AND FLAMMABILITY AREAS: SIGNAGE AT GENERATOR & ADJACENT BUILDINGS, PER 2022 CFC 5704.2.3 AND 2022 NFPA 704.

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PORTABLE FIRE EXTINGUISHERS, PER 2022 CFC 1203 CH. 57, 2022 CFC 1204.10, AND TITLE 19. A LISTED PORTABLE FIRE EXTINGUISHER COMPLYING WITH 906 WITH A MIN. RATING OF 2-A:20-B:C SHALL BE PROVIDED NOT MORE THAN 50 FEET FROM THE GENERATOR, PER 2022 CFC 1204.10.

OPTIONAL STANDBY GENERATORS

ITEM	SUBMITTAL REQUIREMENTS	SUBMITTAL RESPONSE	REFERENCE
1	PROXIMITY TO STRUCTURE & PROPERTY LINES	29 FEET 10 INCHES FROM NEAREST BUILDING, 5 FEET FROM PROPERTY LINE	E0.5, E2.2
2	OPEN OR ENCLOSED ENCLOSURE	LEVEL 2 ENCLOSED STEEL ENCLOSURE, OUTDOORS GARDEN	E2.2, E3.6, PDF ATTACHMENT
3	CLASS, LEVEL, TYPE AND PURPOSE	CLASS 24, LEVEL 2, TYPE 10, OPTIONAL STANDY-BY	PDF ATTACHMENT
4	LOCATION/PROTECTION OF TRANSFER SWITCHES	ATS & MTS LOCATED OUTDOORS, ADJACENT TO SWB'S AND BUILDINGS	E0.5, E2.2, E3.4
5	ELEVATION/LOCATION OF EXHAUST	LOCATED OUTDOORS - SEE DWG E0.5, E2.2, E3.6	E0.5, E2.2, E3.6
6	FUEL SOURCE TYPE, CONTENTS AND QUANTITY	DIRECT INJECTION: #2 DIESEL FUEL, FUEL FILTER (DUAL ELEMENT WITH WATER SEPARATOR), AUTOMATIC ELECTRIC FUEL SHUTOFF, 2.59 GAL/HR, 74 GALLON TANK	PDF ATTACHMENT
7	FUEL TANK LOCATION AND SET BACKS	LOCATED OUTDOORS/ATTACHED TO GENERATOR - SUB-BASE FUEL TANK, PROTECTED BY BUILDINGS AND GARDEN	E0.5, E2.2, E3.6
8	GENERATOR/TANK PAD DETAILS & LOAD CALCULATIONS	SEE ON DWG E0.4, E3.6, AND PDF ATTACHMENTS	E0.4, E3.6, PDF ATTACHMENT
9	SECONDARY CONTAINMENT	110% WELDED STEEL SPILL CONTAINMENT BASIN OF ONBOARD ENGINE FLUIDS, 5 GAL SPILL CONTAINMENT WITH OVERFILL PREVENTION VALVE (MANUF. OPTIONS)	E3.6, PDF ATTACHMENTS
10	PIPING TYPE, FITTING AND METHOD OF JOINING	PIPING TYPE, FITTING, AND METHOD OF JOINING N.A., PRE-INSTALLED & PACKAGED BY GENERATOR MANUFACTURER	PDF ATTACHMENT
11	VEHICLE IMPACT PROTECTION	VEHICLES ARE NOT ACCESSIBLE, ALREADY PROTECTED BY BUILDING AND FENCES	E0.5, E2.2
12	GROSS AREA OF THE NEW IMPROVEMENTS	1180 SQ/FT	E0.5, E2.2

1 TRIAGE LIST AND SIGNAGE REQUIREMENTS - SECTION A
T0.2 NO SCALE

2 TRIAGE LIST AND SIGNAGE REQUIREMENTS - SECTION B
T0.2 NO SCALE

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Memorandum

To: California Department of Forestry and Fire Protection (CAL FIRE) – Statewide

Date: October 14, 2020

From: The Office of the State Fire Marshal (OSFM) and CAL FIRE Technical Services Unit – Headquarters

Subject: Fire Stations Power Systems Guidelines for Optional Standby Generator Sizing

Summary:

This Memorandum of Understanding (MOU) is intended to establish CAL FIRE's guidelines for properly sizing standby generators in use at CAL FIRE Fire Stations. With this past agreement between CAL FIRE Technical Services and the State Fire Marshal Office becoming dated, it is the intent of this document to establish an updated, approved method, as allowed per California Electrical Code (CEC) Section 702.4 (B). This MOU is needed because CEC Section 702.4 (B)(2)(a) states that when using automatic transfer equipment with an Optional Standby System the source (generator) shall be capable of supplying the full load (total connected load) that is transferred by the automatic transfer equipment. Having a generator sized to the total connected load creates operational problems and increased maintenance costs, both of which stress the need to define an engineering-based strategy for sizing the standby generator. Further justification for an approved method is found in the actions of OSHPD who has adopted similar criteria for sizing hospital generators, per National Fire Protection Association (NFPA) 70 and CEC Section 517.30 (D).

Fire Station Building Code Analysis:

Emergency and standby power systems are designed to provide an alternate source of power if the normal source of power, generally the serving electric utility, fails due to a fault or a power outage. The classification of emergency and standby power systems is regulated by NFPA 70 and the CEC as follows:

Emergency Power Systems: NFPA 70 and CEC define such systems in article 700: "Those systems legally required and classified as emergency by municipal, state, federal, or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply illumination, power, or both, to designated areas and equipment in the

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event of failure of the normal supply or in an event of accident of elements of a system intended to supply, distribute, and control power and illumination essential for safety to human life."

Standby Power Systems: NFPA 70 and CEC divide standby power systems into two categories: Legally Required Standby Systems, defined in article 701, and Optional Standby Systems, defined in article 702. Those categories are defined as follows:

- Legally Required Standby Systems:** "Those systems required and so classed as legally required by municipal, state, federal, or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply power to selected loads (other than those classed as emergency systems) in the event of failure of the normal source.
 - Informational Note:** Legally required standby systems are typically installed to serve loads, such as heating and refrigeration systems, communications systems, ventilation and smoke removal systems, sewage disposal, lighting systems, and industrial processes, that, when stopped during any interruption of normal electrical supply, could create hazards or hamper rescue or fire-fighting operations."The above definition is in line with Section 702.2 of the California Building Code (CBC) and is intended to ensure that a building built/designated per CBC can be readily accessed by rescue personnel during an emergency at the building location and is referring to loads which when interrupted would hamper rescue or fire-fighting operations at the building in question. It does not refer to rescue or fire-fighting operations conducted by the building's occupants, away from the building.

- Optional Standby Systems:** "Those systems intended to supply power to public or private facilities or property where life safety does not depend on the performance of the system. These systems are intended to supply on-site generated power to selected loads either automatically or manually."

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Table 1, seen below, shows the fire station electrical loads that are essential for safety to human life, the code reference pertaining to their secondary source of power, and how compliance with the referenced code is achieved.

Table 1

Type of Load	Code Reference	Requires Secondary Source of Power	Requires Emergency Source of Power	Type of Secondary/Emergency Source of Power
The Alarm Control Panel secondary source of power	NFPA 70 2016 Ch. 10.6.7.3.1 (1), 10.6.10	Yes	No	Rechargeable Battery
Emergency Illumination of path of Egress	CBC 2019 Ch. 1008.3, 1008.3.2; NFPA 101 2018 Ch. 7.4.2.2	Yes	Yes	Luminaire with Emergency Battery pack
Emergency Illumination of Exit Sign	CBC 2019 Ch. 1013.6.3; NFPA 101 2018 Ch. 7.4.2.2	Yes	Yes	Luminaire with Rechargeable Ni-ca Emergency Battery
Emergency Illumination of Exterior Landings Area	NFPA 101 2018 Ch. 7.9.1.1, 7.9.1.2; CBC 2019 1008.3.2	Yes	Yes	Luminaire with Emergency Battery pack
Emergency Illumination of Electrical Room	CBC 2019 Ch. 1008.3.3	Yes	Yes	Luminaire with Emergency Battery pack
Emergency Illumination of Fire Pump Room	CBC 2019 Ch. 1008.3.3	Yes	Yes	Luminaire with Emergency Battery pack
Emergency Illumination of Generator Room	CBC 2019 Ch. 1008.3.3	Yes	Yes	Luminaire with Emergency Battery pack

Chapter 6.4 of 2019 NFPA 1221, the Standard for the Installation, Maintenance and Use of Emergency Services Communication Systems, requires fire station communication equipment to be provided with two independent and reliable sources of power. This applies to the Radio Kit, which includes the Informer alert receiver and PA system. In all current CAL FIRE projects, the Radio Kit and PA system are fed by normal power (utility) and uninterruptible power supplies (UPS).

Chapter 27, Section 2702.2 of the 2019 CBC documents where emergency and standby power systems shall be provided. This list includes: ambulatory care facilities, elevators and platform lifts, emergency responder radio coverage systems, emergency voice/alarm communication systems, exhaust systems, exit signs, gas detection systems, group I-2 occupancies, group I-3 occupancies, hazardous materials, high-rise buildings, laboratory suites, means of egress illumination, membrane structures, semiconductor fabrication facilities, smoke control systems, special purpose horizontal sliding, accordion or folding doors, underground buildings, and group I occupancy. Please note, the emergency responder radio coverage systems are installed in large complexes and high rises. We have

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contacted CAL FIRE Telecom and they have confirmed that CAL FIRE Fire Stations do not utilize emergency responder radio coverage systems. Neither fire stations or buildings of occupancy R-2 and S-2 are listed (R-2 and S-2 are the typical classifications for our fire stations and storage buildings). The only applicable items listed under Section 2702.2 are exit signs (2702.2.6) and means of egress illumination (2702.2.13), both of which are addressed via the methods described in Table 1.

Conclusions:

Per Chapter 27, Section 2702.2 of the 2019 CBC and Chapter 6.4 of 2019 NFPA 1221 all code required emergency electrical loads within our CAL FIRE Fire Stations are being supplied using emergency battery pack or UPS systems. Therefore, the generator we are providing is only supplying power to the remaining loads, which classifies it as an Optional Standby System. This is what necessitates an approved method to determine standby system capacity, allowed per CEC Section 702.4 (B).

Guidelines for Standby Generator Sizing and Run-Time:

CAL FIRE Technical Services conducted a study and analyzed the electrical load demand for several CAL FIRE Fire Stations. Based on those findings, CAL FIRE Technical Services adopted a generator sizing guideline to be instituted for all CAL FIRE Fire Station design projects. All standby generators installed in a CAL FIRE Fire Station shall be designed to supply the maximum demand load likely to be produced by the total connected load. The maximum demand load shall be calculated as follows:

- 80% of the total connected lighting loads
- 60% of the total connected power loads
- 75% of the domestic water distribution booster pump load (if applicable)
- 40% of the connected Heating, Ventilation, Air Conditioning (HVAC) loads

The Generator maximum demand load shall be 80% of the sum of the above listed loads, if a domestic water distribution pump is not used at the facility.

The Generator maximum demand load shall be 85% of the sum of the above listed loads if a domestic water distribution pump is used.

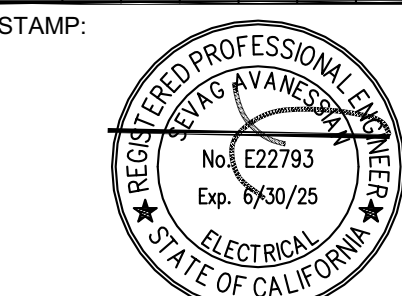
The Generator shall have a minimum operating run-time duration of 24 hours.

Approval and Signatures:

Based on the analysis of code sections and standby generator sizing guidelines outlined in this memo, designing and installing an Optional Standby Systems in CAL FIRE Fire Stations meets all relevant codes, offers the lowest design, construction, and maintenance costs, and creates synergy between past, present, and future designs. This document has been reviewed and approved by State Fire Marshal Division Chief, Steve Guarino and by CAL FIRE Technical Services Chief, Mike Duggan.

Mike Duggan
Mike Duggan
Technical Services Chief

Steve Guarino
Steve Guarino
State Fire Marshal Division Chief



PROJECT TITLE:
GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

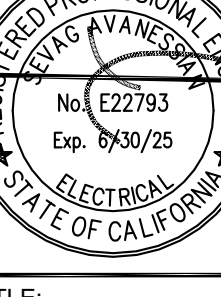
855 CANYON ROAD, REDDING CA, 96001

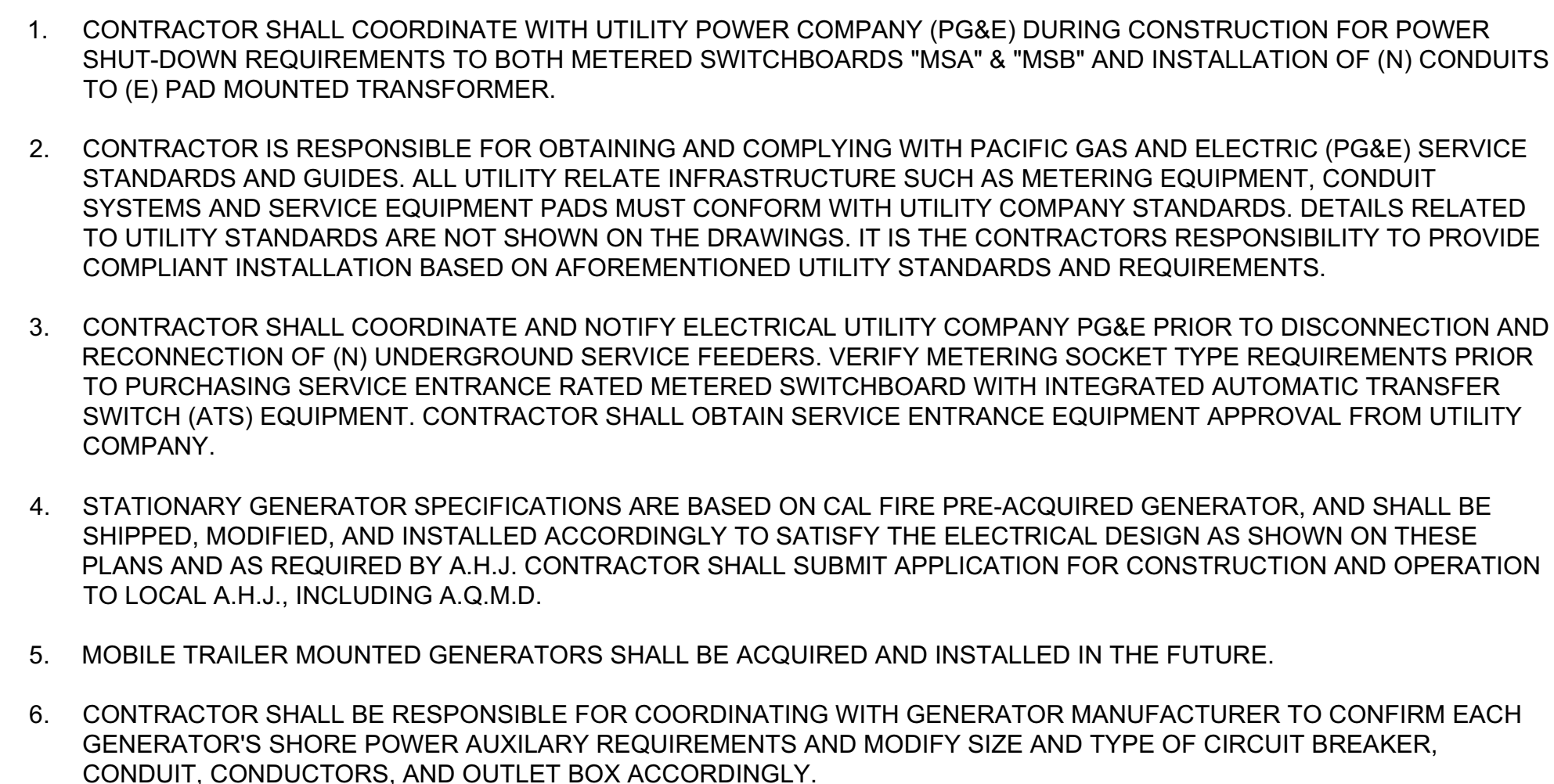
JOB NUMBER: 24901-8
DESIGNED BY: O.N.
DRAWN BY: O.N.
REVIEWED BY: S.A.
FILE DATE: 02/06/2025
SCALE: AS SHOWN

SHEET TITLE:
STATE FIRE MARSHAL TRIAGE LIST AND SIGNAGE REQUIREMENTS

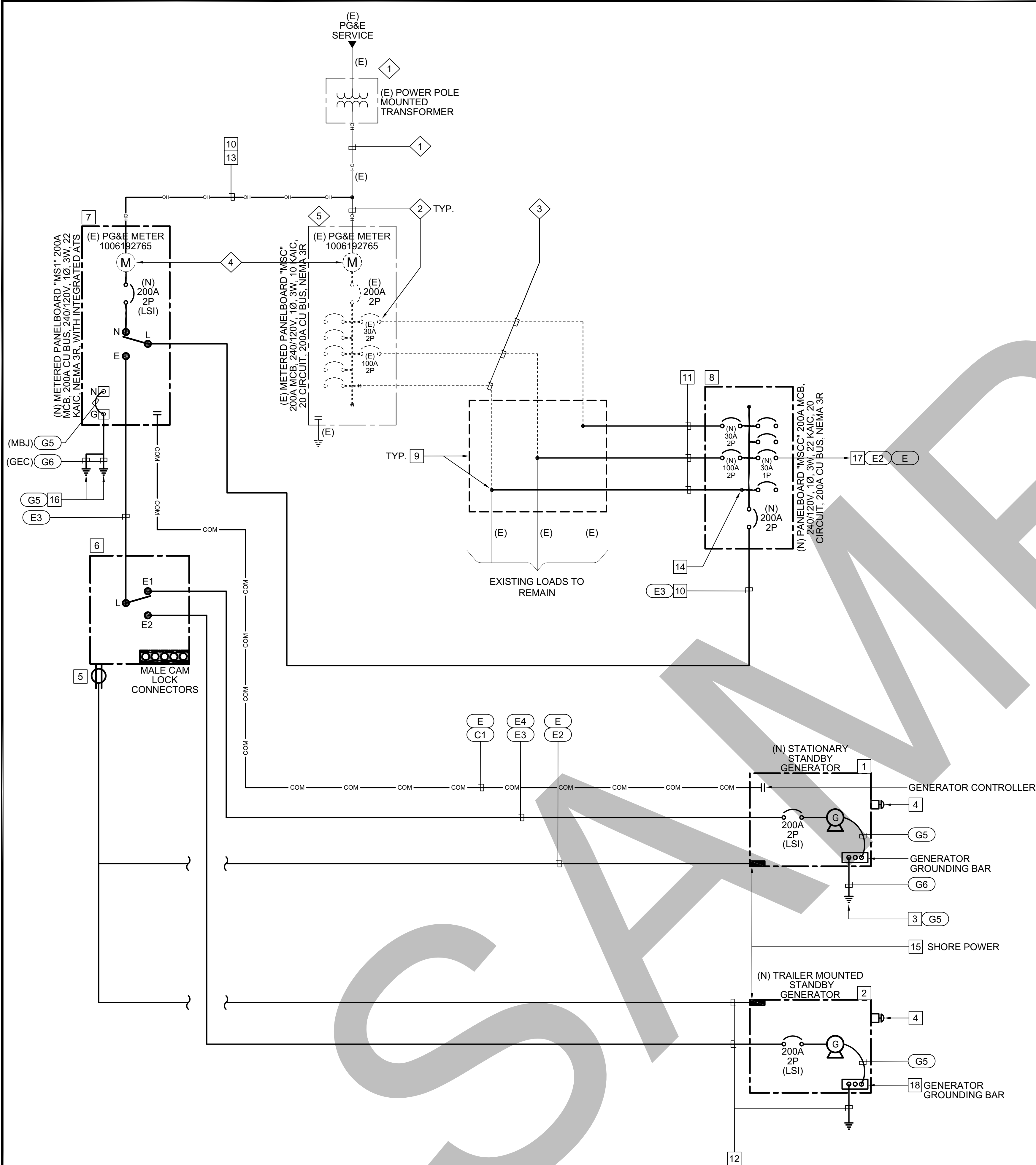
SHEET NUMBER:

T0.2

									
DSA STAMP									
OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY  D4108/25 25-0516 SINCE 1885 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.									
 TECHNICAL SERVICES SECTION DO NOT SCALE DIMENSIONS FROM THESE PLANS. FORMED OR WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER SHOWN DIMENSIONS IF IT INTENDS THAT THE DRAWING DETAILS AND SPECIFICATIONS SHOULD AGREE. SHOULD ANY DISCREPANCY OR APPARENT ERROR OCCUR, THE CONTRACTOR SHALL NOTIFY THE OFFICE IMMEDIATELY BY TELEPHONE. IN CASE OF DISCREPANCIES FAVORING THE STATE'S REPRESENTATIVE SHALL OBTAIN CLARANCE FROM THE DESIGNER AS SECOND TO AVOIDIFY THIS PROGRAM AND IMPROVE QUALITY. BE FINAL DEVIATION FROM THE APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.									
JCCA Architects • Engineers 385 VAN NESS AVE., SUITE 208, TORRANCE, CA. 90501 P. 310.212.7644 I F.310.212.5272									
REVISIONS	DESCRIPTION	RELEASED BY	DATE	NO					
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STAMP:									
									
PROJECT TITLE: GENERATOR ATS AND CAMLOK									
HAPPY VALLEY FIRE CENTER (HVFC)									
855 CANYON ROAD, REDDING CA. 96001									
JOB NUMBER:	24901-B								
DESIGNED BY:	O.N.								
DRAWN BY:	O.N.								
REVIEWED BY:	S.A.								
FILE DATE:	02/06/2025								
SCALE:	AS SHOWN								
SHEET TITLE: ELECTRICAL COVER SHEET									
SHEET NUMBER: E0.1									



E0.2



1
E0.3 SINGLE LINE DIAGRAM - DEMOLITION AND NEW WORK
NO SCALE

NEW WORK KEYNOTES:

- 1 PROVIDE (1) 30kW/38kVA OPTIONAL STANDBY STATIONARY DIESEL GENERATOR RATED 240/120V, 1PH, 3W. PROVIDE A NEMA 3, LEVEL 2, SOUND ATTENUATED ALUMINUM ENCLOSURE AND A 24HR SUB-BASE FUEL TANK WITH A SECONDARY SPILL CONTAINMENT TANK. GENERATOR MANUFACTURER SHALL DELIVER ON SITE COMPLETE WITH WIRING TO BLOCK HEATER, BATTERY CHARGER, ETC.
- 2 PROVIDE ALL NECESSARY PROVISIONS TO INSTALL (1) FUTURE 30kW/38kVA TRAILER MOUNTED OPTIONAL STANDBY MOBILE DIESEL GENERATOR RATED 240/120V, 1PH, 3W. EQUIPMENT SHALL BE ACQUIRED AND INSTALLED IN THE FUTURE. GENERATOR MANUFACTURER SHALL DELIVER ON SITE COMPLETE WITH WIRING TO BLOCK HEATER, BATTERY CHARGER, ETC.
- 3 PROVIDE MINIMUM 25' OF CONTINUOUS CONCRETE ENCASED BARE COPPER CONDUCTOR TO BE EXOTHERMIC WELDED TO REBAR & EQUIPMENT ENCLOSURE.
- 4 MANUFACTURER SHALL PROVIDE EMERGENCY LOCKOUT SWITCH AND SHALL BE DELIVERED ON SITE COMPLETE WITH WIRING TO SWITCH. EMERGENCY SHUT DOWN OF PRIME MOVER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 5 PROVIDE (1) 30A, 120V, 1P, 2W OUTLET BOX, NEMA TT-30R RV RECEPTACLE, WITH NEMA 3R LOCKABLE ENCLOSURE. MOUNT OUTLET TO EXTERIOR OF MTS AND SPLICE POWER CONDUCTORS TO BOTH STATIONARY AND TRAILER MOUNTED GENERATORS. TERMINATE CONDUCTORS AT GENERATOR'S SHORE POWER AUXILIARY LOAD DISTRIBUTION TERMINAL BLOCK.
- 6 PROVIDE (1) MANUAL TRANSFER SWITCH (MTS) 200A, 240/120V, 1PH, 3W, NEMA 3R, WITH QUICK CONNECT CAM-LOK PORTS FOR FUTURE PORTABLE GENERATOR.
- 7 PROVIDE (1) METERED PANELBOARD RATED 200A, 240/120V, 1PH, 3W, 22KAIC, NEMA 3R, WITH INTEGRATED AUTOMATIC TRANSFER SWITCH (ATS) AND MAIN DISCONNECT RATED 200A, 240/120V, 1PH. BOND NEUTRAL TO GROUND AT SERVICE ENTRANCE.
- 8 PROVIDE (1) DISTRIBUTION PANELBOARD RATED 200A, 240/120V, 1PH, 3W, 22KAIC, NEMA 3R, 20 CIRCUIT, WITH CIRCUIT BREAKERS SIZED AS SHOWN ON SINGLE LINE DIAGRAM.
- 9 PROVIDE 12"x12"x6" NEMA 3R JUNCTION BOX. SPLICE CONDUCTORS USING INSULATED MULTI-TAP CONNECTORS (OR APPROVED EQUAL) FOR EACH PHASE CONDUCTOR.
- 10 EXTEND NEUTRAL AND GROUNDING EQUIPMENT CONDUCTORS TO PANELBOARD'S NEUTRAL AND GROUNDING BUS BAR TERMINALS.
- 11 EXTEND (E) CONDUITS AND CONDUCTORS FROM JUNCTION BOX TO DISTRIBUTION PANELBOARD. TERMINATE CONDUITS AND CONDUCTORS TO THERE (E) BREAKER SIZES. PROVIDE FULLY RATED CIRCUIT BREAKERS SIZED AS SHOWN ON SINGLE LINE DIAGRAM TO MATCH (E) CONDITIONS.
- 12 PROVIDE 50' HEAVY DUTY GENERATOR CABLES. COORDINATE WITH GENERATOR AND MTS EQUIPMENT MANUFACTURER FOR RECOMMENDED TYPE, SIZE, AND QUANTITY.
- 13 EXTEND (E) CONDUITS AND CONDUCTORS TO (N) LOCATION. PROVIDE CONDUITS WITH PULL STRING. CONDUCTORS ARE PROVIDED, SIZED, AND INSTALLED BY UTILITY COMPANY.
- 14 PROVIDE SUB-FEED TERMINAL LUG KIT PER PHASE FOR NEW FEEDERS TO TAP ON 200A BUS BAR THAT IS COMPATIBLE WITH PANELBOARD TO MATCH (E) CONDITIONS.
- 15 PROVED POWER SUPPLY TO GENERATOR SHORE POWER AUXILIARY LOAD DISTRIBUTION TERMINAL BLOCK. GENERATOR MANUFACTURER SHALL DELIVER ONSITE COMPLETE WITH WIRING TO BLOCK HEATER, BATTERY CHARGER, ETC.
- 16 PROVIDE GROUND RODS AND GROUNDING ELECTRODE CONDUCTOR. REFER TO GROUNDING DETAILS SHOWN ON SHEET E3.1.
- 17 PROVIDE (1) 30A, 120V, 1P, 2W CIRCUIT BREAK TO SUPPLY OUTLET BOX, NEMA TT-30R RV RECEPTACLE.
- 18 EXTEND GROUNDING GENERATOR CABLE FROM MTS TO FEMALE CAM STYLE LOCKING RECEPTACLE ON GENERATOR. ENSURE MANUFACTURER HAS BONDED NEUTRAL CONDUCTOR TO GENERATOR FRAME. GENERATOR FRAME IS BONDED TO THE VEHICLE AND OR TRAILER FRAME, AND EGC TERMINAL OF RECEPTACLES ARE CONNECTED TO GENERATOR FRAME.

FEEDER SCHEDULE KEYNOTES:

REFER TO FEEDER SCHEDULE KEYNOTES (--) ON SHEET E0.4 FOR CONDUIT AND CONDUCTOR SIZES.

DEMOLITION KEYNOTES:

- 1 PROTECT IN PLACE.
- 2 DISCONNECT (E) CONDUITS AND CONDUCTORS FROM PANELBOARD "MSC". PROVIDE SUFFICIENT SLACK TO RELOCATE TO (N) LOCATIONS AS SHOWN IN NEW WORK PLAN.
- 3 EXCAVATE PORTION OF GRAVEL FLOOR UNTIL UNDERGROUND CONDUIT AND CONDUCTORS ARE ACCESSIBLE TO RE-ROUTE AS SHOWN IN NEW WORK KEYNOTES.
- 4 DISCONNECT (E) UTILITY METER FROM OLD PANELBOARD AND RECONNECT ONTO NEW SERVICE ENTRANCE RATED METERED PANELBOARD "MSC" WITH AN INTEGRATED AUTOMATIC TRANSFER SWITCH (ATS).
- 5 DISCONNECT AND DEMOLISH EQUIPMENT.

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH UTILITY POWER COMPANY (PG&E) DURING CONSTRUCTION FOR POWER SHUT-DOWN REQUIREMENTS TO METERED PANELBOARD AND INSTALLATION OF (N) METERED PANELBOARD, CONDUITS, AND CONDUCTORS.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH PACIFIC GAS AND ELECTRIC (PG&E) SERVICE STANDARDS AND GUIDES. ALL UTILITY RELATE INFRASTRUCTURE SUCH AS METERING EQUIPMENT, CONDUIT SYSTEMS AND SERVICE EQUIPMENT PADS MUST CONFORM WITH UTILITY COMPANY STANDARDS. DETAILS RELATED TO UTILITY STANDARDS ARE NOT SHOWN ON THE DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE COMPLIANT INSTALLATION BASED ON AFOREMENTIONED UTILITY STANDARDS AND REQUIREMENTS.
3. CONTRACTOR SHALL COORDINATE AND NOTIFY ELECTRICAL UTILITY COMPANY PG&E PRIOR TO DISCONNECTION AND RECONNECTION OF (N) UNDERGROUND SERVICE FEEDERS. VERIFY METERING SOCKET TYPE REQUIREMENTS PRIOR TO PURCHASING SERVICE ENTRANCE RATED METERED PANELBOARD WITH INTEGRATED AUTOMATIC TRANSFER SWITCH (ATS) EQUIPMENT. CONTRACTOR SHALL OBTAIN SERVICE ENTRANCE EQUIPMENT APPROVAL FROM UTILITY COMPANY.
4. STATIONARY AND MOBILE TRAILER MOUNTED GENERATORS SHALL BE ACQUIRED AND INSTALLED IN THE FUTURE. SCOPE OF WORK IS ONLY LIMITED TO INSTALLATION OF (N) DISTRIBUTION PANELBOARD WITH AUTOMATIC TRANSFER SWITCH, MANUAL TRANSFER SWITCH WITH CAM LOK PORTS, CONDUITS AND CONDUCTORS. GENERATORS SHALL BE SHIPPED, MODIFIED, AND INSTALLED ACCORDINGLY TO SATISFY THE ELECTRICAL DESIGN AS SHOWN ON THESE PLANS AND AS REQUIRED BY A.H.J. CONTRACTOR SHALL SUBMIT APPLICATION FOR CONSTRUCTION AND OPERATION TO LOCAL A.H.J., INCLUDING A.Q.M.D.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH GENERATOR MANUFACTURER TO CONFIRM EACH GENERATOR'S SHORE POWER AUXILIARY REQUIREMENTS AND MODIFY SIZE AND TYPE OF CIRCUIT BREAKER, CONDUIT, CONDUCTORS, AND OUTLET BOX ACCORDINGLY.

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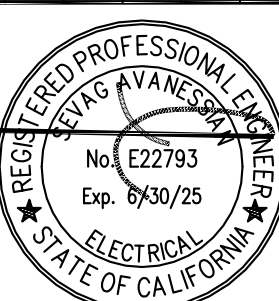


TECHNICAL SERVICES SECTION
DO NOT SCALE DIMENSIONS FROM THESE PLANS. FOR ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS IF IT IS INTENDED THAT THE DRAWINGS, DETAILS AND SPECIFICATIONS SHOULD AGREE. VERIFY THE EXISTENCE OF ANYWHERE BEFORE THE CONTRACTOR SHALL OBTAIN THE STATE'S REPRESENTATIVE SHALL BEER COUNCIL FROM THE DESIGNER OF RECORD TO RESOLVE THE PROBLEM AND APPROVE. SHALL BE FINAL. APPROVAL OF THE PLANS DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
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REVISIONS

NO.	DATE	RELEASED BY	DESCRIPTION

STAMP:



PROJECT TITLE:
GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

855 CANYON ROAD, REDDING
CA. 96001

JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN

SHEET TITLE:
ELECTRICAL SINGLE LINE
DIAGRAM - SECTION B

SHEET NUMBER:

E0.3

LOAD SUMMARY - SWITCHBOARD "MSA" AND "MSB"			
LOAD DESCRIPTION		VOLT-AMP	AMPS
FACILITY PEAK DEMAN LOAD (METER #1009889453) METER "MSA"	=	60800	168.76888
25% DEMAND FACTOR PER NEC 220.87 (2)	=	15200	42.192219
FACILITY PEAK DEMAN LOAD (METER #1009889369) METER "MSB"	=	68800	190.97531
25% DEMAND FACTOR PER NEC 220.87 (2)	=	17200	47.743827
TOTAL FACILITY PEAK DEMAND LOAD OF "MSA" AND "MSB"	=	129600	359.74418
(N) GENERATOR SHORE POWER AUXILIARY LOAD	=	12000	14.43418
TOTAL FACILITY CONNECTED LOAD @208V, 3Ø	=	141600	170.32333
(E) SERVICE SIZE @600A, 208/120V, 3PH, 4W IS ADEQUATE TO SERVE FACILITY LOADS			
GENERATOR RUNNING CONNECTED LOAD @208V, 3Ø	=	141600	170.32333
RECOMMENDED GENERATOR SIZE @150kW/188kVA, 208/120V, 3PH, 4W			

1
E0.4

LOAD SUMMARY CALCULATIONS - SECTION A

NO SCALE

LOAD SUMMARY - PANELBOARD "MSC"			
LOAD DESCRIPTION		VOLT-AMP	AMPS
ASSUMED FACILITY PEAK DEMAN LOAD (METER #1006192765) METER "MSC"	=	22000	91.666667
25% DEMAND FACTOR PER NEC 220.87 (2)	=	5500	22.916667
TOTAL FACILITY PEAK DEMAND LOAD OF "MSC"	=	27500	114.58333
(N) GENERATOR SHORE POWER AUXILIARY LOAD	=	6000	25
TOTAL FACILITY CONNECTED LOAD @240V, 1Ø	=	33500	139.58333
(E) SERVICE SIZE @200A, 240/120V, 1PH, 3W IS ADEQUATE TO SERVE FACILITY LOADS			
GENERATOR RUNNING CONNECTED LOAD @240V, 1Ø	=	33500	139.58333
RECOMMENDED GENERATOR SIZE @30kW/38kVA, 240/120V, 1PH, 3W			

2
E0.4

LOAD SUMMARY CALCULATIONS - SECTION B

NO SCALE

FEEDER SCHEDULE KEYNOTES:

- EE

PROVIDE: (1) 3°C - SPARE WITH PULL STRING.
- E

PROVIDE: (1) 1°C - SPARE WITH PULL STRING.
- E1

PROVIDE: (2) 3°C - 4#350KCMIL + 1#1 GND.
- E2

PROVIDE: (1) 1°C - 2#10 + 1#10 GND.
- E3

PROVIDE: (1) 2°C - 3#3/0 + 1#6 GND.
- E4

PROVIDE: (1) 2°C - SPARE WITH PULL STRING.
- C1

PROVIDE: (1) 1°C - WITH CONTROL WIRING FOR GENERATOR CONNECTION TO A.T.S. FOR START/STOP SIGNALING. PROVIDE CONTROL WIRING PER MFG RECOMMENDATION.
- U

PROVIDE: (4) 5°C - WITH PULL STRING. CONDUCTORS SHALL BE PROVIDED AND INSTALLED BY UTILITY COMPANY. REFER TO PG&E SERVICE PLANNING DOCUMENTS.
- G1

PROVIDE: (1) 1#3/0 CONTINUOUS BARE COPPER.
- G2

PROVIDE: (1) 1°C - 1#3/0 CONTINUOUS BARE COPPER.
- G3

PROVIDE: (1) 1#2/0 CONTINUOUS BARE COPPER.
- G4

PROVIDE: (1) 1°C - 1#2/0 CONTINUOUS BARE COPPER.
- G5

PROVIDE: (1) 1#4 CONTINUOUS BARE COPPER.
- G6

PROVIDE: (1) 3/4°C - 1#4 CONTINUOUS BARE COPPER.

KEYNOTE SYMBOL CLARIFICATION	
SYMBOL	DESCRIPTION
-- OR -- (#)	SUBSCRIPT "#" INDICATES THE QUANTITY OF FEEDER SCHEDULE KEYNOTES.

FEEDER SCHEDULE NOTES:

1. PROVIDE LOW-VOLTAGE COMMUNICATION CONDUCTORS FOR ALL FEEDER KEYNOTES DENOTING

C#

. COORDINATE WITH MANUFACTURER OF EACH PRODUCT REQUIRING LOW-VOLTAGE CONDUCTORS TO VERIFY SIZE, QUANTITY, AND INSTALLATION REQUIREMENTS.
2. ALL FEEDER KEYNOTES DENOTING

U

, INDICATE UTILITY. COORDINATE WITH UTILITY COMPANY FOR VERIFICATION OF CONDUIT AND CONDUCTOR SIZE, TYPE, QUANTITY, AND INSTALLATION REQUIREMENTS.

3
E0.4

FEEDER SCHEDULE

NO SCALE

GENERAL NOTES:

1. ALL (E) EQUIPMENT IS TO REMAIN AND BE PROTECTED IN PLACE UNLESS NOTED. ALL (E) UNDERGROUND AND ABOVEGROUND FEEDERS WHETHER SHOWN OR NOT ON THIS PLAN SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
2. PROVIDE EXTENSIVE SIGNAGE AT EVERY ELECTRICAL ENCLOSURE TO IDENTIFYING THE POWER SOURCE AND RATING OF THE CONDUCTORS DUE TO MULTIPLE POWER SOURCES.
3. ALL (N) BREAKERS SHALL MATCH MAKE AND MODEL OF (E) SWITCHBOARD/PANELBOARD, BE FULLY RATED, AND SIZED AS SHOWN ON SINGLE LINE DIAGRAM.
4. REFER TO DETAILS ON E3.1 FOR ELECTRICAL SYSTEM AND GROUNDING DETAILS. REFER TO ELECTRICAL NEW WORK PLANS ON SHEET E2.1 AND E2.2 FOR FURTHER INFORMATION SUCH AS GROUND UFER LOCATION. GROUNDING SYSTEM IS SHOWN DIAGRAMMATICALLY. PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE GROUNDING SYSTEM TO ALL ELECTRICAL ENCLOSURE AND DEVICES.
5. ALL SPARE CONDUITS SHALL BE CAPPED OFF AND LABELED FOR FUTURE USE.
6. ALL SPARE AND ABANDONED CIRCUITS BREAKERS SHALL BE LABELED AS SPARE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LENGTHS IN FIELD AND MAKING ADJUSTMENTS ACCORDINGLY. CONDUIT ROUTINGS ARE DIAGRAMMATICALLY REPRESENTING A PROPOSED LOCATION OF TRENCH. IF THERE ARE OBSTRUCTIONS IN PATH, USE FACTORY 22.5°, 45°, AND 90° BENDS AS NEEDED TO OFFSET OBJECTS IN PATH. DO NOT EXCEED MORE THAN 360° BENDS.
8. CAREFULLY COORDINATE POWER SHUT-DOWN REQUIREMENTS WITH CALFIRE REPRESENTATIVES.
9. ALL UTILITIES ON THIS SHEET ARE SHOWN FOR REFERENCE. PROVIDE UTILITY CONDUITS PER PG&E ELECTRICAL SERVICE REQUIREMENTS (PG&E ESR). CAREFULLY COORDINATE WORK WITH EXISTING UTILITIES. PERFORM ALL REQUIRED SITE INVESTIGATION TO AVOID INTERFERENCE WITH OTHER UTILITIES.
10. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE POWER SYSTEM STUDY TO INCLUDE SHORT CIRCUIT STUDY, COORDINATION STUDY AND ARC FLASH STUDY. STUDY MUST BE BASED ON AVAILABLE FAULT INFORMATION OBTAINED FROM THE UTILITY COMPANY AND APPROVED ELECTRICAL EQUIPMENT AND MATERIAL SUBMITTALS. AFTER ALL DOCUMENTS HAVE BEEN REVIEW AND APPROVED, CONTRACTOR MUST PROVIDE AND APPLY ARC FLASH LABELING TO ALL RELEVANT EQUIPMENT ON SITE. ARC FLASH LABELS MUST BE APPLIED TO ALL POWER DISTRIBUTION EQUIPMENT, INCLUDING BUT NOT LIMITED TO METERING EQUIPMENT, GENERATORS, SWITCHBOARDS AND EXISTING PANELBOARDS.
11. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PG&E ELECTRICAL SERVICE STANDARDS AND GUIDES. ALL UTILITY RELATE INFRASTRUCTURE SUCH AS METERING EQUIPMENT, CONDUIT SYSTEMS AND SERVICE EQUIPMENT PADS MUST CONFORM WITH UTILITY COMPANY STANDARDS. DETAILS RELATED TO UTILITY STANDARDS ARE NOT SHOWN ON THE DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE COMPLIANT INSTALLATION BASED ON AFOREMENTIONED UTILITY STANDARDS AND REQUIREMENTS.
12. PROVIDE AVAILABLE FAULT CURRENT FIELD MARKINGS ON ALL ELECTRICAL EQUIPMENT AS REQUIRED TO COMPLY WITH 2022 CEC 110.24.

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION

04/08/25

25-0516

SINCE 1915

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION

CAL FIRE

SINCE 1915

TECHNICAL SERVICES SECTION

DO NOT SCALE DIMENSIONS FROM THESE PLANS. FOUNDED ON WRITTEN DIMENSIONS ON THE DRAWINGS. SHALL HAVE PRECEDENCE OVER GRAPHIC DIMENSIONS. IT IS INTENDED THAT THE DRAWINGS, DETAILS AND SPECIFICATIONS SHOULD AGREE. SHOULD ANY DISCREPANCY OR AMBIGUITY EXIST, THE CONTRACTOR SHALL NOTIFY THE STATE REPRESENTATIVE AT ONCE AFTER RECEIPT OF CORRECTIONS. CONSIDERS THE STATE'S REPRESENTATIVE SHALL BEAR CULLENCE FROM THE DESIGNER OR RECORDS TO RESOLVE THE DISCREPANCY. TECHNICAL SERVICES SHALL BE AVAILABLE ON THE PROJECT SITE FOR APPROVAL OF THE PLANS DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

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P: 310.212.7644 I F: 310.212.5272

REV/SIONS	DESCRIPTION	RELEASED BY	DATE	NO							

STAMP:

REGISTERED PROFESSIONAL ENGINEER

NO. E22793

EXP. 09/30/25

ELECTRICAL

STATE OF CALIFORNIA

PROJECT TITLE:
GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

855 CANYON ROAD, REDDING
CA. 96001

JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN

SHEET TITLE:
ELECTRICAL LOAD CALCULATIONS AND FEEDER SCHEDULES

SHEET NUMBER:
E0.4

100% CONSTRUCTION DOCUMENTS - V1

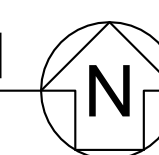
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CA FILE L:\2024\24901-8 Generator ATS and Camlock Happy Valley Fire Center (HVFC)\CAD\249018_E04.dwg

1. MAINTAIN REQUIRED STAND OFF DISTANCE FOR GENERATOR POSITION AS REQUIRED IN ACCORDANCE WITH TABLE 22.4.1.1(A) OF NFPA 30 AND 2022 CFC 5704.2.9.6.1.1.

SEE SHEET E1.2 - ELECTRICAL DEMOLITION ENLARGED SITE PLAN - SECTION B
SEE SHEET E2.2 - ELECTRICAL NEW WORK ENLARGED SITE PLAN - SECTION B

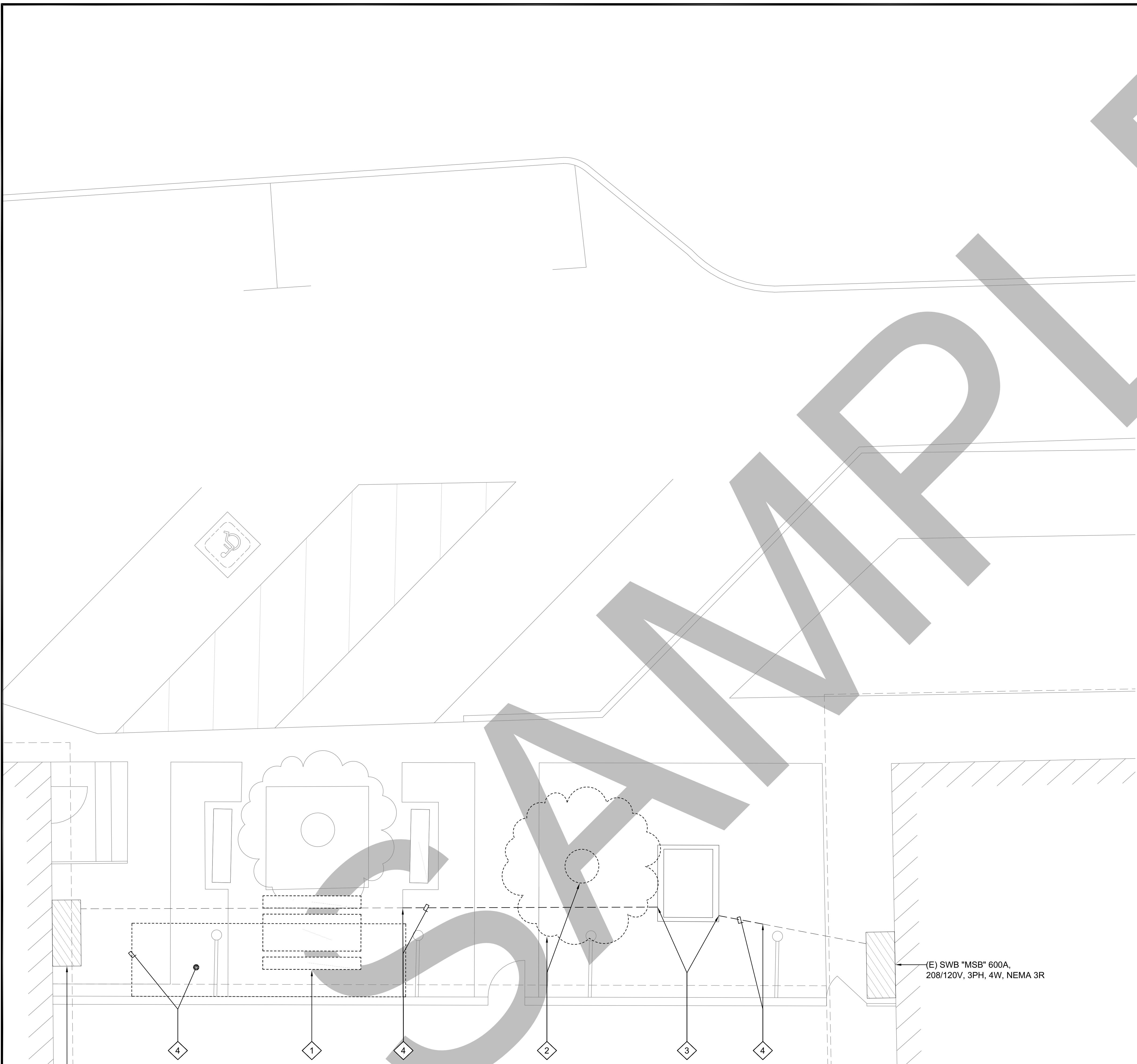
SEE SHEET E1.1 - ELECTRICAL DEMOLITION ENLARGED SITE PLAN - SECTION A
SEE SHEET E2.1 - ELECTRICAL NEW WORK ENLARGED SITE PLAN - SECTION A

SCALE: 0 5 25 50 FEET 100
1" = 50'



E0.5

DATE/TIME: 08-Feb-2025 03:59PM
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DEMOLITION KEYNOTES:

- 1 DISCONNECT (E) BENCH AND HAND OVER TO CLIENT FOR SAFE KEEPING. COORDINATE WITH PROJECT MANAGER TO RELOCATE BENCH TO NEW LOCATION.
- 2 DEMOLISH (E) TREE.
- 3 DISCONNECT CONDUCTORS FROM PAD MOUNTED TRANSFORMER AND ABANDON UNDERGROUND CONDUITS IN PLACE. CAP OFF ALL ABANDONED CONDUITS.
- 4 EXCAVATE PORTION OF GRAVEL FLOOR UNTIL UNDERGROUND FEEDER CONDUITS AND CONDUCTORS ARE ACCESSIBLE TO PLACE NEW HANDHOLE. CUT THE UNDERGROUND CONDUIT TO TERMINATE WITHIN NEW HANDHOLE AND PROTECT CONDUCTORS IN PLACE. COIL ADDITIONAL SLACK FROM CONDUCTORS INSIDE HANDHOLE FOR EASY ACCESS TO RE-ROUTE CONDUCTORS AS SHOWN IN NEW WORK PLAN.
- 5 PROVIDE ALL REQUIRED SITE PREPARATIONS NEEDED FOR NEW WORK. CLEAR GROUND AREA OF BUSHES, GRAVEL, AND CONCRETE PAVERS. DEMOLISH AND SAW CUT (E) CONCRETE PADS AND FOUNDATIONS AS NEEDED FOR NEW WORK.

GENERAL NOTES:

1. MAINTAIN CONTINUITY TO ALL EXISTING FEEDERS AND BRANCH CIRCUITS SERVING LOADS NOT IN THE SCOPE OF DEMOLITION. PORTIONS OF EXISTING CIRCUITS WITH LOADS THAT ARE NOT TO BE DEMOLISHED MUST STAY IN SERVICE UNLESS NOTED OTHERWISE.

ELECTRICAL DEMOLITION ENLARGED SITE PLAN - SECTION "A"

SCALE: 0 1 2 4 FEET 8
1/4" = 1'-0"

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NO.	DATE	RELEASED BY	DESCRIPTION						
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STAMP:
REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
No. E22793
Exp. 03/30/25
ELECTRICAL
STATE OF CALIFORNIA

PROJECT TITLE:
GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

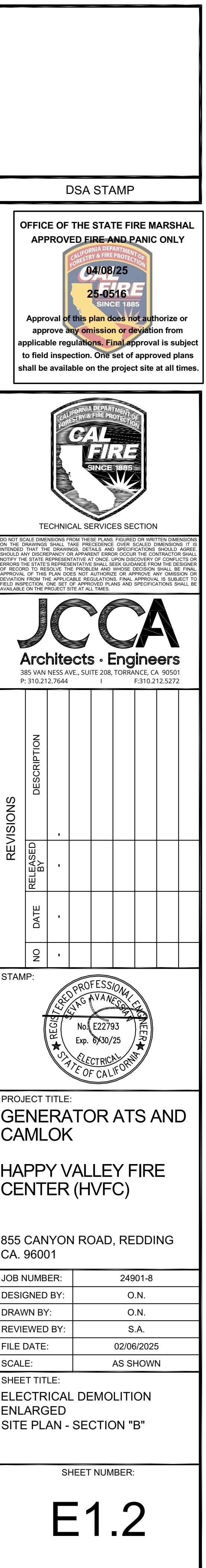
855 CANYON ROAD, REDDING CA. 96001

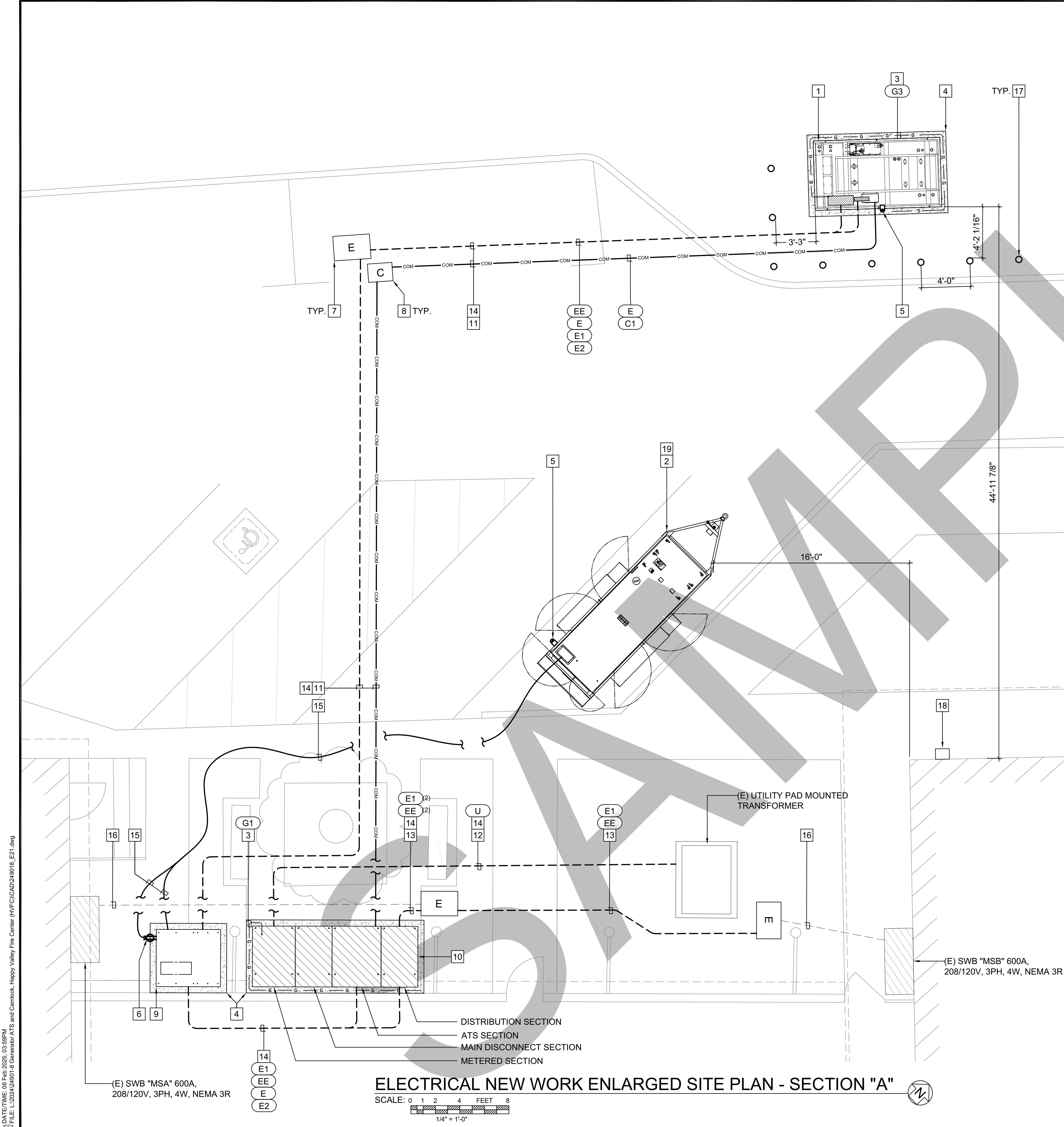
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SCALE:	AS SHOWN

SHEET TITLE:
ELECTRICAL DEMOLITION ENLARGED SITE PLAN - SECTION "A"

SHEET NUMBER:

E1.1





NEW WORK KEYNOTES:

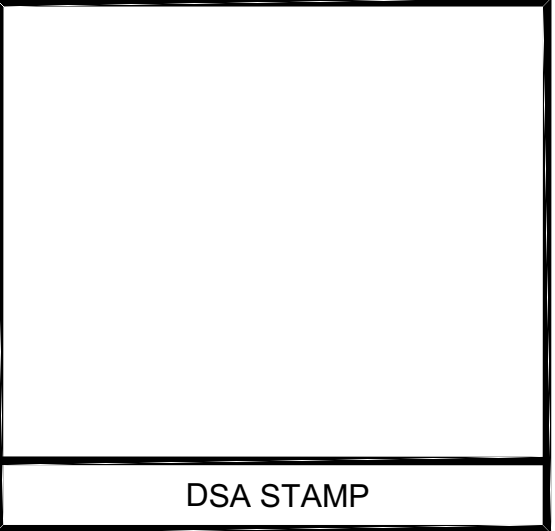
- 1 PROVIDE (1) 150kW/188kVA OPTIONAL STANDBY STATIONARY DIESEL GENERATOR RATED 208/120V, 3PH, 4W.
- 2 PROVIDE ALL NECESSARY PROVISIONS TO INSTALL (1) FUTURE 150kW/188kVA TRAILER MOUNTED OPTIONAL STANDBY MOBILE DIESEL GENERATOR RATED 208/120V, 3PH, 4W.
- 3 PROVIDE GROUNDING ELECTRODE CONDUCTOR, SIZED AS SHOWN ON FEEDER SCHEDULE. REFER TO DETAIL 1/E3.1.
- 4 PROVIDE EQUIPMENT CONCRETE PAD.
- 5 MANUFACTURER SHALL PROVIDE EMERGENCY LOCKOUT SWITCH.
- 6 PROVIDE (1) 30A, 120V, 1P, 2W OUTLET BOX, NEMA TT-30R RV RECEPTACLE.
- 7 PROVIDE 24"x36"x24" CONCRETE HAND HOLE. SEE DETAIL 6/E3.2.
- 8 PROVIDE 18"x24"x24" CONCRETE HAND HOLE. SEE DETAIL 2/E3.2.
- 9 PROVIDE (1) MANUAL TRANSFER SWITCH (MTS) 1200A, 208/120V, 3PH, 4W, NEMA 3R, WITH QUICK CONNECT CAM-LOK PORTS
- 10 PROVIDE (1) METERED SWITCHBOARD RATED 1200A, 208/120V, 3PH, 4W, NEMA 3R, WITH INTEGRATED AUTOMATIC TRANSFER SWITCH (ATS) AND DISTRIBUTION SECTION.
- 11 SAW CUT (E) ASPHALT DRIVEWAY AND CONCRETE SIDEWALK AS NEEDED TO TRENCH DUCK BANK. REPAIR GROUND LEVEL FOUNDATION TO MATCH (E) CONDITIONS.
- 12 PROVIDE CONDUITS WITH PULL STRING. CONDUCTORS ARE PROVIDED, SIZED, AND INSTALLED BY UTILITY COMPANY.
- 13 EXTEND (E) CONDUITS AND CONDUCTORS FROM HANDHOLE TO NEW DISTRIBUTION SECTION. TERMINATE CONDUCTORS WITHIN DISTRIBUTION SECTION TO A 600A 3P BREAKER, TO RESUPPLY (E) SWITCHBOARDS.
- 14 ROUTE CONDUITS AND CONDUCTORS UNDERGROUND. FIELD VERIFY AND COORDINATE WITH EQUIP. MANUF. FOR EXACT CONDUIT STUB UP AREA.
- 15 PROVIDE 50' HEAVY DUTY GENERATOR CABLES, FROM MTS CAM LOKS TO TRAILER MOUNTED GENERATOR. COORDINATE WITH GENERATOR AND MTS EQUIPMENT MANUFACTURER FOR RECOMMENDED TYPE, SIZE, AND QUANTITY.
- 16 PROTECT (E) UNDERGROUND CONDUITS AND CONDUCTORS IN PLACE.
- 17 PROVIDE NEW BOLLARD, 4"Ø CONCRETE FILLED.
- 18 PROVIDE EXTINGUISHERS THAT CONFORMS WITH THE PROVIDED STAND OFF DISTANCE OF 50', IN TITLE 19 DIV. 1 SECTION 569 TABLE 3 (ALSO LISTED IN CFC 906).
- 19 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER AND PROJECT MANAGER TO SELECT AND SPECIFY GENERATOR MANUFACTURER WITH SIMILAR EQUIPEMNT SPECIFICATIONS AS SHOWN ON THESE PLANS. BASED ON SELECTED EQUIPEMNT, CONTRACTOR SHALL SUBMIT APPLICATION FOR CONSTRUCTION AND OPERATION TO LOCAL A.H.J., INCLUDING A.Q.M.D. AND MODIFY SIZE AND TYPE OF CIRCUIT BREAKER, CONDUIT, CONDUCTORS, AND EQUIPEMENT CONCRETE PAD PER EQUIP. MANUFACTURERS RECOMMENDATIONS.

FEEDER SCHEDULE KEYNOTES:

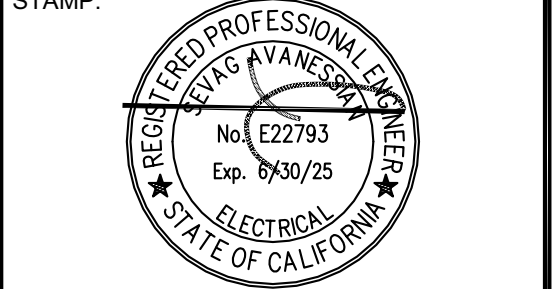
1. REFER TO FEEDER SCHEDULE KEYNOTES **#** ON SHEET E0.4 FOR CONDUIT AND CONDUCTOR SIZES.

GENERAL NOTES:

1. PROVIDE ALL BASIC FIRE AND LIFE SAFETY SIGNAGE AS DESCRIBED ON TABLES 1/T0.2.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND COORDINATING WITH ALL EQUIPMENT MANUFACTURERS TO IDENTIFY EXACT LOCATION OF CONDUIT STUB-UP LOCATIONS PRIOR TO POURING EQUIPMENT CONCRETE PAD FOUNDATIONS.
3. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER TO OBTAIN SHOP DRAWINGS FOR COMPLETE GENERATOR PACKAGE AND ADJUST DIMENSIONS OF CONCRETE PAD AND CONDUIT STUB-UP LOCATIONS AS NEEDED PRIOR TO STARTING WORK.
4. REPAIR PLANTER GARDEN AREA TO MATCH (E) CONDITIONS. PROTECT (E) BUSHES AND PLANTS DURING CONSTRUCTION. RELOCATE VEGETATION AS NEEDED FOR (N) PLACEMENT OF EQUIPMENT AND DUCT BANK LOCATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED MATERIAL AND HARDWARE TO SECURELY FASTEN ALL ENCLOSURES AND CONDUITS.



NO	DATE	RELEASED BY	DESCRIPTION	REVISED BY	DATE	RELEASED BY	DESCRIPTION
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PROJECT TITLE:
GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

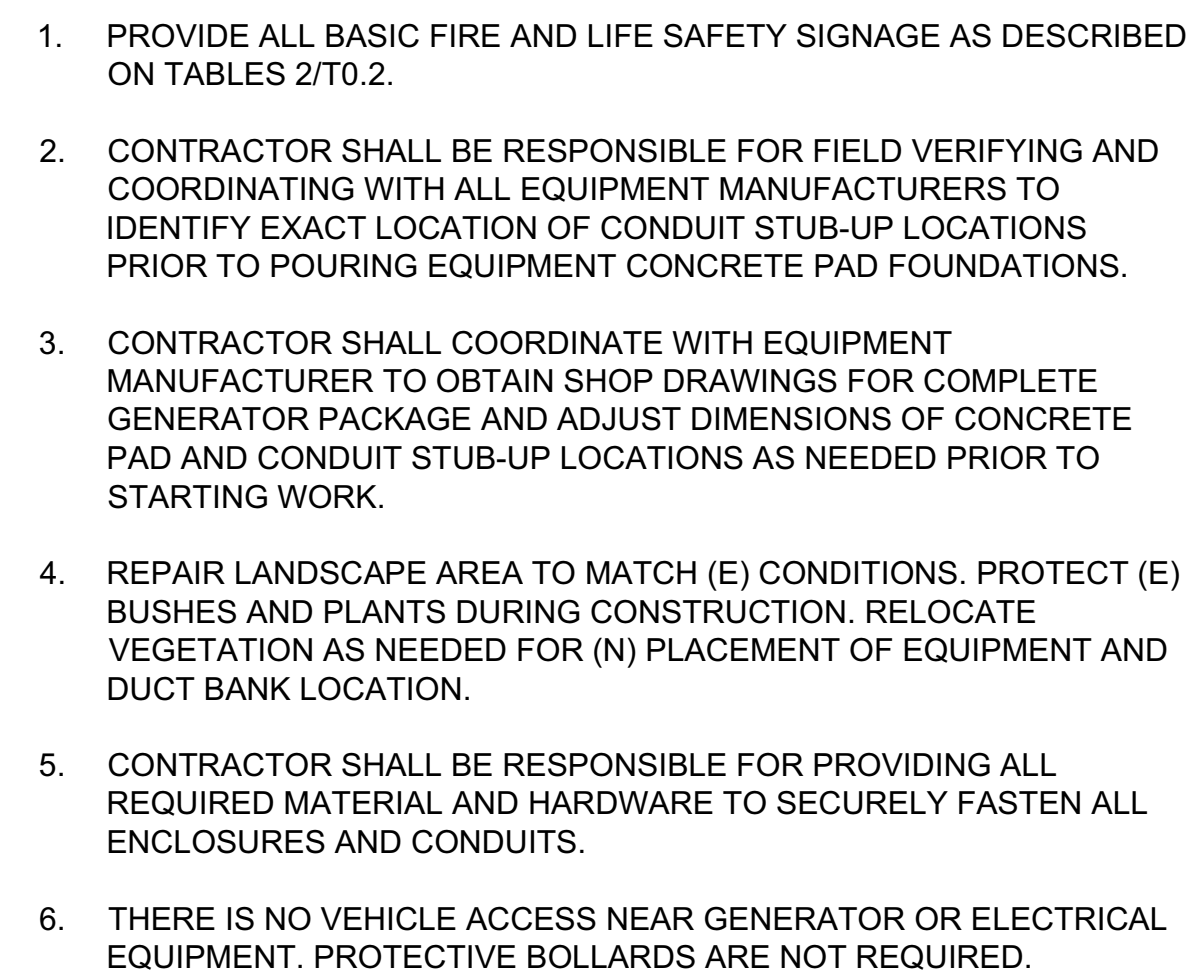
855 CANYON ROAD, REDDING
CA. 96001

JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN

SHEET TITLE:
ELECTRICAL NEW WORK
ENLARGED
SITE PLAN - SECTION "A"

SHEET NUMBER:

E2.1



E2.2

1. INSTALL 25' MIN. OF ONE STRANDED B.C. CONDUCTOR, 20' MIN. ENCASED WITHIN CONCRETE, MAINTAIN 2" MINIMUM SPACING FROM EDGES EXCEPT WHEN (E) CONCRETE THROUGH SLEEVE.
2. SECURE B.C. CONDUCTOR TO REBAR EVERY 3' MIN. VIA STANDARD WIRE TIES AND VIA CADWELD (TWO) AT THE 7" AND 14" POINTS ON CONDUCTOR. CADWELD CONNECTIONS SHALL BE U.L. LISTED AND RATED FOR DIRECT BURIAL IN CONCRETE.
3. INSTALL PVC SCH. 40 SLEEVE EXITING CONCRETE WITHIN EQUIPMENT SECTION CONTAINING GEC TERMINAL. EXTEND B.C. CONDUCTOR 5' MIN. PAST SLEEVE.



GUARD POSTS SHALL COMPLY WITH ALL OF THE FOLLOWING:

- 2 BOLLARD DETAIL
E3.1 NO SCALE

3 E3.1 NO SCALE SERVICE AND SYSTEM GROUNDING DETAILS



5
E3.1

GROUND ROD DETAIL

NO SCALE



E3.1

1. FOR ALL SIDEWALKS, ASSUME TYPE A REBAR.
2. FOR ALL CONCRETE APRON AREAS, EQUIPMENT PADS, ETC., ASSUME TYPE B REBAR.
3. RECONSTRUCT ALL (E) JOINTS WHICH ARE REMOVED OR DAMAGED TO MATCH (E).



E3.2 NO SCALE

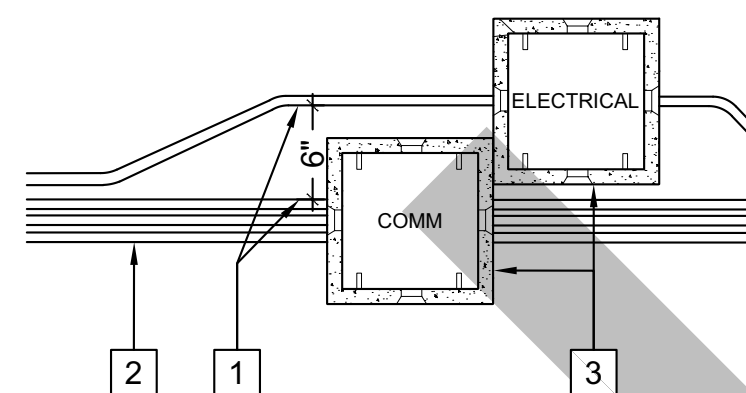
1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. ALL CONDUITS SHALL HAVE SCHEDULE 40 PVC RISERS TERMINATING 4" BELOW THE COVER OF THE PULLBOX.
4. PROVIDE WATERTIGHT SPLICES AND CAPS FOR COMMUNICATION AND POWER CONDUCTORS.
5. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS.) THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY WATERGUARD INDUSTRIES OR EQUAL.
6. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.



E3.2 NO SCALE

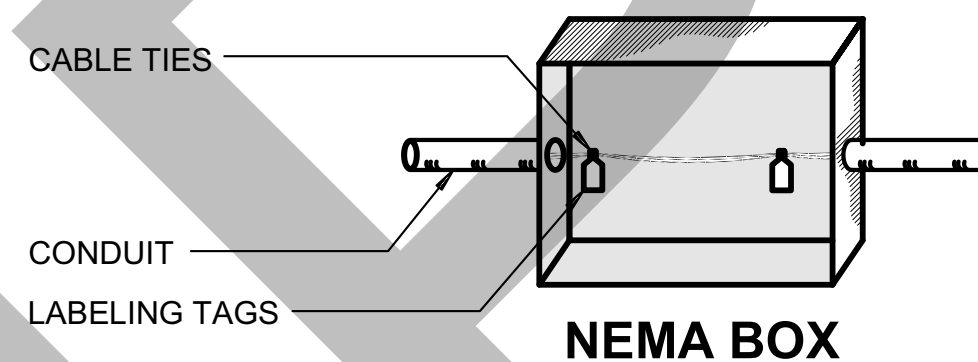


- 1 MAINTAIN MINIMUM OF 6" SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS TO AVOID ELECTROMAGNETIC FIELD INTERFERENCE.
- 2 REFER TO PLAN DRAWINGS AND FEEDER SCHEDULES FOR QUANTITY AND SIZING OF CONDUITS.
- 3 TRAFFIC PLATES MUST BE USED WITH UNDERGROUND PULL BOXES AND SHALL BE VISIBLY LABELED FOR ITS USE.
(EX. COMMUNICATION/ELECTRICAL)



4 U.G. PULLBOX CONDUIT ROUTING DETAIL

1.	CABLE BUNDLES ARE TO BE LABELED WITH PLASTIC LABEL TAGS ATTACHED TO THE ENTIRE BUNDLE OF CABLES WITH CABLE TIES.	CABLE TIES
2.	LABELS ARE TO INDICATE LOCATION OF PRIMARY SOURCE FEEDERS, VOLTAGE CLASS, WIRE SIZE, CIRCUITS #, AND DESTINATION OF CABLE BUNDLES IN BOTH DIRECTIONS FROM AND TO THE NEXT PULLBOX OR STATION IN THE PATHWAY (DOWNSTREAM).	CONDUIT LABELING

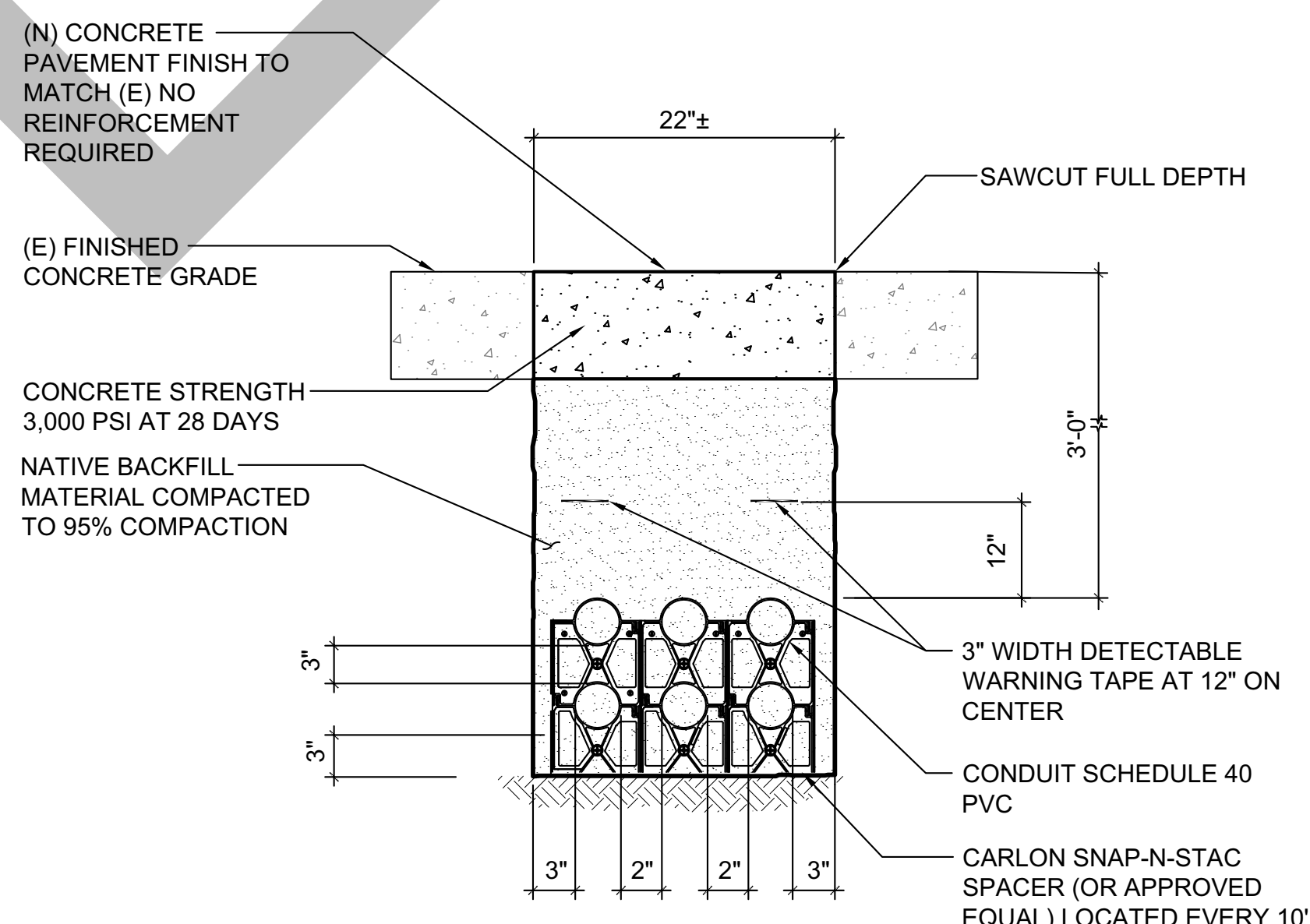


5 CABLE LABELING DETAIL

1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. ALL CONDUITS SHALL HAVE SCHEDULE 40 PVC RISERS TERMINATING 4" BELOW THE COVER OF THE PULLBOX.
4. PROVIDE WATERTIGHT SPLICES AND CAPS FOR COMMUNICATION AND POWER CONDUCTORS.
5. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS.) THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY WATERGUARD INDUSTRIES OR EQUAL.
6. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.



E3.2 NO SCALE



1. ADDITIONAL OR LESS CONDUIT REQUIRE SAME SPACING.
2. REPAIR AND PATCH ALL SURFACES.
3. MINIMUM CONDUIT SWEEP RADIUS SHALL BE 24" OR APPROVED FACTORY 22.5°, 45°, AND 90° BENDS ARE ACCEPTABLE TO USE.
4. THE UTILITIES SHOWN ON THE DRAWINGS ARE BASE ON RECORD DRAWINGS AND SURVEY OF SURFACE FEATURES. THE ACCURACY OF THE RECORD DRAWINGS IS VERY LIMITED AND MANY ASSUMPTIONS WERE MADE REGARDING THE LOCATION OF UNDERGROUND UTILITIES. THERE ARE MANY UTILITIES, SUCH AS WATER, GAS, SEWER, STORM DRAIN, ELECTRICAL AND COMMUNICATION LINES THAT EXIST, BUT ARE NOT SHOWN ON THE DRAWINGS. FOR THIS REASON THE CONTRACTOR SHALL PERFORM A GEOPHYSICAL SURVEY AND POT HOLLING AS NECESSARY TO VERIFY THE UNDERGROUND UTILITY LOCATIONS PRIOR TO STARTING WORK.
5. THE CONTRACTOR SHALL VERIFY EXISTING UTILITIES AND PROTECT IN PLACE.
6. THE CONTRACTOR SHALL COORDINATE WITH OWNER AS A RESOURCE FOR INFORMATION REGARDING EXISTING UTILITIES AND TO ENSURE FACILITY OPERATIONS ARE NOT INTERRUPTED.
7. THE INVESTIGATION SHALL IDENTIFY THE LOCATION OF KNOWN AND UNKNOWN UTILITIES WITHIN THE PROJECT SITE. ALL LOCATED UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE LOCATED ON THE SITE PLAN. RESULTS OF THE GEOPHYSICAL INVESTIGATION REPORT SHALL BE SUBMITTED TO THE OWNER REPRESENTATIVE FOR REVIEW AND APPROVAL.
8. ALL LOCATED UTILITIES SHALL BE PROTECTED IN PLACE DURING THE TRENCHING AND BACKFILLING PROCESS. CONTRACTOR SHALL HAND DIG AS REQUIRED WITHIN THE VICINITY OF ALL EXISTING UNDERGROUND UTILITIES. DEPTH OF NEW CONDUIT INSTALLATION SHALL VARY AS REQUIRED TO AVOID EXISTING UTILITIES.
9. ANY DAMAGE TO REMAINING ROAD IMPROVEMENTS, EXISTING UTILITIES, BUILDING ELEMENTS AND OTHER EXISTING FACILITIES TO REMAIN CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

7 UNDERGROUND ELECTRICAL CONDUITS

E3.2 NO SCALE

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APPROVED FIRE AND PANIC ONLY



Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all time



TECHNICAL SERVICES SECTION

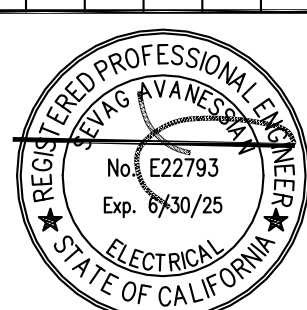
DO NOT SCALE DIMENSIONS FROM THESE PLANS. FIGURED OR WRITTEN DIMENSION ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. IT IS INTENDED THAT THE DRAWINGS, DETAILS AND SPECIFICATIONS SHOULD AGREE. SHOULD DISCREPANCIES OR CONFLICTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE STATE REPRESENTATIVE AT ONCE. UPON DISCOVERY OF CONFLICTS OR ERRORS THE STATE'S REPRESENTATIVE SHALL SEEK GUIDANCE FROM THE DESIGNER OF RECORD TO RESOLVE THE PROBLEM AND WHOSE DECISION SHALL BE FINAL. APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

JCCA
Architects • Engineers

385 VAN NESS AVE., SUITE 208, TORRANCE, CA 90501
P-310 212 7644 F-310 212 5271

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PROJECT TITLE:

GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

855 CANYON ROAD, REDDING
CA. 96001

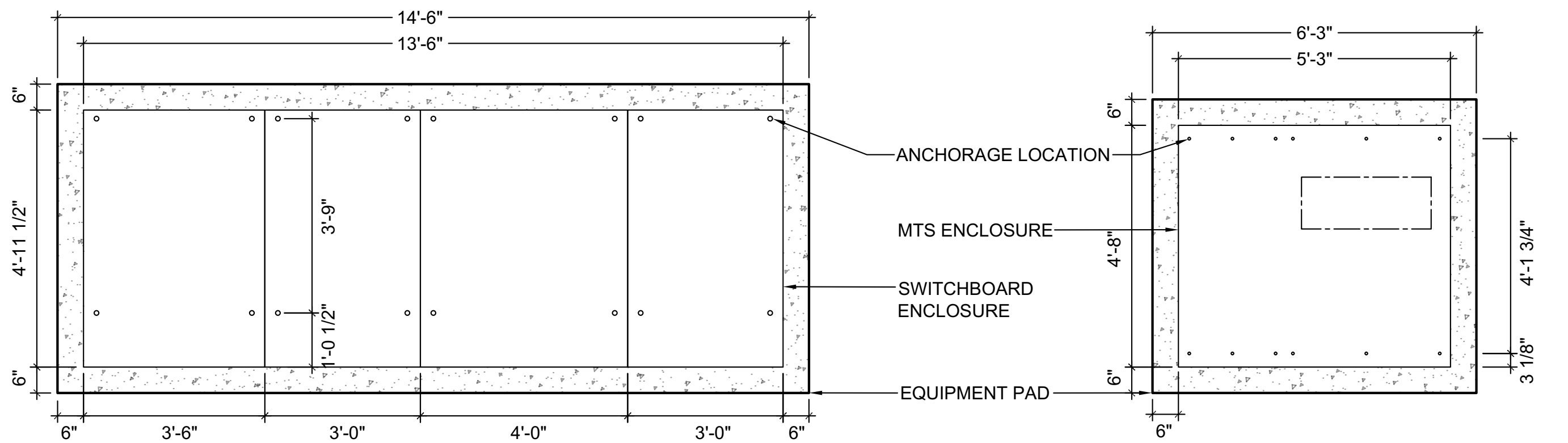
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SHEET TITLE:

ELECTRICAL TRENCHING & HANDHOLE DETAILS

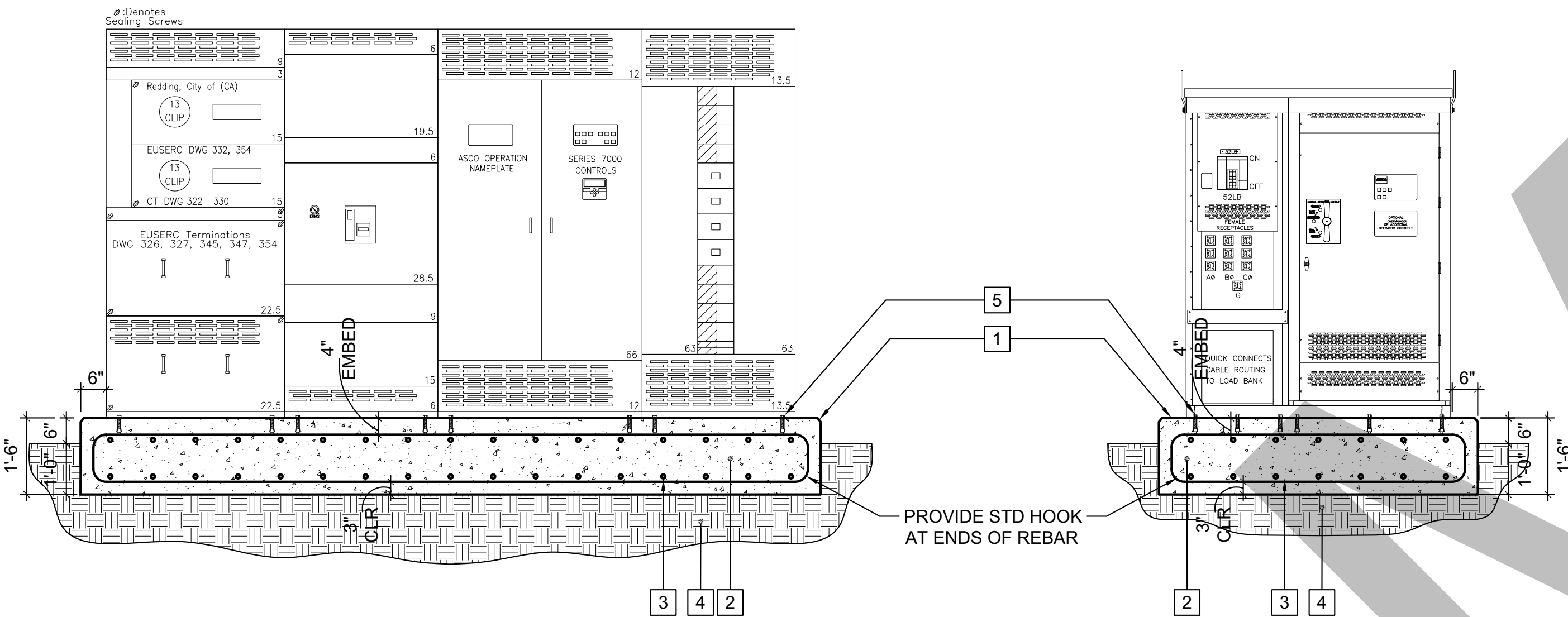
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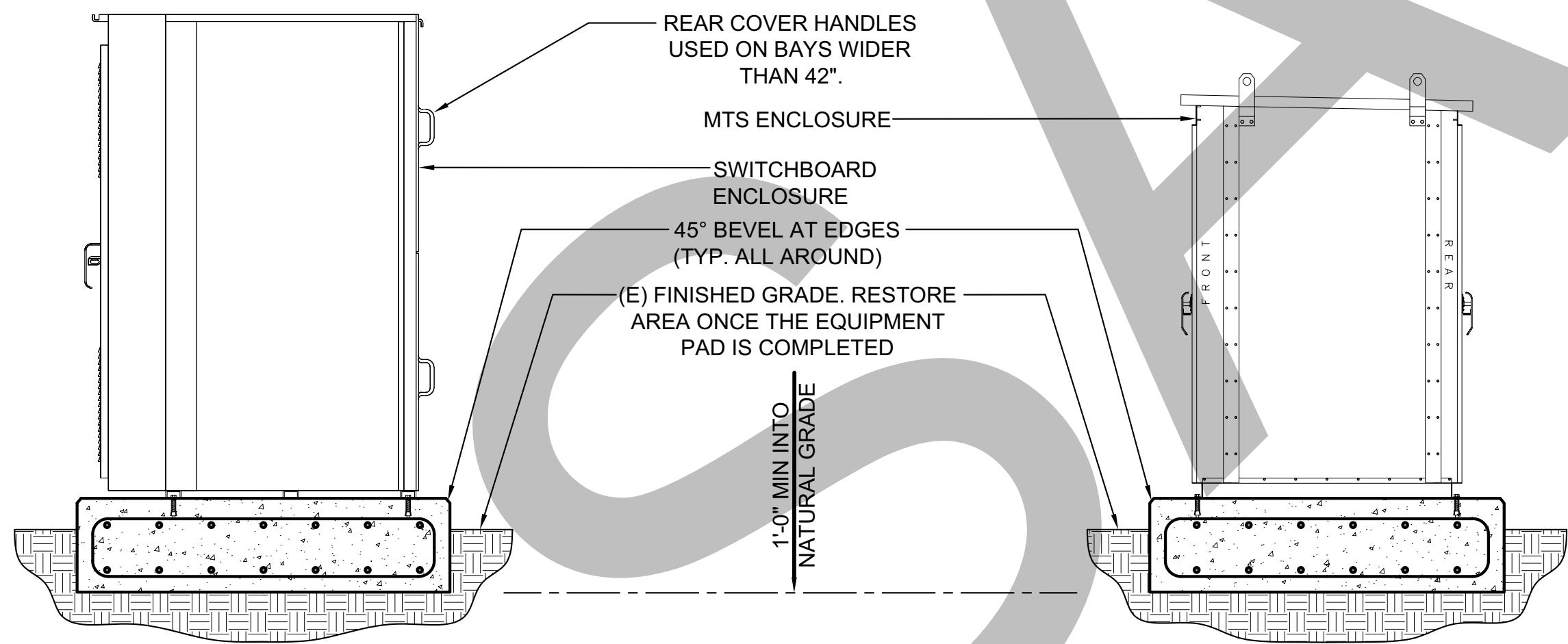
PLAN VIEW

PLAN VIEW



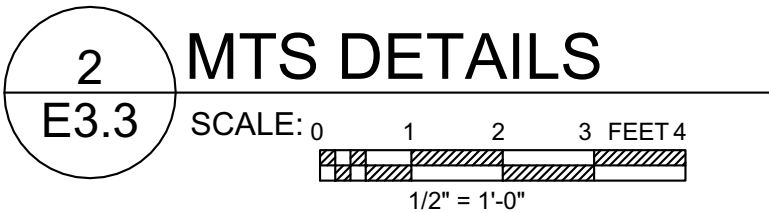
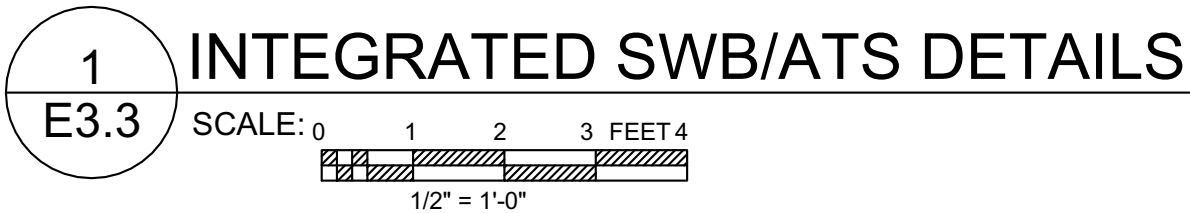
SWITCHBOARD ELEVATION - FRONT VIEW

MTS ELEVATION - FRONT VIEW



RIGHT SIDE VIEW

RIGHT SIDE VIEW



SWITCHBOARD GENERAL NOTES
PRODUCT DESCRIPTION & RATINGS

Power System Data
208Y/120V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 65KA RMS
Incoming Section 1 Cable Through the Bottom Left of Lineup

Bus System Data
1200A Tin/Aluminum & Silver/Copper Main Bus
(2) 25x2.00 IN/6x51 mm Al Bus Bar Per Phase/Neutral
(1) 25x1.50 IN/6x38 mm Al Ground Bus

Enclosure Data
Type 3R Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required
Handling: Rollers
Strip Heater w. Thermostat & Humidistat
Rodent barriers
1.5H Corrosion Resist Base Channels
Steel Bottom Closure Plate
Base channels cannot be removed from EUSERC switchboard line-ups
Utility sealing hardware installed for unmetered bus compartments

Estimated Shipping Weight
Shipping Split 1 2008.00 lbs / 910.83 kgs
Shipping Split 2 1722.00 lbs / 781.10 kgs
Shipping Split 3 1108.00 lbs / 502.59 kgs
Complete Lineup 4838.00 lbs / 2194.52 kgs

Code Standards
U.L. Deadfront and suitable for use as Service Entrance, when not more than six (6) disconnecting means are provided.
Section 3 built to UL1008 standards

Rating Nameplates
ST1- Deadfront - Section Bus 1200A
ST2- Service Entrance - Section Bus 1200A
ST3- Deadfront - Section Bus 1200A
ST4- Deadfront - Section Bus 1200A

PRODUCT INFORMATION

Wiring
All wiring to be SIS Wire type

Instruction Bulletins
Reference 80043-055 For Handling, Installation, Anchoring, Inspection And Maintenance Information

Product Accessories/Options
ASCO Controller with Open Transition
- Automatic Transfer
- Emergency Cable Entrance: Top
- Switched Neutral
Seismic Qualified
24V Trip Unit Display Power
System Communications - Modbus RS485 to Ethernet Modbus TCP
Customer Ethernet Network - 10/100Mb Copper
Locally Mounted ERMS Switch

SWITCHBOARD/ATS SPECIFICATIONS

NEW WORK KEYNOTES:

- 1 PROVIDE 1% CROSS SLOPE ON PAD. PROVIDE SMOOTH STEEL TROWEL FINISH.
- 2 CONC. SHALL HAVE A MIN. COMPRESSIVE STRENGTH @ 28 DAYS OF 3000 Psi. MAX W/C RATIO AT 0.5.
- 3 REBAR SHALL CONFORM TO ASTM A615 GRADE 60. PROVIDE #5 AT 10" O.C. E.W. EACH WAY AT TOP AND BOTTOM.
- 4 TOP 6" MIN OF SUBGRADE SOILS SCARIFIED MOISTURE CONDITIONED AND COMPACTED TO 90% PER ASTM D1557.
- 5 PROVIDE 5/8"Ø SS304 HILTI KWIK BOLT T22 ANCHORS, 4" EMBED (ESR 4266). WATER SEAL ALL AROUND EQUIPMENT

DEPUTY INSPECTION REQUIRED FOR EXPANSION ANCHOR INSTALLATION

NOTE:
LAYOUT ARE BASED ON SCHNEIDER ELECTRIC EQUIPMENT. CONTACT ROB FUENTES, CONSULTING APPLICATION ENGINEER (844) 939-7378 EXT. 44379, 888-778-2733 CONSULTINGENGINEERSUPPORT@SE.COM

GENERAL NOTES:

1. ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.
2. A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.
3. BASIS OF DESIGN PRODUCT IS BASED ON SCHNEIDER ELECTRIC (SQUARE D) EQUIPMENT. APPROVED EQUALS ARE ACCEPTABLE SUBJECT TO REVIEW. CONTRACTOR IS RESPONSIBLE FOR MAKING ADJUSTMENTS AT NO COST TO THE OWNER WHERE SUBSTITUTIONS ARE USED.

GENERAL NOTES

1. FLOOR MOUNTED ENCLOSURE.
TYPE 3R CONSTRUCTED FROM CODE GAUGE STEEL.
FINISH: TYPE 3R, ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
TYPE 3RX EXTERIOR CONSTRUCTED FROM CODE GAUGE STAINLESS STEEL.
(S) EXTERIOR CONSTRUCTED FROM TYPE 316 STAINLESS STEEL.
2. EXTERIOR DOORS HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
3. DESIGNED FOR FRONT & REAR ACCESS.
4. RECOMMENDED CLEARANCES: FRONT: 38" REAR: 38"
5. EXTERIOR VENTS: 600A - 1000A: NO VENTS.
1200A: VENTS ARE SUPPLIED WITH POLYESTER DUST FILTERS.
6. LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 FT LBS BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING OF EQUIPMENT. AFTER INSTALLATION OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS.
7. SECTION 1 & SECTION 2 SHIPS AS 1 UNIT (NO SHIPPING SPLIT).
8. CENTER OF GRAVITY ; SEE TABLE 1
9. APPROXIMATE WEIGHT : SEE TABLE 1

SYSTEM NOTES

1. SYSTEM RATING: 600 AMPS, 800 AMPS, 1000 AMPS, 1200 AMPS.
SHORT CIRCUIT RATING : SOURCE 1: 22,000 RMS SYM @ 480V.
SOURCE 2: 22,000 RMS SYM @ 480V.
2. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
3. GROUND: AS PER NEC.
4. NEUTRAL: 100% RATED.
5. APPLICABLE LABEL(S): U.L. 891

TRANSFER SWITCH

1. H FRAME MANUAL TRANSFER SWITCH 600A - 1200A.
2. TRANSFER SWITCH RATING: 600 AMPS, 800 AMPS, 1000 AMPS, 1200 AMPS.
SHORT CIRCUIT RATING WHEN PROTECTED BY A CIRCUIT BREAKER
TIME RESPONSE, MAXIMUM 0.05 SECONDS:
SOURCE 1: 50,000 RMS SYM @ 480V.
SOURCE 2: 22,000 RMS SYM @ 480V.
3. A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL.
WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS.
A. SOLID NEUTRAL
B. SWITCHED NEUTRAL POLE
4. SOURCE 2 (600A - 800A): (2) SERIES 16 SINGLE POLE MALE RECEPTACLES PER PHASE & NEUTRAL
SOURCE 2 (600A - 800A): (1) SERIES 16 SINGLE POLE MALE RECEPTACLES ON GROUND
SOURCE 2 (1000A - 1200A): (3) SERIES 16 SINGLE POLE MALE RECEPTACLES PER PHASE & NEUTRAL
SOURCE 2 (1000A - 1200A): (1) SERIES 16 SINGLE POLE MALE RECEPTACLES ON GROUND
5. UL 1008

CIRCUIT BREAKER: ITEM 52LB

1. SQUARE "D" 80% RATED TYPE "PJF" MOLDED CASE CIRCUIT BREAKER
1200AF/600AT, 1200AF/800AT, 1200AF/1000AT, 1200AF/1200AT.
ELECTRONIC TRIP UNIT WITH LONG DELAY AND INSTANTANEOUS TRIP SETTINGS.
SHORT CIRCUIT RATING: AIC 65,000 RMS SYM @ 480V.
2. OPTIONAL 100% BREAKER MAY BE SUPPLIED.
3. OPTIONAL ERMS SWITCH MAY BE SUPPLIED
4. U.L. 489

TERMINATIONS 1000A - 1200A

1. SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS.
LOAD: (4) 1/0 AWG - 600MCM PER PHASE & NEUTRAL & GROUND
SOURCE 1: (4) 1/0 AWG - 600MCM PER PHASE & NEUTRAL & GROUND
A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER THE NEC
2. OPTIONAL LUGS MAY BE SUPPLIED.
3. SUPPLIED WITH SERIES 16 SINGLE POLE FEMALE RECEPTACLES.
LOAD BANK : (3) PER PHASE
LOAD BANK : (1) ON GROUND

MANUAL TRANSFER SWITCH (MTS) SPECIFICATIONS

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APPROVED FIRE AND PANIC ONLY



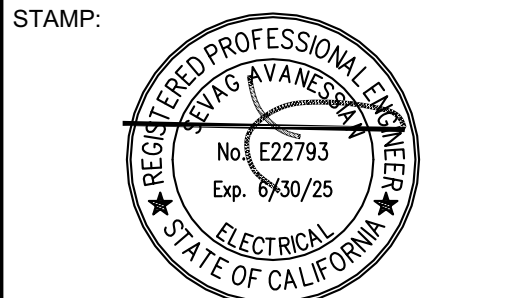
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TECHNICAL SERVICES SECTION
DO NOT SCALE DIMENSIONS FROM THESE PLANS. FOR ALL DIMENSIONS, REFER TO THE DRAWING. DIMENSIONS SHOWN ON THE DRAWING SHALL TAKE PRECEDENCE OVER ANY DIMENSIONS NOT SHOWN ON THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE OF CALIFORNIA.

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PROJECT TITLE:
GENERATOR ATS AND CAMLOK

HAPPY VALLEY FIRE CENTER (HVFC)

855 CANYON ROAD, REDDING CA. 96001

JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN

SHEET TITLE:
ELECTRICAL EQUIPMENT DETAILS - SECTION A

SHEET NUMBER:

E3.3



ELECTRICAL EQUIPMENT DETAILS - SECTION B

1 ELECTRICAL I
E3.4 SCALE: 0 2 6 12 INCHES 24

3/4" = 1'-0"

1. FLOOR MOUNTED ENCLOSURE.
TYPE 3R CONSTRUCTED FROM CODE GAUGE STEEL.
FINISH: TYPE 3R, ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
TYPE 3RX EXTERIOR CONSTRUCTED FROM CODE GAUGE STAINLESS STEEL.
(S) EXTERIOR CONSTRUCTED FROM TYPE 316 STAINLESS STEEL.
2. EXTERIOR DOORS HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
3. DESIGNED FOR FRONT ACCESS.
4. RECOMMENDED CLEARANCES: FRONT: 36", REAR: NONE.
5. LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 LBS BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING EQUIPMENT. AFTER INSTALLATION OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS.
6. CENTER OF GRAVITY.
7. APPROXIMATE WEIGHT : 1410 lbs.

1. SYSTEM RATING: 150 AMPS, 175 AMPS, 200 AMPS, 225 AMPS, 250 AMPS, 300 AMPS, 400 AMPS.
SHORT CIRCUIT RATING : SOURCE 1: 22,000 RMS SYM @ 480V.
SOURCE 2: 22,000 RMS SYM @ 480V.
2. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
3. GROUND: AS PER NEC.
4. NEUTRAL: 100% RATED.
5. APPLICABLE LABEL(S): U.L. 891

1. J FRAME MANUAL TRANSFER SWITCH.
2. TRANSFER SWITCH RATING: 150 AMPS, 200 AMPS, 260 AMPS, 400 AMPS.
SHORT CIRCUIT RATING WHEN PROTECTED BY A CIRCUIT BREAKER
TIME RESPONSE, MAXIMUM 0.05 SECONDS:
SOURCE 1: 42,000 RMS SYM AMPERES @ 480V.
SOURCE 2: 22,000 RMS SYM AMPERES @ 480V.
3. A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL.
WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS:
 - A. SOLID NEUTRAL
 - B. SWITCHED NEUTRAL POLE
4. SOURCE 2: (1) SERIES 16 SINGLE POLE MALE RECEPTACLES PER PHASE & NEUTRAL
SOURCE 2: (1) SERIES 16 SINGLE POLE MALE RECEPTACLES ON GROUND
5. UL 1008

1. SQUARE "D" 80% RATED TYPE "LHL" MOLDED CASE CIRCUIT BREAKER 400AF/150AT, 400AF/175AT, 400AF/200AT, 400AF/225AT, 400AF/250AT, 400AF/300AT, 400AF/350AT, 400AF/400AT.
MOLDED CASE CIRCUIT BREAKER, THERMAL MAGNETIC TRIP
SHORT CIRCUIT RATING: AIC 35,000 RMS SYM @ 480V.

2. U.L. 489

1. SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS.
SOURCE 1: (1) 1/0 - 600MCM OR (2) 1/0-250MCM PER PHASE & NEUTRAL & GROUND
(1) 1/0 - 600MCM OR (2) 1/0-250MCM PER PHASE & NEUTRAL & GROUND
A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER THE NEC
2. OPTIONAL LUGS MAY BE SUPPLIED.
3. SUPPLIED, WITH SERIES 16 SINGLE POLE FEMALE RECEPTACLES.
LOAD BANK : (1) PER PHASE
LOAD BANK : (1) ON GROUND

MANUAL TRANSFER SWITCH (MTS) SPECIFICATIONS

- 1 PROVIDE 1% CROSS SLOPE ON PAD. PROVIDE SMOOTH STEEL TROWEL FINISH.
- 2 CONC. SHALL HAVE A MIN. COMPRESSIVE STRENGTH @ 28 DAYS OF 3000 Psi.
MAX W/C RATIO AT 0.5.
- 3 REBAR SHALL CONFORM TO ASTM A615 GRADE 60. PROVIDE #5 AT 10" O.C. E.W.
EACH WAY AT TOP AND BOTTOM.
- 4 TOP 6" MIN OF SUBGRADE SOILS SCARIFIED MOISTURE CONDITIONED AND
COMPACTED TO 90% PER ASTM D1557.
- 5 PROVIDE 5/8"Ø SS304 HILTI KWIK BOLT TZ2 ANCHORS, 4" EMBED (ESR 4266).
WATER SEAL ALL AROUND EQUIPMENT
- 6 STEEL ENCLOSURE POLE MOUNTING KIT W/ UNISTRUT CHANNEL, DOUBLE, GALV.
AND 2" HOSE CLAMP.
- 7 (1) 1/2" THROUGH BOLT AND (1) 1/2" LAG BOLT TO ATTACH TO POLE.
- 8 NUT, CLAMPING CHANNEL, W/ SPRING TOP SUPPORT PANELBOARD.

DEPUTY INSPECTION REQUIRED FOR EXPANSION ANCHOR INSTALLATION

NOTE:
LAYOUT ARE BASED ON SCHNEIDER ELECTRIC EQUIPMENT. CONTACT
ROB FUENTES, CONSULTING APPLICATION ENGINEER
(844) 939-7378 EXT. 44379, 888-778-2733
CONSULTINGENGINEERSUPPORT@SE.COM

JOSH NUNO, FIELD SALES ENGINEER
(424) 392-1501
JOSHUA.NUNO@ASCOPOWER.COM

1. ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.
2. BASIS OF DESIGN PRODUCT IS BASED ON SCHNEIDER ELECTRIC (SQUARE D) EQUIPMENT. APPROVED EQUALS ARE ACCEPTABLE SUBJECT TO REVIEW. CONTRACTOR IS RESPONSIBLE FOR MAKING ADJUSTMENTS AT NO COST TO THE OWNER WHERE SUBSTITUTIONS ARE USED.

Description

The ROWU integrated meter switch combines the meter socket and the automatic transfer switch, which saves installation time and labor. The all-in-one design meets NEC emergency disconnect requirements and reduces overall clutter on the home's exterior for a cleaner, more appealing aesthetic.

The open transition type transfer switch is designed for use with single phase generators using an Evolution™ or Nexs™ control type in standard standby applications. Bypass, 3 phase meter socket, and ringless type cover come standard. Optional accessories, such as ring type covers and 5/8 jaw, are available to meet local requirements.

The ROWU transfer switches are built in an aluminum NEMA-1 type 3R enclosure suitable for either outdoor or indoor installation. The Heavy Duty Generator Connection is an ETL recognized device, designed for years of service. All switches are covered by a 5 year limited warranty.

Each switch comes standard with a Smart A/C Management module (SACM) to manage up to 4 individual HVAC (24 VAC controlled) loads with no additional hardware. When used in tandem with Smart Management Modules (SMM), up to 8 loads can be managed, providing the most installation efficient power management options available.

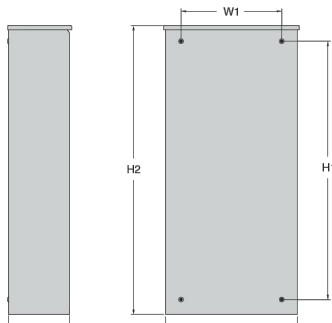


150 - 200 Amps, Single Phase		Integrated Meter Transfer Switch	
Functions			
All timing and sensing functions originate in the generator controller.			
Utility Voltage Drop-out		<40%	
Transfer to Generator Start		2 - 2000 Factory Set, Adjustable between 2 - 1,500 Seconds by a Qualified Dealer*	
Engine Warning Delay		5 Seconds	
Standby Voltage Sensor		60% for 5 Seconds	
Utility Voltage Pickup		>90%	
Re-transfer Delay		15 Seconds	
Engine Cooldown Timer		60 Seconds	
Exercise		Weeks - 10 Minutes Weekly Loadbank™ - 3 to 13 Minutes Adjustable, Weekly 60 weeks/Yearly	
The Transfer Switch can be Operated Manually Without Power Applied			
*When used in conjunction with utility facilities, a qualified electrician must be consulted.			

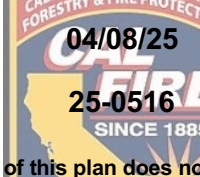
Model	RXW150A3	RXW200A3
Amps	150	200
Voltage	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition Service Rated	Open Transition Service Rated
Enclosure Type	NEMA 3R	NEMA 3R
ETL Rating	ETL	ETL
Withstand Rating (Amps)	22,000	22,000
Log Range	350 MCM - #6	350 MCM - #6

Accessories

Accessory	Description
Q40740 Jaw Stake Meter Cover	Replacement outer top cover and sealing for ring and jaw meter measurement. Verify you have the proper type to meet local code requirements.
Q40740 Jaw Stake Meter Cover	Includes all pieces necessary to perform conversion of the standard Four Jaw Meter into a Jaw Meter. Verify you have the proper type to meet local code requirements.
Q40740 Safety Rail Safety Switch	Safety Switch for standard and non-standard type jaw meters. Using with steel wire mesh.
Q40740 Meter Conversion Lip Kit	Includes all pieces necessary to convert the standard for jaw meter into a stake meter side link connectors.
Q40740 24 in. Potential Extension Kit	Includes all pieces to extend the transfer switch enclosure by 24 in. for underground service feed.
Q40740 48 in. Potential Extension Kit	Includes all pieces to extend the transfer switch enclosure by 48 in. for underground service feed.
Q40740 Transfer Switch Cover Kit	Includes ringtop cover and parts for transfer switch cover conversion.

150 - 200 Amps, Single Phase Dimensions	 Integrated Meter Transfer Switch Automatic Transfer Switch 3 in 1																																			
	<table border="1"> <thead> <tr> <th>Model</th><th colspan="2">R20W150A3</th><th colspan="2">R20W200A3</th></tr> </thead> <tbody> <tr> <td>Height - in (mm)</td><td>H1</td><td>34.6 (883.0)</td><td>34.9 (889.0)</td><td></td></tr> <tr> <td></td><td>H2</td><td>42.5 (1081.0)</td><td>42.5 (1081.0)</td><td></td></tr> <tr> <td>Width - in (mm)</td><td>W1</td><td>9.1 (230.0)</td><td>9.1 (230.0)</td><td></td></tr> <tr> <td></td><td>W2</td><td>17.3 (440.0)</td><td>17.3 (440.0)</td><td></td></tr> <tr> <td>Depth - in (mm)</td><td></td><td>6.3 (161.0)</td><td>6.3 (161.0)</td><td></td></tr> <tr> <td>Weight - lbs (kg)</td><td></td><td>43.0 (19.5)</td><td>43.0 (19.5)</td><td></td></tr> </tbody> </table> 	Model	R20W150A3		R20W200A3		Height - in (mm)	H1	34.6 (883.0)	34.9 (889.0)			H2	42.5 (1081.0)	42.5 (1081.0)		Width - in (mm)	W1	9.1 (230.0)	9.1 (230.0)			W2	17.3 (440.0)	17.3 (440.0)		Depth - in (mm)		6.3 (161.0)	6.3 (161.0)		Weight - lbs (kg)		43.0 (19.5)	43.0 (19.5)	
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INTEGRATED PANELBOARD/ATS SPECIFICATIONS

DSA STAMP	
OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY  04/08/25 25-0516 SINCE 1895 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.	



TECHNICAL SERVICES SECTION

DO NOT SCALE DIMENSIONS FROM THESE PLANS. FIGURED OR WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER UNFIGURED DIMENSIONS. IT IS INTENDED THAT THE DIMENSIONS, DETAILS AND SPECIFICATIONS SHOULD AGREE. SHOULD ANY DISCREPANCY OR APPARENT ERROR OCCUR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY BY E-MAIL. UPON RECEIPT OF COMPLETE AND CORRECTED INFORMATION, THE ARCHITECT SHALL ISSUE A CLARIFICATION TO THE DRAWINGS. THE ARCHITECT'S REPRESENTATIVE SHALL ISSUE CLARIFICATIONS FROM THE DESIGNER. NO CHANGES TO THE PLANS OR THE PROGRAM AND SPECIFICATIONS SHALL BE FINAL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT. THE ARCHITECT'S REPRESENTATIVE SHALL BE FINAL APPROVAL. THE ARCHITECT DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR ALTERATION FROM THE APPLICATION PROJECTIONS/STANDARDS. PERSONNEL IN SUBJECT TO FIELD VISITS TO THE PROJECT SITE AT ALL TIMES.

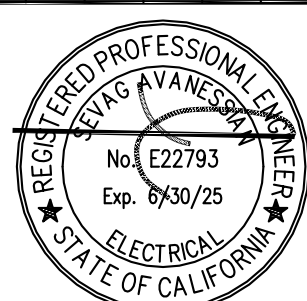


JCCA
Architects + Engineers

385 VAN NESS AVE., SUITE 208, TORRANCE, CA. 90501
P: 310.212.7644 | F: 310.212.5272

REVISIONS		DATE	RELEASED BY	DESCRIPTION
NO	•			
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	•			

STAMP:



PROJECT TITLE:
GENERATOR ATS AND
CAMLOK

HAPPY VALLEY FIRE
CENTER (HVFC)

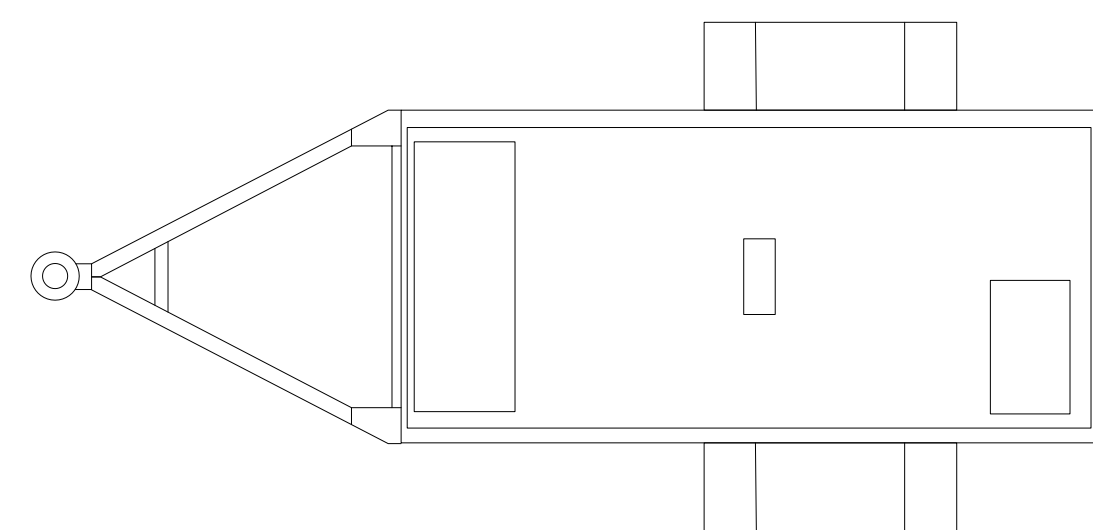
855 CANYON ROAD, REDDING
CA. 96001

JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN

SHEET TITLE:
ELECTRICAL EQUIPMENT
DETAILS - SECTION B

SHEET NUMBER:

E3.4



PLAN VIEW

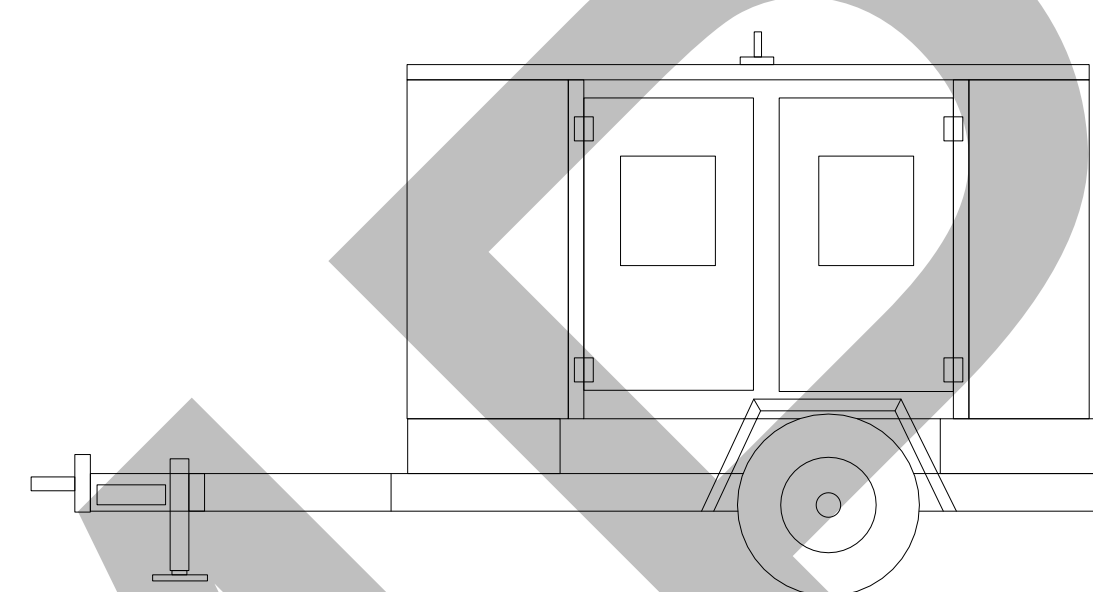
- 1 PROVIDE 1% CROSS SLOPE ON PAD. PROVIDE SMOOTH STEEL TROWEL FINISH.
- 2 CONC. SHALL HAVE A MIN. COMPRESSIVE STRENGTH @ 28 DAYS OF 3000 Psi. MAX W/C RATIO AT 0.5.
- 3 REBAR SHALL CONFORM TO ASTM A615 GRADE 60. PROVIDE #5 AT 10" O.C. EACH WAY AT TOP AND BOTTOM.
- 4 TOP 18" MIN OF SUBGRADE SOILS SCARIFIED MOISTURE CONDITIONED AND COMPACTED TO 95% PER ASTM D1557.
- 5 PROVIDE 8 - 3/4"Ø SS304 HILTI KWIK BOLT TZ ANCHORS (5 BOLTS ON EACH SIDE), 4" EMBED (ESR 4266). WATER SEAL ALL AROUND EQUIPMENT. VERIFY MANUFACTURER'S REQUIREMENTS.

DEPUTY INSPECTION REQUIRED FOR EXPANSION ANCHOR INSTALLATION

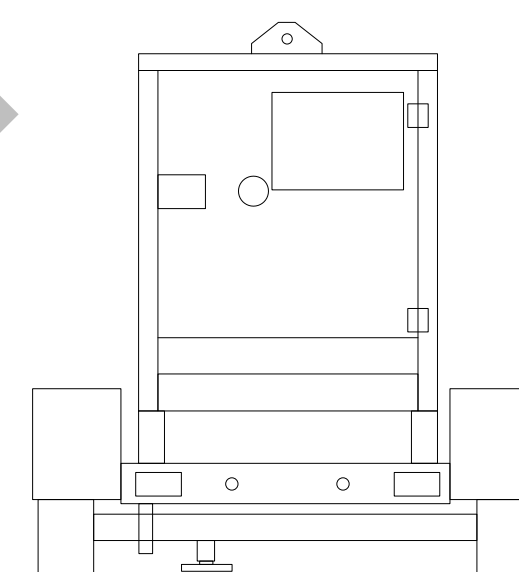
- LAYOUTS ARE BASED ON QUINN POWER SYSTEMS CAT EQUIPMENT.
- CONTACT BRIAN BENNETT, APPLICATION ENGINEER (559) 891-5445
BRIAN.BENNETT@QUINNPPOWER.COM

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH AHJ FIELD INSPECTOR, TO PROVIDE ALL REQUIRED LABELS AND SIGNAGE ON EQUIPMENT AND WITHIN THE PARAMETER OF THE PROPOSED GENERATOR AS INDICATED IN 2022 CFC 5704.2.3, 2016 NFPA 704.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS FROM MANUFACTURER AND PROVIDE EQUIPMENT ANCHORAGE PER MANUFACTURERS RECOMMENDATION. MANUFACTURER SHALL DELIVER ONSITE COMPLETE WITH ALL HARDWARE REQUIRED TO SAFELY SECURE AND ASSEMBLE ALL COMPRISED COMPONENTS TOGETHER TO MEET MANUFACTURERS SATISFACTORY INSTALLATION AND PROPER TORQUE PRESSURE TO ALL BOLTS AND ANCHORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH GENERATOR EQUIPMENT MANUFACTURER TO PROVIDE ALL REQUIREMENTS AS LISTED IN 2022 CFC 5704.2.7.5.8 AND 5704.2.9.7.5 OVERFILL PREVENTION. THE OVERFILL PREVENTION SYSTEM SHALL COMPLY AND INCLUDE THE FOLLOWING ITEMS LISTED BELOW:
 - A. AN INDEPENDENT MEANS OF NOTIFYING THE PERSON FILLING THE TANK THAT THE FLUID LEVEL HAS REACHED 90 PERCENT OF TANK CAPACITY BY PROVIDING AN AUDIBLE OR VISUAL ALARM SIGNAL, PROVIDING A TANK LEVEL GAUGE MARKED AT 90 PERCENT OF TANK CAPACITY, OR OTHER APPROVED MEANS.
 - B. AUTOMATIC SHUT OFF OF THE FLOW OF FUEL TO THE TANK WHEN THE QUANTITY OF LIQUID IN THE TANK REACHES 95 PERCENT OF TANK CAPACITY. FOR RIGID HOSE FUEL-DELIVERY SYSTEMS, AN APPROVED MEANS SHALL BE PROVIDED TO EMPTY THE FILL HOSE INTO THE TANK AFTER THE AUTOMATIC SHUTOFF DEVICE IS ACTIVATED.
 - C. THE SYSTEM SHALL REDUCE THE FLOW RATE TO NOT MORE THAN 15 GALLONS PER MINUTE (0.95 L/S) SO THAT AT THE REDUCED FLOW RATE, THE TANK WILL NOT OVERFILL FOR 30 MINUTES, AND AUTOMATICALLY SHUT OFF FLOW INTO THE TANK SO THAT NONE OF THE FITTINGS ON THE TOP OF THE TANK ARE EXPOSED TO PRODUCT BECAUSE OF OVERFILLING.

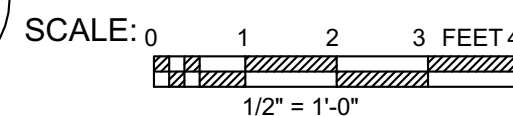


FRONT VIEW

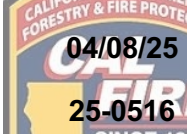


RIGHT SIDE VIEW

2 TRAILER MOUNTED GENERATOR DETAILS

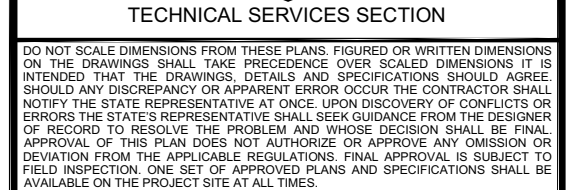


OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

The logo of the California Department of Forestry & Fire Protection (CAL FIRE) is centered. It features a shield with a red border. Inside the shield, the text "CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION" is written in a semi-circle at the top. Below this, the word "CAL FIRE" is prominently displayed in large, bold, red letters with a yellow outline. Underneath "CAL FIRE", the text "SINCE 1885" is written in smaller red letters. The date "04/08/25" is stamped in red over the top part of the shield, and the number "25-0516" is stamped in red over the bottom part of the shield.

04/08/25
25-0516

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

[illegible]

STAMP:



The stamp is a circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. The center of the seal contains the text "No. E22793" and "Exp. 6/30/25". A horizontal line is drawn across the seal, passing through the center.

855 CANYON ROAD, REDDING
CA. 96001

JOB NUMBER:	24901-8
DESIGNED BY:	O.N.
DRAWN BY:	O.N.
REVIEWED BY:	S.A.
FILE DATE:	02/06/2025
SCALE:	AS SHOWN

SHEET TITLE:	
ELECTRICAL GENERATOR	
DETAILS - SECTION B	

SHEET NUMBER:

E3.6

