

FORESTHILL PUBLIC UTILITY DISTRICT

AGENDA

Regular Business Meeting of the
FORESTHILL PUBLIC UTILITY DISTRICT BOARD OF DIRECTORS
Foresthill Elementary School, 24750 Main Street, Foresthill, CA 95631
www.foresthillpud.com

Wednesday	May 13, 2026	6:00 P.M.
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Any person may access and comment during the meeting by doing the following:

Join Zoom Meeting: <https://us06web.zoom.us/j/82837681166> Meeting ID: 828 3768 1166

1. OPEN SESSION - CALL TO ORDER 6:00 PM

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

_____ President Chase Dowling
_____ Vice President Mark Bell
_____ Treasurer Ron Thompson
_____ Director Roger Pruett
_____ Director Dianne Foster

4. ADJUSTMENTS TO THE AGENDA WITHIN CATEGORIES

5. PUBLIC COMMENT:

- Members of the public may provide comments to the Board on items that are not on the agenda. We welcome and encourage your comments as the Board takes them into consideration in our deliberations.
- Speakers are limited to a maximum of three minutes.
- The Board may not respond to, discuss, or engage in any type of dialog regarding any public comment; however, the President may direct questions to staff for a later response or future consideration by the Board.
- Appropriate and respectful language and behavior is vital to the functioning of a public meeting. We ask the Board, staff, and members of the public to speak courteously and respectfully. Therefore, the Board prohibits disruptive behavior.

6. CONSENT AGENDA: All items listed under the Consent Agenda are routine in nature and may be approved by one motion

- 6.1. Approval of April 8, 2026, Regular Board Meeting minutes
- 6.2. Receive and file combined financial reports for March 2026

7. OPERATIONS ACTION ITEMS:

- 7.1. Consideration of Resolution Authorizing Submission of Assessment District No. 2 Charges to Placer County for Collection on the 2026/27 Property Tax Rolls
Recommended action: Adopt the attached resolution authorizing the placement of Assessment District No. 2 charges on the 2026/27 Placer County property tax rolls and authorize the General Manager to submit all required documentation to Placer County for collection.
Public Comment:
- 7.2. Consideration of Resolution Authorizing Submission of Delinquent Utility Accounts to Placer County for Collection on the 2026/27 Property Tax Rolls
Recommended action: Adopt the attached resolution authorizing the placement of delinquent utility account charges on the 2026/27 Placer County property tax rolls and authorize the General Manager to submit all required documentation to Placer County for collection.
Public Comment:
- 7.3. Adopt CEQA Categorical Exemption for Generator Replacement Project (Water Treatment Plant & Pumping Plant)
Recommended action: Adopt categorical exemption
Public Comment:
- 7.4. Adopt Plans and Specifications for Generator Replacement Project and Authorize Staff to Proceed with Public Bidding
Recommended action: Adopt plans and specifications and authorize public bidding.
Public Comment:
- 7.5. Approval of Conflict Waiver for potential 2026 Foresthill Public Utility District water transfer to Westlands Water District
Recommended action: Approve Conflict Waiver and authorize General Manager to sign waiver letter
Public Comment:

8. BOARD MEMBER ACTION ITEMS:

- 8.1. Title: "Board approval of Attorney Kyler Rayden's employment contract to perform an assessment of the GM,s contract"

A three to five sentence description: "At April's board meeting the board decided to use BBK as special council for the Review process surrounding the negotiation and approval of the GM's contract in 2024. The Board also decided to bring back the Contract from BBK for approval. This is the Contract." Submitted by Chase Dowling.

"The Board is divided as to the existence of a "negotiation team" appointed in 2024 to bargain the GM's five-year contract. They are divided on the legitimacy of one Board member voting via zoom on the contract while on vacation based as defined Gov. Code. 54953 & AB 2449. Therefore, there is a need for outside counsel to resolve the conflict." Submitted by Dianne Foster

Requested outcome: "Approve BBK Contract"

Supporting documentation: *Contract with BBK in packet*

Submitted by: *Chase Dowling and Dianne Foster*

8.2. Title: *"The Board Explore hiring another Attorney Firm"*

A three to five sentence description: *"The time has come to consider hiring a different Attorney firm to represent the FPUD. The current firm has been the FPUD counsel for approximately 15 years. During this time, there have been some costly decisions made which was against the financial well-being of the FPUD and the ratepayers. The District would benefit in seeking another attorney firm with a new and fresh perspective on legal matters and advice"*

Requested outcome: *"Publish a RFP (aka Request For Proposal) in search for a new Attorney firm to represent the FPUD."*

Supporting documentation: *Attached*

Submitted by: *Dianne Foster*

9. BOARD MEMBER POLICY ACTION ITEMS:

9.1. Consider revised job description for the Treatment Plant/Distribution Operator IV position.

Recommended action: Approve revised job description

Public comment:

9.2. Title: *"Revise Policy #5025"*

A three to five sentence description: *"I am submitting Revisions to Policy 5025 because after a few months of its implementation I have found that it needs some adjustment for better understanding and work flow. I am submitting revisions to 5025.22, 5025.23, 5025.24.1, 5025.24.2, 5025.25"*

Requested outcome: *"Approve revisions"*

Supporting documentation: *"A copy of the existing Policy 5025 and the proposed revisions in strikeout"*

Submitted by: *Chase Dowling*

10. DISCUSSION ITEMS: None

11. FUTURE AGENDA ITEMS - Future agenda items are to help the General Manager and Board President craft the next month's agenda. Unless otherwise voted upon, the future agenda will comprise of no more than one new board member action item and no more than one new policy action item. Now is the time to discuss which items the board would like to see first to help prioritize efficiency.

11.1. **FUTURE BOARD MEMBER ACTION ITEMS - None**

11.2. FUTURE POLICY ACTION ITEMS - None

11.3. FUTURE DISCUSSION ITEMS - None

12. GENERAL MANAGER'S REPORT

13. DIRECTORS' ITEMS/INFORMATION ONLY

14. CLOSED SESSION -

- 14.1. Conference with real property negotiators (Gov't Code Section 54956.8).
Property: Up to 2,000 acre feet of stored Sugar Pine Reservoir water; District Negotiators: Chase Dowling and Henry N. White; Negotiating Parties: Prospective water users in the American River Basin, Central Valley or elsewhere in the federal Central Valley Project or State Water Project service areas, including but not limited to; U.S. Bureau of Reclamation, City of Folsom, City of Sacramento, Carmichael Water District, San Juan Water District, Sacramento Suburban Water District, San Luis and Delta-Mendota Water Authority and member agencies (e.g. Westlands Water District), State Water Contractors and member agencies (e.g. Santa Clara Valley Water District); Under Negotiation: Price and terms of payment for the sale of surplus stored water from Sugar Pine Reservoir.

15. REPORT OUT OF CLOSED SESSION -

16. ADJOURNMENT

In accordance with Government Code Section 54954.2(a) this notice and agenda were posted in the district's front window at the Foresthill Public Utility District office, 24540 Main Street, Foresthill, CA 95631 on or before 4:30 PM., May 6, 2026.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the General Manager at (530)367-2511. Notification 48 hours prior to the meeting will enable the district to make reasonable arrangements to ensure accessibility to this meeting.

Henry N. White, General Manager

FORESTHILL PUBLIC UTILITY DISTRICT

AGENDA

Item 6.1

Regular Business Meeting of the
FORESTHILL PUBLIC UTILITY DISTRICT BOARD OF DIRECTORS
Foresthill Elementary School, 24750 Main Street, Foresthill, CA 95631
www.foresthillpud.com

Wednesday	April 8, 2026	6:00 P.M.
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Any person may access and comment during the meeting by doing the following:

Join Zoom Meeting: <https://us06web.zoom.us/j/82837681166> Meeting ID: 828 3768 1166

1. OPEN SESSION - CALL TO ORDER 6:00 PM

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

_____	President Chase Dowling	Present
_____	Vice President Mark Bell	Present
_____	Treasurer Ron Thompson	Present
_____	Director Roger Pruett	Present
_____	Director Dianne Foster	Present

Henry N. White, General Manager, was in attendance. District Counsel, Eric Robinson was in attendance.

4. ADJUSTMENTS TO THE AGENDA WITHIN CATEGORIES

- Director Dianne Foster requested to comment.
 - Questioned why her items were not on the agenda. President Dowling suggested we wait until 13. DIRECTORS' ITEMS/INFORMATION ONLY Dianne would like to state board policies are convoluted. She interprets the policy as follows: you have to put something on the agenda for the following month. Chase stated the board policies are a living document and can be addressed and changed.
 - No adjustments

5. PUBLIC COMMENT:

- Members of the public may provide comments to the Board on items that are not on the agenda. We welcome and encourage your comments as the Board takes them into consideration in our deliberations.
- Speakers are limited to a maximum of three minutes.
- The Board may not respond to, discuss, or engage in any type of dialog regarding any public comment; however, the President may direct questions to staff for a later response or future consideration by the Board.

- Appropriate and respectful language and behavior is vital to the functioning of a public meeting. We ask the Board, staff, and members of the public to speak courteously and respectfully. Therefore, the Board prohibits disruptive behavior.

No public comments

6. **CONSENT AGENDA:** All items listed under the Consent Agenda are routine in nature and may be approved by one motion
 - 6.1. Approval of March 11, 2026, Regular Board Meeting minutes
 - 6.2. Receive and file combined financial reports for February 2026

Board Actions: Vice President Mark Bell made a motion to approve the agenda. The motion was seconded by Director Roger Pruett and carried unanimously (5-0) after roll call vote.

7. OPERATIONS ACTION ITEMS:

- 7.1. Approve Resolution 2026-02 – Declaring an election be held in Foresthill Public Utility District’s jurisdiction, requesting the Board of Supervisors to consolidate this election with any other election conducted on said date, and requesting election services by the County Clerk.

Recommended action: Approve Resolution 2026-02.

Public Comment: No Comments

Board Action: General Manager stated there's an election coming up in November. Placer Co has offered to add us to their ballots. The district has always consolidated their elections with Placer Co. They require some documents and it would cost \$5-6,000. Vice President Mark Bell motions to approve Resolution 2026-02. Director Roger Pruitt seconded the motion and carried unanimously with a (5-0) after a roll call vote.

- 7.2. Local Agency Formation Commission Special District Board Member ballot.

Recommended action: Cast ballot for one candidate and direct President to sign and submit.

Public Comment: N/A

Board Action: LAFCO is seeking members for their commission. The board has the option to nominate one candidate. Judy Freidman is already on the board and works for Tahoe Public Utility District. The other option is not to vote. President Dowling suggested we be good neighbors and nominate Judy Freeman. Vice President Mark Bell motioned to cast a ballot for candidate Judy Freidman. President Chase Dowling seconded the motion and carried unanimously (5-0) after a roll call vote.

8. BOARD MEMBER ACTION ITEMS:

- 8.1. Submitted by Chase Dowling

8.1.1. *Category: Board member action item*

8.1.2. *Title: Consider Selection of Independent Legal Counsel for Review of General Manager 2024 Employment Agreement Process*

8.1.3. *A three to five sentence description: Pursuant to prior Board direction, the ad hoc committee has identified and evaluated qualified independent legal counsel to perform a process-based assessment of the negotiation and implementation of the General Manager’s 2024 employment agreement. The committee will present its recommendations for Board consideration, including proposed scope of work and cost.*

8.1.4. Requested outcome: *Approve selection of independent legal counsel, authorize execution of an agreement for services, and approve a not-to-exceed amount for the engagement.*

8.1.5. Supporting documentation: *Enclosed*

Board Action:

Dianne Foster liked Kyler Rayden. He has a background in open government ethics among others. Chase thought Gary Bell or Colantuono, Highsmith & Whatley were also very qualified. President Chase Dowling motioned to have Director Dianne Foster contact legal counsel Kyler Rayden to notify him the board has requested his services and to write up a contract for the board to go over at the next general meeting. Dianne will send it to President Dowling. Treasurer Ron Thompson seconded the motion. Roll call vote (3-2) motion carries.

Board Action:

President Chase Dowling made a motion for the board to approve the scope of work for independent legal counsel conduct a process-based assessment of the negotiation of the General Manager's 2024 employment agreement. The scope shall include evaluation of whether the process followed and were consistent with the applicable law, including the Ralph M. Brown Act, 54950-54963, AB 2302 and AB 2449, District policies, and accepted public agency governance practices, and to provide recommendations for future compliance transparency. Independent counsel is authorized to request information from individuals, staff and counsel as needed to complete this assessment. All communications and materials provided to counsel shall be documented and preserved as part of an official record of the engagement. Directors shall limit communication with counsel to factual information and documentation relevant to the scope of work and shall not engage in deliberation outside of a duly noticed public meeting consistent with the Brown Act. Dianne Foster seconded motion. Motion carries (3-2)

Board Action: President Chase Dowling motion for review by independent counsel not to exceed \$5,000 Director Dianne Foster seconded the motion. Motion carries (3-2)

8.2. Submitted by: *Dianne Foster*

8.2.1. Category : *Not provided*

8.2.2. Title: *Not provided*

8.2.3. A three to five sentence description: *Hire an in-house Finance Manager – The FPUD has been without an in-house Finance Manager for three years this April. Board Policies 2300 and 2305 was written specifically to apply to a finance manager who is physically working in the office. The current remote finance company charges nearly \$100,000 more than an in-house contracted manager would cost per year. The Board must continue posting the position as long as it takes to hire a qualified person to fill the Finance Manager position.*

8.2.4. Requested outcome: *I am requesting the Board vote to continue posting an RFP for an in-house finance manager position at the CSDA, Indeed, Placer Job Network, Gold Country Media as well as other suggested areas.*

8.2.5. Supporting documentation: *Not provided*

Board Action: Director Dianne Foster feels there is a need for an inhouse accountant. If her proposal doesn't go through, she will propose a reduction in rate payers bills if there is a perception that FPUD is so wealthy. Director Roger Pruet and Vice President Mark Bell suggest we stay with the same firm. Mark Bell sees no benefits in having a finance manager. Treasure Ron Thompson sees value in having an inhouse accountant. He says the accountant

(LSL) can't verify anything. They can only verify what is given to them. Dianne Foster doesn't think a finance manager should work hybrid. She wants a person in-house. President Mark Bell motions to suspend all further discussion of hiring a finance manager for the next 3 years. Director Roger Pruett seconded the motion. Motion failed (2-3)

Public Comment:

Patty wants to know the background on the statement made by Ron "money is flowing out of this place!" She believes the public utility is a good company and any figures anybody needs to know can come in the office and look at.

Public comment from OWL: Sue would like to remind everyone that you have to abide by gap rules and rules of separation. Hank is only giving information to them. Sue believes FPUD needs an in-house account who understands these things.

Board Comment:

President Ron Bell addressed Treasurer Ron Thompson's comment. There are sequences of events that must happen before invoices or anything is paid. There are multiple steps in verifications. Treasure Ron Thompson has stated he has only seen a couple bank statements in the 3 years he's been here. He has requested credit card statements and bank statements and has received them very small and hard to read. These things lead to not being forthcoming. He believes we need an in-house finance manager. Dianne Foster asked Sue to speak on GAP, she has a fiance background. Dianne wants to point out there are a bunch of accounts that are being charged to, about 3-4 credit cards

General Manager Hank White stated we are audited every year. They look at every expenditure. They have no suggestion on how FPUD handles their finances. For 13 years the audit report has said their system is good.

Board Action: President Chase Dowling made a motion to suspend further discussion of hiring finance manager by board of directors for next 6 months. President Mark Bell seconded the motion. Motion carries (3-2)

9. BOARD MEMBER POLICY ACTION ITEMS:

9.1. Consider revised job description for the Treatment Plant/Distribution Operator III position.

Recommended action: Approve revised job description

Public comment:

Board Action: Vice-President Mark Bell motion to approve new revised job description operator III. President Chase Dowling seconded motion. Motion carries unanimously (5-0)

No public comment

Board Member comment: Dianne Foster: "How many treatment operators are employed now?" General Manager Hank White response: 4

10. DISCUSSION ITEMS: None

11. FUTURE AGENDA ITEMS - Future agenda items are to help the General Manager and Board President craft the next month's agenda. Unless otherwise voted upon, the future agenda will comprise of no more than one new board member action item and no more than

one new policy action item. Now is the time to discuss which items the board would like to see first to help prioritize efficiency.

11.1.FUTURE BOARD MEMBER ACTION ITEMS

11.1.1. Submitted by: *Dianne Foster*

11.1.1.1. Category: *Future Board Member Action Items*

11.1.1.2. Title: *Not provided*

11.1.1.3. A three to five sentence description: *The Board Explore hiring another Attorney Firm –The time has come to consider hiring a different Attorney firm to represent the FPUD. The current firm has been the FPUD counsel for approximately 15 years. During this time, there have been some costly decisions made which was against the financial well-being of the FPUD and the ratepayers. The District would benefit in seeking another attorney firm with a new and fresh perspective on legal matters and advice.*

11.1.1.4. Requested outcome: *I am requesting that the Board vote to initiate an RFP to replace the current firm with a new Attorney firm.*

11.1.1.5. Supporting documentation: *Not provided.*

Board Action: President Chase Dowling motioned to move to next month's agenda. Director Dianne Foster seconded the motion. Motion carries (3-2)

Public Comment: No comment

11.2.FUTURE POLICY ACTION ITEMS - None

11.3.FUTURE DISCUSSION ITEMS - None

12. GENERAL MANAGER'S REPORT

Updates are in packet. SCADA, new operator, LSL report in packet. Director Dianne Foster: on SCADA report says we haven't implemented phase 6 but we have been paying for it since July. Per Hank, we pay as work is complete. Did we buy a generator? Yes, in December 2025. The receipt says it's a quote for a sales contract. There was a grant from PCWA that purchased the generator. Who is installing the generator? BID's will go out in the next 6 months. Advertised in Sacramento builders exchange. Select lowest responsible bid. Board authorized \$140,000 to purchase generator.

13. DIRECTORS' ITEMS/INFORMATION ONLY

Meeting met 2 hours

President Chase Dowling motions for recess. Vice President Mark Bell seconded motion.

Motion carries (5-0)

Treasurer Ron Thompson left under protest

Back in session 8:09pm

14. CLOSED SESSION -

14.1. Conference with real property negotiators (Gov't Code Section 54956.8). Property: Up to 2,000 acre feet of stored Sugar Pine Reservoir water; District Negotiators: Chase Dowling and Henry N. White; Negotiating Parties: Prospective water users in the American River Basin, Central Valley or elsewhere in the federal Central Valley Project or State Water Project service areas, including but not limited to; U.S. Bureau of

Reclamation, City of Folsom, City of Sacramento, Carmichael Water District, San Juan Water District, Sacramento Suburban Water District, San Luis and Delta-Mendota Water Authority and member agencies (e.g. Westlands Water District), State Water Contractors and member agencies (e.g. Santa Clara Valley Water District); Under Negotiation: Price and terms of payment for the sale of surplus stored water from Sugar Pine Reservoir.

15. REPORT OUT OF CLOSED SESSION -

Board Action: The board has decided to let negotiators pursue the transfer of 2000acre feet of water in 2026.

No public comment

16. ADJOURNMENT 8:47pm

In accordance with Government Code Section 54954.2(a) this notice and agenda were posted in the district's front window at the Foresthill Public Utility District office, 24540 Main Street, Foresthill, CA 95631 on or before 4:30 PM., April 2, 2026.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the General Manager at (530)367-2511. Notification 48 hours prior to the meeting will enable the district to make reasonable arrangements to ensure accessibility to this meeting.

Henry N. White, General Manager

FORESTHILL PUBLIC UTILITY DISTRICT

Statement of Net Position

As of March 31, 2026

Item 6.2

	<u>Mar 31, 2026</u>
ASSETS	
Current Assets	
Bank Accounts	
10110 Cash on Hand	250
10120 Wells Fargo Checking	625,889
10510 Local Agency Investment Fund	6,603,521
10512 Umpqua Savings account	7,027
Total Checking/Savings	<u>7,236,687</u>
Accounts Receivable	348,927
Other Current Assets	251,487
Total Current Assets	<u>7,837,101</u>
Fixed Assets	10,703,839
Other Assets	323,861
TOTAL ASSETS	<u><u>\$ 18,864,801</u></u>
LIABILITIES AND NET POSITION	
Liabilities	
Current Liabilities	278,053
Long-Term Liabilities	1,439,974
Total Liabilities	<u>1,718,027</u>
Net Position	17,146,774
TOTAL LIABILITIES AND NET POSITION	<u><u>\$ 18,864,801</u></u>

FORESTHILL PUBLIC UTILITY DISTRICT
Profit & Loss Budget vs. Actuals
July 2025 - March 2026

	Jul'25 - Mar'26	Budget	\$ over Budget
Income			
41100 Consumption Billed	473,843	486,000	(12,157)
41150 Base rate - Residential	1,519,581	1,498,500	21,081
41200 Base rate - Commercial	172,413	169,500	2,913
42300 Meter Installation	4,500	1,500	3,000
42330 Line Tap	1,650	-	1,650
49200 Interest - LAIF	139,702	55,350	84,352
49210 Interest - Taxes ¹	872	900	(28)
49251 Interest - Umpqua Bank	1	-	1
49300 Property Tax Revenues ¹	74,483	93,750	(19,267)
49310 Home Owner Prop Tax exemption	302	-	302
49520 Service Charges & Reconnect	70,449	15,000	55,449
49910 Miscellaneous Income	11	-	11
49930 Grant Income	82,641	33,750	48,891
Total Income	\$ 2,540,447	\$ 2,354,250	\$ 186,197
Expenses			
51000 Wages & Salaries	634,602	684,000	(49,398)
52000 Taxes & Benefits	391,276	337,500	53,776
53000 Materials & Supplies	113,671	97,500	16,171
54000 Equipment costs	15,418	39,000	(23,583)
55000 Contracted services	169,300	127,500	41,800
55001 Professional Fees	161,222	185,250	(24,028)
56000 Resource development	60,858	61,500	(642)
57000 Utilities	53,315	58,500	(5,185)
58000 Regulatory and General	140,651	144,750	(4,099)
61000 Capital Activities	282,558	320,250	(37,692)
62400 Depreciation Expense	312,986	-	312,986
Total Expenses	\$ 2,335,857	\$ 2,055,750	\$ 280,108
Net Income	\$ 204,590	\$ 298,500	\$ (93,910)

¹Pending receipt of February & March property tax revenues from Placer County

FORESTHILL PUBLIC UTILITY DISTRICT
Profit & Loss Budget vs. Actuals
July 2025 - March 2026

	<u>Jul'25 - Mar'26</u>	<u>Budget</u>	<u>\$ over Budget</u>
Administration	426,097	394,500	31,597
Capital Expenditures	282,558	320,250	(37,692)
Customer Service	304,147	306,750	(2,603)
Distribution	364,795	387,000	(22,205)
Pumping	14,900	19,500	(4,600)
Regulatory Compliance	244,698	248,250	(3,552)
Source of Supply	19,669	20,250	(581)
Treatment	366,008	359,250	6,758
Depreciation	312,986	-	312,986
TOTAL	<u><u>\$ 2,335,857</u></u>	<u><u>\$ 2,055,750</u></u>	<u><u>\$ 280,108</u></u>

FORESTHILL PUBLIC UTILITY DISTRICT
Fund Balances
July 2025 - March 2026

	<u>7/1/2025**</u>	<u>Received</u>	<u>Paid Out</u>	<u>Transfers</u>	<u>Balance</u>
General Fund - unspendable	11,109,706			(30,428)	11,079,278
General Fund - unrestricted	3,074,463	2,457,807	1,969,116	(253,673)	3,309,481
Operating reserves	1,139,985	-	-	-	1,139,985
Debt service reserves*	164,030	-	84,184	84,184	164,030
Capital reserves	854,000	82,641	282,558	199,917	854,000
Emergency reserves	600,000	-	-	-	600,000
Total Fund balances	<u>\$ 16,942,184</u>	<u>\$ 2,540,447</u>	<u>\$ 2,335,857</u>	<u>\$ 0</u>	<u>\$ 17,146,774</u>

* This budget includes Debt Service

**Adjusted at FYE25 per Board Resolution 2021-07

**FORESTHILL PUBLIC UTILITY DISTRICT
Cash Disbursements Register**

March 2026

	Date	Num	Name	Memo	Amount
Mar 26					
	03/03/2026	14K1-JYVG-V7MV	Amazon Business	Supplies	-135.52
	03/03/2026	34666	Foresthill Garage, Inc.	2025 Chevrolet Silverado - oil change	-144.03
	03/03/2026	34667	Grant Hardware, Inc.	supplies, truck battery	-310.08
	03/03/2026	34668	Kurt Reed	Retiree Health Insurance February 2026	-300.00
	03/03/2026	34669	Sierra Saw	Supplies	-26.04
	03/03/2026	34670	USA Blue Book	New chlorine tank supplies & parts	-258.80
	03/03/2026	34671	Vision Quest Information Solutions, Inc.	IT Service March 2026 + CABLING	-5,482.35
	03/03/2026	ACH 030326	Wells Fargo Bank	AUTHNET GATEWAY BILLING	-119.85
	03/04/2026	30917450	Kronick, Moskovitz, et al	Legal fees	-3,926.06
	03/05/2026	1047	Wilson Ranch Energy	Fuel	-309.06
	03/05/2026	1053	Wilson Ranch Energy	Fuel	-85.06
	03/05/2026	14062003684R 0226	Bureau of Reclamation	Sugar Pine Fee - Feb 2026	-805.69
	03/05/2026	739A02BF-0022	Streamline	DocAccess (Monthly ADA compliance program)	-250.00
	03/06/2026	714934172	ADP	ADP PAYROLL FEES PR 022726	-172.85
	03/06/2026	73269	LSL CPAs & Assoc.	accounting assistance - Jan 26	-10,143.75
	03/10/2026	00913592267 022026	Pacific Gas & Electric	Todd Valley Well	-24.64
	03/10/2026	567099	Economy Pest Control	HQ Pest control	-84.00
	03/10/2026	70596810112 021926	Pacific Gas & Electric	HQ Power	-243.31
	03/11/2026	ACH 031126	Wells Fargo Bank	CLIENT ANALYSIS SRVC CHRG	-176.99
	03/12/2026	PR 031326	ADP	ADP Tax PR 031326 - RM final	-3,492.71
	03/12/2026	PR 031326	ADP	ADP WAGE PAY PR 031326	-29,563.30
	03/12/2026	PR 031326	ADP	ADP Tax ADP PR 031326	-11,341.19
	03/13/2026	PR 031326	CalPERS	CALPERS PEPRA PR 031326	-2,393.33
	03/13/2026	PR 031326	CalPERS	CALPERS 457b PR 031326	-500.00
	03/13/2026	PR 031326	CalPERS	CALPERS Classic PR 031326	-3,168.58
	03/17/2026	79016556	Recology Auburn Placer	HQ Refuse	-40.38
	03/17/2026	79027025	Recology Auburn Placer	WTP Refuse	-40.38

03/17/2026	ACH 031726	American Messaging	PAGING	-12.35
03/18/2026	G55821-022526	Auburn Area Answering Service	Answering Service	-228.40
03/19/2026	30917699-A	Kronick, Moskovitz, et al	legal fees	-10,000.00
03/19/2026	30917699-B	Kronick, Moskovitz, et al	legal fees	-1,517.04
03/20/2026	04722655893 030226	Pacific Gas & Electric	Streetlight	-11.29
03/20/2026	20472278	Sebastian	phone	-561.89
03/20/2026	348921 022826	J.S. West	propane	-4,372.27
03/20/2026	580784	Wizix Technology Group	copier costs	-37.04
03/20/2026	715874765	ADP	ADP PAYROLL FEES PR 031326	-306.70
03/20/2026	G000AYSM 0426	Mutual of Omaha	AD&D, LTD	-562.98
03/23/2026	6137826776	Verizon Wireless	phone/maps	-52.48
03/24/2026	34672	Blackburn Consulting	24-25 Sugar Pine Dam Instrumentation Report	-3,303.08
03/24/2026	34673	Cranmer Engineering, Inc.	Water Quality	-415.50
03/24/2026	34674	CSI Metrics	SCADA system tasks - phase 4	-16,170.00
03/24/2026	34675	Foresthill Garage, Inc.	vehicle maintenance	-180.79
03/24/2026	34676	Freedom Landscaping	Park Landscape Maintenance	-250.00
03/24/2026	34677	Hach Company	supplies	-257.26
03/24/2026	34678	Infosend	Customer invoices Feb 2026	-1,404.35
03/24/2026	34679	Itron, Inc.	Radio/MC4/Sidelooker Maintenance	-932.25
03/24/2026	34680	Keenan & Associates	April EE health ins	-24,286.93
03/24/2026	34681	Meter, Valve & Control	ERTs	-2,670.40
03/24/2026	34682	MidAmerica Admin & Ret Solutions, Inc.	Q4 2025 Retiree Health Admin Fee	-213.00
03/24/2026	34683	Placer County , Personnel	April EE Dental	-680.11
03/24/2026	34684	Sierra Mini Mart, Inc.	Fuel	-674.28
03/24/2026	34685	Webb Electrical Service, Inc.	SCADA electrical	-3,360.00
03/24/2026	34686	Wells Fargo Bank	Tools, Starlink & QBO subscriptions, supplies	-442.33
03/24/2026	34687	Worton's Foresthill Grocery	supplies	-24.76
03/25/2026	0176949761 0426	United Healthcare	Retiree Medical Care- April	-153.40
03/25/2026	0177056071 0426	United Healthcare	Retiree medical care - April	-153.40
03/26/2026	824875647	Vision Service Plan - (CA)	EE vision insurance	-111.90
03/26/2026	PR 032726	ADP	ADP Tax PR 032726	-10,527.79
03/26/2026	PR 032726	ADP	ADP WAGE PAY PR 032726	-20,783.95
03/27/2026	5836 032026	Home Depot Credit Services	supplies	-41.76

03/27/2026	PR 032726	CalPERS	CALPERS PEPRA PR 032726	-2,393.33
03/27/2026	PR 032726	CalPERS	CALPERS Classic PR 032726	-1,896.56
03/27/2026	PR 032726	CalPERS	CALPERS 457b PR 032726	-500.00
03/31/2026	04351582251 031326	Pacific Gas & Electric	Sugar Pine Dam	-1,032.59
03/31/2026	29351580658 031126	Pacific Gas & Electric	WTP Power	-2,316.60
03/31/2026	29768247297 031126	Pacific Gas & Electric	pump power	-1,159.41
TOTAL				<u><u>-\$187,536.12</u></u>



Item 7.1

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: Submittal of Assessments to Placer County for Collection on the 2026/27 Tax Rolls - Assessment District No. 2

Summary

Staff is requesting Board approval of the attached resolution authorizing submission of Assessment District No. 2 charges to Placer County for inclusion on the 2026/27 property tax rolls. This is an annual administrative action required to ensure continued collection of voter-approved assessments that fund distribution system improvements. The assessment methodology, parcel count, and total revenue to be collected remain unchanged from prior years.

Recommendation

Approve the attached resolution and authorize the General Manager to submit the required documentation to Placer County for inclusion of Assessment District No. 2 charges on the 2026/27 tax rolls.

Background

Assessment District No. 2 was established in 1996 following voter approval to finance water system distribution improvements throughout significant portions of the Foresthill Public Utility District. The associated bond financing was structured with repayment over a 30-year period through annual property assessments levied and collected via Placer County's tax roll process.

The district currently includes 1,794 parcels. The assessment rate and allocation methodology remain unchanged. For the 2026/27 fiscal year, the average annual assessment per parcel is \$46.05, generating total anticipated revenues of \$82,609.98. These funds are required for continued debt service obligations associated with the original infrastructure improvements.

Annual submittal of the required documentation to Placer County is necessary to ensure proper placement of these assessments on the secured property tax roll.

Financial Implications

Failure to approve the resolution and submit the required documentation would result in the loss of \$82,609.98 in assessment revenue for fiscal year 2026/27. This shortfall would need to be absorbed by the District's General Fund or other revenue sources, shifting costs away from benefitting properties and undermining the voter-approved funding mechanism for the improvement project.

Attachments

- Resolution Requesting Collection of Charges
- Placer County Direct Charge Transmittal Form

RESOLUTION NO. 2026-03

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE FORESTHILL PUBLIC UTILITY DISTRICT
REQUESTING COLLECTION OF CHARGES ON TAX ROLL
FOR TAX YEAR 2026-2027

TAX CODE NUMBER 70800

DIRECT CHARGE NAME Assessment District No. 2

Whereas, the Foresthill Public Utility District (hereinafter “District”) requests the County of Placer collect on the County tax rolls certain charges which have been imposed pursuant to section 16469 of the California Public Utilities Code by the District, attached hereto, and

Whereas, the County has required as a condition of the collection of said charges that the District warrant the legality of said charges and defend and indemnify the County from any challenge to the legality thereof,

Now, Therefore, Be It Hereby Resolved by the Board of the District that:

1. The Auditor-Controller of Placer County is requested to attach for collection on the County tax rolls those taxes, assessments, fees and/or charges, attached hereto.
2. The District warrants and represents that the taxes, assessments, fees and/or charges imposed by the District and being requested to be collected by Placer County comply with all requirements of state law, including but not limited to Articles XIIC and XIID of the California Constitution (Proposition 218).
3. The District releases and discharges County, and its officers, agents and employees from any and all claims, demands, liabilities, costs and expenses, damages, causes of action, and judgments, in any manner arising out of the collection by County on the property tax roll of any taxes, assessments, fees and/or charges on behalf of District.
4. In consideration for the County’s collection of the charge through the County’s property tax roll, the District agrees to and shall defend, indemnify and hold harmless the County, its officers, agents and employees (the “Indemnified Parties”) from any and all claims, demands, liabilities, costs and expenses, damages, causes of action, and judgments, in any manner arising out of the collection by County of any of District’s said taxes, assessments, fees and/or charges requested to be collected by County for District, or in any manner arising out of District’s establishment and imposition of said taxes, assessments, fees and/or charges. District agrees that, in the event a judgment is entered in a court of law

against any of the Indemnified Parties as a result of the collection of one of District's taxes, assessments, fees and/or charges, the County may offset the amount of the judgment from any other monies collected by County on behalf of District, including property taxes.

5. The District agrees that its officers, agents and employees will cooperate with the County by responding to all inquiries referred to District by County from any person concerning the District's taxes, assessments, fees and/or charges, and that District will not refer such persons to County officers and employees for response.
6. The District agrees to pay the County for the reasonable and ordinary charges to recoup its costs of placement and collection on the tax rolls at the agreed upon rate of 1% of the taxes, assessments, fees and/or charges, as provided by Government Code sections 29304 and 51800.

APPROVED, PASSED AND ADOPTED by the Foresthill Public Utility District Board of Directors on May 13, 2026, by the following vote:

AYES: 0

NOES: 0

ABSENT: 0

Signed and approved by me after its passage this 13th day of May 2026:

Chase Dowling, President of the Board of Directors

ATTEST: _____
Henry N. White, Clerk and Ex-Officio Secretary of the Board

2026/27 DIRECT CHARGE TRANSMITTAL

District Name Foresthill Public Utility District
District Address P.O. Box 266, Foresthill, CA 95631

Direct Charge Name Assessment District No. 2

Tax Code No. 70800 Resolution No. 2026-03
Parcel Count 1794 Total Amount \$82,609.98

Type of Direct Charge and Proposition 218 Compliance: (Check type and check method of compliance)

- Assessment for Special Benefit:
 - Approved by weighted majority of ballots returned
 - Exempt by Proposition 218

 - Special Tax: Approved by electorate vote

 - Fee/Charge:
 - Approved by majority vote of property owners
 - Approved by electorate vote
 - Exempt by Proposition 218

 - 1915 Act Bond: Exempt by Proposition 218
-

Authorized Signature _____ Date 5/13/2026

Contact Person Henry N. White

Contact Email Address gm@foresthillpud.com

Contact Telephone No. (530) 367-2511 Contact Fax No. None

Telephone Number to Appear on Tax Bill (530) 367-2511

Provide a brief explanation of significant (10%+) increases or decreases from last year:

Parcel count % change N/A Total dollar amount % change N/A
Explanation N/A



Item 7.2

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: Submittal of Delinquent Utility Accounts to Placer County for Collection on the 2026/27 Tax Rolls - Delinquent Accounts

Summary

Staff is requesting Board approval of the attached resolution authorizing submission of delinquent utility account charges to Placer County for inclusion on the 2026/27 property tax rolls. This is an annual administrative process that allows the District to recover unpaid charges for water service provided to properties within the District. Use of the tax roll collection process ensures equitable cost recovery, protects the District's financial stability, and prevents unpaid balances from being shifted to ratepayers who remain current on their accounts.

Recommendation

Approve the attached resolution and authorize the General Manager to submit the required documentation to Placer County for inclusion of delinquent utility accounts on the 2026/27 property tax rolls.

Background

Placer County permits the District to recover unpaid utility charges by placing delinquent balances on the annual secured property tax roll as a lien against the benefiting property. This process ensures that the financial responsibility for water service remains with the property owner receiving the benefit of that service and prevents those costs from being unfairly absorbed by other paying customers.

As of the current reporting period, the total outstanding balance of accounts more than 90 days delinquent is \$172,851.60 across 182 accounts. Property owners are provided monthly billing statements and regular account notices regarding outstanding balances. In addition, the District sends a separate delinquency notification letter to all accounts

exceeding 90 days past due, specifically advising owners of the outstanding balance and providing the option to either pay the balance in full or have the amount placed on the property tax roll for collection. Property owners who enter into approved payment arrangements are removed from the lien list.

This process provides ample notice and multiple opportunities for property owners to resolve delinquent balances prior to tax roll submission. Annual Board approval and submittal of the required documentation are necessary to complete the collection process with Placer County.

Financial Implications

Failure to approve the resolution and submit the required documentation would prevent the District from recovering \$172,851.60 in delinquent utility charges for fiscal year 2025/26. This would require the District to absorb the loss through the General Fund or other operating revenues, effectively shifting the financial burden to customers who have paid their bills on time. Utilizing the property tax roll remains the most reliable, equitable, and cost-effective collection method available to the District.

Attachments

- Resolution Requesting Collection of Charges
- Direct Charge Transmittal Form
- List of Assessed Properties

RESOLUTION NO. 2026-04

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE FORESTHILL PUBLIC UTILITY DISTRICT
REQUESTING COLLECTION OF CHARGES ON TAX ROLL
FOR TAX YEAR 2026-2027

TAX CODE NUMBER 72700

DIRECT CHARGE NAME Foresthill PUD Delinquent Charges

Whereas, the Foresthill Public Utility District (hereinafter “District”) requests the County of Placer collect on the County tax rolls certain charges which have been imposed pursuant to section 16469 of the California Public Utilities Code by the District, attached hereto, and

Whereas, the County has required as a condition of the collection of said charges that the District warrant the legality of said charges and defend and indemnify the County from any challenge to the legality thereof,

Now, Therefore, Be It Hereby Resolved by the Board of the District that:

1. The Auditor-Controller of Placer County is requested to attach for collection on the County tax rolls those taxes, assessments, fees and/or charges, attached hereto.
2. The District warrants and represents that the taxes, assessments, fees and/or charges imposed by the District and being requested to be collected by Placer County comply with all requirements of state law, including but not limited to Articles XIIC and XIID of the California Constitution (Proposition 218).
3. The District releases and discharges County, and its officers, agents and employees from any and all claims, demands, liabilities, costs and expenses, damages, causes of action, and judgments, in any manner arising out of the collection by County on the property tax roll of any taxes, assessments, fees and/or charges on behalf of District.
4. In consideration for the County’s collection of the charge through the County’s property tax roll, the District agrees to and shall defend, indemnify and hold harmless the County, its officers, agents and employees (the “Indemnified Parties”) from any and all claims, demands, liabilities, costs and expenses, damages, causes of action, and judgments, in any manner arising out of the collection by County of any of District’s said taxes, assessments, fees and/or charges requested to be collected by County for District, or in any manner arising out of District’s establishment and imposition of said taxes, assessments, fees and/or charges. District agrees that, in the event a judgment is entered in a court of law

against any of the Indemnified Parties as a result of the collection of one of District's taxes, assessments, fees and/or charges, the County may offset the amount of the judgment from any other monies collected by County on behalf of District, including property taxes.

5. The District agrees that its officers, agents and employees will cooperate with the County by responding to all inquiries referred to District by County from any person concerning the District's taxes, assessments, fees and/or charges, and that District will not refer such persons to County officers and employees for response.
6. The District agrees to pay the County for the reasonable and ordinary charges to recoup its costs of placement and collection on the tax rolls at the agreed upon rate of 1% of the taxes, assessments, fees and/or charges, as provided by Government Code sections 29304 and 51800.

APPROVED AND ADOPTED by the Foresthill Public Utility District Board of Directors on May 13, 2026, by the following vote:

AYES: 0
NOES: 0
ABSENT: 0

Signed and approved by me after its passage this 13th day of May 2026:

Chase Dowling, President of the Board of Directors

ATTEST: _____
Henry N. White, Clerk and Ex-Officio Secretary of the Board

2026/27 DIRECT CHARGE TRANSMITTAL

District Name Foresthill Public Utility District
District Address P.O. Box 266, Foresthill, CA 95631

Direct Charge Name Foresthill PUD Delinquent Charges

Tax Code No. 72700 Resolution No. 2026-04

Parcel Count 182 Total Amount \$172,851.60

Type of Direct Charge and Proposition 218 Compliance: (Check type and check method of compliance)

- Assessment for Special Benefit:
 - Approved by weighted majority of ballots returned
 - Exempt by Proposition 218

 - Special Tax: Approved by electorate vote

 - Fee/Charge:
 - Approved by majority vote of property owners
 - Approved by electorate vote
 - Exempt by Proposition 218

 - 1915 Act Bond: Exempt by Proposition 218
-

Authorized Signature _____ Date 5/13/2026

Contact Person Henry N. White

Contact Email Address gm@foresthillpud.com

Contact Telephone No. (530) 367-2511 Contact Fax No. None

Telephone Number to Appear on Tax Bill (530) 367-2511

Provide a brief explanation of significant (10%+) increases or decreases from last year:

Parcel count % change 8.33% Total dollar amount % change 15.69%

Explanation Undetermined differences in payment habits of customers. Probably due to Gubernatorial restrictions on terminating water service during COVID – 19 and AB 998.

Tax Year 2026/2027 Delinquent List

Total Due	Parcel Number	Total Due	Parcel Number	Total Due	Parcel Number	Total Due	Parcel Number
\$1,113.06	257-150-017-000	\$1,899.48	007-210-018-000	\$350.80	257-120-049-000	\$818.88	007-090-014-000
\$550.64	257-150-024-000	\$4,259.84	258-210-082-000	\$923.74	255-060-044-000	\$831.92	007-090-005-000
\$836.38	257-180-043-000	\$667.72	257-100-034-000	\$1,982.04	256-080-024-000	\$1,196.02	257-260-001-000
\$1,025.28	257-180-047-000	\$105.38	257-070-057-000	\$545.82	255-060-038-000	\$786.02	257-250-030-000
\$1,325.80	257-180-049-000	\$1,029.54	257-190-022-000	\$533.52	007-230-005-000	\$320.32	007-090-002-000
\$902.44	257-100-012-000	\$470.88	257-070-053-000	\$817.50	257-170-036-000	\$2,036.86	007-153-003-000
\$876.46	257-220-027-000	\$418.56	257-030-021-000	\$1,031.80	257-140-027-000	\$435.42	257-210-039-000
\$432.22	257-100-013-000	\$972.94	257-060-019-000	\$801.92	007-045-077-000	\$1,271.14	257-250-006-000
\$455.40	257-230-031-000	\$831.92	007-160-011-000	\$832.14	007-045-027-000	\$1,049.08	257-210-064-000
\$952.80	255-090-023-000	\$463.52	257-270-029-000	\$1,146.12	073-410-009-000	\$1,247.00	258-170-048-000
\$1,010.04	073-380-007-000	\$1,071.42	257-080-019-000	\$1,008.82	257-170-039-000	\$867.76	007-151-010-000
\$766.82	007-045-042-000	\$396.68	007-154-005-000	\$772.90	257-090-030-000	\$505.72	257-250-010-000
\$1,415.34	258-210-066-000	\$1,441.22	007-170-024-000	\$879.78	257-240-005-000	\$873.58	257-250-009-000
\$1,032.82	257-110-035-000	\$788.92	007-045-061-000	\$862.04	257-120-006-000	\$685.74	255-040-013-000
\$910.18	257-190-038-000	\$915.76	257-160-010-000	\$1,112.80	257-140-052-000	\$831.92	007-152-005-000
\$369.82	257-020-044-000	\$1,093.68	257-030-055-000	\$920.36	257-270-009-000	\$1,387.80	007-220-063-000
\$606.48	257-190-037-000	\$1,172.22	257-100-025-000	\$479.00	257-270-008-000	\$1,031.82	257-240-053-000
\$864.72	255-090-019-000	\$1,142.14	257-180-014-000	\$1,099.52	257-140-056-000	\$978.14	007-240-019-000
\$238.70	257-190-033-000	\$1,300.08	255-080-016-000	\$903.92	255-060-030-000	\$974.64	007-080-055-000
\$560.92	257-210-026-000	\$913.94	257-100-019-000	\$502.36	257-170-045-000	\$1,550.52	256-010-012-000
\$494.26	255-100-028-000	\$638.14	257-060-014-000	\$874.38	007-152-001-000	\$527.70	078-220-022-000
\$1,489.90	255-100-027-000	\$1,383.12	257-030-016-000	\$150.54	257-240-011-000	\$1,369.90	257-220-017-000
\$1,347.82	257-090-052-000	\$473.72	257-100-022-000	\$1,224.16	257-100-005-000	\$890.56	257-240-040-000
\$1,405.22	255-100-024-000	\$822.62	257-140-033-000	\$549.96	257-240-028-000	\$164.32	078-230-002-000
\$679.04	257-150-051-000	\$866.24	257-030-040-000	\$417.72	257-250-038-000	\$424.66	007-220-072-000
\$549.44	257-210-024-000	\$826.34	257-140-047-000	\$629.10	257-090-049-000	\$1,011.36	007-240-062-000
\$584.64	257-110-032-000	\$1,113.50	255-080-029-000	\$1,513.16	257-260-012-000	\$1,169.82	257-210-017-000
\$1,364.00	257-170-065-000	\$1,004.34	007-045-025-000	\$917.56	257-090-050-000	\$990.42	257-210-018-000
\$588.64	255-100-048-000	\$1,210.56	258-130-050-000	\$1,059.16	257-280-001-000	\$758.06	257-230-034-000
\$1,142.98	257-110-006-000	\$861.40	257-280-039-000	\$956.40	073-380-036-000	\$586.20	007-170-012-000
\$648.16	257-110-030-000	\$438.94	257-090-018-000	\$663.84	255-060-015-000	\$1,004.32	007-183-022-000
\$1,154.86	073-390-049-000	\$503.28	257-200-014-000	\$907.90	257-260-030-000	\$1,397.70	007-182-015-000
\$1,257.32	073-390-027-000	\$2,464.58	007-045-049-000	\$952.48	255-090-008-000	\$778.80	007-101-002-000
\$1,187.74	257-110-003-000	\$366.60	257-030-036-000	\$887.56	257-210-057-000	\$831.92	007-060-014-000
\$618.32	007-045-066-000	\$955.64	257-200-021-000	\$672.10	257-260-017-000	\$4,585.26	007-060-013-000
\$518.98	257-140-060-000	\$740.22	257-060-009-000	\$515.64	255-070-013-000	\$891.74	007-060-012-000
\$1,423.22	073-390-035-000	\$643.54	007-220-037-000	\$936.94	257-260-018-000	\$641.00	007-060-008-000
\$834.86	257-040-035-000	\$532.98	257-200-017-000	\$894.08	255-070-014-000	\$2,018.04	007-104-007-000
\$884.66	257-080-030-000	\$424.66	257-060-007-000	\$574.72	073-380-037-000	\$1,145.46	007-104-008-000
\$1,143.38	257-180-034-000	\$778.02	257-200-005-000	\$2,748.48	007-090-009-000	\$2,545.44	007-151-009-000
\$877.78	257-050-010-000	\$483.70	257-210-010-000	\$1,205.28	007-080-062-000	\$1,071.42	257-180-044-000
\$994.86	257-040-009-000	\$190.36	257-030-034-000	\$741.26	255-070-022-000	\$1,073.28	078-240-002-000
\$746.50	007-060-026-000	\$901.74	257-070-019-000	\$1,263.58	007-045-090-000	\$802.12	078-240-024-000
\$867.10	257-180-037-000	\$1,176.98	257-220-046-000	\$1,024.18	255-070-041-000	\$1,099.14	078-230-003-000
\$792.20	257-180-001-000	\$791.20	257-150-015-000	\$1,081.00	257-240-030-000	Total	Parcel Count
\$1,174.60	257-070-062-000	\$935.10	257-250-034-000	\$624.42	258-190-008-000	\$172,851.60	182

Delinquent List for the 2025/2026 Tax Year:
Parcel Count: 168
Total Due: \$149,407.38



Item 7.3

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: CEQA Determination – Generator Replacement Project

Summary

The Foresthill Public Utility District is proceeding with the replacement of two existing emergency generators serving the water treatment plant and pumping plant. Both units have exceeded their useful life and are being replaced with modern equipment of similar function and capacity to maintain system reliability.

Prior to taking further discretionary action on the project, including adoption of plans and specifications and authorization to bid, the District must comply with the requirements of the California Environmental Quality Act (CEQA).

CEQA Process and Timing

CEQA requires that environmental review be completed before a public agency commits to a project. Pursuant to CEQA Guidelines §15004, environmental analysis must occur early enough to inform decision-makers prior to approval of project actions that could limit alternatives or mitigation measures.

Adoption of plans and specifications is considered a discretionary action that advances the project toward construction. Therefore, the District must complete its CEQA determination before taking that step.

Project Description

The project consists of replacing two existing backup generators located at established District facilities. Work includes installation of a new generator, electrical connections, and minor site improvements necessary for operation. The project will occur entirely within existing developed sites and will not expand capacity or change the fundamental use of the facilities.

Next Steps

Following Board adoption of the CEQA determination:

- Staff will file a Notice of Exemption.
- Staff will return to the Board with plans and specifications for formal adoption.
- Upon adoption of plans and specifications, the project will proceed to public bidding in accordance with applicable public works requirements.
- The Board will retain full authority to approve the construction contract prior to project implementation.

Schedule

- CEQA Determination: Spring 2026
- Plans & Specifications Adoption: Following CEQA approval
- Bidding and Award: 2026
- Construction Completion: Early 2027

Recommendation

Adopt the CEQA categorical exemption for the Generator Replacement Project and direct staff to file the Notice of Exemption.

Notice of Exemption

Form D

To: Office of Planning and Research

From: Foresthill Public Utility District

PO Box 3044, 1400 Tenth Street, Room 222
Sacramento, CA 95812-3044

P.O. Box 266
Foresthill, CA 95631

(Public Agency and Address)

County Clerk, County of: Placer

Project Title: Generator Replacement Project (Water Treatment Plant & Pumping Plant)

Project Location - Specific: Foresthill Public Utility District Water Treatment Plant and Pumping Plant facilities, Foresthill, Placer County, California

Project Location - City: Foresthill area **Project Location - County:** Placer

Description of Project: The project consists of the replacement of two existing emergency backup generators serving the District's water treatment plant (installed in the early 1980s) and pumping plant (installed in the early 1990s).

The new generator will be installed within existing developed utility sites and will serve the same purpose and capacity as the existing units. Work includes removal of existing equipment, installation of a replacement generator, and minor associated electrical and site improvements.

Purpose: The purpose of the project is to maintain reliable emergency power for critical public water system infrastructure. Beneficiaries include the District's customers and the general public who rely on continuous and safe water service.

Name of Public Agency Approving Project: Foresthill Public Utility District

Name of Person or Agency Carrying Out Project: Henry N. White, General Manager

Exempt Status: (check one)

Ministerial (Sec. 21080(b)(1); 15268)

Declared Emergency (Sec. 21080(b)(3); 15269(a));

Emergency Project (Sec. 21080(b)(4); 15269(b)(c));

Categorical Exemption. State type and section number: Class 1, Section 15301 and Class 2, Section 15302 (c)

Statutory Exemption. State code number: _____

Reasons why project is exempt: The project involves the replacement of existing public utility equipment within established facilities with new equipment of substantially the same size, purpose, and capacity. The work constitutes minor alteration of existing facilities with no expansion of use.

The project is consistent with the categorical exemptions for Existing Facilities and Replacement or Reconstruction. The District has evaluated the exceptions to categorical exemptions and determined that none apply.

Lead Agency

Contact Person: Henry N. White, General Manager

Area Code/

Telephone/Extension: 530-367-2511

If filed by applicant:

1. Attach certified document of exemption finding.

2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: _____ Date: May 13, 2026 Title: General Manager

Henry N. White

Signed by Lead Agency

2026.05 13 Regular Board Packet R2.pdf
 Signed by Applicant

Date received for filing at OPR: _____

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Item 7.4

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: Generator Replacement Project – Adoption of Plans and Specifications and Authorization to Proceed with Public Bidding

Summary

Foresthill Public Utility District operates two critical emergency generators: one serving the water treatment plant (installed early 1980s) and one serving the pumping plant (installed early 1990s). Both units have reached the end of their useful life and require replacement to ensure system reliability during power outages and emergencies.

Staff successfully secured a \$135,000 grant to offset project costs. In November 2025, the Board of Directors unanimously authorized the purchase of a replacement generator, which was completed in December 2025. Delivery is anticipated in June 2026. The next phase of the project is construction and installation.

Public Works Contracting Process (California Requirements)

As a public agency, the District is required to follow established California Public Contracting and Public Works statutes for construction projects. These statutes are designed to ensure transparency, fairness, and fiscal responsibility in the use of public funds.

- **Adoption of Plans and Specifications:** Prior to bidding, the Board must formally adopt the project plans and specifications. This step establishes the technical and contractual framework for the work.
- **Competitive Bidding Requirements:** Pursuant to the **California Public Contract Code § 22032** (Uniform Public Construction Cost Accounting Act), projects exceeding statutory thresholds must be competitively bid.
- **Award to Lowest Responsive Bidder:** Under **California Public Contract Code § 20162**, construction contracts are awarded to the lowest responsive and responsible bidder following a public bidding process.

- **Board Approval:** The Board retains full authority to review the bid results and must approve the contract award before construction can proceed.

This structured process ensures that the Board maintains oversight at key decision points while allowing qualified professionals to design and competitively price the work.

Plans and Specifications

The project plans and specifications have been prepared by licensed professional engineers at Peters Engineering, in accordance with applicable engineering standards, safety requirements, and regulatory criteria. These documents define the technical requirements necessary to safely and effectively install the new generator system. The Board's role at this stage is to adopt the plans and specifications, thereby authorizing staff to proceed with the public bidding process. This action confirms that the project is ready to move forward under established public works procedures.

Next Steps

Upon Board adoption of the plans and specifications:

- Staff will advertise and solicit competitive bids in accordance with Public Contract Code requirements.
- Bids will be evaluated for responsiveness and responsibility.
- Staff will return to the Board with a recommendation for contract award to the lowest responsive bidder.
- Construction will not proceed without explicit Board approval.

Schedule

- Generator Delivery: June 2026
- Bidding and Contract Award: Summer/Fall 2026
- Construction Completion: Early 2027

Recommendation

Adopt the plans and specifications for the Generator Replacement Project and authorize staff to proceed with the public bidding process in accordance with California Public Contracting requirements.

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SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

PART 1 - GENERAL

1.01 SCOPE

- A. Provide electrical systems as shown and specified, including wiring and connections to any electrical equipment provided and any work not specifically noted but that can be reasonably inferred or is necessary to provide a complete functional system.
- B. Section Includes:
 - 1. Electrical equipment coordination.
 - 2. Sleeves for raceways and cables.
 - 3. Sleeve seals.
 - 4. Grout.
 - 5. Common electrical requirements.

1.02 DEFINITIONS

- A. EPDM: Ethylene-Propylene-Diene Terpolymer rubber.
- B. NBR: Acrylonitrile-Butadiene rubber.
- C. CBC: California Building Code 2016.

1.03 DRAWINGS AND SPECIFICATIONS

- A. For purposes of clearness and legibility, drawings are essentially diagrammatic and, although size and location of equipment are drawn to scale wherever possible, the Contractor shall make use of all data in all the contract documents and shall verify this information at building site.
- B. Information presented on Drawings and in the Specifications is based upon latest data available during their preparation. The Drawings and Specifications are for the assistance and guidance of the Contractor and exact locations, distances, levels, etc. will be governed by the structures and the site the contractor shall accept same with this understanding.
- C. The drawings indicate required size and points of termination of pipes, and suggest proper routes to conform to structure, avoid obstructions and preserve clearances. However, it is not intended that drawings indicate all necessary offsets, and it shall be the work of the Contractor to make the installation in such a manner as to conform to structure, avoid obstruction, preserve headroom and keep openings and passageways clear.

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1.04 DELIVERY, STORAGE, AND HANDLING

- A. Contractor shall be responsible for delivery, storage, protection and placing of all equipment and materials.
- B. Equipment stored and installed at the job site shall be protected from dust, water or other damage. Cover all equipment stored exposed to weather.

1.05 STRUCTURAL REQUIREMENTS

- A. Structural members shall not be cut or modified in any manner without specific instructions from the structural engineer.

1.06 SEISMIC RESISTANCE

- A. Provide systems, units, equipment, and parts to meet or exceed current applicable requirements for seismic resistance specified by codes, regulations, or agencies having jurisdiction. Include supports, anchors, braces, and other restraining devices required. Seismic restraints shall meet the local Seismic Zone requirements, SMACNA, and California Building Code (CBC), Chapter 16a, which are the responsibility of the Contractor.
- B. Design of seismic bracing will be per CBC Chapter 16.
- C. See Section 26 05 29 Hangers and Supports.

1.07 RULES AND REGULATIONS

- A. All work and materials shall be in full accordance with the latest rules and regulations of California Code of Regulations, Title 20 & Title 24 California Building Standards Code, California Electrical Code, Local City and County Code, applicable regulations of local utility companies, E.U.S.E.R.C. Standards, and General Order 95 of the Public Utilities Commission, and any other applicable laws or regulations.
- B. Nothing in these drawings or specifications is to be construed to permit work not conforming to the above codes.

1.08 PERMITS AND FEES

- A. Obtain all permits and pay all required fees for permits and/or utility services. Inspections required during the course of construction shall be arranged as required. On completion of the work furnish the District's representative with certificates of inspection.
- B. Include in bid all costs for electrical service including meter, and service lines installed by a power utility company or a power utility company approved contractor.

1.09 SITE CONDITIONS

- A. Assume all responsibility for damage to adjoining properties; and restore property to its original condition, should damage occur as a result of the work of this section. Contractor

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shall thoroughly familiarize himself with all site conditions. Should utilities not shown on the drawings be found during excavations, promptly notify the District's Representative for instructions as to further action. Failure to do so will make the Contractor liable for any and all damage thereto arising from his operations subsequent to discovery of such utilities not shown on plans.

1.10 SUBMITTALS

A. Submit in accordance with Division 01 Shop Drawings, Product Data and Samples

B. General

1. A submittal schedule shall be issued by the Contractor within 15 days of award of the contract. This schedule shall allow for timely review and approval as required by the contract documents.
2. These requirements apply only to substitutions, submittals, and shop drawings.
3. The contractor shall review all submittals prior to submission to the Architect. Submittals not reviewed by the contractor will be returned to the contractor and will not be reviewed.
4. Any deviations from specified requirements shall be clearly indicated in submittals.
5. Any errors in or omissions from submittals and any consequences of these are the responsibility of the Contractor.
6. Partial or incomplete submittals may be rejected as not complying with requirements; the Contractor shall be liable for any resultant consequences.
7. Delayed submittals may be rejected as not complying with requirements. Whether accepted or rejected, delayed submittals will not be considered justification for extension of contract time or similar relief.
8. Submittals not required or permitted by the Specifications but made at the option of the Contractor, will be returned without review unless accompanied with written valid justification.
9. Submittal items improperly included with those of another category (such as a proposed substitution included with shop drawing submittal) are not valid and will be returned without review.
10. Within 35 calendar days after award of the contract, and before fabrications and installation of any material or ordering of any materials, submit for approval one copy in PDF format of complete submittal data on specified and proposed substituted equipment and materials. Submittals shall list all materials proposed identified with drawing symbols and specific data on equipment such as arrangements, performance curves, sizes, capacity, motor locations, and other pertinent data. Check all submittals for conformance to the requirements of the Construction Documents before forwarding to the District's Representative for each item. No consideration will be given to substitutions submitted past 35 day limit. The contractor shall be responsible for all quantities and errors and omissions of submittals. Furnish samples when requested.
11. Equipment and materials specified as part of the specifications and drawings are listed by two manufacturers names. The first named manufacturer is the basis of design. The second named manufacturer has been determined to be an

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equivalent in quality or utility. The second named has not been specifically determined to conform to the first named in size, layout, electrical power, voltage, or impacts to building structure. The contractor is bound by all requirements for substitutes, as described below, for all second named manufacturers and equivalent equipment or products.

12. Each reviewed submittal will be marked to indicate review and directions as stated below.
13. Acceptance of a submittal does not relieve the Contractor of responsibility for omissions from the submittal or errors in the submittal

1.11 REVIEW

- A. Submittals will be reviewed for general acceptability, not necessarily including all details. The engineer's review is for general conformance with the design concept of the project and the information given in the contract documents. The contractor is solely responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating the work with that of other trades and performing all work in a safe and satisfactory manner. Corrections of comments made on this submittal during this review do not relieve contractor from compliance with the requirements of the contract documents or with its responsibilities listed herein.
 1. Proposed substitutes will be judged not only for the acceptability of the items themselves, but also how they will be used under the conditions of the particular project.
 2. Proposed substitutions will be judged also for compliance with qualifications and conditions stipulated in paragraph 1.15.
- B. Each reviewed submittal will be marked to indicate review and directions as stated below.
 1. Acceptance of a substitute does not waive the specified requirements.
 2. Once a substitution is accepted, no revision or resubmittal may be made except for pressing and valid reason and after receipts of approval to do so.

1.12 REVIEW DIRECTIONS

- A. The notation "No Exceptions Taken" indicates that no further submittal on the particular matter is required and that the Contractor may proceed with normally ensuing action. The notation may be applied to submittals on substitutions, shop drawings, record data, or operation and maintenance data. The submittal has only been reviewed for general conformance with the design concept of the Contract Documents. The contractor is responsible for the dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to the means and methods of construction; coordination of the work of all trades; and performing all work in a safe and satisfactory manner. This notation does not modify the contractor's duty to comply with the contract documents.
- B. The notation "Make Corrections Noted" indicates that no further submittal on the particular matter is required, but the Contractor shall make all changes or corrections noted (but no others) before proceeding with normally ensuing action. The notation may

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be applied to submittals on substitutions or shop drawings (but usually not record data or operation and maintenance data).

- C. The notation "Amend and Resubmit" indicates that the submittal is not accepted and must be revised, resubmitted, and reviewed again. In the case of submittal on substitutions and shop drawings so noted, the Contractor shall not proceed with any normally ensuing action until the resubmittal is reviewed. The notation may be applied to submittals on substitutions, shop drawings, record data, or operation and maintenance data.
- D. The notation "Rejected - See Remarks" indicates that the submittal is not accepted and that resubmittal on the same subject matter is not allowed and will not be considered. The notation will be applied normally only to submittals on substitutions (usually not on shop drawings, record data, or operation and maintenance data).
- E. The notation "Returned Without Review" indicates that the submittal or item has not been considered officially because it is either not proper, valid, required, or permitted by the Specifications and has no status or effect.

1.13 SHOP DRAWINGS

- A. The contractor is responsible for providing all shop drawings as described below so that the design professional has the opportunity to determine if the contractor understands the contract documents. It is not the purpose of shop drawings to assure that the contractor is meeting the requirements of the contract documents. Review and approval of a submittal neither extends nor alters any contractual obligation.
- B. Accompany all substituted equipment with shop drawings showing revised equipment and/or equipment layouts in order to ascertain that substituted equipment does not adversely affect layout or work of others. Shop Drawings: The following conditions apply to shop drawings:
 - 1. Shop drawings are not and do not become Contract Documents.
 - 2. Processed shop drawing submittals and any instructions or requirements noted thereon are a part of the work, but they may not be used as a means of increasing the scope of the work.
 - 3. If deviations, discrepancies, or conflicts between shop drawing submittals and the Contract Documents are discovered either prior to or after the submittals are processed, the Contract Document requirements shall govern.

1.14 SUBSTITUTIONS

- A. Whenever any equipment, material, or process is indicated or specified by patent of proprietary name and/or name of Manufacturer, in the Specifications and/or on the Drawings, it is understood that such specification is used to facilitate the description of the material and/or process and deemed to be followed by the words "or equal" unless noted "no substitute".
- B. Substitute equipment and materials shall be equal in all respects including quality, arrangement, utility, physical size, capacity, and performance to those specified. Approval of substitute material will not relieve the contractor from complying with the

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requirement of the Drawings and Specifications. The contractor shall be responsible and at his own expense, for any changes caused by proposed substitutions which affect other parts of his own work or the work of other contractors.

- C. The submittal of a proposed substitution shall clearly establish the following:
1. The item can be transported into and installed in the intended space and in the manner shown.
 2. Required connections (electrical and other) can be properly made and adjoining work can be properly accomplished.
 3. The proposed substitute is similar to and of substance equal to that specified, is suited to the same use as that specified, and will perform the functions required by the design.
 4. The proposed substitute equipment will have the same minimum ratings and dimensions that accommodate the available space as the specified equipment.
 5. All performance requirements shall be at least equal to the specified product or equipment including short circuit current rating, selective coordination, noise levels, temperature ratings, bracing and insulation ratings, etc.
- D. By submitting a proposed substitution, the Contractor agrees to the following:
1. He will assume full responsibility for any and all modifications and necessary alterations arising from the use of the substitute item or material including all cost incurred by all other trades.
 2. He will assume full responsibility for any delay in the construction schedule resulting from the use of the substitution.
 3. He will prove harmless and indemnify the District and the District's design consultants from real or alleged damages that may result from the installation, use, or performance of a substitute material or product.
- E. The following conditions apply to substitutions:
1. Submittals of substitutions are not and do not become part of the Contract Documents.
 2. Contractor shall not order, fabricate, use, or install any substitute product or procedure unless he has received acceptance of the substitute from the District's Representative.
 3. Should the Contractor install any substitute product in violation of the above he shall remove it and install the specified product at his own expense.
 4. The Contractor shall provide a letter stating that all the above items shall apply to all substituted products and equipment.
 5. Any submittal for substituted equipment or product that does not clearly show that the substituted item is equal shall be marked rejected and no further submittal shall be allowed on the substituted item. Provide in submittal format documentation that the proposed item is exactly as specified in the contract documents.

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1.15 INSTALLATION

A. Manufacturer's Instructions:

1. When specifications require that installation comply with manufacturer's printed instructions, obtain and distribute copies of such instructions to parties involved in the installation.
2. Perform work in accordance with manufacturer's instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by specifications.
3. Handle, install, connect, clean, condition and adjust products in strict accordance with such instructions and in conformity with specified requirements.
4. Should job conditions or specified requirements conflict with manufacturer's instructions, consult with the District's Representative for further instructions.
5. Do not proceed with work without clear understanding.

1.16 COORDINATION

A. Coordinate arrangement, mounting, and support of electrical equipment:

1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
2. To provide for ease of disconnecting the equipment with minimum interference to other systems.
3. To allow right of way for piping and conduit positioned at required slope.
4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

B. Coordinate placement of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

1.17 WORKMANSHIP

A. Good workmanship shall be evidenced in the placement of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanent. The requirements of the codes are minimum standards. The recommendations of the National Electrical Contractors Association Standards shall be followed except where otherwise specifically directed.

1.18 CLEANING

A. After all other work such as plastering, painting, etc., has been accomplished, lighting, panelboards, switchboards, and all other electrical equipment shall be cleaned of all dirt, grease, plaster, paint or other marks.

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1.19 ELECTRICAL WORK FOR EQUIPMENT PROVIDED BY OTHER DIVISIONS

- A. Provide all necessary electrical connections to all equipment provided by other divisions. Obtain specific power and control wiring requirements and connection points from others to perform electrical work. Contractor shall assist in testing equipment but responsibility is limited to correctly wiring and terminating electrical connections.
- B. All control wiring for mechanical space conditioning and ventilation equipment, both line and low voltage, shall be provided in the mechanical work, except for line voltage control wiring for exhaust fan switches which shall be in the electrical work. Disconnect switches and motor starters shall be provided.

1.20 SEISMIC RESISTANCE

- A. Provide systems, units, equipment, and parts to meet or exceed current applicable requirements for seismic resistance specified by codes, regulations, or agencies having jurisdiction. Include supports, anchors, braces, and other restraining devices required. Seismic restraints shall meet the local Seismic Zone requirements, SMACNA, and California Building Code (CBC), Chapter 16a, which are the responsibility of the Contractor.
- B. Design of seismic bracing will be per CBC Chapter 16.

1.21 MISCELLANEOUS EQUIPMENT

- A. Contractor shall provide conduit, conductors, disconnects, and connections for power and controls for equipment requiring electrical services. This includes materials required for temporary services and testing.

1.22 GUARANTEE

- A. Guarantee all work for one year from date of acceptance, against all defects in material, equipment and workmanship including repair of damage to any part of the premises resulting from leaks or other defects in material, equipment and workmanship. Guarantee shall be on form supplied by the District's representative.

1.23 RECORD DRAWINGS

- A. Changes including the result of RFI's or field directives shall be included in a record set provided by the Contractor in an electronic format compatible with system used to produce the original contract drawing set. Provide a copy of the marked-up field set along with the electronic file. It will not be acceptable to cut and paste the drawing changes to this set.

PART 2 - PRODUCTS

2.01 SHOP DRAWINGS:

- A. Make all drawings to an appropriate scale, large enough to show all pertinent aspects of the item and the method of its connection into the work.

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- B. Make each drawing sheet in a reproducible form, CAD, Revit or PDF.
- C. Grouping: Combine submittals in logical groupings; for example, submit Shop Drawings grouped by Sections of the Specifications, arranged in the specified sequence.
- D. Content:
 - 1. Shop drawings may be:
 - a. Drawings or diagrams prepared by the Contractor, a supplier, a manufacturer, or other.
 - b. Typewritten data or descriptions.
 - c. Manufacturer's printed brochures, descriptions, charts, instructions, or data sheets.
- E. Timing: Submit all shop drawings prior to installation of any items included in submittal.

2.02 MATERIALS

- A. Unless otherwise noted, all material and equipment shall be new, of the type, capacity and quality specified and free from defects. Material shall bear the label of, or be listed by, the Underwriters' Laboratories or Nationally Recognized Testing Laboratory (NRTL).
- B. Materials shall be of the same brand or manufacture throughout for each class of material or equipment wherever possible.
- C. Equipment shall be the product of a manufacturer who has, for a period of not less than five (5) years, been in successful manufacture of the equipment and who has a nationally distributed catalog covering ratings and specifications of said equipment.

2.03 SLEEVES FOR RACEWAYS AND CABLES

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Sleeves for Rectangular Openings: Galvanized sheet steel.
 - 1. Minimum Metal Thickness:
 - a. For sleeve cross-section rectangle perimeter less than 50 inches and no side more than 16 inches, thickness shall be 0.052 inch.
 - b. For sleeve cross-section rectangle perimeter equal to, or more than, 50 inches and 1 or more sides equal to, or more than, 16 inches, thickness shall be 0.138 inch.

2.04 SLEEVE SEALS

- A. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and raceway or cable.
 - 1. Manufacturers:
 - a. Calpico, Inc.
 - b. Advance Products & Systems, Inc.

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- c. Pipeline Seal and Insulator, Inc.
- d. Or, Equal.
- 2. Sealing Elements: EPDM or NBR interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
- 3. Pressure Plates: Stainless steel. Include two for each sealing element.
- 4. Connecting Bolts and Nuts: Stainless steel of length required to secure pressure plates to sealing elements. Include one for each sealing element.

2.05 GROUT

- A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive, non-staining, mixed with water to consistency suitable for application and a 30-minute working time.

2.06 MISCELLANEOUS EQUIPMENT AND MATERIALS

- A. Furnish and install miscellaneous equipment and materials required for the systems described whether or not specifically shown.

PART 3 - EXECUTION

3.01 COMMON REQUIREMENTS FOR ELECTRICAL

- A. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.
- B. Headroom Maintenance: If mounting heights or other location criteria are not indicated, locate components and equipment to provide maximum possible headroom consistent with these requirements.
 - 1. Adequate working space shall be provided around electrical equipment in strict compliance with the Electrical Safety Orders. In general provide six and one-half feet of headroom and thirty-six inches minimum clear work space in front of panelboards and controls for 120/208 volt equipment, and forty two inches for 277/480 volt equipment.
- C. Equipment: Placement shall facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby infrastructure. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.
- D. Right of Way: Give to piping systems with slope requirements.

3.02 SLEEVES FOR ELECTRICAL PENETRATIONS

- A. Electrical penetrations occur when raceways, cables, wireways, penetrate concrete slabs, concrete or masonry walls, or fire-rated floor and wall assemblies.
- B. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.

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- C. Fire-Rated Assemblies: Provide sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with Firestop system used are fabricated during construction of floor or wall.
- D. Cut sleeves to length for mounting flush with both surfaces of walls.
- E. Size pipe sleeves to provide 1/4-inch annular clear space between sleeve and raceway or cable, unless indicated otherwise.
- F. Seal space outside of sleeves with grout for penetrations of concrete and masonry
 - 1. Promptly pack grout solidly between sleeve and wall so no voids remain. Tool exposed surfaces smooth; protect grout while curing.
- G. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint.
- H. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Provide sleeves and seal raceway and cable penetration sleeves with firestop materials.
- I. Above ground, Exterior-Wall Penetrations: Seal penetrations using steel pipe sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch annular clear space between pipe and sleeve and provide mechanical sleeve seals.
- J. Underground, Exterior-Wall Penetrations: Provide cast-iron pipe sleeves. Size sleeves to allow for 1-inch annular clear space between raceway or cable and sleeve and provide mechanical sleeve seals.

3.03 FIRESTOPPING

- A. Apply firestopping to penetrations of fire-rated floor and wall assemblies for electrical infrastructure to restore or maintain fire-resistance rating of assembly.

3.04 FIELD QUALITY CONTROL

- A. Test all wiring and connections for continuity and grounds before any fixtures or equipment are connected and where such tests indicate faulty insulation or other defects, they shall be located, repaired and tested again at the Contractor's expense. Electrical loads shall be balanced at the panelboards and motors shall be checked for correct rotation.
- B. Third party acceptance testing is required as part of this project. Contractor to provide the services of a NETA certified testing contractor to perform testing of equipment identified in the respective specification sections. Submit test reports noting acceptance, test values and a baseline for future test readings.
- C. Notify District's Representative in advance prior to project completion. At such time, arrange an operating test for approval and/or schedule for electrical apparatus testing. Demonstrate equipment to be in conformance with applicable Codes and operate in accordance with Requirements of this Section of the Specifications. Provide all instruments and personnel required for test.

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D. In the absence of manufacturer's torque values refer to Table 1 herein.

Table 1

U.S. Standard
Bolt Torques for Bus Connections

Heat Treated Steel – Cadmium or Zinc Plated

GRADE	SAE 1 & 2	SAE 5	SAE 6	SAE 8
Minimum Tensile (P.S.I.)	64K	105K	133K	150K
Bolt Diameter	Torque (Foot Pounds)			
1/4	4.0	5.6	8.0	8.4
5/16	7.2	11.2	15.2	17.6
3/8	12.0	20.0	27.2	29.6
7/16	19.2	32.0	44.0	48.0
1/2	29.6	48.0	68.0	73.6
9/16	42.4	70.4	96.0	105.6
5/8	59.2	96.0	133.6	144.0
3/4	96.0	160.0	224.0	236.8
7/8	152.0	241.6	352.0	378.4
1.	225.6	372.8	528.0	571.2

3.05 SALVAGE MATERIAL AND EQUIPMENT

- A. Where remodel or demolition work is to be accomplished under this Contract, all removed materials and equipment, which in the opinion of the Owner is salvable, shall remain the property of the Owner. Such salvaged materials and equipment shall be delivered to Owner on premises as directed and shall be neatly piled or stored and protected from damage.
- B. All materials considered as scrap and not salvageable shall be removed from premises and disposed of by Contractor.

3.06 DEMOLITION

- A. When devices are removed that are located midway in a circuit maintain continuity of the circuit and accessibility of any junction boxes.
- B. When the scope of work requires the removal of electrical equipment all associated conduit, conductors, boxes, hangers, anchors, etc. shall be removed in their entirety. All openings shall be patched and sealed to match the adjacent construction and finish including the replacement of floor tiles.
- C. Damaged floor and ceiling tiles shall be replaced.

END OF SECTION

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SECTION 26 05 19 – LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Building wires and cables rated 600 V and less.
 - 2. Connectors, splices, and terminations rated 600 V and less.
 - 3. Sleeves and sleeve seals for cables.

1.03 DEFINITIONS

- A. EPDM: Ethylene-propylene-diene terpolymer rubber.
- B. NBR: Acrylonitrile-butadiene rubber.

1.04 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Qualification Data: For testing agency.
- C. Field quality-control test reports.

1.05 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in CEC, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with CEC, California Electrical Code.

PART 2 - PRODUCTS

2.01 CONDUCTORS AND CABLES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Building Wire:
 - a. General Cable Corporation.
 - b. Senator Wire & Cable Company.
 - c. Southwire Company.
 - d. Cerro Wire, a Marmon/Berkshire Hathaway Company.
 - e. United Wire and Cable
 - 2. Wiring connectors and terminations:

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- a. 3M Company.
- b. Ideal.
- c. Blackburn-Holub.
- d. Burndy.
- e. Thomas & Betts Corp.
- f. Beau Barrier.

- B. Substitutions: Under provisions of Section 26 05 00: Common Work Results for Electrical..

2.02 BUILDING WIRE

A. Conductor material:

- 1. Provide annealed copper for all wire, conductor, and cable, unless otherwise indicated.
- 2. All building wire shall be stranded, unless otherwise indicated.
- 3. Comply with NEMA WC 70. Aluminum shall not be used.
- 4. Stranded Copper, #10 AWG minimum, except for control circuits which may be #14 AWG minimum. Signal and control circuits other than mechanical shall be as indicated on Drawings or as required by equipment manufacturers.
- 5. Conductors in sizes up through #10 AWG shall have solid color finish as listed above. #8 AWG and larger shall be color coded by application of phase tape for minimum of 6" length on conductor. Coding shall occur at all terminations, pull boxes and splices.
- 6. Color-coding shall be continuous and consistent throughout the work. Do not use different colors for switch legs, fixture taps, travelers, etc.
- 7. Phasing: Terminals in panelboards, motor control centers, switchboards and other equipment shall be phased A, B, C, reading left to right or top to bottom looking into the front of the equipment.

B. Conductor Insulation: Comply with UL 83 for Types THW, THHN/THWN, THWN-2, and XHHW-2

- 1. All insulated wire, conductor and cable shall be 600volt rated, unless otherwise noted on the Drawings.
- 2. Thermoplastic-insulated building wire.
- 3. Rubber-insulated building wire.
- 4. Copper feeders and branch circuits larger than #6 AWG: Type THW, XHHW or dual rated THHN/THWN.
- 5. Copper feeders and branch circuits #6 AWG and smaller: Type TW, THW, XHHW or dual rated THHN/THWN.
- 6. Feeders and branch circuits for direct-current (DC) in wet locations: Type XHHW-2.
- 7. Conductors for variable frequency drives (VFD): Type XHHW-2.
- 8. Service Entrance: Type RHW or THWN.
- 9. Control Circuits: Type THW or dual rated THHN/THWN.
- 10. Identify system conductors as to voltage and phase connections by means of color-impregnated insulation.
- 11. XHHW-2 conductors shall be used for feeders from generator to service switchboard.

C. Conductor Temperature Rating: 90°C.

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2.03 CONNECTORS AND SPLICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. AFC Cable Systems, Inc.
 - 2. Hubbell Power Systems, Inc.
 - 3. O-Z/Gedney; EGS Electrical Group LLC.
 - 4. 3M; Electrical Products Division.
 - 5. Cooper Crouse-Hinds.

- B. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

- C. Bolted pressure connectors: Provide wide range-taking connectors with cast bronze compression bolts, designed for parallel taps, tees, crosses or end-to-end connections.

- D. Electrical spring wire connectors:
 - 1. Provide multi-part construction incorporating a non-restricted, zinc coated square cross-section steel spring enclosed in a steel sheet with an outer jacket of plastic and insulating skirt.
 - 2. Self-striping pigtail and tap U-contact connectors shall not be used.

- E. Compression type terminating lugs:
 - 1. Provide tin-plated copper high-compression type lugs for installation with hand or hydraulically operated circumference-crimping tools and dies as stipulated by the lug Manufacturer or as indicated on Drawings. Notch or single point type crimping is NOT acceptable.
 - 2. Two-hole, long barrel lugs shall be provided for size #4/0 and larger wire where terminated to bus bars. Use minimum of three crimps per lug, on sizes where possible.

- F. Splicing and insulating tape: Provide black, ultraviolet proof, self-extinguishing, 7-mil thick vinyl general purpose electrical tape with a dielectric strength of 10,000volts suitable for temperatures from minus 18-degrees C to 105-degrees C.

- G. Insulating putty:
 - 1. Provide pads or rolls of non-corrosive, self-fusing, one-eighth inch thick rubber putty with PVC backing sheet. Scotch vinyl mastic pads and roll or equal.
 - 2. Use putty suitable for temperatures from minus 17.8-degrees C to 37.8-degrees C with a dielectric strength of 570volts/mil minimum.

- H. Insulating resin:
 - 1. Provide two-part liquid epoxy resin with resin and catalyst in pre-measured, sealed mixing pouch. Scotchcast 4 or equal for wet or underground vaults, boxes, etc. splices or terminations.
 - 2. Use resin with a set up time of approximately 30-minutes at 21.1-degrees C and with thermal and dielectric properties equal to the insulating properties of the cables immersed in the resin.

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- I. Terminal strips:
 - 1. Provide box type terminal strips in the required quantity plus 25% spare. Install in continuous rows in terminal cabinets.
 - 2. Use the box type terminal strips with barrier open backs and with ampere ratings as required.
 - 3. Identify all terminals with numbering sequence being used for a system.

- J. Crimp type connectors:
 - 1. Provide insulated fork or ring crimp terminals with tinned electrolytic copper-brazed barrel with funnel wire entry and insulation support
 - 2. Fasten crimp type connectors or terminals using a crimping tool recommended by the connector Manufacturer.
 - 3. Provide insulated overlap splices with tinned seamless electrolytic copper barrel with funnel wire entry and insulation support.
 - 4. Provide insulated butt splices with tinned seamless electrolytic copper barrel with center stop, funnel wire entry and insulation support.

- K. Cable ties: Provide harnessing and point-to-point wire bundling with nylon cable ties. All cable ties shall be installed using tool supplied by Manufacturer of ties.

- L. Wire lubricating compound:
 - 1. UL listed for the wire insulation and conduit type and shall not harden or become adhesive.
 - 2. Shall not be used on wire for isolated type electrical power systems.

- M. Bolt termination hardware:
 - 1. Bolts shall be plated, medium carbon steel heat-treated, quenched and tempered equal to ASTM A-325 or SAE grade 5; or silicon bronze alloy ASTM B-9954 Type B.
 - 2. Nuts shall be heavy semi-finished hexagon, conforming to ANSI B18.2.2, threads to be unified coarse series (UNC), class 2B steel or silicon bronze alloy.
 - 3. Flat washers shall be steel or silicon bronze, Type A plain standard wide series, conforming to ANSI B27.2. SAE or narrow series shall not be used.
 - 4. Belleville conical spring washers shall be hardened steel, cadmium plated or silicon bronze.
 - 5. Each bolt connecting lug(s) to a terminal or bus shall not carry current exceeding the following values:
 - a. 1/4" bolt: 125amps
 - b. 5/16" bolt: 175amps
 - c. 3/8" bolt: 225amps
 - d. 1/2" bolt: 300amps
 - e. 5/8" bolt: 375amps
 - f. 3/4" bolt: 450amps

2.04 LOW VOLTAGE CONDUCTORS AND CABLES

- A. Power Wiring to Supply Side of Class 2 Power Source: Not smaller than No. 12 AWG, complying with Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

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- D. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- E. Use pulling means including fish tape, cable, rope, and basket-weave wire/cable grips that will not damage cables or raceway.
 - 1. Wire Pulling Lubricant: Minerallac "Pull-In" compound, Y- ER-EAS wire pulling lubricant, Poly-water, or other UL approved lubricant. Flax-soap is not approved.

3.04 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.
- B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.
- C. Splices:
 - 1. For conductors #10 and smaller, pre-insulated type connectors, 3M Scotchloks, T & B Piggys or equal, nylon self-insulated type.
 - 2. For conductors #8 and larger use compression type connector, Burndy type YS long barrel, requiring the use of a 360 degree circumference compression type tool, then insulated with Scotchtape No. 88 or equal.
 - a. Use Scotchfill or equal around large or irregular shape splices for insulation build-up and Scotchtape No. 88.
 - b. Wire splicing devices shall be sized according to manufacturer's recommendations.
 - 3. Factory insulated mechanical connectors manufactured by Polaris, ILSCO, etc., are not approved.
 - 4. Push in style connectors, i.e. WAGO, are not approved.
 - 5. Self-stripping pigtail and tap-U contact connectors shall not be used.
- D. Splices in underground pull boxes or in other areas subject to moisture shall be provided with cast resin kits and cadweld or compression type connections, Burndy type YS long barrel. Use Scotchlok sealing packs for wire size to #10 and Scotchcast kits for larger splices as recommended by 3M Company. All splices to be prepared as hereinbefore specified before resin kits are applied. Wire splicing devices shall be sized according to manufacturer's recommendations.

3.05 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.
 - 1. Submit test reports for approval.
- B. Tests and Inspections:
 - 1. After installing conductors and cables and before electrical circuitry has been energized, test conductors for compliance with requirements.
 - 2. Grounding test shall be by Fall-of-Potential method by an independent testing agency.

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SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes grounding systems and equipment.

1.03 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Qualification Data: For qualified testing agency and testing agency's field supervisor.
- C. Field quality-control reports.
- D. Operation and Maintenance Data: For grounding to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
 - 1. Instructions for periodic testing and inspection of grounding features at test wells ground rings, grounding connections for separately derived systems based on NETA MTS.
 - a. Tests shall determine if ground-resistance or impedance values remain within specified maximums, and instructions shall recommend corrective action if values do not.
 - b. Include recommended testing intervals.

1.04 QUALITY ASSURANCE

- A. Contractor to perform testing per NETA standards.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in CEC, by a qualified testing agency, and marked for intended location and application.
- C. Comply with UL 467 for grounding and bonding materials and equipment.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Products furnished by the following Manufacturers shall be acceptable if in compliance with all features specified herein and indicated on the Drawings.
 - 1. Ground Rods:
 - a. Weaver.
 - b. Erico "Cadweld" Products, Inc.

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- 2. Ground Wells:
 - a. Christy Concrete Products, Inc.
 - b. Forni Corp.
- 3. Ground Bushings, Connectors, Jumpers and Bus:
 - a. O-Z/Gedney.
 - b. Thomas & Betts Corp.
 - c. Burndy.

- B. Substitutions: Under provisions of Section 26 05 00: Common Work Results for Electrical.

2.02 CONDUCTORS

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
 - 1. Solid Conductors: ASTM B 3.
 - 2. Tinned Conductors: ASTM B 33.

2.03 CONNECTORS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction for applications in which used and for specific types, sizes, and combinations of conductors and other items connected.
- B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, pressure type with at least two bolts.
 - 1. Pipe Connectors: Clamp type, sized for pipe.
- C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.04 GROUNDING ELECTRODES

- A. Ground Rods: Copper-clad steel; 3/4 inch diameter by 10 feet (19 mm by 3 m).
- B. Chemical-Enhanced Grounding Electrodes: Copper tube, straight or L-shaped, charged with nonhazardous electrolytic chemical salts.
 - 1. Termination: Factory-attached No. 4/0 AWG bare conductor at least 48 inches (1200 mm) long.
 - 2. Backfill Material: Electrode manufacturer's recommended material.
- C. UFER Ground; Bare copper conductor 25-foot minimum length and gauge size per 12.5 percent of the service conductor size.

PART 3 - EXECUTION

3.01 APPLICATIONS

- A. Conductors: Install stranded conductors unless otherwise indicated.

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- B. Underground Grounding Conductors: Install bare tinned-copper conductor, No. [2/0] AWG minimum.
 - 1. Bury at least 30 inches below grade.
 - 2. Duct-Bank Grounding Conductor: Bury 12 inches (300 mm) above duct bank when indicated as part of duct-bank installation.
- C. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, and down to specified height above floor; connect to horizontal bus.
- D. Conductor Terminations and Connections:
 - 1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
 - 2. Underground Connections: Welded connectors.
 - 3. Connections to Ground Rods at Test Wells: Welded connectors.
 - 4. Connections to Structural Steel: Welded connectors.

3.02 GROUNDING UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS

- A. Comply with IEEE C2 grounding requirements.
- B. Grounding Manholes and Handholes: Install a driven ground rod through manhole or handhole floor, close to wall, and set rod depth so 4 inches (100 mm) will extend above finished floor. If necessary, install ground rod before manhole is placed and provide No. 1/0 AWG bare, tinned-copper conductor from ground rod into manhole through a waterproof sleeve in manhole wall. Protect ground rods passing through concrete floor with a double wrapping of pressure-sensitive insulating tape or heat-shrunk insulating sleeve from 2 inches (50 mm) above to 6 inches (150 mm) below concrete. Seal floor opening with waterproof, nonshrink grout.
- C. Grounding Connections to Manhole Components: Bond exposed-metal parts such as inserts, cable racks, pulling irons, ladders, and cable shields within each manhole or handhole, to ground rod or grounding conductor. Make connections with No. 4 AWG minimum, stranded, hard-drawn copper bonding conductor. Train conductors level or plumb around corners and fasten to manhole walls. Connect to cable armor and cable shields according to written instructions by manufacturer of splicing and termination kits.

3.03 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with all feeders and branch circuits.

3.04 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
- B. Ground Rods: Drive rods until tops are 2 inches (50 mm) below finished floor or final grade unless otherwise indicated.
 - 1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating if any.

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- C. Test Wells: Ground rod driven through drilled hole in bottom of handhole. Handholes are specified in Division 26 Section "Underground Ducts and Raceways for Electrical Systems," and shall be at least 12 inches (300 mm) deep, with cover.
1. Test Wells: Install at least one test well for each service unless otherwise indicated. Install at the ground rod electrically closest to service entrance. Set top of test well flush with finished grade or floor.
- D. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance except where routed through short lengths of conduit.
1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install bonding so vibration is not transmitted to rigidly mounted equipment.
 3. Use exothermic-welded connectors for outdoor locations; if a disconnect-type connection is required, use a bolted clamp.
- E. Grounding and Bonding for Piping:
1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes; use a bolted clamp connector or bolt a lug-type connector to a pipe flange by using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
 2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
 3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.
- F. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.
- G. Ufer Ground (Concrete-Encased Grounding Electrode): Fabricate according to CEC; use a minimum of 25 feet of bare copper conductor not smaller than 12.5 percent of the service conductor size (sum total per a single phase) AWG. In no case shall the conductor size be less than #4/0 AWG.
1. If concrete foundation is less than 20 feet (6 m) long, coil excess conductor within base of foundation.
 2. Bond grounding conductor to reinforcing steel in at least four locations and to anchor bolts. Extend grounding conductor below grade and connect to building's grounding grid or to grounding electrode external to concrete.
 3. 2-inch minimum encasement in concrete.

3.05 LABELING

- A. Comply with requirements in Division 26 Section "Identification" Article for instruction signs. The label or its text shall be green.
- B. Install labels at the telecommunications bonding conductor and grounding equalizer and at the grounding electrode conductor where exposed.

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1. Label Text: "If this connector or cable is loose or if it must be removed for any reason, notify the Owner's Representative."

3.06 FIELD QUALITY CONTROL

- A. Contractor to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Tests and Inspections:
 1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.
 2. Inspect physical and mechanical condition. Verify tightness of accessible, bolted, electrical connections with a calibrated torque wrench according to manufacturer's written instructions.
 3. Test completed grounding system at each location where a maximum ground-resistance level is specified, at service disconnect enclosure grounding terminal, at ground test wells. Make tests at ground rods before any conductors are connected.
 - a. Measure ground resistance no fewer than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.
 - b. Perform tests by fall-of-potential method according to IEEE 81.
- C. Grounding system will be considered defective if it does not pass tests and inspections.
 1. Prepare test and inspection reports.
- D. Report measured ground resistances that exceed the following values:
 1. Power and Lighting Equipment or System with Capacity of 500 kVA and Less: 10 ohms.
 2. Power and Lighting Equipment or System with Capacity of 500 to 1000 kVA: 5 ohms.
 3. Power and Lighting Equipment or System with Capacity More Than 1000 kVA: 3 ohms.
 4. Power Distribution Units or Panelboards Serving Electronic Equipment: 3 ohm(s).
 5. Substations and Pad-Mounted Equipment: [5] <Insert value> ohms.
 6. Manhole Grounds: 10 ohms.
- E. Excessive Ground Resistance: If resistance to ground exceeds specified values, notify Engineer promptly and include recommendations to reduce ground resistance.

END OF SECTION

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SECTION 26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Hangers and supports for electrical equipment and systems.

1.03 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. IMC: Intermediate metal conduit.
- C. RMC: Rigid metal conduit.

1.04 PERFORMANCE REQUIREMENTS

- A. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
- B. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this Project. Minimum structural safety factor shall meet the following site specific seismic design criteria:
 - 1. Seismic restraints are the responsibility of the contractor.
- C. Design of seismic bracing shall meet requirements of CBC Chapter 16A.

1.05 SUBMITTALS

- A. Product Data: For the following:
 - 1. Steel slotted support systems.
 - 2. Nonmetallic slotted support systems.
 - 3. Anchors.
 - 4. Hangers.
- B. Shop Drawings: Show fabrication and installation details and include calculations for the following:
 - 1. Steel slotted channel systems. Include Product Data for components.
 - 2. Nonmetallic slotted channel systems. Include Product Data for components.
 - 3. Equipment supports.

1.06 QUALITY ASSURANCE

- A. Comply with CEC.

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PART 2 - PRODUCTS

2.01 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

- A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Cooper B-Line, Inc.; a division of Eaton.
 - b. ERICO International Corporation.
 - c. Thomas & Betts Corporation.
 - d. Unistrut; Tyco International, Ltd.
 - 2. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
 - 3. Channel Dimensions: Selected for applicable load criteria.
 - a. 12 Gage minimum.
- B. Fittings and Accessories: Products of channel and angle manufacturer and designed for use with those items.
 - 1. Provide end caps on all exposed strut to conceal sharp edges.
- C. Rated Strength: Selected to suit applicable load criteria.
- D. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.
- E. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hilti Inc.
 - b. Or, Approved Equal
 - 2. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
 - 3. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.

2.02 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

- A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.

PART 3 - EXECUTION

3.01 SUPPORT INSTALLATION

- A. Provide end caps for all strut.
- B. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading

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limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb.

- C. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
1. To Wood: Fasten with through bolts unless noted otherwise in the electrical or structural details.
 2. To New Concrete: Bolt to concrete inserts unless noted otherwise in the electrical or structural details.
 3. To Masonry: Approved expansion anchor fasteners on solid masonry units.
 4. To Concrete: Expansion anchor fasteners unless noted otherwise in the electrical or structural details.
 5. To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.
 6. To Light Steel: Sheet metal screws.
 7. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate by means that meet seismic-restraint strength and anchorage requirements. See mounting details in the electrical and structural drawing set.
- D. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.
1. Ferro resonant scan all concrete walls and floors prior to drilling.
- E. Note: Structural details in the construction drawing set and structural specifications take precedence.

3.02 TOUCHUP: CLEAN FIELD WELDS AND ABRADED AREAS OF SHOP PAINT. PAINT PAINTING

- A. Exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils.
- B. Touchup: Comply with requirements in Division 09 painting Sections for cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint on miscellaneous metal.

END OF SECTION

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SECTION 26 05 33.13 - RACEWAYS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes raceways and fittings for electrical wiring.

1.03 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. FMC: Flexible metal conduit.
- C. LFMC: Liquidtight flexible metal conduit.
- D. RGS: Rigid Galvanized Steel Conduit.
- E. CEC: California Electrical Code.

1.04 SUBMITTALS

- A. Product Data: For wireways and fittings.
- B. Shop Drawings: For the following raceway components. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Proposed motion sensor and LED dimmable driver interconnection schematic.
- C. Source quality-control test reports.

1.05 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in CEC, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Products furnished by the following Manufacturers shall be acceptable if in compliance with all features specified herein and indicated on the Drawings.
 - 1. Metal conduit:
 - a. Allied Tube and Conduit Co.
 - b. Triangle PWC, Inc.

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- c. Western Tube and Conduit Corp.
- d. Spring City Electrical Manufacturing Co.
- e. Alfex Corp.
- f. American Flexible Metal Conduit Co.
- g. Anaconda.

2. Fittings:

- h. Appleton Electric Co.
- i. OZ/Gedney.
- j. Thomas & Betts Corp.
- k. Spring City Electrical Manufacturing Co.

- B. Substitutions: Under provisions of Section 26 05 00: Common Work Results for Electrical.

2.02 METAL CONDUIT AND TUBING

A. EMT: ANSI C80.3.

- 1. Shall be galvanized steel, thin wall. Maximum trade size to be used shall be 4".
- 2. Conduit: Shall be formed of cold rolled strip steel, electrical resistance welded continuously along the longitudinal seam and hot dip galvanized after fabrication. Conduit shall conform to ANSI C80.3 Specifications and shall meet UL requirements.
- 3. Set screw type couplings: Hot dip galvanized, steel, UL listed concrete tight. Use set screw type couplings with four setscrews each of conduit sizes over 2 inches. Setscrews shall be of case-hardened steel with hex-head and cup point to firmly seat in wall of conduit for positive grounding.
- 4. Set screw type connectors: Hot dip galvanized, steel, UL listed concrete tight with male hub and insulated plastic throat, 150-degree C temperature rated. Setscrew shall be same as for couplings.
- 5. Raintight couplings: Hot dip galvanized, steel; UL listed raintight and concrete tight, using gland and ring compression type construction.
- 6. Raintight connectors: Hot dip galvanized, steel, UL listed raintight and concrete tight, with insulated throat, using gland and ring compression type construction.

B. FMC: Zinc-coated steel.

- 1. Conduit: Shall be fabricated in continuous lengths from galvanized steel strip, spirally wound and formed to provide an interlocking design and conforming to UL 1.
- 2. Fittings: Connectors shall be of the single screw clamp variety with steel or cast malleable iron bodies and threaded male hubs with insulated throats. Exception: Pressure cast screw-in connectors shall be acceptable for luminaire connection in suspended ceilings and cut-in outlet boxes within existing furred walls.LFMC: Flexible steel conduit with PVC jacket.

C. LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC)

- 1. Conduit: Shall be fabricated in continuous lengths from galvanized steel strips, interlocking spirally wound, covered with extruded liquidtight jacket of polyvinyl chloride (PVC) and conforming to UL 360. Provide conduit with a continuous copper-bonding conductor wound spirally between the convolutions.

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2. Fittings: Connector body and gland nut shall be of cadmium plated steel or cast malleable iron, with tapered, male, threaded hub; insulated throat and neoprene "O" ring gasket recessed into the face of the stop nut. The clamping gland shall be of molded nylon with an integral brass push-in ferrule.
- D. RGS (RMC) Conduit: ANSI C80.1 and UL 6.
1. Full weight, mild steel pipe, heavy wall, threaded with threaded fittings, zinc coated on both inside and outside by a hot dipping or sherardizing process.
 2. Standard threaded couplings, locknuts, bushings, and elbows: Only materials of steel or malleable iron are acceptable. Locknuts shall be bonding type with sharp edges for digging into the metal wall of an enclosure; provide two locknuts at each box or can, inside and outside.
 3. Three-piece couplings: Hot dip galvanized, cast malleable iron.
 4. Insulating bushings: Threaded polypropylene or thermosetting phenolic rated 150-degree C minimum.
 5. Insulated grounding bushings: Threaded cast malleable iron body with insulated throat and steel "lay-in" ground lug with compression screw.
 6. Insulated metallic bushings: Threaded cast malleable iron body with plastic insulated throat rated 150-degrees C.
 7. All fittings and connectors shall be threaded.
- E. PVC INSULATED GALVANIZED RIGID STEEL CONDUIT (PVC GRS/RMC)
1. Conduit: Full weight, threaded, hot-dip galvanized steel, conforming to ANSI C80.1 and NEMA RN-1 with nominal 20 or 40 mil thermoplastic vinyl coating, heat fused and bonded to the exterior of the conduit.
 2. Fittings: Conduit couplings and connectors shall be as specified for galvanized rigid steel conduit and shall be factory PVC coated with an insulating jacket equivalent to that of the coated material.
- F. INTERMEDIATE METAL CONDUIT (IMC)
1. Conduit: Hot dip galvanized steel meeting the requirements of CEC Article 345 and conforming to ANSI C80.6 and UL 1242.
 2. Fittings: Conduit couplings, connector and bushing shall be as specified for galvanized rigid steel conduit. Integral retractable type IMC couplings are also acceptable.
- G. PVC: PLASTIC CONDUIT [PVC (Polyvinyl Chloride), Schedule 40, Heavy Wall, UL Listed and Labeled for Direct Burial, 90 Degrees Centigrade]
1. Shall be classified for direct burial,
 2. Standard PVC manufactured elbows shall be used. Where bends and offsets other than the standard fittings must be used, they shall be made with the use of standard manufactured bending equipment. Burn marks on PVC conduit will be considered cause for rejection of installation.
- H. MISCELLANEOUS CONDUIT FITTINGS AND PRODUCTS
1. Watertight conduit entrance seals: Steel or cast malleable iron bodies and pressure clamps with PVC sleeve, neoprene sealing grommets and PVC coated steel pressure rings. Fittings shall be supplied with neoprene sealing rings between the body and PVC sleeve.

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2. Watertight cable sealing bushings: One piece, compression molded sealing ring with PVC coated steel pressure disks, stainless steel sealing screws and zinc plated cast malleable iron locking collar.
 3. Expansion fittings: Multi-piece unit comprised of a hot dip galvanized malleable iron or steel body and outside pressure bussing designed to allow a maximum of 4" conduit movement (2" in either direction). Furnish with external braid tinned copper bonding jumper. Unit shall be UL listed for wet or dry locations.
 4. Expansion/deflection couplings: Multi-piece unit comprised of a neoprene sleeve with internal flexible tinned copper braid attached to bronze end couplings with stainless steel bands. Coupling shall accommodate 0.75-inch deflection, expansion or contraction in any direction and allow 30-degree angular deflections. Flexible, corrosion-resistant, watertight, moisture and heat resistant molded rubber jacket and stainless-steel jacket clamps. Unit shall comply with UL467 and UL514. Manufacturer shall be OZ/Gedney Type DX, Steel City Type EDF or equal.
 5. Fire rated penetration seals:
 - a. UL building materials directory classified.
 - b. Conduit penetrations in fire rated separation shall be sealed with a UL classified fill, void or cavity material.
 - c. The fire rated sealant material shall be the product best suited for each type of penetration and may be a caulk, putty, composite sheet, or wrap/strip.
 6. Standard products not herein specified:
 - a. Provide listing of standard electrical conduit hardware and fittings not herein specified for approval prior to use or installation, i.e. locknuts, bushings, etc.
 - b. Listing shall include Manufacturers name, part numbers and a written description of the item indicating type of material and construction.
 - c. Miscellaneous components shall be equal in quality, material and construction to similar items herein specified.
 - 1) **Hazardous area fittings: UL listed for the application.**
- I. Joint Compound for Rigid Steel Conduit: Listed for use in cable connector assemblies, and compounded for use to lubricate and protect threaded raceway joints from weather, corrosion, and enhance their conductivity.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Contractor shall thoroughly examine Project site conditions for acceptance of conduit system installation to verify conformance with Manufacturer and Specification tolerances. Do not commence with installation until all conditions are made satisfactory.

3.02 RACEWAY APPLICATION

- A. Galvanized rigid steel conduit (GRS) can be used in the following applications:
1. For feeders and branch circuits located indoors, concealed or exposed above suspended ceilings, in damp/wet locations, in crawl spaces, in attics, chases, furred spaces, equipment rooms, loading docks or in hazardous locations in accordance with CEC and local Codes.
 2. For use where conduit is subject to physical damage.
 3. For feeders and branch circuits installed exposed on the roof.

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- B. PVC insulated galvanized rigid steel conduit can be used in the following applications:
 - 1. Use 40-mil coating for feeders and branch circuits in damp or wet locations.
 - 2. Use 40-mil for feeders and branch circuits concealed in concrete walls or slabs in contact with earth.
 - 3. Use 40-mil for runs beneath floor slabs on grade.
 - 4. Use 40-mil for all below grade penetrations through floor slabs on grade or exterior walls.

- C. Intermediate metal conduit (IMC): Can be used for the same application as galvanized rigid steel conduit as specified herein, except for hazardous locations prohibited by CEC or Local Codes.

- D. Electrical metallic tubing (EMT): Can be used exposed or concealed for interior electrical feeders 4" and smaller, interior power and lighting branch circuits and low tension distribution system where run above suspended ceilings, in concrete slabs and walls not in contact with earth; in stud walls, furred spaces and crawl spaces. EMT shall not be installed exposed below 8 feet above the finish floor except within electrical, communication or signal rooms or closets (subject to physical damage).

- E. Flexible metallic conduit (FMC): Can be used only in dry locations for connections from an adjacent outlet box or conduit to all motors, transformers, vibrating equipment or machinery, controllers, solenoid valves, float and flow switches or similar devices and to luminaires installed in suspended ceilings.

- F. Liquidtight flexible metallic conduit (LFMC): Can be used in wet or damp locations for connections from adjacent outlet box or conduit to all motors, transformers, vibrating equipment or machinery, controllers, solenoid valves, float and flow switches or similar devices. These areas are typically food preparation and dishwashing areas, sump wells, loading docks, pump rooms, exterior areas, etc.

- G. Minimum Raceway Size: 3/4-inch trade size.

- H. Raceway Fittings: Compatible with raceways and suitable for use and location.
 - 1. Galvanized Rigid Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.
 - a. Apply thread sealant to all joints except in permanently dry locations. Where installed below floor slab and in contact with fill material, or underground and in contact with earth or encased in concrete shall be double wrapped with Scotchwrap #50, Johns-Manville VID-10 or equal at double 1/2 lap (four net layers). Follow any specific instructions or methods shown on Drawings.
 - b. Termination of conduits, wiring gutters or boxes shall be fitted with steel locknut and insulated metallic bushing or with two steel locknuts and insulating bushings. When grounding bushings are required, use insulated grounding bushing. Where conduit connections are exposed to weather or excessive moisture they shall be fitted with insulated watertight sealing hub i.e. Myers Hub.
 - c. Cap underground conduit stubs.
 - d. All cut ends of conduit shall be reamed to remove rough edges where conduit is threaded in the field; an electrical conduit thread cutting die with a taper shall be used.

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2. LFMC: Use malleable liquidtight insulated fittings with full-size cast steel UL locknut, threaded locking mechanism with insulated throat.
 - a. In wet and corrosive locations, outside, or motor connections, shall be liquid-tight. May be used to connect recessed lighting fixtures or mechanical controls and equipment. Length shall be kept to a minimum but to allow for movement or removal of equipment. Leave slack in flex connection to maintain flexibility of conduit, minimum of 3' of flex & one (1) 90° bend.
3. PVC: May be used underground with sand fill evenly compacted on all sides or in concrete floor, or concrete walls, limited to structural requirements.
 - a. All portions shall be concealed below grade or within concrete slab. Continuation of run above grade or floor slab shall be with rigid steel, intermediate metal grade or EMT in furred walls
 - b. Stubup at generator pad and portable tap box may be PVC SCH 40 terminated with bell ends.
 - c. Conduit entries into underground pullboxes shall be terminated with bell ends.
 - d. Minimum 24" cover over conduit. Refer to additional details on drawings.
 - e. A copper bonding conductor shall be pulled in each raceway and bonded to equipment at each end with code lugs.
 - f. Duct separation shall be provided using plastic conduit spacers specifically designed for the purpose. Refer to duct bank details on drawings.
 - g. All joints shall be solvent cemented in accordance with manufacturer's recommendations. All underground stubs shall be capped.

3.03 PREPARATION

- A. Locations of conduit runs shall be planned in advance of the installation and coordinated with ductwork, plumbing, ceiling and wall construction in the same areas and shall not unnecessarily cross other conduits or pipe, nor prevent removal of ceiling tiles or panels, nor block access to mechanical or electrical equipment.
- B. Where practical, install conduits in groups in parallel vertical or horizontal runs and at elevations that avoid unnecessary offsets.
- C. All conduits shall be run parallel or at right angles to the centerlines of columns and beams, whether routed exposed, concealed above suspended ceiling or in concrete slabs.
- D. Conduits shall not be placed closer than 12-inches to a flue, parallel hot water, steam line or other heat producing source or three inches from such lines when crossing perpendicular to the runs.
- E. Exposed conduit installation shall not encroach into the ceiling height headroom of walkways or doorways. Where possible, install horizontal raceway runs above water and below steam piping.
- F. In long runs of conduit, provide sufficient pull boxes inside buildings to facilitate pulling wires and cables, with spacing not to exceed 150-feet. Support pull boxes from structure independent of conduit supports. These pull boxes are not indicated on the Drawings.

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- G. Provide all reasonably inferred standard conduits fitting and products required to complete conduit installation to meet the intended application whether noted, indicated, or specified in the Contract Documents or not.

3.04 INSTALLATION

- A. Install conduit in accordance with Manufacturer's written instructions, as indicated on Drawings and as specified herein.
- B. Minimum Conduit Size: Unless otherwise noted herein or on Drawings, minimum conduit size shall be 3/4" for interior applications and 1" for exterior and underground applications.
- C. All conduit sizes indicated on the Drawings are sized for copper conductors with THHN/THWN insulation. If conductor type or size is changed the Contractor shall be responsible for resizing conduits upward to meet Code.
- D. In general, all conduit work shall be concealed where possible. Exceptions shall be electrical, communication and mechanical rooms, exposed ceiling areas, and parking garages.
- E. Conduit connections to motors and surface cabinets shall be concealed, except for electrical, communication and mechanical rooms, or unless exposed Work is clearly called for on the Drawings.
- F. Install conduits in complete runs before pulling in cables or wires.
- G. Install conduit free from dented, bruises or deformations. Remove and replace any damaged conduits with new undamaged material.
- H. Conduits shall be well protected and tightly covered during construction using metallic bushings and bushing "pennies" to seal open ends.
- I. In making joints in rigid steel conduit, ream conduit smooth after cutting and threading. Coat all field-threaded joints with UL approved conductive type compound to ensure low resistance ground continuity through conduit and to prevent seizing and corrosion.
- J. Clean any conduit in which moisture or any foreign matter has collected before pulling in conductors. Paint all field-threaded joints to prevent corrosion.
- K. In all empty conduits or ducts, install a "True Tape" conduit measuring tape line to provide overall conduit length for determining length of cables/conductors for future use.
- L. Conduit systems shall be mechanically and electrically continuous throughout. Install code size, insulated, copper, green-grounding conductors in all conduit runs for branch circuits and feeders. This conductor is not indicated on the Drawings. Refer to Section 26 05 26: Grounding and Bonding.
- M. Metallic conduit shall not be in contact with other dissimilar metal pipes (i.e. plumbing).

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- N. Make bends with standard conduit bending hand tool or machines. The use of any item not specifically designed for the bending of electrical conduit is strictly prohibited.
- O. A run of conduit between terminations at wire pulling points shall not contain more than the equivalent of four quarter bends (360-degrees, total).

3.05 PENETRATIONS

- A. Locate penetrations and holes in advance where they are proposed in the structural sections such as footings, beams, wall, etc. Penetrations are acceptable only when the following occurs:
 - 1. Where indicated on the Structural Drawings.
 - 2. As approved by the Structural Engineer prior to construction and after submittal of Drawing showing location, size, and position of each penetration.
- B. Cutting or holes:
 - 1. Cut holes through concrete, masonry block or brick floors and floors of structure with a diamond core drill or concrete saw. Pneumatic hammer, impact electric, hand or manual hammer type drills are not allowed, except where permitted by the Structural Engineer as required by limited working space. Obtain the approval of the Structural Engineer prior to drilling through structural sections.
 - 2. Provide sleeves or "can outs" for cast-in-place concrete floors and walls. Following conduit installation, seal all penetrations using non-iron bearing, chloride free, non-shrinking, dry-pack grouting compounds; or fire rated penetration-sealing materials.
 - 3. Cut holes for conduit penetrations through non-concrete and non-masonry walls, partitions, or floors with a hole saw. The hole shall be only as large as required to accommodate the size of the conduit.
 - 4. Provide single piece escutcheon plates around all exposed conduit penetrations in public places.
- C. Sealing:
 - 1. Non-rated penetrations: Pack opening around conduits with non-flammable insulating material and seal with gypsum wallboard taping compound.
 - 2. Fire stop: Where conduits, wireways and other electrical raceways pass through fire rated partitions, walls, smoke partitions or floor; install a UL classified fire stop material to provide an effective barrier against the spread of fire, smoke, and gases. Completely fill and seal clearances between raceways and openings with the fire stop material.
- D. Waterproofing: At floor, exterior wall, and roof conduit penetrations, completely seal clearances around the conduit and make watertight as specified in Division 07: Sealants and Caulking.
 - 1. Install specified watertight conduit entrance seals at all below grade wall and floor penetrations. Conduits penetrating exterior building walls and building floor slab shall be PVC coated rigid galvanized steel.
 - 2. For roof penetrations furnish and install roof flashing, counter flashing and pitch-pockets as specified under Roofing and Sheet Metal Sections of the Specifications.
 - 3. Provide membrane clamps and cable sealing fittings for any conduit that horizontally penetrates the waterproof membrane.

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4. Conduits that horizontally penetrate a waterproof membrane shall fall away from and below the penetration on the exterior side a minimum of two times the conduit diameters.

3.06 TERMINATIONS AND JOINTS

- A. Use raceway fittings that are of types compatible with the associated raceway and suitable for the use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings except as otherwise indicated.
- B. Raceways shall be joined using specified couplings or transition couplings where dissimilar raceway systems are joined.
- C. Conduits shall be securely fastened to cabinets, boxes and gutters using two locknuts and an insulating bushing or specified insulated connectors. Where joints cannot be made tight, use bonding jumpers to provide electrical continuity of the raceway system. Where terminations are subject to vibration, use bonding bushings or wedges to assure electrical continuity. Where subject to vibration or dampness, use insulating bushings to protect conductors. Install grounding bushings or bonding jumpers on all conduits terminating at concentric or eccentric knockouts.
- D. Conduit terminations exposed at weatherproof enclosures and cast outlet boxes shall be made watertight using specified connectors and hubs.
- E. Install specified cable sealing bushings on all conduits originating outside the building walls and terminating in switchgear, cabinets, or gutters inside the building. Install cable sealing bushings or raceway seal for conduit terminations in all grade level or below grade exterior pull, junction, or outlet boxes.
- F. Raceway seal: Inject into wire filled raceways, a pre-formulated rigid 2 lbs. density polyurethane foam which expands a minimum 35 times its original bulk. Foam shall have the physical properties of water vapor transmission of 1.2 to 3.0 perms: water absorption less than 2% by volume, fungus and bacterial resistant. Foam shall permanent seal against water, moisture, insects, and rodents. Install raceway sealing foam at the following points:
 1. Where conduits pass from warm locations to cold locations to prevent passage of water vapor (such as refrigerated spaces, constant temperature rooms, air-conditioned spaces, etc.).
 2. Where conduits enter buildings from below grade.
- G. Use short length (maximum of 6ft) of the appropriate FMC or LFMC conduit for connections to motors and other electrical equipment subject to movement, vibration, misalignment, cramped quarters, or noise transmission. Provide liquidtight flexible metal conduit for installation in exterior locations, moisture or humidity-laden atmosphere, corrosive atmosphere, water hose or spray wash-down operations and locations subject to seepage or dripping of oil, grease, or water. Provide a green ground wire with FMC or LFMC conduit.

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3.07 SUPPORTS

- A. Provide supports for raceways as specified in Section 26 05 29: Electrical Hangers and Supports.
- B. All raceways systems shall be secured to building structures using specified fasteners, clamps and hangers spaced according to the CEC.
- C. Support single runs of conduit using one-hole pipe straps. Where run horizontally on walls in damp or wet locations, install "clamp backs" to space conduit off the surface.
- D. Multiple conduit runs shall be supported using "trapeze" hangers fabricated from specified construction channel, mounted to 3/8-inch diameter, threaded steel rods secured to building structures. Fasten conduit to construction channel with standard one-hole pipe clamps or the equivalent. Provide lateral seismic bracing for hangers.
- E. Support exposed vertical conduit runs at each floor level, independent of cabinets or switches to which they run, by means of acceptable supports.
- F. Fasteners and supports in solid masonry and concrete:
 - 1. Use steel or malleable iron concrete inserts set in place prior to placing the concrete.
 - 2. After concrete installation:
 - 3. Steel expansion anchors not less than ¼ inch bolt size and not less than 1-1/8" embedment.
 - 4. Power set fasteners not less than ¼ inch diameter with depth of penetration not less than three inches.
 - 5. Use vibration and shock resistant anchors and fasteners for attaching to concrete ceilings.
- G. Hollow masonry: Toggle bolts are permitted. Bolts supported only by masonry block are not acceptable.
- H. Metal structures: Use machine screw fasteners or other devices specifically designed and approved for the application.

3.08 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

3.09 PROTECTION

- A. Provide final protection and maintain conditions that ensure coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.

END OF SECTION

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SECTION 26 05 33.16 - BOXES FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes boxes for electrical wiring.

1.03 DEFINITIONS

- A. CEC: California Electrical Code.

1.04 SUBMITTALS

- A. Product Data: For boxes.
- B. Source quality-control test reports.

1.05 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in CEC, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

PART 2 - PRODUCTS

2.01 BOXES, ENCLOSURES, AND CABINETS

- A. Products furnished by the following Manufacturers shall be acceptable if in compliance with all features specified herein and indicated on the Drawings.
 - 1. Outlet and junction boxes:
 - a. Spring City Electrical Manufacturing Co.
 - b. Thomas & Betts Corp.
 - c. Raco, Inc.
 - 2. Cast boxes:
 - a. Appleton Electric Co.
 - b. Crouse-Hinds.
 - 3. Pullboxes:
 - a. Circle AW Products.
 - b. Hoffman Engineering Co.
- B. Substitutions: Under provisions of Section 26 05 00: Common Work Results for Electrical.

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- C. Sheet Metal Outlet and Device Boxes: NEMA OS 1.
 - 1. Shall be of size and shape best suited for particular application, properly code sized for number of wires and conduits passing through or terminating therein, but in no case less than four inches square or octagon by 2-1/4-inch deep. Support boxes directly to structural members, framing or blocking by means of screws, anchors, bolts or embedded in masonry or concrete.
 - 2. Outlet boxes shall be one-piece pressed steel, sherardized or galvanized. Surface covers shall be used where exposed wiring is permissible. Boxes in damp or outdoor locations shall be malleable iron with threaded hubs, fitted with gasket and cast cover.
- D. Cast-Metal Outlet and Device Boxes: NEMA FB 1, ferrous alloy Type FD, with gasketed cover.
- E. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- F. Pull Boxes: Indoor pull boxes fabricated of code gauge steel, of size shown or as required, complete with screw covers, flush type in finished areas, surface type in unfinished areas, primed, and painted. See drawings for additional requirements.
- G. Pull boxes used outdoors or in damp locations fabricated of code gauge steel with rain-tight welded seams, conduit hubs on top or sides, screw covers with neoprene or korprene gaskets. Hardware non-ferrous metal or hot-dipped galvanized. Boxes located on roof, entire boxes painted two coats of rust-inhibiting aluminum paint, Rustoleum or equal. Boxes located on building walls or free standing; finish powder paint color to match exterior building color.
 - 1. Hoffman, NEMA 3R, A Series or equal.
- H. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous-hinge cover with flush latch, unless otherwise indicated.
 - 1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.

2.02 CABINETS:

- A. NEMA 250, Type 1, galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
- B. Hinged door in front cover with flush latch and concealed hinge.
- C. Key latch to match panelboards.
- D. Metal barriers to separate wiring of different systems and voltage.
- E. Accessory feet where required for freestanding equipment.

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PART 3 - EXECUTION

3.01 PREPARATION

- A. Install outlet boxes at the locations and elevations indicated on the Drawings or specified herein. Make adjustments to locations as required by structural conditions and to suit coordination requirements of other trades.
- B. Locate switch outlet boxes on the latch side of doorways unless otherwise indicated.

3.02 INSTALLATION

- A. Install boxes in accordance with Manufacturer's written instructions, as indicated on Drawings and as specified herein.
- B. Locate electrical boxes as indicated on Drawings and as required for splices, taps, wire pulling, equipment connections and Code compliance.
- C. Install junction or pull boxes where required to limit bends in conduit runs to not more than (3) 90 degree bends or where pulling tension achieved would exceed the maximum allowable for the cable to be installed. Note that these boxes are not indicated on the Drawings.
- D. Leave no unused openings in any box. Install close-up plugs as required to seal openings.
- E. Provide cast metal boxes with gasketed cast metal cover plates where boxes are exposed in damp or wet locations.
- F. Welded outlet boxes shall only be used in concealed interior installations.
- G. Provide precast concrete boxes in exterior planting areas, walkways, roads etc.
- H. Use conduit outlet bodies to facilitate pulling of conductors or to make changes in conduit direction only. Do not make splices in conduit outlet bodies.
- I. Install galvanized steel coverplates on boxes in unfinished areas, above accessible ceilings and on surface mounted outlets.

3.03 SUPPORTS

- A. Provide boxes installed in walls with brackets designed for attaching directly to the studs or mount boxes on specified box supports.
- B. Mount boxes, installed in suspended ceilings of gypsum board or lath and plaster construction, to 16-gauge metal channel bars attached to main ceiling runners.
- C. Support boxes independently of conduit system.

END OF SECTION

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SECTION 26 05 43 - UNDERGROUND DUCTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SCOPE

- A. Section Includes:
 - 1. Conduit, ducts, and duct accessories for direct-buried and concrete-encased duct banks, and in single duct runs.
 - 2. Handholes and pull boxes.

1.02 RELATED SECTIONS

- A. Section 26 05 19 Low Voltage Electrical Power Conductors and Cables
- B. Section 26 05 53 Identification for Electrical Systems

1.03 DEFINITION

- A. RNC: Rigid nonmetallic conduit.

1.04 SUBMITTALS

- A. Submit in accordance with of Section 01 3300 Shop Drawings, Product Data and Samples.
- B. Product Data: For the following:
 - 1. Duct-bank materials, including separators and miscellaneous components.
 - 2. Ducts and conduits and their accessories, including elbows, end bells, bends, fittings, and solvent cement.
 - 3. Accessories for manholes, handholes, pull boxes, and other utility structures.
 - 4. Warning tape.
- C. Shop Drawings for Precast or Factory-Fabricated Underground Utility Structures: Include plans, elevations, sections, details, attachments to other work, and accessories, including the following:
 - 1. Duct entry provisions, including locations and duct sizes.
 - 2. Reinforcement details.
 - 3. Frame and cover design and manhole frame support rings.
 - 4. Ladder details.
 - 5. Grounding details.
 - 6. Dimensioned locations of cable rack inserts, pulling-in and lifting irons, and sumps.
 - 7. Joint details.
- D. Product Certificates: For concrete and steel used in precast concrete manholes, pull boxes and handholes, comply with ASTM C 858.
- E. Field quality-control reports.

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1.05 QUALITY ASSURANCE

- A. Comply with IEEE C2 – National Electrical Safety Code.
- B. Comply with the current issue of the California Electrical Code.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver ducts to Project site with ends capped. Store nonmetallic ducts with supports to prevent bending, warping, and deforming.
- B. Store precast concrete underground utility structures at Project site as recommended by manufacturer to prevent physical damage. Arrange so identification markings are visible.
- C. Lift and support precast concrete units only at designated lifting or supporting points.

1.07 COORDINATION

- A. Coordinate layout and installation of ducts, manholes, handholes, and pull boxes with final arrangement of other utilities, site grading, and surface features as determined in the field.
- B. Coordinate elevations of ducts and duct-bank entrances into manholes, handholes, and pull boxes with final locations and profiles of ducts and duct banks as determined by coordination with other utilities, underground obstructions, and surface features. Revise locations and elevations from those indicated as required to suit field conditions and to ensure that duct runs drain to manholes and handholes, and as approved by the Owner's Representative.

PART 2 - PRODUCTS

2.01 CONDUIT

- A. Rigid Steel Conduit: Galvanized. Comply with ANSI C80.1.
- B. RNC: NEMA TC 2, Type EPC-40-PVC, and Type EPC-80-PVC UL 651, with matching fittings by same manufacturer as the conduit, complying with NEMA TC 3 and UL 514B.

2.02 NONMETALLIC DUCTS AND DUCT ACCESSORIES

- A. Basis-of-Design Product: Carlon or comparable product by one of the following:
 - 1. Cantex, Inc.
 - 2. Allied Tube & Conduit; Atkore International.
 - 3. JM Eagle; J-M Manufacturing Company, Inc..
 - 4. DCX-CHOL Enterprises, Inc.; ELECSYS Division.
 - 5. Electri-Flex Company.
 - 6. IPEX Inc.
 - 7. Lamson & Sessions; Carlon Electrical Products.
 - 8. Or, Equal.

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- B. Duct Accessories:
 - 1. Duct Separators: Factory-fabricated rigid PVC interlocking spacers, sized for type and sizes of ducts with which used, and retained to provide minimum duct spacings indicated while supporting ducts during concreting or backfilling.
 - 2. Warning Tape: Underground-line warning tape specified in Section 25 0553 "Identification."

2.03 PRECAST CONCRETE HANDHOLES AND PULL BOXES

- A. Manufacturers: provide products by one of the following:
 - 1. Jensen Precast
 - 2. Christy Concrete Products.
 - 3. Oldcastle Precast Group.
 - 4. Oldcastle Precast Inc.; Utility Vault Division.
 - 5. Or, Equal.
- B. Comply with ASTM C 858 for design and manufacturing processes.
- C. Ferrous metal hardware shall be hot-dip galvanized in accordance with ASTM A153 (ASTM A153M) and ASTM A123 (ASTM A123M) Standard Specification for Zinc (Hot-Dip Galvanized) Coatings.
- D. Description: Factory-fabricated, reinforced-concrete, monolithically poured walls and bottom unless open-bottom enclosures are indicated. Frame and cover shall form top of enclosure and shall have load rating consistent with that of handhole or pull box.
 - 1. Frame and Cover: Weatherproof steel frame, with steel cover with recessed cover hook eyes and tamper-resistant, captive, cover-securing stainless-steel bolts.
 - 2. Frame and Cover: Weatherproof steel frame, with hinged steel access door assembly with tamper-resistant, captive, cover-securing stainless-steel bolts.
 - a. Cover Hinges: Concealed, with hold-open ratchet assembly.
 - b. Cover Handle: Recessed.
 - 3. Cover Finish: Nonskid finish shall have a minimum coefficient of friction of 0.50.
 - 4. Cover Legend: Molded lettering, As indicated for each service.
 - 5. Configuration: Units shall be designed for flush burial and have closed bottom unless otherwise indicated.
 - 6. Extensions and Slabs: Designed to mate with bottom of enclosure. Same material as enclosure.
 - a. Extension shall provide increased depth of 12 inches
 - b. Slab: Same dimensions as bottom of enclosure, and arranged to provide closure.

2.04 SOURCE QUALITY CONTROL

- A. Test and inspect precast concrete utility structures according to ASTM C 1037.

PART 3 - EXECUTION

3.01 CORROSION PROTECTION

- A. Aluminum shall not be installed in contact with earth or concrete.

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- B. Rigid steel galvanized conduit to be wrapped with 10-Mil PVC tape.

3.02 UNDERGROUND DUCT APPLICATION

- A. Ducts for Electrical Cables over 600 V: RNC, NEMA Type EPC-80, Installed per utility requirements.
- B. Ducts for Electrical Feeders 600 V and Less: RNC, NEMA Type EPC-40-PVC, in direct-buried duct bank unless otherwise indicated.
- C. Ducts for Electrical Branch Circuits: RNC, NEMA Type EPC-40-PVC, in direct-buried duct bank unless otherwise indicated.

3.03 EARTHWORK

- A. Excavation and Backfill: Do not use heavy-duty, hydraulic-operated, compaction equipment.
- B. Restore surface features at areas disturbed by excavation and reestablish original grades unless otherwise indicated. Replace removed sod immediately after backfilling is completed.
- C. Cut and patch existing pavement in the path of underground ducts and utility structures according to Division 01 Section "Cutting and Patching."

3.04 DUCT INSTALLATION

- A. Slope: Pitch ducts a minimum slope of 1:300 down toward manholes and handholes and away from buildings and equipment. Slope ducts from a high point in runs between two manholes to drain in both directions.
- B. Curves and Bends: Use 5-degree angle couplings for small changes in direction. Use manufactured long sweep bends with a minimum radius of 60 inches, horizontally and 36-inch vertically, at other locations unless otherwise indicated.
- C. Joints: Use solvent-cemented joints in ducts and fittings and make watertight according to manufacturer's written instructions. Stagger couplings so those of adjacent ducts do not lie in same plane.
- D. Duct Entrances to Manholes and Concrete and Polymer Concrete Handholes: Use end bells, spaced approximately 10 inches o.c. for 5-inch ducts, and vary proportionately for other duct sizes.
 - 1. Begin change from regular spacing to end-bell spacing 10 ft. from the end bell without reducing duct line slope and without forming a trap in the line.
 - 2. Grout end bells into structure walls from both sides to provide watertight entrances.
- E. Sealing: Provide temporary closure at terminations of ducts that have cables pulled. Seal spare ducts at terminations. Use sealing compound and plugs to withstand at least 15-psig hydrostatic pressure.
- F. Pulling Cord: Install 100-lbf- test nylon cord in ducts, including spares.

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- G. Direct-Buried Duct Banks:
1. Support ducts on duct separators coordinated with duct size, duct spacing, and outdoor temperature.
 2. Space separators close enough to prevent sagging and deforming of ducts, with not less than 5 spacers per 20 ft. of duct. Secure separators to earth and to ducts to prevent displacement during backfill and yet permit linear duct movement due to expansion and contraction as temperature changes. Stagger spacers approximately 6 inches between tiers.
 3. After installing first tier of ducts, backfill and compact. Start at tie-in point and work toward end of duct run, leaving ducts at end of run free to move with expansion and contraction as temperature changes during this process. Repeat procedure after placing each tier. After placing last tier, hand-place backfill to 4 inches over ducts and hand tamp. Firmly tamp backfill around ducts to provide maximum supporting strength. Use hand tamper only. After placing controlled backfill over final tier, make final duct connections at end of run and complete backfilling with normal compaction.
 4. Install ducts with a minimum of 3 inches between ducts for like services and 3 feet between power and signal ducts.
 5. Depth: Install top of duct bank at least 36 inches below finished grade unless otherwise indicated.
 6. Install manufactured rigid steel galvanized conduit elbows for stub-ups at poles and equipment and at building entrances through the floor.
 - a. Couple steel conduits to ducts with female adapters designed for this purpose, and encase coupling with 3 inches of concrete.
 - b. For equipment mounted on outdoor concrete bases, extend steel conduit horizontally a minimum of 60 inches from edge of equipment pad or foundation. Install insulated grounding bushings on terminations at equipment.
 7. Warning Tape: Bury warning tape approximately 12 inches above direct-buried ducts and duct banks, placing them 24 inches o.c. Align tape along the width and along the centerline of duct bank. Provide an additional plank for each 12-inch increment of duct-bank width over a nominal 18 inches.

3.05 INSTALLATION OF CONCRETE MANHOLES, HANDHOLES, AND PULL BOXES

- A. Precast Concrete Handhole and Manhole Installation:
1. Comply with ASTM C 891 unless otherwise indicated.
 2. Install units level and plumb and with orientation and depth coordinated with connecting ducts to minimize bends and deflections required for proper entrances.
 3. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1-inch sieve to No. 4 sieve and compacted to same density as adjacent undisturbed earth.
- B. Elevations:
1. Handhole Covers: In paved areas and trafficways, set surface flush with finished grade. Set covers of other handholes 1 inch above finished grade.
 2. Where indicated, cast handhole cover frame integrally with handhole structure.
- C. Drainage: Install drains in bottom of manholes where indicated. Coordinate with drainage provisions indicated.

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- D. Hardware: Install removable hardware, including pulling eyes, cable stanchions, cable arms, and insulators, as required for installation and support of cables and conductors and as indicated.

3.06 GROUNDING

- A. Ground underground ducts and utility structures according to the CEC and Division 26 Section "Grounding and Bonding for Electrical Systems." The more stringent shall apply.

3.07 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 1. Demonstrate capability and compliance with requirements on completion of installation of underground ducts and utility structures.
 2. Pull aluminum or wood test mandrel through duct to prove joint integrity and test for out-of-round duct. Provide mandrel equal to 80 percent fill of duct. If obstructions are indicated, remove obstructions and retest.
 3. Test manhole and handhole grounding to ensure electrical continuity of grounding and bonding connections. Measure and report ground resistance as specified in Division 26 Section "Grounding and Bonding for Electrical Systems."
- B. Correct deficiencies and retest as specified above to demonstrate compliance.
- C. Prepare test and inspection reports.

3.08 CLEANING

- A. Pull leather-washer-type duct cleaner, with graduated washer sizes, through full length of ducts. Follow with rubber duct swab for final cleaning and to assist in spreading lubricant throughout ducts.
- B. Clean internal surfaces of manholes, including sump. Remove foreign material.

END OF SECTION

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SECTION 26 05 53 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Equipment identification
 - 2. Panelboard directories
 - 3. Identification for power, conductors, communication, and control cable
 - 4. Wire and cable identification
 - 5. Buried electrical line warnings
 - 6. Junction box identification
 - 7. Inscribed device coverplates
 - 8. Warning labels and signs
 - 9. Instruction signs
 - 10. Miscellaneous identification products

1.02 RELATED SECTIONS

- A. Section 09 90-00, Painting and Coating

1.03 REFERENCE STANDARDS

- A. ANSI/ASME A13.1 – Scheme for the Identification of Electrical Systems.

1.04 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: Submit samples of each color, lettering style, and other graphic representation required for each identification material or system.
- C. Schedules of nameplates to be furnished indicating wording, symbols, letter size, letter style, and color coding for each system.

1.05 QUALITY ASSURANCE

- A. Coordinate identification names, abbreviations, colors, and other features with requirements in the Contract Documents, Shop Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual, and with those required by codes, standards, and 29 CFR 1910.145.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer:
 - 1. Brady/Seton
 - 2. Stranco

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3. Rowmark
4. Or equal

2.02 CONDUCTOR AND COMMUNICATION AND CONTROL-CABLE IDENTIFICATION

- A. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather and chemical resistant coating and matching wraparound adhesive tape for securing ends of legend label.
 1. Marker for Tags: Machine-printed permanent, waterproof, black ink marker recommended by printer manufacturer.
- B. Snap-Around labels: Slit, pretensioned, flexible, preprinted, color-coded acrylic sleeve, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- C. Snap around, Color Coding Bands: Slit, pretensioned, flexible, solid color-coded acrylic sleeve, 2 inches long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.

2.03 UNDERGROUND-LINE WARNING TAPE

- A. Tape:
 1. Recommended by manufacturer for the method of installation and suitable to identify and locate underground electrical and communications utility lines.
 2. Printing on tape shall be permanent and shall not be damaged by burial operations.
 3. Tape material and ink shall be chemically inert, and not subject to degrading when exposed to acids, alkalis, and other destructive substances commonly found in soils.
- B. Color and Printing:
 1. Comply with ANSI Z535.1 through ANSI A535.5
 2. Inscriptions for Red-Colored Tapes: ELECTRIC LINE, HIGH VOLTAGE.
 3. Inscriptions for Orange-Colored Tapes: TELEPHONE CABLE, CATV CABLE, COMMUNICATIONS CABLE, OPTICAL FIBER CABLE. C. Tag:
 4. Pigmented polyolefin, bright-colored, compounded for direct-burial service.
 5. Thickness: 4 mils.
 6. Weight: 18.5 lb/1000 sq. ft.
 7. 3-inch Tensile According to ASTM D 882: 30 lbf, and 2500 psi.

2.04 WARNING LABELS AND SIGNS

- A. Comply with CEC and 29 CFR 1910.145
- B. Self-Adhesive Warning Labels: Factory printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment, unless otherwise indicated.
- C. Warning label and sign shall include, but are not limited to, the following legends:
 1. Material: rigid plastic laminated impact acrylic, 2 layer, exterior grade, UV stable
 2. Thickness: 3/16 inch minimum

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3. Maximum label size: Length and width vary for required label content, but no less than 2 inches wide by 1 inch high. D. Baked-Enamel Warnings Signs:
4. Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application.
5. 1/4 inch grommets in corners for mounting.
6. Nominal size, 7 inches by 10 inches E. Metal-Backed, Butyrate Warning Signs:
7. Weather-resistant, nonfading, preprinted, cellulose-acetate butyrate signs with 0.0396 inch galvanized-steel backing; and with colors, legend, and size required for application.
8. 1/4 inch grommets in corners for mounting.
9. Nominal size, 10 inches by 14 inches

2.05 EQUIPMENT IDENTIFICATION NAMEPLATES

- A. Provide plastic labels for mechanical engraving with predrilled holes for attachment hardware.
 1. Material: rigid plastic laminated impact acrylic, 2 layer, exterior grade, UV stable
 2. Thickness: 3/16 inch minimum
 3. Maximum label size: Length and width vary for required label content, but no less than 2 inches wide by 1 inch high.
 4. Background color:
 - a. Normal power: Black, matte finish
 - b. Emergency power: Red, matte finish
 5. Lettering: White, machine engraved, Futura font, 3/8 inch high, all caps
 6. Maximum temperature: Able to withstand up to 160 deg. F.
 7. Fasteners: Self-tapping stainless steel screws, except contact type permanent adhesive where screws cannot or should not penetrate substrate.
 - a. Mounting screw type to be #8- 18 x 1 /2 drilling or tapping style, 1/4 inch hex washer head, stainless steel, or similar, appropriate for material in which sign is affixed to. A bead of silicone sealer shall be applied on back of sign and at screw locations prior to affixing sign to equipment.
 - b. For signs larger than 3 inches by 3 inches, use a minimum of 4 mounting screws.

2.09 WIRE AND TERMINAL MARKERS

- A. Provide self-adhering, pre-printed, machine printable or write-on, self-laminating vinyl wrap around strips. Blank markers shall be inscribed using the printer or pen recommended by Manufacturer for this purpose.

2.10 PAINTED IDENTIFICATION MATERIALS

- A. Stencils: Standard fiberboard stencils, prepared for required applications with the letter sizes generally complying with recommendations of ANSI A13.1 for piping and similar applications, but not less than 3/4 inch high letters for access door signs and similar operational instructions.
- B. Stencil Paint: Standard exterior type stenciling enamel; black, except as otherwise indicated; either brushing grade or pressurized spray-can form and grade.

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- C. Identification Paint: Standard identification enamel of colors indicated or, if not otherwise indicated for piping systems, comply with ANSI A13.1 for colors.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Clean piping and equipment surfaces of substances that could impair bond of identification devices, including dirt, oil, grease, release agents, and incompatible primers, paints, and encapsulants.
- B. Coordination: Where identification is to be applied to surfaces which require insulation, painting or other covering or finish, install identification after completion of covering and painting. Install identification prior to installation of acoustical ceilings and similar removable concealment.

3.02 ELECTRICAL EQUIPMENT IDENTIFICATION

- A. General: Install engraved plastic laminate sign or plastic equipment marker on or near each major item of electrical equipment and each operational device, as specified herein if not otherwise specified for each item or device.
- B. Optional sign types: Where lettering larger than 1 inch height is needed for proper identification, because of distance from normal location of required identification, stenciled signs may be provided in lieu of engraved plastic, verify with Owner's Representative.
- C. Lettering size: Minimum 1/4 inch high lettering for name of unit where viewing distances less than 24 inches, 1/2 inch high for distances up to 6 feet, and proportionately larger lettering for greater distances. Provide secondary lettering of 2/3 to 3/4 of size of the principal lettering.

3.06 WIRE AND CABLE IDENTIFICATION

- A. Provide wire markers on each conductor in panelboards, pull boxes outlet and junction boxes and at load connection. Identify with branch circuit or feeder number for power and lighting circuits and with control wire number as indicated on Manufacturer's shop drawings for control wiring.
- B. Provide colored phase markers for conductors as noted in Section 26 05 19 Conductors and Cables. Apply colored, pressure sensitive plastic tape in half-lapped turns for a distance of 3 inches from terminal pointes and in boxes where splices or taps are made. Apply the last two laps of tape with no tension to prevent possible unwinding. Do not cover cable identification markings by taping.

3.07 UNDERGROUND CONDUIT MARKERS

- A. During trench backfilling, for exterior underground power, signal and communications lines, install continuous underground plastic line marker, located directly above line at 6 inches to 8 inches below finished grade. Where multiple lines installed in a common

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trench or concrete envelope, do not exceed an overall width of 16 inches; install a single line marker.

3.08 JUNCTION BOX IDENTIFICATION

- A. The cover of junction, pull, and connection boxes for both power and signal systems, located above suspended ceilings and below ceilings in non-public areas, shall be clearly marked with a permanent ink felt pen. Identify the circuits (panel designation and circuit numbers) contained in each box.

3.09 ADJUSTING AND CLEANING

- A. Adjusting: Relocate any electrical identification device which has become visually blocked by Work of this Division or other Divisions.
- B. Cleaning: Clean face of identification devices.

3.10 EXTRA STOCK

- A. Furnish minimum of 5% extra stock of each electrical identification material required, including additional numbered valve tags (not less than 3) for each piping system, additional piping system identification markers, and additional plastic laminate engraving blanks of assorted sizes.
 - 1. Where stenciled markers are provided, clean and retain stencils after completion of stenciling and include used stencils in extra stock, along with required stock of stenciling paints and applicators.

END OF SECTION

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SECTION 26 32 13.13 – DIESEL ENGINE GENERATORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Install an owner provided diesel driven generator set with belly tank and enclosure as described herein this specification and on the drawing set. The unit shall be capable of operating during the extremes of summer and winter at this location. The engine generator will support emergency systems for the facility.

1.2 QUALITY ASSURANCE

- A. Technician Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
 - 1. Maintenance Proximity: Not more than Two hours' normal travel time from Installer's place of business to Project site.
- B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 80 miles of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.
- C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- E. Comply with ASME B15.1.
- F. Comply with NFPA 37.
- G. Comply with NFPA 70.
- H. Comply with NFPA 110.
- I. Comply with UL 2200.
- J. Comply with NFPA 111 Per CFC 1203.1.3.

1.3 COORDINATION

- A. Coordinate with Generator manufacturer for startup and commissioning.

1.4 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at final acceptance, provide 12 months' full maintenance by skilled employees of manufacturer's designated service organization. Include quarterly exercising to check for proper starting, load transfer, and running under load. Include routine preventive maintenance as recommended by manufacturer and

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adjusting as required for proper operation. Provide parts and supplies same as those used in the manufacture and installation of original equipment.

- B. Provide end user personnel training.

PART 2 - PRODUCTS

2.1 ENGINE-GENERATOR SET

- A. Owner Furnished.

2.2 FUEL OIL STORAGE

- A. Owner Furnished

2.3 CONTROL AND MONITORING

- A. Owner Furnished

2.4 OUTDOOR GENERATOR-SET ENCLOSURE

- A. Owner Furnished

2.5 VIBRATION ISOLATION DEVICES

- A. Elastomeric Isolator Pads: Oil- and water-resistant elastomer or natural rubber, arranged in single or multiple layers, molded with a nonslip pattern and galvanized-steel baseplates of sufficient stiffness for uniform loading over pad area, and factory cut to sizes that match requirements of supported equipment.
 - 1. Material: Standard neoprene to comply with IBC seismic standards for the project location.
- B. Restrained Spring Isolators: Freestanding, steel, open-spring isolators with seismic restraint.
 - 1. Housing: Steel with resilient vertical-limit stops to prevent spring extension due to wind loads or if weight is removed; factory-drilled baseplate bonded to 1/4-inch thick, elastomeric isolator pad attached to baseplate underside; and adjustable equipment mounting and leveling bolt that acts as blocking during installation.
 - 2. Outside Spring Diameter: Not less than 80 percent of compressed height of the spring at rated load.
 - 3. Minimum Additional Travel: 50 percent of required deflection at rated load.
 - 4. Lateral Stiffness: More than 80 percent of rated vertical stiffness.
 - 5. Overload Capacity: Support 200 percent of rated load, fully compressed, without deformation or failure.

PART 3 - EXECUTION

3.1 IDENTIFICATION

- A. Provide labeling for system components, engraved nameplates, safety labeling warning of dangers per CAL OSHA and required labeling for the fuel tank system per NFPA."

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3.2 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections. Report results in writing.
- B. Tests and Inspections:
1. Contractor to provide the services of the Generator Vendor to perform on site tests recommended by manufacturer and each electrical test and visual and mechanical inspection for "AC Generators and for Emergency Systems" specified in NETA Acceptance Testing Specification. Certify compliance with NETA test parameters and NFPA 110.
 2. Load Bank Test
 - a. Minimum test load bank test period of 4 hours.
 - b. Provide load bank and cables to facilitate the test.
 - c. Load test generator at 60% of nameplate for 1-hour, 80 % for 1-hour, 100% of nameplate for 15-minutes and then stepdown to 90% nameplate for 1-hour.
 - 1) Provide recording of fluid levels and temperatures at each step.
 - d. Simulate the following transient conditions to verify generator operation in accordance with manufacturer's specifications. Load to be maximum attainable, up to 100 % rated full load.
 - 1) Drop out of generator under load.
 - 2) Reconnection of generator with load.
 - 3) Generator output voltage deviation from no load to 25 percent load and return, and 60 percent to 100 percent and return.
 3. Battery Tests: Equalize charging of battery cells according to manufacturer's written instructions. Record individual cell voltages.
 - a. Measure charging voltage and voltages between available battery terminals for full-charging and float-charging conditions. Check electrolyte level and specific gravity under both conditions.
 - b. Test for contact integrity of all connectors. Perform an integrity load test and a capacity load test for the battery.
 - c. Verify acceptance of charge for each element of the battery after discharge.
 - d. Verify that measurements are within manufacturer's specifications.
 4. Battery-Charger Tests: Verify specified rates of charge for both equalizing and float-charging conditions.
 5. System Integrity Tests: Methodically verify proper installation, connection, and integrity of each element of engine-generator system before and during system operation. Check for air, exhaust, and fluid leaks.
 6. Voltage and Frequency Transient Stability Tests: Use recording oscilloscope to measure voltage and frequency transients for 50 and 100 percent step-load increases and decreases, and verify that performance is as specified.
 7. Harmonic-Content Tests: Measure harmonic content of output voltage under 25 percent and at 100 percent of rated linear load. Verify that harmonic content is within specified limits.
- C. Live Test
1. Test connections for loop start to the automatic transfer switch.
 2. Initiate a transfer to pick up existing building loads for a period of 1-hour.

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- D. Coordinate tests with tests for transfer switches and run them concurrently.
 - E. Test instruments shall have been calibrated within the last 12 months, traceable to standards of NIST, and adequate for making positive observation of test results. Make calibration records available for examination on request.
 - F. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - G. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - H. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - I. Remove and replace malfunctioning units and retest as specified above.
 - J. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.
 - K. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation resistances, time delays, and other values and observations. Attach a label or tag to each tested component indicating satisfactory completion of tests.
 - L. Perform Infrared Scanning: Performing an infrared scan of each power wiring termination and each bus connection. Remove all access panels so terminations and connections are accessible to portable scanner.
- 3.3 TOUDHUP PAINT
- 1. Provide touchup paint and patch all nicks and scuffs on the unit leaving no bare metal exposed to the elements.
- 3.4 DEMONSTRATION
- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain packaged engine generators. Refer to Division 01 Section "Demonstration and Training."
 - B. Provide a video of the training.

END OF SECTION 26 32 13

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SECTION 26 36 23 – AUTOMATIC TRANSFER SWITCHES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes transfer switches rated 600 V and less, including the following:
 - 1. Automatic transfer switches.
 - 2. Remote annunciation systems.
 - 3. Remote annunciation and control systems.

1.03 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, weights, operating characteristics, furnished specialties, and accessories.
 - 1. Provide a withstand rating chart that includes required protective devices to meet the listed ratings.
- B. Shop Drawings: Dimensioned plans, elevations, sections, and details showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and material lists for each switch specified.
- C. Qualification Data: For manufacturer and testing agency.
- D. Field quality-control test reports.
- E. Operation and Maintenance Data: For each type of product to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
 - 1. Features and operating sequences, manual.
 - 2. List of all factory settings of relays; provide relay-setting and calibration instructions, including software, where applicable.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Maintain a service center capable of providing training, parts, and emergency maintenance repairs within a response period of less than eight hours from time of notification.
- B. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the InterNational Electrical Testing Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and that is acceptable to authorities having jurisdiction.

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1. Testing Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association or the National Institute for Certification in Engineering Technologies to supervise on-site testing specified in Part 3.
- C. Source Limitations: Obtain manual transfer switches as part of the engine generator package, through one source from a single manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in CEC, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- E. Comply with NEMA ICS 1.
- F. Comply with CEC.
- G. Comply with NFPA 110.
- H. Comply with UL 1008 unless requirements of these Specifications are stricter.

1.05 COORDINATION

- A. Coordinate the location of the transfer switch in the main electrical room when dimensions differ from plan.

PART 2 - PRODUCTS

2.01 AUTOMATIC TRANSFER SWITCHES

- A. Owner Furnished

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Identify components according to Division 26 Section "Identification for Electrical Systems".
- B. Provide a placard indicating the sequence of operation including load shedding.
- C. The installation and operation shall comply with NFPA 110 for an optional standby system.

3.02 CONNECTIONS

- A. Wiring to Remote Components: Match type and number of cables and conductors to control and communication requirements of transfer switches as recommended by manufacturer. Increase raceway sizes at no additional cost to Owner if necessary to accommodate required wiring.
- B. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems".

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- C. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables".

3.03 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections. Report results in writing.
- B. Testing Agency: Engage a qualified independent testing and inspecting agency to perform tests and inspections and prepare test reports.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installation, including connections, and to assist in testing.
 - 2. After installing equipment and after electrical circuitry has been energized, test for compliance with requirements.
 - 3. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
 - 4. Measure insulation resistance phase-to-phase and phase-to-ground with insulation-resistance tester. Include external annunciation and control circuits. Use test voltages and procedure recommended by manufacturer. Comply with manufacturer's specified minimum resistance.
 - a. Check for electrical continuity of circuits and for short circuits.
 - b. Inspect for physical damage, proper installation and connection, and integrity of barriers, covers, and safety features.
 - c. Verify that automatic and manual transfer warnings are properly placed.
 - d. Perform automatic and manual transfer operation.
 - 5. After energizing circuits, demonstrate interlocking sequence and operational function for each switch.
 - a. Verify utility power rotation and coordinate throughout the distribution system.
 - b. Simulate power failures of normal source to automatic transfer switches and of emergency source with normal source available.
 - c. Simulate loss of phase-to-ground voltage for each phase of normal source.
 - d. Verify time-delay settings.
 - e. Verify pickup and dropout voltages by data readout or inspection of control settings.
 - f. Perform contact-resistance test across main contacts and correct values exceeding 500 microhms and values for 1 pole deviating by more than 50 percent from other poles.
 - g. Verify proper sequence and correct timing of automatic engine starting, transfer time delay, retransfer time delay on restoration of normal power, and engine cool-down and shutdown.
- C. Coordinate tests with a generator connected and operating.
 - 1. Contractor to furnish a portable generator, fuel, cables and personnel to connect and accomplish the test.
- D. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation and contact resistances and time delays. Attach a label or tag to each tested component indicating satisfactory completion of tests.

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- E. Remove and replace malfunctioning units and retest as specified above.
- F. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each switch. Remove all access panels so joints and connections are accessible to portable scanner.
 - 1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each switch 11 months after date of Substantial Completion.
 - 2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
 - 3. Record of Infrared Scanning: Prepare a certified report that identifies switches checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.04 DEMONSTRATION

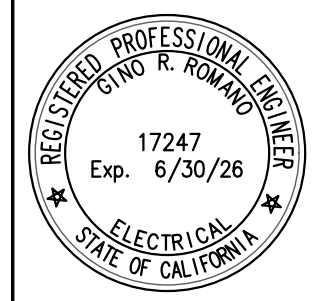
- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain transfer switches and related equipment as specified below. Refer to Division 01 Section "Demonstration and Training".
- B. Factory authorized service representative shall conduct two initial 4-hour training sessions for Owner's Maintenance Personnel upon completion and acceptance of system. Provide one 4-hour follow-up training session to be scheduled by Owner within one year of the final date of the final initial training session. Instructions shall include operation, maintenance, adjusting and testing of equipment with both classroom training and hands-on instruction. The agenda for the second session will be by Owner.
- C. Contractor shall provide a training video.
- D. Contractor shall schedule training with a minimum of 7-days advance notice.
- E. Coordinate this training when there is a portable generator in place.

END OF SECTION

FORESTHILL PUBLIC UTILITY DISTRICT

25985 FORESHILL RD.
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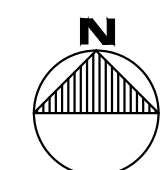
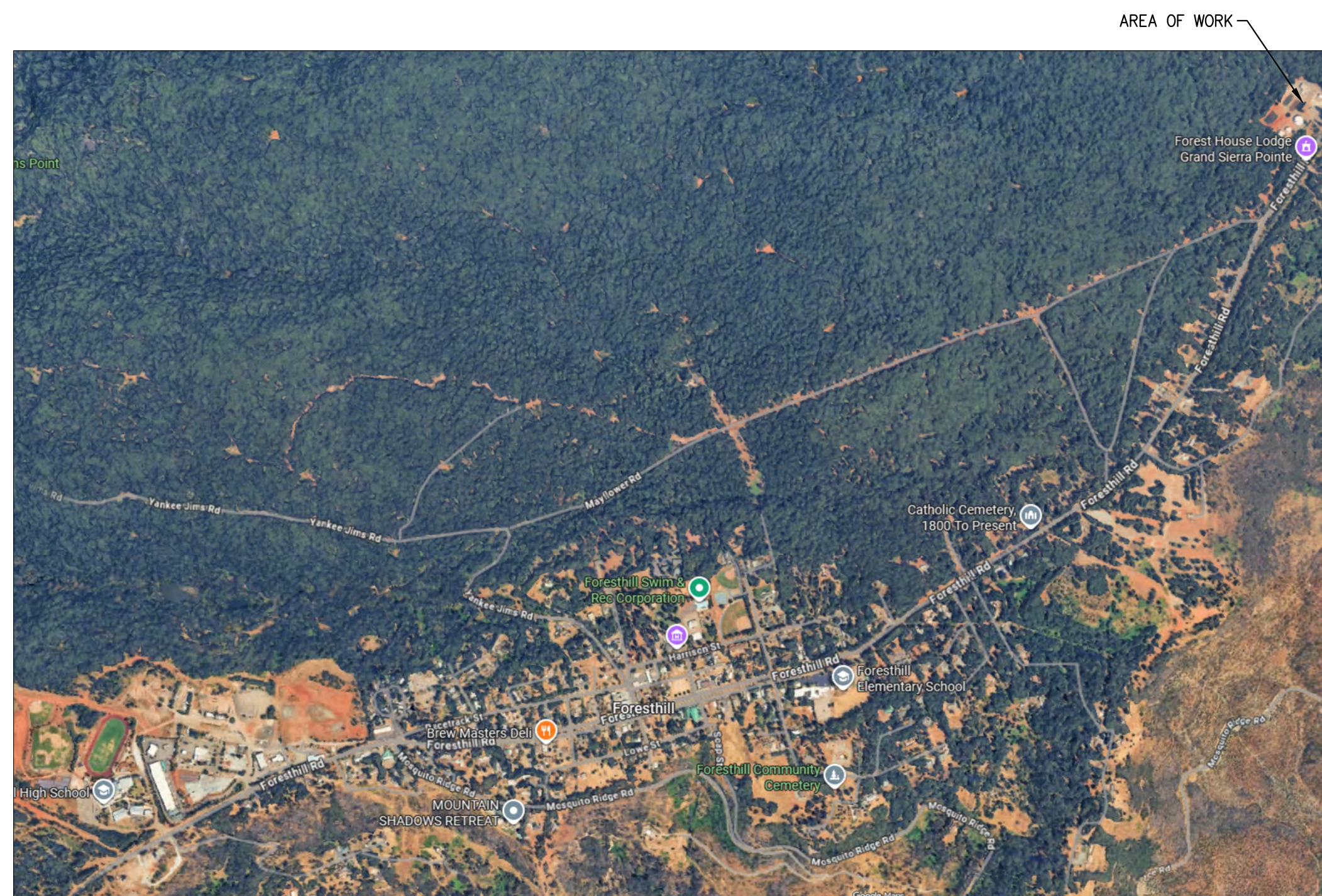
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PETERS ENGINEERING

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VICINITY MAP

SCALE: N.T.S.



GENERAL NOTES

1. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL STANDARDS AND CODES.
2. ALL MATERIALS INSTALLED SHALL BE NEW. THE USE OF USED MATERIALS SHALL NOT BE PERMITTED.
3. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE AND SIGN-OFF FROM THE OWNERS REPRESENTATIVES. IF LONGER GUARANTEES ARE AVAILABLE, THE CONTRACTOR SHALL PROVIDE THE GUARANTEE THAT PROVIDES THE LONGEST TERM AVAILABLE. ALL GUARANTEES SHALL BE PROVIDED TO THE OWNER IN WRITING.
4. ANY DEVICES MOUNTED ON WALLS, EQUIPMENT RACKS, ETC, SHALL BE INSTALLED PLUM AND SQUARE TO THE BUILDING. ENSURE ANY MOUNTED DEVICE IS LEVEL, BY USE OF A BUBBLE LEVEL, WHETHER OTHER DEVICES IN THE AREA, INSTALLED BY OTHERS, ARE LEVEL OR NOT.
5. CLOSEOUT DOCUMENTATION, INCLUDING AS-BUILT DRAWINGS IN AUTOCAD FORMAT (CURRENT VERSION) SHOWING ALL EQUIPMENT, LOCATIONS AND TYPES, O&M MANUALS, TESTING RESULTS AND PHONE EXTENSION NUMBERS FOR EACH LOCATION SHALL BE PROVIDED TO THE OWNERS REPRESENTATIVES UPON COMPLETION.
6. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40, MINIMUM.
7. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID WITH THREADED FITTINGS.

PROJECT CONTACTS

OWNER: FORESTHILL PUBLIC UTILITY DISTRICT
24540 MAIN STREET
FORESTHILL, CA

ENGINEER: PETERS ENGINEERING
7750 COLLEGE TOWN DR.
SUITE 101
SACRAMENTO, CA 95826
ENGINEER: GINO ROMANO, PE
TELEPHONE: 916-447-2841

SCOPE OF WORK

1. DISCONNECT (2) EXISTING BUILDING GENERATORS AND REPLACE WITH (1) EXTERIOR GENERATOR. GENERATOR IS OWNER FURNISHED, CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, START-UP AND COMMISSIONING.
2. EXISTING BUILDING GENERATORS ARE TO BE DISCONNECTED AND RETIRED IN PLACE.
3. REPLACE EXISTING AUTOMATIC TRANSFER SWITCH (ATS) IN MAINTENANCE BUILDING WITH NEW ATS. ATS IS OWNER FURNISHED, CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, START-UP AND COMMISSIONING.
4. PROVIDE TAP BOX WITH PORTABLE GENERATOR CONNECTIONS AT EACH BUILDING.

AREA MAP



PROJECT DESCRIPTION

REPLACE THE USE OF (2) EXISTING BUILDING GENERATORS AND COMBINE BACKUP POWER TO BE PROVIDED BY (1) EXTERIOR STAND-BY GENERATOR.

APPLICABLE CODES

- UNLESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CONFORMANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
1. GOVERNING BUILDING STANDARDS TO BE THE 2025 CALIFORNIA BUILDING CODE.
 2. GOVERNING ELECTRICAL STANDARDS TO BE THE "NATIONAL ELECTRICAL CODE", 2025 EDITION, AS ADOPTED AND MODIFIED BY THE STATE OF CALIFORNIA IN REFERENCE TO THE 2025 CALIFORNIA ELECTRICAL CODE.
 3. GOVERNING MECHANICAL STANDARDS TO BE THE 2025 CALIFORNIA MECHANICAL CODE.
 4. GOVERNING PLUMBING STANDARDS TO BE THE 2025 CALIFORNIA PLUMBING CODE.
 5. GOVERNING FIRE REGULATION STANDARDS TO BE THE 2025 CALIFORNIA FIRE CODE AND NFPA 72.
 6. GOVERNING ENERGY STANDARDS TO BE THE CALIFORNIA ENERGY STANDARDS, 2025 EDITION.
 7. GOVERNING HEALTH AND SAFETY CODE TO BE THE 2025 CALIFORNIA HEALTH AND SAFETY CODE.

DRAWING INDEX

Sheet List Table

Sheet Number	Sheet Title
E0.0	COVER SHEET
E1.1	SITE PLAN - ELECTRICAL
E1.2	ENLARGED FLOOR PLANS - ELECTRICAL
E2.1	ONE LINE DIAGRAMS
E2.2	ATS WIRING DIAGRAM
E3.1	DETAILS
S1	STRUCTURAL DETAILS

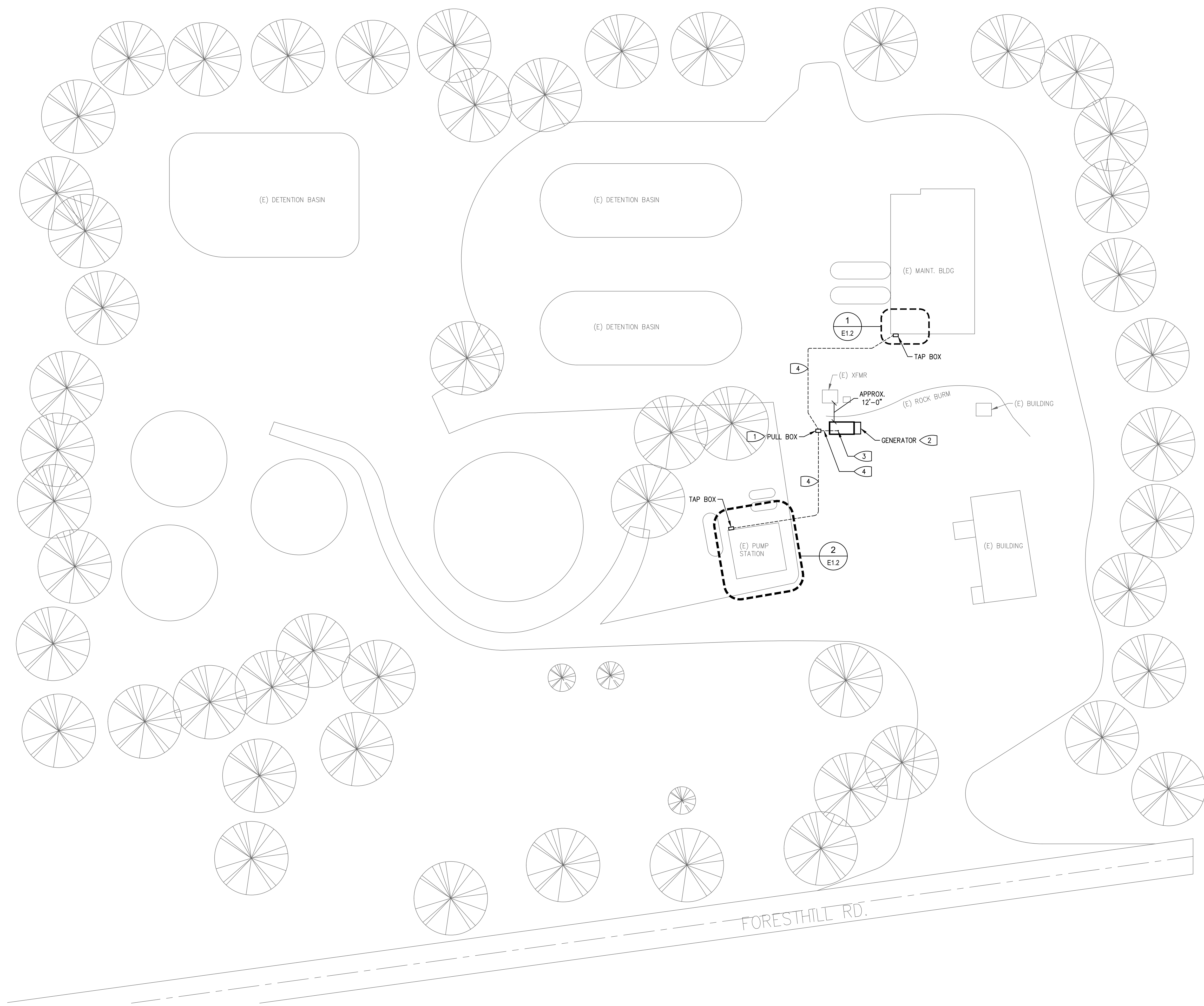
FORESTHILL PUD GENERATOR REPLACEMENT

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COVER SHEET

Date 3/24/2026
Scale AS SHOWN
Drawn JM
Job 25.016
Sheet

E0.0



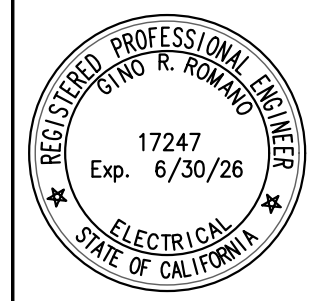
SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR REFERENCE ONLY.
2. REFER TO ONE LINE DIAGRAM - NEW WORK **2/E2.1** FOR FEEDER CONDUIT AND CONDUCTOR SIZES.

KEYED NOTES:

- 1 PROVIDE B1730 TRAFFIC RATED UNDERGROUND PULL BOX.
- 2 OWNER FURNISHED CONTRACTOR INSTALLED (OFCI) 275KVA GENERATOR WITH BELLY TANK AND ENCLOSURE. LOCATION SHOWN IS A GENERAL LOCATION. COORDINATE EXACT LOCATION WITH OWNER IN FIELD PRIOR TO ROUGH-IN. REFER TO STRUCTURAL PLANS FOR CONCRETE PAD AND GENERATOR MOUNTING DETAILS. REFER TO STRUCTURAL SHEET S1 FOR CONCRETE PAD AND GENERATOR ANCHORAGE INFORMATION.
- 3 COORDINATE EXACT LOCATION OF CONDUIT STUB-UPS WITH CONCRETE PAD OPENING PRIOR TO ROUGH-IN.
- 4 IN ADDITION TO FEEDERS SPECIFIED IN ONE LINE DIAGRAM PROVIDE 1" C FOR CONTROL WIRING PER ATS WIRING DIAGRAM **1/E2.2**.

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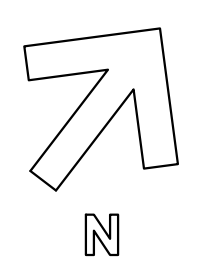
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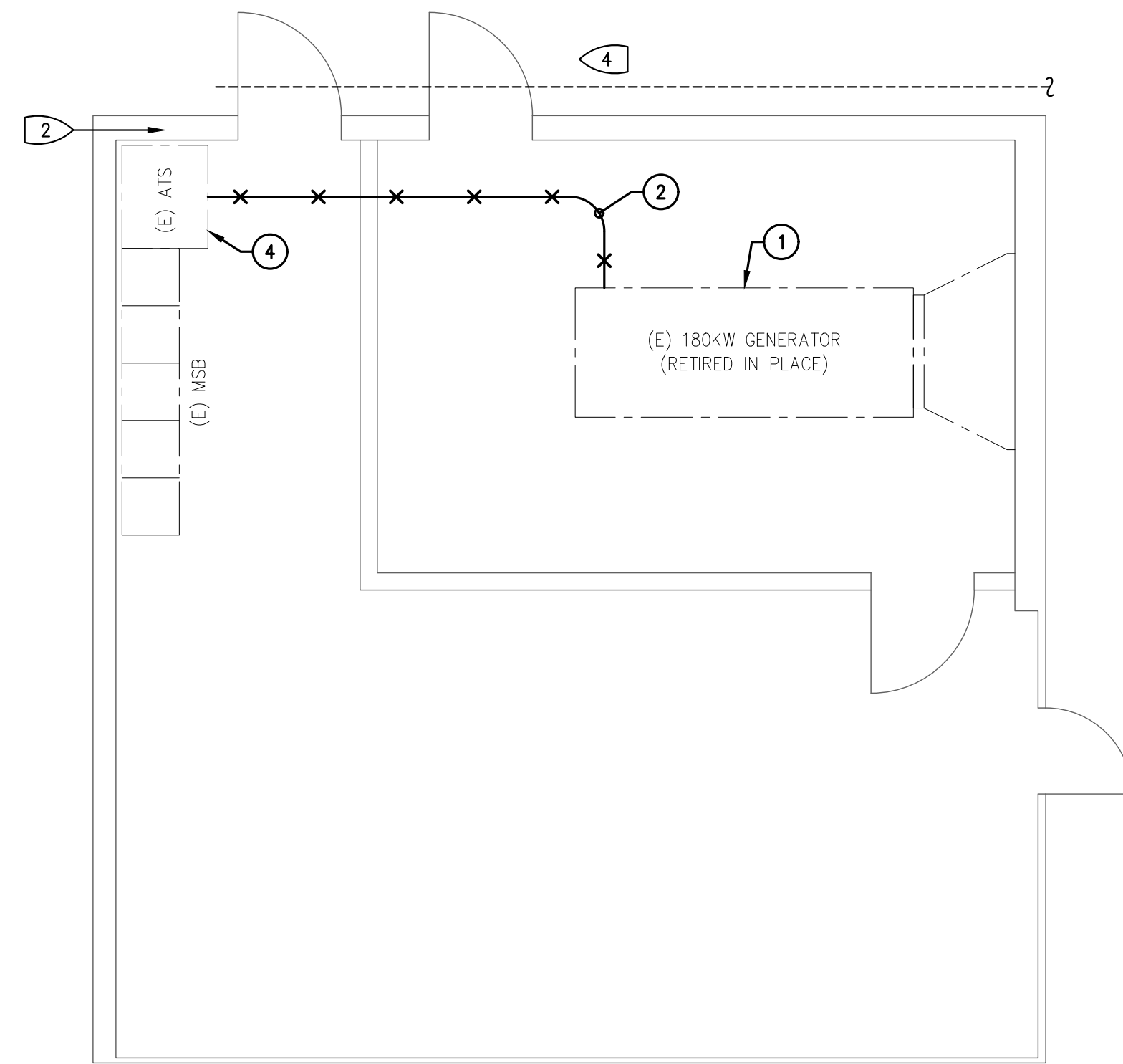
SITE PLAN - ELECTRICAL

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 Scale AS SHOWN
 Drawn JM
 Job 25.016
 Sheet

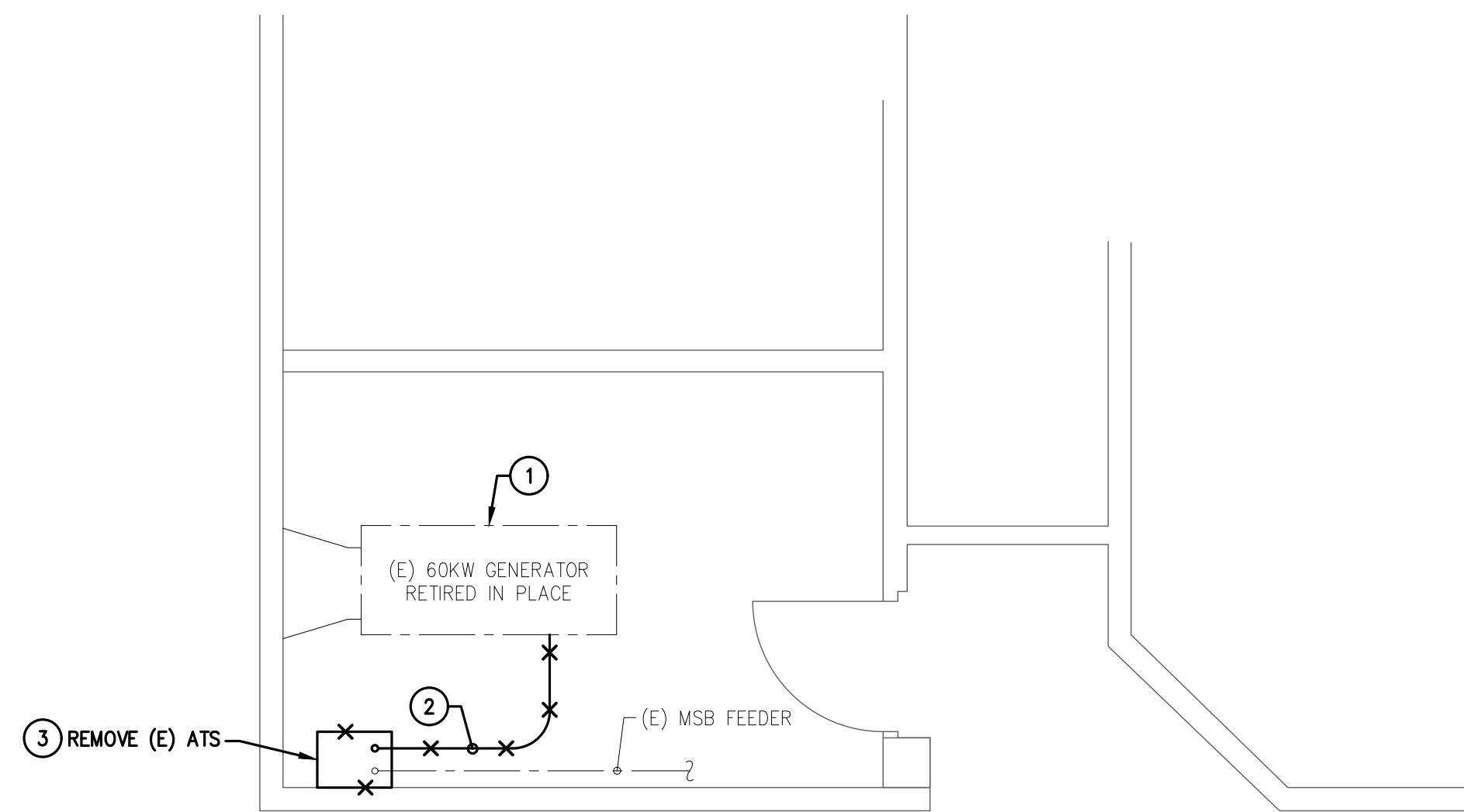
E1.1

1 SITE PLAN - ELECTRICAL
 APPROX. SCALE: 1" = 30'

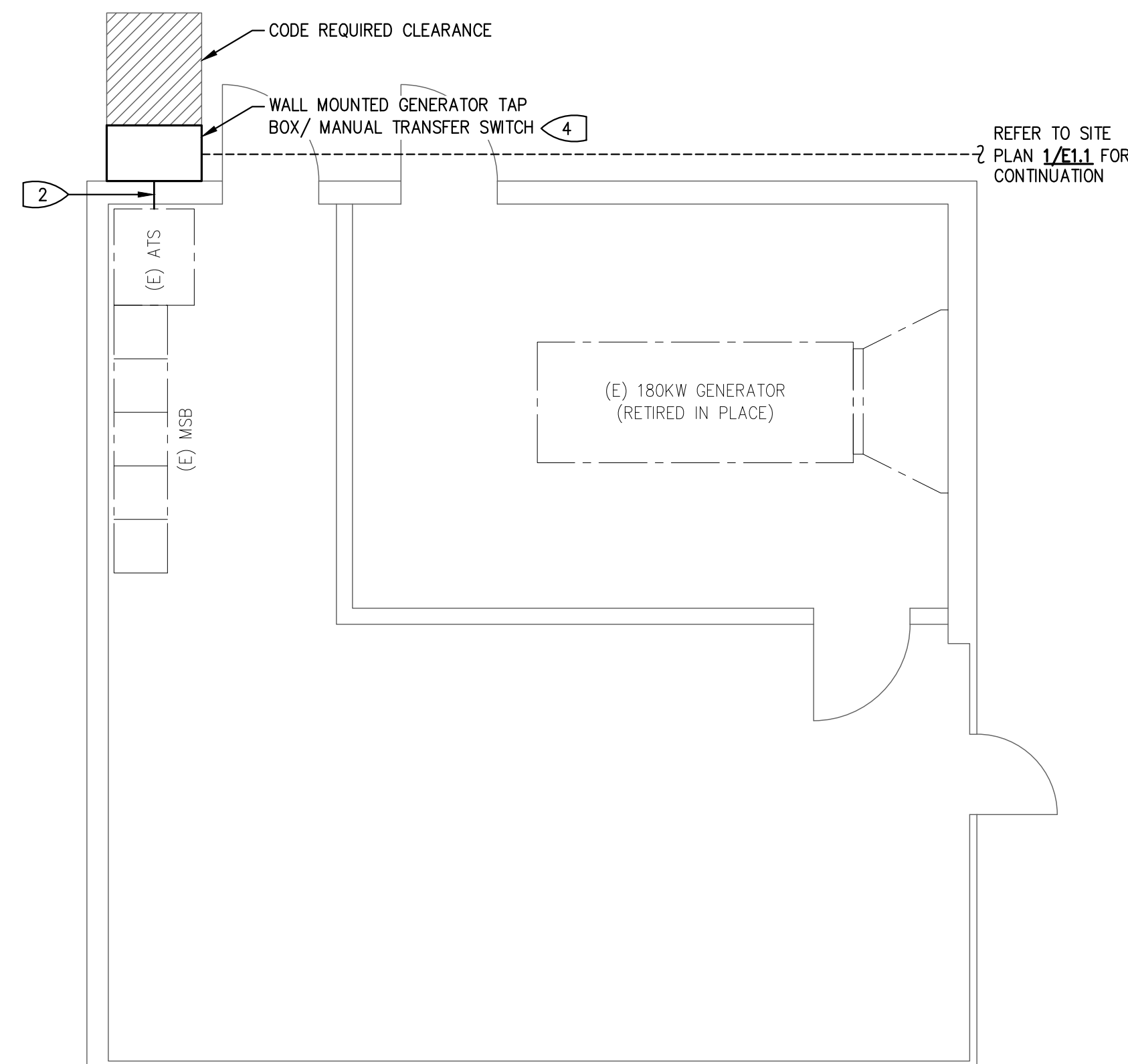




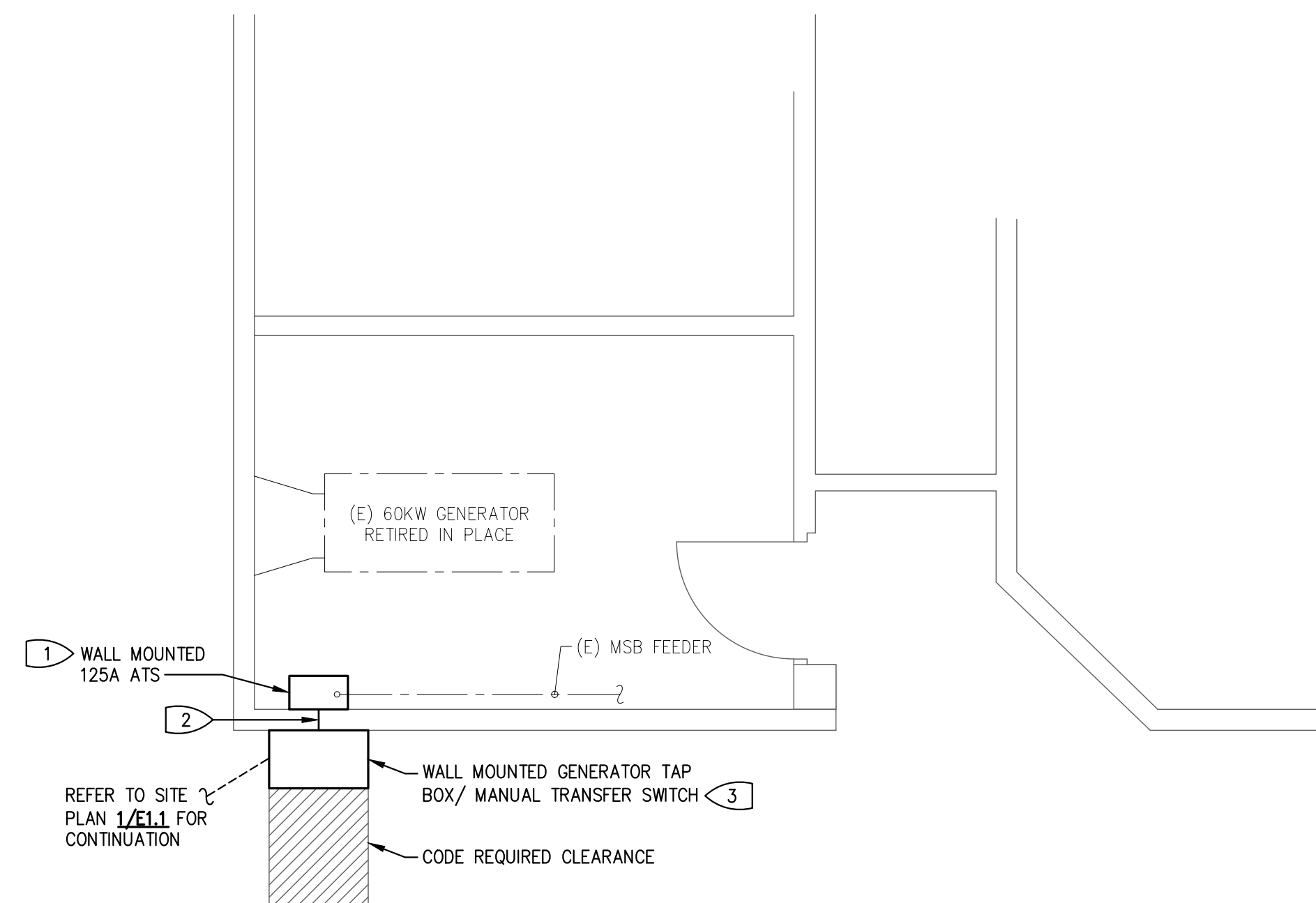
3 PUMP STATION - DEMOLITION
SCALE: 1/4" = 1'-0"



1 PARTIAL MAINTENANCE BLDG - DEMOLITION
SCALE: 1/4" = 1'-0"



4 PUMP STATION - ELECTRICAL
SCALE: *****



2 PARTIAL MAINTENANCE BLDG - ELECTRICAL
SCALE: 1/4" = 1'-0"

SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR REFERENCE ONLY.
2. REFER TO ONE LINE DIAGRAM - NEW WORK **2/E2.1** FOR FEEDER CONDUIT AND CONDUCTOR SIZES.

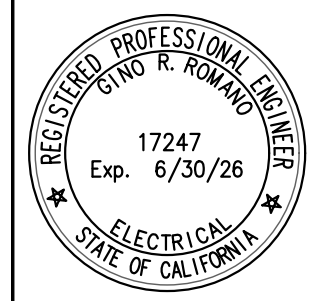
DEMOLITION KEYED NOTES:

1. EXISTING GENERATOR TO BE DISCONNECTED AND RETIRED IN PLACE.
2. REMOVE EXISTING GENERATOR FEEDER CONDUCTORS BACK TO ATS.
3. REMOVE EXISTING ATS. PROTECT EXISTING FEEDER TO EXISTING BUILDING'S MAIN SWITCHBOARD FOR REUSE. CUT EXISTING UNUSED.
4. EXISTING ATS TO REMAIN. PROTECT EXISTING ATS FOR REUSE.

KEYED NOTES:

1. OWNER FURNISHED CONTRACTOR INSTALLED (OFC) ATS. LOCATE ATS TO INTERCEPT EXISTING FEEDER TO EXISTING BUILDING'S MAIN SWITCHBOARD. CONNECT EXISTING FEEDER TO NEW ATS.
2. RUN CONDUIT THROUGH EXISTING WAL FROM BACK OF TAP BOX INTO ATS.
3. PROVIDE ESL #3141-M TRIPLESWITCH, 3-WAY MANUAL TRANSFER SWITCH WITH 125A BREAKERS.
4. PROVIDE ESL #3141-M TRIPLESWITCH, 3-WAY MANUAL TRANSFER SWITCH WITH 400A BREAKERS.

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**ENLARGED FLOOR PLANS -
ELECTRICAL**

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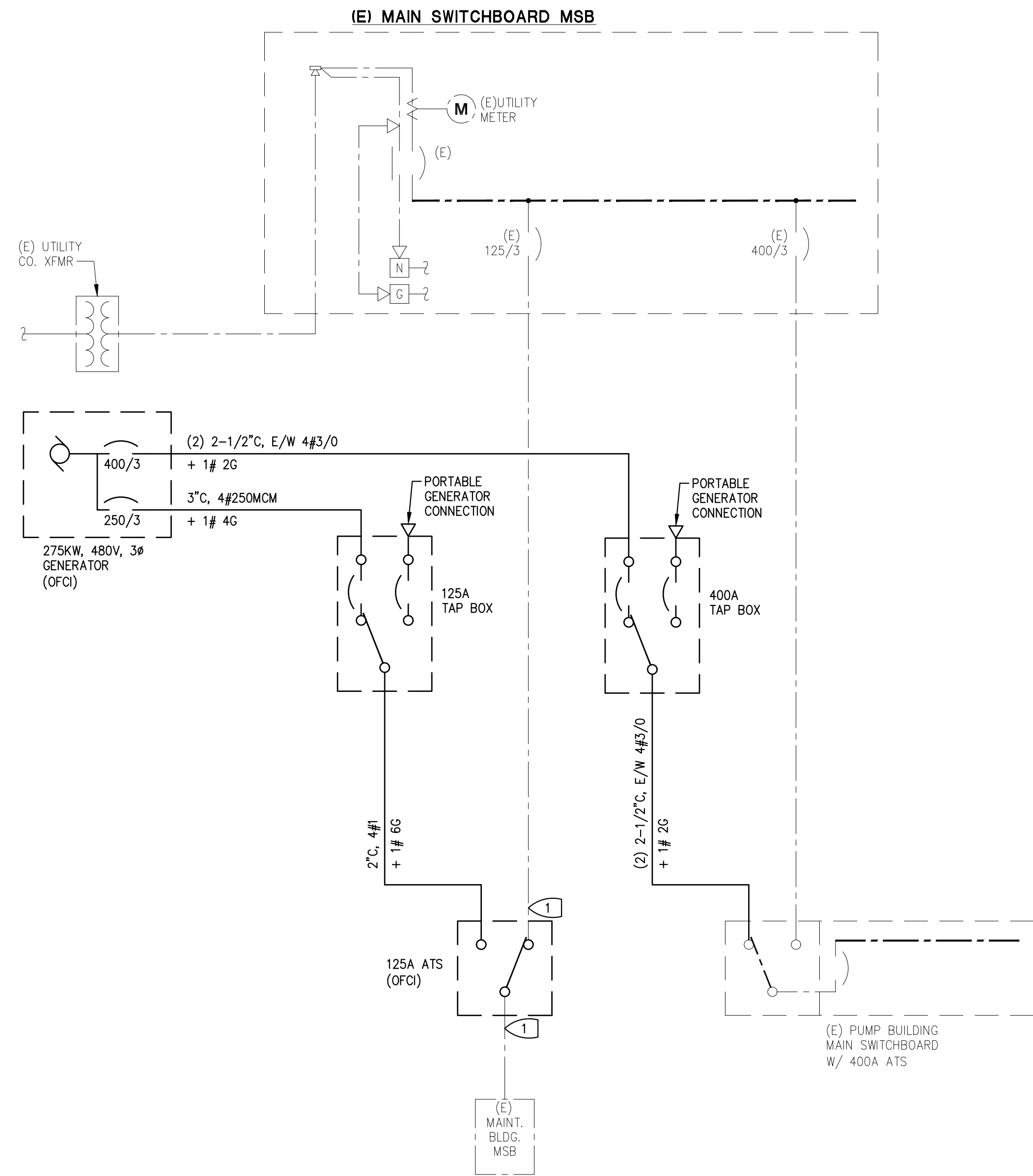
E1.2

SHEET NOTES:

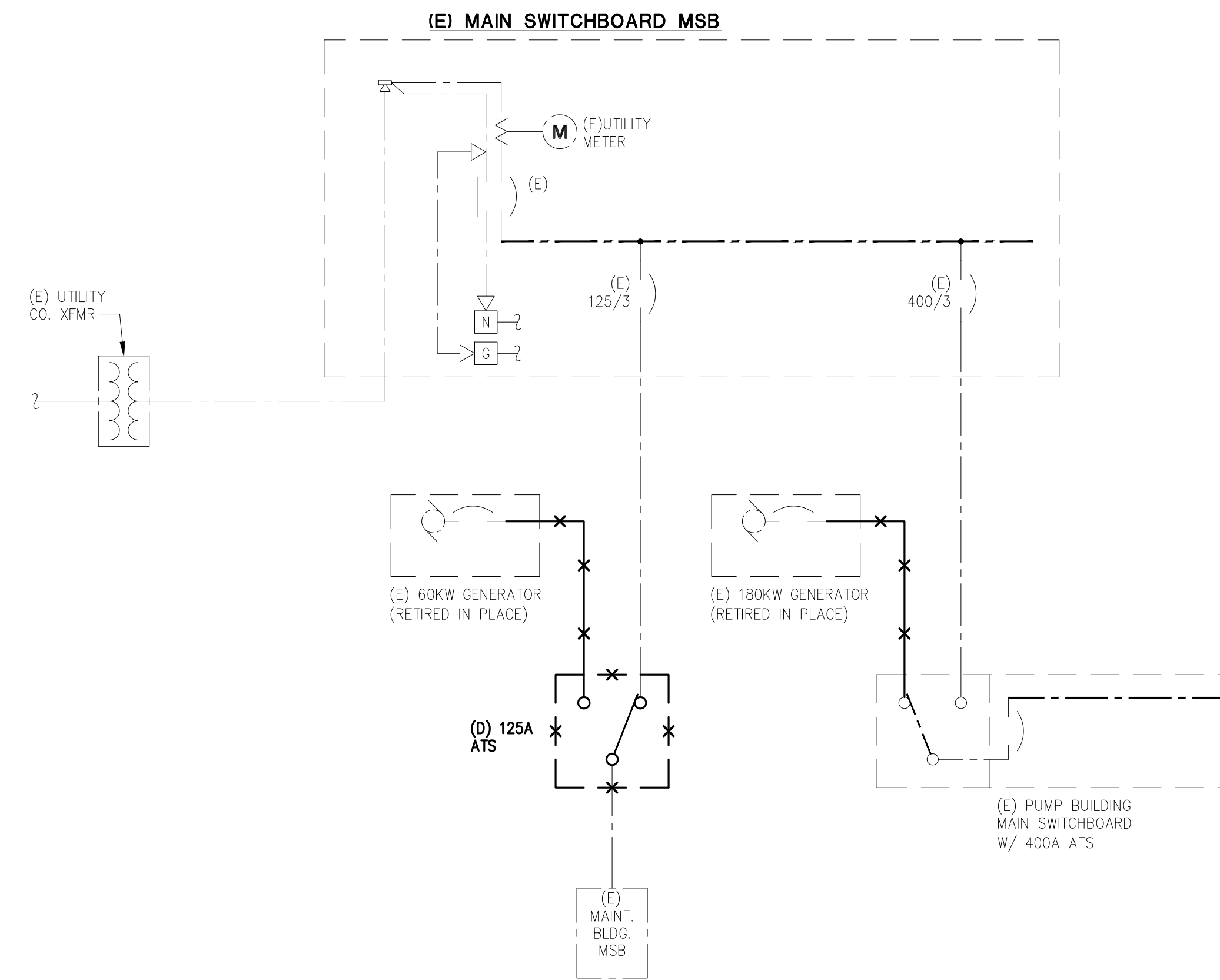
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR REFERENCE ONLY.
2. ALL CONDUCTORS SHALL BE COPPER WITH XHHW-2 INSULATION.

KEYED NOTES:

- 1 RECONNECT EXISTING FEEDER TO NEW AUTOMATIC TRANSFER SWITCH (ATS).

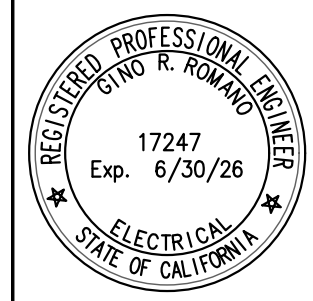


2 ONE LINE DIAGRAM - NEW WORK
SCALE: NONE



1 ONE LINE DIAGRAM - DEMOLITION
SCALE: NONE

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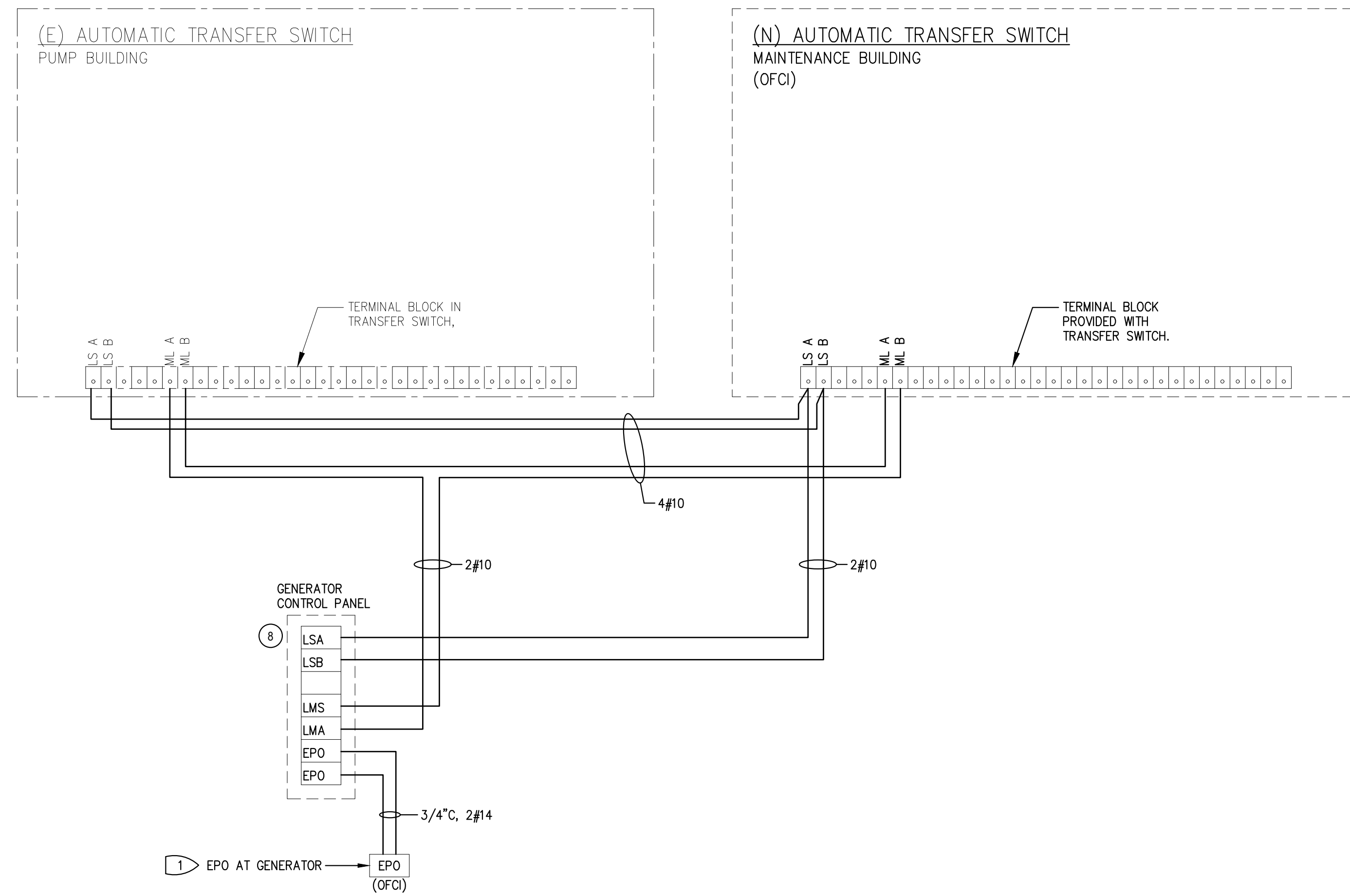
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ONE LINE DIAGRAMS

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Sheet	

E2.1



AUTOMATIC TRANSFER SWITCH SETTINGS

MOMENTARY OUTAGE:	STANDARD FEATURE: TIME DELAY ON ENGINE STARTING, ADJUSTABLE 0 TO 6 SECONDS. SET TO ONE (1) SECOND DELAY ON COMMERCIAL POWER FAILURE BEFORE STARTING STANDBY GENERATOR.
TRANSFER TO EMERGENCY:	STANDARD FEATURE: ADJUSTABLE 0 TO 60 MIN. SET TO ONE (1) SECOND DELAY AFTER ENGINE START TO ALLOW STANDBY ENGINE TO STABILIZE PRIOR TO TRANSFER.
RETRANSFER TO NORMAL: MINIMUM RUN TIME	STANDARD FEATURE: ADJUSTABLE 0 TO 60 MIN. SET ATS TO FIFTEEN(15) MINUTE MIN. RUN TIME AFTER COMMERCIAL POWER IS RESTORED.
GENERATOR COOL DOWN TIME:	SET TO FIVE (5) MINUTE ENGINE RUN AFTER TRANSFER BACK TO COMMERCIAL POWER. ALLOWS ENGINE FLUIDS, TEMPERATURE, TURBO, ETC.. TO STABILIZE.

- DEFINITIONS**
- PF = POWER FAILURE LOOP (PARALLEL CIRCUIT)
 - LS = LOOP START (PARALLEL CIRCUIT)
 - POA = ATS PROPER OPERATION LOOP (SERIES CIRCUIT)
 - ER = ENGINE RUN LOOP
 - ML = MECHANICAL UNIT LOCKOUT (SERIES CIRCUIT)
 - ENC = ETHERNET CONNECTION
 - LMS = LOAD MANAGEMENT LOAD SHED RELAY
 - LMA = LOAD MANAGEMENT LOAD ADD RELAY
 - MCP = MASTER CONTROL PANEL
 - RA = REMOTE ANNUNCIATOR
 - BMS = BUILDING MANAGEMENT SYSTEM - PANEL 'TCP'
 - STP = SHIELDED TWISTED PAIR, BELDEN 9841
 - EPO = EMERGENCY POWER OFF BUTTON
 - OFCI = OWNER FURNISHED CONTRACTOR INSTALLED

- NOTE:**
1. INSTALL SITE CONRTOL WRING IN 1" CONTROL CONDUITS AS SPECIFIED ON SITE PLAN **1/ELL**.
 2. ALL WIRING COPPER TYPE THWN-2. ALL CONDUCTORS SHALL BE LABELED.

1 ATS WIRING DIAGRAM
SCALE: NO SCALE

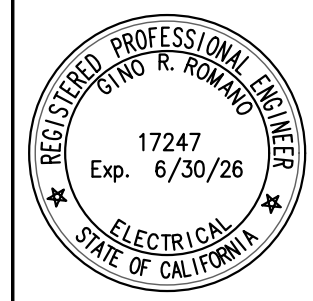
SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR REFERENCE ONLY.

KEYED NOTES:

1. MOUNT REMOTE EMERGENCY POWER OFF (EPO) BUTTON ON GENERATOR ENCLOSURE WITH CLEAR WEATHERPROOF COVER AND SIGNAGE: "EMERGENCY POWER OFF" IN 1-INCH HIGH WHITE LETTERS ON RED BACKGROUND. COORDINATE EXACT BUTTON LOCATION ON ENCLOSURE WITH OWNER PRIOR TO ROUGH-IN.

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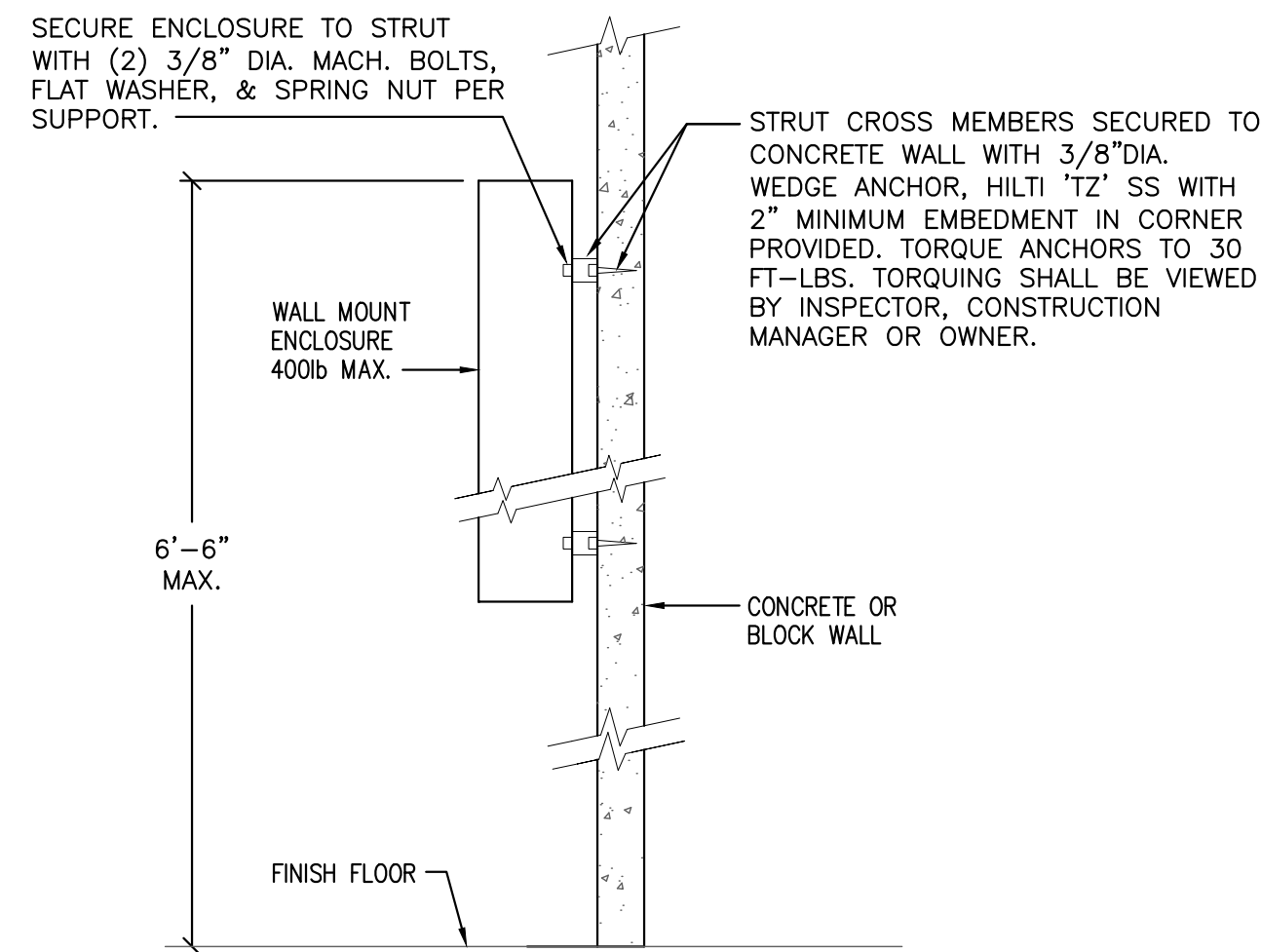
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ATS WIRING DIAGRAM

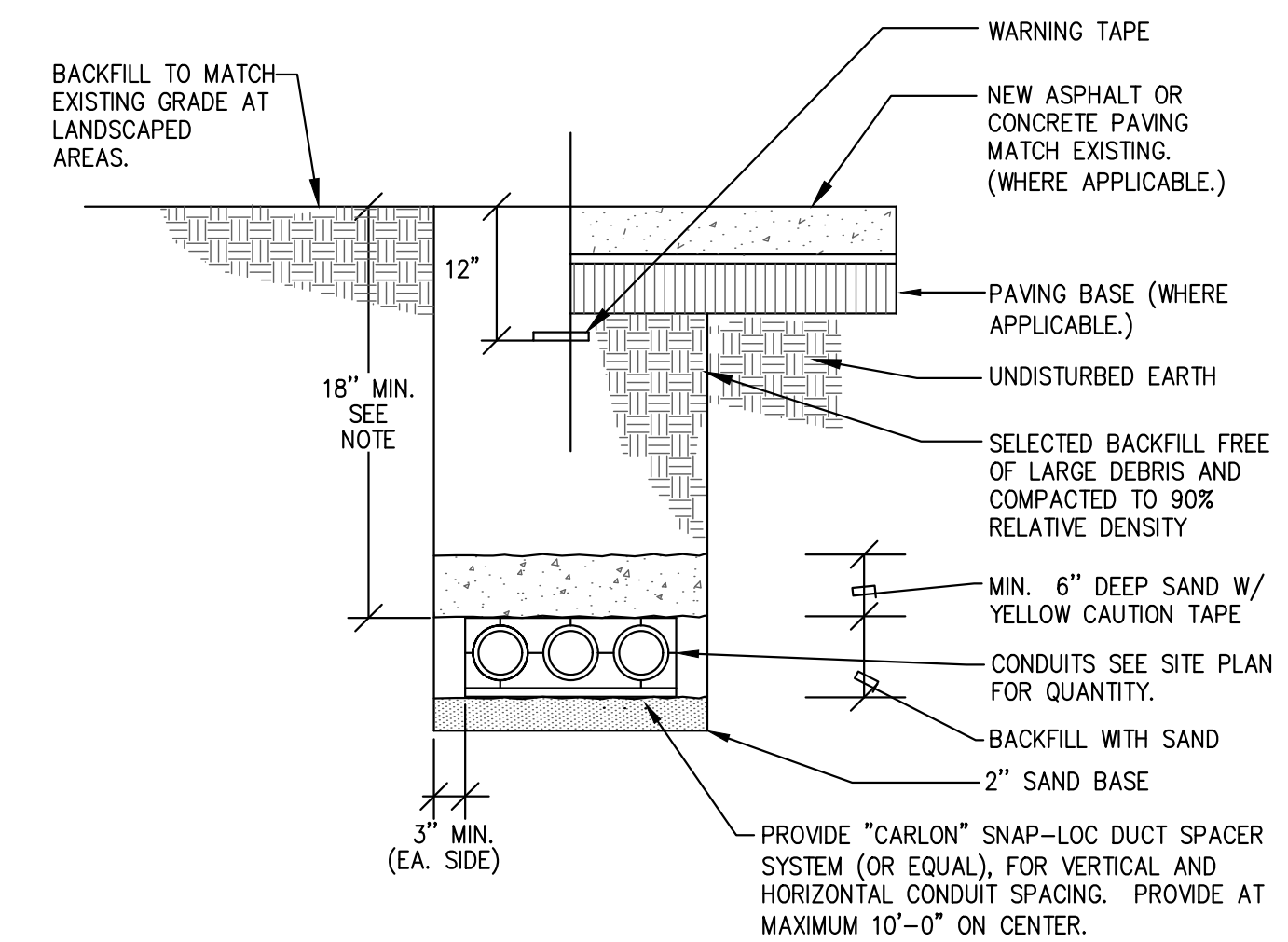
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E2.2



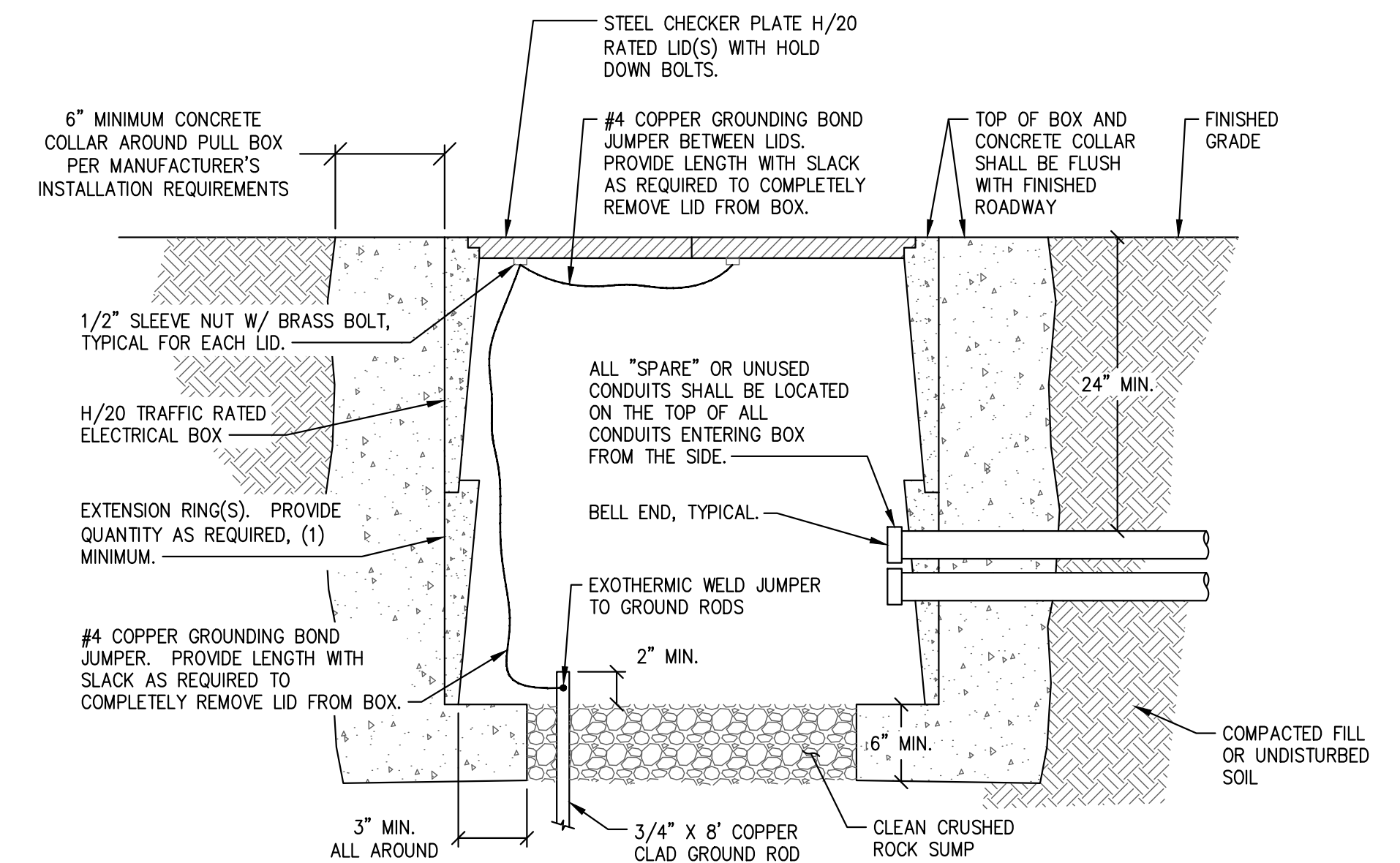
- NOTE:
1. STRUTS SHALL BE HOT DIPPED GALVANIZED.
 2. ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

3 ENCLOSURE WALL MOUNTING DETAIL
SCALE: NONE



- NOTE:
1. BURIAL DEPTH SHALL BE A MINIMUM OF 24" UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS PER CEC TABLE 300.5.

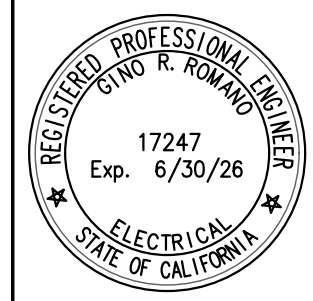
1 TYPICAL TRENCH DETAIL
SCALE: NONE



- NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
 2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TYPICAL H/20 TRAFFIC RATED PULL BOX
SCALE: NONE

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DETAILS

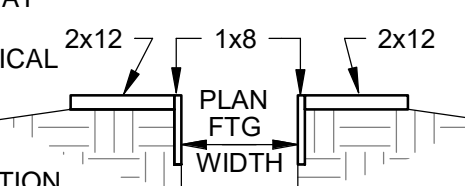
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Drawn	JM
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Sheet	E3.1

GENERAL NOTES
1005N001

- INTERPRETATION OF DRAWINGS & SPECIFICATIONS
 - WHERE SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT, THEY ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS.
 - IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL BE IDENTICAL OR SIMILAR TO LIKE CASES OF CONSTRUCTION THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
 - SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD THE CONTRACTOR ELECT TO PROCEED, THEY ARE DOING SO AT THEIR OWN RISK.
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- SHOP DRAWING NOTE
 - WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, SUBMITTALS SHALL BE ELECTRONIC PDF FORMAT.
 - THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL THE CONTRACTOR INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE CONTRACTOR INTENDS TO USE ON A STAND ALONE SET OF DOCUMENTS. DUPLICATION OF DESIGN DOCUMENTS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
 - PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWING SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STRUCTURAL STEEL, REINFORCING STEEL, & GLUE-LAMINATED BEAMS.
 - PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
 - SHOP DRAWING SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
 - ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE".
 - SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.
- SAFETY NOTE:
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE CONSTRUCTION SAFETY REGULATIONS ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DRAWINGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.
- WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE OWNER (IF THEY ARE AVAILABLE).
- CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 2% OF THE BID FOR STRUCTURAL STEEL, MISC. IRON AND REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED AMOUNT TO REVERT TO THE OWNER UPON COMPLETION OF THE JOB.
- ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
- THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY LOCAL BUILDING OFFICIALS AND THE OWNER AND SIGNED BY THE STRUCTURAL ENGINEER.

FOUNDATIONS
2005N001

- THE BASIS OF DESIGN AND ALLOWABLE CAPACITIES OF THE FOUNDATION SYSTEM HAVE BEEN PROPORTIONED IN ACCORDANCE WITH THE PRESUMPTIVE ALLOWABLE BEARING PRESSURES IN THE CODE.
- FOUNDATIONS SHALL BEAR ON FIRM UNDISTURBED NATIVE SOIL OR SOIL COMPACTED TO 90% RELATIVE COMPACTION.
- ALL FILLING, BACKFILLING AND COMPACTION SHALL BE DONE UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER AND MUST BE COMPACTED TO THE MINIMUM DENSITY SPECIFIED.
- BOITOMS OF ALL FOUNDATIONS SHALL BE LEVEL.
- FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE EXCAVATIONS ARE STABLE (AS DETERMINED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER). OTHERWISE, FOUNDATIONS SHALL BE FULLY FORMED. USE MINIMUM PLANKING SHOWN TO PROTECT AGAINST SLOUGHING. AS REQUIRED, PLANKING DOES NOT REPLACE FORMWORK REQUIRED TO STABILIZE EXCAVATION.
- NOTIFY THE STRUCTURAL ENGINEER 48 HOURS BEFORE CASTING FOUNDATIONS.



CONCRETE

- CONCRETE SHALL ATTAIN 28 DAY COMPRESSIVE STRENGTH AS REQUIRED INNOTE #22. SLUMP SHALL BE 4 INCHES ± 1 INCH WITHOUT ADMIXTURES UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
- CONCRETE MIX DESIGNS SHALL BE PREPARED ACCORDING TO ACI 318 CHAPTER 26.4 AND ACI 301 SECTION 4. REVIEWED BY OWNER'S TESTING LABORATORY AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- CEMENTITIOUS MATERIALS:
 - CEMENT SHALL CONFORM TO ASTM C-150 TYPE II OR V.
 - FLY ASH SHALL CONFORM TO ASTM C-618. MAX. QUANTITY OF FLY ASH BYPASS SHALL BE 25% UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
 - SLAG SHALL CONFORM TO ASTM C989. MAX. QUANTITY OF SLAG BY MASS SHALL BE 25% UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
 - TERNARY SYSTEMS ARE PROHIBITED.
- CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE AND ASTM C-330 FOR LIGHTWEIGHT CONCRETE.
- NON-SHRINK GROUT OR DRYPACK SHALL CONSIST OF A PREMIXED NON-METALLIC FORMULA.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 UNO. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706 GRADE 60. CONTRACTOR SHALL SUBMIT REBAR MILL CERTIFICATES.
- ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 LATEST EDITION AND SHALL BE CONTINUOUSLY INSPECTED BY AQUALIFIED LABORATORY. CONTRACTOR SHALL FURNISH WPS FOR ALL REBAR WELDING TO THE LABORATORY.
- REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
- WIRE FABRIC SHALL CONFORM TO ASTM A1064.
- DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF BARS LISTED AND DENOTE CLEAR COVERAGE. NON-PRESTRESSED, CAST-IN-PLACE CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO:

CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS)-----	3"
CONCRETE EXPOSED TO GROUND OR WEATHER BUT PLACED IN FORMS: #5 AND SMALLER-----	1-1/2"
#6 AND LARGER-----	2"
BEAMS & COLUMNS (TIES)-----	1-1/2"
BEAMS & COLUMNS (MAIN REINFORCING)-----	2"
CAST-IN-PLACE WALLS (EXTERIOR FACE & SOIL SIDE)-----	SEE ABOVE
CAST-IN-PLACE WALLS (INTERIOR FACE-#11 & SMALLER)-----	3/4"
SLABS (ON GROUND)-----	2"
- SPICES IN CONTINUOUS REINFORCEMENT SHALL BE LAPPED UNO. SEE SCHEDULE THIS SHEET. SPICES IN ADJACENT BARS SHALL BE GREATER THAN 5'-0" APART. SPICE CONTINUOUS BARS IN SOIL-BEARING GRADE BEAMS, STRUCTURAL SLABS ON GRADE AND MAT FOUNDATIONS AS FOLLOWS UNO. TOP BARS AT CENTERLINE OF SUPPORT, BOTTOM BARS AT MID-SPAN. SPICE CONTINUOUS BARS IN ELEVATED SLABS AND BEAMS, ETC. AS FOLLOWS UNO. TOP BARS AT MID-SPAN, BOTTOM BARS AT CENTERLINE OF SUPPORT. ALL BARS SIZE #14 AND LARGER SHALL BE CONTINUOUS FOR FULL LENGTH SHOWN OR SPICED WITH MECHANICAL COUPLERS AS NOTED IN DETAILS. SPICES IN WWF SHALL BE 1-1/2 MESHES WIDE.
- THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN THE LARGER OF BAR DIAMETER, 1", OR 33% GREATER THAN THE MAXIMUM AGGREGATE SIZE (NOMINAL), WHICHEVER IS GREATEST. THIS REQUIREMENT ALSO APPLIES TO THE CLEAR SPACING BETWEEN DIFFERENT LAYERS OF PARALLEL BARS AND TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPICE AND ADJACENT SPICES OR BARS.
- ALL HOOKS SHALL BE STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED. AT WALLS, PROVIDE HOOKS AT ENDS OF ALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS, UNO.
- CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SAND BLASTING, OR RAKING THE SURFACE TO PROVIDE 1/4" DEEP DEFORMATIONS.
- REMOVE ALL DEBRIS FROM FORMS BEFORE CASTING ANY CONCRETE.
- REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
- ANCHOR BOLTS (AB'S) CAST IN CONCRETE FOR WALL SILL AND LEDGER APPLICATIONS SHALL BE HEADED BOLTS WITH CUT THREADS CONFORMING TO ASTM F1554, UNO.
- CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE OF CONCRETE AND PROJECT CONDITIONS. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES HOPPERS AND CHUTES OR TRUNKS OF VARIABLE LENGTHS SHALL BE USED SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 6 FEET.
- NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
- PROVIDE #4x4'-0" DIAGONAL REINFORCING AT EACH REINFORCING LAYER OF SLAB AT ALL RE-ENTRANT CORNERS TYPICAL UNO.
- NOTIFY STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS BEFORE PLACING ANY CONCRETE.
- CONCRETE STRENGTHS & MIX PROPERTIES:

ITEM	28 DAYS	MAX AGGR SIZE	WEIGHT	MAX W/CM*
A. FOUNDATIONS, ELEVATOR PITS, TIE BEAMS	3000 PSI	1-1/2"	NW	0.58
B. SLAB ON GRADE	3500 PSI	1"	NW	0.45
C. COLUMNS, BEAMS, WALLS, ELEVATED SLABS, PILE CAPS	4000 PSI	1"	NW	0.50
D. LW CONG FILL OVER DECK	3500 PSI	3/4"	NW	0.52
E. LW CONG FILL OVER DECK	3000 PSI	3/4"	LW	0.52

* W/CM = WATER : CEMENTITIOUS MATERIAL RATIO

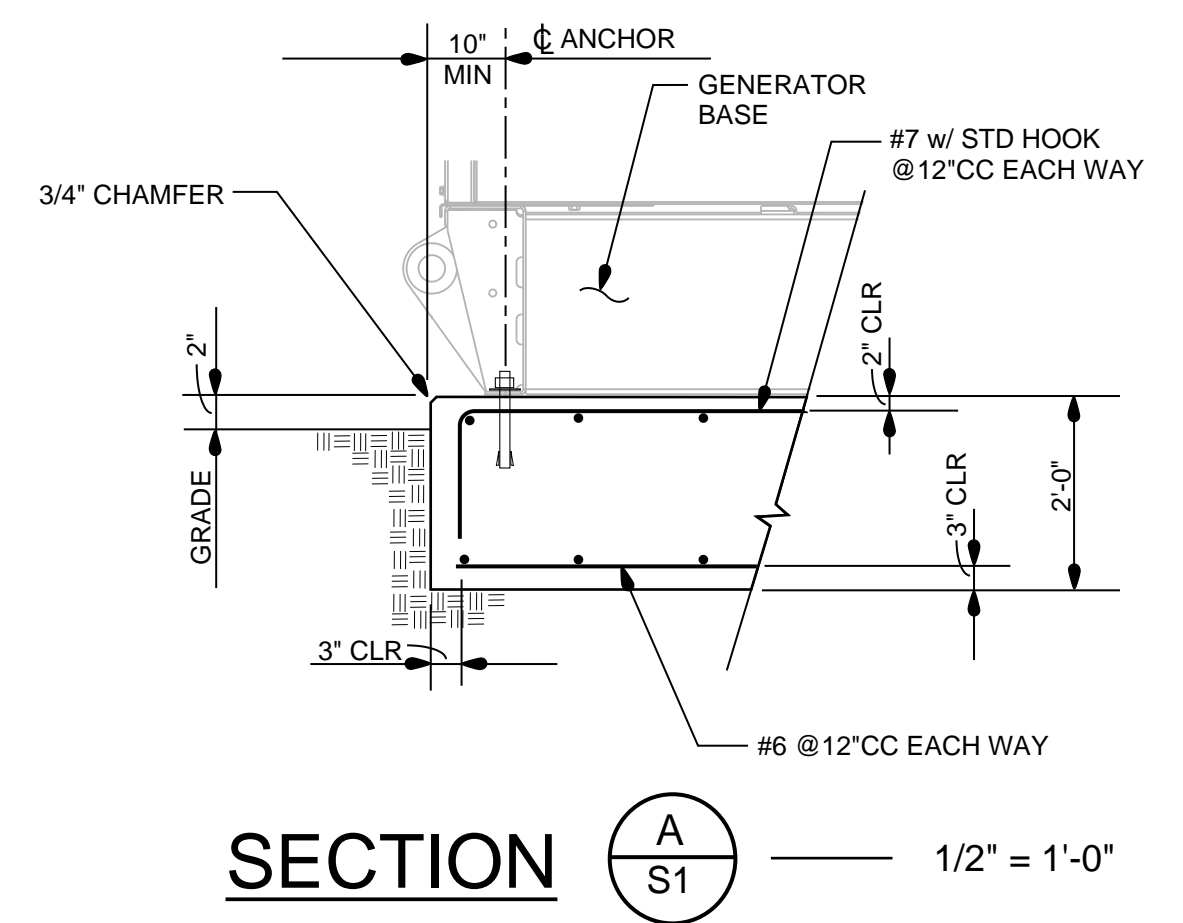
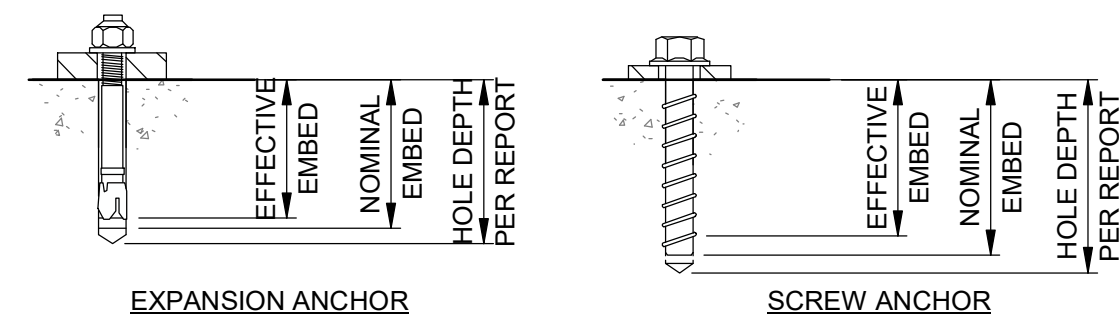
DESIGN CRITERIA
1005N002

- CODES AND STANDARDS
 - 2025 CALIFORNIA BUILDING CODE (CBC)
 - ASCE 7-22
 - ACI 318-19
 - AISC 360-22, 341-22, 358-22
 - AISI S100-16 w/ S2-20, S240-20, S400-20
 - TMS 402/602-2022
 - 2024 NDS, 2018 SDPWS
- VERTICAL LOADS
 - SOLAR ZONE ROOF DEAD LOAD = PSF (INCLUDES PSF FUTURE PV LOAD)
 - ROOF LIVE LOAD = PSF
 - FLOOR LIVE LOAD = PSF
 - FLOOR PARTITION LIVE LOAD = PSF
 - CORRIDORS = PSF
 - LIVE LOADS ARE REDUCED WHERE PERMITTED BY CODE.
- SOILS VALUES
 - ALLOWABLE SOILS PRESSURE
 - DL = PSF
 - DL + LL = PSF
 - DL + LL + WIND/SEISMIC = PSF
 - FOOTING
 - MINIMUM DEPTH =
 - MINIMUM WIDTH =
- LATERAL LOADS
 - SEISMIC
 - SITE CLASS = C_s =
 - S_s = ; S_{ds} =
 - S₁ = ; S₀₁ =
 - R = ; I_e =
 - Q₀ = ; C_p =
 - I_r = PER ASCE 7-22 SECT 13.1.3
 - RISK CATEGORY:
 - SEISMIC DESIGN CATEGORY:
 - SEISMIC BASE SHEAR = KIPS (NS DIR.)
 - SEISMIC FORCE RESISTING SYSTEM:
 - ANALYSIS PROCEDURE:
 - WIND:
 - V = MPH
 - RISK CATEGORY:
 - EXPOSURE CATEGORY:
 - G_{CN} =

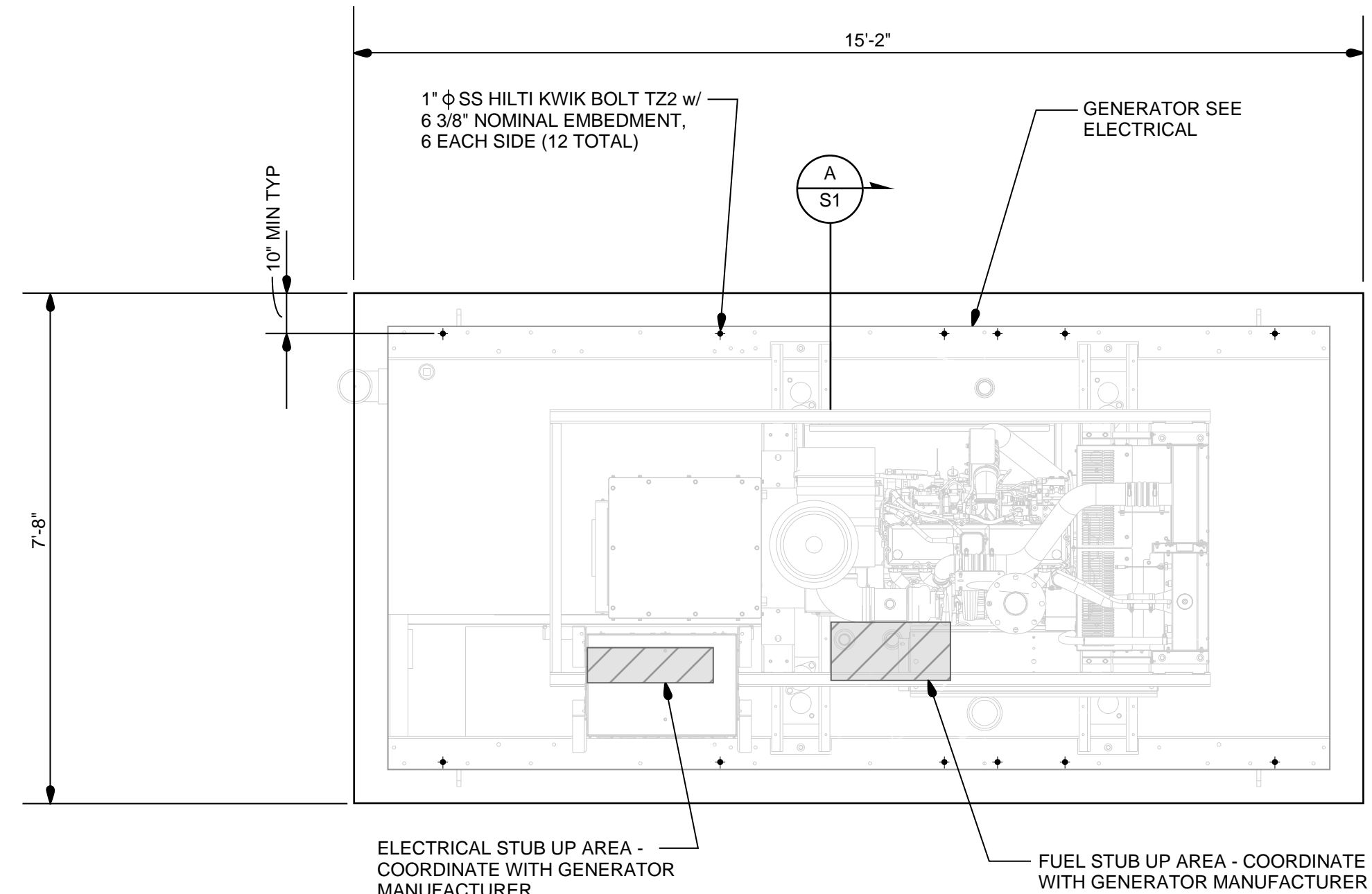
POST-INSTALLED ANCHORS
305SN001

- POST-INSTALLED ANCHORS SHALL BE AS INDICATED IN THE SECTIONS OR DETAILS. SEE LIST BELOW FOR CORRESPONDING EVALUATION REPORT REFERENCE. NOT ALL ANCHORS PROVIDE EQUIVALENT PERFORMANCE AND REQUESTS FOR SUBSTITUTION MAY BE SUBMITTED AND WILL BE EVALUATED PER THE GENERAL NOTES. POTENTIALLY ACCEPTABLE SUBSTITUTIONS ARE LISTED BELOW.
- FOR CONCRETE CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE:
 - ADHESIVE ANCHORS FOR THRD ROD & REBAR:
 - HILTI HIT-HY 200 V3 PER ESR-4868
 - HILTI HIT-RE500 V3 PER ESR-3814
 - SIMPSON SET-3G PER ESR-4057
 - DEWALT PURE 110+ ESR-3298
 - EXPANSION ANCHORS:
 - HILTI KB-T22 PER ESR-4266
 - SIMPSON STRONG-BOLT 2 PER ESR-3037
 - DEWALT POWER-STUD+ SD2, SD4 OR SD6 AS NOTED PER ESR-2502
 - SCREW ANCHORS:
 - HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3027
 - SIMPSON TITEN HD PER ESR-2713
 - DEWALT SCREWBOLT+ PER ESR-3889
- ANCHOR TYPE, SIZE & EMBEDMENT SHALL BE AS INDICATED IN DRAWINGS. POST-INSTALLED ANCHORS FOR REPAIR SHALL BE EVALUATED ON A CASE BY CASE BASIS. NOTIFY STRUCTURAL ENGINEER FOR REPAIRS.
- EMBEDMENT DEPTHS SPECIFIED IN THE DRAWINGS REFER TO NOMINAL EMBEDMENT FOR EXPANSION AND SCREW ANCHORS.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE EVALUATION REPORT. PROVIDE MINIMUM EMBEDMENT PROVIDED IN THE EVALUATION REPORT UNLESS NOTED OTHERWISE.
- PROVIDE SPECIAL INSPECTION AS INDICATED IN THE STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING AND THE EVALUATION REPORT.
- WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. DO NOT INSTALL ANCHORS WITHIN 1 1/2" OF CMU HEAD JOINTS. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
- THE CONCRETE SHALL HAVE ATTAINED ITS MINIMUM DESIGN STRENGTH PRIOR TO INSTALLATION OF THE ANCHORS.
- ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION PER ACI 318, CHAPTER 17.
- IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE ANCHOR INSTALLATION IS 45 DEGREES FARENHEIT OR LOWER, COLD WEATHER ADHESIVE IS REQUIRED.
- CONTRACTOR TO VERIFY w/ EVALUATION REPORT FOR ANCHOR INSTALLATION IN WET CONDITIONS AND/OR TEMPERATURE LIMITATIONS. DO NOT INSTALL WHERE PROHIBITED BY EVALUATION REPORT.
- THE INSPECTION OF THE ANCHORS SHALL BE DONE BY A QUALIFIED INSPECTION AGENCY AND A REPORT OF THE INSPECTION RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER.

INSTALLED ANCHOR DIAGRAMS



**PRELIMINARY
NOT FOR
CONSTRUCTION**

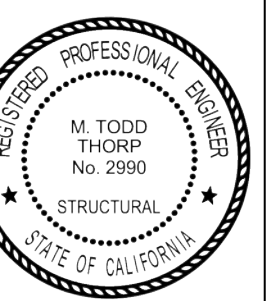


FOUNDATION PLAN 1/2" = 1'-0"

REVISIONS	BY

7750 College Town Dr. Ste. 101
Sacramento, CA 95826
Tel (916) 447-2841
www.petersons.com
Job no. 231016
consulting mechanical and electrical engineers

**FORESTHILL PUD
GENERATOR REPLACEMENT**
25985 FORESTHILL RD., FORESTHILL, CA 95631



Date	3/24/2026
Scale	AS SHOWN
Drawn	MTT
Job	25.016
Sheet	S1



Item 7.5

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: Conflict Waiver for potential 2026 Foresthill Public Utility District water transfer to Westlands Water District

Summary

Foresthill Public Utility District is currently discussing a potential water transfer agreement with Westlands Water District. District legal counsel, Kronick, Moskovitz, Tiedemann & Girard, also provides legal services to Westlands on unrelated matters. Because of this, legal ethics rules require both parties to be informed of the situation and provide written consent before Kronick can continue representing both agencies in connection with this transaction.

This process is commonly referred to as a conflict waiver. It does not mean there is a problem with the transaction, but simply ensures transparency and confirms that both parties understand the relationship and agree to move forward. Separate attorneys within the firm would handle each client's matters, and protections are put in place to keep confidential information separate.

A draft conflict waiver letter has been provided in the Board packet for reference. Board review and acknowledgment of this process will allow staff and legal counsel to continue moving forward with discussions regarding the potential 2026 water transfer.

Recommendation

Receive the report, review the draft conflict waiver letter, and authorize the General Manager to execute the conflict waiver on behalf of the District if directed by the Board.



400 Capitol Mall, 27th Floor
Sacramento, CA 95814

T | 916.321.4500
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Eric N. Robinson
916.321.4576
erobinson@kmtg.com

May 22, 2024

2024 Waiver letter

VIA ELECTRONIC MAIL

Hank White
General Manager
FORESTHILL PUBLIC UTILITY DISTRICT
P.O. Box 266
Foresthill, California 95631
E-Mail: gm@foresthillpud.com

Re: Conflict waiver for potential 2024 Foresthill Public Utility District water transfer to Westlands Water District

Dear Mr. White:

Attorneys licensed by the State Bar of California (“State Bar”) are governed by its rules of professional conduct (“Rules”). One purpose of the Rules is to protect clients from adverse effects of attorneys representing clients with adverse interests.

As we have discussed, Kronick, Moskowitz, Tiedemann & Girard (“KMTG”) currently represents Foresthill Public Utility District (“FPUD”) as general counsel. In that regard, KMTG advises FPUD in legal issues associated with management of water developed by FPUD’s Sugar Pine Reservoir operations, including periodic water transfers regulated by the State Water Resources Control Board. FPUD has asked KMTG to provide counsel in connection with its potential sale of up to 2,000 acre-feet (“AF”) of stored water from Sugar Pine Reservoir for delivery in 2024 (“2024 Transfer Water”). FPUD staff has identified Westlands Water District (“Westlands”) as a potential buyer of Transfer Water in 2024 and has requested that KMTG provide counsel on the negotiation of a 2024 Transfer Water purchase and sale agreement with Westlands.

KMTG currently represents FPUD as general counsel on a wide range of matters, including on its water rights and periodic water transfers.

KMTG currently represents Westlands in a range of matters as special counsel, matters that do not involve water transfers. In past water transfers Westlands has typically been represented by its General Counsel on its potential purchase of supplemental water supplies in 2024 from third parties, like FPUD.

FPUD’s request for KMTG’s representation in FPUD’s 2024 Transfer Water negotiations with Westlands and KMTG’s current representation of Westlands in unrelated matters implicate the State Bar’s Rules. Rule 1.7 states in pertinent part: “A lawyer shall not, without informed written consent from each client and compliance with paragraph (d), represent a client if the representation is directly adverse to another client in the same or a separate matter.”

Under Rule 1.7, KMTG is required to disclose to all involved parties its requested representation of FPUD on the potential sale of its 2024 Transfer Water to Westlands, while KMTG continues representing Westlands on other, unrelated matters. The rule against concurrent representation of clients with adverse interests arises from a concern that counsel will have divided loyalties, and hence may not best represent the interests of one client in order to advance or protect the interests of another client. In that regard, it is important to recognize that the KMTG attorneys representing FPUD on the 2024 Transfer Water negotiation would not be the same attorneys who represent Westlands potentially would represent Westlands on the 2024 Transfer Water negotiation.

In order for KMTG to assist FPUD in its negotiation of a 2024 Transfer Water purchase and sale agreement, FPUD and Westlands each must consent to such representation in writing. To support any such consent, KMTG would maintain an ethical screen respectively protecting confidential FPUD information and confidential Westlands information material to the negotiation of a potential 2024 Transfer Water purchase and sale agreement between FPUD and Westlands ("Material Confidential Information"). The screen would prevent the disclosure of FPUD's Material Confidential Information, including any information regarding Sugar Pine Reservoir operations, to Westlands. The screen also would prevent the disclosure of Westlands Material Confidential Information, including any information regarding Central Valley Project operations or Westlands' interest in 2024 Transfers, to FPUD and KMTG attorneys representing FPUD on the 2024 Transfer Water negotiation with Westlands.

Under the ethical screen, Eric Robinson would represent FPUD on the 2024 Transfer Water matter. The ethical screen would require Eric Robinson to refrain from discussing the 2024 Transfer Water matter with any KMTG attorneys with Westlands Material Confidential Information.

If Westlands and FPUD successfully consummate an agreement for the purchase and sale of the 2024 Transfer Water, they will then have a unity of interest in successfully obtaining regulatory and administrative approvals needed to perform the agreement. In the event of any litigation by third parties challenging the 2024 Transfer Water agreement and related approvals, Westlands and FPUD would likely also have a unity of interest in successfully defending the agreement and approvals. In the event of such litigation, it may be helpful to all parties to have KMTG's assistance in defending the agreement and approvals, which would require revisiting this disclosure and waiver. However, that is something that may be addressed when and if the need were to arise, and any such changes would only occur with the consent of FPUD and Westlands. In the unlikely event of litigation between FPUD and Westlands in the 2024 Transfer Water matter, KMTG would not represent either FPUD or Westlands in such litigation.

Meanwhile, Westlands agrees it will not seek to disqualify KMTG from representing FPUD in any other matters based on KMTG's representation of FPUD in the negotiation of a potential 2024 Transfer Water purchase and sale agreement with FPUD, so long as FPUD has agreed that it will not seek to disqualify KMTG from representing Westlands in any other matters based on KMTG's representation of FPUD in the negotiation of a potential 2024 Transfer Water purchase and sale agreement with Westlands.

If you have any questions or concerns about granting consent to KMTG's representation of FPUD in this matter notwithstanding its representation of Westlands in unrelated matters, you should seek the advice of another attorney to resolve any questions or concerns. To confirm that FPUD



Hank White
May 22, 2024
Page 3

consents to KMTG's representation with knowledge of these circumstances, please execute this letter in the space provided below, and return one original to our office.

Sincerely,

KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD
A Professional Corporation



ERIC N. ROBINSON

ENR/ER



CONSENT AND WAIVER

Subject to the ethical screen described above, Foresthill Public Utility District ("FPUD") consents to Kronick, Moskovitz, Tiedemann & Girard's ("KMTG") representation of Westlands Water District ("Westlands") on matters unrelated to its proposed purchase of the 2024 Transfer Water from FPUD, while KMTG continues to represent FPUD as general counsel in all matters, including on the proposed sale of 2024 Transfer Water to Westlands. FPUD agrees it will not cite KMTG's work on the 2024 Transfer Water matter for FPUD as grounds for seeking to disqualify KMTG from representing Westlands on other unrelated matters, so long as Westlands agrees it will not cite KMTG's work on unrelated matters for Westlands as grounds for seeking to disqualify KMTG from representing FPUD in any matters.

Foresthill Public Utility District

By:



Hank White, General Manager





400 Capitol Mall, 27th Floor
Sacramento, CA 95814

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F | 916.321.4555

Eric N. Robinson
916.321.4576
erobinson@kmtg.com

May 4, 2026

Proposed 2026 waiver letter

VIA ELECTRONIC MAIL

Hank White
General Manager
FORESTHILL PUBLIC UTILITY DISTRICT
P.O. Box 266
Foresthill, California 95631
E-Mail: gm@foresthillpud.com

Re: Conflict waiver for potential 2026 Foresthill Public Utility District water transfer to Westlands Water District

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KMTG currently represents Westlands in a range of matters as special counsel, matters that do not involve water transfers. In past water transfers Westlands has typically been represented by its General Counsel on its potential purchase of supplemental water supplies from third parties, like FPUD, and Westlands will be represented by its General Counsel on the potential 2026 water transfer.

FPUD’s request for KMTG’s representation in FPUD’s 2026 Transfer Water negotiations with Westlands and KMTG’s current representation of Westlands in unrelated matters implicate the State Bar’s Rules. Rule 1.7 states in pertinent part: “A lawyer shall not, without informed written consent from each client and compliance with paragraph (d), represent a client if the representation is directly adverse to another client in the same or a separate matter.”

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In order for KMTG to assist FPUD in its negotiation of a 2026 Transfer Water purchase and sale agreement, FPUD and Westlands each must consent to such representation in writing. To support any such consent, KMTG would maintain an ethical screen respectively protecting confidential FPUD information and confidential Westlands information material to the negotiation of a potential 2026 Transfer Water purchase and sale agreement between FPUD and Westlands ("Material Confidential Information"). The screen would prevent the disclosure of FPUD's Material Confidential Information, including any information regarding Sugar Pine Reservoir operations, to Westlands. The screen also would prevent the disclosure of Westlands Material Confidential Information, including any information regarding Central Valley Project operations or Westlands' interest in 2026 Transfers, to FPUD and KMTG attorneys representing FPUD on the 2026 Transfer Water negotiation with Westlands.

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Hank White
May 4, 2026
Page 3

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Sincerely,

KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD
A Professional Corporation



ERIC N. ROBINSON

ENR/ER



Hank White
May 4, 2026
Page 4

CONSENT AND WAIVER

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Foresthill Public Utility District

By: _____
Hank White, General Manager



From: [Chase Dowling](#)
To: [Hank White](#)
Subject: Re: Special Council Contract
Date: Friday, May 1, 2026 8:18:16 AM
Attachments: [FPUD Special Council Contract.pdf](#)

Item 8.1

Get [Outlook for iOS](#)

From: Chase Dowling
Sent: Friday, May 1, 2026 8:17:38 AM
To: Hank White <GM@foresthillpud.com>
Subject: Special Council Contract

Hey Hank,

Here is the contract from Special Council BBK to be included in the May agenda as discussed at our April meeting.

Contract should be Under Board Member Action Item

Description should be-

At April's board meeting the board decided to use BBK as special council for the Review process surrounding the negotiation and approval of the GM's contract in 2024. The Board also decided to bring back the Contract from BBK for approval.

This is the Contract.

Desired Outcome- Approve BBK Contract.

Get [Outlook for iOS](#)



Michael J. Maurer
Partner
(213) 787-2557
michael.maurer@bbklaw.com

April 29, 2026

VIA DOCUSIGN
BCDOWLING@GMAIL.COM

Chase Dowling, President
Foresthill Public Utility District
24540 Main Street
Foresthill, CA 95631

Re: Engagement Letter

Dear Mr. Dowling:

Foresthill Public Utility District (the “District”) has requested that Best Best & Krieger LLP (“BBK”) provide special counsel services to analyze whether approval of the General Manager’s contract was valid, and possibly other matters as requested (collectively, the “District Matters”).

Fees and Billing Practices

My colleague, Kyler Rayden, will be the primary contact for this matter. For this work, we will use our Mr. Rayden’s current public rate, which is \$325 per hour.

If other attorneys and/or legal professionals are called upon to work on this or other matters that might arise, they will bill at then-current individual public rates which are based on experience and areas of expertise. Those hourly rates fall within the following ranges: Partners and Of Counsel range from \$345 - \$685 per hour; Associates range from \$275 - \$395 per hour; Paralegals, Law Clerks and Analysts from \$205 - \$265 per hour, and Pension Consultants and Government Affairs from \$285 - \$510 per hour. Our rates and ranges are adjusted annually every July 1st, with advanced written notice. Rate adjustments usually follow market trends as well as the Consumer Price Index (CPI) as is appropriate for each of our areas of specialization.

We are requiring an initial advance deposit of \$5,000. You may pay by credit card using the following link: <https://app.clientpay.com/home/payment/#/paymentPage/5cee79cf-7597-414c-b9c2-b3bf2f639727>. Please include the attorney name in the “Notes” field before submitting payment. We reserve the right to require you to replenish this advance deposit at any future time. We also reserve the right to require you to increase the amount of this deposit if you fall behind in payment to us or if the scope of our work increases.

Our administrative processes associated with fees, costs, and billing are described in the memorandum attached to this letter, entitled “Engagement Terms and Policies.” You should

Best Best & Krieger LLP | 300 South Grand Avenue, 25th Floor, Los Angeles, California 90071
Phone: (213) 617-8100 | Fax: (213) 617-7480 | bbklaw.com

Foresthill Public Utility District

April 29, 2026

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consider the Engagement Terms and Policies memorandum part of this agreement as it binds both of us. For that reason, you should read it carefully.

Client Records and Information

Consistent with its obligations under the rules governing the practice of law and industry standards, BBK implements policies and procedures in an effort to maintain the security and confidentiality of your information, both during and after our attorney-client relationship. Upon the conclusion of the Matter, unless otherwise instructed by you, we will retain the records related to the matter for a period of five years after which we will securely dispose of those records.

Civility and Professional Courtesy

In all matters we handle for clients, courtesy is customarily honored with opposing counsel, if any, such as extensions to file pleadings or responses to other deadlines. In our experience, the reciprocal extension of such courtesies saves our clients' time and money. By signing this letter you will be confirming your approval of this practice in your matter.

Conflicts of Interest

BBK is prohibited from taking on any representation of a client that creates a conflict of interest under the applicable rules of professional conduct governing lawyers. In general, a conflict of interest arises when a law firm represents one client in a matter where that client's interests are directly adverse to the interests of another of the law firm's clients. A law firm may undertake representation of a client in a matter that creates a conflict of interest only with the informed consent of all affected clients. In order to identify potential conflicts of interest, it is BBK policy to conduct a conflicts check before any new client representation or any new matter on behalf of an existing client, as well as during the course of our representation in a matter if and when new parties become involved. As a result, it is important for you to keep us informed of any new individuals or entities involved in the Matter. If BBK identifies any conflicts of interest involving representation of you, we will discuss that with you promptly and address any necessary informed consent in a separate letter. If there are any other conflicts-related considerations related to our representation of you, we will address those in a separate writing, as well.

Identity of Client – Affiliated or Related Parties

Our client in the Matter is the District. This representation does not extend to any affiliates, subsidiaries, owners, employees, agents, or relatives, as examples. This means that we owe no attorney-client obligations to any such parties, including obligations related to conflicts of interest. That is, we may take on matters for other clients that involve your affiliates, subsidiaries, owners, employees, relatives, or agents, among other such related parties, without creating a conflict of interest under the applicable rules of professional conduct.

Termination

You have the right to terminate our services at any time. If you do so, you will be responsible for the payment of fees and costs accrued but not yet paid, plus reasonable fees and costs in transferring the case to you or your new counsel. By the same token, we reserve the right

Foresthill Public Utility District

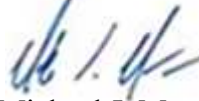
April 29, 2026

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to terminate our services to you upon written notice, order of the court, or in accordance with our attached Engagement Terms and Policies memorandum. This could happen if you fail to pay our fees and costs as agreed, fail to cooperate with us in this matter, or if we determine we cannot continue to represent you for ethical or practical concerns.

As I mentioned, please do not hesitate to contact me with any questions regarding the foregoing. If these terms are acceptable to the District, please sign this letter.

Best regards,



Michael J. Maurer

Partner

of BEST BEST & KRIEGER LLP

Chase Dowling, President
Foresthill Public Utility District

By:

Dated:



Michael J. Maurer
Partner
(213) 787-2557
michael.maurer@bbklaw.com

Engagement Terms and Policies

Introduction

Best Best & Krieger's Engagement Terms and Policies applies to any current or future legal matters handled by Best Best & Krieger, LLP ("BBK") for the individual or entity ("Client") receiving legal services. Except as modified by an engagement letter or any future agreement, it summarizes BBK's billing practices and certain other terms that apply to your engagement with BBK.

The attorney-client relationship works best when there is a clear understanding of fees, expenses, billing, and payment terms. This statement explains BBK's billing policies and procedures. The Client is encouraged to raise any questions about these policies. Questions about a specific bill may be directed to BBK's Accounts Receivable Team at accounts.receivable@bbklaw.com. Any billing arrangements different from those described below will be confirmed in a separate written agreement between Client and BBK.

Notice to Texas Clients

Pursuant to Texas Government Code Section 81.079, Texas attorneys must provide notice to clients of the existence of the grievance process.

This notice can be accessed by accessing the following website: <https://bbklaw.com/texasgrievanceprocess>

Fees for Professional Services

Unless a flat fee is stated in the engagement letter, fees for legal work will be based primarily on the time spent by BBK personnel working on the Client's behalf. In certain circumstances, which will be discussed and agreed upon in writing, fees may also be determined by the complexity of the matter and the experience required of the team handling it. Hourly rates reflect the skill and experience of the attorney or other legal personnel providing services. All legal services are billed in one-tenth of an hour (0.10/hour) increments, equal to six minutes. Hourly rates are disclosed in the applicable agreement you sign with BBK, either as specific rates or as rate ranges. Hourly rates are reviewed periodically, typically on an annual basis. Any adjustments resulting from these reviews will take effect automatically and will apply to all affected clients. This document serves as written notice of such rate changes.

Because legal matters involve many variables, any fee estimates provided by BBK—whether for budgeting purposes or otherwise—are only approximations and are not binding.

BBK may employ non-attorney personnel under the supervision of a BBK attorney when reasonably necessary in the judgment of the responsible attorney. Common non-attorney roles include paralegals, municipal analysts, litigation analysts, paraprofessionals, law clerks, case clerks, specialty consultants, administrative assistants, and research assistants. Rates or rate ranges for these personnel are noted in written agreement between the Client and BBK. No separate charge is made for secretarial or word-processing services; those costs are included in the hourly rates. BBK charges for audit letter responses when these services are required for Client financial matters. Current rates and titles for non-attorney personnel are available upon request.

Foresthill Public Utility District

April 29, 2026

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Fees For Other Services, Costs and Expenses

In addition to fees for professional legal services, BBK charges separately for certain other services and expenses used by each client. These charges may include, but are not limited to, mileage at the current IRS-approved rate per mile, document delivery charges, copy/scan/print charges, computerized research, court filing fees, and other court-related costs such as court reporter and transcription fees. BBK may advance costs and incur expenses on Client’s behalf on an ongoing basis. These items are separate from attorneys’ fees and are billed as out-of-pocket expenses.

BBK provides Electronically Stored Information Support and Storage (“ESI”) services for matters with a document population over 1GB—typically litigation or threatened litigation matters. BBK’s rates for basic ESI processing and storage are as follows, per month, based on the number of gigabytes (“GB”) processed and stored:

Data Volume	Monthly Rate per GB
1GB -250GB	\$10 per GB
251GB - 550GB	\$8 per GB
551GB - 750GB	\$6 per GB
751GB - 1TB	\$4 per GB

These rates allow BBK to recover the costs of providing ESI services, plus a net profit. BBK believes these rates are lower than comparable services offered by third-party vendors. If Client wishes to contract separately with a third-party vendor for ESI processing and storage, written notice should be sent to PracticeSupportServices@bbklaw.com. BBK also provides advanced ESI processing services at hourly rates for personnel in its Litigation Support Group. A copy of BBK’s current rates for these services is available upon request.

Advance Deposit Toward Fees And Costs

From time to time, BBK may require an advance deposit, the amount of which will depend on the circumstances of the representation and will be discussed with the Client. Additional advances may also be requested if the scope of work expands or significant costs are anticipated.

All advance deposits are held in BBK’s client trust account (IOLTA). Monthly invoices will reflect any application of the deposit to fees and/or costs. At the time the Client engages BBK, the Client also authorizes BBK to withdraw funds from the trust account as fees and/or costs are incurred. Any unused balance will be returned to the Client at the conclusion of the matter.

Invoice and Payment Options

BBK issues monthly invoices for legal services and expenses. Each reflects professional fees and other charges for work performed through the prior month, plus expenses processed on Client’s behalf. Time entries or expenses may occasionally appear on later invoices. All billed items are valid and payable.

Invoices are delivered through BBK’s secure online portal, which also accepts payment. Other payment options appear on each invoice. If a W-9 is required, email accounts.receivable@bbklaw.com. Invoices are due upon receipt, and fees are not contingent on the outcome of any matter.

Billing questions should be raised promptly after receipt so they can be addressed quickly. BBK may terminate its engagement and withdraw as attorney of record if invoices are not paid on time.



Michael J. Maurer
Partner
(213) 787-2557
michael.maurer@bbklaw.com

April 29, 2026

VIA DOCUSIGN
BCDOWLING@GMAIL.COM

Chase Dowling
President
Foresthill Public Utility District
24540 Main Street
Foresthill, CA 95631

Re: Advance Conflict waiver re Representation of Other Clients in Water Law Issues

Dear Mr. Dowling:

Foresthill Public Utility District (the “District”) has requested that Best Best & Krieger LLP (“BBK”) provide special counsel services to analyze whether approval of the General Manager’s contract was valid, and possibly other matters as requested (collectively, the “District Matters”).

BBK also represents a broad range of clients on issues related to water rights. Such work includes representation of clients concerning groundwater sustainability agencies, transactions, negotiations, representation on CEQA or NEPA issues, administrative hearings before the State Water Resources Control Board or other state or federal agencies, regulatory permitting, disputes, or litigation (“Water Matters”). While BBK is not currently representing any other client in Water Matters involving the District, it is possible that BBK may be asked to provide such representation in the future.

This letter is to request an advance waiver from the District so that BBK may represent other clients in the future on Water Matters adverse or potentially adverse to the District while BBK concurrently represents the District in the District Matters.

Rule 1.7 of the California Rules of Professional Conduct provides:

- (a) A lawyer shall not, without informed written consent from each client and compliance with paragraph (d), represent a client if the representation is directly adverse to another client in the same or a separate matter.
- (b) A lawyer shall not, without informed written consent from each affected client and compliance with paragraph (d), represent a client if there is a significant risk the lawyer’s representation of the client will be materially limited by the lawyer’s

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Foresthill Public Utility District

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responsibilities to or relationships with another client, a former client or a third person, or by the lawyer's own interests.

...

- (d) Representation is permitted under this rule only if the lawyer complies with paragraphs (a), (b), ... and:
- (1) the lawyer reasonably believes that the lawyer will be able to provide competent and diligent representation to each affected client;
 - (2) the representation is not prohibited by law; and
 - (3) the representation does not involve the assertion of a claim by one client against another client represented by the lawyer in the same litigation or other proceeding before a tribunal.

Our representation of other current or future clients in Water Matters adverse to the District is not prohibited by Rule 1.7, but requires your consent. We do not believe our involvement in such Water Matters on behalf of other clients will impair the competence, diligence or loyalty with which we will represent the District nor will it otherwise materially limit our representation of the District or impair our independent professional judgment in any way. For example, we do not believe we will be tempted to favor the interests of one client over the other, nor do we think the relationship will create any appearance of impropriety. However, these are all things you should consider before consenting to our representation of other clients in future Water Matters involving and adverse to the District.

As a condition of the District's consent, BBK agrees that it will not represent other clients in Water Matters that are substantially related to any matter BBK is handling or has in the past handled on behalf of the District. BBK also will establish an ethical screen between any lawyers involved in our representation of the District and any lawyers involved in future Water Matters adverse to the District on behalf of other BBK clients.

In the event that circumstances change or we become aware of new information that requires additional client consent or new notice, each affected client will be notified of that fact immediately, and continued representation will be subject to that notice and the informed written consent of each client will be obtained as necessary.

Please consider this matter carefully, and do not hesitate to contact us if you have any questions or concerns. You may wish to confer with independent legal counsel regarding this disclosure and your consent, and you should feel free to do so.

Your execution of this letter will constitute an acknowledgment of full disclosure in compliance with the requirements of Rule 1.7 of the California Rules of Professional Conduct previously quoted in this letter, and your consent to our representation of other clients in Water Matters adverse to the District.

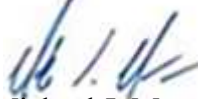
Foresthill Public Utility District

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By signing below, you acknowledge the advance waiver described on the preceding pages. Please contact us with any questions regarding the waiver or this engagement.

Best regards,



Michael J. Maurer

Partner

of BEST BEST & KRIEGER LLP

AGREED AND ACCEPTED:

Chase Dowling, President
Foresthill Public Utility District

By:

Dated:

From: [Dianne Foster](#)
To: [Hank White](#); [Chase Dowling](#)
Cc: [Dianne Foster](#)
Subject: Agenda item for May Board meeting
Date: Friday, May 1, 2026 1:02:25 PM
Attachments: [FPUD Attorney charges 2021-25.xlsx](#)

Item 8.2

BOARD MEMBER ACTION ITEM

Submitted by Dianne Foster

Title (aka as Subject) --The Board Explore hiring another Attorney Firm

Description (aka as Background) The time has come to consider hiring a different Attorney firm to represent the FPUD. The current firm has been the FPUD counsel for approximately 15 years. During this time, there have been some costly decisions made which was against the financial well-being of the FPUD and the ratepayers. The District would benefit in seeking another attorney firm with a new and fresh perspective on legal matters and advice.

Outcome – Publish a RFP (aka Request For Proposal) in search for a new Attorney firm to represent the FPUD.

Please include the attached Excel KRONIC document

Dianne Foster

Cash Disbursements Register			Miners Camp litigation began in 2017		
					2021
<u>Date</u>	<u>Ck. No.</u>	<u>Name</u>	<u>Memo</u>	<u>Paid Amt.</u>	
Jan		Cash Disbursements Reg. Missing			
3-Feb	32016	Kronick, Moskovitz, et al	Information Missing	\$30,261.60	
Mar		Cash Disbursements Reg. Missing			
April		Cash Disbursements Reg. Missing			
May		No charges recorded			
21-Jun	32117	Kronick, Moskovitz, et al	Information Missing	2,768	
28-Jun	32231	Kronick, Moskovitz, et al	Information Missing	7,579.30	
				3 MONTHS	\$40,608.90
					2021-22
July		No charges recorded			
08/02/21	32303	Kronick, Moskovitz, et al	Void: May attorney fees	0	
9-Aug	32317	Kronick, Moskovitz, et al	June Attorney fees	21,296.75	
30-Aug	32356	Kronick, Moskovitz, et al	Attorney services July 2021	7,599.55	
Sept.		Cash Disbursements Reg. missing			
4-Oct	32411	Kronick, Moskovitz, et al	Legal fees August 2021	8,428	
29-Nov	32503	Kronick, Moskovitz, et al	Attorney fees September 2021	23,714.68	
13-Dec	32520	Kronick, Moskovitz, et al	Attorney fees November 2021	6,976	
10-Jan	32559	Kronick, Moskovitz, et al	Legal Services November 2021	2,266.50	
Feb		No charges recorded			
7-Mar	32636	Kronick, Moskovitz, et al	Legal services December 2021	8,255.50	
18-Apr	32710	Kronick, Moskovitz, et al	Legal services January 2022	7,570	
16-May	32757	Kronick, Moskovitz, et al	Attorney services April 2022	13,621.30	
20-Jun	32810	Kronick, Moskovitz, et al	Attorney services May 2022	6,619.50	
				TOTAL-- Month missing	\$106,347.78
			Miners Camp litigation settled 5 years later		2022-23

5-Jul	32823	Kronick, Moskovitz, et al	Legal services for April & May 2022	25,540.82	
1-Aug	32878	Kronick, Moskovitz, et al	Legal fees June	8,493.05	
Sept.		No charges recorded			
10-Oct	32990	Kronick, Moskovitz, et al	Legal services for September 2022	11,868.45	
11/28/22	33069	Kronick, Moskovitz, et al	Legal Services Sept. 2022	3094.07	
12-Dec	33098	Kronick, Moskovitz, et al	October 2022 legal fees	7,328.93	
15-Dec	33109	Miners Camp LLC	Settlement	98,247.58	
12-Jan	33141	Miners Camp LLC	Appeals cost and fees	46,053	
17-Jan	33145	Kronick, Moskovitz, et al	Legal services Nov 2022	13,508.57	
02/06/23	33184	Kronick, Moskovitz, et al	Attorney services Dec. 2022	11766.6	
02/27/23	33214	Kronick, Moskovitz, et al	Jan 2023 legal service	12816.45	
03/20/23	33248	Kronick, Moskovitz, et al	Legal Services Feb 2023	11051.45	
27-Apr	33300	Kronick, Moskovitz, et al	Legal services March 2023 (Fin. Mgr dies Apr 8)	Voided	
4-May	33331	Kronick, Moskovitz, et al	Legal services for March	6,159.85	
6-Jun	33408	Kronick, Moskovitz, et al	Legal services	4,075	
20-Jun	33433	Kronick, Moskovitz, et al	Legal fees	6,854	
			TOTAL & THIS DOES NOT INCLUDE \$98,247.58		\$168,610.24
			TOTAL KRONIC FEES AND SETTLEMENT COST		\$266,857.82
		WATER RATES INCREASED			
					2023-24
11-Jul	33460	Kronick, Moskovitz, et al	Legal fees through 6/22/23	3,873.75	
22-Aug	33552	Kronick, Moskovitz, et al	Client #012257 Legal fees	2,697.00	
26-Sep	33602	Kronick, Moskovitz, et al	Legal fees Client #012257	5,472.75	
Oct		No charges recorded			
7-Nov	33661	Kronick, Moskovitz, et al	Legal fees Client #012257	6,071	
13-Dec	33718	Kronick, Moskovitz, et al	Legal fees Client #012257	853.00	
3-Jan	33746	Kronick, Moskovitz, et al	Legal fees Client #012257	189.00	
6-Feb	33798	Kronick, Moskovitz, et al	Legal services Client #012257	1,357.00	
27-Feb	33823	Kronick, Moskovitz, et al	Legal services Client #012257	3,532.80	
19-Mar	33846	Kronick, Moskovitz, et al	Legal services Client #012257	3,223	
30-Apr	33907	Kronick, Moskovitz, et al	Legal services Client #012257	2,555.70	
May		No charges recorded			
11-Jun	33959	Kronick, Moskovitz, et al	Legal services Client #012257	3,696.00	

				TOTAL		33,521
		ALL EMPLOYEES GOT A 10% RAISE INCLUDING GM				2024-25
24-Jul	34011	Kronick, Moskovitz, et al	Legal services Client #012257		829.8	
27-Aug	34093	Kronick, Moskovitz, et al	Legal services Client #012257		13,024.52	
Sept.		No charges recorded				
Oct. 8	ACH 100824	Kronick, Moskovitz, et al	Legal services Client #012257		19,758.08	
5-Nov	ACH 110524	Kronick, Moskovitz, et al	Legal services Client #012257		4,417	
6-Dec	ACH120624	Kronick, Moskovitz, et al	Legal Services		12,147	
30-Dec	ACH 123024	Kronick, Moskovitz, et al	Legal services Client #012257		1,029	
01/01/25		No charges recorded				
02/04/25	ACH020425	Kronick, Moskovitz, et al	Legal Services		\$2,570.26	
03/11/25	ACH031125	Kronick, Moskovitz, et al	Legal Services		\$1,983.00	
04/11/25	ACH041125	Kronick, Moskovitz, et al	Legal Services		\$12,342.10	
05/28/25	ACH052825	Kronick, Moskovitz, et al	Legal Services		\$1,013.25	
06/27/25	30913388	Kronick, Moskovitz, et al	Legal Services		\$819.75	
				TOTAL		\$69,933.78
						2025-26
July		No charges recorded				
08/15/25	30914112	Kronick, Moskovitz, et al	Legal fees		\$1,148.00	
09/17/25	30914666	Kronick, Moskovitz, et al	Legal fees		\$6,634.47	
10/22/25	30915058	Kronick, Moskovitz, et al	Legal fees		\$2,620.05	
11/06/25	30915518	Kronick, Moskovitz, et al	Legal fees		\$2,494.03	
12/03/25	30915832	Kronick, Moskovitz, et al	Legal Services		\$1,720.00	
01/01/26		No charges recorded				
02/01/26		No charges recorded				



Item 9.1

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: Revised job description for Treatment Plant/Distribution Operator IV

Recommendation: Consider the attached revised job description and recommendation from staff.

Background: The Board directed staff to update job descriptions contained in the Board Policy Manual during the November 12, 2025 board meeting. Staff has attached the existing job description and a revised edition.

Recommended Action: Review existing job description, revised job description and consider approval.

FORESTHILL PUBLIC UTILITY DISTRICT

POLICY HANDBOOK

POLICY TITLE: Job Description – Treatment Plant / Distribution Operator IV

POLICY NUMBER: 2330

Definition/Summary

Under general direction, positions in the Utility Operator IV classification perform the full range of public water system operation, maintenance, installation, and repair with minimal supervision.

Essential Functions

- Performs a variety of field and plant maintenance on public water system facilities
- Performs vegetation management by mowing/cutting weeds, trees and brush
- Operates automatic and manually controlled equipment, motors, and pumps used in the treatment and disinfection of water and distribution systems
- Takes samples at established times, performing standardized quality control tests, and adjust chemical feeders and other plant equipment
- With minimal direction, fully operates and maintains the water treatment plant and distribution system
- Provides training and assistance to employees in training classifications
- Provides customer service including resolving customer complaints
- Safely use hand and power tools to execute assignments
- Provides on-call services as assigned
- Work in a manner that observes proper work safety standards
- Understand and carry out written and verbal instructions
- Establish and maintain cooperative working relationships with co-workers, outside agencies, and the public
- Regular attendance and adherence to prescribed work schedule to conduct job responsibilities
- Working knowledge of Microsoft Office
- Performs other duties as assigned

Typical Physical Activities

- Operates vehicles to travel to and from work assignments
- Must be able to carry, push, pull, reach, and lift equipment and parts weighing up to 100 pounds.
- Stoops, kneels, crouches, crawls, and climbs during maintenance and repair work
- Works in an environment with exposure to dust, dirt, chemicals and significant temperature changes between cold and heat
- Communicate clearly both orally and in writing
- Regularly uses common office/plant equipment such as telephones and computers
- Stands and walks for extended time periods and in uneven terrain
- Hearing and vision within normal ranges with or without correction

- Routinely works in and around confined spaces

Environmental Factors

- Exposure to the sun: Considerable work time spent outside and exposed to the sun
- Work above floor level: Routinely work on ladders or other surfaces above the ground
- Temperature: Considerable work time in hard manual labor in cold and hot temperatures
- Humidity: Work in areas with unusually high humidity
- Wetness: More than 10% of the work time getting part or all of the body and/or clothing wet
- Noise: Often assigned to work around unusually loud sounds
- Slippery surfaces: Routinely assigned to work on unusually slippery surfaces
- Oil: Some parts of the body in contact with oil or grease
- Dust: Works in or around areas with potentially significant levels of dust
- Irregular or extended work hours: Occasionally required to change working hours or work overtime
- On-call duties: The position is required to work on-call duties as assigned

Minimum Requirements

- Education: High school diploma is required. Secondary education is preferred
- Experience: Five years of responsible work experience in performing distribution system and water treatment plant operations
- Driver’s license: Possession of a valid California Class C driver’s license with a record free of multiple or serious traffic violations. A California Class A driver’s license is preferred.
- General certifications: Must possess and maintain a minimum of a California Department of Public Health water treatment plant operator certificate Grade 3 and distribution operator certificate, Grade 2

The specific statements shown in each section of this job description are not intended to be all-inclusive. They represent typical elements and criteria necessary to successfully perform the essential functions of the position.

I have reviewed this Job Description with my Supervisor and agree with its contents.

Employee Signature

Date

Supervisor Signature

Date

Foresthill Public Utility District

Revision Date: May 6, 2026

Job Specification: Treatment Plant/Distribution Operator IV

Summary Description: Under direction, performs highly skilled and complex operational duties and serves as a lead over assigned staff. Responsible for overseeing daily operations, ensuring regulatory compliance, and coordinating work activities.

Distinguishing Characteristics: This classification is distinguished by **lead responsibility**, advanced certification, and accountability for operational oversight. Incumbents may assign work, provide training, and ensure proper procedures are followed but do not perform formal employee discipline unless specifically designated.

Supervision Received: Receives direction from a supervisor or management-level staff. Exercises lead responsibility over Operators I-III.

Examples of Duties:

In addition to duties performed at lower levels:

- Lead daily treatment plant and distribution system operations.
- Assign and coordinate work activities for assigned staff.
- Ensure compliance with State and Federal drinking water regulations.
- Review and verify operational logs, reports, and compliance records.
- Respond to and coordinate emergency response activities.
- Assist with scheduling, standby coverage, and operational planning.
- Serve as primary point of contact during assigned shifts or operational periods.
- Assist supervisors with training, performance feedback, and technical evaluations.
- Participate in inspections, audits, and regulatory reviews.
-

Required Knowledge:

- Water treatment principles and processes.
- Distribution system hydraulics and operation.
- Applicable State and Federal drinking water regulations.
- Independent meter reading duties
- Advanced SCADA system operation.
- Emergency response procedures.

Ability to:

- Independently operate treatment and distribution facilities.
- Troubleshoot complex mechanical, electrical, and process-related issues.
- Make operational decisions consistent with safety and regulatory requirements.

- Train and provide work direction to entry-level staff.
- Maintain accurate operational records and reports.

Working Conditions:

Same as Operator I, with increased responsibility for emergency response and independent fieldwork.

Experience and Education:

- Any combination of education and experience that would likely provide the required knowledge and abilities.
- Typically five or more years of increasingly responsible experience in water treatment and distribution operations, including experience equivalent to Operator III.

Licenses and Certifications

- Possession and maintenance of a valid California driver's license.
- Water Treatment Plant Operator Certificate Grade III (minimum)
- Water Distribution Operator Certificate Grade III (minimum)

Class specifications are intended to describe the general nature and level of work performed. They are not intended to be an exhaustive list of all duties, responsibilities, or requirements of the position.

From: [Chase Dowling](#)
To: [Hank White](#)
Subject: 5025 Revision
Date: Monday, May 4, 2026 11:56:17 AM
Attachments: [5025 Board Meeting Agenda Format Adopted 2025 12 09.docx](#)

Item 9.2

Hey Hank,

Here is my submission for the revision of Policy 5025.

Category- Policy Action Item

Description- I am submitting Revisions to Policy 5025 because after a few months of its implementation I have found that it needs some adjustment for better understanding and work flow. I am submitting revisions to 5025.22, 5025.23, 5025.24.1, 5025.24.2, 5025.25.

Desired outcome- Approve Revisions

Get [Outlook for iOS](#)

Foresthill Public Utility District
POLICY HANDBOOK

POLICY TITLE: **Agenda Format, Item Submittal & Processing Procedures**
POLICY NUMBER: **5025**

5025.10 – Purpose

This policy establishes the rules and procedures for how agenda items are submitted, categorized, scheduled, and considered by the Foresthill Public Utility District Board of Directors. It provides consistent standards for Director-submitted items, category limits, item advancement, required documentation, fairness protections, and a clear, Brown Act–compliant meeting flow.

Policy 5020 governs Brown Act posting, noticing, and agenda creation authority.

5025.20 – Required Agenda Sections

All Regular and Special Meeting agendas shall include the following sections, in the order listed:

1. Call to Order
2. Pledge of Allegiance
3. Roll Call
4. Adjustments to the Agenda Within Categories
5. Public Comment
6. Consent Calendar
7. Operations Action Items
8. Board Member Action Items
9. Board Member Policy Action Items
10. Discussion Items
11. Future Agenda Items
 - 11.1 Future Board Member Action Items
 - 11.2 Future Policy Action Items
 - 11.3 Future Discussion Items
12. General Manager’s Report
13. Directors’ Items / Information Only
14. Closed Session
15. Report Out of Closed Session
16. Adjournment

5025.21 – Agenda Item Categories

- (a) Operations Action Items – Items prepared by the General Manager requiring formal Board action.
- (b) Board Member Action Items – Director-submitted items seeking Board action or direction.
- (c) Board Member Policy Action Items – Items proposing adoption, amendment, or repeal of Board Policies.

- (d) Discussion Items – Non-action items for updates, conceptual discussion, or informational review.
- (e) Future Agenda Items – Items awaiting prioritization or placement on a future agenda.

5025.22 – Submittal Requirements

Directors can submit items for inclusion in the Agenda by meeting these requirements:

~~A). For inclusion into the Agenda in Future Agenda Items (the default location);~~

- ~~1. Category~~
- ~~2. Title~~
- ~~3. A three to five sentence description~~
- ~~4. Requested outcome~~

~~B). For inclusion into Board Member Action Item, Board Member Policy Action Item, or Discussion Items Categories;~~

- 1. Category
- 2. Title
- 3. A three to five sentence description
- 4. Requested outcome
- 5. Supporting documentation
- 6. Additional requirements for Policy Action Items:
 - 1. A clean version of the policy
 - 2. A redline version showing proposed changes
 - 3. A summary of changes

~~5025.23 – Director Limits~~

~~Each Director may submit items for inclusion into the Agenda based on these limits:~~

- ~~– One (1) Board Member Action Item.~~
- ~~– One (1) Board Member Policy Action Item.~~
- ~~– One (1) Discussion Item.~~

5025.24 – GM + President Screening (Not a Veto - They may not block Director-submitted items.)

The General Manager and Board President jointly review items for:

- 1) Completeness
- 2) Appropriate category
- 3) Workload considerations
- 4) Supporting documentation
- 5) Category Limits

5025.24.1– Category Limits

- A. A maximum of three (~~3~~) items per category may be placed on the agenda.
- B. Category limits apply to:
 - Board Member Action Items
 - Board Member Policy Action Items
 - Discussion Items
- C. Category limits do not apply to the Future Agenda Items section.

- D. The Board may expand the category limits for the next Regular Meeting by majority vote.
(See .25.3,2)

5025.24.2 - Placement into the Agenda

This section describes how the Board President and the General Manager place items within the Board Agenda.

~~Newly submitted Board Member items are typically added to the Future Agenda Items section within the category submitted by the Board Member. Items may be advanced by the President and GM based on these criteria;~~

.2.1 If Action Categories are Empty (no scheduled items):

- 1) Items with complete documentation (~~see .22-B~~) may be placed in Action Items (Board Member Action Items, Board Member Policy Action Items, or Discussion Items)
- 2) Items lacking documentation remain in Future Agenda Items

.2.2 If Multiple Directors Submit in an Empty Category

- 1) All qualifying items (complete documentation ~~per .22-B~~) may appear in Action Items (Board Member Action Items, Board Member Policy Action Items, or Discussion Items) subject to Category Limits.
- 2) If Category limits would be exceeded, President and GM may select items to appear in Action Items. Remaining items will be placed in Future Agenda Items.

.2.3 Category Already Contains Items

- 1) All qualifying items (complete documentation ~~per .22-B~~) may appear in Action Items (Board Member Action Items, Board Member Policy Action Items, or Discussion Items) subject to Category Limits.
- 2) If Category limits would be exceeded, President and GM may select items to appear in Action Items. Remaining items will be placed in Future Agenda Items.

5025.25 – Future Agenda Items

~~.25.1 This is where items are placed for only discussion (no direct action) during the meeting.~~

.25.2 Future items are divided into:

- 1) Future Board Member Action Items
- 2) Future Policy Action Items
- 3) Future Discussion Items

.25.3 The board discusses the intent of the items and then determines, through a vote;

- 1) Which items (if any) warrant moving into an Action Item (Board Member Action Items, Board Member Policy Action Items, or Discussion Items).
- 2) The board may also vote to expand the number of items within a category for the next meeting.

.25.4 – Queuing items for Movement to Action Items

If a category item has reached its category limit;

- ~~1) items approved by the board for movement to an Action Item, will remain in the Future Agenda Items~~
- 2) items will be denoted as approved for movement pending room.
- 3) Items will be listed based on date approved for movement.

5025.29 – Two-Hour Meeting Rule

At approximately two hours of meeting duration, the Board shall vote to continue, adjourn, or skip sections. If the meeting is continued, at approximately hour intervals a vote will be taken again on continuation.

5025.30 – Advancing Items

Items may be advanced out of order only for:

- 1) Legal or statutory deadlines
- 2) Fiscal deadlines
- 3) Emergencies – may be adjusted or even added consistent with Brown Act rules to address immediate safety, regulatory, or financial concerns.
- 4) Majority Board vote
- 5) GM + President emergency determination

Foresthill Public Utility District
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- (a) Operations Action Items – Items prepared by the General Manager requiring formal Board action.
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(e) Future Agenda Items – Items awaiting prioritization or placement on a future agenda.

5025.22 – Submittal Requirements

Directors can submit items for inclusion in the Agenda by meeting these requirements:

A. For Inclusion into Board Member Action Items, Board Member Policy Action Items, Future Agenda Items or Discussion Item Categories;

1. Category
2. Title
3. A three to five sentence description
4. Requested outcome
5. Supporting documentation (Except Future Agenda Items)
6. Additional requirements for Policy Action Items:
 1. A clean version of the policy
 2. A redline version showing proposed changes
 3. A summary of changes

5025.24 – GM + President Screening (Not a Veto - They may not block Director-submitted items.)

The General Manager and Board President jointly review items for:

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- 2) Appropriate category
- 3) Workload considerations
- 4) Supporting documentation
- 5) Category Limits

5025.24.1– Category Limits

- A. A maximum of three (2) items per category may be placed on the agenda.
- B. Category limits apply to:
 - Board Member Action Items
 - Board Member Policy Action Items
 - Discussion Items
- C. Category limits do not apply to the Future Agenda Items section.
- D. The Board may expand the category limits for the next Regular Meeting by majority vote.
(See .25.3,2)

5025.24.2 - Placement into the Agenda

This section describes how the Board President and the General Manager place items within the Board Agenda.

Newly submitted Board Member items will be placed within the category submitted by the board member, if there is room in the category . Items may be advanced by the President and GM based on these criteria;

.2.1 If Action Categories are Empty (no scheduled items):

- 1) Items with complete documentation (see .22 A) may be placed in Action Items (Board Member Action Items, Board Member Policy Action Items, or Discussion Items)
- 2) Items lacking documentation remain in Future Agenda Items

.2.2 If Multiple Directors Submit in an Empty Category

- 1) All qualifying items (complete documentation per .22 A) may appear in Action Items (Board Member Action Items, Board Member Policy Action Items, or Discussion Items) subject to Category Limits.
- 2) If Category limits would be exceeded, President and GM may select items to appear in Action Items. Remaining items will be placed in Future Agenda Items.

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5025.25 – Future Agenda Items

.25.1 This is where items are placed for Information and Discussion of priority Only (no direct action) during the meeting.

.25.2 Future items are divided into:

- 1) Future Board Member Action Items
- 2) Future Policy Action Items
- 3) Future Discussion Items

.25.3 The board discusses the intent of the items and then determines, through a vote;

- 1) Which items (if any) warrant moving into an Action Item (Board Member Action Items, Board Member Policy Action Items, or Discussion Items) out of order. If there is room the item Automatically Gets placed if next in line.
- 2) The board may also vote to expand the number of items within a category for the next meeting.

.25.4 – Queuing items for Movement to Action Items

If a category item has reached its category limit;

- 1) items approved by the board for movement to an Action Item, will be placed onto the next meeting designated for placement by the board.
- 2) items will be denoted as approved for movement pending room.
- 3) Items will be listed based on date approved for movement.

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- 4) Majority Board vote
- 5) GM + President emergency determination



Item 12

Memorandum

To: Board of Directors
From: Henry N. White
Date: May 6, 2026
Subject: General Manager's Report

Topics of General Interest:

- 1. Safety Meeting Update** - As part of Foresthill's ongoing commitment to employee safety and well-being, staff participate in regular safety meetings throughout the year. On April 16, 2026, the team reviewed Hazardous Materials Business Plan Annual Training. These proactive sessions support a strong safety culture and help ensure that all employees are prepared for seasonal workplace challenges.
- 2. 2025 Consumer Confidence Report (CCR)** - Staff is pleased to report that the District's 2025 Consumer Confidence Report has been completed ahead of schedule. The report was prepared in full compliance with all applicable regulatory requirements and reflects the continued high quality and reliability of the District's drinking water supply.

In accordance with Division of Drinking Water guidelines, notification of the report's availability was successfully distributed to all customers on May 1. The report is also accessible through standard public channels to ensure transparency and ease of access.

Early completion and timely distribution demonstrate staff's proactive approach to regulatory compliance, strong internal coordination, and commitment to keeping customers informed. Staff will continue to prioritize efficiency, accuracy, and clear communication in all reporting efforts.

3. Finance Manager Report -March 2026 (Lance, Soll & Lunghard, LLP) LSL

1. Bookkeeping

Recorded daily transactions and maintained ledgers.

Reconciled bank accounts and customer credit card payments.

Managed property tax payments, savings account interest, and LAIF monthly entries.

Reconciled accounts receivable and delinquent accounts with monthly reports.

Allocated debt payments between FPUD and Tax Assessment District 708.

Recorded monthly revenue through Starnik and reconciled reports to the general ledger.

Processed prepaid insurance expenses, depreciation, and monthly expense allocations.

Reconciled quarterly reports, including payroll tax reports, customer deposits, and performed enhanced quarter close analytics.

2. Accounts Payable Processing

Processed invoices on March 3rd and 24th.

3. Payroll Processing

Reviewed timecards for accuracy and recorded payroll from ADP in QuickBooks.

Tracked employee benefits, including comp time and mileage, for future payout.

Distributed paystubs via email and allocated payroll costs by budget categories.

Recorded and paid CalPERS contributions; reconciled health insurance contributions.

Issue Robert's vacation payout and adjust his employment status with CalPERS.

4. Financial Reporting

Prepared key financial statements: balance sheet, income statement, and cash flow statement, providing an overview of March's financial performance.

Our intent is to implement FPUD's new fund balance policy (May 2025) on subsequent monthly financial reporting, pending management review and adjustment authorization.