



Sewer Pump Station Generator Replacement
PROJECT NUMBER: 24-26

ADDENDUM NO. 1

ISSUED THIS DATE: June 20, 2024

BID OPENING: 2:00 PM (PST) on Thursday, June 27, 2024

This addendum is for the 2024 Sewer Pump Station Generator Replacement project, Project No. 24-26, issued June 20, 2024. The document is posted to capture any questions received via email during the open question period and in person from bidders at the pre-bid walk through. Agency answers are provided.

The addendum shall become fully a part of the above-named project drawing, specifications, and bid documents. Each bidder shall be responsible for reading this addendum to ascertain to what extent and in what manner it affects the work to be performed. All bidders must acknowledge their receipt of this addendum on the Bid Form.

This Addendum consists of a total of five (5) pages, consisting of the following:

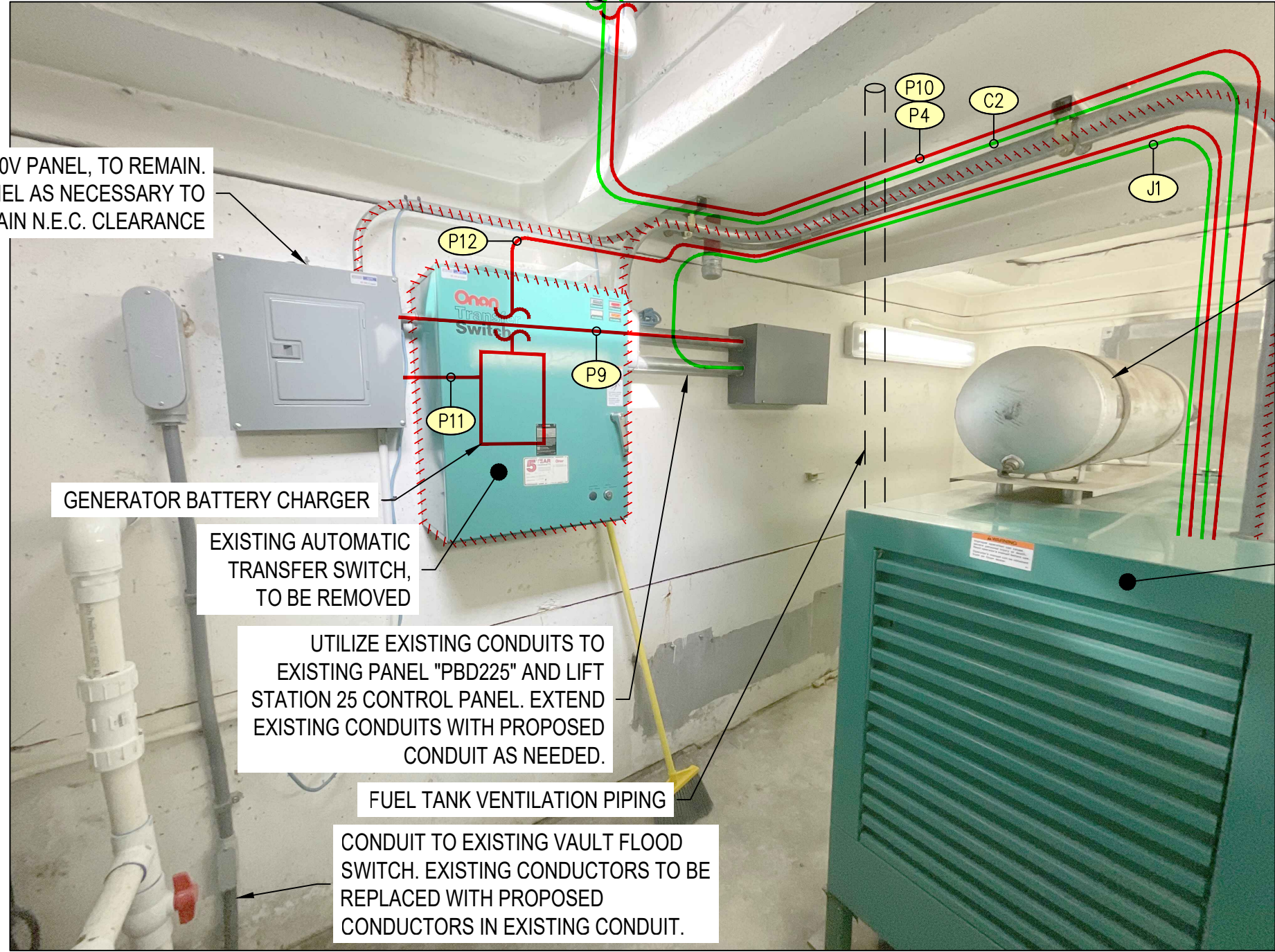
1. ADDENDUM No. 01, dated June 20, 2024. Total of 2 pages.
2. **Revised** DWG No. E06. Total of 1 page.
3. **Revised** DWG No. E07. Total of 1 page.
3. **Revised** DWG No. E09. Total of 1 page.

Questions & Answers

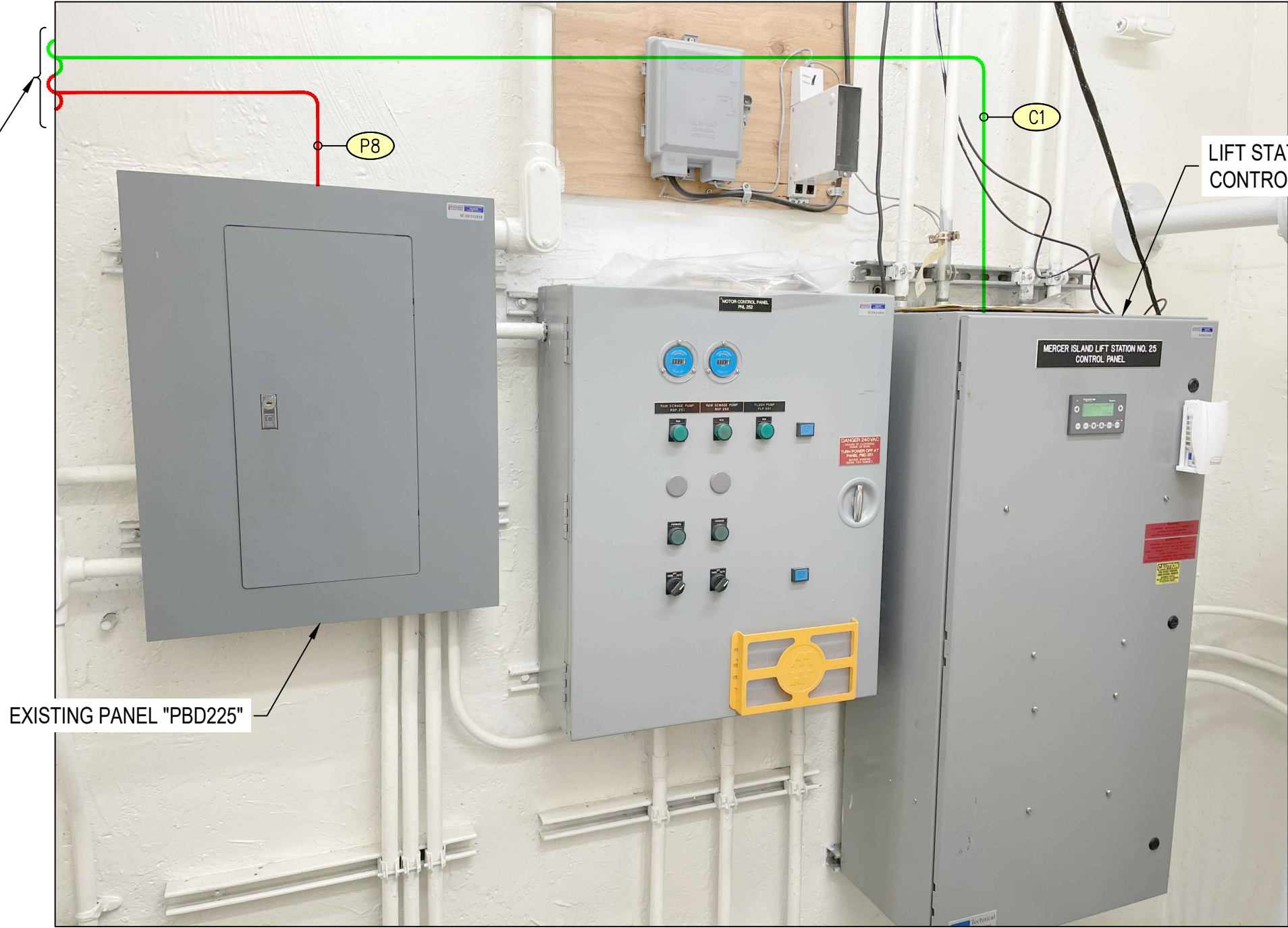
Ref	Question	Answer
1	LS 25 one-line diagram shows installing a main service disconnect before the meter base. As this service is 240-volt 3 phase, the disconnect is required to be installed after the meter. Page E07 indicates the service feeder enters the disconnect first. We believe that it enters the meter base first. The new equipment pedestal layout would require the meter to be relocated and it does not appear there would be enough wire to reach the new meter location. Please advise.	According to As-Built drawings for the site, the existing disconnect was installed ahead of the existing meter. We have revised the drawings with the existing meter ahead of the proposed main service disconnect to comply with PSE standards. Existing conductors shall be replaced with proposed conductors. Refer to the Additions and Modifications to the Contract Documents section in this addendum for additional information.

Additions and Modifications to the Contract Documents

Ref	Spec or Drawing	Location and Description of Change
A	DWG No. E06	Existing meter placed ahead of proposed main service disconnect switch.
B	DWG No. E07	Revised callout to include clarifying language.
C	DWG No. E09	Revised location of meter and disconnect on electrical equipment pedestal. Revised conduit and conductor schedules.



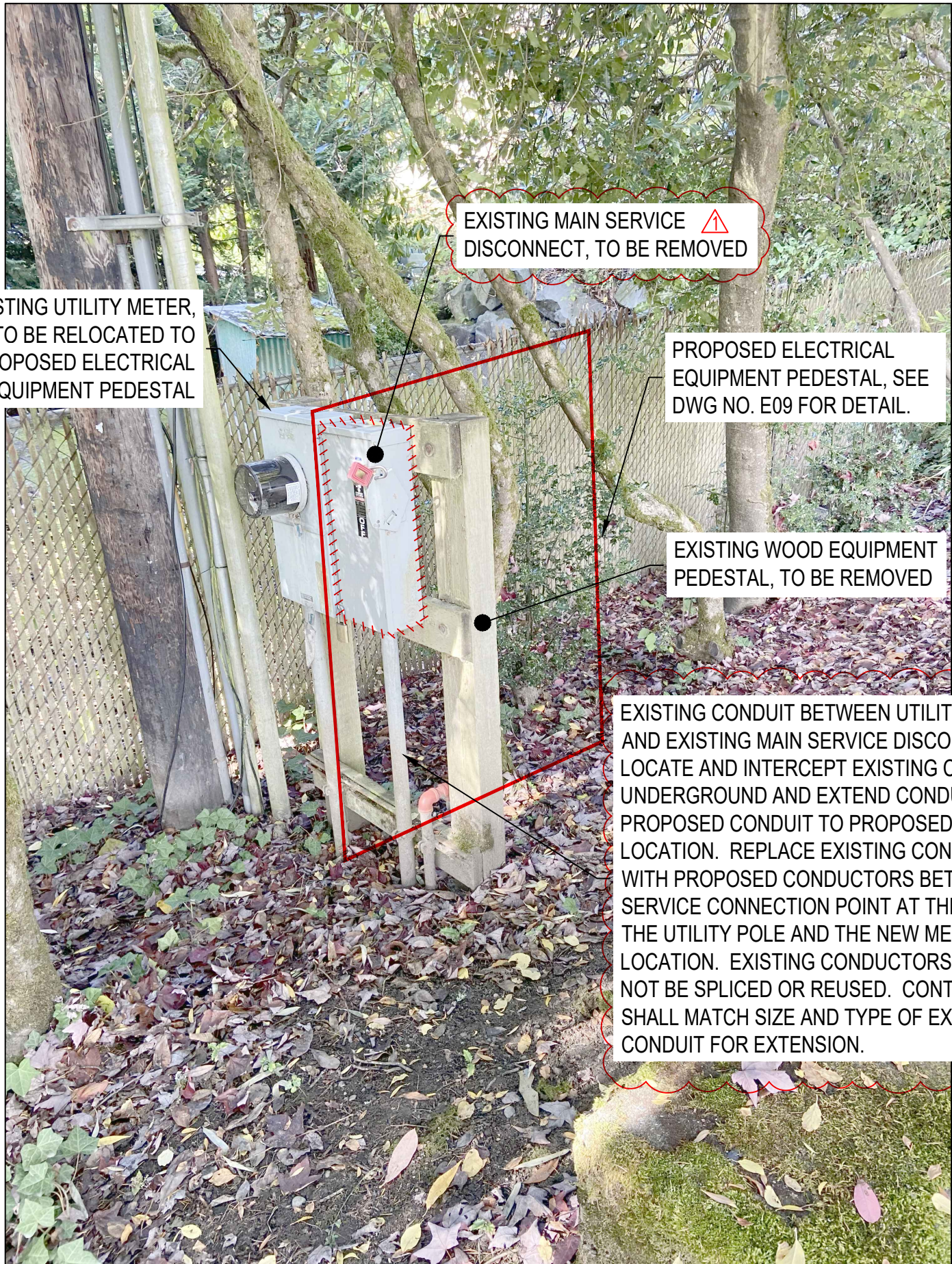
EXISTING GENERATOR VAULT INTERIOR



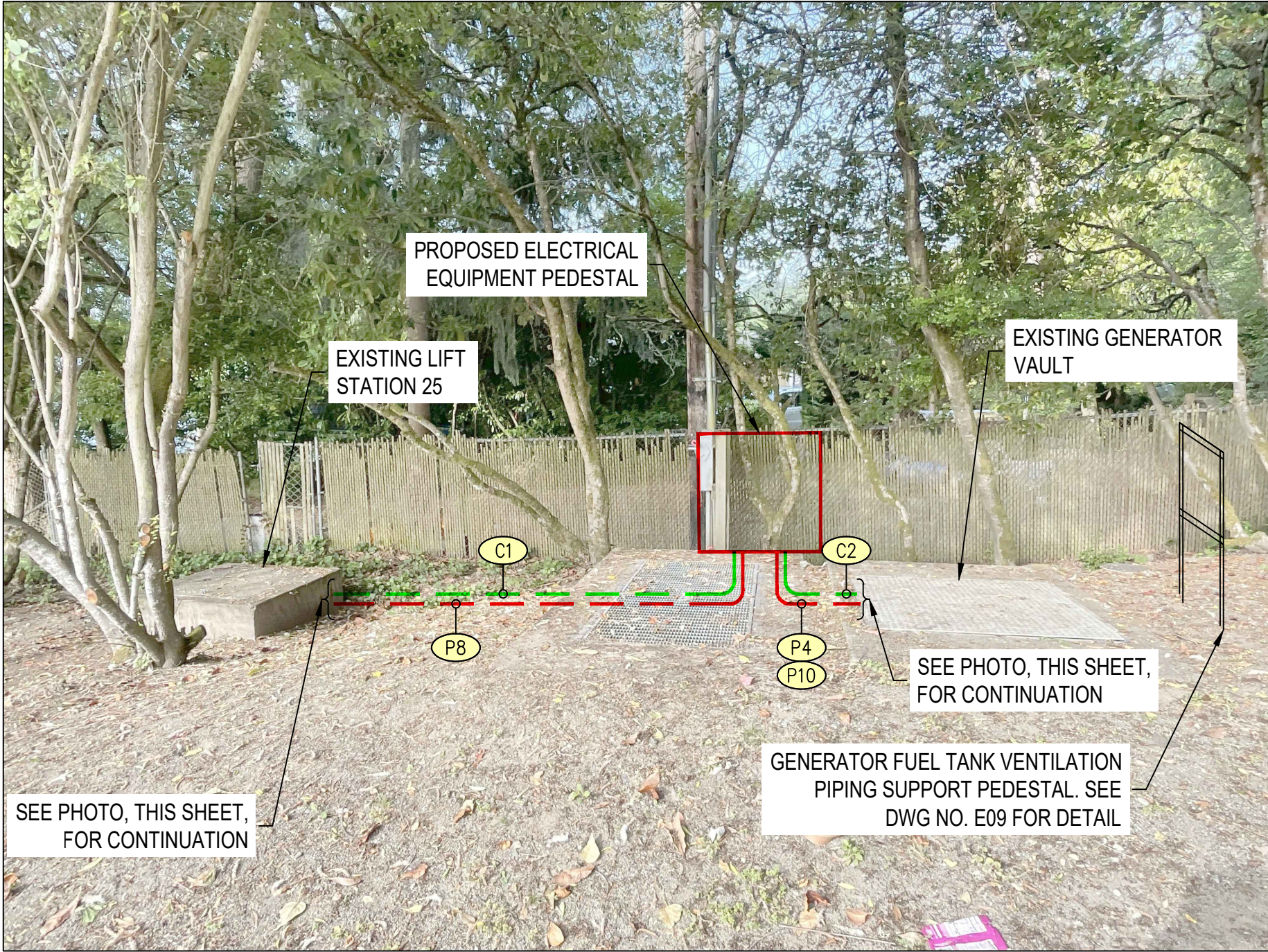
LIFT STATION 25



EXISTING PANEL. "PBD225"

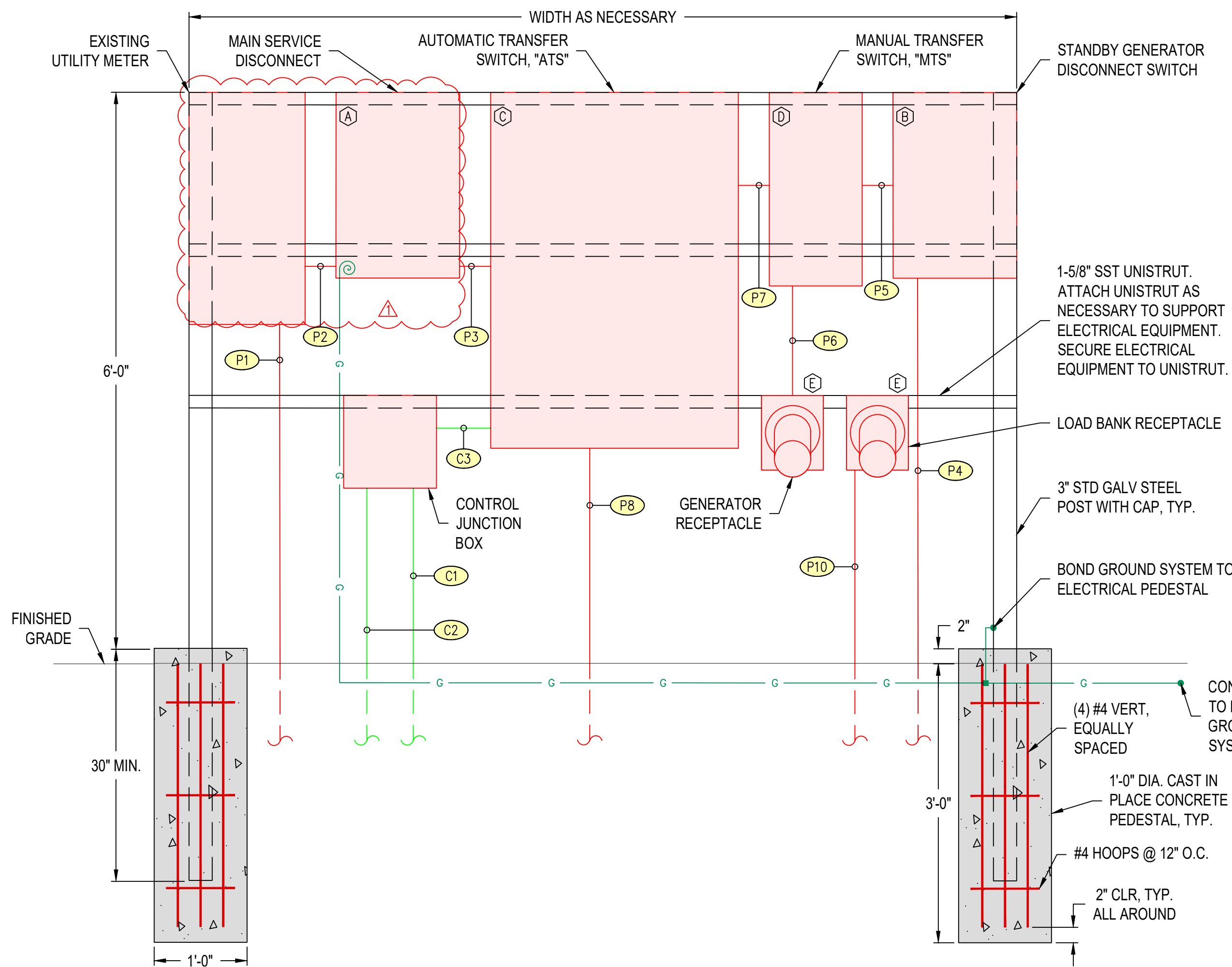


LIFT STATION 25 ELECTRICAL

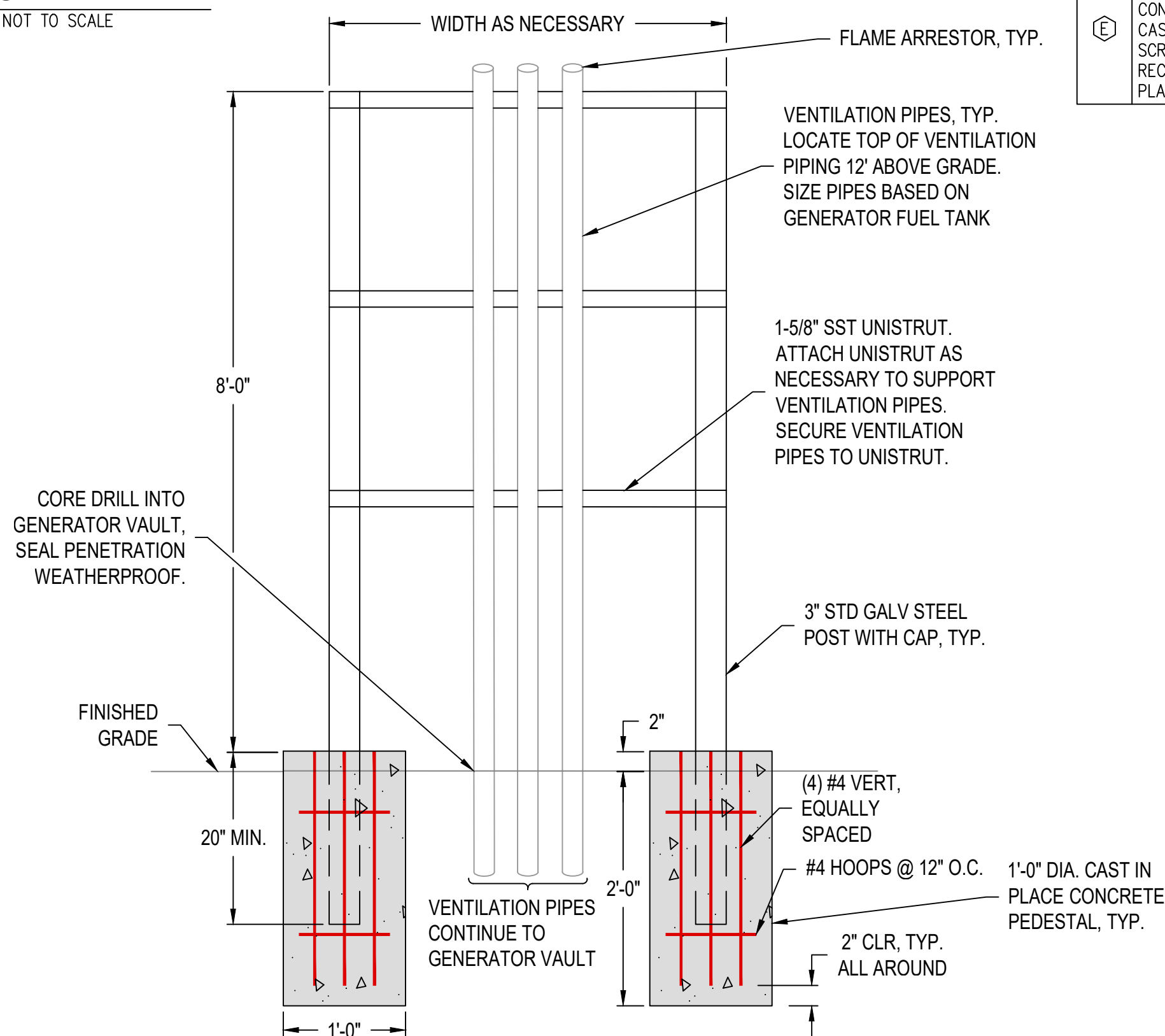


LIFT STATION 25 SITE

ELECTRICAL NOTES	
XX	1. SEE DWG NO. E09 FOR CONDUIT AND CONDUCTOR SCHEDULE.
X	2. SEE DWG NO. E09 FOR ELECTRICAL EQUIPMENT SCHEDULE.



**ELECTRICAL EQUIPMENT
PEDESTAL DETAIL**
NOT TO SCALE



**VENTILATION PIPE SUPPORT
PEDESTAL DETAIL**
NOT TO SCALE

POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
P1	EXISTING UTILITY SERVICE	EXISTING UTILITY METER	-	(3) - #3, (1) - #3 N	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT
P2	EXISTING UTILITY METER	MAIN SERVICE DISCONNECT	1 1/2"	(3) - #3, (1) - #3 N	
P3	MAIN SERVICE DISCONNECT	AUTOMATIC TRANSFER SWITCH, "ATS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P4	STANDBY GENERATOR	STANDBY GENERATOR DISCONNECT SWITCH	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P5	STANDBY GENERATOR DISCONNECT SWITCH	MANUAL TRANSFER SWITCH, "MTS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P6	GENERATOR RECEPTACLE	MANUAL TRANSFER SWITCH, "MTS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P7	MANUAL TRANSFER SWITCH, "MTS"	AUTOMATIC TRANSFER SWITCH, "ATS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P8	AUTOMATIC TRANSFER SWITCH, "ATS"	EXISTING PANEL, "PBD225"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P9	EXISTING PANEL, "PBD225"	EXISTING 240/120V PANEL	-	(3) - #12, (1) - #12 GRD	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT
P10	STANDBY GENERATOR	LOAD BANK RECEPTACLE	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P11	EXISTING 240/120V PANEL	GENERATOR BATTERY CHARGER	3/4"	(2) - #12, (1) - #12 GRD	
P12	GENERATOR BATTERY CHARGER	STANDBY GENERATOR	3/4"	(2) - #12, (1) - #12 GRD	

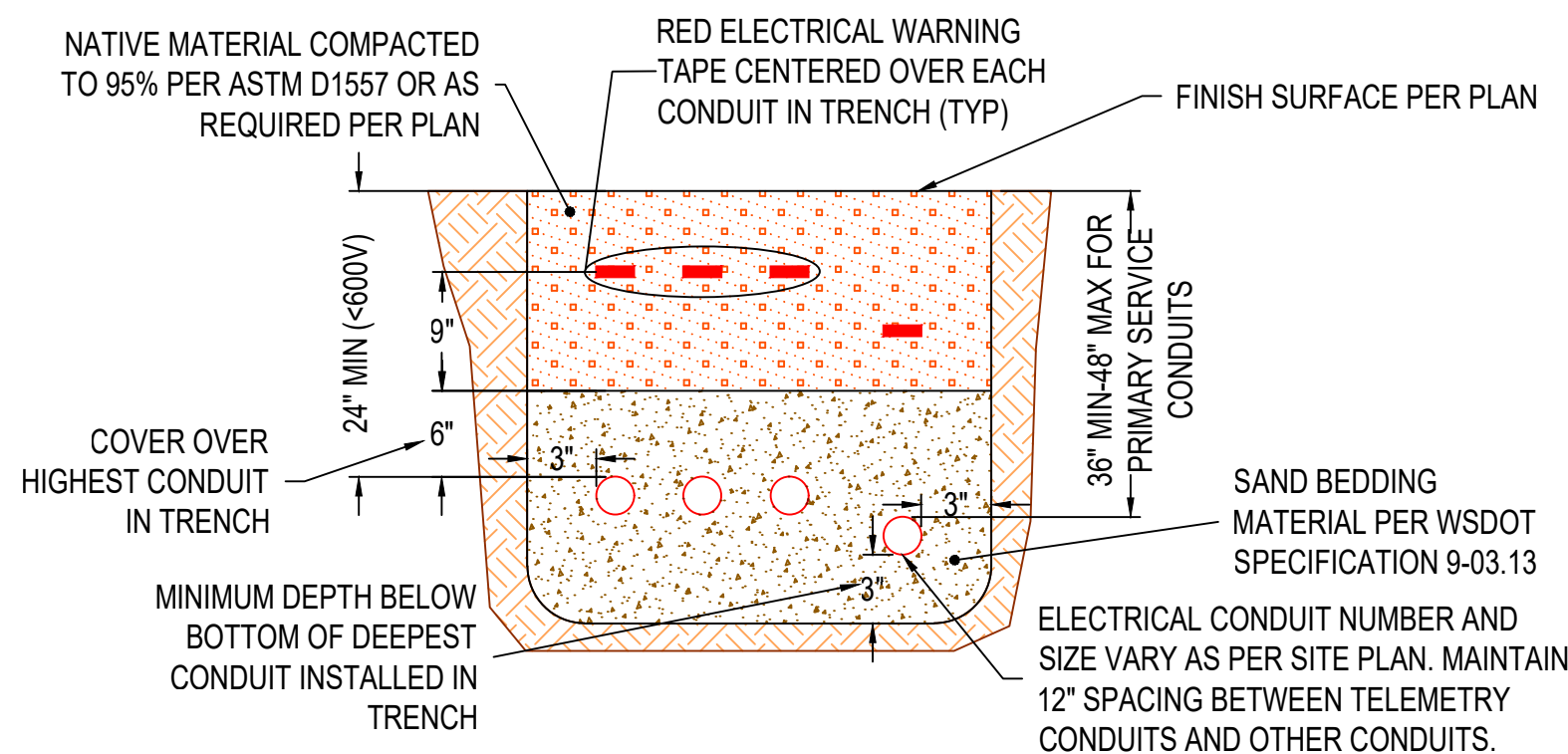
CONTROL CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
C1	EXISTING LIFT STATION 25 CONTROL PANEL	CONTROL JUNCTION BOX	3/4"	(16) - #14, (1) - #14 GRD	
C2	CONTROL JUNCTION BOX	STANDBY GENERATOR	3/4"	(11) - #14, (1) - #14 GRD	START SIGNAL FROM ATS, GENERATOR ALARMS TO LS-25 CONTROL PANEL
C3	CONTROL JUNCTION BOX	AUTOMATIC TRANSFER SWITCH, "ATS"	3/4"	(11) - #14, (1) - #14 GRD	START SIGNAL FROM ATS, ATS ALARMS TO LS-25 CONTROL PANEL

INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
J1	STANDBY GENERATOR	EXISTING LIFT STATION 25 CONTROL PANEL	-	(1) 2-CONDUCTOR SHIELDED CABLE	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT.

ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
A	MAIN SERVICE DISCONNECT SWITCH - NEMA 4X SS ENCLOSURE, HEAVY DUTY BREAKER, SERVICE ENTRANCE RATED, ELECTRONIC TRIP, 100 AMP, 240 VOLT, 3φ 42 KAIC WITHSTAND, CIRCUIT BREAKER SWITCH.	SIEMENS	SHJD6 OR EQUAL
B	GENERATOR DISCONNECT SWITCH - NEMA 4X SS ENCLOSURE, HEAVY DUTY BREAKER, ELECTRONIC TRIP, 100 AMP, 240 VOLT, 3φ 42 KAIC WITHSTAND, CIRCUIT BREAKER SWITCH. FLEX HANDLE OPERATOR MOUNTED ON SIDE OF ENCLOSURE.	SIEMENS	SHJD6 OR EQUAL
C	AUTOMATIC TRANSFER SWITCH - NEMA 4X SS ENCLOSURE, 100 AMP, 240 VOLT, 3 PHASE, 3 POLE, 42 KAIC WITHSTAND.	SEE SPECIFICATIONS	SEE SPECIFICATIONS
D	MANUAL TRANSFER SWITCH - 100 AMP, 3-PHASE, 600 VOLT, HEAVY DUTY DOUBLE THROW NON-FUSIBLE SAFETY SWITCH, NEMA 4X SS ENCLOSURE	SIEMENS	DTNF363S OR EQUAL
E	GENERATOR RECEPTACLE - 240 VOLT, 3-PHASE, 4 WIRE SERVICE, 100 AMP WITH LARGE WIRE RECESS AND REVERSED CONTACTS (FEMALE). RECEPTACLE SHALL BE PROVIDED WITH CAST BACK BOX, ANGLE ADAPTER, GASKETS, ADNA GASKETED SCREW-TYPE, WEATHERTIGHT CAP WITH CHAIN FASTENER. RECEPTACLE SHALL ACCOMMODATE CONDUCTOR SIZE SHOWN ON PLANS.	CROUSE-HINDS	ARKTITE AREA10426-S22

PROPOSED DISCRETE INPUTS		
EXISTING DIGITAL INPUT CARD		
SLOT	CHANNEL	NAME
5	4	GENERATOR RUN STATUS
5	5	GENERATOR FAULT
5	6	GENERATOR LOW FUEL ALARM
5	7	GENERATOR PRE-ALARM WARNING
5	8	ATS IN NORMAL
5	9	ATS IN GENERATOR
5	10	ATS UTILITY POWER AVAILABLE
5	11	GENERATOR VAULT FLOOD SWITCH ALARM

PROPOSED ANALOG INPUTS		
EXISTING ANALOG INPUT CARD		
SLOT	CHANNEL	NAME
11	2	GENERATOR FUEL LEVEL



TYPICAL ELECTRICAL TRENCH DETAIL
NOT TO SCALE

NOTE: BURY DEPTH OF CONDUIT AND HORIZONTAL SPACING SHALL BE CONFIRMED WITH SERVING UTILITY BEFORE CONSTRUCTION.



SIGNED: 05/21/2024

CITY OF MERCER ISLAND
SEWER PUMP STATION GENERATOR
REPLACEMENT



LS 25 ELECTRICAL DETAILS, SCHEDULES
AND TELEMETRY MODIFICATIONS

ENGINEER: MBD	DATE: Jun 19, 2024	CITY: MI	LOG NO.: 210-262	REVISIONS	NO.	DATE	DESCRIPTION	BY	REVIEW
REVIEWED: MWB	PLOT DATE: Jun 19, 2024	FILENAME: PSGR-D-ELEC03.DWG		6/19/2024			REVISED PER ADDENDUM 1		

SCALE: SHOWN	
0'	1'
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"	
DWG NO.: E09	SHEET NO.: 11