

City of Roseburg Water Treatment Plant Standby Generator Project No. 20WA03

SUMMER 2021

CONTACT PERSONNEL				
AGENCY	CONTACT	TITLE	PHONE	
CITY OF ROSEBURG CITY OF ROSEBURG	BRICE PERKINS, P.E. RYAN HERINCKX	PUBLIC WORKS DIRECTOR DESIGN AND CONSTRUCTION MANAGER	541-492-6730 541-492-6884	
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SHEET NUMBER	DESCRIPTION	DWG NO.
	COVER	_
1	WINCHESTER WTP - EXISTING SITE PLAN	C01
2	RESERVOIR HILL — EXISTING SITE PLAN	C02
3	WINCHESTER WTP - PROPOSED SITE AND UTILITY PLAN	C03
4	RESERVOIR HILL - PROPOSED SITE AND UTILITY PLAN	C04
5	CIVIL DETAILS	C05
6	ELECTRICAL LEGEND	E01
7	DIXONVILLE PUMP STATION NO. 2 - ONE-LINE DIAGRAM	E02
8	DIXONVILLE PUMP STATION NO. 2 - ELECTRICAL PLAN	E03
9	GARDEN VALLEY PUMP STATION - ONE-LINE DIAGRAM	E04
10	GARDEN VALLEY PUMP STATION — ELECTRICAL PLAN	E05
11	HAWTHORNE PUMP STATION - ONE-LINE DIAGRAM	E06
12	HAWTHORNE PUMP STATION — ELECTRICAL PLAN	E07
13	KLINE PUMP STATION — ONE—LINE DIAGRAM	E08
14	KLINE PUMP STATION — ELECTRICAL PLAN	E09
15	RESERVOIR HILL — ONE-LINE DIAGRAM	E10
16	RESERVOIR HILL — ELECTRICAL SITE PLAN	E11
17	RESERVOIR HILL — ELECTRICAL PLAN	E12
18	RESERVOIR HILL — GENERATOR DETAILS	E13
19	RESERVOIR HILL — RESERVOIRS 5, 6, 7 RADIO PANEL INPUT WIRING	E14
20	VENTURA PUMP STATION — ONE LINE DIAGRAM	E15
21	VENTURA PUMP STATION — ELECTRICAL PLAN	E16
22	WINCHESTER WTP - ONE-LINE DIAGRAM	E17
23	WINCHESTER WTP - ELECTRICAL SITE PLAN	E18
24	WINCHESTER WTP - ELECTRICAL PLAN 1	E19
25	WINCHESTER WTP - ELECTRICAL PLAN 2	E20
26	WINCHESTER WTP - GENERATOR DETAILS	E21
27	WINCHESTER WTP - FUEL TANK DETAILS	E22
28	WINCHESTER WTP - ELECTRICAL SCHEDULES	E23
29	WINCHESTER WTP - REMOTE IO PANEL LAYOUT	E24
30	WINCHESTER WTP — REMOTE IO POWER AND COMMUNICATIONS DIAGRAM	E25
31	WINCHESTER WTP — REMOTE IO PANEL INPUT AND OUTPUT WIRING	E26
32	ELECTRICAL DETAILS	E27

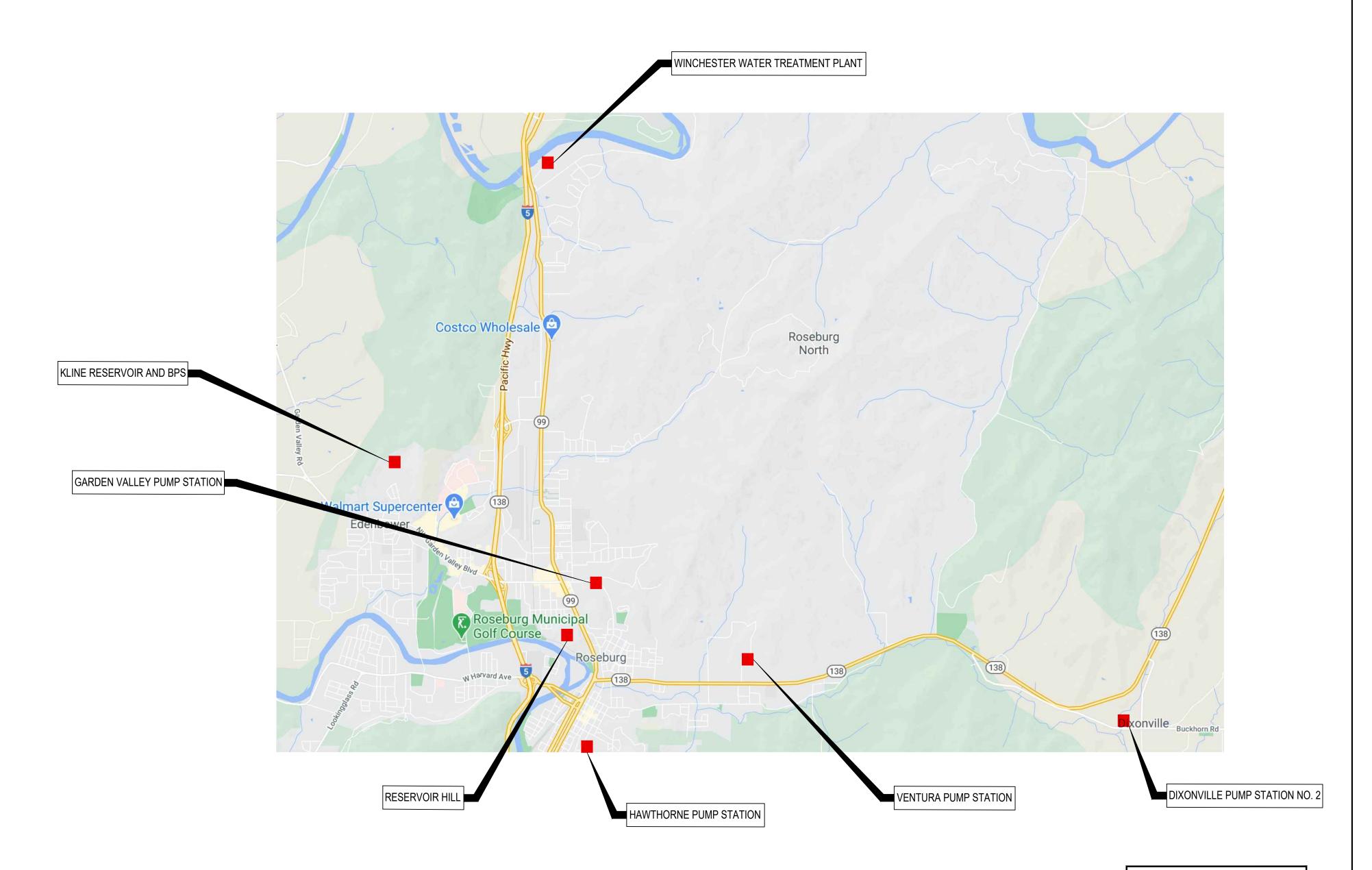
3	WINCHESTER WTP - PROPOSED SITE AND UTILITY PLAN	C03
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14	KLINE PUMP STATION — ELECTRICAL PLAN	E09
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17	RESERVOIR HILL — ELECTRICAL PLAN	E12
18	RESERVOIR HILL — GENERATOR DETAILS	E13
19	RESERVOIR HILL — RESERVOIRS 5, 6, 7 RADIO PANEL INPUT WIRING	E14
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25	WINCHESTER WTP - ELECTRICAL PLAN 2	E20
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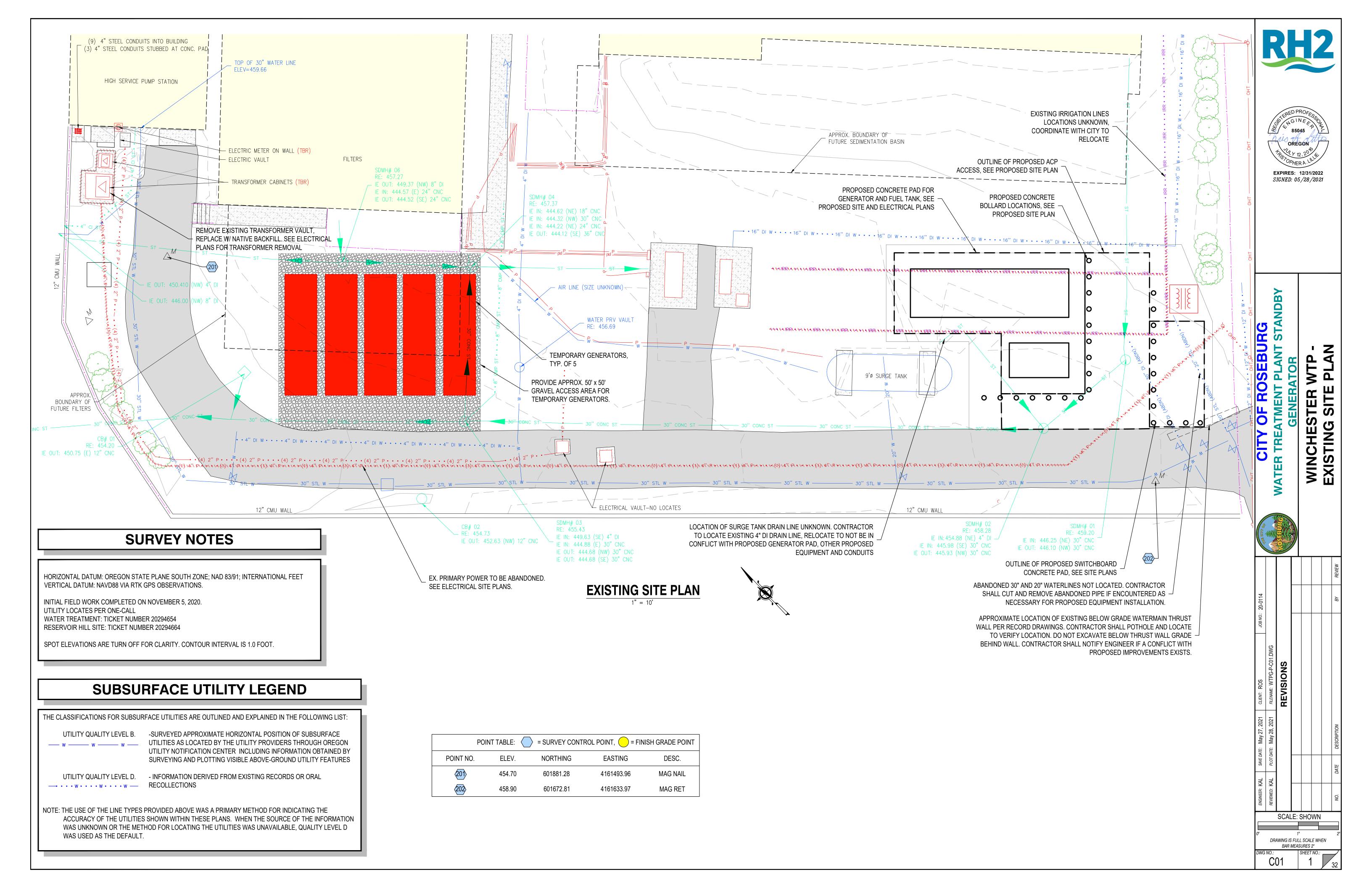


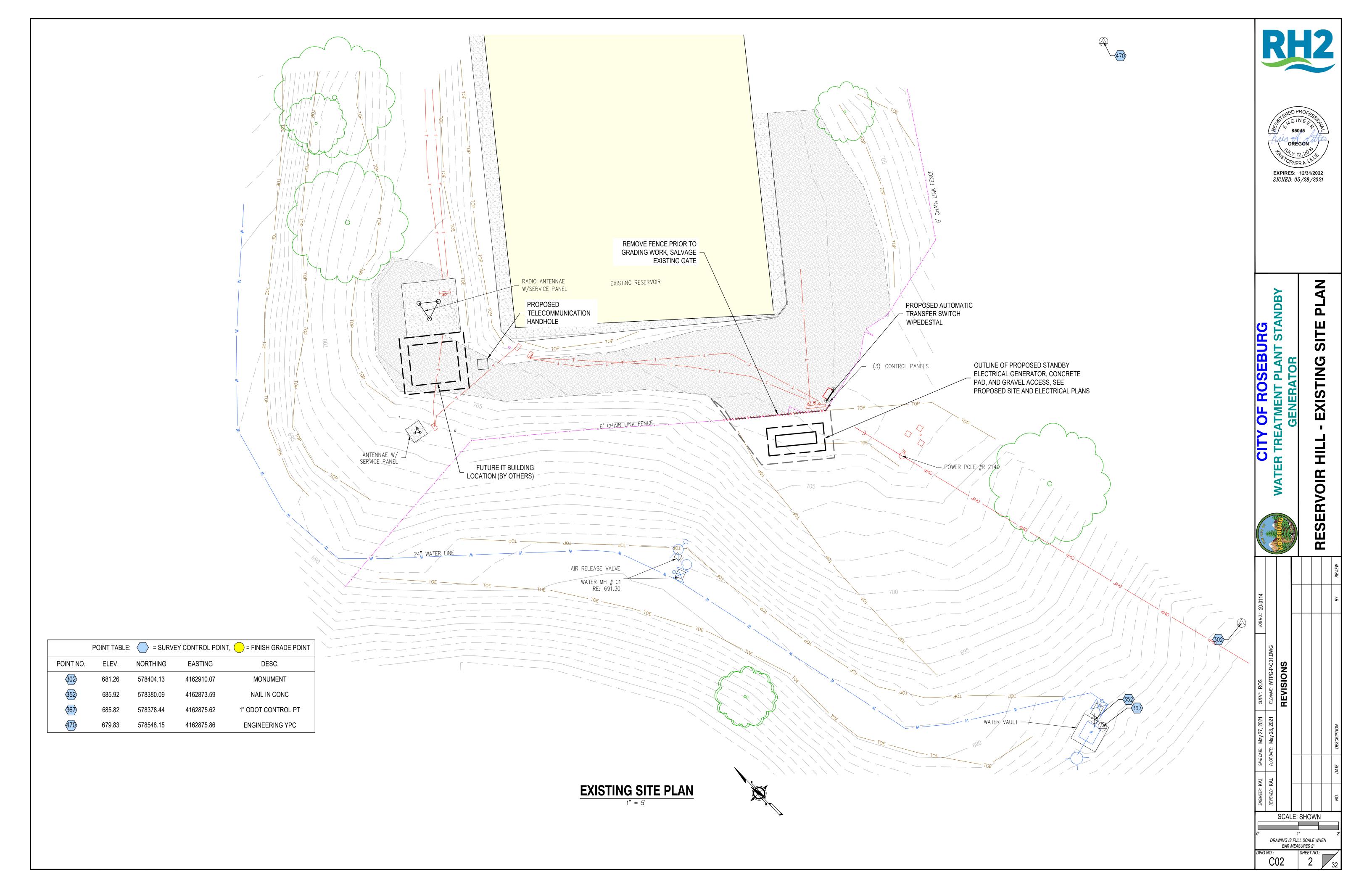
PROJECT LOCATIONS 1882 BUCKHORN ROAD, ROSEBURG, OR DIXONVILLE PUMP STATION NO. 2 GARDEN VALLEY PUMP STATION 1111 NE GARDEN VALLEY BOULEVARD, ROSEBURG, OR HAWTHORNE PUMP STATION 1317 SE HAWTHORNE DRIVE, ROSEBURG, OR 2843 NW KLINE STREET, ROSEBURG, OR KLINE RESERVOIR AND BPS RESERVOIR HILL 707 NE BELLVIEW AVE, ROSEBURG, OR VENTURA PUMP STATION 580 NE VENTURA STREET, ROSEBURG, OR WINCHESTER WATER TREATMENT PLANT 180 PIONEER WAY, WINCHESTER, OR

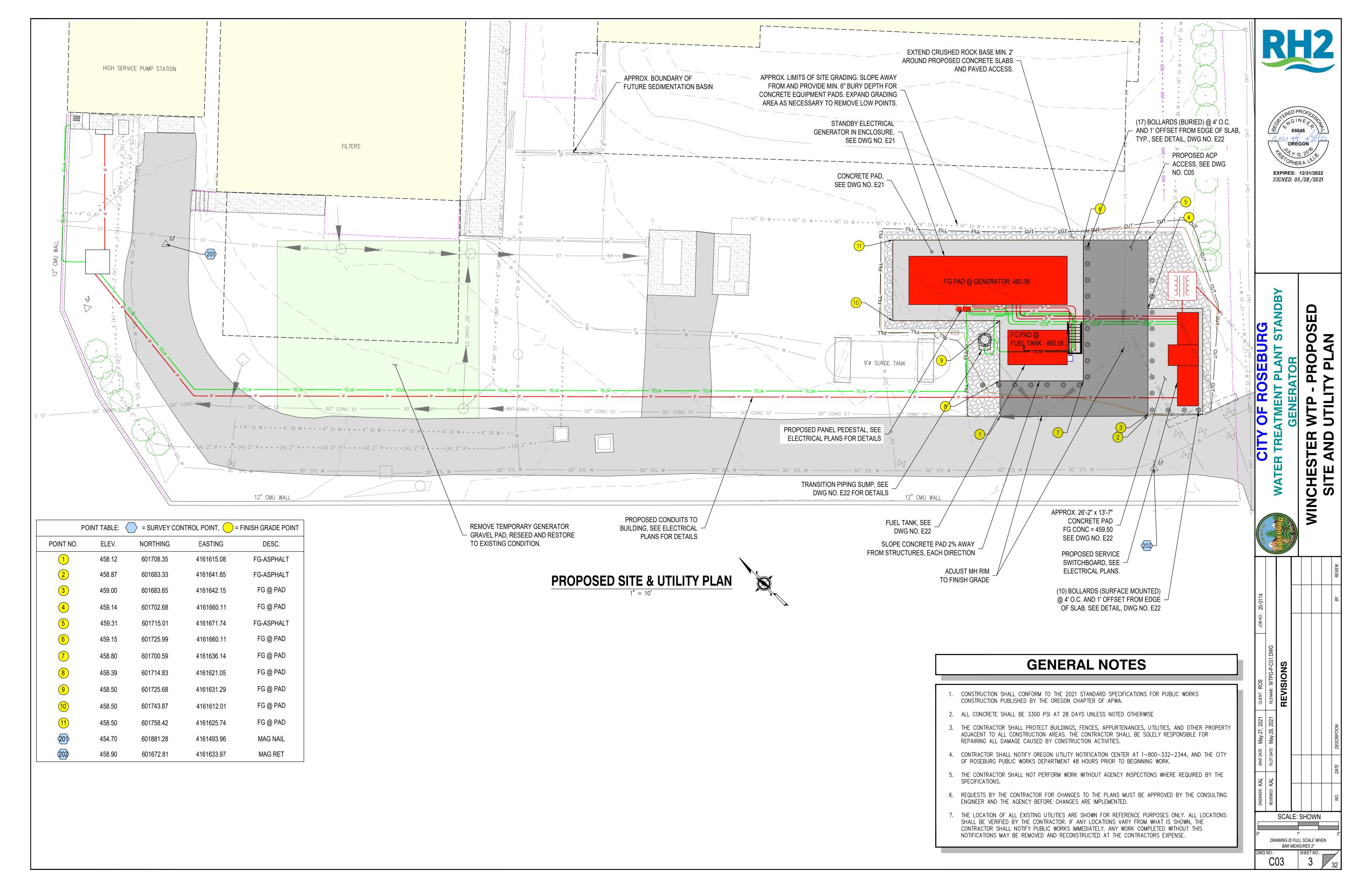


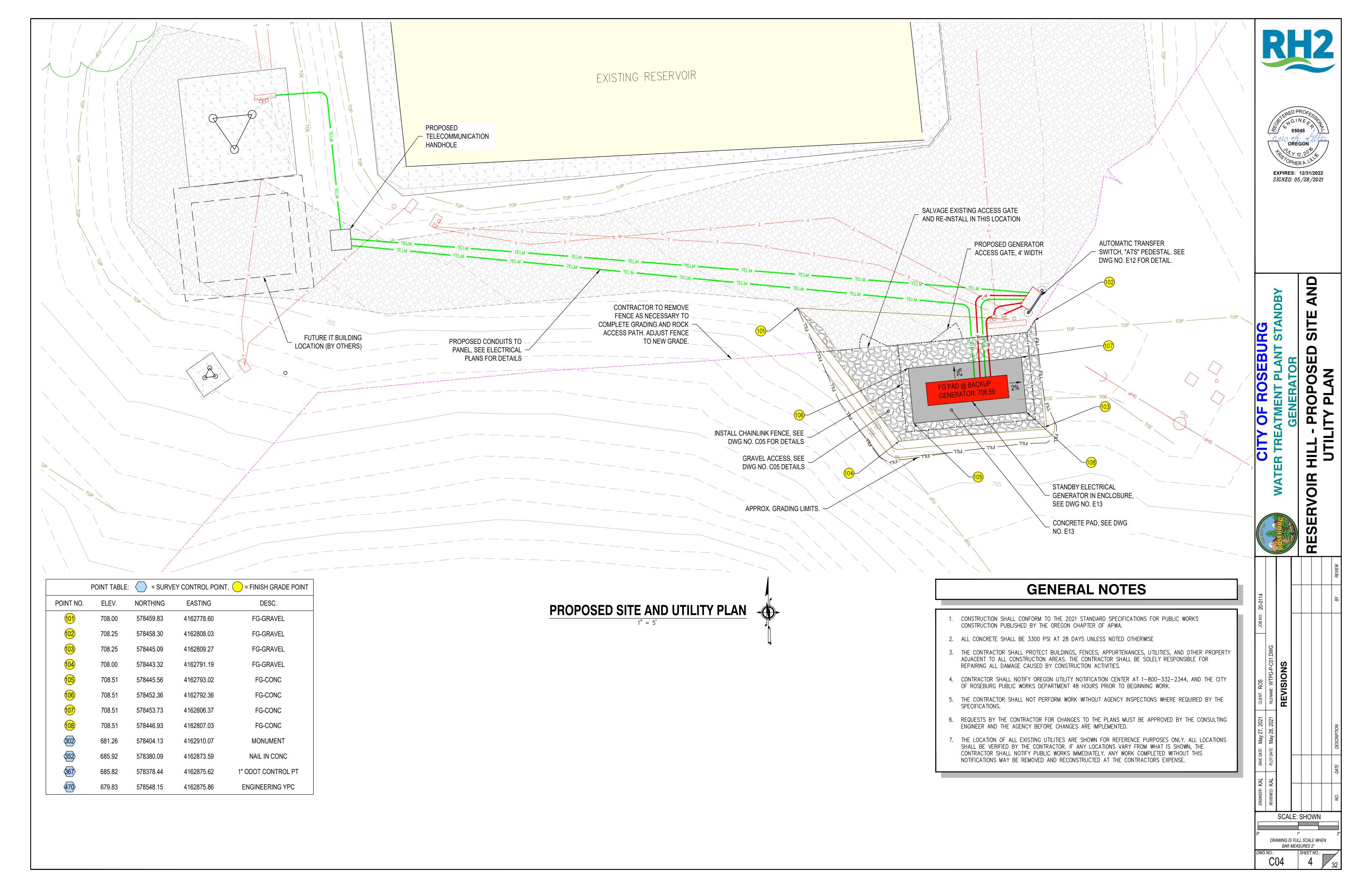


MAP DISCLAIMER MAPS THIS SHEET PROVIDED BY



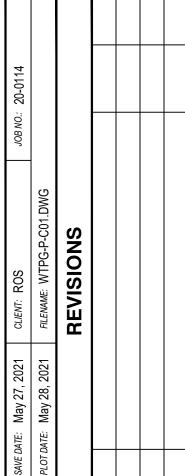






DETAILS

WATER



SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

14 GAUGE GALV BARBS IN A 4-POINT FENCE NOTES — PATTER @ 5" O.C., 3 WIRES WITH 9 GAGE WIRE 6 GAGE WIRE OR 9 GAUGE GALVANIZED WIRE MESH. 2%" O.D. LINE POST _ CLIPS, @ 24" PRESSED STEEL 45° ARM BANDS, @ 14" MAX. @ 10' O.C. FENCE HEIGHT IS MEASURED FROM TOP OF MESH TO FINISHED GROUND SURFACE

— 10' МАХ, ТҮР. —

NO VINYL COATING. - 2%" O.D. END POST — TENSION WIRE — ¾" TIE ROD 1%" O.D. - INTERMEDIATE BRACE RAIL

CHAINLINK FENCE DETAIL

WIDTH VARIES, (SEE POINT TABLE DWG. CO2) 6" COMPACTED DEPTH OF DENSE-GRADED AGGREGATE ACP WEARING COURSE LEVEL 2. 3/4"-0" OVER 12" COMPACTED DEPTH OF DENSE-GRADED 1/2" DENSE, NOM. THICKNESS - 3" AGGREGATE 4"-0" PER ODOT 2630.10, COMPACT TO 95% OF MODIFIED PROCTOR, TYP / FILL AT 2H:1V SLOPE SLOPE - 2% PREPARE SUBGRADE TO A FIRM AND UNYIELDING GEOTEXTILE FABRIC, MIRAFI CONDITION. SUBGRADE TO BE STRIPPED AND PROOF — 500X OR EQUAL ROLLED PRIOR TO ROCK PLACEMENT.

− 2¾" O.D. GATE POST

GATE FRAME, 1%" O.D.

TOP HINGE

180° SWING

PER PLAN

(6' MAX)

CHAINLINK ACCESS GATE DETAIL

NOT TO SCALE

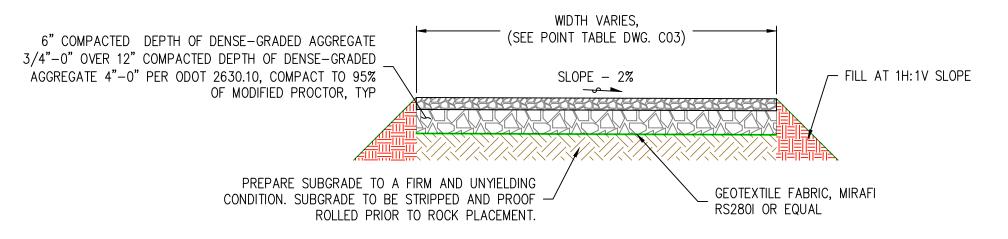
PER FENCE

DETAIL

BOTTOM HINGE

180° SWING

PROPOSED ACP ACESS PAD



PROPOSED GRAVEL ACESS PAD

2. ALL POSTS AND RAILS SHALL BE SCHED. 40 STEEL PIPE UNLESS OTHERWISE

ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED PER THE TECHNICAL SPECIFICATIONS BASED ON MATERIAL TYPE. POSTS AND RAILS TO GRADE 1. FABRIC TO CLASS 1. HARDWARE TO MATCH GALVANIZING REQUIREMENTS TO

ALL FABRIC SHALL BE CORE WIRE GAUGE 9 AND 2-INCH MESH. EXCEPT FOR

TWISTED. TOP SELVAGE OF RAILING EQUIVALENT FENCE SHALL BE KNUCKLED. LEAVE NO MORE THAN 3-INCH GAP BETWEEN FINISHED GROUND SURFACE AND

RAILING EQUIVALENT FENCE, TOP AND BOTTOM FABRIC SELVAGES SHALL BE

ALL GATE FRAMES SHALL BE SIZED AND CONSTRUCTED TO MEET CHAINLINK FENCE MANUFACTURERS INSTITUTE PRODUCT MANUAL SPECIFICATIONS, MINIMUM.

6. ADJUST FENCE POST LOCATIONS TO AVOID CONFLICT WITH UTILITIES OR OTHER

LINE, END, CORNER & PULL POST | 6 | 24 | 40 |

FENCE FOOTING FOOTING POST HEIGHT DIA. DEPTH EMBEDMENT

(IN) (MIN. IN)

34

(IN)

GATE POST 6 24 48

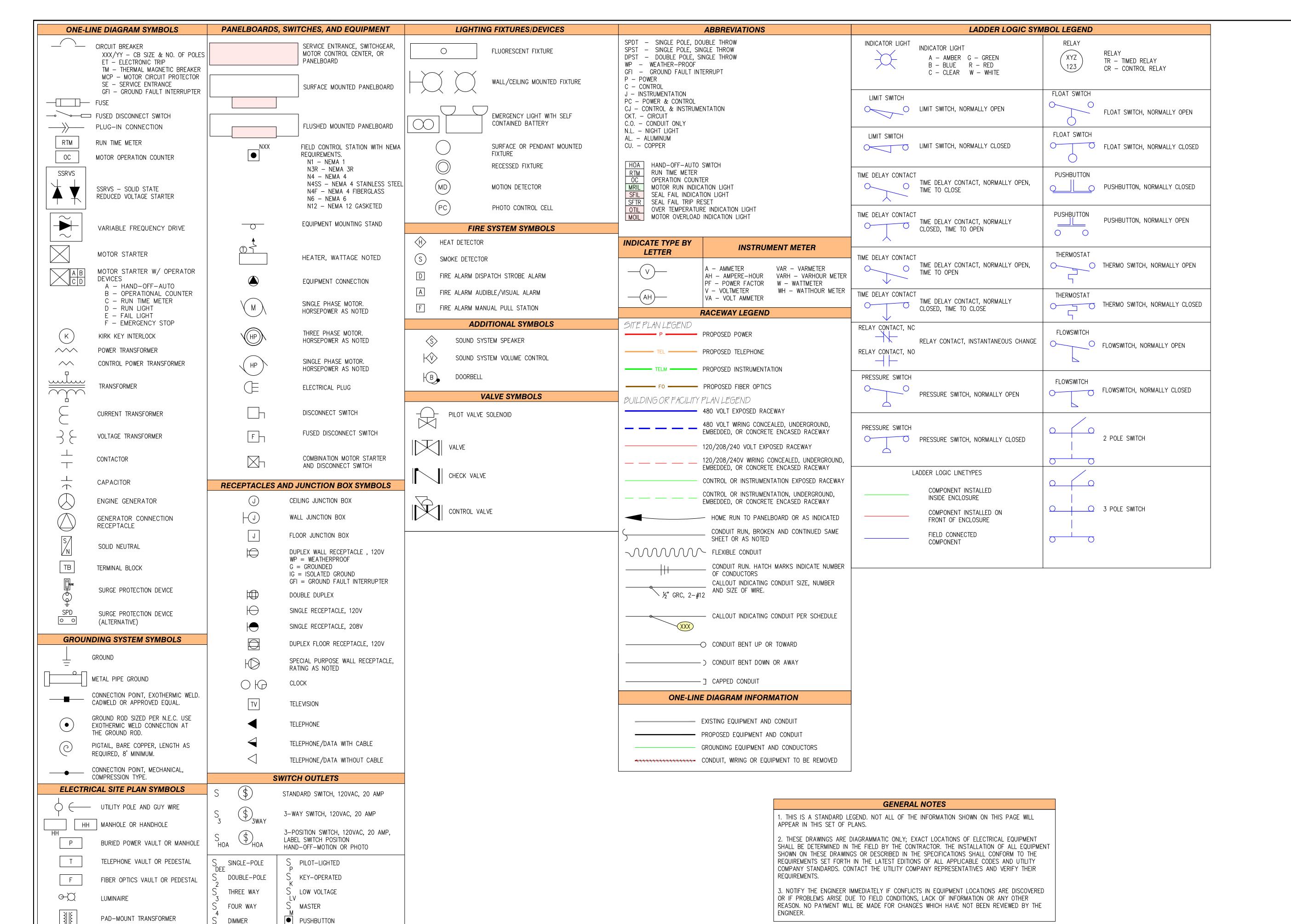
NOTED, SIZE NOTED ON PLANS SHALL BE O.D.

STRUCTURES. MINIMUM 2' CLEARANCE.

FOOTING SCHEDULE

WHICH IT IS ATTACHED.

BOTTOM SELVAGE.



OCCUPANCY

OS SENSOR





(5

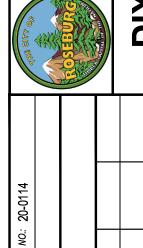
SCALE: SHOWN DRAWING IS FULL SCALE WHEN

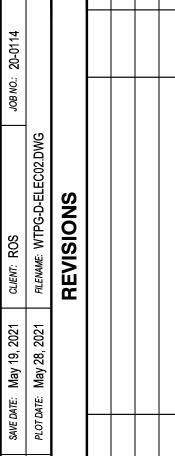
BAR MEASURES 2"



P STATION DIAGRAM

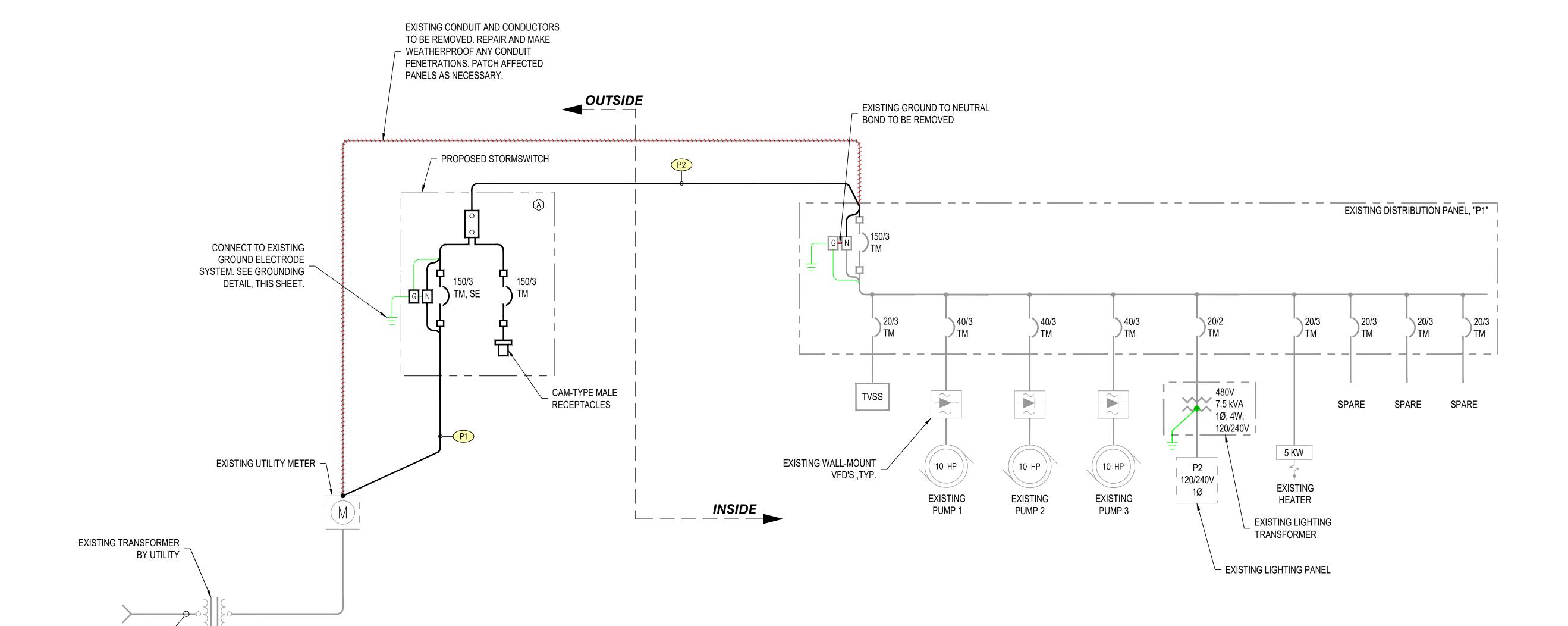
ONE-LINE D





SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



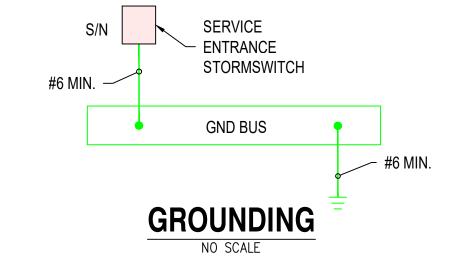
DIXONVILLE PUMP STATION NO. 2 - ONE-LINE DIAGRAM

	ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE					
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.			
A	STORMSWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS			

EXISTING PRIMARY

SERVICE

	POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES	
	EXISTING UTILITY METER	PROPOSED STORMSWITCH	1 1/2"	(3) - #1/0, (1) - #1/0 N		
P2	PROPOSED STORMSWITCH	EXISTING DISTRIBUTION PANEL, "P1"	2"	(3) - #1/0, (1) - #1/0 N, (1) - #6 GRD		

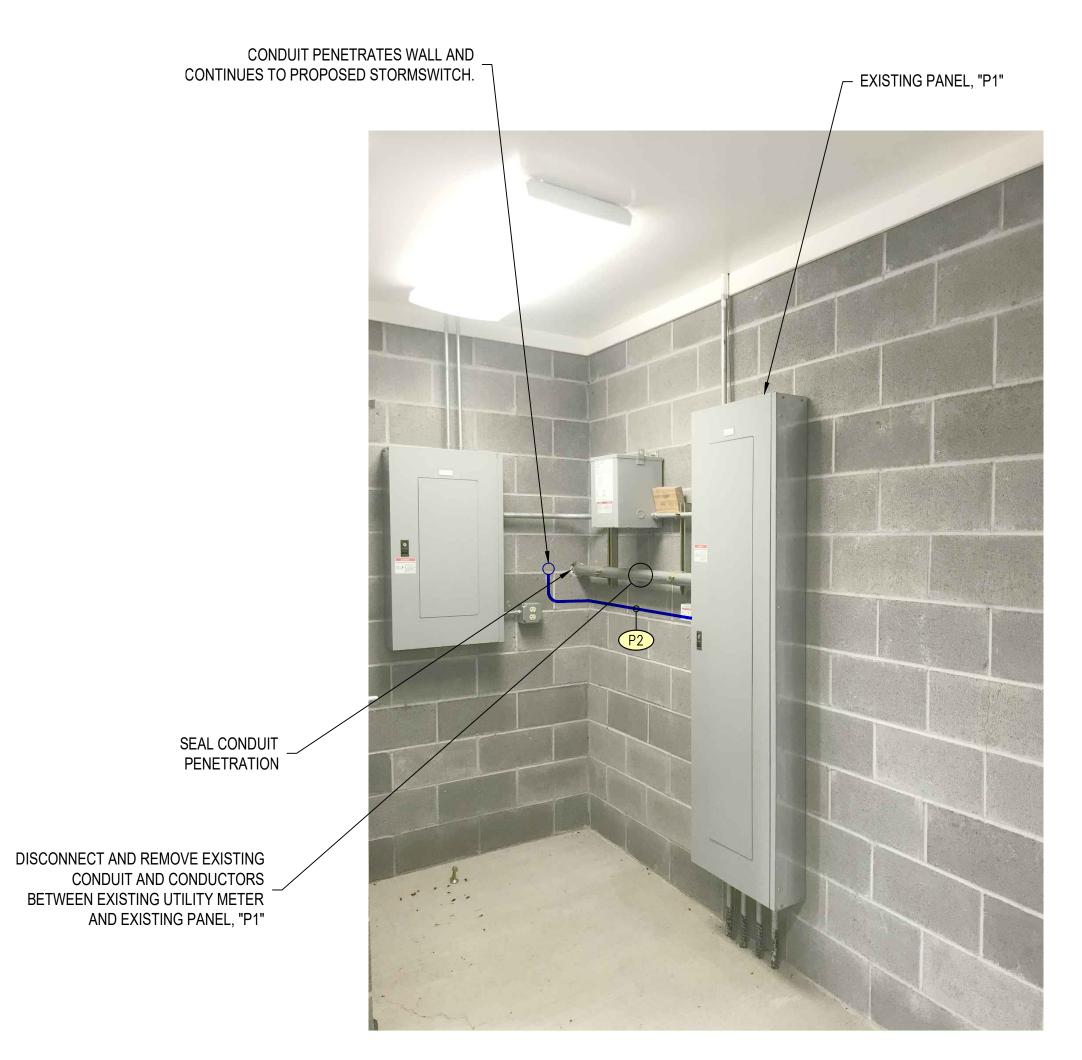




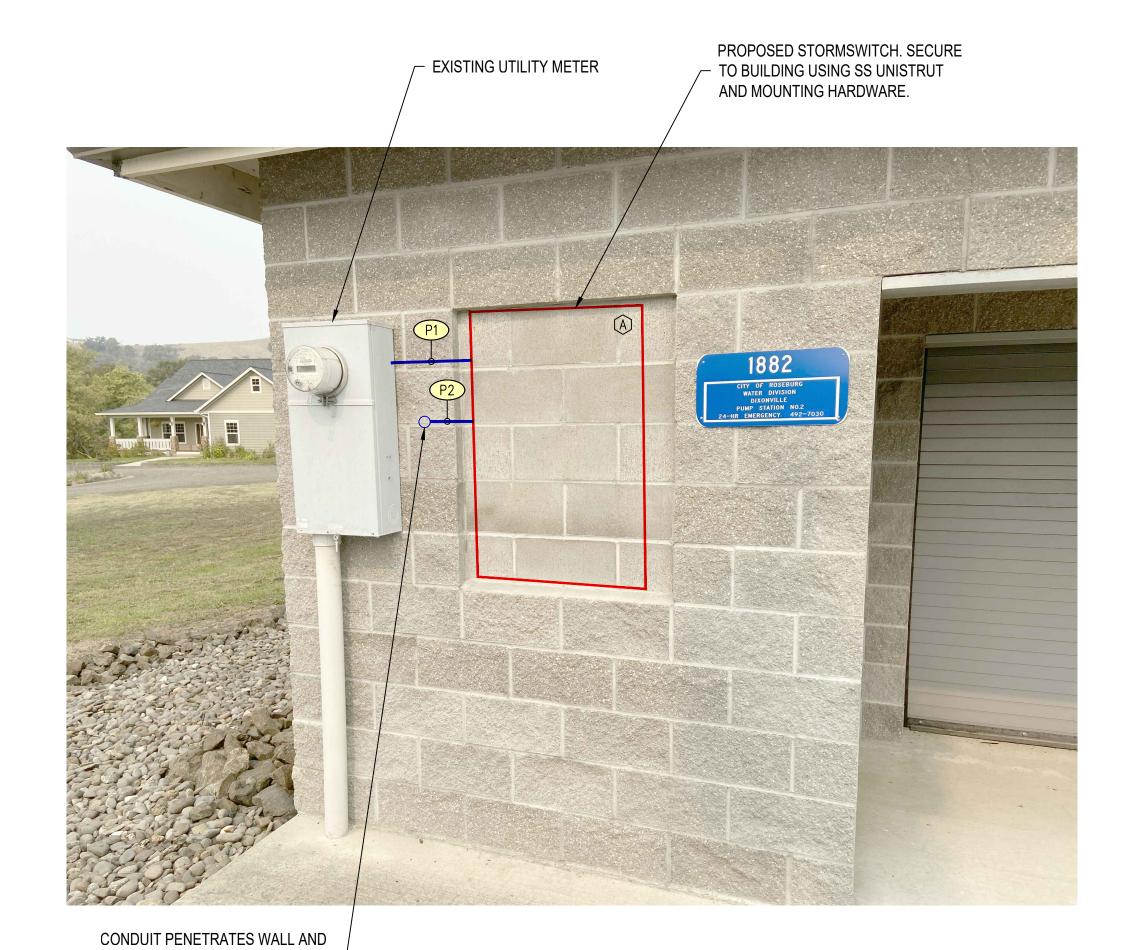
STATION







EXISTING PANELS
NO SCALE



EXISTING UTILITY METER
NO SCALE PENETRATION SHALL BE GROUTED AND SEALED WATER TIGHT.

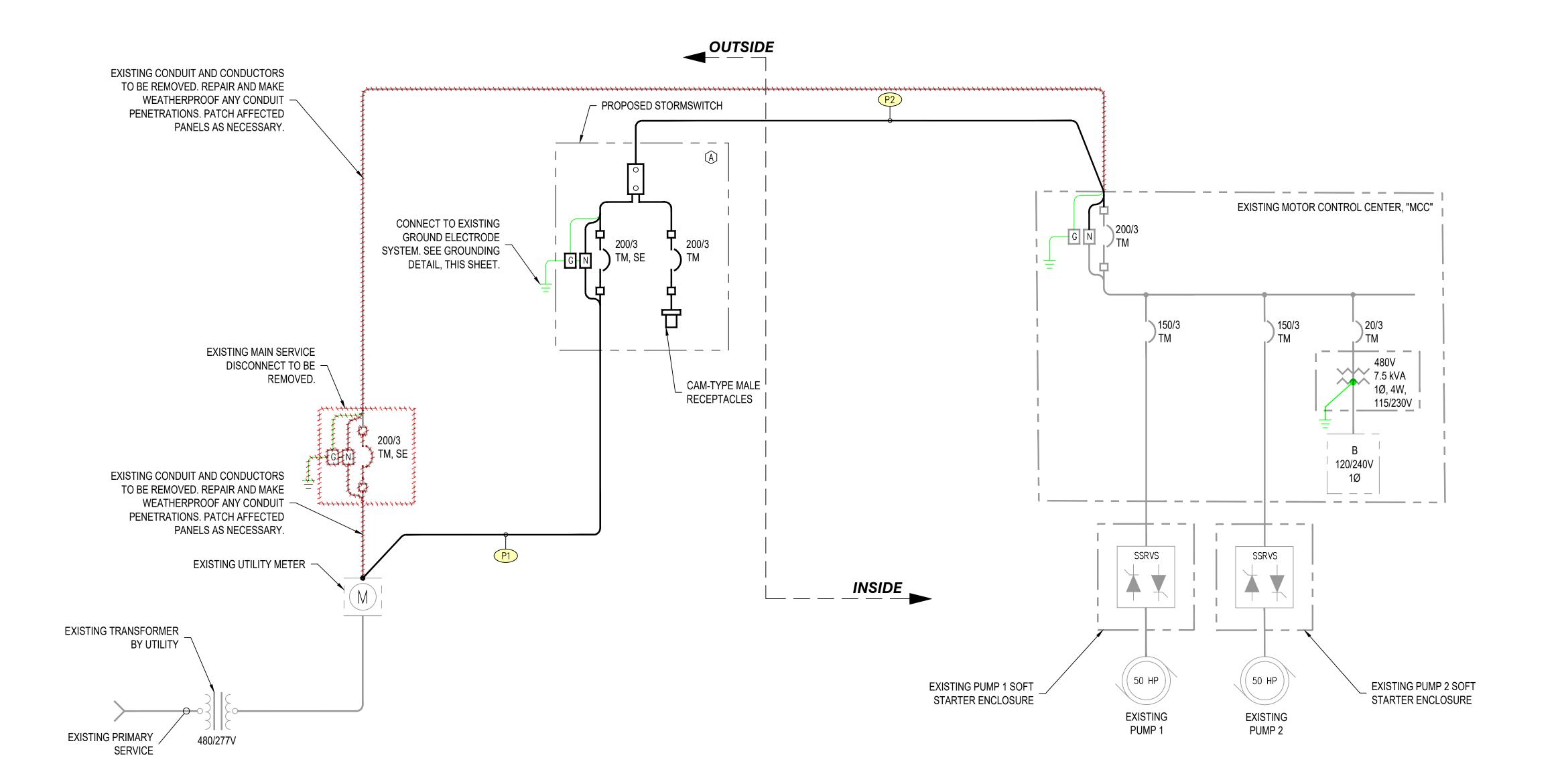
ELECTRICAL NOTES

1. SEE DWG NO. E02 FOR CONDUIT AND CONDUCTOR SCHEDULE.

CONTINUES TO EXISTING PANEL, "P1".

2. SEE DWG NO. E02 FOR ELECTRICAL EQUIPMENT SCHEDULE.

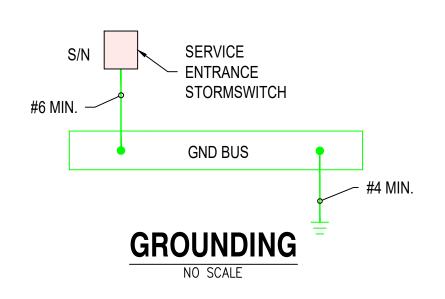
SCALE: SHOWN



GARDEN VALLEY PUMP STATION - ONE-LINE DIAGRAM

	ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE						
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.				
A	STORMSWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS				

	POWER CONDUIT AND CONDUCTOR SCHEDULE						
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES		
P1	EXISTING UTILITY METER	PROPOSED STORMSWITCH	2"	(3) - #3/0, (1) - #3/0 N			
P2	PROPOSED STORMSWITCH	EXISTING MOTOR CONTROL CENTER, "MCC"	2"	(3) - #3/0, (1) - #3/0 N, (1) - #6 GRD			







WATER TREATMENT PLANT STAN GENERATOR

EN VALLEY ONE-LINE

DE

GAR

 SAVE DATE:
 May 19, 2021
 CLIENT:
 ROS
 JOB NO:
 20-0114

 PLOT DATE:
 May 28, 2021
 FILENAME:
 WTPG-D-ELEC03.DWG

**PLOT DATE: May 28, 2021

**PLOT DATE: May 28,

SCALE: SHOWN



EXISTING CONDUIT TO

CENTER, "MCC".

EXISTING CONDULET

INSTALL PROPOSED

CONDUCTORS IN EXISTING CONDUIT TO EXISTING MOTOR

CONTROL CENTER, "MCC".

EXISTING MOTOR CONTROL

DE

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

CONDUIT PENETRATES WALL AND CONTINUES TO -PROPOSED STORMSWITCH.

EXISTING CONDUIT

NO SCALE

DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM EXISTING MAIN SERVICE DISCONNECT TO EXISTING MOTOR CONTROL CENTER, "MCC".
DISCONNECT AND REMOVE CONDUIT FROM EXISTING MAIN SERVICE

DISCONNECT TO EXISTING CONDULET. SEAL CONDUIT PENETRATION.

EXISTING UTILITY METER AND MAIN SERVICE DISCONNECT
NO SCALE

CONDUIT PENETRATES WALL AND

CONTINUES TO EXISTING MOTOR CONTROL

PROPOSED STORMSWITCH. SECURE

TO BUILDING USING SS UNISTRUT AND MOUNTING HARDWARE.

CENTER, "MCC". PENETRATION SHALL BE

GROUTED AND SEALED WATER TIGHT.

ELECTRICAL NOTES

EXISTING MAIN SERVICE

DISCONNECT TO BE REMOVED.

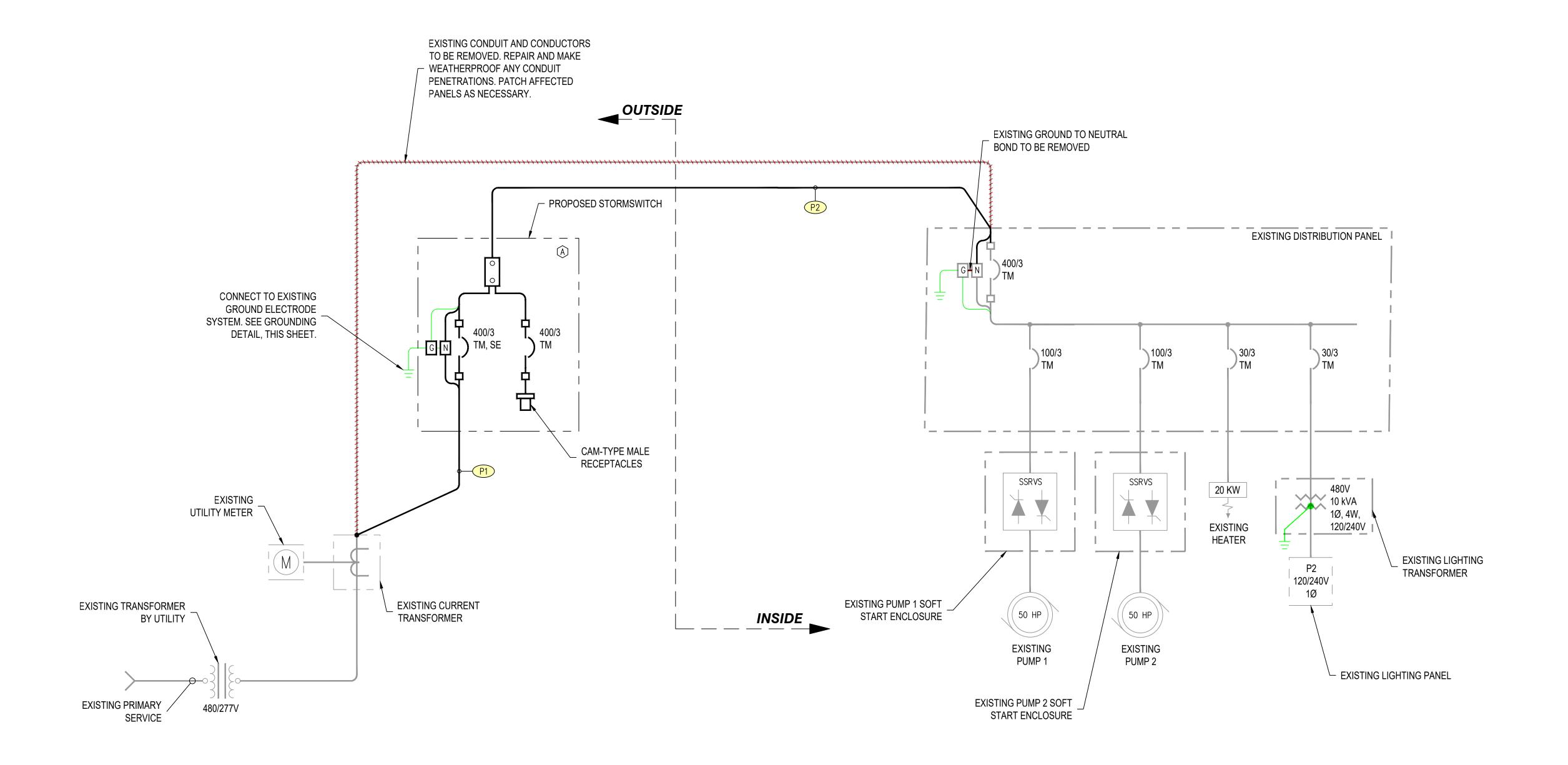
EXISTING UTILITY METER -

1. SEE DWG NO. E04 FOR CONDUIT AND CONDUCTOR SCHEDULE.

2. SEE DWG NO. E04 FOR ELECTRICAL EQUIPMENT SCHEDULE.

EXISTING SHRUB TO BE

REMOVED.



HAWTHORNE PUMP STATION - ONE-LINE DIAGRAM

ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE						
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.			
A	STORMSWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS			

	POWER CONDUIT AND CONDUCTOR SCHEDULE						
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES		
P1	EXISTING CURRENT TRANSFORMER	PROPOSED STORMSWITCH	3 1/2"	(3) - #600 MCM, (1) - #600 MCM N			
P2	PROPOSED STORMSWITCH	EXISTING DISTRIBUTION PANEL	4"	(3) - #600 MCM, (1) - #600 MCM N, (1) - #3 GRD			





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UMP STATION DIAGRAM

ROSEBURG

IENT PLANT STANDBY

NERATOR

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NO ALIS SIND	DY DEEKS OF	September OF THE	X	
				ĺ

							REVIEW	
JOB NO.: 20-0114							BY	
JOB NO.								
CLIENT: ROS	FILENAME: WTPG-D-ELEC04.DWG	REVISIONS						
SAVE DATE: May 19, 2021	<i>PLOT DATE:</i> Мау 28, 2021						DESCRIPTION	
SAVED	PLOTE						DATE	
: KES	CMR							
ENGINEER: KES	REVIEWED: CMR						NO.	
	SCALE: SHOWN							

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

SERVICE - ENTRANCE

GND BUS

GROUNDING

#1/0 MIN.

STORMSWITCH

// #1/0 MIN.

CONTINUATION.

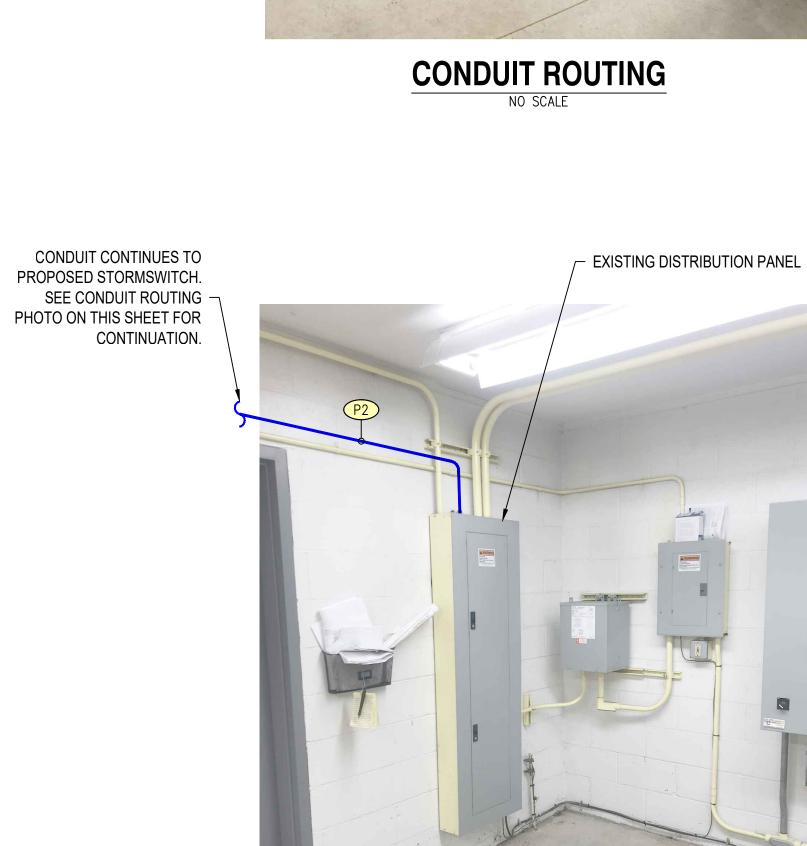
EXPIRES: 12/31/2022 SIGNED: 05/28/2021

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

CONDUIT PENETRATES WALL AND CONTINUES TO PROPOSED STORMSWITCH.





EXISTING PANELS

EXISTING UTILITY METER AND CURRENT TRANSFORMER

EXISTING UTILITY METER

CONDUIT PENETRATES WALL AND

AND SEALED WATER TIGHT.

CONTINUES TO EXISTING DISTRIBUTION PANEL. PENETRATION SHALL BE GROUTED

PROPOSED STORMSWITCH. SECURE

TO BUILDING USING SS UNISTRUT AND MOUNTING HARDWARE.

ELECTRICAL NOTES

EXISTING CURRENT

TRANSFORMER

1. SEE DWG NO. E06 FOR CONDUIT AND CONDUCTOR SCHEDULE.

2. SEE DWG NO. E06 FOR ELECTRICAL EQUIPMENT SCHEDULE.



ONE

P STATION DIAGRAM KLIN

- ENTRANCE STORMSWITCH

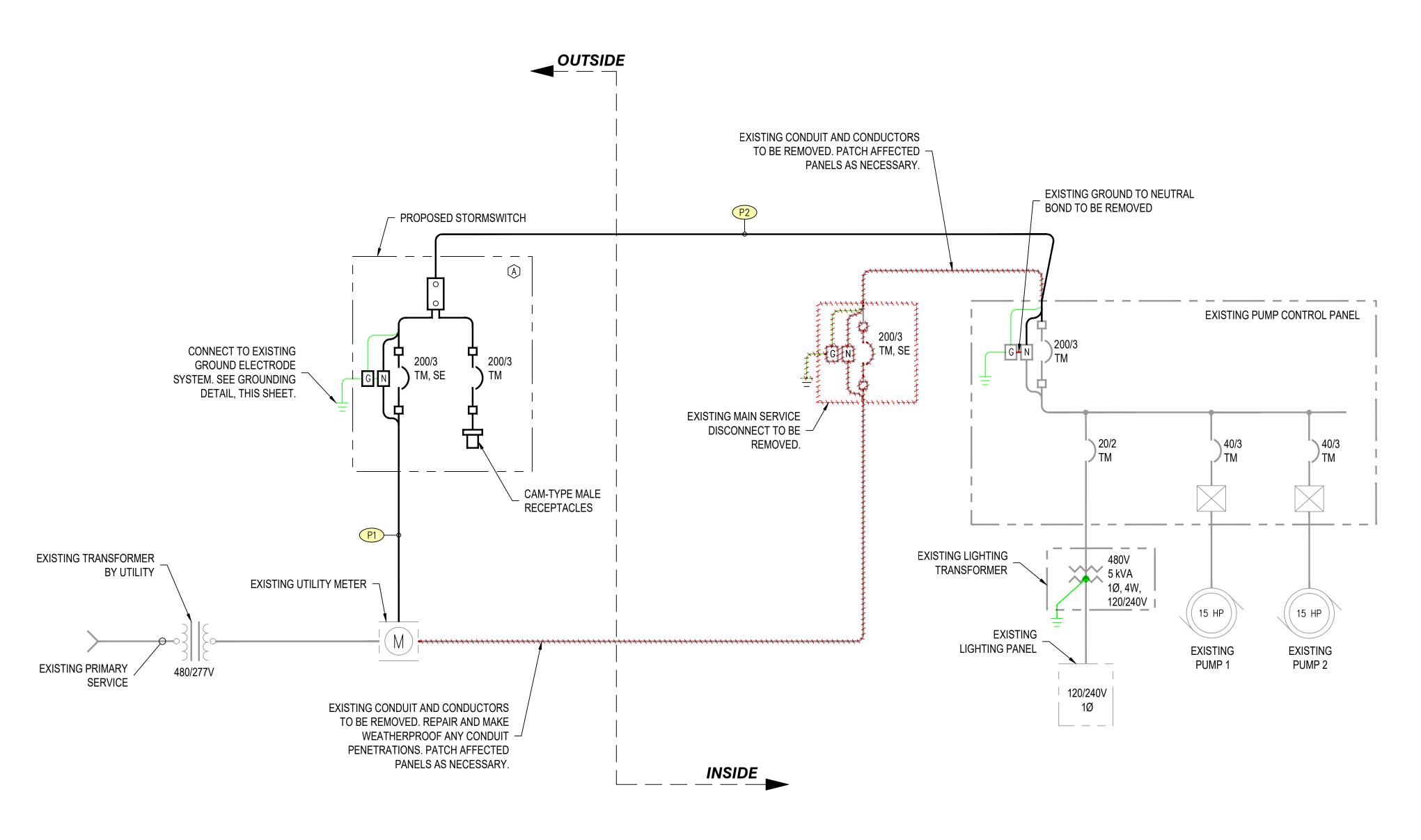
GND BUS

GROUNDING

/ #4 MIN.

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



KLINE PUMP STATION - ONE-LINE DIAGRAM

ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE						
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.			
(A)	STORMSWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS			

	POWER CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES			
P1	EXISTING UTILITY METER	PROPOSED STORMSWITCH	2"	(3) - #3/0, (1) - #3/0 N				
P2	PROPOSED STORMSWITCH	EXISTING PUMP CONTROL PANEL	2"	(3) - #3/0, (1) - #3/0 N, (1) - #6 GRD				





TRIC TATION

> **Q** KLINE

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

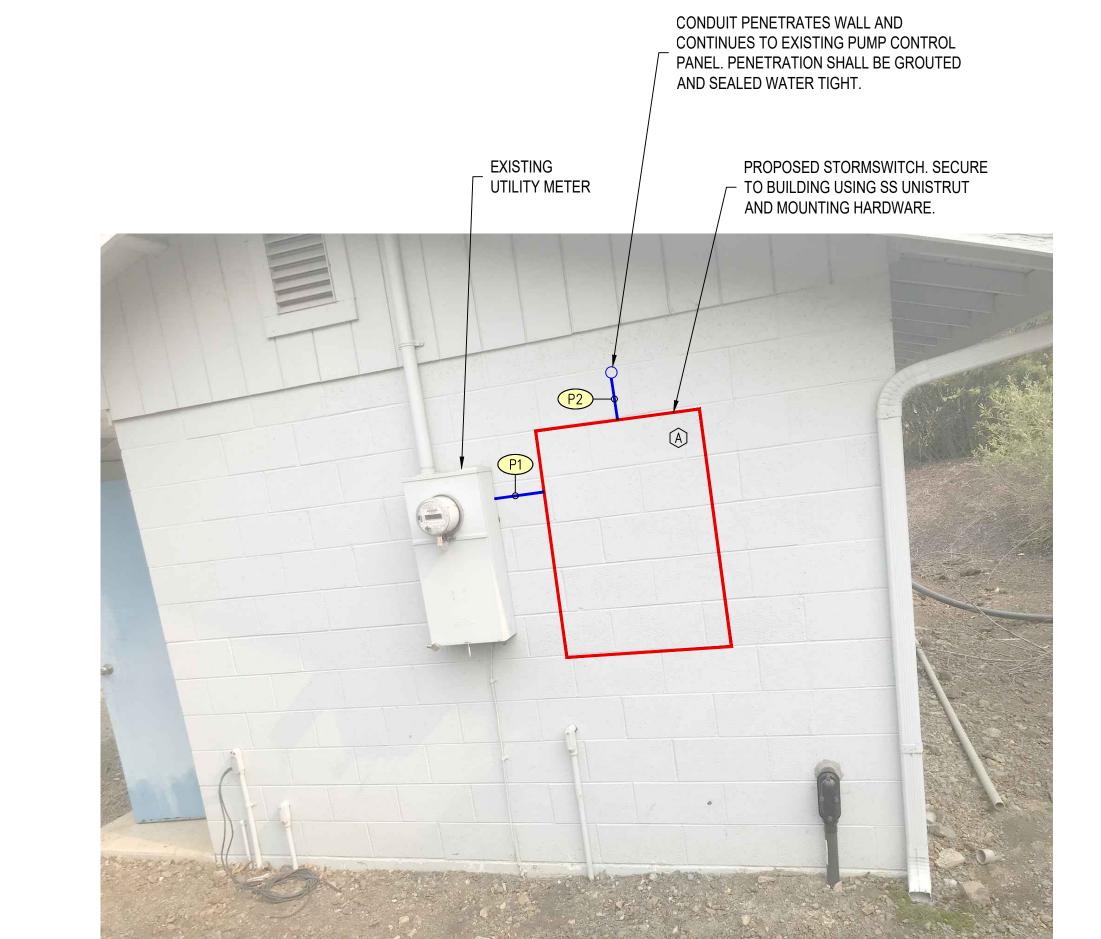
ELECTRICAL NOTES

EXISTING MAIN SERVICE CONDUIT PENETRATES WALL AND DISCONNECT TO BE REMOVED. CAP -CONTINUES TO PROPOSED STORMSWITCH. HOLE TO EXISTING UTILITY METER. 00 REMOVE EXISTING CONDUIT AND CONDUCTORS

EXISTING PUMP CONTROL

PANEL

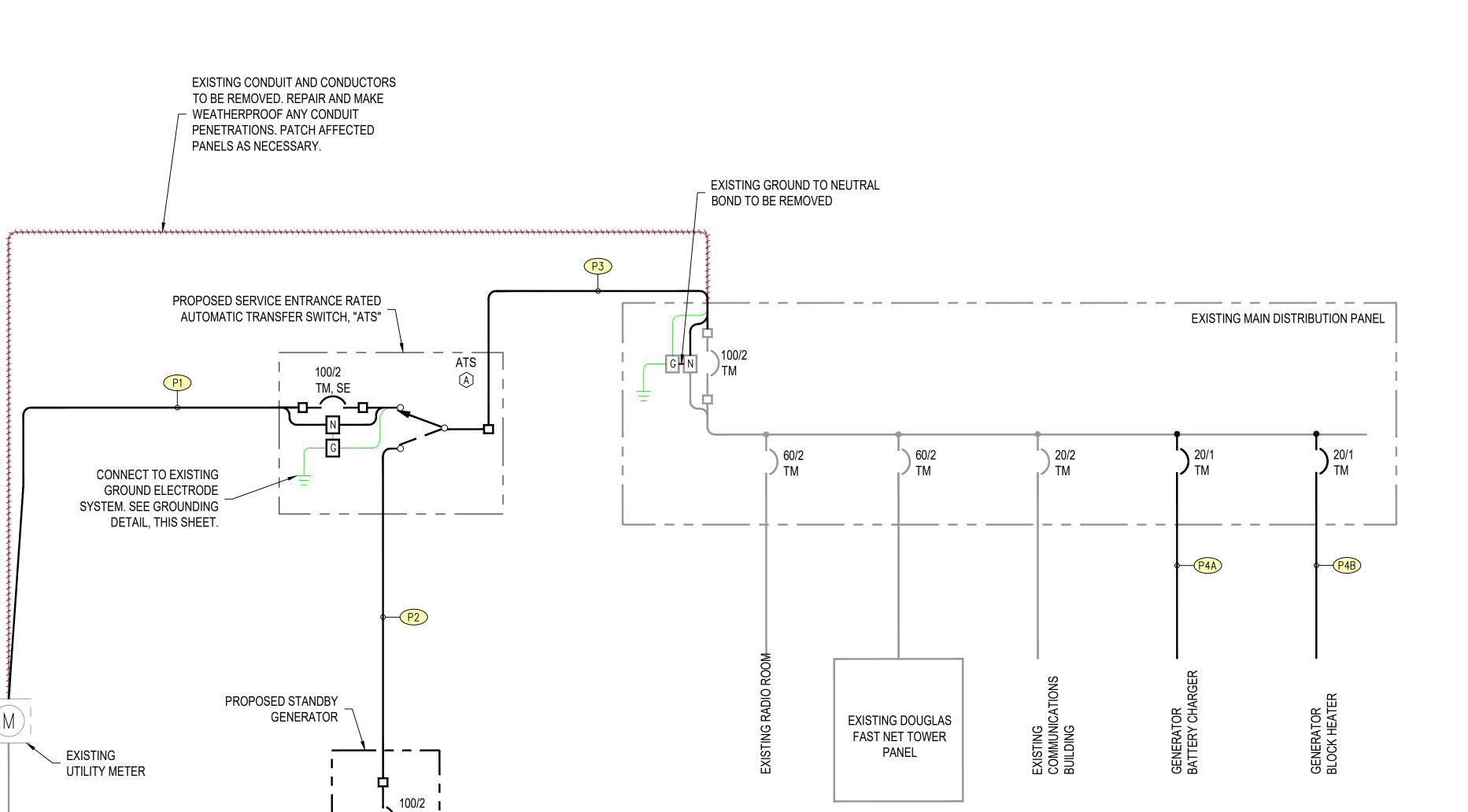




EXISTING UTILITY METER NO SCALE

1. SEE DWG NO. E08 FOR CONDUIT AND CONDUCTOR SCHEDULE.

2. SEE DWG NO. E08 FOR ELECTRICAL EQUIPMENT SCHEDULE.



ITEM DESCRIPTION MANUFACTURER MODEL NO. AUTOMATIC TRANSFER SWITCH - SERVICE ENTRANCE RATED, NEMA 4X SS ENCLOSURE, 100 AMP, 480 VOLT, 1 PHASE, 3 POLE, 42 KAIC WITHSTAND. ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE MANUFACTURER MODEL NO. SEE SPECIFICATIONS SEE SPECIFICATIONS

EXISTING TRANSFORMER

EXISTING PRIMARY

SERVICE

BY UTILITY

120/240V

RESERVOIR HILL - ONE-LINE DIAGRAM

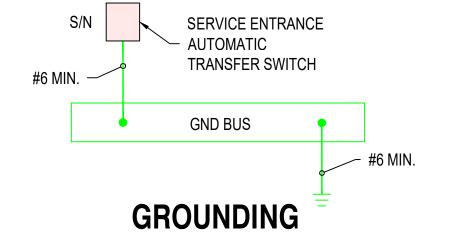
PROPOSED

— GROUND PER

N.E.C.

	POWER CONDUIT AND CONDUCTOR SCHEDULE						
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES		
P1	EXISTING UTILITY METER	PROPOSED AUTOMATIC TRANSFER SWITCH, "ATS"	1"	(2) - #3, (1) - #3 N			
P2	PROPOSED AUTOMATIC TRANSFER SWITCH, "ATS"	PROPOSED STANDBY GENERATOR	1"	(2) - #3, (1) - #3 N, (1) - #8 GRD			
P3	PROPOSED AUTOMATIC TRANSFER SWITCH, "ATS"	EXISTING MAIN DISTRIBUTION PANEL	1"	(2) - #3, (1) - #3 N, (1) - #8 GRD			
P4A	EXISTING MAIN DISTRIBUTION PANEL	PROPOSED STANDBY GENERATOR	1"	(2) - #12, (1) - #12 GRD	CIRCUITS "P4A" AND P4B" SHARE CONDUIT P4		
P4B	EXISTING MAIN DISTRIBUTION PANEL	PROPOSED STANDBY GENERATOR	1"	(2) - #12, (1) - #12 GRD	CIRCUITS "P4A" AND P4B" SHARE CONDUIT P4		

	INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE						
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES		
C1	PROPOSED AUTOMATIC TRANSFER SWITCH, "ATS"	PROPOSED STANDBY GENERATOR	1"	(6) - #14, (1) - #14 GRD			
C2	PROPOSED STANDBY GENERATOR	PROPOSED HANDHOLE	1"	(10) - #14, (1) - #14 GRD			
<u>C3</u>	PROPOSED AUTOMATIC TRANSFER SWITCH, "ATS"	PROPOSED HANDHOLE	1"	(4) - #14, (1) - #14 GRD			
C4	EXISTING RESERVOIR 5, 6, 7 RADIO PANEL	PROPOSED HANDHOLE	1"	(14) - #14, (1) - #14 GRD			





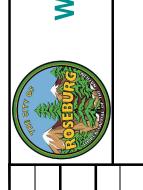


DIAGRAM

CITY OF ROSEBURG
WATER TREATMENT PLANT STANDBY
GENERATOR

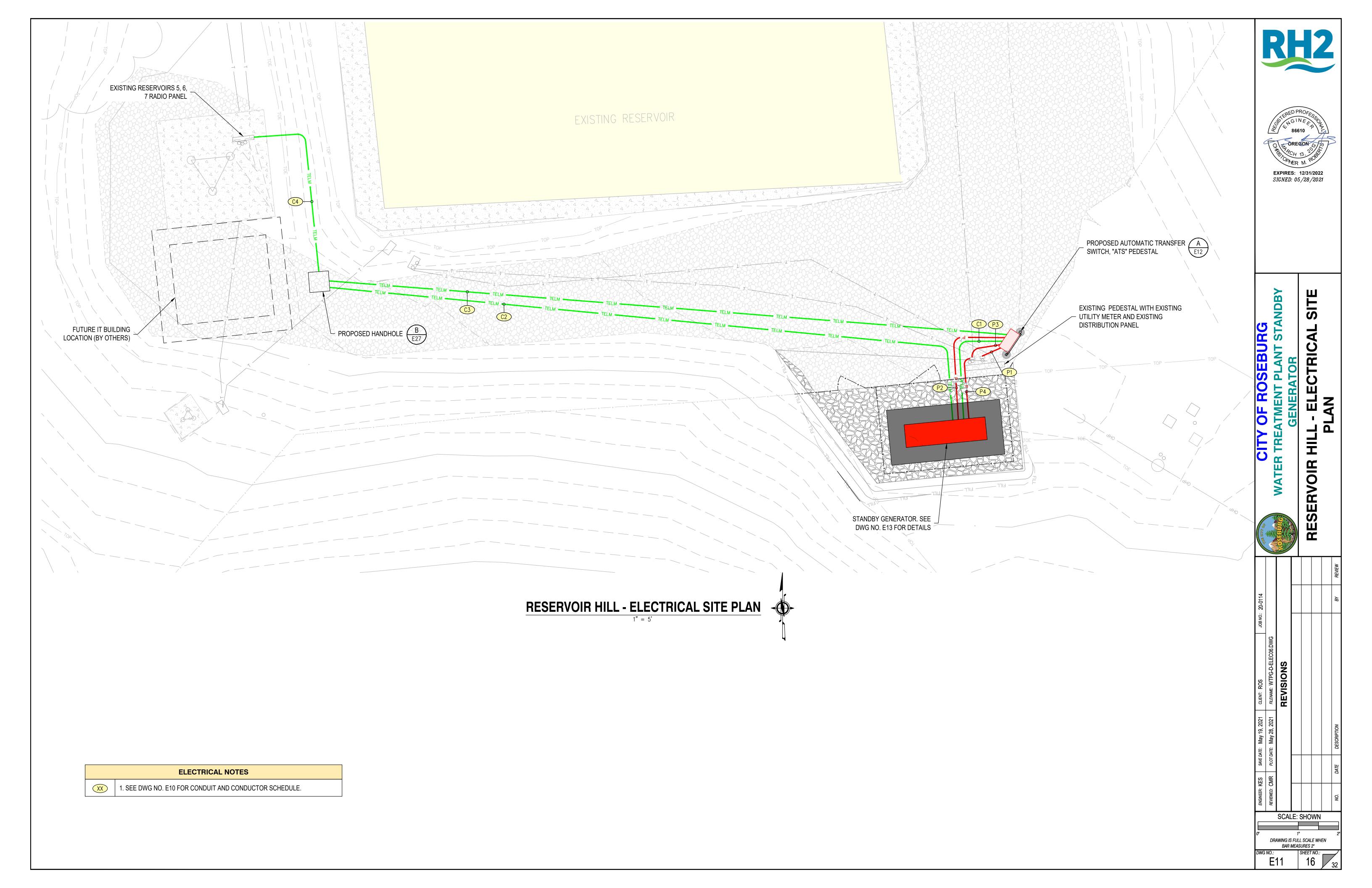
ONE-LINE

NOIR



		64					
							REVIEW
JOB NO.: 20-0114							BY
JOB NO.							
CLIENT: ROS	FILENAME: WTPG-D-ELEC06.DWG	REVISIONS					
SAVE DATE: May 19, 2021	PLOT DATE: May 28, 2021						DESCRIPTION
							DATE
ENGINEER: KES	REVIEWED: CME						NO.
		SCAL	E: \$	SHO	WN		
<u> </u>			1"				
ľ	DRA	AWING IS	FULL	. SCAL		EN	2"

BAR MEASURES 2"



INSTALL PROPOSED

BATTERY CHARGER

20AMP CIRCUIT BREAKER
FOR POWERING

PROPOSED GENERATOR

EXISTING RESERVOIRS 5, 6, 7 RADIO PANEL EXTERIOR CONNECT PROPOSED ACROMAG I/O MODULE TO EXISTING 24VDC CIRCUIT BREAKER (CB9) CONNECT PROPOSED TO SELECT THE SERVICE THE ACROMAG I/O MODULE TO EXISTING ETHERNET SWITCH WITH CAT 5E ETHERNET CABLE. INSTALL TERMINAL BLOCKS

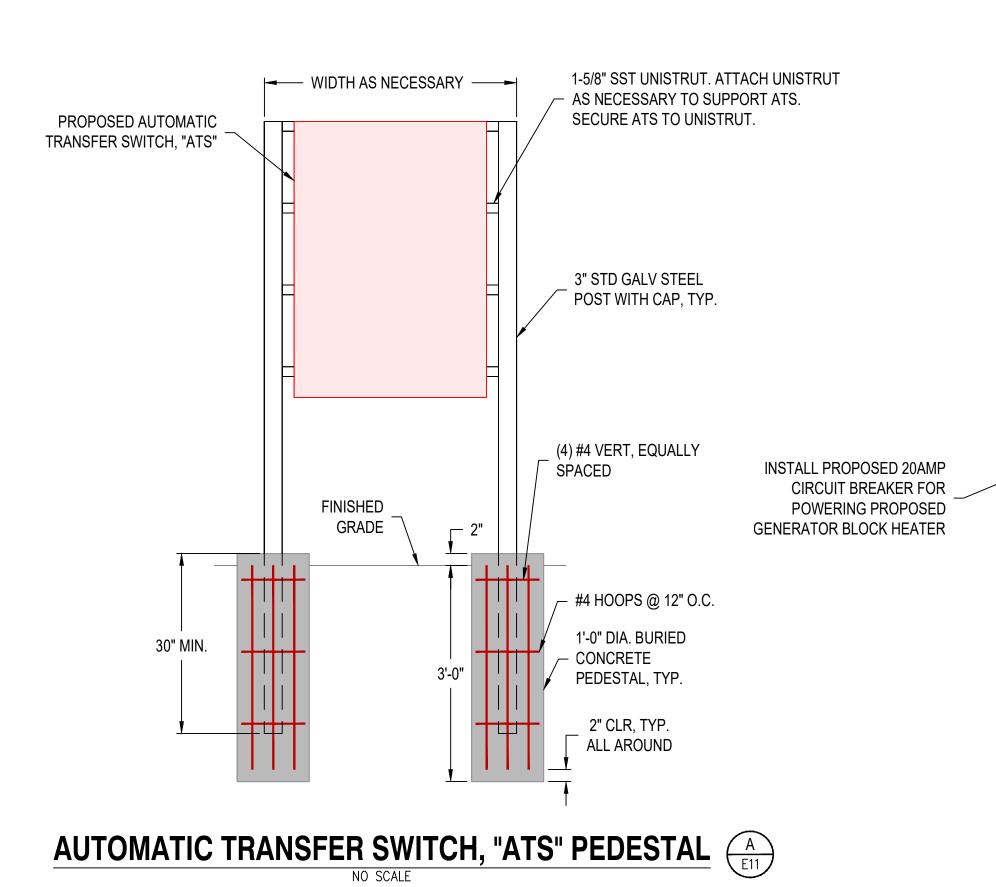
EXISTING RESERVOIRS 5, 6, 7

RADIO PANEL

FOR PROPOSED DIGITAL INSTALL PROPOSED ACROMAG I/O MODULE

EXISTING PEDESTAL NO SCALE

ELECTRICAL NOTES 1. SEE RESERVOIR HILL - ELECTRICAL SITE PLAN ON DWG NO. E11 FOR CONTINUATION. 2. SEE DWG NO. E10 FOR CONDUIT AND CONDUCTOR SCHEDULE. 3. SEE DWG NO. E10 FOR ELECTRICAL EQUIPMENT SCHEDULE.



EXISTING DISTRIBUTION PANEL NO SCALE

EXISTING RESERVOIRS 5, 6, 7 RADIO PANEL INTERIOR
NO SCALE



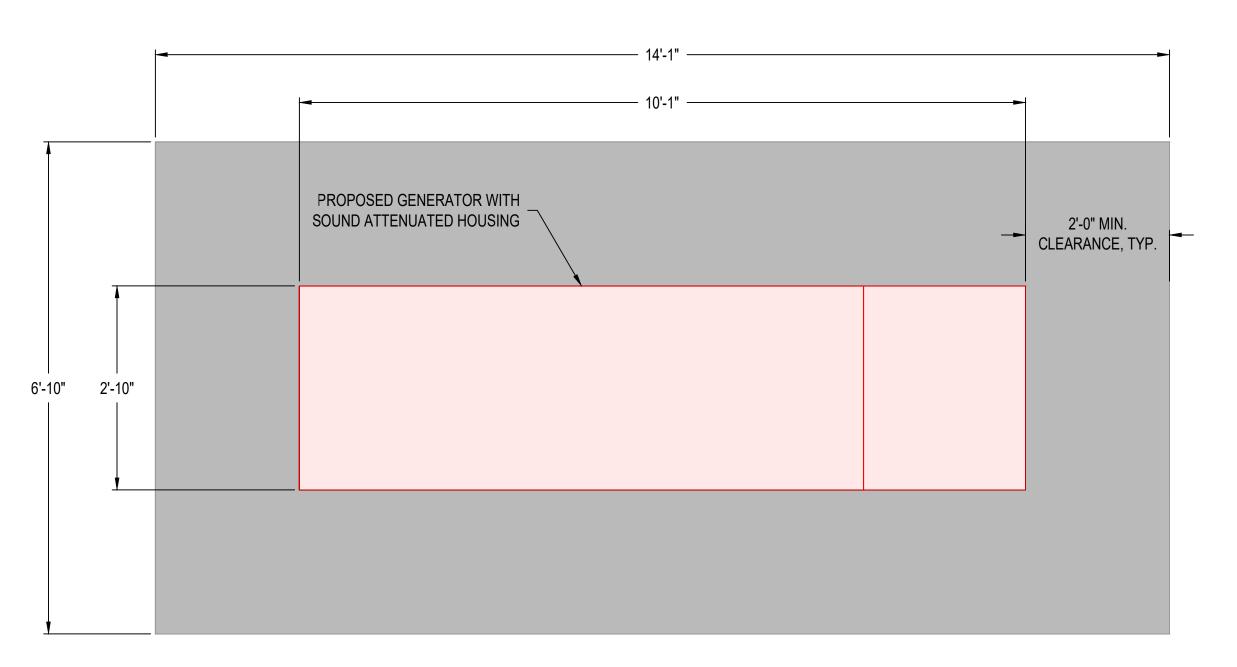


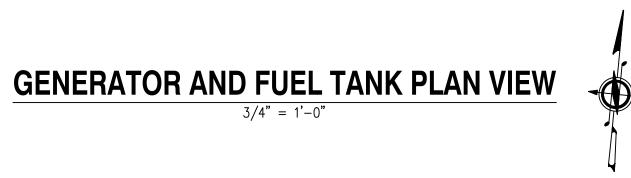
ELECTRICAL

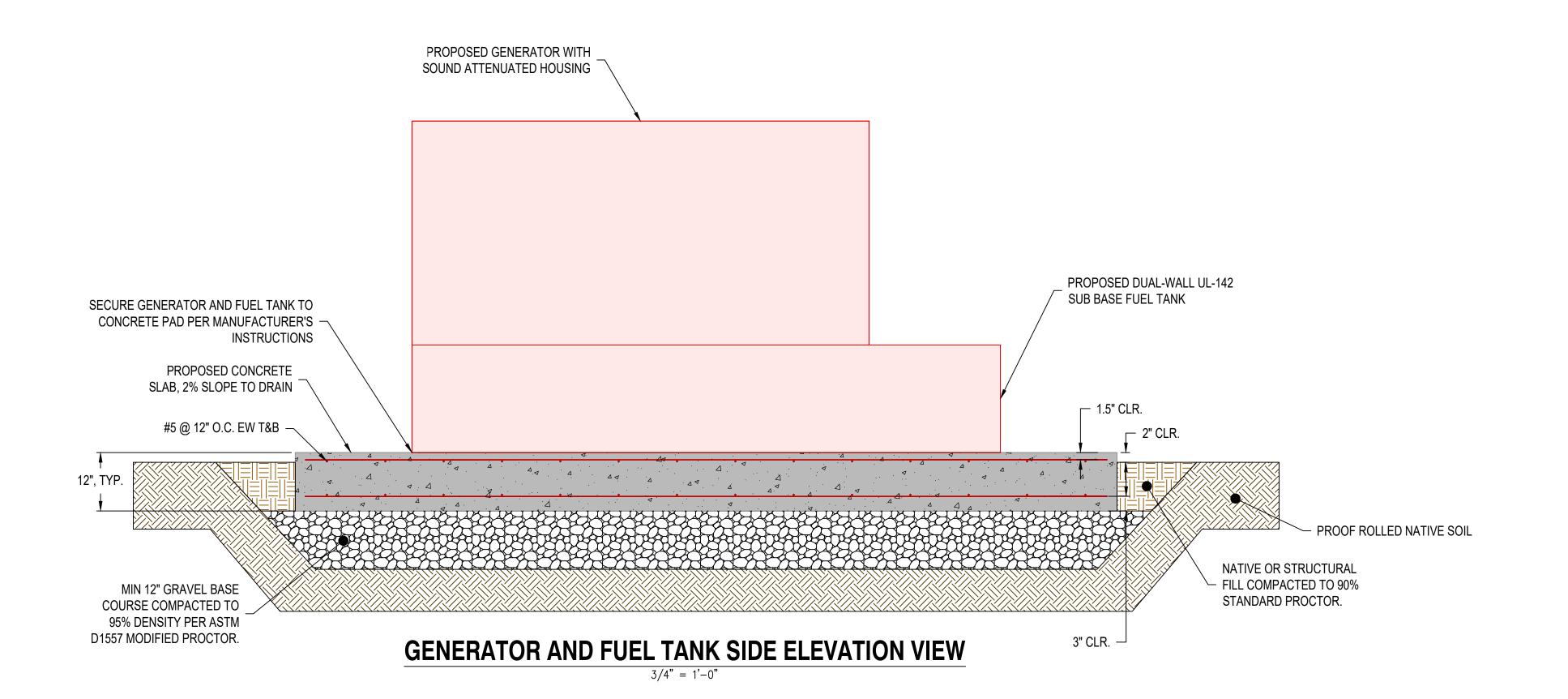
Η

RVOIR RESE

SCALE: SHOWN











GENERATOR

GENERATOR

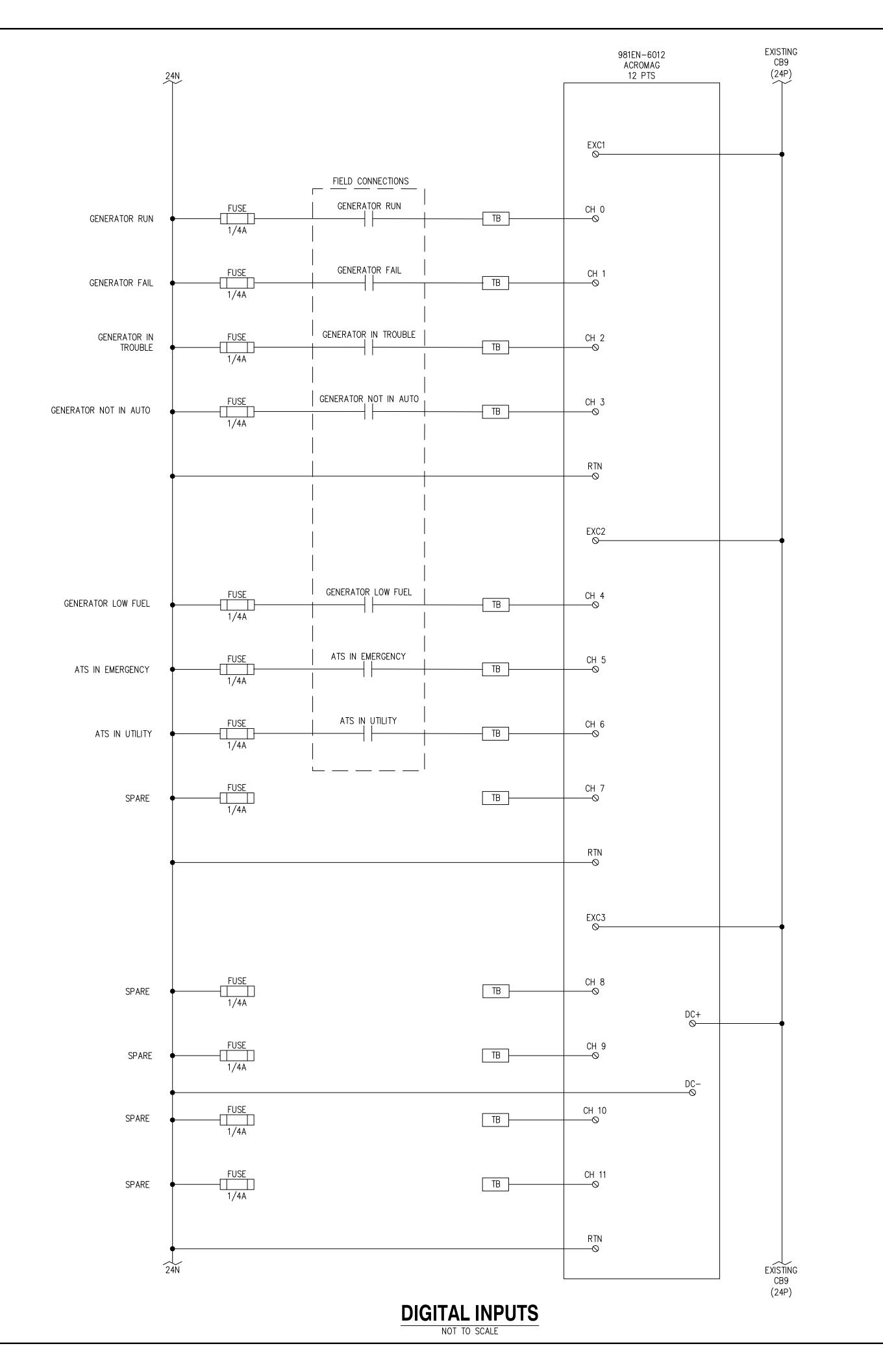
GENERATOR

GENERATOR DETAILS

WAT

븦

						REVIEW
JOB NO.: 20-0114						BY
CLIENT: RUS	FILENAME: WTPG-D-ELEC06.DWG	REVISIONS				
SAVE DATE: May 19, 2021 CLIENT: RUS	REVIEWED: CMR PLOT DATE: May 28, 2021					DESCRIPTION
ິ ຜູ	MR F					DATE
ENGINEEH: KES	REVIEWED: C					NO.
		SCAL	E: \$	SHO	WN	







ROSEBURG

TENT PLANT STANDBY

RESERVOIR HILL - RESERVOIRS 5, RADIO PANEL INPUT WIRING

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

SCALE: SHOWN

VENTURA PUMP STATION - ONE-LINE DIAGRAM

	ELECTRICAL EQUIPMENT AND INSTRUME	NTATION SCHED	ULE
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
A	STORMSWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS

	POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES	
P1	EXISTING UTILITY METER	PROPOSED STORMSWITCH	1 1/4"	(3) - #3, (1) - #3 N		
P2	PROPOSED STORMSWITCH	EXISTING WIREWAY	1 1/4"	(3) - #3, (1) - #3 N, (1) - #8 GRD		

PENETRATIONS. PATCH AFFECTED

PANELS AS NECESSARY.





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EXPIRES: 12/31/2022 SIGNED: 05/28/2021

JMP STATION DIAGRAM Ω.

J.

JOB NO.: 20-0114						BY REVIEW
CLIENT: ROS	FILENAME: WTPG-D-ELEC07.DWG	REVISIONS				
SAVE DATE: May 19, 2021	<i>PLOT DATE</i> : Мау 28, 2021					DESCRIPTION
	MR F					DATE
ENGINEER: KES	REVIEWED: CMR					NO.
		SCAL	E: 8	SHO	WN	
						2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

- ENTRANCE STORMSWITCH

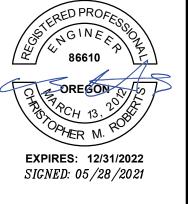
GND BUS

GROUNDING

____ #6 MIN.

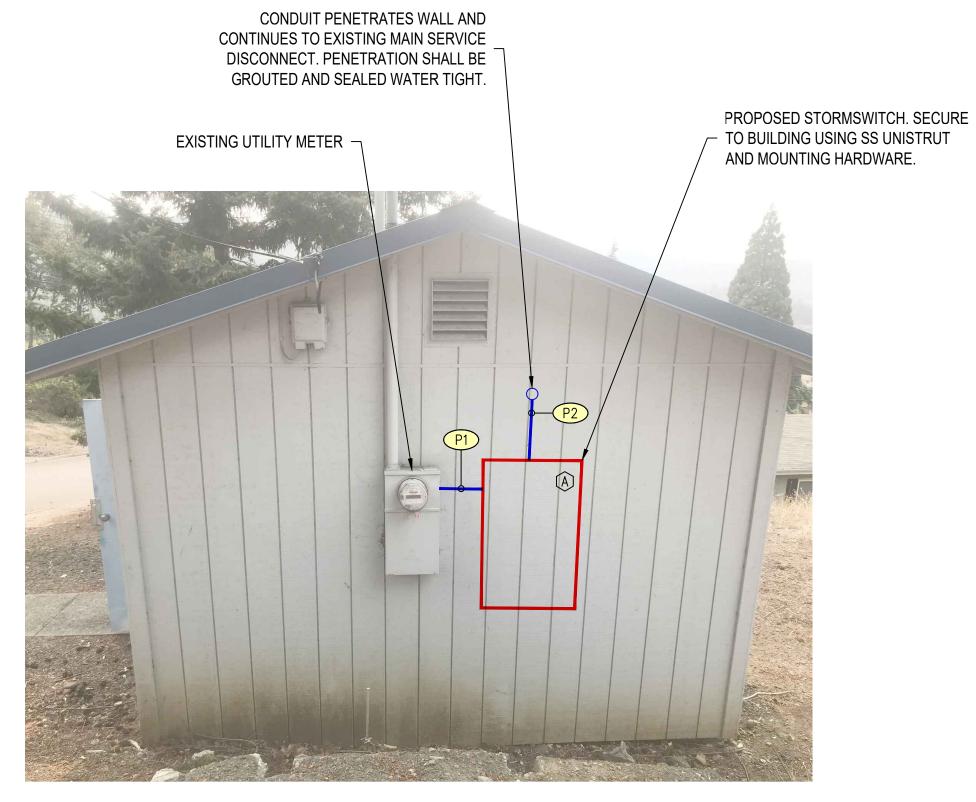
#6 MIN.



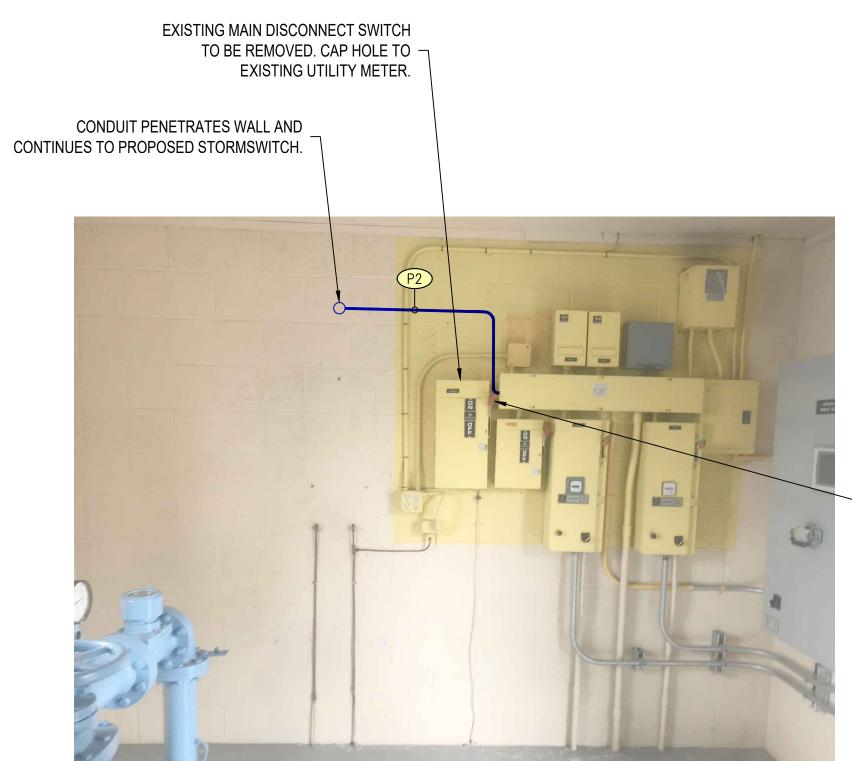


STATION PLAN





EXISTING UTILITY METER
NO SCALE



DISCONNECT AND REMOVE EXISTING CONDUIT AND CONDUCTORS BETWEEN EXISTING MAIN DISCONNECT SWITCH AND EXISTING WIREWAY.

EXISTING PANELS
NO SCALE

					REVIEW	
JOB NO.: 20-0114					BY	
JOB NC						
CLIENT: ROS	FILENAME: WTPG-D-ELEC07.DWG	REVISIONS				
SAVE DATE: May 19, 2021	<i>PLOT DATE:</i> Мау 28, 2021				DESCRIPTION	
					DATE	
ENGINEER: KES	REVIEWED: CMR				NO.	

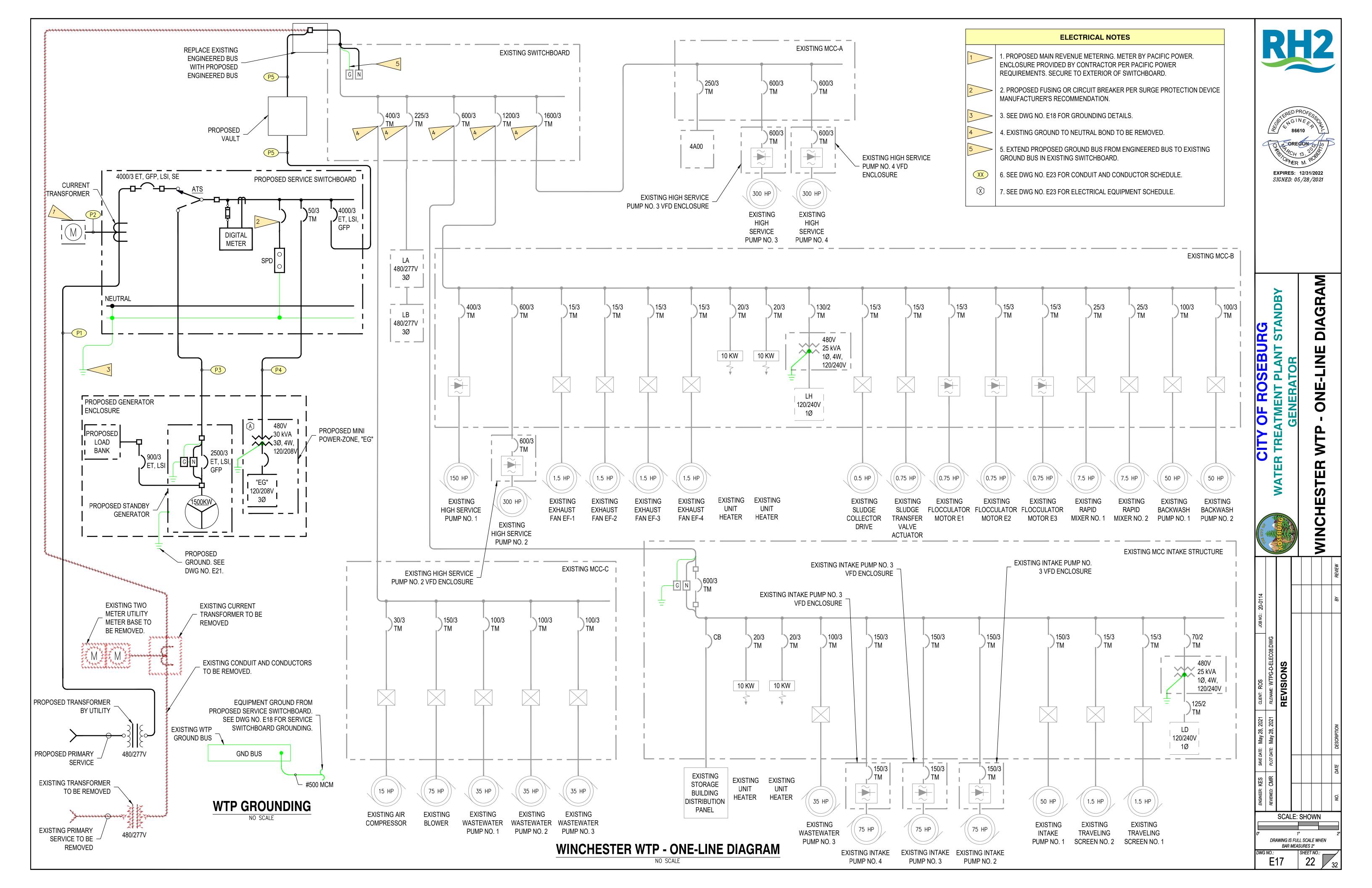
ELECTRICAL NOTES

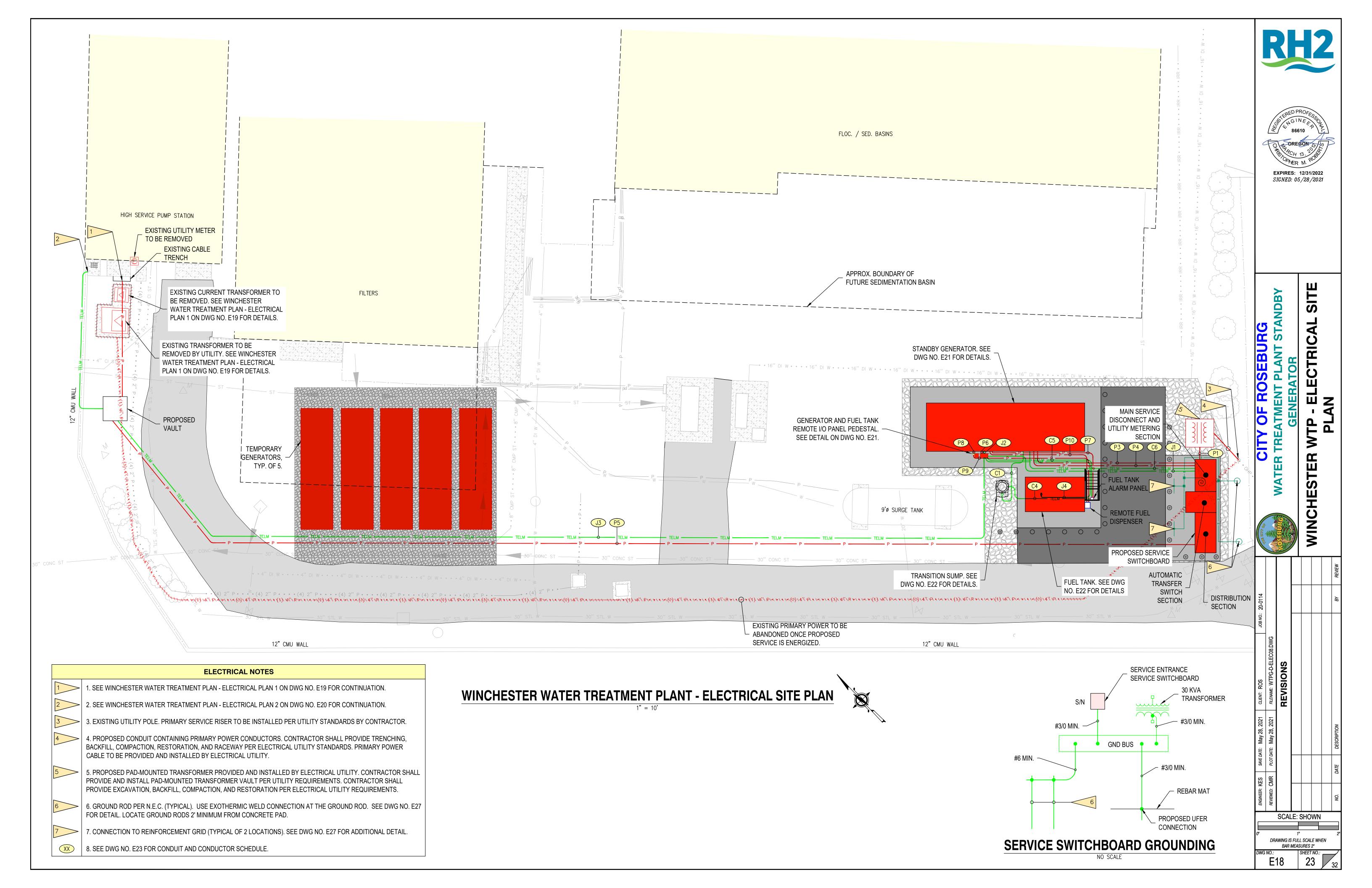
1. SEE DWG NO. E15 FOR CONDUIT AND CONDUCTOR SCHEDULE.

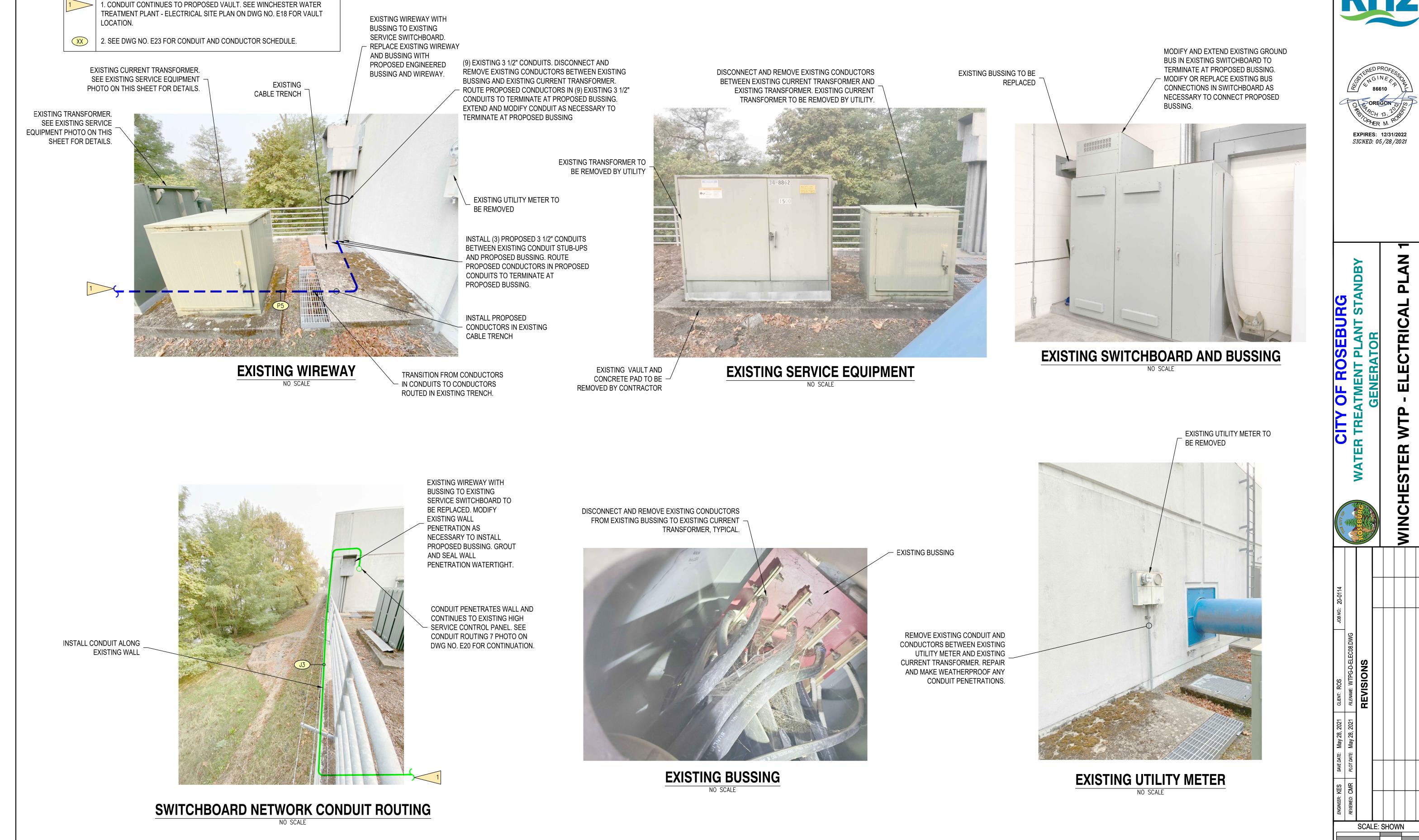
2. SEE DWG NO. E15 FOR ELECTRICAL EQUIPMENT SCHEDULE.

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

SCALE: SHOWN







ELECTRICAL NOTES





SEE NETWORK CONDUIT

- ROUTING 4 PHOTO, THIS

SHEET, FOR CONTINUATION.

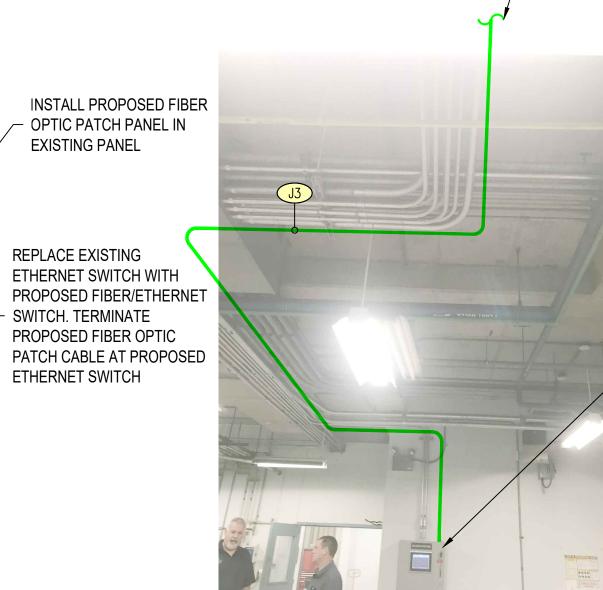
PLAN

WINCHE

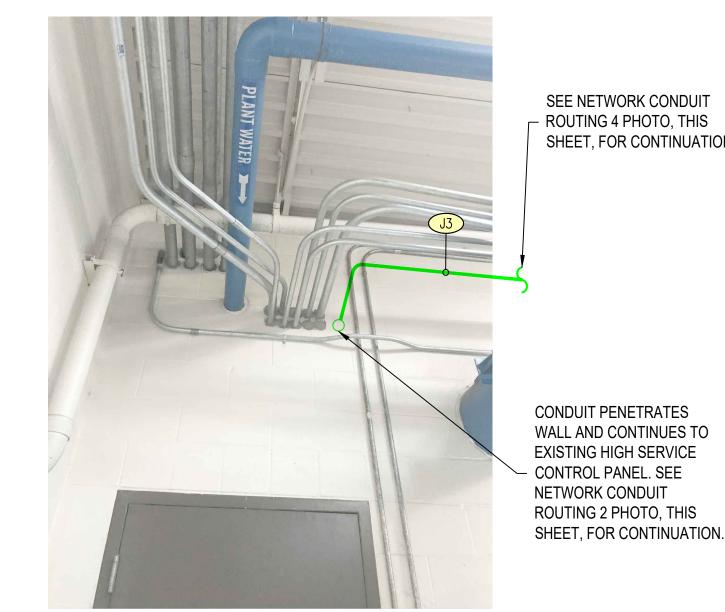
SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2" SHEET NO.: 32

SEE NETWORK CONDUIT - ROUTING 2 PHOTO, THIS SEE NETWORK CONDUIT SHEET, FOR CONTINUATION. - ROUTING 3 PHOTO, THIS SHEET, FOR CONTINUATION.



_ EXISTING HIGH SERVICE CONTROL PANEL



SEE NETWORK CONDUIT

- ROUTING 1 PHOTO, THIS

SHEET, FOR CONTINUATION.

NETWORK CONDUIT ROUTING 1

NO SCALE

NETWORK CONDUIT ROUTING 2

NETWORK CONDUIT ROUTING 3 NO SCALE

SEE NETWORK CONDUIT

SHEET, FOR CONTINUATION.

- ROUTING 6 PHOTO, THIS

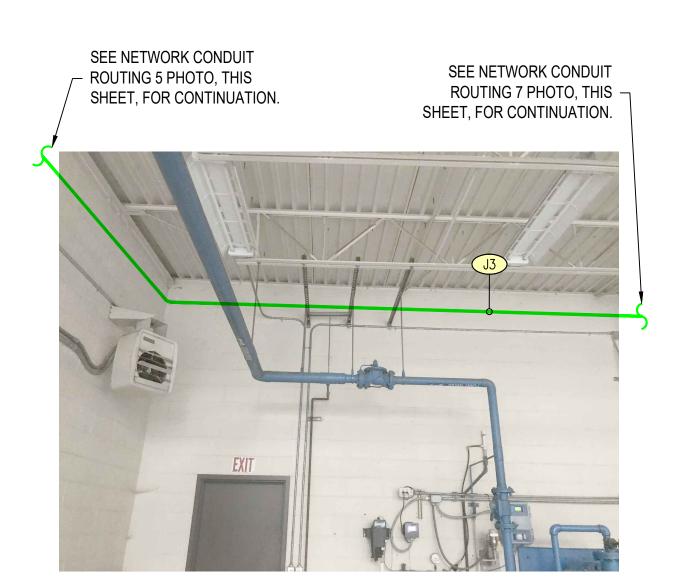
SEE NETWORK CONDUIT SEE NETWORK CONDUIT - ROUTING 3 PHOTO, THIS ROUTING 5 PHOTO, THIS -SHEET, FOR CONTINUATION. SHEET, FOR CONTINUATION.

EXISTING HIGH SERVICE CONTROL PANEL INTERIOR

NETWORK CONDUIT ROUTING 4 NO SCALE

SEE NETWORK CONDUIT SEE NETWORK CONDUIT - ROUTING 4 PHOTO, THIS ROUTING 6 PHOTO, THIS -SHEET, FOR CONTINUATION. SHEET, FOR CONTINUATION.

NETWORK CONDUIT ROUTING 5



NETWORK CONDUIT ROUTING 6

NETWORK CONDUIT ROUTING 7 NO SCALE

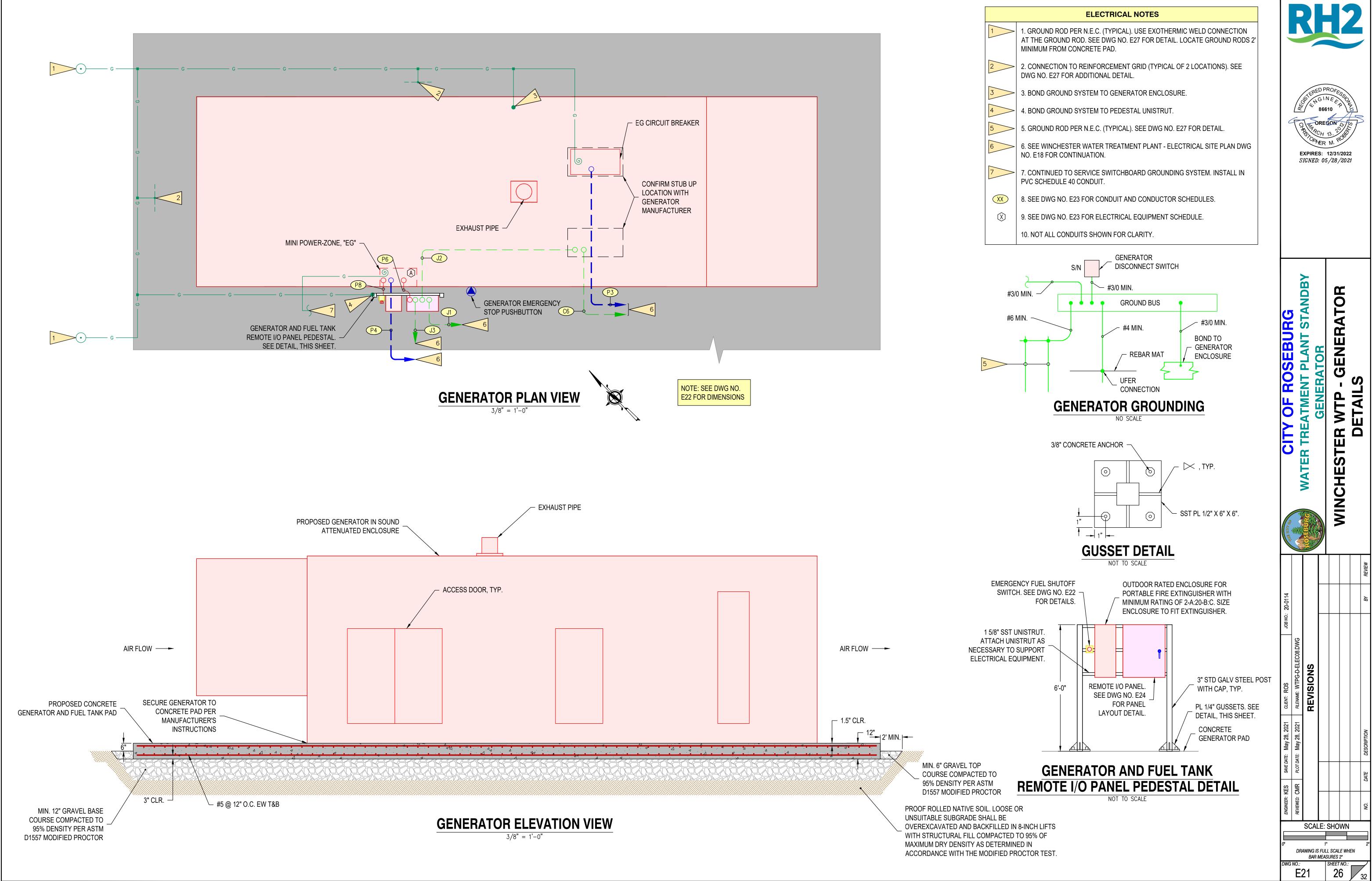
ELECTRICAL NOTES

1. CONDUIT PENETRATES WALL AND CONTINUES TO PROPOSED REMOTE I/O PANEL. PENETRATION SHALL BE GROUTED AND SEALED WATER TIGHT. SEE NETWORK CONDUIT ROUTING PHOTO ON DWG NO. E19 FOR CONTINUATION.

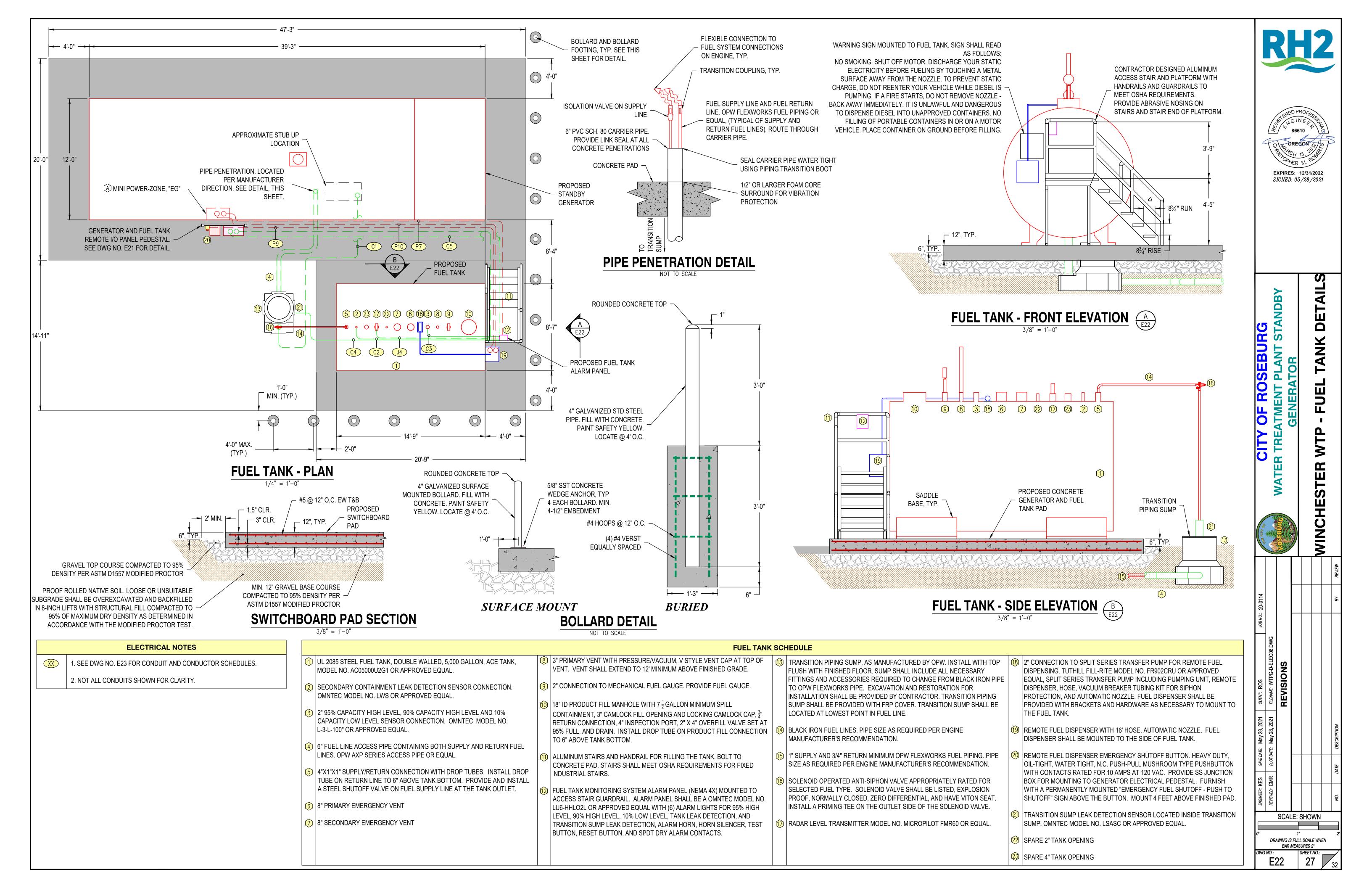
2. SEE DWG NO. E23 FOR CONDUIT AND CONDUCTOR SCHEDULE.

ELECTRICAL **EXISTING WIREWAY**

REPLACED











STERED HOLESON
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EXPIRES: 12/31/2022 SIGNED: 05/28/2021

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OREGON NO OF THE PROPERTY OF T
EXPIRES: 12/31/2022 SIGNED: 05/28/2021

DBY	
N	

MODEL NO.

MPZ30T2F25K OR EQUAL

MANUFACTURER

JOB NO.				
CLIENT: ROS	FILENAME: WTPG-D-ELEC08.DWG	REVISIONS		
SAVE DATE: May 28, 2021	РLOT DATE: Мау 28, 2021			
SAVE DA	PLOT DA			
KES	CMR			

SCALE: SHOWN

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D PROFESSON	
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REGON W/S	
CH 13 2/8/	l

POWER CONDUIT AND CONDUCTOR SCHEDULE						
CIRCUIT SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES		
P1 PROPOSED UTILITY TRANSFORMER	PROPOSED SERVICE SWITCHBOARD	(12) - 3 1/2"	(3) - #400 MCM, (1) - #400 MCM N	PARALLEL CONDUCTORS		
P2 PROPOSED CURRENT TRANSFORMER	PROPOSED UTILITY METER	1 1/4"	(13) - #14			
P3 PROPOSED SERVICE SWITCHBOARD	PROPOSED STANDBY GENERATOR	(7) - 3 1/2"	(3) - #500 MCM, (1) - #500 MCM N, (1) - #350 MCM GRD	PARALLEL CONDUCTORS		
P4 PROPOSED SERVICE SWITCHBOARD	PROPOSED MINI POWER-ZONE, "EG"	1"	(3) - #8, (1) - #8 N, (1) - #10 GRD CONDUCTOR			
P5 PROPOSED SERVICE SWITCHBOARD	EXISTING SWITCHBOARD BUSSING	(12) - 3 1/2"	(3) - #400 MCM, (1) - #400 MCM N, (1) - #500 MCM GRD	PARALLEL CONDUCTORS		
PROPOSED MINI POWER-ZONE, "EG"	PROPOSED GENERATOR AND FUEL TANK REMOTE I/O PANEL	3/4"	(2) - #12, (1) - #12 GRD			
P7 PROPOSED MINI POWER-ZONE, "EG"	PROPOSED FUEL TANK ALARM PANEL	1"	(2) - #12, (1) - #12 GRD			
P8 PROPOSED MINI POWER-ZONE, "EG"	PROPOSED EMERGENCY FUEL SHUTOFF PUSHBUTTON	3/4"	(2) - #12, (1) - #12 GRD	INSTALL CIRCUIT IN THREADED RIGID METAL CONDUIT		
P9 PROPOSED EMERGENCY FUEL SHUTOFF PUSHBUTTON	PROPOSED FUEL DISPENSER TRANSFER PUMP	3/4"	(2) - #12, (1) - #12 GRD	INSTALL CIRCUIT IN THREADED RIGID METAL CONDUIT		
P10 PROPOSED MINI POWER-ZONE, "EG"	PROPOSED FUEL DISPENSER TRANSFER PUMP	3/4"	(2) - #12, (1) - #12 GRD			

	CONTROL CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES			
C1	PROPOSED FUEL TANK ANTI-SIPHON VALVE	PROPOSED STANDBY GENERATOR	3/4"	(2) - #12, (1) - #12 GRD				
C2	PROPOSED FUEL TANK LEAK DETECTION SENSOR	PROPOSED FUEL TANK ALARM PANEL	3/4"	(2) - #14, (1) - #14 GRD				
<u>C3</u>	PROPOSED FUEL TANK LEVEL SENSOR	PROPOSED FUEL TANK ALARM PANEL	3/4"	(6) - #14, (1) - #14 GRD				
C4	PROPOSED TRANSITION SUMP LEAK DETECTION SENSOR	PROPOSED FUEL TANK ALARM PANEL	3/4"	(2) - #14, (1) - #14 GRD				
<u>C5</u>	PROPOSED GENERATOR AND FUEL TANK REMOTE I/O PANEL	PROPOSED FUEL TANK ALARM PANEL	3/4"	(6) - #14, (1) - #14 GRD				
<u>C6</u>	PROPOSED SERVICE SWITCHBOARD	PROPOSED STANDBY GENERATOR	1"	(6) - #14, (1) - #14 GRD	GENERATOR CALL FROM ATS			

INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS NOTES				
J1 PROPOSED SERVICE SWITCHBOARD	PROPOSED GENERATOR AND FUEL TANK REMOTE I/O PANEL	1"	(2) CAT 5E ETHERNET CABLES				
J2 PROPOSED GENERATOR AND FUEL TANK REMOTE I/O PANEL	PROPOSED STANDBY GENERATOR	1"	(1) CAT 5E ETHERNET CABLE				
J3 PROPOSED GENERATOR AND FUEL TANK REMOTE I/O PANEL	EXISTING HIGH SERVICE CONTROL PANEL INTERIOR	1 1/2"	(1) FIBER OPTIC CABLE				
J4 PROPOSED GENERATOR AND FUEL TANK REMOTE I/O PANEL	PROPOSED FUEL TANK LEVEL TRANSMITTER	1"	(1) 2-CONDUCTOR SHIELDED CABLE				

PANEL SCHEDULE EG							
NO. LOCATION: GENERATOR ENCLOSURE MINI EG SERVING: GENERATOR AND FUEL TANK		ZONE			208 100	3/120) AM	
CIRCUIT DESCRIPTION	KVA	AMP	1 ,,	1	AMP	KVA	CIRCUIT DESCRIPTION
GENERATOR BLOCK HEATER	5.00	40] 1 <i>-</i> ┬┿┤	2	20	0.70	GENERATOR ENCLOSURE DAMPER MOTORS
	_	2P	3 -	4	20	0.30	ALT. STRIP HEATER
GENERATOR BATTERY CHARGER	0.80	20	5	6	20	0.20	GENERATOR ENCLOSURE EXTERIOR LIGHTS
GENERATOR ENCLOSURE RECEPTACLES	0.72	20	7	8	20	0.86	FUEL DISPENSER TRANSFER PUMP
GENERATOR ENCLOSURE INTERIOR LIGHTS	0.07	20	9 -	10	20	0.50	REMOTE I/O PANEL
FUEL TANK ALARM PANEL	0.10	20	11	12	20	0.72	EMERGENCY FUEL SHUTOFF PUSHBUTTON
SPARE	_	20	13 -	14	20	_	SPARE
SPARE	_	20	15 -	16	20	_	SPARE
SPARE	_	20	17 - ~	18	20	_	SPARE
SPACE	_	_	19 - 19	20	_	_	SPACE
SPACE	_	_	21 -	22	_	_	SPACE
SPACE	_	_	23-~-	24	_	_	SPACE
CONNECTION LOAD: 9.97 KVA 27.67 AMPS	DEMA	AND: L	IGHTING &	RECEPTA	CLE L	DAC	DEMAND LOAD: 9.97 KVA 27.67 AMPS

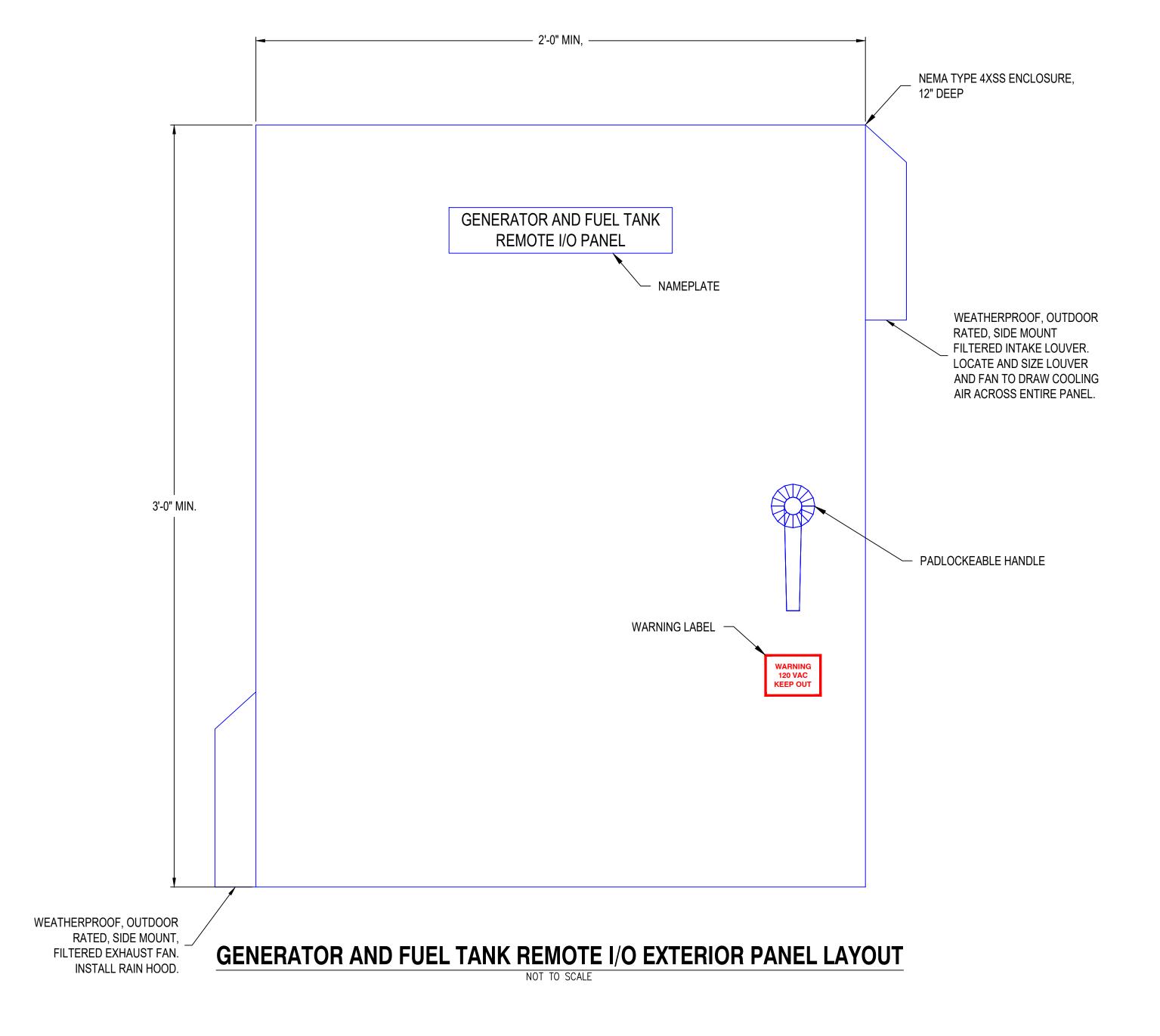
ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE

DESCRIPTION

MINI POWER-ZONE - 30KVA, 480-120/208 VAC, 3φ. 25 KAIC WITHSTAND, NEMA 3R ENCLOSURE.



EXPIRES: 12/31/2022 SIGNED: 05/28/2021

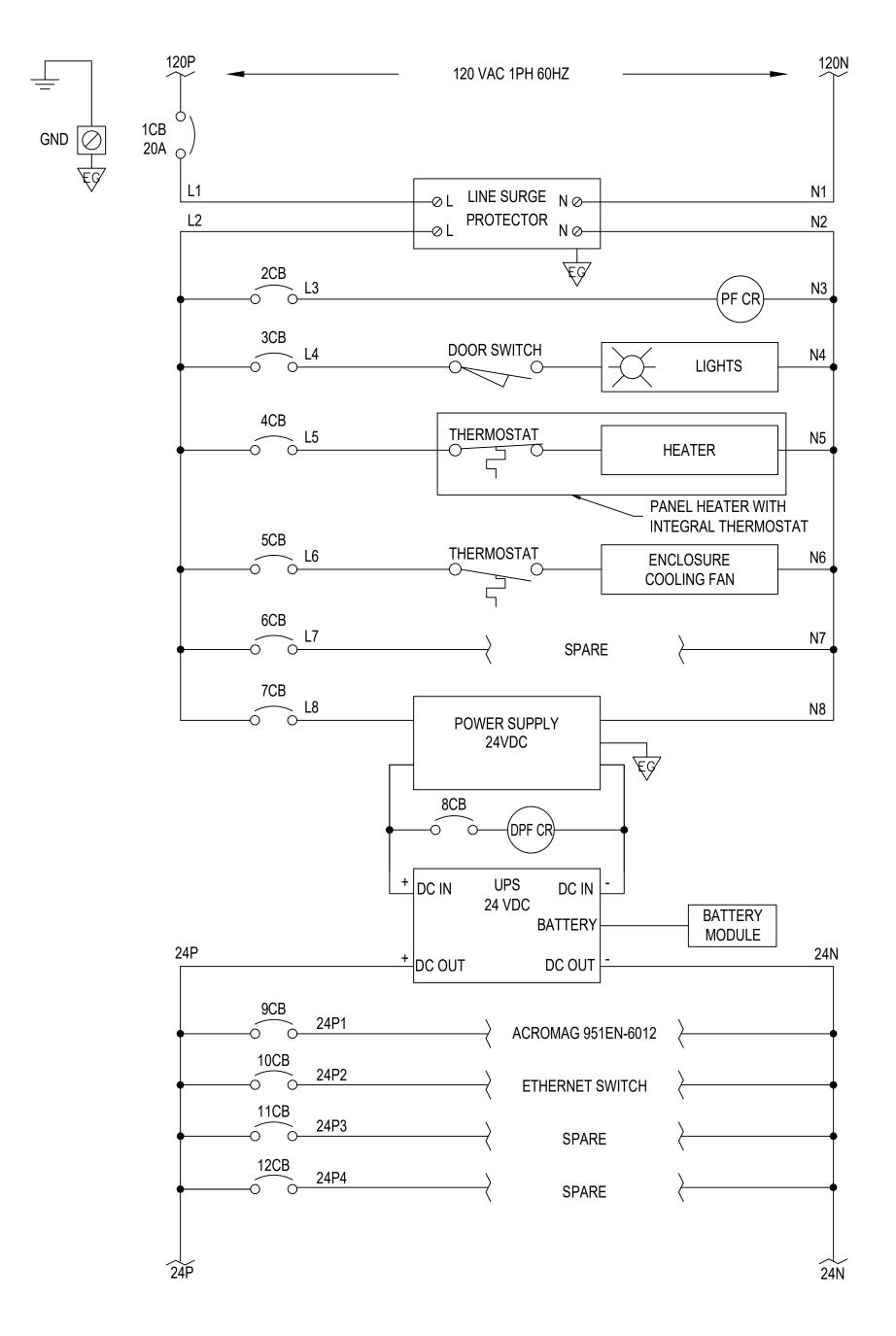


TP - REMOTE

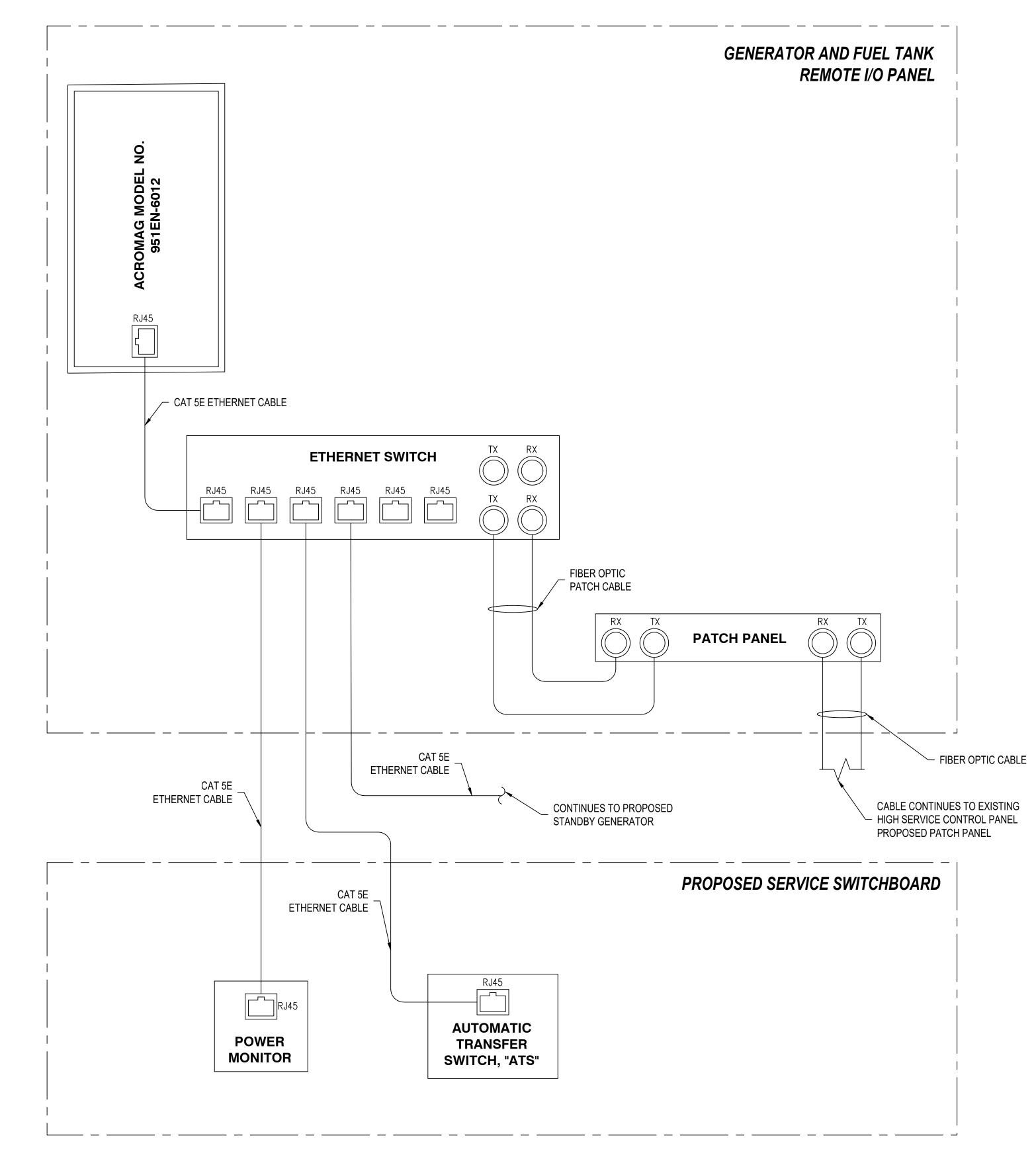
WINCH

SCALE: SHOWN DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

SHEET NO.: 32



GENERATOR AND FUEL TANK REMOTE I/O PANEL - POWER LAYOUT







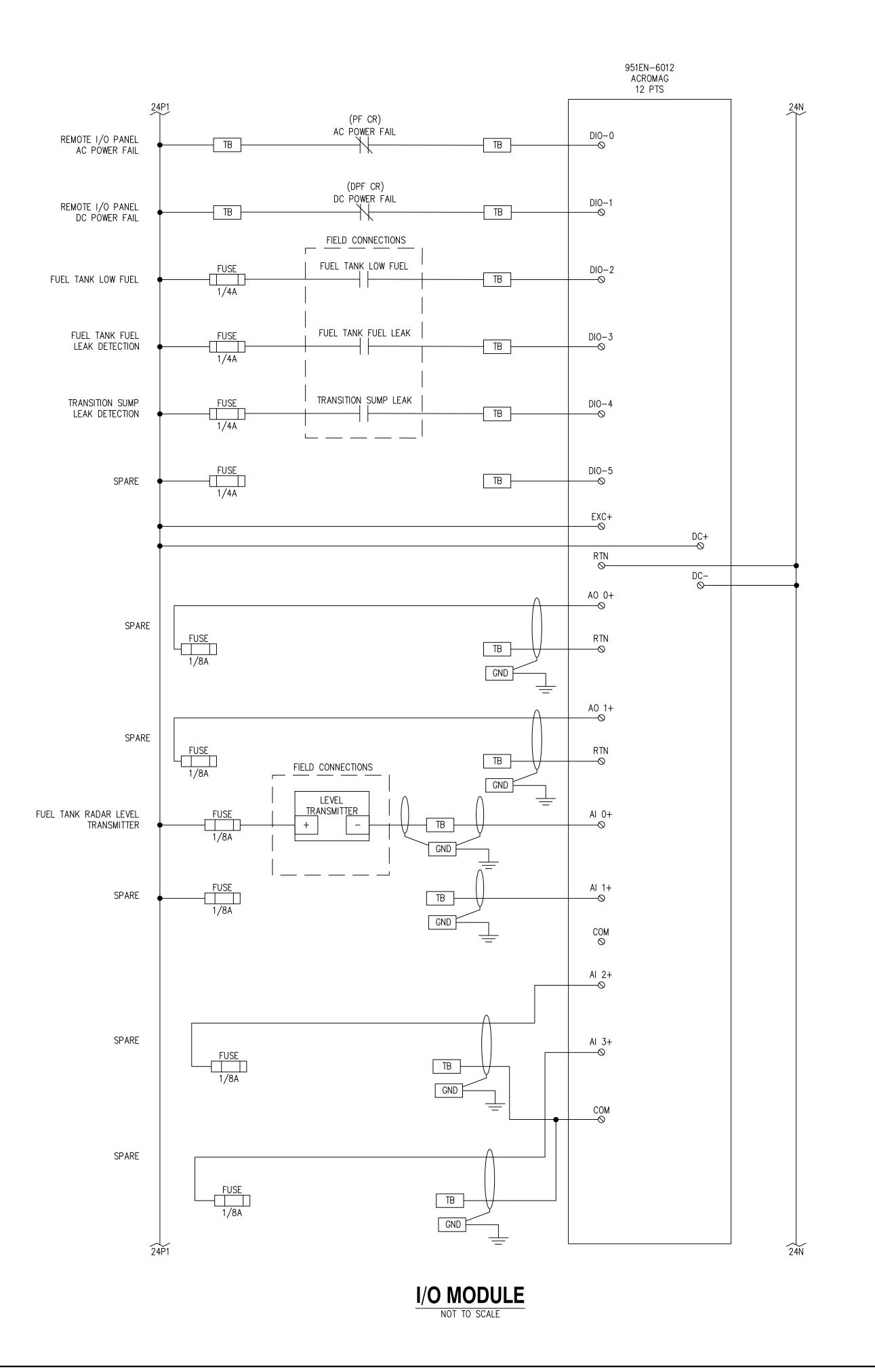
ESTER WTP - REMOTE IO POWER COMMUNICATIONS DIAGRAM

WINCHE

SCALE: SHOWN DRAWING IS FULL SCALE WHEN

BAR MEASURES 2"

COMMUNICATIONS LAYOUT







CITY OF ROSEBURG
WATER TREATMENT PLANT STANDBY
GENERATOR

WTP - REMOTE IO PANEL ND OUTPUT WIRING

WINCHESTER WT INPUT AND

ALAD BECOLD

VE DATE: May 28, 2021 *CLIENT*: ROS *JOB NO*:: 20-0114

OT DATE: May 28, 2021 *FILENAME*: WTPG-D-ELEC08.DWG

REVISIONS

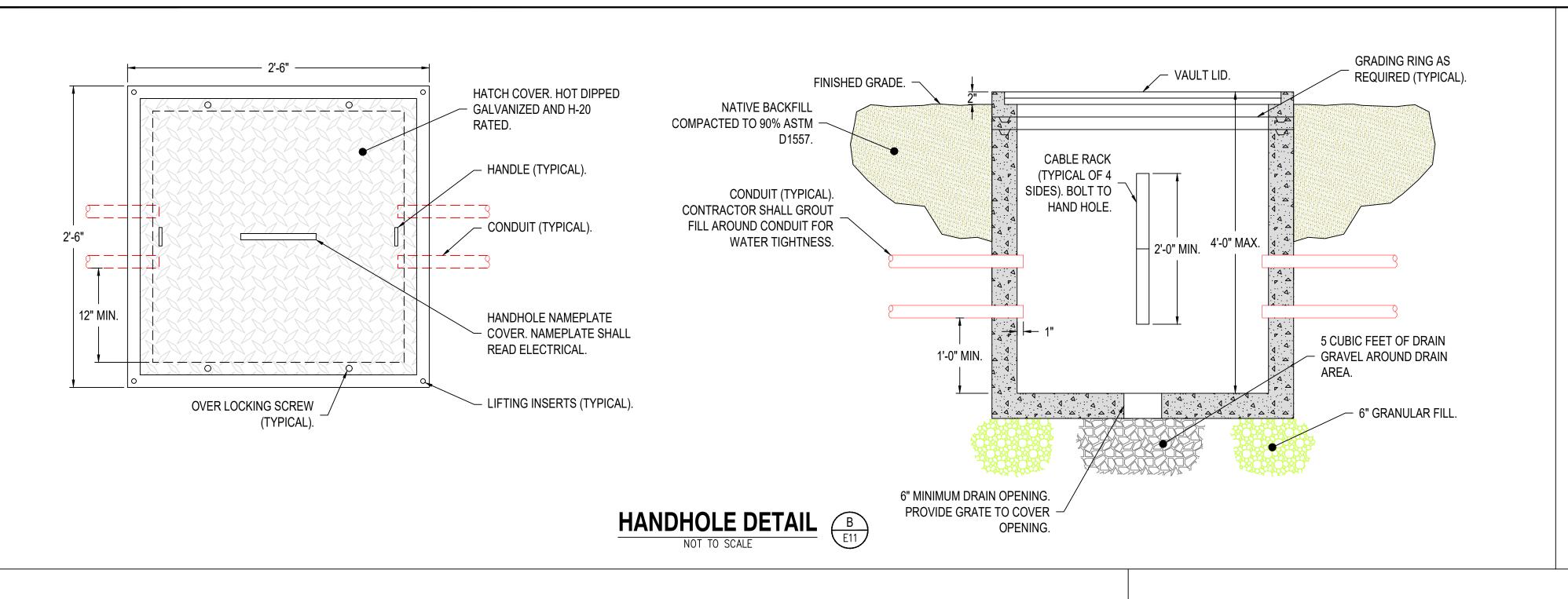
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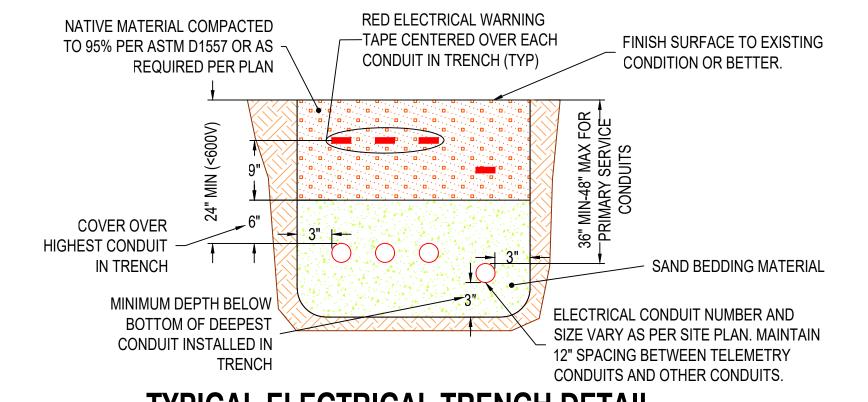
O" 1"

DRAWING IS FULL SCALE WHEN
BAR MEASURES 2"

DWG NO.:

SHEET NO.:





TYPICAL ELECTRICAL TRENCH DETAIL

NOT TO SCALE

ROOF TRUSSES (TYP)

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

GROUT SHALL BE DYED TO MATCH EXISTING BLOCK.

- PROPOSED CONDUIT

PROPOSED CONDUIT "LB",

ANDBY OR

C-CHANNEL OFFSET BRACKET. SECURE

CONDUIT (TYPICAL). CONDUIT

SPACED. CONDUIT SHALL BE

PARALLEL WITH WALLS.

SHALL BE NEATLY AND EQUALLY

TYPICAL WALL-MOUNTED ENCLOSURE

CONDUIT TO BRACKET.

.) SIZE AND NUMBER OF CONDUIT VARIES.

2.) THIS DETAIL TYPICAL FOR ALL SURFACE

MOUNTED CONDUIT.

DETAILS

TRICAL

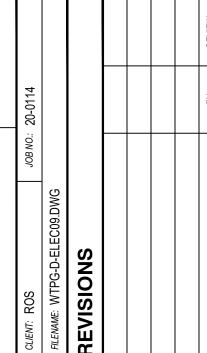
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EXPIRES: 12/31/2022

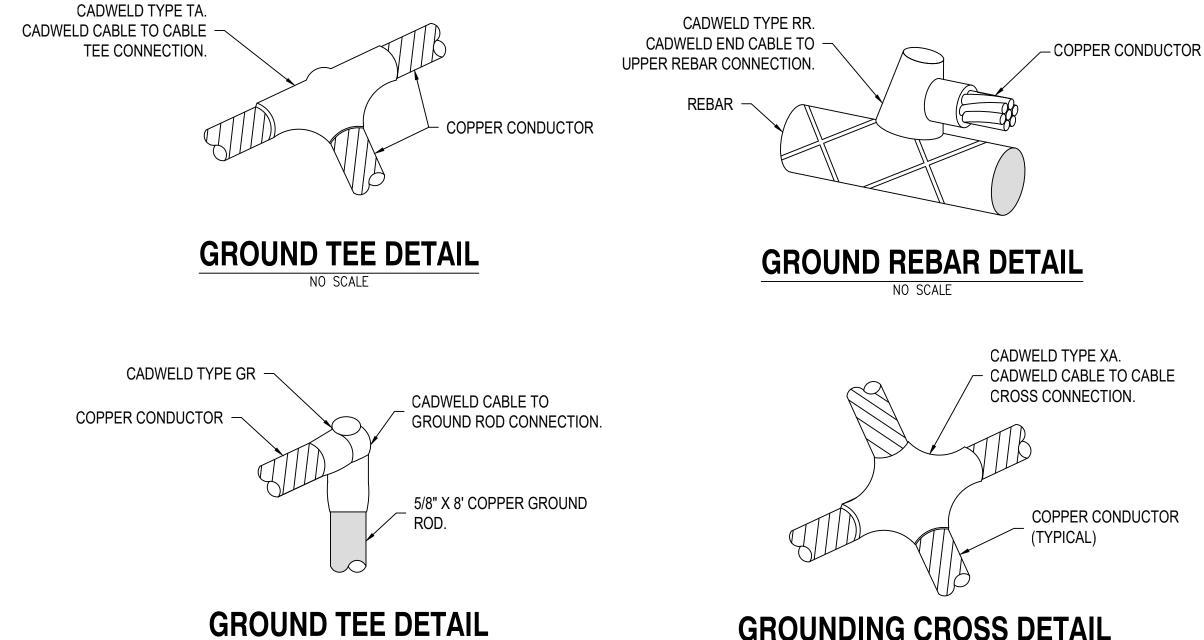
SIGNED: 05/28/2021



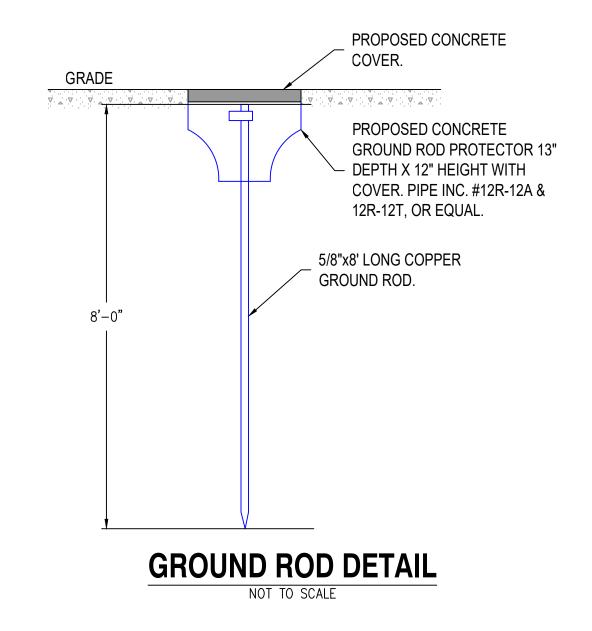


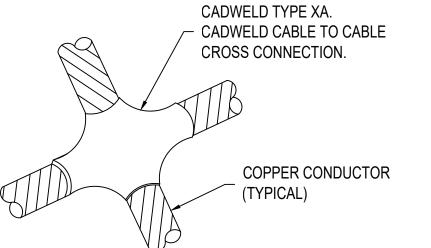
SCALE: SHOWN DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

FLOOR (TYP) **SURFACE MOUNTED CONDUIT** NOT TO SCALE **DETAIL** NOT TO SCALE EXISTING BUILDING EXISTING BUILDING **EXTERIOR WALL** INTERIOR WALL CONTRACTOR SHALL GROUT FILL CONDUIT PENETRATION.



NO SCALE





GROUNDING CROSS DETAIL

EXISTING BUILDING CONDUIT PENETRATION DETAIL

NOT TO SCALE