

Pump Station 17 Photo Detail

6415 77th Ave SE



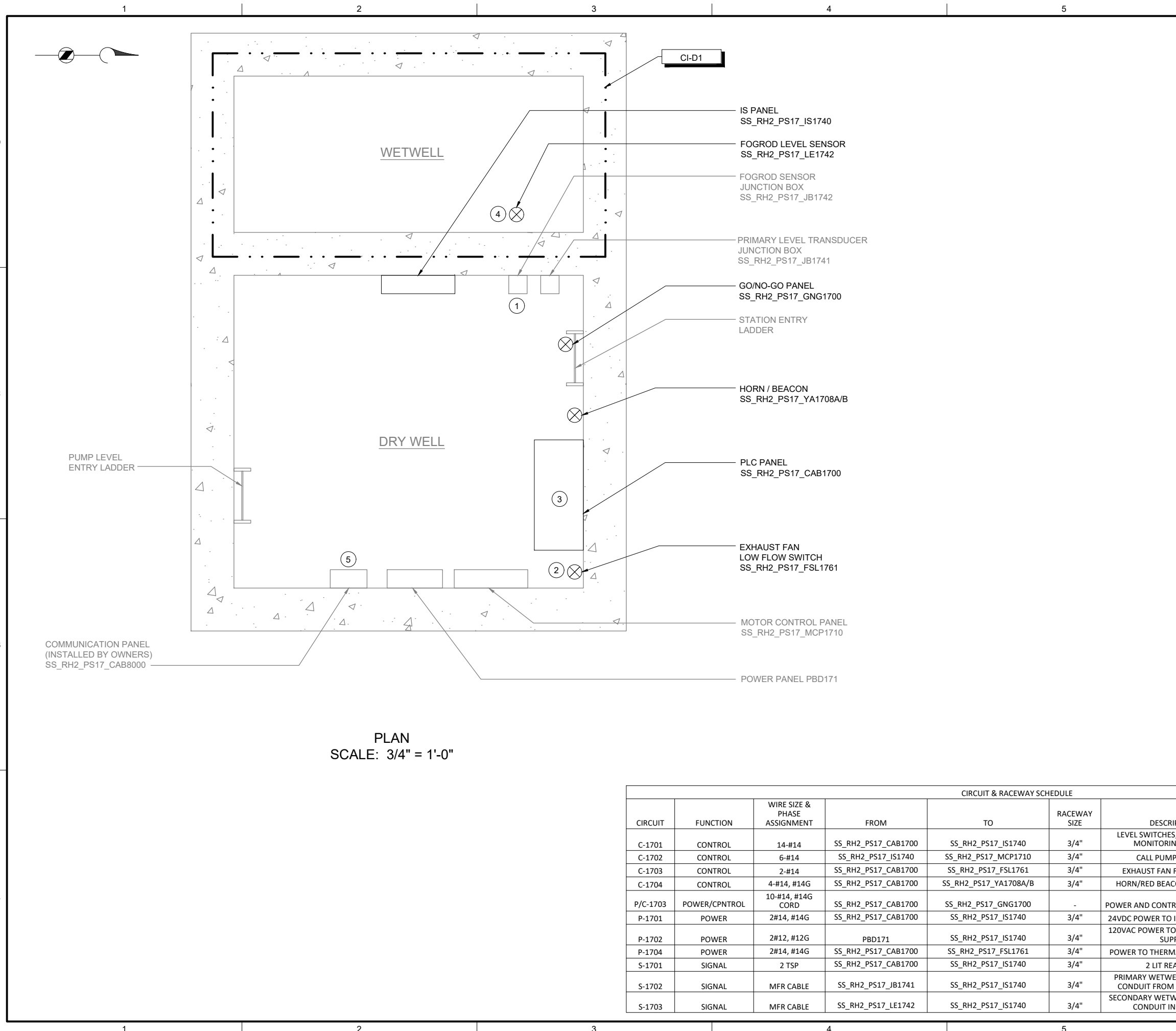
6411 77th Ave SE looking west



PS17 looking east



Path: C:\USERS\JACKSON\BPC\1820948 FILENAME: I-17701.DWG PLOT DATE: 5/10/2022 9:21 AM CAD USER: DAN JACKSON



PLAN
SCALE: 3/4" = 1'-0"

GENERAL NOTES:

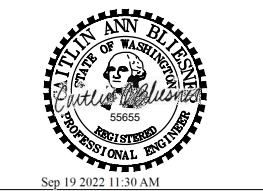
1. PLAN DRAWING IS PARTIAL REPRESENTATION OF THE SITE AND IS ONLY INTENDED TO PROVIDE DETAILS RELATED TO THE SCOPE OF THIS WORK.
2. REFERENCE AS-BUILT RECORD DRAWING BY CAREY & KRAMER CONSULTING ENGINEERS, DRAWING NUMBER 6223-M311.2, SHEET 12 OF 32 FOR ELEVATIONS RELATED TO WIRING AND CONDUIT DEMOLITION.
3. REFER TO CIRCUIT & RACEWAY SCHEDULE ON THIS DRAWING FOR NEW WIRING AND CONDUIT WITHIN THE PUMP STATION.

KEY NOTES:

- 1 REFER TO SPECIFICATION DIVISION 26 05 00 FOR CONDUIT SEAL OFF REQUIREMENTS FROM CLASS I DIV 1 WETWELL.
- 2 REFER TO DWG I-00004 DETAIL C FOR THERMAL FLOW SWITCH INSTALLATION DETAIL ON EXISTING EXHAUST DUCT.
- 3 REFER TO SECTION 26 05 00 FOR PLACING COMPRESSION FITTINGS ON EXISTING CONDUIT TO ROUTE TO NEW PLC PANEL.
- 4 COORDINATE WITH OWNER ON FOGROD INSTALLATION LOCATION IN WETWELL.
- 5 LOCATION OF COMMUNICATION PANEL IS APPROXIMATE. COORDINATE WITH OWNER ON FINAL COMMUNICATION PANEL LOCATION.



BID SET



**CITY OF MERCER ISLAND
SEWER SCADA SYSTEMS REPLACEMENT**

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

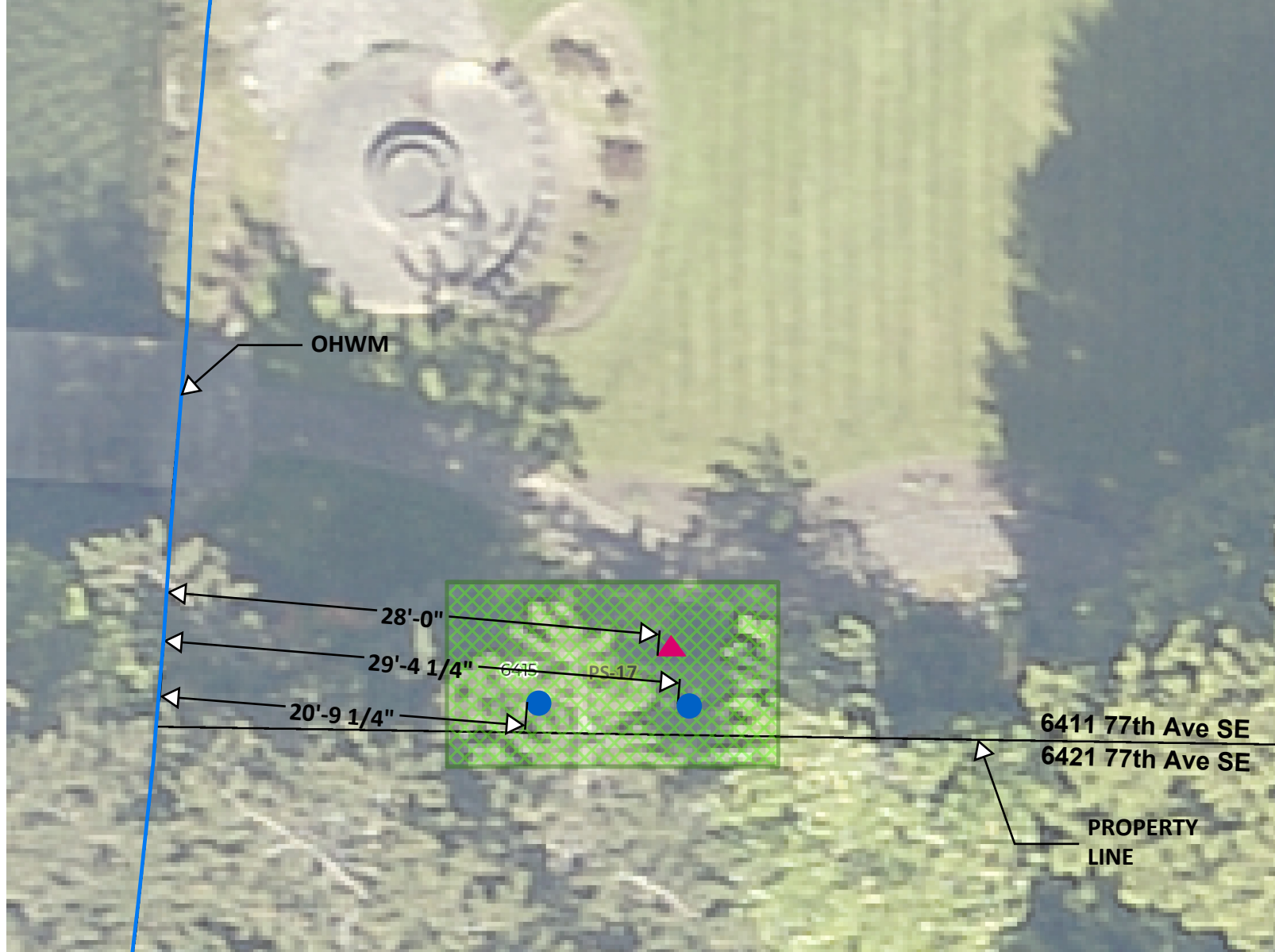
DESIGNED: CAB
DRAWN: DNW
CHECKED: LSL
CHECKED: LSL
APPROVED: CAB

FILENAME: I-17701.DWG
BC PROJECT NUMBER: 153585
CLIENT PROJECT NUMBER

**INSTRUMENTATION
PUMP STATION 17 - PLAN**

DRAWING NUMBER
I-17701
SHEET NUMBER
208 OF 424

CIRCUIT & RACEWAY SCHEDULE							
CIRCUIT	FUNCTION	WIRE SIZE & PHASE ASSIGNMENT	FROM	TO	RACEWAY SIZE	DESCRIPTION	LOCATION(S)
C-1701	CONTROL	14-#14	SS_RH2_PS17_CAB1700	SS_RH2_PS17_IS1740	3/4"	LEVEL SWITCHES, FAULT, PANEL MONITORING, SPARES	GRATING LEVEL
C-1702	CONTROL	6-#14	SS_RH2_PS17_IS1740	SS_RH2_PS17_MCP1710	3/4"	CALL PUMPS TO RUN	GRATING LEVEL
C-1703	CONTROL	2-#14	SS_RH2_PS17_CAB1700	SS_RH2_PS17_FSL1761	3/4"	EXHAUST FAN FLOW SWITCH	GRATING LEVEL
C-1704	CONTROL	4-#14, #14G	SS_RH2_PS17_CAB1700	SS_RH2_PS17_YA1708A/B	3/4"	HORN/RED BEACON FAN ALARM	GRATING LEVEL
P/C-1703	POWER/CPNTROL	10-#14, #14G CORD	SS_RH2_PS17_CAB1700	SS_RH2_PS17_GNG1700	-	POWER AND CONTROL TO GNG PANEL	GRATING LEVEL TO STATION HATCH DOOR
P-1701	POWER	2#14, #14G	SS_RH2_PS17_CAB1700	SS_RH2_PS17_IS1740	3/4"	24VDC POWER TO IS PANEL MODULE	GRATING LEVEL
P-1702	POWER	2#12, #12G	PBD171	SS_RH2_PS17_IS1740	3/4"	120VAC POWER TO IS PANEL POWER SUPPLY	GRATING LEVEL
P-1704	POWER	2#14, #14G	SS_RH2_PS17_CAB1700	SS_RH2_PS17_FSL1761	3/4"	POWER TO THERMAL FLOW SWITCH	GRATING LEVEL
S-1701	SIGNAL	2 TSP	SS_RH2_PS17_CAB1700	SS_RH2_PS17_IS1740	3/4"	2 LIT READINGS	GRATING LEVEL
S-1702	SIGNAL	MFR CABLE	SS_RH2_PS17_JB1741	SS_RH2_PS17_IS1740	3/4"	PRIMARY WETWELL LEVEL *NEW CONDUIT FROM JB TO IS PANEL	GRATING LEVEL
S-1703	SIGNAL	MFR CABLE	SS_RH2_PS17_LE1742	SS_RH2_PS17_IS1740	3/4"	SECONDARY WETWELL LEVEL *NEW CONDUIT IN DRY WELL	GRATING LEVEL



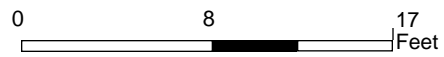
Legend

- Sewer Pump Station
- Address
- Parcels
- Buildings
- Major Roads
- Street Centerline
- Paved Road
- Paved Driveway
- Paved Parking Area
- Parks

Spring 2019

- Red: Band_1
- Green: Band_2
- Blue: Band_3

- 8' Antenna
- 40" Vent



1 inch =
16.666666666667
feet



Disclaimer: These maps were developed by the City of Mercer Island and are intended to be a general purpose digital reference tool. These maps are not an accepted legal instrument for describing, establishing, recording or maintaining descriptions for property concerns or boundaries. The City makes no representation or warranty with respect to the accuracy or currency of these data sets, especially in regard to labeling of surveyed dimensions, or agreement with official sources such as records of survey, or mapped locations of features.

Notes

Typical Sewer Pump Station
Exterior Modifications



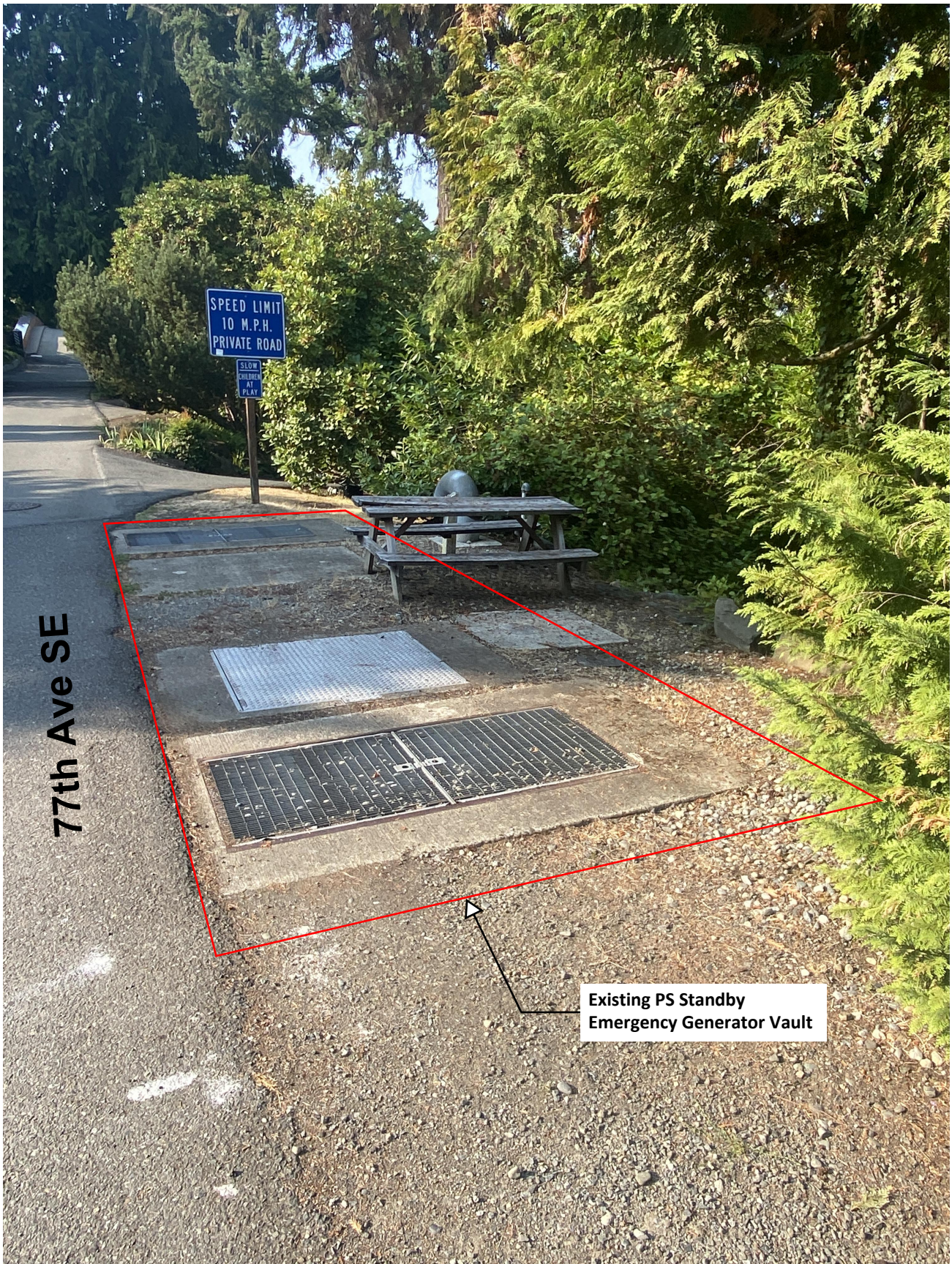
8 FT

40"

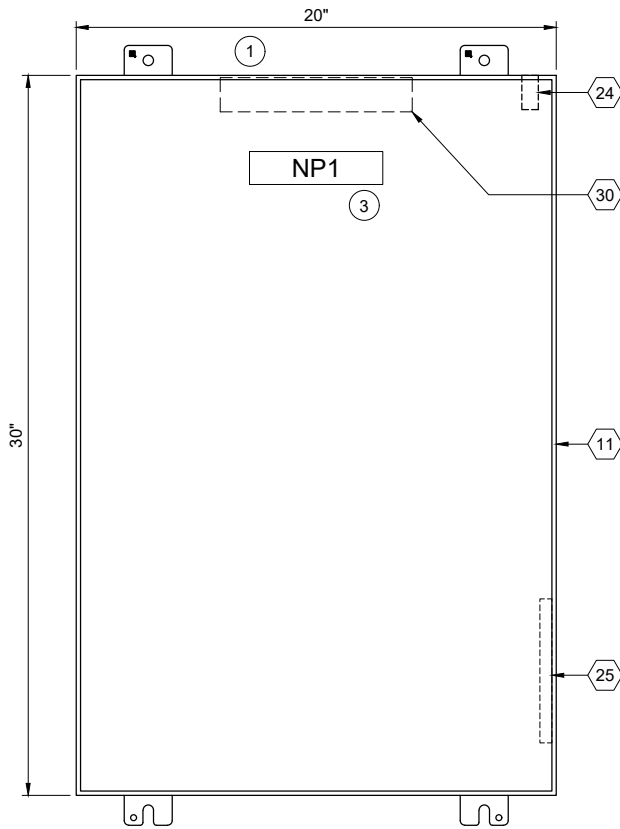
40"

Pump Station 17 Generator Photo Detail

6415 77th Ave SE

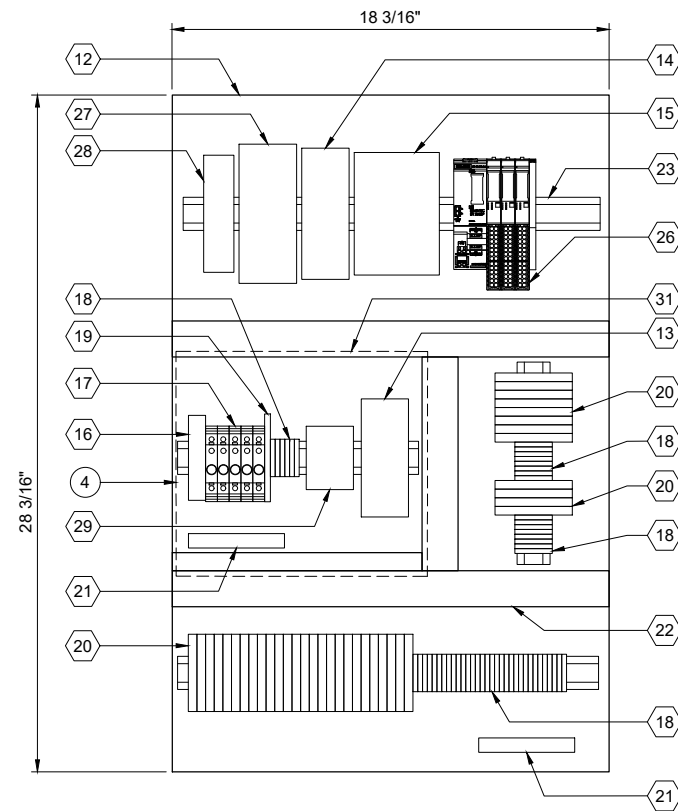


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ENCLOSURE EXTERIOR

DETAIL A



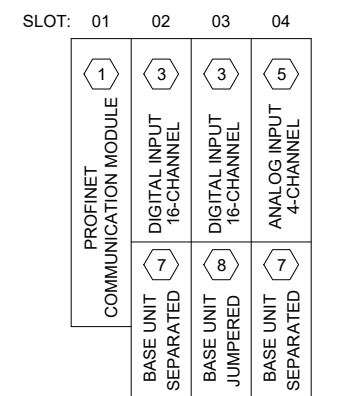
BACK PANEL LAYOUT

DETAIL B

②

REMOTE I/O BILL OF MATERIALS		
ITEM NO.	DESCRIPTION	QUANTITY
1	PROFINET COMMUNICATION MODULE	1
2	NOT USED	
3	16 CHANNEL DIGITAL INPUT MODULE	2
4	NOT USED	
5	4 CHANNEL ANALOG INPUT MODULE	1
6	NOT USED	
7	IO MODULE BASE UNIT, SEPARATED	2
8	IO MODULE BASE UNIT, JUMPERED	1
9	NOT USED	
10	NOT USED	

PANEL BILL OF MATERIALS		
ITEM NO.	DESCRIPTION	QUANTITY
11	NEMA 4X ENCLOSURE	1
12	BACK PANEL	1
13	24 VDC POWER SUPPLY	1
14	24 VDC UPS	1
15	24 VDC UPS BATTERY	1
16	SURGE PROTECTION DEVICE	1
17	CIRCUIT BREAKER	A/R
18	TERMINAL BLOCKS	A/R
19	CONTROL RELAY	A/R
20	FUSED TERMINAL BLOCK	A/R
21	GROUND BAR	2
22	WIREWAY (SIZE AS REQUIRED)	A/R
23	DIN RAIL, 35 MM	A/R
24	ENCLOSURE DOOR SWITCH	1
25	LOW PROFILE HEATER	1
26	SIEMENS REMOTE I/O	KEY NOTE 2
27	MANAGED NETWORK SWITCH	1
28	DC TO DC CONVERTER, NEC CLASS 2 OUTPUT	1
29	THERMOSTAT	1
30	ENCLOSURE LIGHT W/SWITCH	1
31	CLEAR COVER BOX (SIZE AS REQUIRED)	A/R



SS_RH2_PS17_RIO1701
REMOTE I/O RACK LAYOUT

NAMEPLATE SCHEDULE			
NPX	LINE 1	LINE 2	LINE 3
NP1	SS_RH2_PS17_RIO1700	PUMP STATION 17	RIO PANEL

GENERAL NOTES:

- THIS DRAWING IS GENERAL IN NATURE AND DEPICTS GENERAL PANEL LAYOUT AND FABRICATION REQUIREMENTS FOR THE APPLICABLE CONTROL PANEL. FABRICATE PANEL IN ACCORDANCE WITH SECTIONS 40 67 00 AND 40 63 43.

KEY NOTES:

- INSTALL NEW REMOTE I/O PANEL AT GENERATOR SITE. REFER TO DRAWING I-17801 FOR PANEL LOCATION.
- REMOTE I/O BILL OF MATERIALS LISTS MAIN COMPONENTS. REFER TO SECTION 40 63 43 FOR DETAILS AND ACCESSORIES.
- NAMEPLATE TO BE PROVIDED FOR ENCLOSURE. REFER TO NAMEPLATE SCHEDULE (NP1) ON THIS SHEET FOR NAMEPLATE INFORMATION.
- PROVIDE CLEAR COVER BOX OVER 120VAC COMPONENTS IN THE PANEL. PROVIDE LABEL ON COVER: "WARNING - DO NOT WORK ON 120VAC COMPONENTS WHILE ENERGIZED".



701 PIKE STREET
SUITE 1200
SEATTLE, WASHINGTON

BID SET



Sep 19 2022 11:30 AM



CITY OF
MERCER ISLAND
SEWER SCADA
SYSTEMS
REPLACEMENT

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CAB
DRAWN: DNW
CHECKED: LSL
CHECKED: LSL
APPROVED: CAB
FILENAME: I-17811.DWG
BC PROJECT NUMBER: 153585
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INSTRUMENTATION

PUMP STATION 17 -
GENERATOR
REMOTE I/O PANEL
LAYOUT

DRAWING NUMBER

I-17811

SHEET NUMBER
210 OF 424