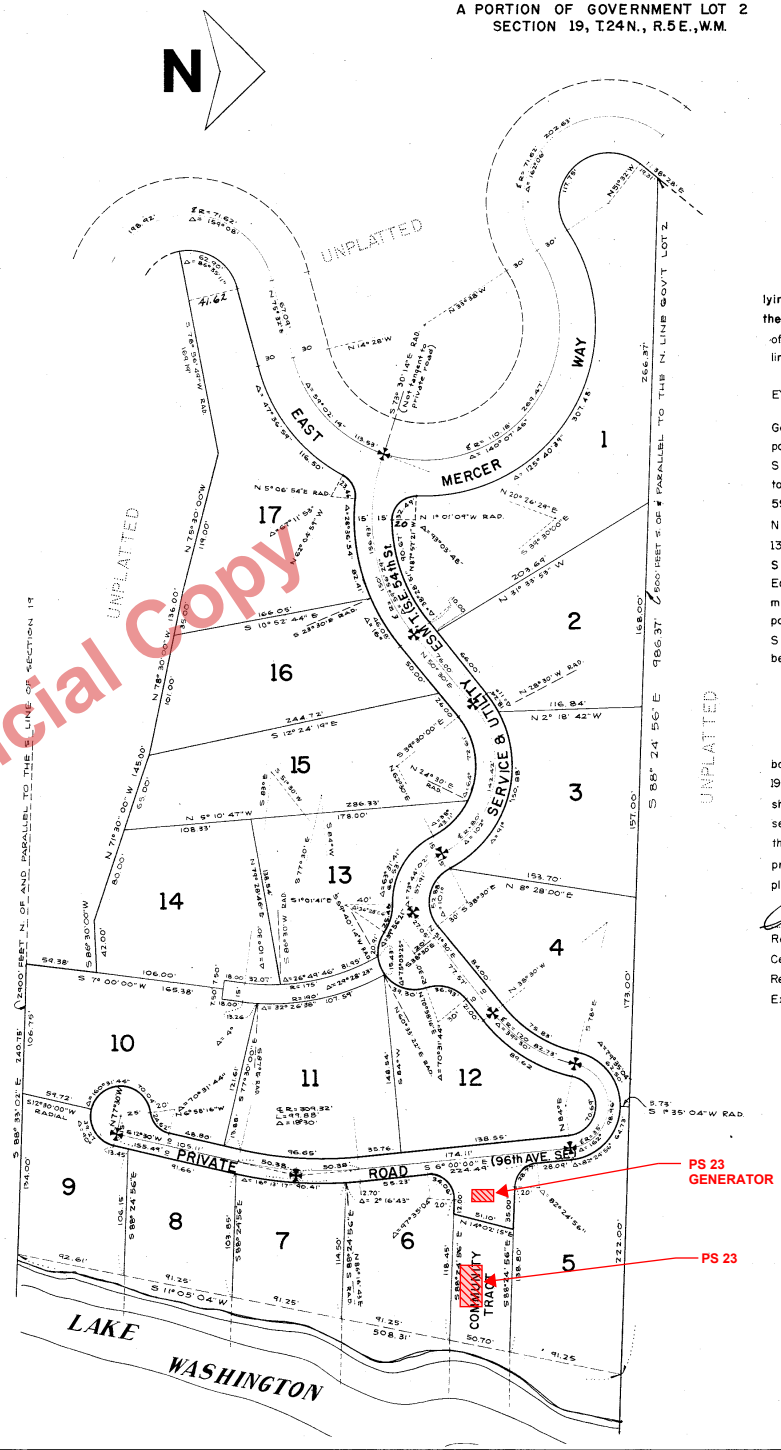
ENGINEER: Robert W. Jones

CAY HILLS

A PORTION OF GOVERNMENT LOT 2
SECTION 19, T.24N., R.5E., W.M.

Sheet 1 of 2
Scale 1" = 60'



DESCRIPTION

This plat of Cay Hills embraces that portion of Government Lot 2, Sec. 19, T24N, R5E, W.M. lying east of East Mercer Way except the north 500 feet thereof and except that portion thereof lying south of a line 2,900 feet north of and parallel to the south line of said Section 19, together with shorelands adjacent;

EXCEPT that portion thereof described as follows:
Beginning at the intersection of the west line of said Government Lot 2 with a line 2,900 feet north of and parallel to the south line of said Section 19; thence S 88° 33' 02" E parallel to said south line 1328.34 feet to the true point of beginning; thence N 07° 00' 00" E 59.38 feet; thence S 86° 30' 00" W 42.00 feet; thence N 71° 30' 00" W 145.00 feet; thence N 78° 30' 00" W 136.00 feet; thence N 75° 30' 00" W 119.00 feet; thence S 78° 56' 49" W 169.19 feet to the easterly margin of East Mercer Way, thence southerly along said easterly margin to an intersection with a line 2,900 feet north of and parallel to the south line of said Sec. 19, thence S 88° 33' 02" E along said line to the true point of beginning.

ENGINEER'S CERTIFICATE

I hereby certify that this plat of CAY HILLS is based upon an actual survey and subdivision of Section 19, T24N., R5E., W.M.; that the distances and courses are shown hereon correctly, that the monuments have been set and the lot and block corners staked correctly on the ground and that I have fully complied with the provisions of the statutes and the regulations governing platting.

Robert W. Jones
Certificate number 2534
Renewal number 514-0130300
Expiration date 1 January 1963

CAY HILLS
(CONTINUED)

SIGNATURES ILLEGIBLE DUE TO USE OF COLORED INKS

DECLARATION

KNOW ALL MEN BY THESE PRESENTS that we the undersigned, owners in fee simple of the land hereby platted hereby declare this plat

IN WITNESS WHEREOF we have set our hands and seals.

J.D. Fiorito

Vera S. Fiorito

Elmer A. DeTore

Mary Fiorito DeTore

Ernest Ferullo

Florence Fiorito Ferullo

Waldo Merlino

Gertrude Fiorito Merlino

David S Cahill

Sally S. Cahill

ACKNOWLEGEMENTS

State of Washington
County of King } S.S.

THIS IS TO CERTIFY that on this ... day of ..., A.D., 1962, before me the undersigned, a notary public, personally appeared J.D. Fiorito and Vera S. Fiorito, his wife, to me known to be the individuals who executed the within declaration and acknowleged to me that they signed and sealed the same as their voluntary act and deed for the use and purposes therein mentioned

WITNESS my hand and official seal the day and year first written.

DONNA R. WEBB NOTARY PUBLIC COMMISSION EXPIRES OCT. 14, 1965 STATE OF WASHINGTON

Notary public in and for the
State of Washington residing at ...
My Commission expires ...

State of Washington
County of King } S.S.

THIS IS TO CERTIFY that on this ... day of ..., A.D., 1962, before me the undersigned, a notary public, personally appeared Elmer A. DeTore and Mary Fiorito DeTore, his wife, to me known to be the individuals who executed the within declaration and acknowleged to me that they signed and sealed the same as their voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal the day and year first written

DONNA R. WEBB NOTARY PUBLIC COMMISSION EXPIRES OCT. 14, 1965 STATE OF WASHINGTON

Notary public in and for the
State of Washington residing at ...
My Commission expires ...

State of Washington
County of King } S.S.

THIS IS TO CERTIFY that on this ... day of ..., A.D., 1962, before me the undersigned, a notary public, personally appeared Ernest Ferullo and Florence Fiorito Ferullo, his wife, to me known to be the individuals who executed the within declaration and acknowleged to me that they signed and sealed the same as their voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal the day and year first written

DONNA R. WEBB NOTARY PUBLIC COMMISSION EXPIRES OCT. 14, 1965 STATE OF WASHINGTON

Notary public in and for the
State of Washington residing at ...
My Commission expires ...

State of Washington
County of King } S.S.

THIS IS TO CERTIFY that on this ... day of ..., A.D., 1962, before me the undersigned, a notary public, personally appeared Waldo Merlino and Gertrude Fiorito Merlino, his wife, to me known to be the individuals who executed the within declaration and acknowleged to me that they signed and sealed the same as their voluntary act and deed for the use and purposes therein mentioned

WITNESS my hand and official seal the day and year first written.

DONNA R. WEBB NOTARY PUBLIC COMMISSION EXPIRES OCT. 14, 1965 STATE OF WASHINGTON

Notary public in and for the
State of Washington residing at ...
My Commission expires ...

State of Washington
County of King } S.S.

THIS IS TO CERTIFY that on this ... day of ..., A.D., 1962 before me the undersigned, a notary public, personally appeared David S. Cahill and Sally S. Cahill, his wife, to me known to be the individuals who executed the within declaration and acknowledged to me that they signed and sealed the same as their voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal the day and year first written.

Notary public in and for the
State of Washington residing at ...
My Commission expires ...

APPROVALS

Examined and approved this 10TH day of AUGUST, A.D., 1962

Russell D. David
City Engineer

RUSSELL D. DAVID STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

I hereby certify that this plat complies with the conditions set forth by the Mercer Island Planning Commission and is duly approved this 15th day of August A.D, 1962

George N. Sims
Chairman

Secretary

Approved by the Mercer Island City Council this 27 day of Aug. A.D., 1962.

Mayor, City of Mercer Island

Attest: City Clerk

I hereby certify that there are no delinquent special assessments and that all special assessments on any of the property hereon contained dedicated as streets, alleys or for other public use are paid in full this 28 day of August, A.D., 1962.

City Clerk-Treasurer

CITY OF MERCER ISLAND CORPORATE SEAL WASHINGTON

TREASURERS CERTIFICATE

I hereby certify that all property taxes are paid, that there are no delinquent special assessments certified to this office for collection and all special assessments on any property herein dedicated as streets, alleys or other public use are paid for in full this 29th day of AUGUST, A.D., 1962

King County Treasurer

5473100

TREASURER KING COUNTY OFFICIAL SEAL WASHINGTON

RECORDING CERTIFICATE

Filed for the record at the request of the City of Mercer Island City Council this 29TH day of AUGUST, A.D., 1962 at 58 minutes past 2:00 P.M. and recorded in Vol. 70 of Plats, pages 95 96 Records of King County, Washington.

Robert A. Morris
County Auditor

M. R. Williams
Deputy County Auditor

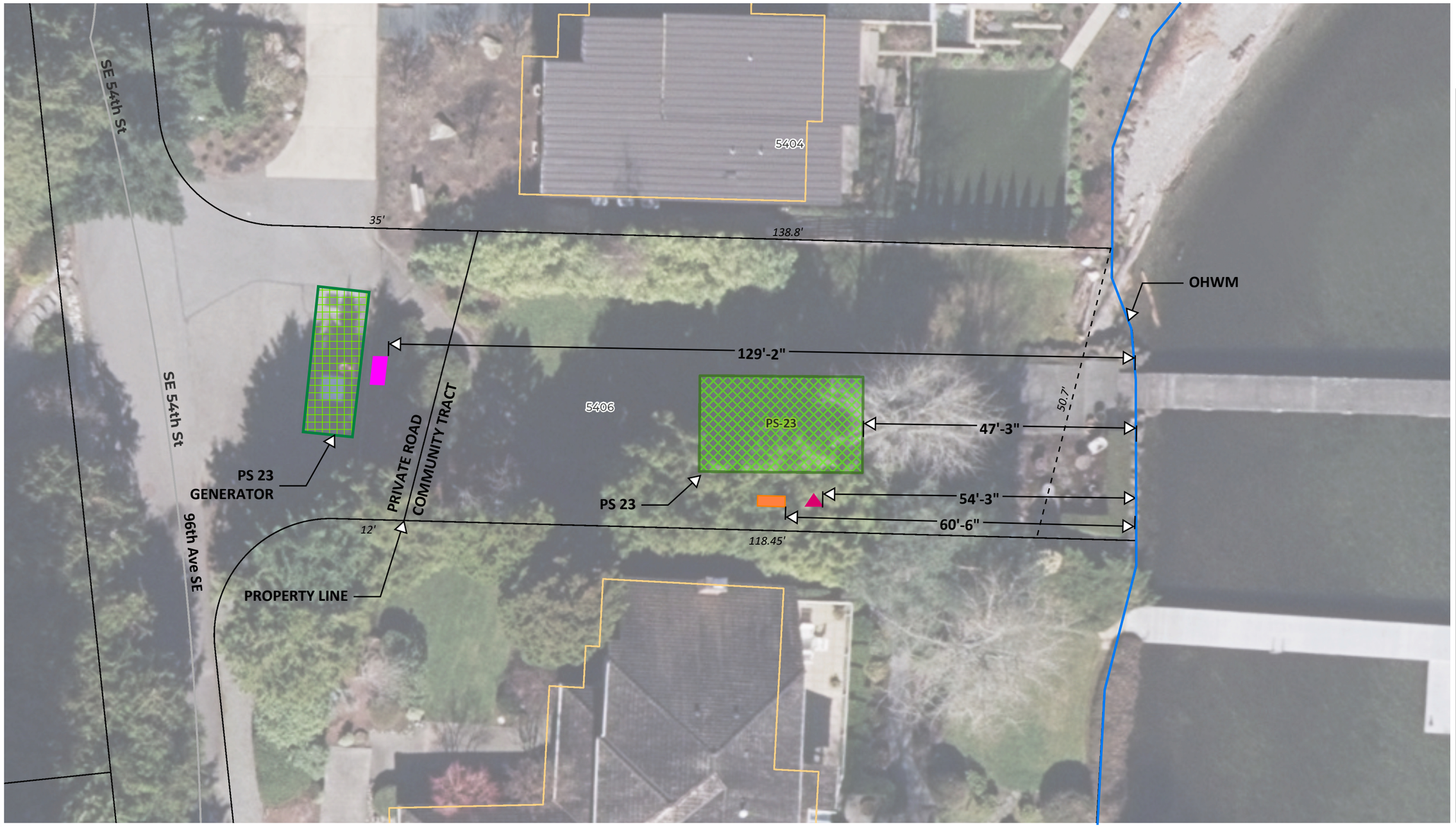
RESTRICTIONS

No lot or portion of a lot in this plat shall be divided and sold or resold or ownership changed or transferred whereby the ownership of any portion of this plat shall be less than the area required for the use district in which located.

Lots 4, 10, 11, 12 and 13 shall each have an undivded one-fifth (1/5) interest in the Community Tract

ANNA MARIE DAVIS NOTARY PUBLIC COMMISSION EXPIRES MAY 20, 1962 STATE OF WASHINGTON

Pump Station 23 and Pump Station 23 Generator Above Ground Structure (ABS) Improvements
5406 96th Ave SE



Legend

- Sewer Pump Station
- Address
- Parcels
- Buildings
- Major Roads
- Street Centerline
- Parks
- March 2020
  - Red: Band_1
  - Green: Band_2
  - Blue: Band_3
- 8' Antenna
- 6' Electrical Equipment Pedestal
- 8' Support Pedestal w/ 12' Vent Pipes

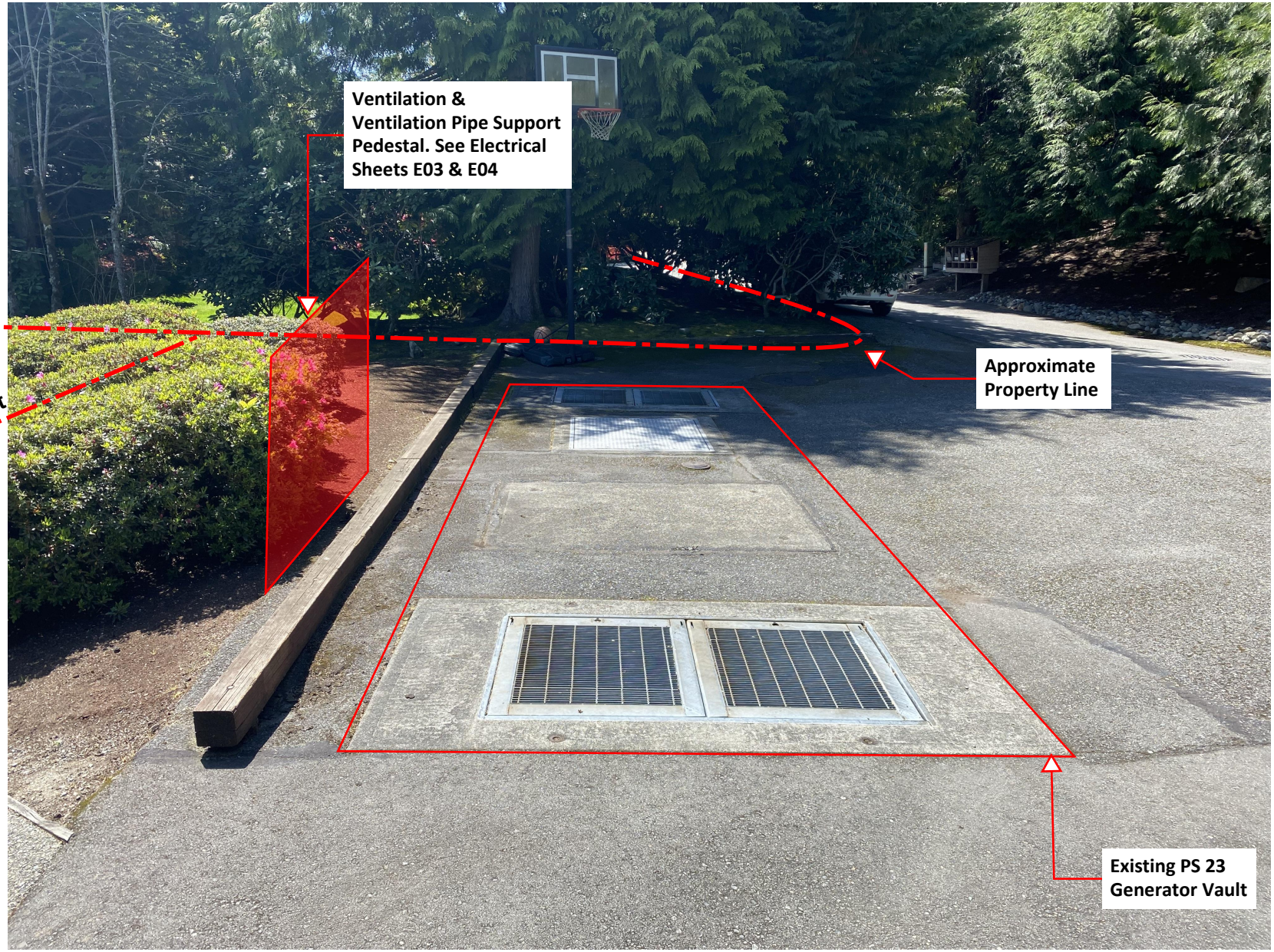
1: 200

25.5 0 12.75 25.5 Feet

Map Printed: September 12, 2023

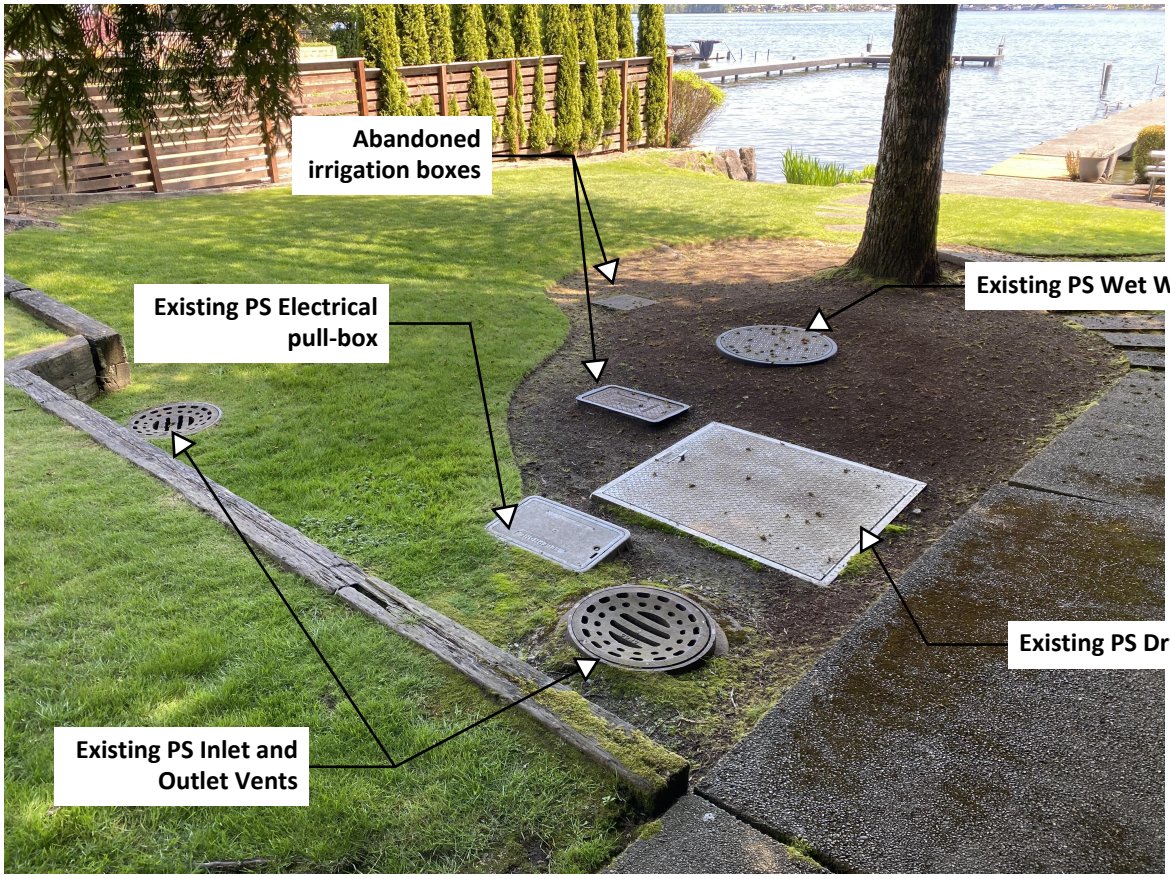
Notes

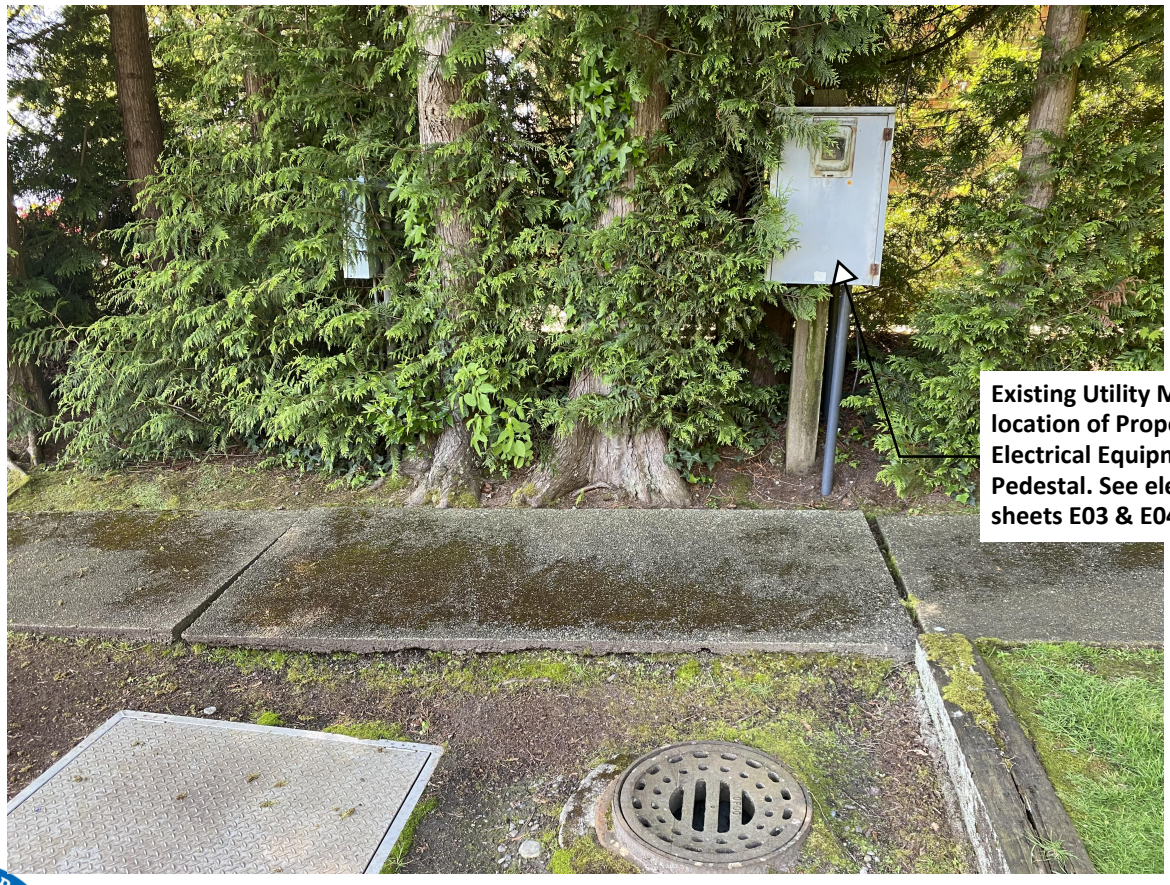
Pump Station 23 Generator Photo Detail
5406 96th Ave SE



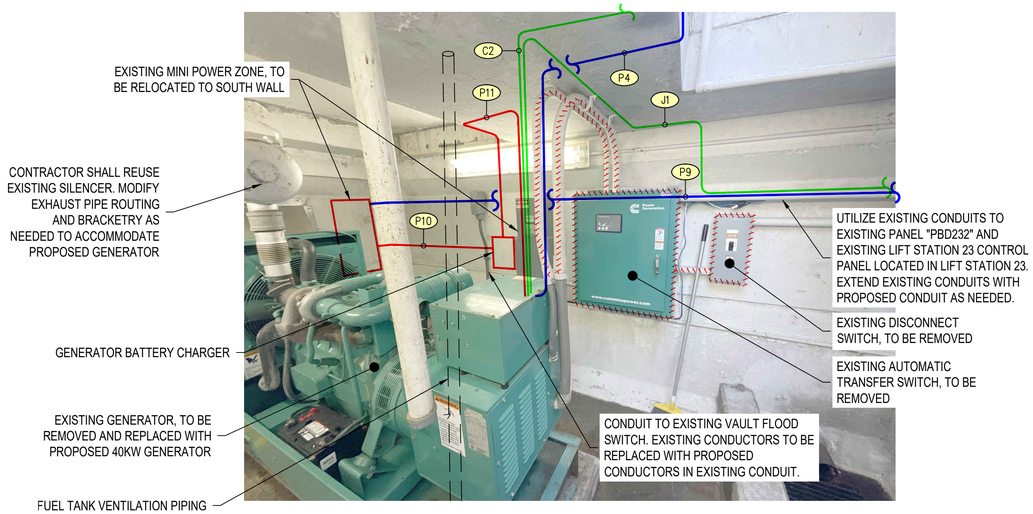
Note: Property lines shown are approximate. Refer to Cay Hills Tract Map King County Plat Book 70 Pages 95-96

Pump Station 23 Photo Detail
5406 96th Ave SE



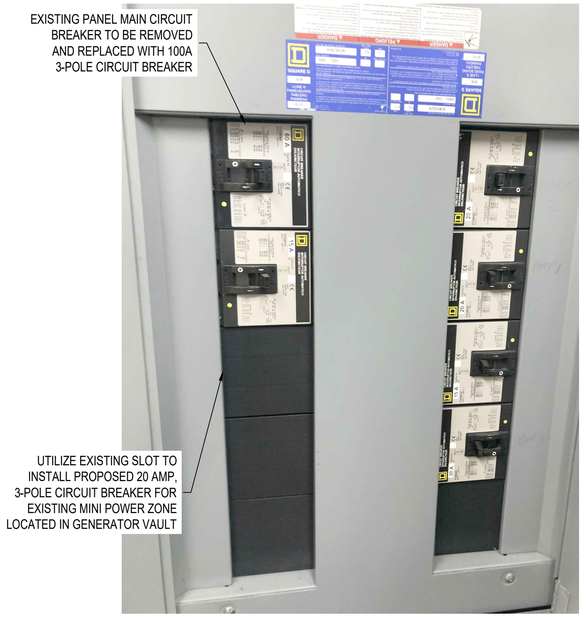


Note: Location of Proposed 8' Antenna to be field determined. Max. 6' from PS.



EXISTING GENERATOR VAULT INTERIOR

NO SCALE

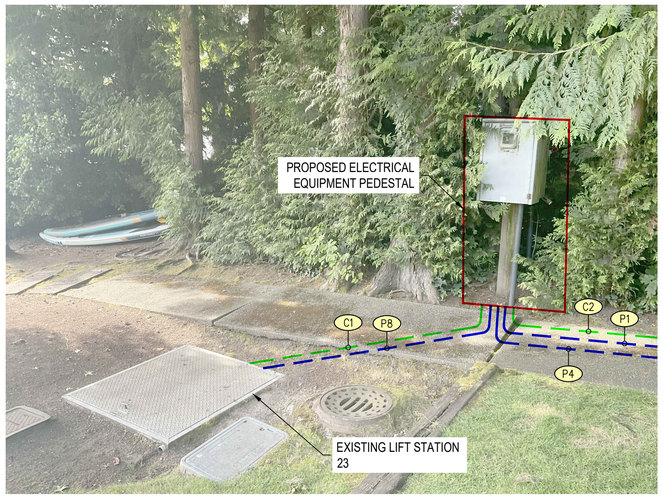


EXISTING 480V PANEL, "PBD232"

NO SCALE

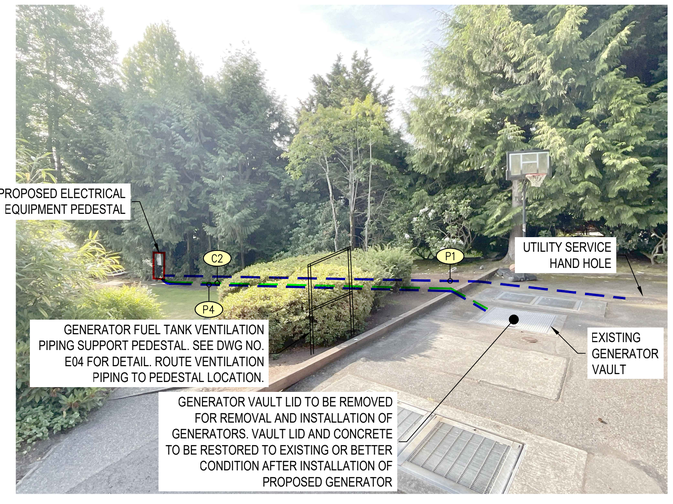
LIFT STATION 23 EXISTING METER AND DISCONNECT PEDESTAL

NO SCALE



LIFT STATION 23 SITE

NO SCALE



LIFT STATION 23 SITE

NO SCALE

ELECTRICAL NOTES	
XX	1. SEE DWG NO. E04 FOR CONDUIT AND CONDUCTOR SCHEDULE.

RH2

CHRISTOPHER MICHAEL ROBERTS — STATE OF WASHINGTON — 45317 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

MARK W. BRAASCH — STATE OF WASHINGTON — 51635 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

CITY OF MERCER ISLAND
SEWER PUMP STATION GENERATOR REPLACEMENT

LS 23 ELECTRICAL PLAN

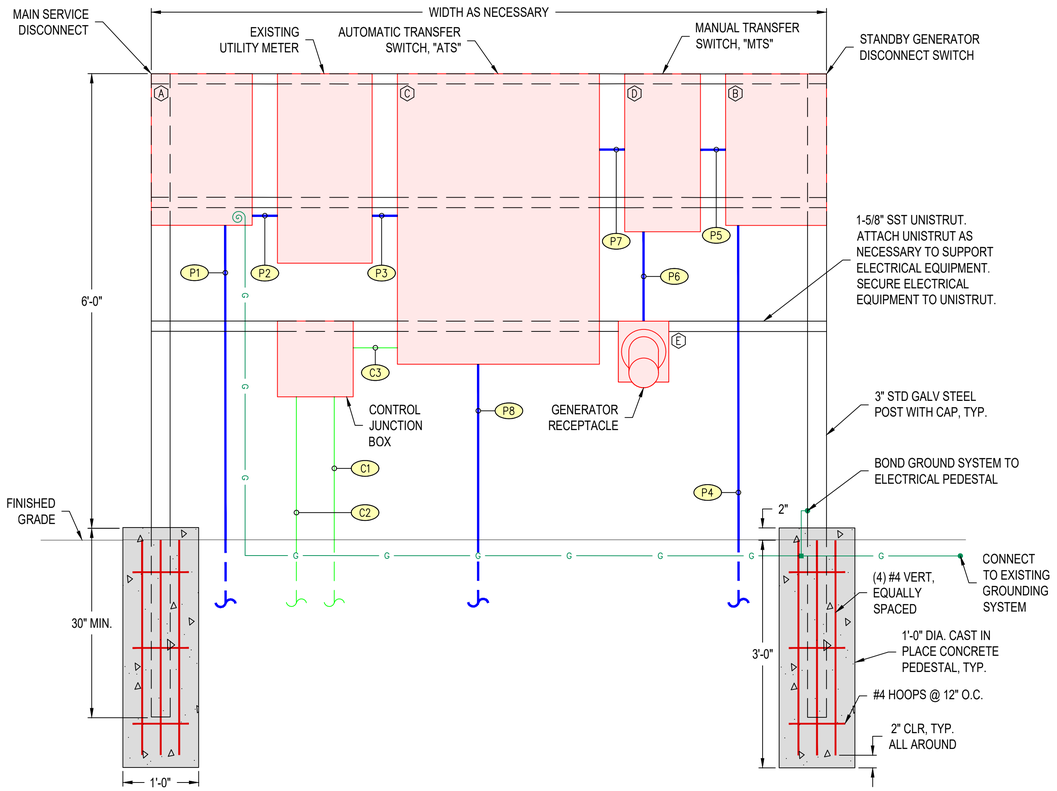
ENGINEER: MBD
REVIEWED: MWB
SAVE DATE: Jul 31, 2023
PLOT DATE: Aug 11, 2023
CLIENT: MI
FILENAME: PSGR-D-ELEC02.DWG
JOB NO.: 210-262

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW

SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E03
SHEET NO.: 3 7



ELECTRICAL EQUIPMENT PEDESTAL DETAIL

NOT TO SCALE

POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
P1	EXISTING UTILITY SERVICE	MAIN SERVICE DISCONNECT	–	(3) – #3, (1) – #3 N	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT
P2	MAIN SERVICE DISCONNECT	EXISTING UTILITY METER	1 1/2"	(3) – #3, (1) – #3 N, (1) – #8 GRD	
P3	EXISTING UTILITY METER	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, "PBD232"	1 1/2"	(3) – #3, (1) – #3 N, (1) – #8 GRD	
P9	EXISTING PANEL, "PBD232"	EXISTING MINI POWER ZONE	–	(3) – #12, (1) – #12 GRD	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT
P10	EXISTING MINI POWER ZONE	GENERATOR BATTERY CHARGER	3/4"	(2) – #12, (1) – #12 GRD	
P11	GENERATOR BATTERY CHARGER	STANDBY GENERATOR	3/4"	(2) – #12, (1) – #12 GRD	

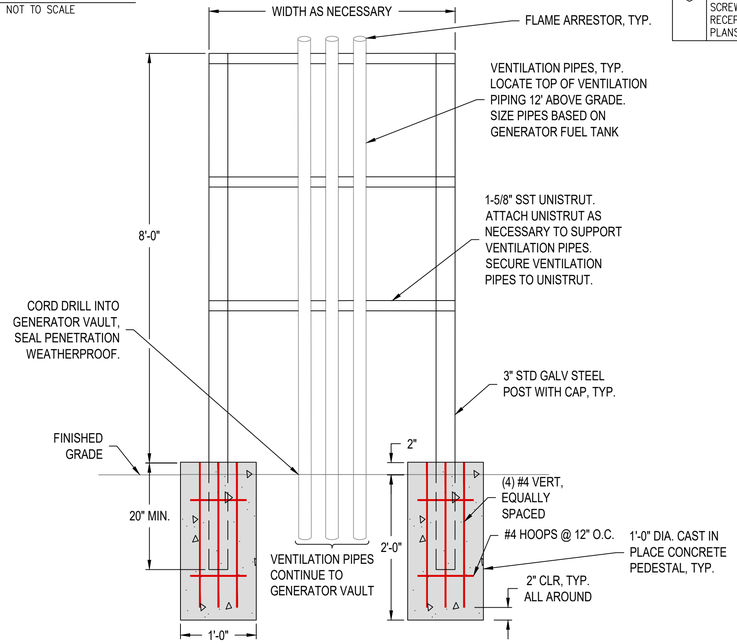
CONTROL CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
C1	EXISTING LIFT STATION 23 CONTROL PANEL	CONTROL JUNCTION BOX	3/4"	(14) – #14, (1) – #14 GRD	
C2	CONTROL JUNCTION BOX	STANDBY GENERATOR	3/4"	(11) – #14, (1) – #14 GRD	START SIGNAL FROM ATS, GENERATOR ALARMS TO LS–23 CONTROL PANEL
C3	CONTROL JUNCTION BOX	AUTOMATIC TRANSFER SWITCH, "ATS"	3/4"	(9) – #14, (1) – #14 GRD	START SIGNAL FROM ATS, ATS ALARMS TO LS–23 CONTROL PANEL

INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
J1	STANDBY GENERATOR	EXISTING LIFT STATION 23 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, 480 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, 480 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, 480 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 – 480 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

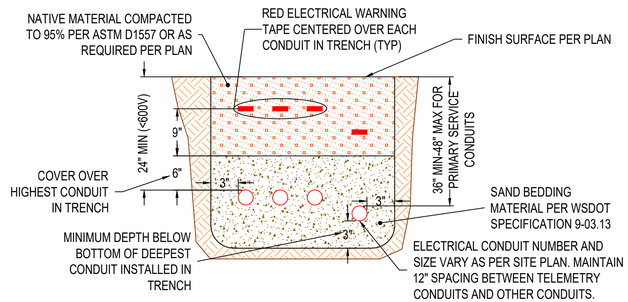
PROPOSED DISCRETE INPUTS		
EXISTING DIGITAL INPUT CARD		
SLOT	CHANNEL	NAME
5	4	GENERATOR RUN STATUS
5	5	GENERATOR FAULT
5	6	GENERATOR LOW FUEL ALARM
5	7	GENERATOR PRE–ALARM WARNING
5	8	ATS IN NORMAL
5	9	ATS IN GENERATOR
5	10	ATS UTILITY POWER AVAILABLE
5	11	GENERATOR VAULT FLOOD SWITCH ALARM

PROPOSED ANALOG INPUTS		
EXISTING ANALOG INPUT CARD		
SLOT	CHANNEL	NAME
11	1	GENERATOR FUEL LEVEL



VENTILATION PIPE SUPPORT PEDESTAL DETAIL

NOT TO SCALE



TYPICAL ELECTRICAL TRENCH DETAIL

NOT TO SCALE

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

RH2

CHRISTOPHER MICHAEL ROBERTS — STATE OF WASHINGTON — 45317 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

MARK W. BRAKSON — STATE OF WASHINGTON — 51635 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

CITY OF MERCER ISLAND
SEWER PUMP STATION GENERATOR REPLACEMENT

LS 23 ELECTRICAL DETAILS, SCHEDULES AND TELEMETRY MODIFICATIONS

ENGINEER: MBD
REVIEWED: MWB
SAVE DATE: Jul 31, 2023
PLOT DATE: Aug 11, 2023
CLIENT: MI
FILENAME: PSGR-D-ELEC02.DWG
JOB NO.: 210-262

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW

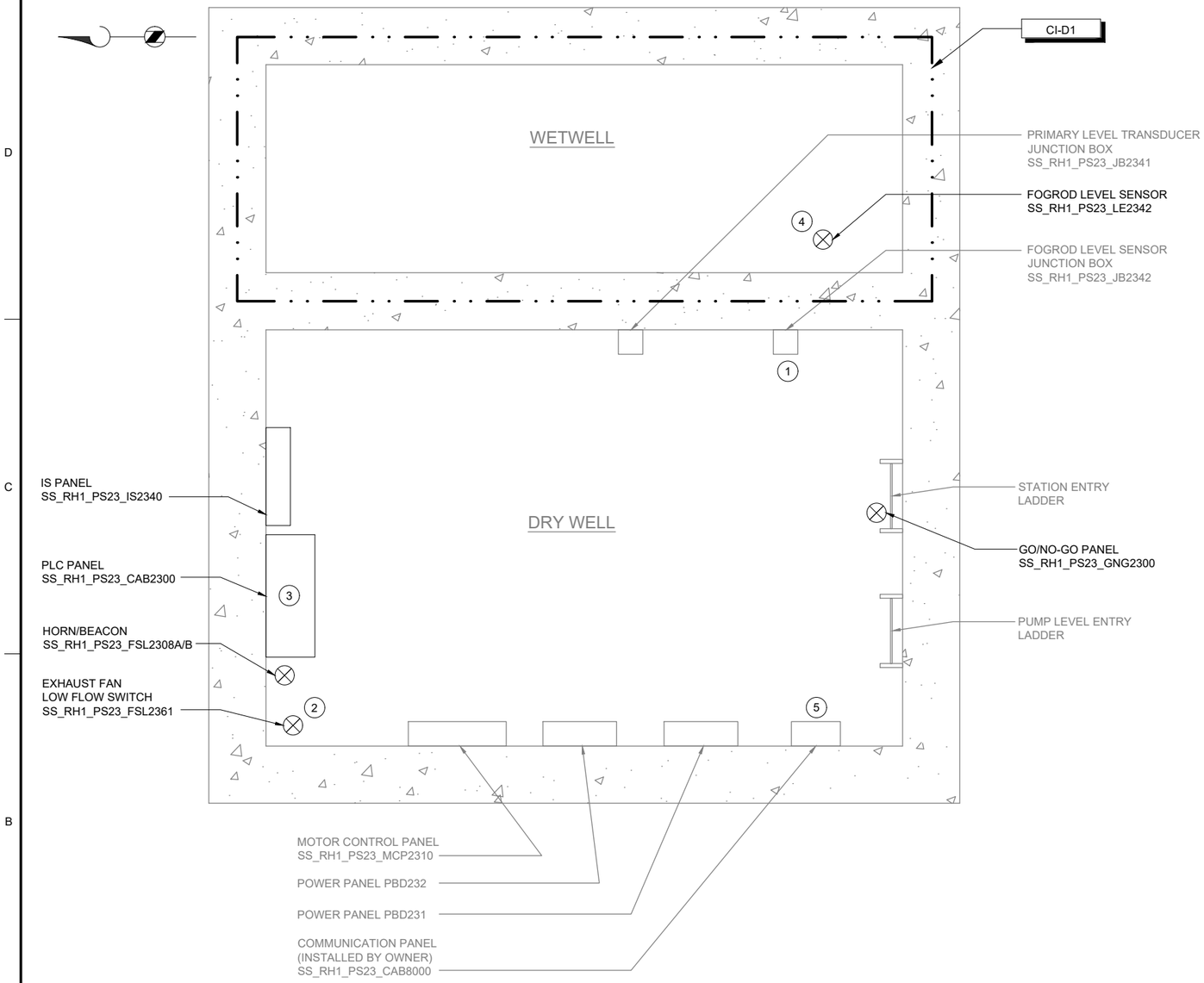
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: E04

SHEET NO.: 4 7



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-M317.2, SHEET 18 OF 32 FOR ELEVATIONS RELATED TO WIRING AND CONDUIT.
3. REFER TO CIRCUIT & RACEWAY SCHEDULE ON THIS DRAWING FOR NEW WIRING AND CONDUIT WITHIN THE PUMP STATION.

KEY NOTES:

1. REFER TO SECTION 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 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.

CIRCUIT & RACEWAY SCHEDULE

CIRCUIT	FUNCTION	WIRE SIZE & PHASE ASSIGNMENT	FROM	TO	RACEWAY SIZE	DESCRIPTION	LOCATION(S)
C-2301	CONTROL	14-#14	SS_RH1_PS23_CAB2300	SS_RH1_PS23_IS2340	3/4"	LEVEL SWITCHES, FAULT, PANEL MONITORING, SPARES	GRATING LEVEL
C-2302	CONTROL	6-#14	SS_RH1_PS23_IS2340	SS_RH1_PS23_MCP2310	3/4"	CALL PUMPS TO RUN	GRATING LEVEL
C-2303	CONTROL	2-#14	SS_RH1_PS23_CAB2300	SS_RH1_PS23_FSL2361	3/4"	EXHAUST FAN FLOW SWITCH	GRATING LEVEL
C-2304	CONTROL	4-#14, #14G	SS_RH1_PS23_CAB2300	SS_RH1_PS23_YA2308A/B	3/4"	HORN/RED BEACON FAN ALARM	GRATING LEVEL
P/C-2305	POWER/CONTROL	10-#14, #14G CORD	SS_RH1_PS23_CAB2300	SS_RH1_PS23_GNG2300	-	POWER AND CONTROL TO GNG PANEL	GRATING LEVEL TO STATION HATCH DOOR
P-2301	POWER	2#14, #14G	SS_RH1_PS23_CAB2300	SS_RH1_PS23_IS2340	3/4"	24VDC POWER TO IS PANEL MODULE	GRATING LEVEL
P-2302	POWER	2#12, #12G	PBD231	SS_RH1_PS23_IS2340	3/4"	120VAC POWER TO IS PANEL POWER SUPPLY	GRATING LEVEL
P-2304	POWER	2#14, #14G	SS_RH1_PS23_CAB2300	SS_RH1_PS23_FSL2361	3/4"	POWER TO THERMAL FLOW SWITCH	GRATING LEVEL
S-2301	SIGNAL	2 TSP	SS_RH1_PS23_CAB2300	SS_RH1_PS23_IS2340	3/4"	2 LIT READINGS	GRATING LEVEL
S-2302	SIGNAL	MFR CABLE	SS_RH1_PS23_JB2341	SS_RH1_PS23_IS2340	3/4"	PRIMARY WETWELL LEVEL. *NEW CONDUIT FROM JB TO IS PANEL	GRATING LEVEL
S-2303	SIGNAL	MFR CABLE	SS_RH1_PS23_LE2342	SS_RH1_PS23_IS2340	3/4"	SECONDARY WETWELL LEVEL. *NEW CONDUIT IN DRY WELL	GRATING LEVEL

Brown AND Caldwell
701 PIKE STREET
SUITE 1200
SEATTLE, WASHINGTON

BID SET

JAMES A. TUCKER STATE OF WASHINGTON 55756 REGISTERED PROFESSIONAL ENGINEER
Sep 16 2022 3:30 PM

CAITLIN ANN BLEENT STATE OF WASHINGTON 55655 REGISTERED PROFESSIONAL ENGINEER
Sep 19 2022 11:30 AM

CITY OF MERCER ISLAND PUBLIC WORKS

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-23701.DWG
BC PROJECT NUMBER 153585
CLIENT PROJECT NUMBER

INSTRUMENTATION

PUMP STATION 23 - PLAN

DRAWING NUMBER
I-23701

SHEET NUMBER
375 OF 424