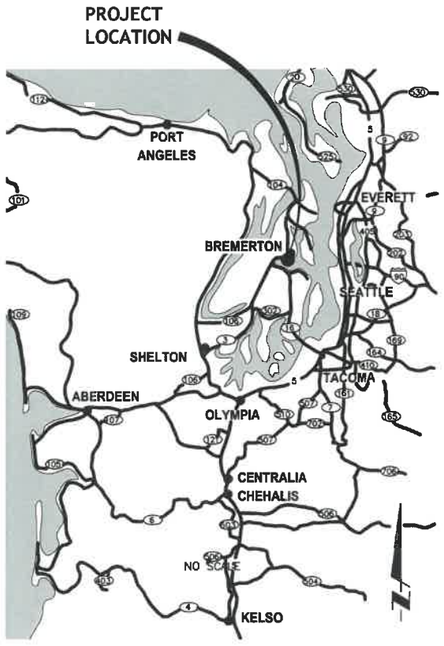
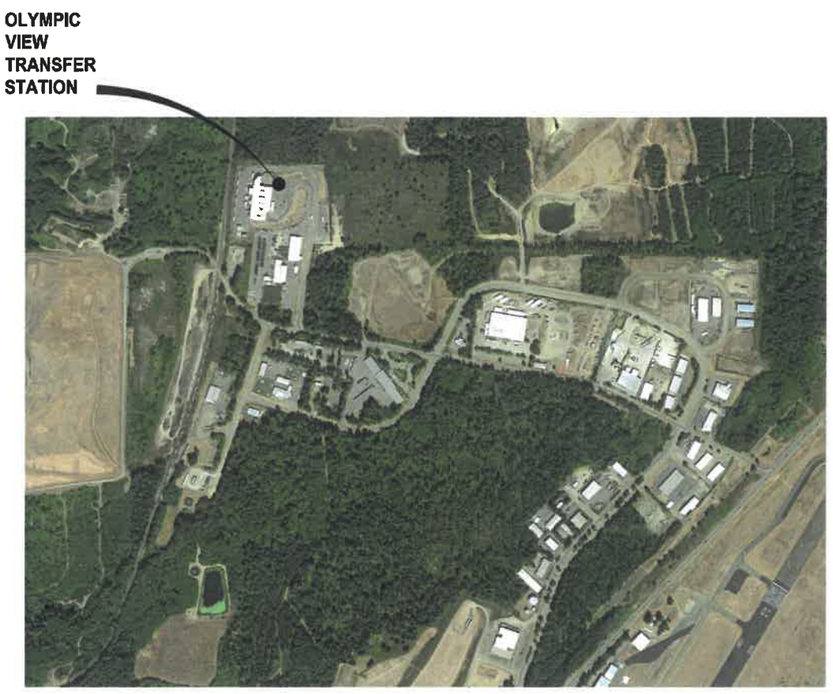
OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS

KITSAP COUNTY, WASHINGTON



VICINITY MAP



LOCATION MAP
NO SCALE

SHEET INDEX		
DWG NO.	SHT NO.	SHEET TITLE
GENERAL		
G1	1	TITLE SHEET, VICINITY AND LOCATION MAPS, SHEET INDEX
G2	2	GENERATOR PARTIAL SITE PLAN
STRUCTURAL		
S1	3	STRUCTURAL DETAILS
ELECTRICAL		
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E6	9	CONDUIT AND CABLE SCHEDULE
E7	10	POWER AND GROUNDING PLAN
E8	11	GENERATOR INTERCONNECT DIAGRAM

BOARD OF COMMISSIONERS:

EDWARD E. WOLFE
CHARLOTTE GARRIDO
ROBERT GELDER

DIRECTOR OF PUBLIC WORKS

ANDREW B. NELSON, P.E.

811 Know what's below. Call before you dig.

APPROVED FOR CONSTRUCTION

5-2-23
DATE

DAVID TUCKER, P.E.
ASSISTANT DIRECTOR, UTILITIES

ISSUED FOR BID

REVISIONS	DATE	BY

DESIGNED D. PETERSON
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS1578151-G1
JOB No. 553-1578-151
DATE DECEMBER 2021

MARK SUTTON — STATE OF WASHINGTON — 40578 — REGISTERED PROFESSIONAL ENGINEER
7/14/22

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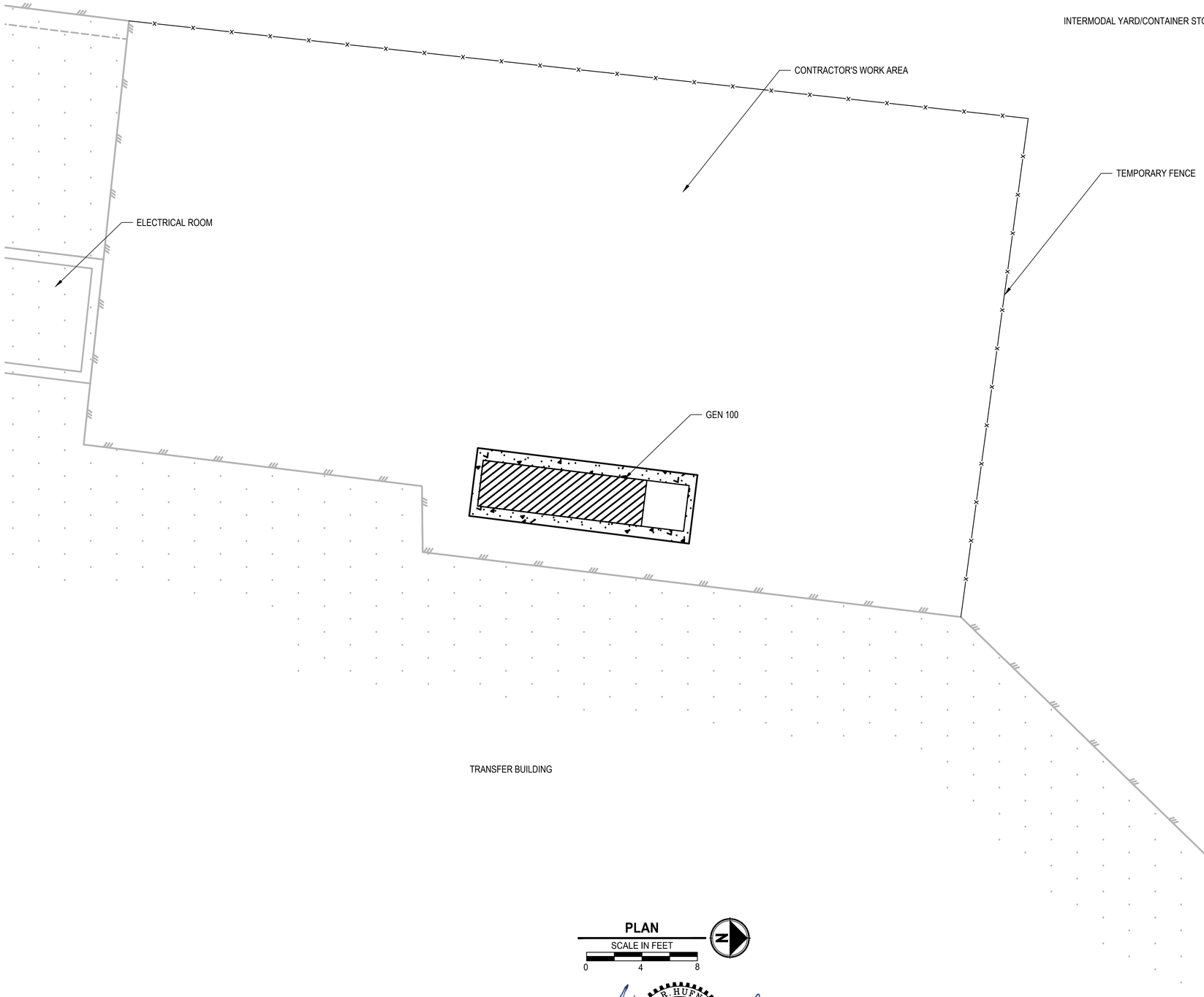
OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

TITLE SHEET, VICINITY AND LOCATION MAPS, SHEET INDEX

DRAWING NO.
1 OF 11
G1



NOTES:

1. DO NO BLOCK TRANSFER STATION OPERATIONS ACCESS OUTSIDE TEMPORARY FENCED WORK AREA.
2. COORDINATE WITH TRANSFER STATION OPERATOR FOR ACCESS TO CONTRACTORS WORK AREA.
3. PROVIDE TEMPORARY EROSION CONTROL MEASURES WITHIN AND ADJACENT TO CONTRACTOR'S WORK AREA TO PROTECT SURFACE WATER MANAGEMENT SYSTEM.
4. RESTORE PAVEMENT AND OTHER CONSTRUCTION DAMAGED BY CONTRACTOR'S CONSTRUCTION OPERATIONS. MATCH EXISTING MATERIALS, GRADES AND PAVEMENT SECTION. PROVIDE A MINIMUM 12-INCH CUT BACK OF EXISTING ASPHALT OVER UNDISTURBED SUBGRADE FOR TIE-IN TO EXISTING PAVEMENT.

PLAN

SCALE IN FEET

0 4 8

N

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED I. SUTTON
DRAWN D. PETERSON
CHECKED I. SUTTON
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS1578151-G2
JOB No. 553-1578-151
DATE MARCH 2023

KARL R. HUFNAGEL
STATE OF WASHINGTON
21835
REGISTERED
PROFESSIONAL ENGINEER

MARCH 1, 2023

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OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

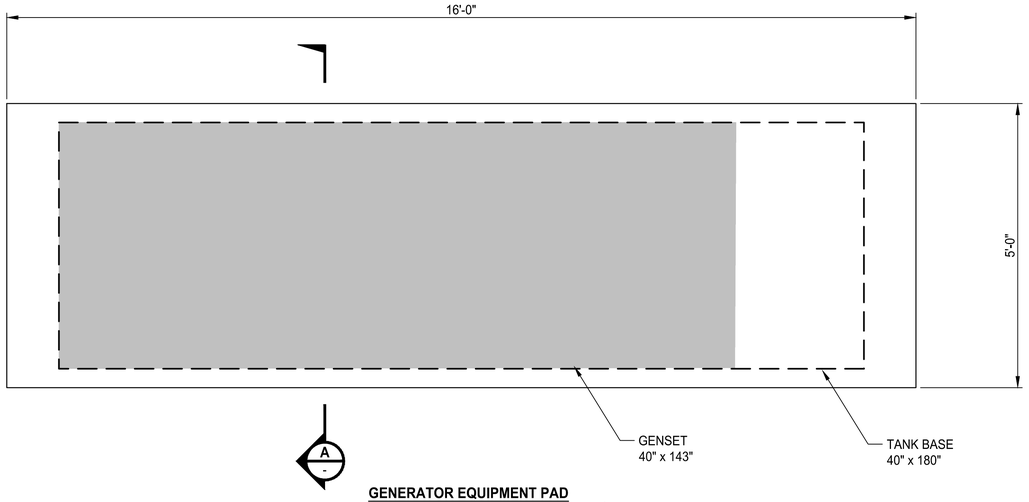
GENERATOR PARTIAL SITE PLAN

DRAWING NO. 2 OF 11

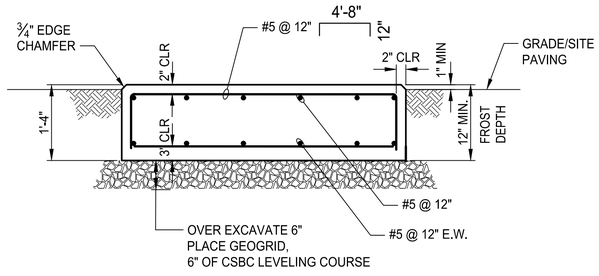
G2

NOTES

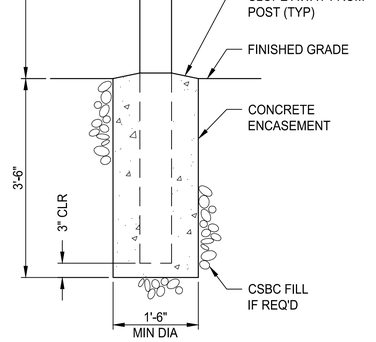
1. CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
2. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60.
3. ANCHOR TANK BASE WITH (10) $\frac{5}{8}$" EPOXY ANCHORS. MINIMUM EMBED 6". EPOXY ANCHOR SYSTEM SHALL HAVE ICC-ES APPROVALS FOR SEISMIC ANCHORS INTO CRACKED CONCRETE.



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



SECTION A
SCALE: 3/4" = 1'-0"



BOLLARD
DETAIL 1
SCALE: 3/4" = 1'-0" E7

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED S. WAGNER
DRAWN D. PETERSON
CHECKED I. SUTTON
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS1578151-S1
JOB No. 553-1578-151
DATE MARCH 2023

STEVEN A. WAGNER — STATE OF WASHINGTON — 18711 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
MARCH 1, 2023

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PROJECT NAME
OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

STRUCTURAL DETAILS

DRAWING NO. 3 OF 11
S1

PLAN SYMBOLS

CONDUIT SYMBOLS

- X-### — CONDUIT NUMBER P = POWER C = CONTROL J = SIGNAL X = SPARE
- 3/4"C-(3)#12 — CALLOUT INDICATING CONDUIT SIZE, NUMBER OF WIRES AND WIRE SIZE.
- X-### — CALLOUT INDICATING CONDUIT NUMBER AND WIRE PER SCHEDULE.
- EXPOSED CONDUIT
- CONCEALED CONDUIT
- FLEXIBLE CONDUIT
- CAP ON CONDUIT STUB
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT WITH SEAL FITTING
- UNDERGROUND DIRECT BURIAL CONDUITS
- INDICATES REMOVAL
- GROUND CONDUCTOR
- CONDUIT RUN, BROKEN AND CONTINUED SAME SHEET OR AS NOTED
- HOME RUN TO PANELBOARD OR AS INDICATED
- CABLE TRAY
- UNDERGROUND DUCT LINE (CONCRETE ENCASEMENT)
- J — JUNCTION BOXES, FLOOR, WALL AND CEILING
- HEAT TRACE

EQUIPMENT AND INSTRUMENT SYMBOLS

- XXX-### — EQUIPMENT ID #
- G / xxKW — GENERATOR xxKW = SIZE
- xx — MOTOR xx = HORSEPOWER
- EQUIPMENT CONNECTION
- INSTRUMENT LOCATION
- T — THERMOSTAT
- xxA — DISCONNECT SWITCH, UNFUSED xxA = AMPERAGE
- xxAF / xxAT F — DISCONNECT SWITCH, FUSED xxAF = FRAME SIZE xxAT = TRIP SIZE
- xxAF / xxAT CB — ENCLOSED CIRCUIT BREAKER xxAF = FRAME SIZE xxAT = TRIP SIZE
- MH — MANHOLE
- HH — HANDHOLE
- GROUND ROD
- GROUND ROD AND BOX
- WALL-MOUNTED CONTROL PANEL, PANELBOARD, OR TERMINAL CABINET. SHOWN WITH EQUIPMENT ID TAG. — PNL-100
- FLOOR-STANDING DISTRIBUTION ASSEMBLY, SUCH AS MCC, SWITCHBOARD, OR XFMR. SHOWN WITH EQUIPMENT ID TAG. — MCC-100

ALARM SYMBOLS

- FACP — FIRE ALARM CONTROL PANEL
- SH — COMBINATION SMOKE/HEAT DETECTOR
- ALARM HORN
- F — MANUAL PULL STATION
- X — X INDICATS COLOR: A = AMBER STROBE LIGHT; B = BLUE STROBE LIGHT; G = STEADY GREEN LIGHT; R = RED STROBE LIGHT

RECEPTACLE AND SWITCH SYMBOLS

- CKT / TYPE — DUPLEX WALL RECEPTACLE, 120V CKT = CIRCUIT NUMBER TYPE: WP = WEATHERPROOF; G = GROUNDED; IG = ISOLATED GROUND; GF = GROUND FAULT INTERRUPTER
- DUPLEX RECEPTACLE, EMERGENCY/ STAND-BY
- SINGLE RECEPTACLE, 120V
- SINGLE RECEPTACLE, EMERGENCY/ STAND-BY
- DOUBLE DUPLEX RECEPTACLE, 120V
- DOUBLE DUPLEX RECEPTACLE, EMERGENCY/STAND-BY
- DUPLEX FLOOR RECEPTACLE, 120V TYPE: F = FLUSH; S = SURFACE
- X IN. — MULTI-OUTLET ASSEMBLY WITH SINGLE RECEPTACLE, 120V SPACING (X IN.) AS NOTED. MOUNTING HEIGHT AS NOTED.
- SPECIAL PURPOSE WALL RECEPTACLE, RATING AS NOTED.
- $ (a,b) — SINGLE POLE SWITCH (SEE NOTE S1) * = SINGLE POLE; 2 = 2 POLE; 3 = 3 WAY; 4 = 4 WAY; M = HP RATED, LOCKABLE; OS = OCCUPANCY SENSOR; P = SWITCH WITH PILOT LIGHT; WP = WEATHERPROOF

NOTES:

S1 LOWER CASE LETTERS IN PARENTHESIS ADJACENT TO A SWITCH OR LIGHT FIXTURE INDICATE A SWITCHED CIRCUIT AND IDENTIFY THE FIXTURE/SWITCH COMBINATIONS. FOR FOUR LAMP FLUORESCENT FIXTURES WIRED IN PAIRS WITHIN EACH FIXTURE, THE "a" SWITCH CONTROLS THE OUTER LAMPS AND THE "b" SWITCH CONTROLS THE INNER LAMPS. WIRE 3 LAMP FIXTURES SIMILARLY.

S2 NUMBERS IN PARENTHESIS ADJACENT TO A LIGHT FIXTURE OR RECEPTACLE INDICATE THE LIGHTING PANEL BRANCH CIRCUIT FEEDING THE DEVICE.

LIGHTING SYMBOLS

- ID / NL / (a) / (LPXX/X) — LUMINAIRE WITH IDENTIFICATION TAG ID = TYPE, PER LIGHTING SCHEDULE; NL = UNSWITCHED NIGHT LIGHT; a = SWITCH CONTROL LPXX/X = POWER SOURCE PANEL AND CIRCUIT NUMBER
- SURFACE MOUNTED FIXTURE
- WALL MOUNTED FIXTURE
- POLE MOUNTED FIXTURE
- WALL/CEILING MOUNTED EXIT LIGHT - DIRECTIONAL ARROW WHERE INDICATED, SHADED AREA INDICATES ILLUMINATED FACE.
- PE — PHOTO ELECTRIC CELL
- EMERGENCY LIGHT WITH SELF-CONTAINED BATTERY

UTILITIES SYMBOLS

- M — ELECTRICITY UTILITY METER AND SOCKET
- PLYWOOD BACKBOARD

ONE-LINE SYMBOLS

- XXX-### — EQUIPMENT ID #
- X-### — CONDUIT NUMBER P = POWER C = CONTROL J = SIGNAL X = SPARE
- G / xxKW — GENERATOR xxKW = SIZE
- xx — MOTOR xx = HORSEPOWER
- xxAF / xxAT — POWER CIRCUIT BREAKER, 3 POLE, ABOVE 1500V. xxAF = FRAME SIZE xxAT = TRIP RATING
- WITH DRAWOUT / NO DRAWOUT
- xxAF / xxAT — CIRCUIT BREAKER, 3-POLE UNLESS OTHERWISE NOTED. xxAF = FRAME SIZE xxAT = TRIP RATING
- WITH DRAWOUT / NO DRAWOUT
- xxKVA / xxV - yyV — POWER OR DISTRIBUTION TRANSFORMER, 3 PHASE UNLESS OTHERWISE NOTED. xxKVA = SIZE; xxV = PRIMARY VOLTAGE; yyV = SECONDARY VOLTAGE
- ATS / xxAF — TRANSFER SWITCH, ATS OR MTS AS INDICATED. 3 POLE UNLESS OTHERWISE NOTED. xxAF = RATING
- MOTOR STARTER WITH THERMAL OVERLOAD. 3 PHASE UNLESS OTHERWISE NOTED. * = NEMA SIZE
- VFD ### — VARIABLE FREQUENCY DRIVE. 3 PHASE UNLESS OTHERWISE NOTED. ### = TAG ID NUMBER
- SS ### — ELECTRONIC SOFT STARTER WITH BYPASS. 3 PHASE UNLESS OTHERWISE NOTED. ### = TAG ID NUMBER
- LINE OR LOAD REACTOR
- K — KIRK KEY INTERLOCK
- ST — SHUNT TRIP
- FUSE
- CURRENT TRANSFORMER
- VOLTAGE TRANSFORMER
- SURGE ARRESTOR
- X — SENSOR. X INDICATES DEVICE TYPE: A = AMMETER; AS = CURRENT SWITCH; V = VOLTMETER; VS = VOLT SWITCH; WH = WATTHOUR METER
- POWER RECEPTACLE
- CAPACITOR
- VACUUM BREAK SWITCH
- TERMINATOR / POTHEAD
- ELEMENTARY DIAGRAM REFERENCE X = DIAGRAM NUMBER
- GROUND CONNECTION

SCHEMATIC SYMBOLS

- TAG / xxAF — DISCONNECT SWITCH, 3-POLE. TAG = DEVICE TAG ID xxAF = SWITCH RATING, IN AMPERES
- TAG / xxA — CIRCUIT BREAKER, 3-POLE. TAG = DEVICE TAG ID xxA = TRIP RATING, IN AMPERES
- M / OL — MOTOR STARTER WITH THERMAL OVERLOAD, 3-POLE.
- M — MOTOR, 3-PHASE. VOLTAGE AND HORSEPOWER AS INDICATED.
- M — MOTOR, SINGLE PHASE. VOLTAGE AND HORSEPOWER AS INDICATED.
- BUS STAB ON MCC OR SWITCHGEAR OR MOTOR CORD AND PLUG CONNECTION
- CPT / xxxVA / xxV-yyV — CONTROL POWER TRANSFORMER xxxVA = SIZE; xxV = PRIMARY VOLTAGE; yyV = SECONDARY VOLTAGE
- TAG / xxA — CIRCUIT BREAKER, SINGLE-POLE TAG = DEVICE TAG ID xxA = TRIP RATING, IN AMPERES
- TAG / xxA — FUSE TAG = DEVICE TAG ID xxA = FUSE RATING, IN AMPERES
- PUMP 1 — SELECTOR SWITCH ASSEMBLY, 3-POSITION TYPICAL CONFIGURATIONS: H O A = HAND/OFF/AUTO; L O R = LOCAL/OFF/REMOTE
- START / STOP — PUSHBUTTON, NORMALLY OPEN AND NORMALLY CLOSED
- XXX ### — CONTROL DEVICE COIL XXX INDICATES TYPE: ALT = ALTERNATING RELAY; CR = CONTROL RELAY; LR = LATCHING RELAY; TR/TDR = TIMING RELAY/TIME DELAY RELAY; M = MOTOR STARTER CONTACTOR ### = DEVICE ID NUMBER
- X — INDICATING LIGHT X INDICATES COLOR: A = AMBER; B = BLUE; C = CLEAR; G = GREEN; R = RED; W = WHITE; Y = YELLOW
- X — INDICATING LIGHT, PUSH-TO-TEST

STANDARD RELAY CONTACTS

- ### / ### — CONTACT, NORMALLY OPEN AND NORMALLY CLOSED. ### = DEVICE ID NUMBER

TIME-DELAY RELAY CONTACTS

- ### — NORMALLY OPEN, CLOSES AFTER TIME DELAY. ### = DEVICE ID NUMBER
- NORMALLY CLOSED, OPENS AFTER TIME DELAY.
- NORMALLY OPEN, INSTANTANEOUS CLOSE, OPENS AFTER TIME DELAY.
- NORMALLY CLOSED, INSTANTANEOUS OPEN, CLOSES AFTER TIME DELAY.

SENSING DEVICE CONTACTS

CLOSES RISING	CLOSES FALLING	DEVICE TYPE
		FLOW SWITCH
		LEVEL/FLOAT SWITCH
		PRESSURE SWITCH
		TEMPERATURE SWITCH

LIMIT SWITCH CONTACTS

- NORMALLY OPEN, CLOSES ON REACHING LIMIT
- NORMALLY CLOSED, OPENS ON REACHING LIMIT

WIRE AND CABLE SYMBOLS

- WIRING INSIDE ENCLOSURE
- FIELD WIRING
- CONDUCTORS CONNECTED
- CONDUCTORS NOT CONNECTED
- SPLICE OR TERMINATION

TERMINAL SYMBOLS

- MAIN CONTROL PANEL
- LOCAL CONTROL PANEL
- FIELD TERMINAL
- FIELD PANEL
- POWER JUNCTION BOX
- VFD
- MCC OR SWITCHGEAR
- PLC I/O TERMINAL
- CONTROL CABLE JUNCTION BOX
- MOTOR LOAD CABLE JUNCTION BOX OR DISCONNECT

MISCELLANEOUS DEVICES

- ETM — ELAPSED TIME METER / HOURMETER
- SOLENOID
- H — HORN
- B — BELL
- BUZZER

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
A/D	ANALOG TO DIGITAL
ADJ	ADJUSTABLE
AF	AMPERE FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AMP	AMPERES
ANN	ANNUNICATOR
AS	AMMETER SWITCH
AT	AMMETER TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BCG	BARE COPPER GROUND
C	CONDUIT
CAB	CABINET
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CC	CONTROL CABLE, CLOSING COIL, CLARIFIER CONSOLE
CHH	COMMUNICATION HANDHOLE
CJB	CALIBRATION JUNCTION BOX
CKT	CIRCUIT
CMH	COMMUNICATION MANHOLE
CO	CONDUIT ONLY
COMM	COMMUNICATION
COND	CONDUCTOR
CPT	CONTROL POWER TRANSFORMER
CP	CONTROL PANEL
CR	CONTROL RELAY
CS	CONTROL STATION
CT	CURRENT TRANSFORMER
DB	DIRECT BURIAL
DC	DIRECT CURRENT
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DIV	DIVISION
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
(E)	EXISTING
EE	ELECTRICAL ENCLOSURE
EHH	ELECTRICAL HANDHOLE
ELEM	ELEMENTARY
EMERG	EMERGENCY
ENCL	ENCLOSURE
EFFL	EFFLUENT
EGC	EQUIPMENT GROUND CONDUCTOR
EQPT	EQUIPMENT
ETM	ELAPSED TIME METER
FDR	FEEDER
FE	FLOW ELEMENT
FIT	FLOW INDICATION TRANSMITTER
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
F.O.	FIBER OPTIC
FREQ	FREQUENCY
FSH	FLOAT SWITCH HIGH
FSO	FLOAT SWITCH OVERFLOW
FU	FUSE
FUT.(F)	FUTURE
FVNR	FULL VOLTAGE, NON- REVERSING
FVR	FULL VOLTAGE, REVERSING
FWD	FORWARD
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
H	HYDROGEN PEROXIDE
HH	HANDHOLE
HOA	HAND-OFF- AUTOMATIC
HOR	HAND-OFF-REMOTE
HPS	HIGH PRESSURE SODIUM
HT	HEAT TAPE
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES PER SECOND)
IND LT	INDICATING LIGHT
INCAND	INCANDESCENT
INSTR	INSTRUMENT, INSTRUMENTATION
I/O	INPUT/OUTPUT
ISB	INTRINSICALLY SAFE BARRIER
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
KA	KILOAMPERES
KCMIL	THOUSANDS OF CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KWH	KILOWATT HOURS
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LTG	LIGHTING
LTS	LIGHTS
LP	LIGHTING PANEL
(M)	MODIFIED
mA	MILLIAMPERES
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION OR MAIN CONTROL PANEL
MCM	THOUSAND CIRCULAR MILS (KCMIL)
MON	MONITOR
MOV	MOTOR OPERATED VALVE
MS	MOTOR STARTER
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
(N)	NEW
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NEUT	NEUTRAL
NO	NORMALLY OPEN, NUMBER
OCP	OZONE CONTROL PANEL
OL	OVERLOAD
OT	OVER TEMPERATURE
OVLD	THERMAL OVERLOAD RELAY
OIT	OPERATOR INTERFACE TERMINAL
P	POLE, PUMP
PB	PULLBOX
PBSW	PUSHBUTTON SWITCH
PEC	PHOTOELECTRIC CELL
PF	POWER FACTOR
PGRS	PVC COATED GALVANIZED RIGID STEEL
pH	MEASURE OF ACIDITY OR ALKALINITY
PH	PHASE
PIOP	PLC I/O PANEL
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PNLBD	PANELBOARD
POSN	POSITION
POT	POTENTIOMETER
PPS	PACKAGED POWER SUPPLY
PRI	PRIMARY
PWR	POWER
(R)	RELOCATED
RCPT	RECEPTACLE
RCT	REPEAT CYCLE TIMER
RT	RESET TIMER
SCCR	SHORT CIRCUIT CURRENT RATING
SCHD80	SCHEDULE 80 PVC
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SIG	SIGNAL
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SST	STAINLESS STEEL
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYNC	SYNCHRONIZING
TB	TERMINAL BOX
TC	TELEPHONE CABINET
TEL	TELEPHONE
TERM	TERMINAL
TO	TIMED OPENING
TOA	TEST-OFF- AUTOMATIC
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
UGND	UNDERGROUND
UV	ULTRAVIOLET
VA	VOLT-AMPERES
VAR	VOLT AMPERES REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VH	VAR-HOUR
VS	VOLTMETER SWITCH
W	WIRE, WATTS
WH	WATTHOUR METER
WHDM	WATTHOUR DEMAND METER
WP	WEATHERPROOF
WR	WEATHER RESISTANT
WT	WATERTIGHT
WWR	WASHWATER RECOVERY
XFMR	TRANSFORMER

GENERAL NOTES

G1 THE INSTALLATION OF ALL EQUIPMENT SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY COMPANY STANDARDS. CONTACT THE UTILITY COMPANY REPRESENTATIVES AND VERIFY THEIR REQUIREMENTS.

G2 THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.

G3 NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON.

G4 INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. SEE ALSO ANSI C37.2, Y1.1, Y32.2, AND Y32.9.

G5 REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND FOR CERTAIN CONNECTIONS TO BE MADE TO ELECTRICAL CIRCUITS.

G6 EQUIPMENT SHOWN IN HALF TONE OR GREY TONE ARE EXISTING OR BY OTHERS.

G7 VERIFY ALL COLOR REQUIREMENTS BEFORE ORDERING MATERIALS.

G8 CONDUIT SIZE AND FILL SHALL BE AS INDICATED. WHERE NO SIZE IS SHOWN, THE CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE EDITION OF THE NATIONAL ELECTRIC CODE ADOPTED BY THE AUTHORITY HAVING CODE ENFORCEMENT JURISDICTION. WHERE NO FILL IS INDICATED, PROVIDE (3) #12 WIRES. PROVIDE 3/16 INCH NYLON PULL ROPE IN EACH EMPTY CONDUIT.

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS1578151–E1
JOB No. 553–1578–151
DATE MARCH 2023

MARTIN C. CASANOVA — STATE OF WASHINGTON — 48989 — REGISTERED PROFESSIONAL ENGINEER

MARCH 1, 2023

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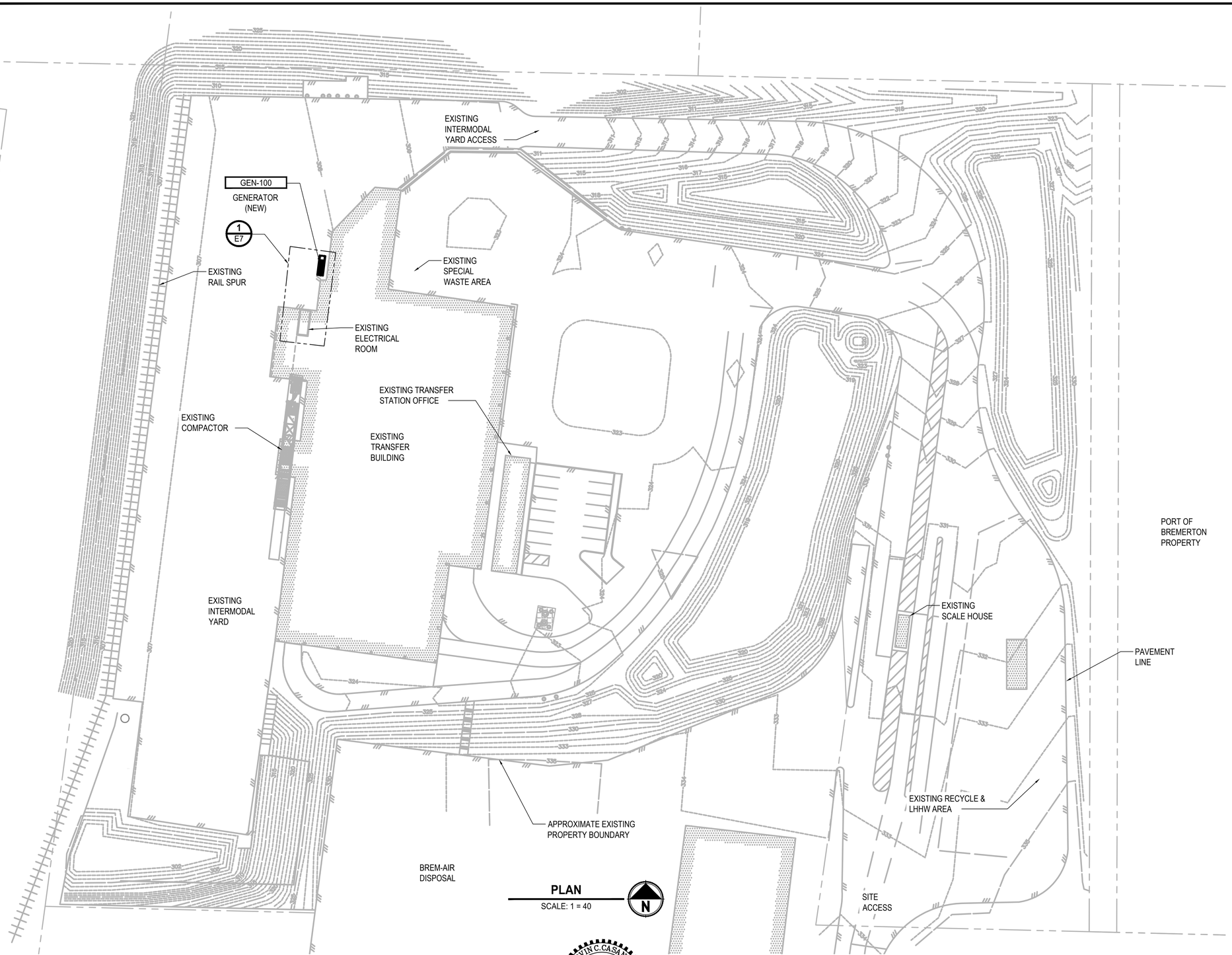
PROJECT NAME
OLYMPIC VIEW TRANSFER STATION ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

ELECTRICAL LEGEND AND ABBREVIATIONS

DRAWING NO. 4 OF 11
E1

PATH: U:\PSO\Projects\Clients\1578-KitsapCo\553-1578-151 OVTS FMP\99Svcs\CADD\DWG
LAYOUT: E1
PLOTTED BY: peterden DATE: Tuesday, February 28, 2023 7:59:28 AM



PLAN

SCALE: 1 = 40

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME PS1578151-E2
JOB No. 553-1578-151
DATE MARCH 2023

MARK IN C. CASANOVA
STATE OF WASHINGTON
46989
REGISTERED
PROFESSIONAL ENGINEER

MARCH 1, 2023

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PROJECT NAME

OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

ELECTRICAL OVERALL SITE PLAN

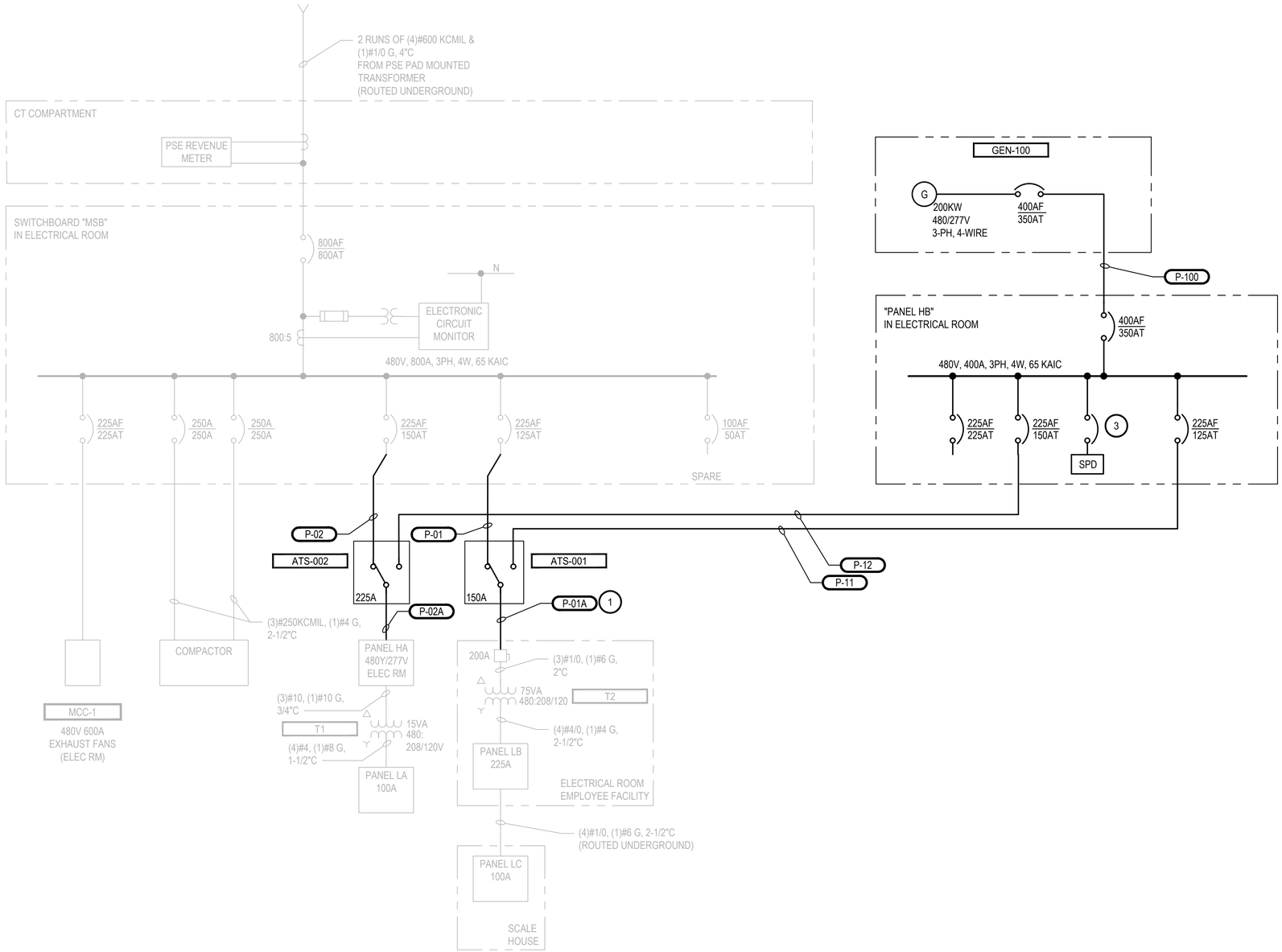
DRAWING NO. 5 OF 11

E2

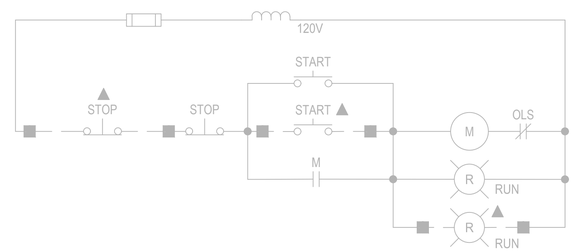
PATH: U:\PSO\Projects\Clients\1578-KitsapCo\553-1578-151 OVTS FMP\99Svcs\CADD\DWG PLOTTED BY: peterden DATE: Tuesday, February 28, 2023 8:00:19 AM
LAYOUT: E2

NOTES

1. ROUTE NEW CONDUCTORS BETWEEN ATS-001 AND T2 PRIMARY DISCONNECT SWITCH THROUGH EXISTING UNDERGROUND CONDUIT VIA EXISTING MAIN SWITCHBOARD.
2. SEE GENERATOR INTERCONNECT DIAGRAM ON DWG E8 FOR ADDITIONAL INFORMATION.
3. SPD CIRCUIT BREAKER SIZE DETERMINED BY PANELBOARD SUPPLIER.



ONE-LINE DIAGRAM



TYPICAL EXHAUST FAN (REF) CONTROL SCHEMATIC

▲ INDICATES DEVICE LOCATED IN EXHAUST FAN CONTROL PANEL.

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS1578151-E3
JOB No. 553-1578-151
DATE MARCH 2023

MARVIN C. CASANOVA — STATE OF WASHINGTON — 48989 — REGISTERED PROFESSIONAL ENGINEER

MARCH 1, 2023

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PROJECT NAME
OLYMPIC VIEW TRANSFER STATION ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

ELECTRICAL ONE-LINE DIAGRAM AND SCHEMATICS

DRAWING NO. 6 OF 11

E3

PANELBOARD SCHEDULE

v 4.0

NAME: PANEL HA

VOLTAGE RATING: **480Y/277 VOLTS, 3 PHASE, 4 WIRE**
BUS RATING: **225** AMPS
MAIN BREAKER: **150** AMPS
FEED: **TOP**
MOUNTING: **SURFACE**
SPECIAL FEATURES:

LOCATION: **ELECTRICAL ROOM**
FED FROM: **ATS-002**
NOTES:

LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1 L2 L3	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE
M	AIR COMPRESSOR	1,800	1	20 / 3	-A-	20 / 1	2	3,700	LIGHTING, TRANSFER BUILDING	L
M	AIR COMPRESSOR	1,800	3	20 / 3	-B-	20 / 1	4	3,700	LIGHTING, TRANSFER BUILDING	L
M	AIR COMPRESSOR	1,800	5	20 / 3	-C-	20 / 1	6	3,700	LIGHTING, TRANSFER BUILDING	L
	SPARE		7	20 / 3	-A-	20 / 1	8	3,700	LIGHTING, TRANSFER BUILDING	L
	SPARE		9	20 / 3	-B-	20 / 1	10	3,700	LIGHTING, TRANSFER BUILDING	L
	SPARE		11	20 / 3	-C-	20 / 1	12	3,700	LIGHTING, TRANSFER BUILDING	L
	SPARE		13	20 / 3	-A-	20 / 1	14	3,700	LIGHTING, TRANSFER BUILDING	L
	SPARE		15	20 / 3	-B-	20 / 1	16	3,300	LIGHTING, TRANSFER BUILDING	L
	SPARE		17	20 / 3	-C-	20 / 1	18	500	LIGHTING - TRUCK DRIVE THRU	L
LM	SUMP PUMP SP-1	4,200	19	30 / 3	-A-	20 / 1	20	3,600	LIGHTING - EXT. FLOOD LTG.	L
LM	SUMP PUMP SP-1	4,200	21	30 / 3	-B-	20 / 1	22	400	LIGHTING -EXTERIOR (DOORS)	L
LM	SUMP PUMP SP-1	4,200	23	30 / 3	-C-	20 / 1	24	500	LIGHTING - TRUCK DRIVE THRU	L
	SPARE		25	20 / 3	-A-	30 / 3	26	4,000	MOTORIZED DOORS (3 @ 3 HP)	M
	SPARE		27	20 / 3	-B-	30 / 3	28	4,000	MOTORIZED DOORS (3 @ 3 HP)	M
	SPARE		29	20 / 3	-C-	30 / 3	30	4,000	MOTORIZED DOORS (3 @ 3 HP)	M
	SPARE		31	20 / 1	-A-	100 / 3	32	**2,120**	**PANEL LA VIA TRANSFORMER T-1**	**X**
	SPARE		33	20 / 1	-B-	100 / 3	34	**4,640**	**PANEL LA VIA TRANSFORMER T-1**	**X**
L	TRANSFER BUILDING LIGHTING	2,000	35	20 / 1	-C-	100 / 3	36	**3,940**	**PANEL LA VIA TRANSFORMER T-1**	**X**
L	TRANSFER BUILDING LIGHTING	1,400	37	20 / 1	-A-	20 / 3	38	1,200	MOTORIZED DOORS (2 @ 3/4 HP)	M
L	TRANSFER BUILDING LIGHTING	1,900	39	20 / 1	-B-	20 / 3	40	1,200	MOTORIZED DOORS (2 @ 3/4 HP)	M
L	TRANSFER BUILDING LIGHTING	2,300	41	20 / 1	-C-	20 / 3	42	1,200	MOTORIZED DOORS (2 @ 3/4 HP)	M
	LINE LOADS:	**29,420 VA(L1)**				**28,840 VA(L2)**		**27,840 VA(L3)**		
	TOTAL LOAD:	**86.10 KVA**				**103.6 AMPS**				

PANEL HA LOAD CALCULATION:

		CONNECTED VA	METHOD	NEC DEMAND	CALC. VA
TOTAL LIGHTING (L) LOAD:	L	41800	ALL @	125%	52250
TOTAL RECEPTACLE (R) LOAD:	R	0	FIRST 10KVA @	125%	0
			REMAINDER OVER 10KVA	50%	0
TOTAL MOTOR (M) LOAD:	M	21000	ALL @	100%	21000
	LM	12600	125% OF LARGEST	125%	15750
TOTAL HVAC (H) LOAD:	H	0	ALL @	125%	0
TOTAL MISCELLANEOUS (X) LOAD:	X	10700	ALL @	125%	13375
TOTAL VA:		86100 VA			102375 VA
AVERAGE AMPS @		104 AMPS			123 AMPS
VOLTAGE PHASE TO PHASE=	480				

PANELBOARD SCHEDULE

v 4.0

NAME: PANEL LB

VOLTAGE RATING: **208/120 VOLTS, 3 PHASE, 4 WIRE**
BUS RATING: **225** AMPS
MAIN BREAKER: **225** AMPS
FEED: **?**
MOUNTING: **?**
SPECIAL FEATURES:

LOCATION: **ELECTRICAL CLOSET**
FED FROM: **TRANSFORMER T2**
NOTES:

LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1 L2 L3	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE
H	HP-1	700	1	15 / 2	-A-	100 / 3	2	6,120	PANEL "LC"	X
H	HP-1	700	3	15 / 2	-B-	100 / 3	4	6,820	PANEL "LC"	X
H	CU-1	2000	5	40 / 2	-C-	100 / 3	6	4,050	PANEL "LC"	X
H	CU-1	2000	7	40 / 2	-A-	70 / 3	8	630	SEWAGE LIFT STATION	LM
R	RECEPTACLE - TELE	200	9	20 / 1	-B-	70 / 3	10	630	SEWAGE LIFT STATION	LM
L	LIGHTING - OFFICE BLDG. EXT.	240	11	20 / 1	-C-	70 / 3	12	630	SEWAGE LIFT STATION	LM
X	HWH-1	2700	13	30 / 3	-A-	20 / 1	14	200	RECEPTACLE - VENDING	R
X	HWH-1	2700	15	30 / 3	-B-	20 / 1	16	200	RECEPTACLE - VENDING	R
X	HWH-1	2700	17	30 / 3	-C-	20 / 1	18	200	RECEPTACLE - BREAK ROOM	R
H	EF-1	700	19	20 / 1	-A-	20 / 1	20	600	RECEPTACLE - BREAK ROOM	R
X	CP-1	300	21	20 / 1	-B-	20 / 1	22	1,200	LIGHTING	L
H	BH-1	1250	23	20 / 1	-C-	20 / 1	24	560	LIGHTING	L
H	BH-2	1250	25	20 / 1	-A-	20 / 1	26	200	RECEPTACLES	R
H	BH-3	1250	27	20 / 1	-B-	20 / 1	28	1,000	RECEPTACLES	R
H	BH-4	1250	29	20 / 1	-C-	20 / 1	30	600	RECEPTACLES	R
H	BH-5	1250	31	20 / 1	-A-	20 / 1	32	600	RECEPTACLES	R
H	BH-10	750	33	20 / 1	-B-	20 / 1	34	400	RECEPTACLES	R
H	BH-11	750	35	20 / 1	-C-	20 / 1	36	400	RECEPTACLES	R
H	WH-1	1100	37	20 / 1	-A-	20 / 1	38	400	RECEPTACLES	R
R	RECEPTACLES	1000	39	20 / 1	-B-	20 / 1	40	400	RECEPTACLES	R
X	FIRE ALARM	1000	41	20 / 1	-C-	20 / 1	42	400	RECEPTACLES	R
	LINE LOADS:	**18,450 VA(L1)**				**17,550 VA(L2)**		**16,030 VA(L3)**		
	TOTAL LOAD:	**52.03 KVA**				**144.4 AMPS**				

PANEL LB LOAD CALCULATION:

		CONNECTED VA	METHOD	NEC DEMAND	CALC. VA
TOTAL LIGHTING (L) LOAD:	L	2000	ALL @	125%	2500
TOTAL RECEPTACLE (R) LOAD:	R	6800	FIRST 10KVA @	125%	8500
			REMAINDER OVER 10KVA	50%	0
TOTAL MOTOR (M) LOAD:	M	0	ALL @	100%	0
	LM	1890	125% OF LARGEST	125%	2363
TOTAL HVAC (H) LOAD:	H	14950	ALL @	125%	18688
TOTAL MISCELLANEOUS (X) LOAD:	X	26390	ALL @	125%	32988
TOTAL VA:		52030 VA			65038 VA
AVERAGE AMPS @		144 AMPS			181 AMPS
VOLTAGE PHASE TO PHASE=	208				

PANELBOARD SCHEDULE

v 4.0

NAME: PANEL HB

VOLTAGE RATING: **480Y/277 VOLTS, 3 PHASE, 4 WIRE**
BUS RATING: **400** AMPS
MAIN BREAKER: **400** AMPS
FEED: **TOP**
MOUNTING: **SURFACE**
SPECIAL FEATURES:

LOCATION: **ELECTRICAL ROOM**
FED FROM: **GENERATOR GEN-100**
NOTES:

LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1 L2 L3	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE
X	ATS-100	34,125	1	225 / 3	-A-	225 / 3	2	21,679	ATS-200	X
X	ATS-100	34,125	3	225 / 3	-B-	225 / 3	4	21,679	ATS-200	X
X	ATS-100	34,125	5	225 / 3	-C-	225 / 3	6	21,679	ATS-200	X
X	SPARE		7	225 / 3	-A-	* / 3	8	*	SURGE PROTECTIVE DEVICE	
X	SPARE		9	225 / 3	-B-	* / 3	10	*	SURGE PROTECTIVE DEVICE	
X	SPARE		11	225 / 3	-C-	* / 3	12	*	SURGE PROTECTIVE DEVICE	
	SPACE			/	-A-	/	14		SPACE	
	SPACE			/	-B-	/	16		SPACE	
	SPACE			/	-C-	/	18		SPACE	
	LINE LOADS:	**55,804 VA(L1)**				**55,804 VA(L2)**		**55,804 VA(L3)**		
	TOTAL LOAD:	**167.41 KVA**				**201.4 AMPS**				

PANEL HB LOAD CALCULATION:

		CONNECTED VA	METHOD	NEC DEMAND	CALC. VA
TOTAL LIGHTING (L) LOAD:	L	0	ALL @	125%	0
TOTAL RECEPTACLE (R) LOAD:	R	0	FIRST 10KVA @	125%	0
			REMAINDER OVER 10KVA	50%	0
TOTAL MOTOR (M) LOAD:	M	0	ALL @	100%	0
	LM	0	125% OF LARGEST	125%	0
TOTAL HVAC (H) LOAD:	H	0	ALL @	125%	0
TOTAL MISCELLANEOUS (X) LOAD:	X	167412	ALL @	125%	209265
TOTAL VA:		167412 VA			209265 VA
AVERAGE AMPS @		201 AMPS			252 AMPS
VOLTAGE PHASE TO PHASE=	480				

PANELBOARD SCHEDULE

v 4.0

NAME: PANEL LA

VOLTAGE RATING: **208/120 VOLTS, 3 PHASE, 4 WIRE**
BUS RATING: **100** AMPS
MAIN BREAKER: **100** AMPS
FEED: **BOTTOM**
MOUNTING: **SURFACE**
SPECIAL FEATURES:

LOCATION: **ELECTRICAL ROOM**
FED FROM: **TRANSFORMER T-1**
NOTES:

LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1 L2 L3	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE
L	LIGHTING - ELEC. + MECH. ROOM	620	1	20 / 1	-A-	20 / 1	2	**500**	**GEN-100 BATTERY CHARGER**	X
R	RECEPTACLES - ELEC. + MECH. ROOM	1,000	3	20 / 1	-B-	20 / 1	4	**1,200**	**GEN-100 HEATER**	X
R	RECEPTACLES - TRANSFER BUILDING	500	5	20 / 1	-C-	20 / 1	6	1,000	CUH-2	H
R	RECEPTACLES - TRANSFER BUILDING	500	7	20 / 1	-A-	20 / 1	8	500	CUH-1	H
M	AST PUMP	*	9	20 / 1	-B-	20 / 2	10	2,440	LIGHTING - OUTDOOR POLE	L
	SPARE		11	20 / 1	-C-	20 / 2	12	2,440	LIGHTING - OUTDOOR POLE	L
	SPARE		13	20 / 1	-A-	20 / 1	14	*	PUSH WALL LIGHTS	L
M	WET WELL	*	15	50 / 3	-B-	50 / 2	16		SPACE	
M	WET WELL	*	17	50 / 3	-C-	50 / 2	18		SPACE	
M	WET WELL	*	19	50 / 3	-A-	20 / 2	20	*	COMPACTOR CONT. ROOM	X
X	WELDERS	*	21	50 / 2	-B-	20 / 2	22	*	COMPACTOR CONT. ROOM	X
X	WELDERS	*	23	50 / 2	-C-	30 / 1	24		HEAT TRACE	X
M	TRENCH DRAIN	*	25	70 / 3	-A-	30 / 1	26		HEAT TRACE	X
M	TRENCH DRAIN	*	27	70 / 3	-B-	30 / 1	28		HEAT TRACE	X
M	TRENCH DRAIN	*	29	70 / 3	-C-	30 / 1	30		HEAT TRACE	X
	LINE LOADS:	**2,120 VA(L1)**				**4,640 VA(L2)**		**3,940 VA(L3)**		
	TOTAL LOAD:	**10.70 KVA**				**29.7 AMPS**				

(1)

PANEL LA LOAD CALCULATION:

		CONNECTED VA	METHOD	NEC DEMAND	CALC. VA
TOTAL LIGHTING (L) LOAD:	L	5500	ALL @	125%	6875
TOTAL RECEPTACLE (R) LOAD:	R	2000	FIRST 10KVA @	125%	2500
			REMAINDER OVER 10KVA	50%	0
TOTAL MOTOR (M) LOAD:	M	0	ALL @	100%	0
	LM	0	125% OF LARGEST	125%	0
TOTAL HVAC (H) LOAD:	H	1500	ALL @	125%	1875
TOTAL MISCELLANEOUS (X) LOAD:	X	1700	ALL @	125%	2125
TOTAL VA:		10700 VA			13375 VA
AVERAGE AMPS @		30 AMPS			37 AMPS
VOLTAGE PHASE TO PHASE=	208				

NOTES

1. WIRE 120V GENERATOR CIRCUITS TO EXISTING BREAKERS.
2. ELECTRICAL CONTRACTOR TO PERFORM A 30-DAY LOAD STUDY PER NEC 220.87 AT PANELS LA AND HA TO VERIFY PANELBOARDS WILL ACCOMMODATE NEW LOADS. IF NEW LOADS CANNOT BE ACCOMMODATED, NOTIFY ENGINEER FOR NEXT COURSE OF ACTION.

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS1578151–E4
JOB No. 553–1578–151
DATE MARCH 2023

MARVIN C. CASANOVA — STATE OF WASHINGTON — 48989 — REGISTERED PROFESSIONAL ENGINEER

MARCH 1, 2023

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PROJECT NAME
OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

PANEL SCHEDULE

DRAWING NO. 7 OF 11
E4

NOTES

1. MCC-1 SCHEDULE PROVIDED FOR REFERENCE ONLY.

NAME: **MCC-1** v 3

VOLTAGE: 480
PHASE: 3
WIRE: 4
HERTZ: 60

NEUTRAL BUS: YES
GROUND BUS: YES
MAIN BREAKER SIZE: MLO AMPS
MINIMUM BUS SIZE: 800 AMPS
FAULT CURRENT BRACING: AMPS, RMS SYMMETRICAL

LOCATION: ELECTRICAL ROOM
FED FROM: MAIN SWITCHBOARD
FEED (OCPD SIZE): 225A
ENCLOSURE TYPE: NEMA 1

ASSET NUMBER	EQUIPMENT NAME OR LOAD DESCRIPTION	CONNECTED LOAD							LOAD TYPE	LTG	RCPT	MOTOR	HVAC	MISC	LARGEST MOTOR
		LOAD SIZE	LOAD UNIT	VOLT	PH	HP	AMPS	KVA							
REF-1	EXHAUST FAN 1	7.5	HP	480	3	7.5	11.0	9.1	LM	0.0	0.0	0.0	0.0	0.0	9.1
REF-2	EXHAUST FAN 2	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-3	EXHAUST FAN 3	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-4	EXHAUST FAN 4	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-5	EXHAUST FAN 5	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-6	EXHAUST FAN 6	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-7	EXHAUST FAN 7	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-8	EXHAUST FAN 8	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-9	EXHAUST FAN 9	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
REF-10	EXHAUST FAN 10	7.5	HP	480	3	7.5	11.0	9.1	M	0.0	0.0	9.1	0.0	0.0	0.0
						0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
	Connected Totals:									0.00	0.00	82.31	0.00	0.00	9.15

MCC-1 LOAD CALCULATION:

		CONNECTED KVA	METHOD	NEC DEMAND	CALC. KVA
TOTAL LIGHTING (L) LOAD:	L	0.00	ALL @	125%	0.00
TOTAL RECEPTACLE (R) LOAD:	R	0.00	FIRST 10KVA @	125%	0.00
			REMAINDER OVER 10KVA	50%	0.00
TOTAL MOTOR (M) LOAD:	M	82.31	ALL @	100%	82.31
	LM	9.15	125% OF LARGEST	125%	11.43
TOTAL HVAC (H) LOAD:	H	0.00	ALL @	125%	0.00
TOTAL MISCELLANEOUS (X) LOAD:	X	0.00	ALL @	125%	0.00
TOTAL KVA:		91.45 KVA			93.74 KVA
AVERAGE AMPS @	480 volts	110.00 AMPS			112.75 AMPS

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

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ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

MCC SCHEDULE

DRAWING NO. 8 OF 11
E5

NOTES

1. CONDUIT AND SUPPORTS INSTALLED OUTSIDE SHALL BE PVC COATED GRS.

CONDUIT AND CABLE SCHEDULE

v2.0

NUMBER	CONDUIT QUAN & SIZE	CONDUIT TYPE	WIRE FILL	WIRE TYPE	FROM	TO	VIA	REMARKS
P-01	(1)2"	GRS	(3)#1/0, (1)#6G	XHHW	SWITCHBOARD MSB	ATS-001		
P-01A	(1)2"	GRS	(3)#1/0, (1)#6G	XHHW	ATS-001	TRANSFORMER T-2		
P-02	(1)2"	GRS	(4)#4/0, (1)#6G	XHHW	SWITCHBOARD MSB	ATS-002		
P-02A	(1)2"	GRS	(4)#4/0, (1)#6G	XHHW	ATS-002	PANEL HA	SWITCHBOARD MSB	INSTALL NEW CONDUIT BETWEEN ATS-002 AND SWITCHBOARD MSB. ROUTE NEW CONDUCTOR THROUGH EXISTING U/G CONDUIT TO TRANSFORMER T2.
P-11	(1)2"	GRS	(3)#4/0, (1)#4G	XHHW	PANEL HB	ATS-001		
P-12	(1)2"	GRS	(3)#1/0, (1)#6G	XHHW	PANEL HB	ATS-002		
P-100	(2)2"	PGRS	(4)#3/0, (1)#4G	XHHW	GEN-100	PANEL HB		
P-101	(1)1"	PGRS	(4)#12, (2)#12G	XHHW	PANEL LA	GEN-100		GEN. BATT. CHARGER AND HEATER
C-100	(1)1"	PGRS	(4)#14, (1)#14G	THWN	ATS-001	GEN-100		START COMMAND FROM TRANSFER SWITCH. (2) SPARE #14

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS1578151-E6
JOB No. 553-1578-151
DATE MARCH 2023

MARVIN C. CASANOVA — STATE OF WASHINGTON — 48989 — REGISTERED PROFESSIONAL ENGINEER

MARCH 1, 2023

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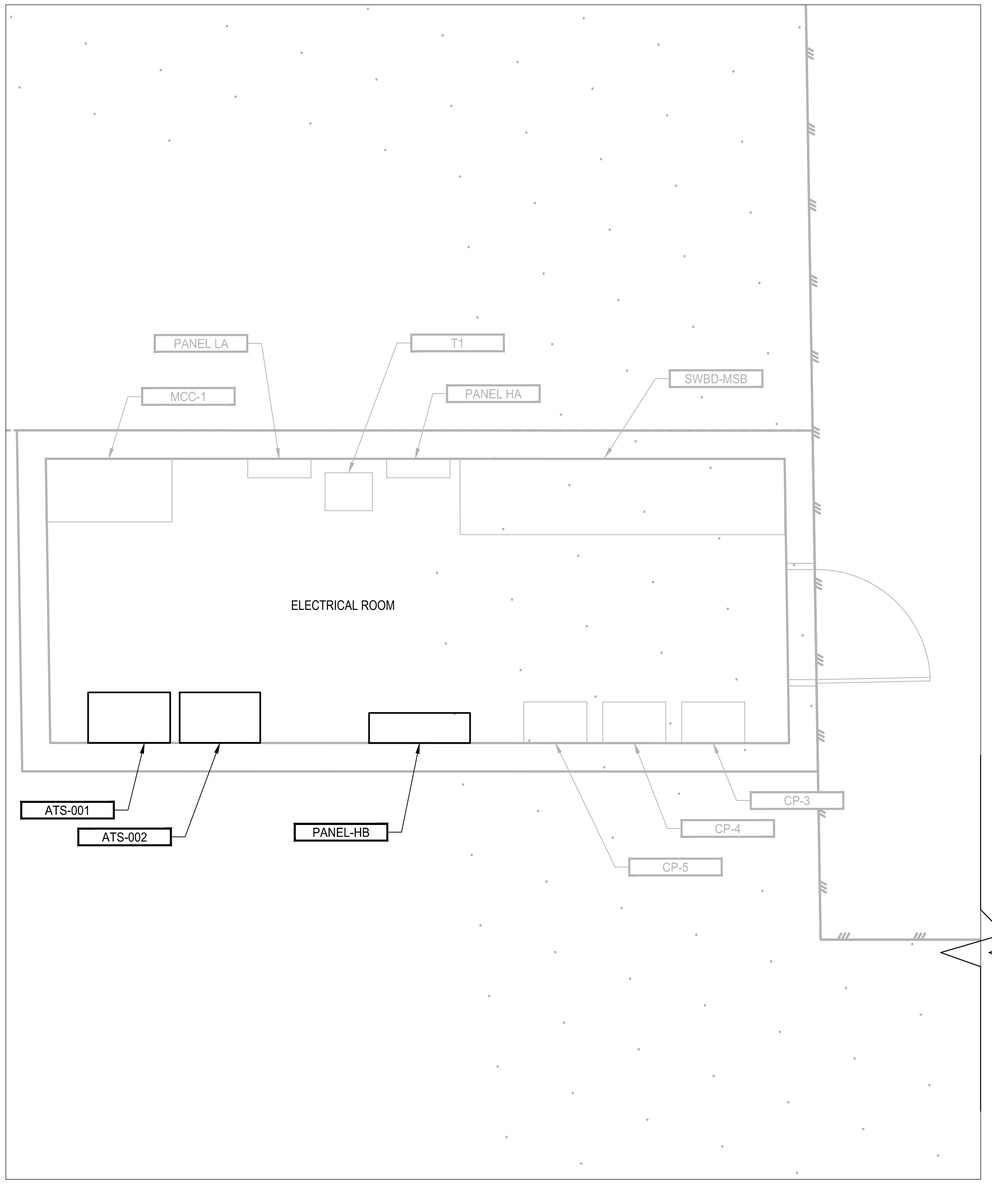
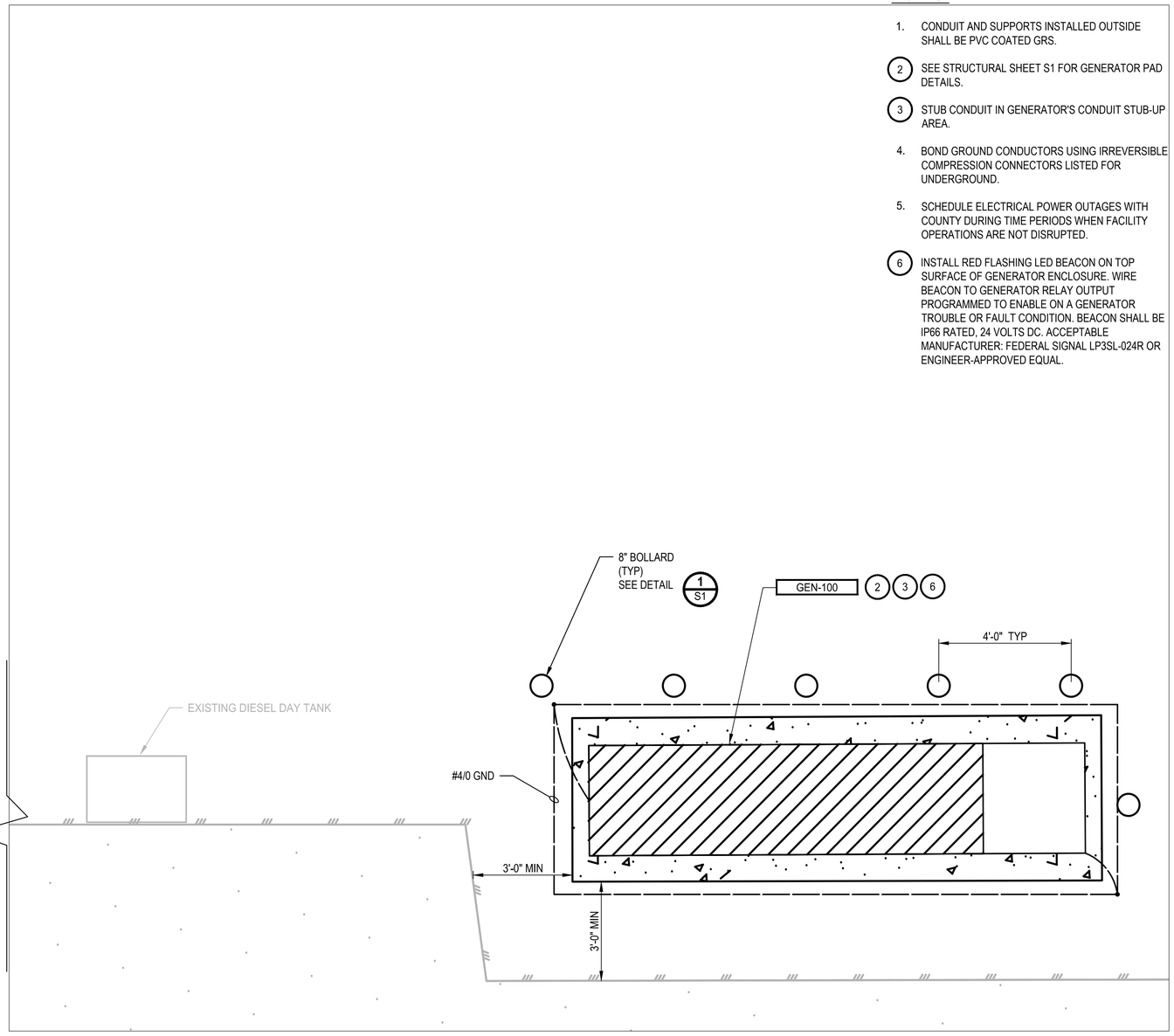
PROJECT NAME
OLYMPIC VIEW TRANSFER STATION
ELECTRICAL IMPROVEMENTS
BREMERTON, WASHINGTON

CONDUIT AND CABLE SCHEDULE

DRAWING NO. 9 OF 11
E6

LAYOUT: E6 PATH: U:\PSO\Projects\Clients\1578-KitsapCo\553-1578-151 OVTS FMP\99Svcs\CADD\DWG PLOTTED BY: peterden DATE: Tuesday, February 28, 2023 8:05:04 AM





NOTES

1. CONDUIT AND SUPPORTS INSTALLED OUTSIDE SHALL BE PVC COATED GRS.
2. SEE STRUCTURAL SHEET S1 FOR GENERATOR PAD DETAILS.
3. STUB CONDUIT IN GENERATOR'S CONDUIT STUB-UP AREA.
4. BOND GROUND CONDUCTORS USING IRREVERSIBLE COMPRESSION CONNECTORS LISTED FOR UNDERGROUND.
5. SCHEDULE ELECTRICAL POWER OUTAGES WITH COUNTY DURING TIME PERIODS WHEN FACILITY OPERATIONS ARE NOT DISRUPTED.
6. INSTALL RED FLASHING LED BEACON ON TOP SURFACE OF GENERATOR ENCLOSURE. WIRE BEACON TO GENERATOR RELAY OUTPUT PROGRAMMED TO ENABLE ON A GENERATOR TROUBLE OR FAULT CONDITION. BEACON SHALL BE IP66 RATED, 24 VOLTS DC. ACCEPTABLE MANUFACTURER: FEDERAL SIGNAL LP3SL-024R OR ENGINEER-APPROVED EQUAL.

ELECTRICAL ROOM AND GENERATOR
DETAILED PLAN
SCALE: 1/2" = 1'-0"

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS1578151-E7
JOB No. 553-1578-151
DATE MARCH 2023

MARVIN C. CASANOVA — STATE OF WASHINGTON — 48989 — REGISTERED PROFESSIONAL ENGINEER
MARCH 1, 2023

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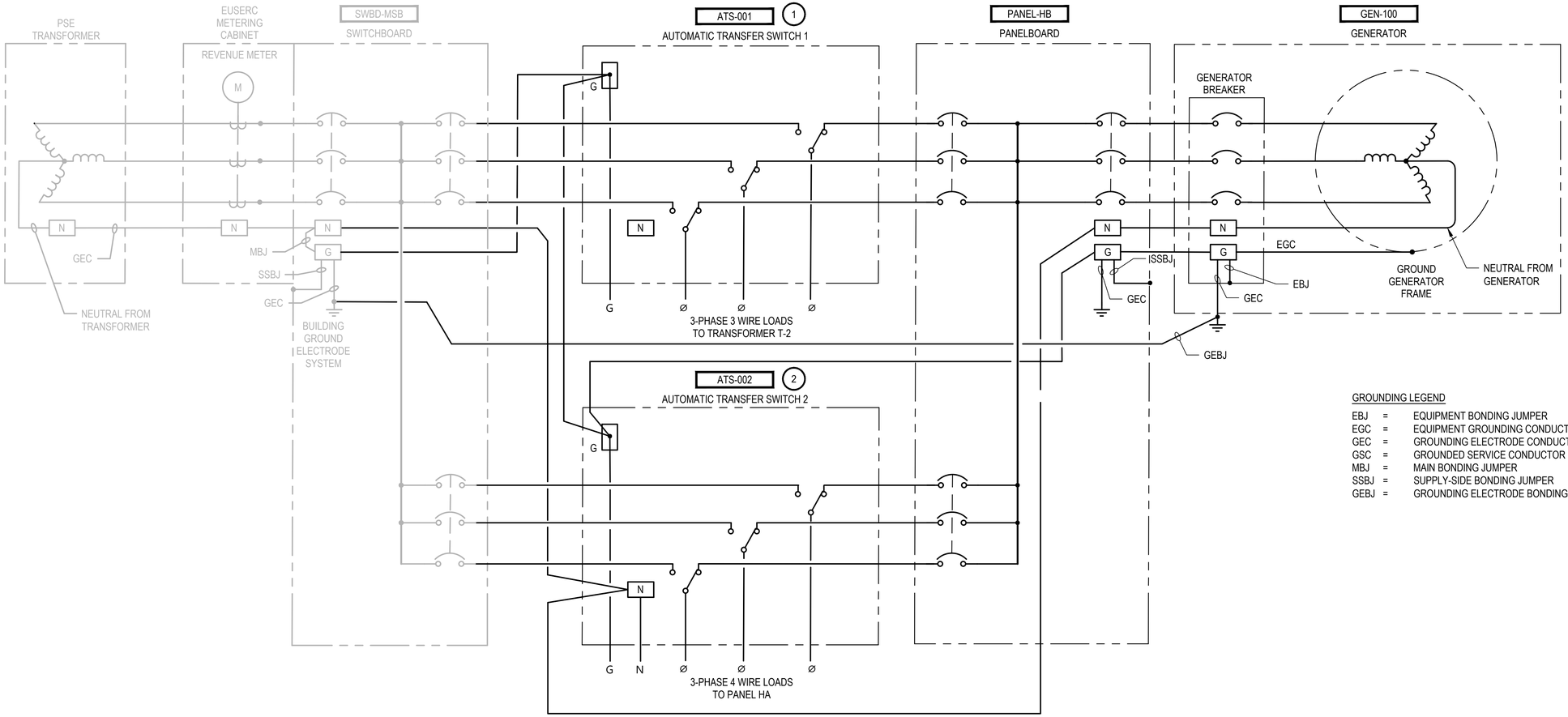
BREMERTON, WASHINGTON

POWER AND GROUNDING PLAN

DRAWING NO. 10 OF 11
E7

NOTES

1. GENERATOR START SIGNAL SHALL BE WIRED FROM AUTOMATIC TRANSFER SWITCH ATS-001 ONLY.
2. ATS-002 SHALL BE FIELD PROGRAMMED TO SWITCH TO GENERATOR POWER 30 SECONDS AFTER ATS-001 SWITCHES TO GENERATOR POWER.
3. SWITCH TIMING OF ATS-002 SHALL BE FIELD-ADJUSTED, AFTER INITIAL SETTINGS ARE ENTERED, TO OWNER'S SATISFACTION.
4. REFER TO ONE-LINE DIAGRAM ON DRAWING E3 FOR EQUIPMENT AND BREAKER SIZES AND RATINGS.



GROUNDING LEGEND

EBJ	=	EQUIPMENT BONDING JUMPER
EGC	=	EQUIPMENT GROUNDING CONDUCTOR
GEC	=	GROUNDING ELECTRODE CONDUCTOR
GSC	=	GROUNDED SERVICE CONDUCTOR
MBJ	=	MAIN BONDING JUMPER
SSBJ	=	SUPPLY-SIDE BONDING JUMPER
GEBJ	=	GROUNDING ELECTRODE BONDING JUMPER

ISSUED FOR BID

	REVISIONS	DATE	BY

DESIGNED M. CASANOVA
DRAWN D. PETERSON
CHECKED C. WITTMAN
APPROVED I. SUTTON

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS1578151-E8
JOB No. 553-1578-151
DATE MARCH 2023

MARTIN C. CASANOVA — STATE OF WASHINGTON — 48989 — REGISTERED PROFESSIONAL ENGINEER

MARCH 1, 2023

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GENERATOR INTERCONNECT DIAGRAM

DRAWING NO. 11 OF 11

E8