ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
(X)	CONDUIT AND CONDUCTOR CALLOUT PER CONDUIT AND CABLE SCHEDULE
▲	CONNECTION POINT TO EQUIPMENT SPECIFIED. FURNISHED AND INSTALLED UNDER OTHER DIVISIONS. RACEWAY CONDUCTOR AND CONNECTION IN THIS SECTION.
SPD	SURGE PROTECTIVE DEVICE
MCC–A	MAJOR ELECTRICAL COMPONENT OR DEVICE – NAME OR IDENTIFYING SYMBOL AS SHOWN.
	BRANCH CIRCUIT PANEL BOARD
UH1	UNIT HEATER
TTC	TELEPHONE TERMINAL CABINET
TJB	TERMINAL JUNCTION BOX
5 M	MOTOR, SQUIRREL CAGE INDUCTION, HORSEPOWER INDICATED
	WIRE PIGTAIL
(X) Y	LUMINAIRE, SEE SCHEDULE
z X Y ④ X Y	WALL MOUNTED LUMINAIRE, SEE SCHEDULE
X Y	EMERGENCY LIGHT FIXTURE
X Y	EXIT LIGHTS, SEE SCHEDULE X – INDICATES FIXTURE TYPE PER LIGHTING FIXTURE SCHEDULE Y – INDICATES CIRCUIT NUMBER FROM PANELBOARD z – INDICATES CONTROLLING SWITCH
	HOME RUN
	EXPOSED CONDUIT
	EMBEDDED OR CONCEALED CONDUIT; INTERLOCK
	BURIED CONDUIT
	REINFORCED CONCRETE–ENCASED CONDUITS
	CONCRETE–ENCLOSED GROUND WIRE
	NOTE: ALL POWER AND AC CONTROL CONDUITS AND CABLES SHALL INCLUDE A GROUND WIRE. PROVIDE GROUND WIRE IN DC CIRCUITS WHERE REQUIRED.
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT, STUBBED AND CAPPED AS SHOWN
[X###]	RACEWAY – CONDUCTOR TAG X= P– POWER 0–600V S– SIGNAL DC CONTROL C– SIGNAL AC CONTROL U– UTILITY T– TELEPHONE TV– CABLE TV D– DATA HIGHWAY F– FIRE ALARM
S^{A}_{3}	WALL SWITCH. SWITCH DESIGNATORS: 2– DOUBLE POLE; A, B, C – ASSOCIATED FIXTURE 3–THREE WAY; P– PILOT LIGHT 4– FOUR WAY; K– KEY OPERATED WP– WEATHERPROOF; D– DIMMER S– SAFETY (20A); CRE– CORROSION RESISTANT MC–MOMENTARY CONTACT
S_{M}	MANUAL MOTOR STARTER SWITCH

NOTE:

THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS. SOME SYMBOLS & ABBREVIATIONS APPEAR ON THE PLANS MAY BE AS WELL FOUND IN I&C LEGENDS SHEET.

SYMBOL	DESCRIPTION
Y	CONVENIENCE RECEPTACLE – DUPLEX UNLESS SPECIFIED OTHERWISE , 120V, 20A. Y INDICATES CIRCUIT NUMBER FROM PANELBOARD
	CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE WP–WEATHERPROOF; C– CLOCK HANGER TL– TWIST LOCK; CRE–CORROSION RESISTANT
30	RECEPTACLE – 208V, 1 PH, AMPERAGE INDICATED (250V, NEMA 6–*R) * = AMPERAGE
30 ▲	RECEPTACLE, SPECIAL PURPOSE: AMPS INDICATED
	TELEPHONE RECEPTACLE (OUTLET BOX ONLY) WALL MOUNTED
C	COMPUTER NETWORK CONNECTION BOX
J OR HH	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE.
CS	CONTROL STATION: TYPE PUSH BUTTONS & SWITCHES REQUIRED, SEE CONTROL DIAGRAMS.
30	NONFUSED DISCONNECT SWITCH, SIZE INDICATED. 3 POLE UNLESS INDICATED OTHERWISE.
60/40 F	FUSED DISCONNECT SWITCH, SIZE INDICATED (60/40, 60 = SWITCH RATING: 40 = FUSE RATING). 3 POLE UNLESS INDICATED OTHERWISE.
VFD	VARIABLE FREQUENCY DRIVE. SEE CONTROL DIAGRAM.
2	COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED) MAGNETIC STARTER, NEMA SIZE INDICATED, SEE CONTROL DIAGRAM.
F	FIRE ALARM STATION, MANUAL
F	FIRE ALARM BELL AND STROBE
FI	AIR DUCT SMOKE DETECTOR IONIZATION
S	SMOKE DETECTOR
K	MECHANICAL INTERLOCK (KIRK–KEY TYPE)
	WARNING BELL
	GROUNDING ROD
M	METER; KWH OR KWHD AS INDICATED
(3)	CURRENT TRANSFORMER, NUMBER INDICATED
G	CONNECTION POINT GROUND
N	NEUTRAL
	2 POSITION SWITCH
A	INDICATING LIGHT, PUSH–TO–TEST, LETTER INDICATES COLOR
A	INDICATING LIGHT – LETTER INDICATES COLOR A AMBER; G GREEN B BLUE; R RED C CLEAR; W WHITE

SYBMOL	DESCRIPTION
	CONTACT – NORMALLY OPEN
	CONTACT – NORMALLY CLOSED
	OVERLOAD RELAY HEATER
1	MAGNETIC STARTER WITH NEMA SIZE INDICATED
100/M	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.
E	ELECTRICALLY OPERATED CIRCUIT BREAKER
100	SWITCH – CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
225	FUSE – RATING INDICATED
XXXX AT XXXX AF	DRAWOUT CIRCUIT BREAKER, LOW VOLTAGE
	SURGE ARRESTER
	GROUND
120V OR 120/240V 15 KVA 1 PH	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE
GFR 25A 0.1	PICK–UP SETTING TIME CURRENT CHARACTERISTIC } GROUND FAULT RELAY WITH CT
	PUSH–BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
	PUSH–BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED
OFF ON AUTO XOO OOX OOX	SELECTOR SWITCH – MAINTAINED CONTACT – (–––) IDENTIFIES OPERATION: X – CLOSED CONTACT O – OPEN CONTACT
	THERMAL SWITCH
X	M = MAGNETIC CONTACTOR C = CONTROL RELAY TD = TIME DELAY RELAY
TD	TIME DELAY CONTACT NORMALLY CLOSED
TDR TC OR TDR TO	TIME DELAY RELAY CONTACT (TIME ACTION INDICATED)
	NORMALLY CLOSED LEVEL SWITCH, OPEN ON RISING LEVEL
	NORMALLY OPEN LEVEL SWITCH, CLOSE ON RISING LEVEL
	HEAT TRACE

ABBREVIATIONS

ABBREV	DESCRIPTION
A	AMMETER, AMPERE, AMBER
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINAL GRADE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BC	BARE COPPER
C	CONDUIT,CONTACTOR,CONDULET
CB	CIRCUIT BREAKER
CC	CONTROL CABLE
CKT	CIRCUIT
CL	CLOSE
CO	CONDUIT ONLY
COMM	COMMUNICATION
COS	CITY OF SEATTLE
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CS	CONTROL STATION
CSO	COMBINED SEWER OVERFLOW
CT	CURRENT TRANSFORMER
CU	COPPER WIRE
CTL	CENTURYLINK
DC	DIRECT CURRENT
DIV	DIVISION
DS	DISCONNECT SWITCH
E	EMPTY, ELECTRIC CONDUIT
ECB	ELECTRICAL CABLE
ECD	ELECTRICAL CONDUIT
ECP	ENVIRONMENTAL CONTROL PANEL
EF	EXHAUST FAN
EL	ELEVATION
ETM	ELAPSED TIME METER
EXST,EX	EXISTING
EP	EXPLOSION PROOF
F, FU	FUSE
FAP	FIRE ALARM PANEL
FE	FLOW ELEMENT
FT	FLOW TRANSMITTER
FLUOR	FLUORESCENT
FVNR	FULL VOLTAGE NON–REVERSING
FVR	FULL VOLTAGE REVERSING
FV	FLOW VALVE
G	GREEN, GROUND
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
HS	HAND SWITCH
HVAC	HEATING, VENTILATING & AIR CONDITIONING
I&C	INSTRUMENTATION AND CONTROL
INST	INSTANTANEOUS
J,JB	JUNCTION BOX
KWH	KILOWATT HOUR
KWHD	KILOWATT HOUR DEMAND
L	LIGHTING CONTACTOR, LOW SPEED
LB	CONDULET BEND
LCP	LOCAL CONTROL PANEL
LE	LEVEL ELEMENT
LT	LEVEL TRANSMITTER
LOS	LOCKOUT STOP PUSH BUTTON
LS	LEVEL SWITCH
MTS	MANUAL TRANSFER SWITCH

ABBREV	DESCRIPTION
M	MAGNETIC CONTACTOR COIL, MAGNETIC TRIP
MCCB	MOLDED CASE CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MAIN CONTROL PANEL
MD	MOTORIZED DAMPER
MH	MAINTENANCE HOLE
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOTOR STARTER
MSC	MFR SUPPLIED CABLE
N/NEU	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OL	OVERLOAD RELAY
P	PUMP
PE	PRESSURE ELEMENT
PT	PRESSURE TRANSMITTER
PB	PULL BOX
PC	PHOTOCELL
PDP	POWER DISTRIBUTION PANEL
PDM	POWER DATA MONITOR
PH	PHASE
PNL	PANEL
PP	PUMP PANEL
PS	PRESSURE SWITCH
PSC	PUMP STARTS COUNTER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
PVC–RGS	PVC COATED RIGID GALVANIZED STEEL CONDUIT
R	RED
REC	RECEPTACLE
RDM	REMOTE DISPLAY MODULE
RGS	RIGID GALVANIZED STEEL CONDUIT
RT	REMOTE TELEMETRY
RTC	REAL TIME CONTROL
RTU	REMOTE TRANSMISSION UNIT
RVSS	REDUCED VOLTAGE SOLID STATE STARTER
SA	SURGE ARRESTOR
SC	SPEED CONTROL
SCL	SEATTLE CITY LIGHT
SD	SMOKE DETECTOR
SS	SOFT START
SST	STAINLESS STEEL
SV	SOLENOID VALVE
SW	SWITCH
SWGR	SWITCHGEAR
T	THERMOSTAT
TC	TIME CLOCK, TIME CLOSE
TCD	TELEMETRY CONDUIT
TD	TEMPERATURE DETECTOR RELAY, TIME DELAY
TDR	TIME DELAY RELAY
TEL	TELEPHONE BACKBOARD
THM	THERMAL SWITCH
TJB	TERMINAL JUNCTION BOX
TO	TIME OPEN
TS	TEMPERATURE SWITCH
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UH	UNIT HEATER
UVR	UNDER VOLTAGE RELAY
V	VOLTMETER, VOLT
VFD	VARIABLE FREQUENCY DRIVE
VSC	VENDOR SPECIFIED CABLE
W	WATT
WHD	WATTHOUR DEMAND METER
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION–PROOF

FIGURE B–1
ELECTRICAL LEGEND AND ABBREVIATIONS

NATURE REVISIONS	MADE CHK'D	REV'D

VAULT	SERIAL NO.	DATE	MARK

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0 ½ 1
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Chuck Clarke, Director

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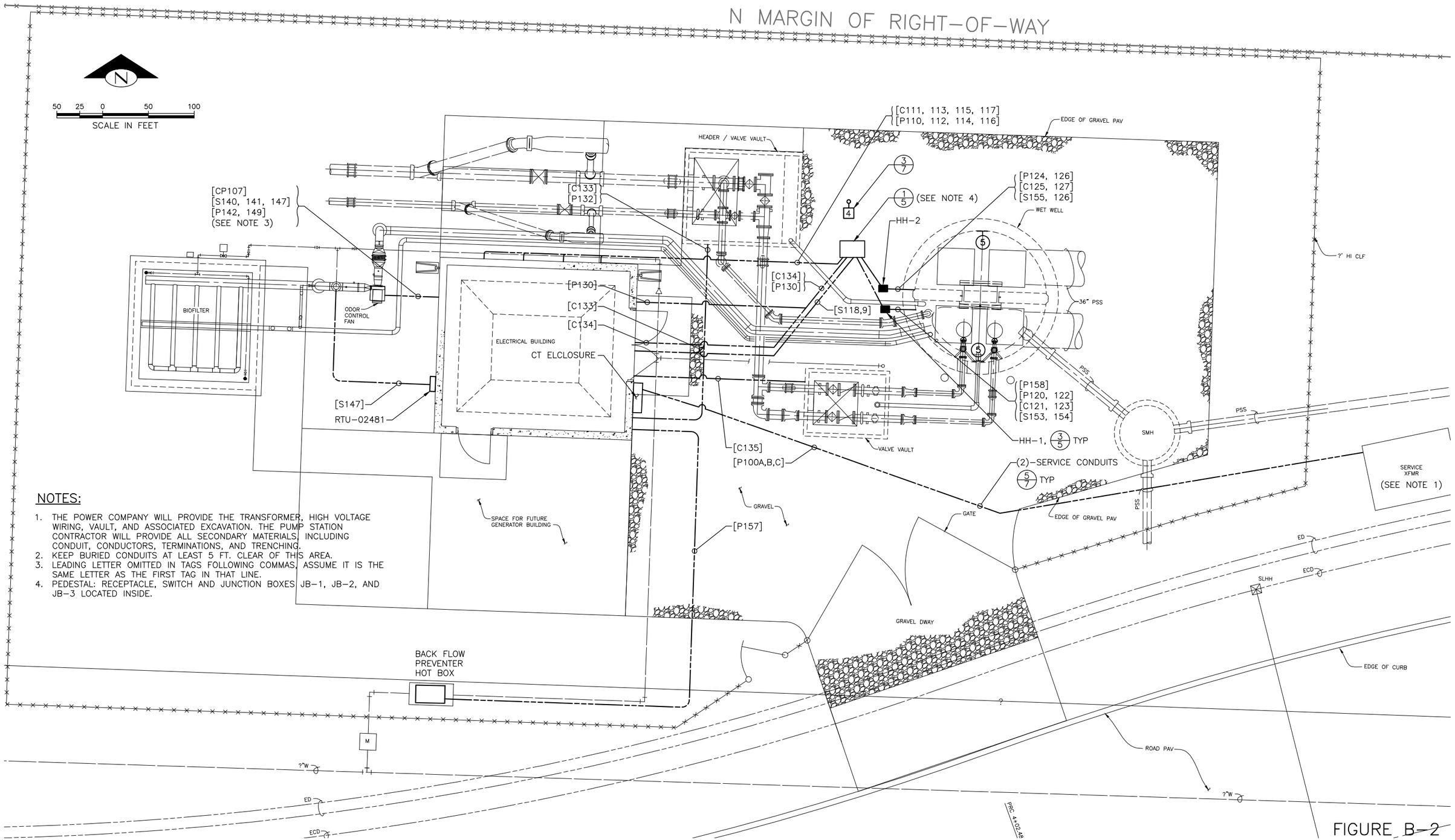

NOTES:

1. THE POWER COMPANY WILL PROVIDE THE TRANSFORMER, HIGH VOLTAGE WIRING, VAULT, AND ASSOCIATED EXCAVATION. THE PUMP STATION CONTRACTOR WILL PROVIDE ALL SECONDARY MATERIALS, INCLUDING CONDUIT, CONDUCTORS, TERMINATIONS, AND TRENCHING.
2. KEEP BURIED CONDUITS AT LEAST 5 FT. CLEAR OF THIS AREA.
3. LEADING LETTER OMITTED IN TAGS FOLLOWING COMMAS, ASSUME IT IS THE SAME LETTER AS THE FIRST TAG IN THAT LINE.
4. PEDESTAL: RECEPTACLE, SWITCH AND JUNCTION BOXES JB-1, JB-2, AND JB-3 LOCATED INSIDE.

FIGURE B-2
ELECTRICAL SITE PLAN

VAULT SERIAL NO.	DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

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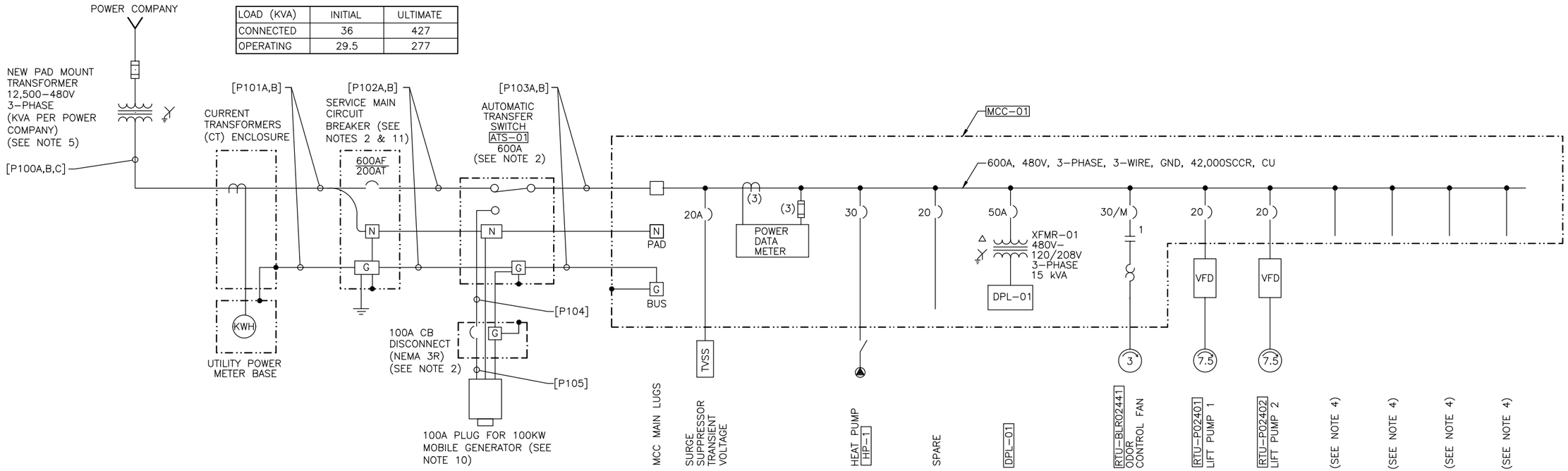
LOAD (KVA)	INITIAL	ULTIMATE
CONNECTED	36	427
OPERATING	29.5	277



1	2	3 (SEE NOTE 6)	4 (SEE NOTE 6)
MAIN LUGS	ODOR CONTROL FAN	LIFT PUMP 1	(SEE NOTE 4)
	DPL–01	LIFT PUMP 2	
METER		(SEE NOTE 4)	(SEE NOTE 4)
TVSS	XFMR–01		
HP–1 / SPARE		(SEE NOTE 4)	SPACE

SEE NOTE 3

MCC ELEVATION
NTS

PANEL: DPL–01

VOLTAGE: 208/120 | PANEL BUS: 100 AMPS | SERVICE RATED: NO
PHASE, WIRES: 3, 4 | MAIN: 60A BREAKER | NEUTRAL: BONDED
SCR (AMPS): 10,000 | 125% OF MAX BUS LOAD: 20 AMPS | MOUNTING: IN MCC
SOURCE: MCC, 15KVA XFMR | TOTAL LOAD: 4.7 KVA | FEED: TOP/BOTTOM

DESCRIPTION	KVA	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
INSIDE LIGHTS	0.3	20/1	1	3.3			2	15/1	0.1	SMOKE DETECTOR
INSIDE RECEPTACLES (2 @ 180 VA)	0.36	20/1	3		8		4	20/1	0.6	OUTSIDE AND WETWELL LIGHTS
RTU–LCP–024 (PLC)	0.5	20/1	5			8.7	6	20/1	0.54	OUTSIDE RECEPTACLES (3 @ 180 VA)
RTU–LCP–024 (INSTRUMENT POWER)	0.5	20/1	7	8.3			8	20/1	0.5	HEAT TRACE (SEE NOTE 9)
RTU–LCP–024 (PANEL POWER)	0.5	20/1	9		5		10	20/1	0.1	HOTBOX HEATER (SEE NOTE 9)
AE/AIT02490	0.1	15/1	11			1.7	12	20/1	0.1	ATTIC
RTU–LCP–02481	0.5	20/1	13	4.2			14	20/3		SPARE (SEE NOTE 8)
SPARE		20/1	15		0		16	–		"
SPARE		20/1	17			0	18	–		"
SPARE (SEE NOTE 8)		20/3	19	0			20	20/3		SPARE (SEE NOTE 8)
"		–	21		0		22	–		"
"		–	23			0	24	–		"
			TOTALS	15.8	13	10.3	AMPS			

NOTES:

1. GENERATOR CIRCUIT BREAKER TO BE SIZED BY MANUFACTURER.
2. BREAKER AND EQUIPMENT SHALL BE SERVICE ENTRANCE RATED, WITH AN SCCR OF AT LEAST 42,000A.
3. NO CONCRETE PAD. PROVIDE ANTI CORROSION MATERIAL BETWEEN MCC AND CONCRETE FLOOR.
4. PROVIDE PREPARED SPACE FOR FUTURE 250A FRAME FEEDER CB.
5. SEE DWG E–02 FOR SERVICE DETAILS.
6. PROVIDE 600A VERTICAL BUS THIS SECTION.
7. PROVIDE GENERATOR RECEPTACLE: CROUSE–HINDS AREA1042 TO MATCH PLUG ARJ–1048 ON EXISTING MOBILE GENERATOR. PLUG AND DISCONNECT MAY BE PROVIDED AS PREASSEMBLED UNIT.
8. POSSIBLE FUTURE LOADS: – 3 MOTORIZED VALVE OPERATORS, 3–PH.
9. PROVIDE GFEP, 30mA, TYPE EQUIPMENT GROUND FAULT PROTECTION CIRCUIT BREAKER.
10. SPU STANDARD PRACTICE REQUIRES MANUAL TRANSFER SWITCH (MTS) WITH MOBILE GENERATOR CONNECTION. ATS PROVIDED AS EXCEPTION DUE TO FUTURE ON–SITE GENERATOR.
11. IN A NEMA 1 ENCLOSURE PROVIDE AN 80% RATED STATIC TRIP CIRCUIT BREAKER PER SPECIFICATIONS.

FUTURE ON –SITE GENERATOR 200KW, 277/480V, 3–PH, 4–WIRE, 250KVA STANDBY (SEE NOTE 1)

FIGURE B–3
ELECTRICAL ONE–LINE DIAGRAM

NATURE REVISIONS	MADE	CHK'D	REV'D

VAULT SERIAL NO.	DATE	MARK

0 ½ 1
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CLASSIFIED HAZARDOUS AREA (SEE NOTE 11)

[S147]
PDT02440
PDT02441
AE/AIT02490
[S140]
[S141]
[S142]
BLR02441
ODOR CONTROL FAN
(SEE NOTE 13)

[P116] [C117]
[P114] [C115]
[P112] [C113]
[P110] [C111]
(SEE NOTE 9) TYP
FROM PEDESTAL (TYP)
(SEE NOTE 12) TYP
AFD02421
AFD02422

[P149]
20
[CP107]
30
[CP107]
HP-1
(SEE NOTE 15)
INTAKE AND EXHAUST GRILLES

TYP 6/7
[S136] [C137]
[P109]
[S138] [C139]
[P108]

(SEE NOTE 1)
(SEE NOTE 3)
1
A

2/7
(SEE NOTE 10)
ARC
GFI
WP
[P130]
TO RECEPTACLE, WETWELL LTS, AND POLE LIGHT
(SEE NOTE 4)
[C150]
ZS-2491B

RTU-LCP-024
[P106]
30
[S118,9] [C133,4,5]
CONTINUE ON SITE PLAN
[C128]
SD
(SEE NOTE 5)
[P129]
(SEE NOTE 14)

ELECTRICAL BUILDING

TO SOLENOID VALVE (SEE NOTE 7)
[S143] [C144]
[P152]
[C146]
RTU-02481
[C148]
[P145]
GFI
WP
3'-6"AFF

TYP 11/7
3B
EDGE OF GRAVEL PAV
CT ENCLOSURE
KWH METER
[P100A,B] (SEE NOTE 8)
TYP 7/7
GRAVEL
TYP 8/7
MOBILE GENERATOR PLUG AND DISCONNECT (SEE NOTE 2)
TYP 9/7

[P132] [P157]
[C151]
AST-01
SHELF WITH DROP LEAF
[C150]
S3
2 PC
MCC-01
DPL-01
ZS-2491A
TYP 10/7
SPACE FOR FUTURE GENERATOR BUILDING

NOTES:

1. TYPICAL OF 4 SPACES ALONG NORTH WALL RESERVED FOR FUTURE AFD PUMP DRIVES AND UPGRADE OF EXISTING DRIVES.
2. MOUNT WITH PLUG 3FT. AFG.
3. MOUNT LIGHTS WITH BOTTOM AT 8'-0" AFF. SWITCH AS SHOWN AND POWER PER DPL-01 SCHEDULE.
4. MOUNT RECEPTACLES AT 24" UNLESS INDICATED OTHERWISE. POWER PER DPL-01 SCHEDULE.
5. LOCATE CLEAR OF CEILING CONDUITS.
6. PROVIDE 12" WIDE BY 4 1/2FT LONG x 3/4" THICK LAMINATED PLYWOOD SHELF. WALL-MOUNT 36" AFF WITH THREE HEAVY DUTY TRIANGULAR BRACKETS UNDERNEATH. PROVIDE 30" WIDE BY 16" DEEP HINGED DROP LEAF AT NORTH END, MADE OF SAME MATERIAL AS SHELF. PROVIDE HARDWARE TO LOCK LEAF IN HORIZONTAL POSITION.
7. SEE ODOR CONTROL DWG.
8. SEE ONE-LINE DWG FOR MAJOR EQUIPMENT CONNECTIONS.
9. STUB, CAP, AND TAG ALL EMPTY CONDUITS.
10. ROUTE HOT AND SWITCHED POLE LIGHT CIRCUIT TO OUTSIDE RECEPTACLE BOX FOR INCLUSION IN [P130].
11. AREA WITHIN 3 FT. OF BLOWER AND EXPOSED ODOR DUCTING IS CLASS I. DIV 2. INSIDE OF DUCT IS CLASS I. DIV 1.
12. ROUTE UP OUTSIDE WALL AND PENETRATE AT HEIGHT APPROPRIATE FOR AFD.
13. ROUTE TO HEAT TRACE EXPOSED WATER PIPING IDENTIFIED ON ODOR CONTROL DWG.
14. PROVIDE SWITCH, KEYLESS SOCKET WITH 60W BULB, AND GFI RECEPTACLE N ATTIC ADJACENT TO ACCESS HATCH.
15. PACKAGED HEAT PUMP UNIT. SEE RCHITECTURAL/STRUCTURAL PLANS.
16. EQUIPMENT SPACE IS LIMITED. VERIFY ACTUAL EQUIPMENT SUPPLIED WILL FIT IN ALLOCATED SPACES.

N

ELECTRICAL AND HVAC PLAN
(SEE NOTE 6)

FIGURE B-4
ELECTRICAL POWER AND LIGHTING PLAN WITH HVAC

NATURE REVISIONS	MADE	CHK'D	REV'D

VAULT SERIAL NO.	DATE	MARK

0 ½ 1
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CHECKED	DES. CONST.
	SDOT PROJ. MGR.
DRAWN CCH	RECEIVED
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SCALE: 3/4" = 1'-0" INSPECTOR'S BOOK

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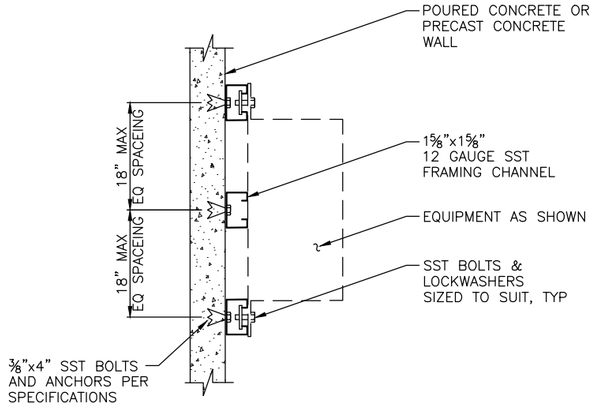
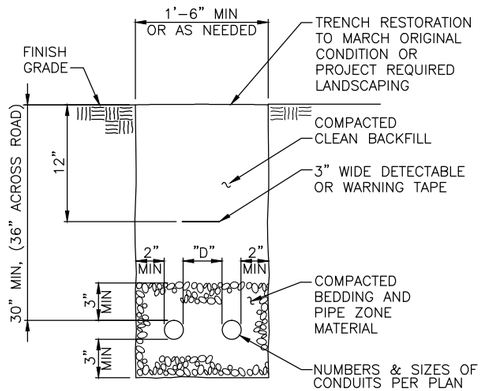
Layout Tab: 4 N723301_EL_PowerLightingPlan



EQUIPMENT MOUNTED ON MASONRY SURFACE — 1 VAR

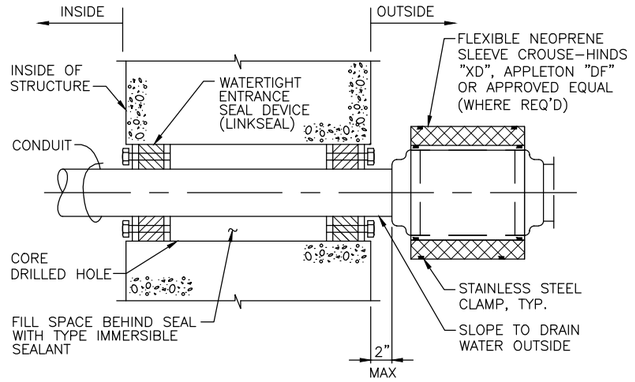
NTS



D = 2" MIN FOR POWER OR COMM CONDUITS
D = 6" MIN BETWEEN POWER AND COMM CONDUITS

TRENCH AND CONDUIT PLACEMENT — 2 VAR

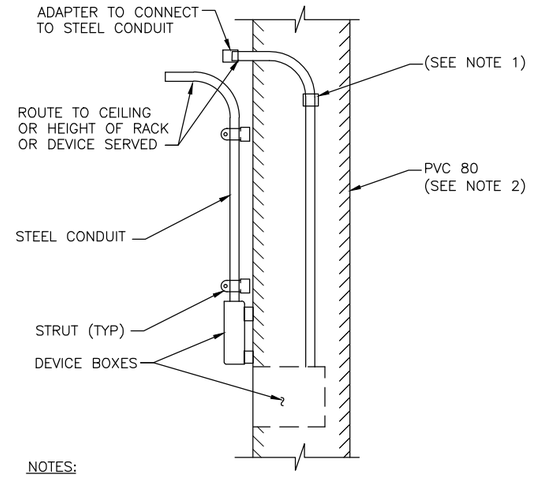
NTS



NOTE:
USE DOUBLE LINK–SEAL MODULES WHERE APPLIED WHEN CONDUITS PENETRATE EXISTING UNDERGROUND STRUCTURES.

WATERTIGHT WALL CONDUIT SEAL — 3 VAR

NTS

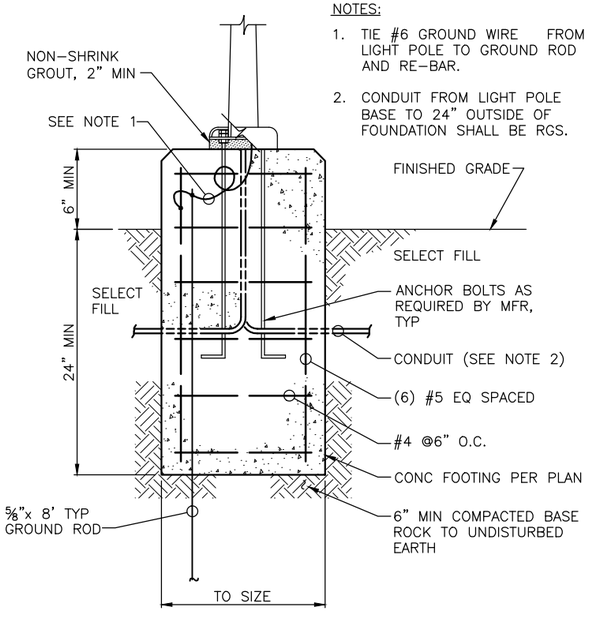


NOTES:

1. MAY BE PVC–80 IF PVC–RGS ELBOW PROVIDED WHERE CONDUIT EXITS WALL.
2. NO MORE THAN 2–1" CONDUITS PER CMU CELL. AVOID REINFORCED CELLS WHEN POSSIBLE. OTHERWISE, COORDINATE WITH STRUCTURAL ENGINEER.

CONDUIT WALL INSTALLATION — 4 VAR

NTS

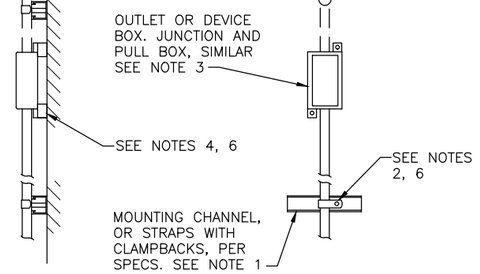


NOTES:

1. TIE #6 GROUND WIRE FROM LIGHT POLE TO GROUND ROD AND RE–BAR.
2. CONDUIT FROM LIGHT POLE BASE TO 24" OUTSIDE OF FOUNDATION SHALL BE RGS.

TYPICAL LIGHT POLE BASE IN PAVING — 5 VAR

NTS



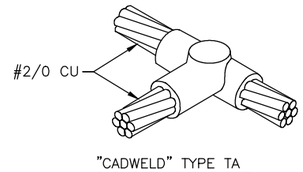
SECTION ELEVATION

NOTES:

1. SMOOTH ALL ROUGH EDGES OF MOUNTING CHANNEL, USE TOUCH–UP PAINT AS REQUIRED.
2. USE SINGLE–HOLE STRAP CLAMPS WITH MATCHING CLAMP BACKS WHERE LOWER THAN 6–FEET.
3. MOUNTING HEIGHT BASED ON SPEC REQUIREMENTS EXCEPT AS INDICATED ON DWGS.
4. SPACE OFF WALL AT LEAST ¼". USE ¾" DIAMETER NYLON SPACER.
5. WHERE APPLICABLE BOXES WITH TWO OR MORE CONDUITS MAY HAVE SUPPORTS OMITTED PER NEC.
6. USE STAINLESS STEEL HARDWARE.

WALL MOUNTED DEVICE — 6 VAR

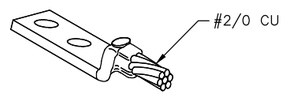
NTS



"CADWELD" TYPE TA CABLE TO CABLE TEE CONNECTION

DETAIL — 7 VAR

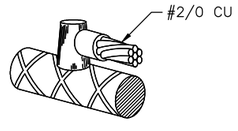
NTS



"CADWELD" TYPE GL CABLE TO BURNDY TYPE QQA TWO–HOLE CONNECTION

DETAIL — 8 VAR

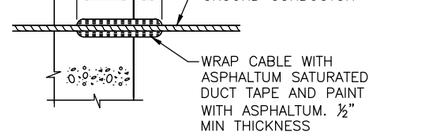
NTS



"CADWELD" TYPE RR END CABLE TO UPPER REBAR CONNECTION

DETAIL — 9 VAR

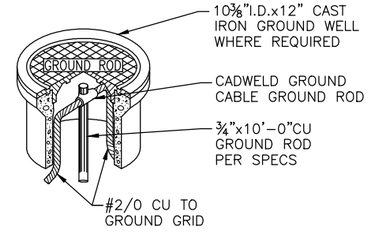
NTS



GROUND CONDUCTOR PENETRATION THROUGH CONCRETE WHERE LOW GROUND WATER TABLE

DETAIL — 10 VAR

NTS



DETAIL — 11 VAR

NTS

FIGURE B–5
ELECTRICAL STANDARD DETAILS

REVISIONS				
NATURE	MADE	CHK'D	REV'D	
VAULT SERIAL NO.	DATE	MARK		

0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT PLOTTED TO ORIGINAL SCALE.

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DEPARTMENT OF EXECUTIVE ADMINISTRATION
SEATTLE, WASHINGTON 20

BY:
DIRECTOR, CONTRACTING SERVICES

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	DES. CONST.
	SDOT PROJ. MGR.
DRAWN CCH	RECEIVED
CHECKED	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0–02.3 OF THE PROJECT MANUAL.

Seattle Public Utilities

City of Seattle
Chuck Clarke, Director

ORDINANCE NO.
FUND:
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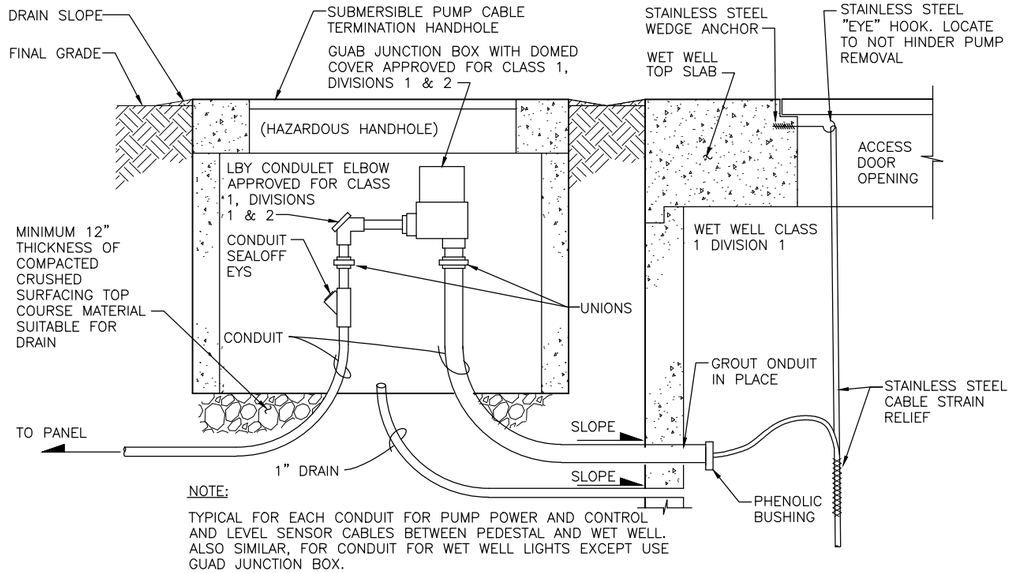
LIGHTING SCHEDULES

SYM	TYPE	DESCRIPTION	LAMPS	VOLTS	MOUNTING	MANUFACTURER	POLE
①	FLUOR	HEAVY DUTY INDUSTRIAL FIXTURE, DIE EMBOSSED REFLECTOR CONSTRUCTED OF HEAVY GAUGE COLD-ROLLED STEEL. EXTRUDED APERATURES FOR 10% UPLIGHT. HEAVY GAUGE STEEL HOUSING WITH LONGITUDINAL RIBS.	F32T8	120	STEM	LITHONIA AF10-2-32-120	N/A
①/	FLUOR	SAME AS TYPE 1, EXCEPT WITH AN EMERGENCY BALLAST.	F32T8	120	STEM		N/A
② PC	HPS	SMALL WALL MOUNT LUMINAIRE. WET LOCATION RATED WITH ONE-PIECE POLYCARBONATE FRONT AND ALUMINUM BASE, AND PHOTOCELL.	35W HPS	120	WALL	GE WS03S120PE	N/A
③	HPS	SHOEBOX LUMINAIRE, UL WET LOCATION LABEL, HEAVY-GAUGE, ALUMINUM HOUSING, WELDED SEAMS, HEAT/IMPACT RESISTANT. IMPACT-RESISTANT TEMPERED GLASS LENS. TYPE II DISTRIBUTION.	150W HPS	120	WALL	GE W25C15S1A1GMEDDB	N/A
④	HPS	SHOEBOX LUMINAIRE, UL WET LOCATION LABEL, HEAVY-GAUGE, ALUMINUM HOUSING, WELDED SEAMS, HEAT/IMPACT RESISTANT. IMPACT-RESISTANT TEMPERED GLASS LENS. TYPE II DISTRIBUTION.	250W HPS	120	POLE	LITHONIA KSF1150SR2120SP04	20' ALUMINUM ALLOY, SQUARE, WITH HANDHOLE. LITHONIA SSA154C OR APPROVED EQUAL
⑤	MH	COPPER FREE ALUMINUM BALLAST HOUSING, GLASS GLOBE, FIBERGLAS REINFORCED REFLECTOR, STAINLESS STEEL EXTERIOR HARDWARE, PORCELAIN LAMP SOCKET. SUITABLE FOR USE IN CLASS I, DIVISION 1.	100W	120	WALL	CROUSE-HINDS/COOPER EVMBX92101	N/A



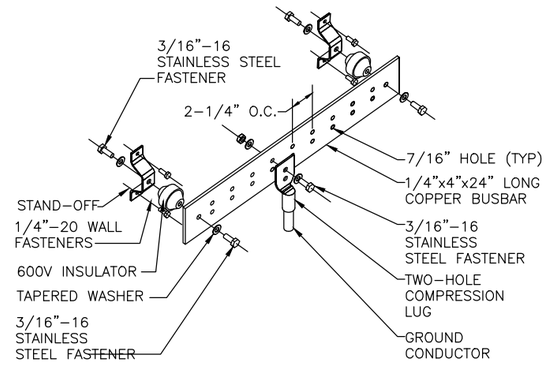
NOTE:

TYPICAL FOR EACH CONDUIT FOR PUMP POWER AND CONTROL AND LEVEL SENSOR CABLES BETWEEN PEDESTAL AND WET WELL. ALSO SIMILAR, FOR CONDUIT FOR WET WELL LIGHTS EXCEPT USE GUAD JUNCTION BOX.

TYP. MOTOR POWER AND SENSOR CABLE TERMINATION HANDHOLE DETAIL

NTS

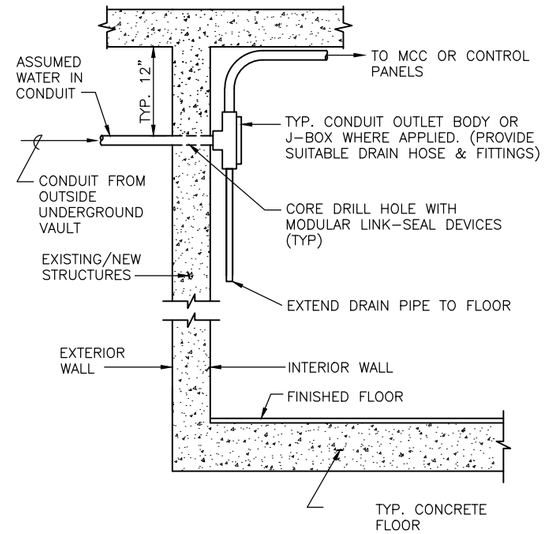
4 VAR



TYP. GROUNDING BUSBAR DETAILS

NTS

1 VAR

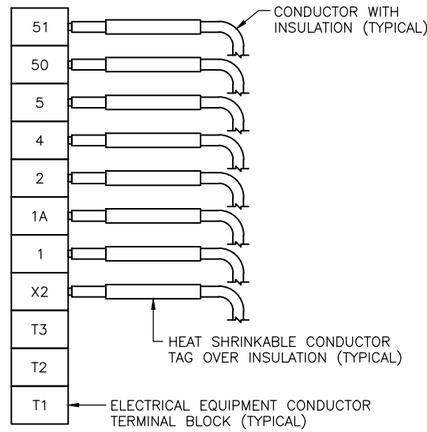


TYP. UNDERGROUND VAULT CONDUIT PENETRATION DETAIL

NTS

2 VAR

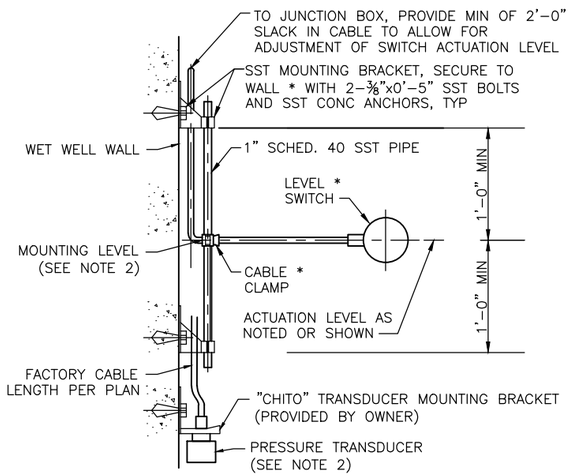
1. PROVIDE CONDUCTOR TAGS AT EACH CONDUCTOR TERMINATION.
2. PROVIDE CONDUCTOR TAGS WITH THE NOMENCLATURE AS SHOWN ON THE WIRING DIAGRAMS.



TYP. WIRE TAGGING DETAIL

NTS

3 VAR



TYP. FLOAT LEVEL SWITCH & TRANSDUCER MOUNTING DETAIL

NTS

5 VAR

FIGURE B-6
LIGHTING SCHEDULE AND ELECTRICAL DETAILS

VAULT SERIAL NO.	DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

0 ½ 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT PLOTTED TO ORIGINAL SCALE.

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DESIGNED / CHECKED	REVIEWED: DES. CONST. SDOT PROJ. MGR.
DRAWN CCH / CHECKED	RECEIVED
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City of Seattle
Chuck Clarke, Director

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