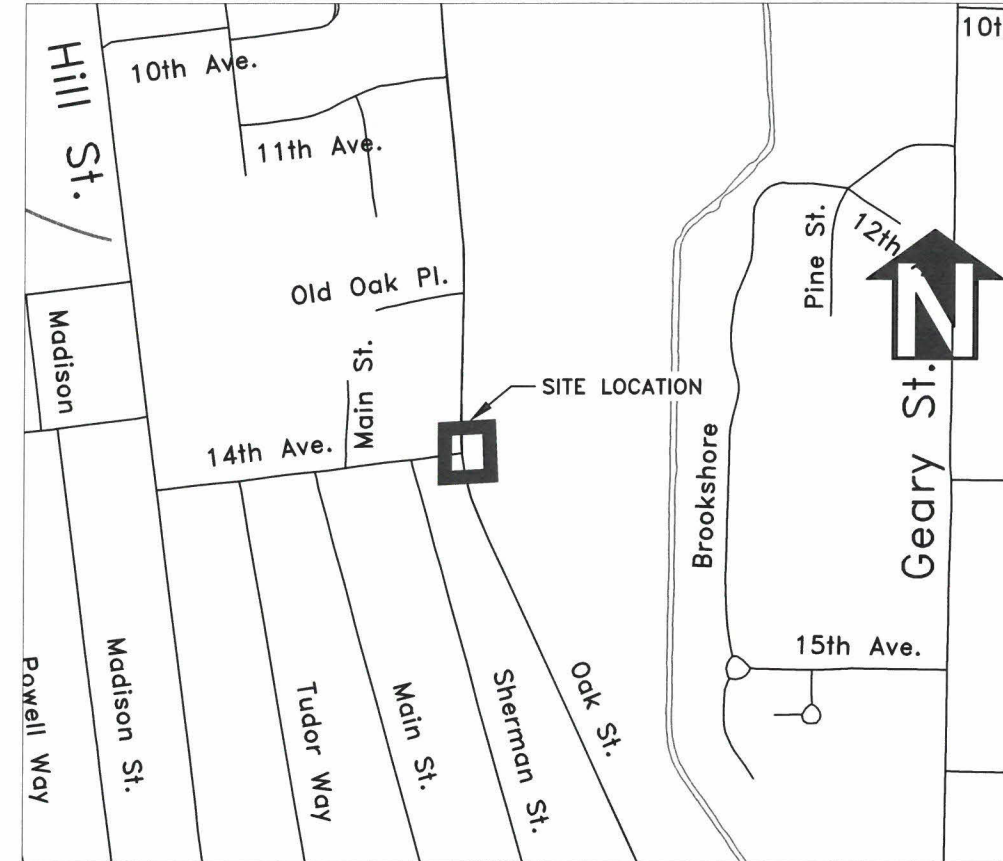
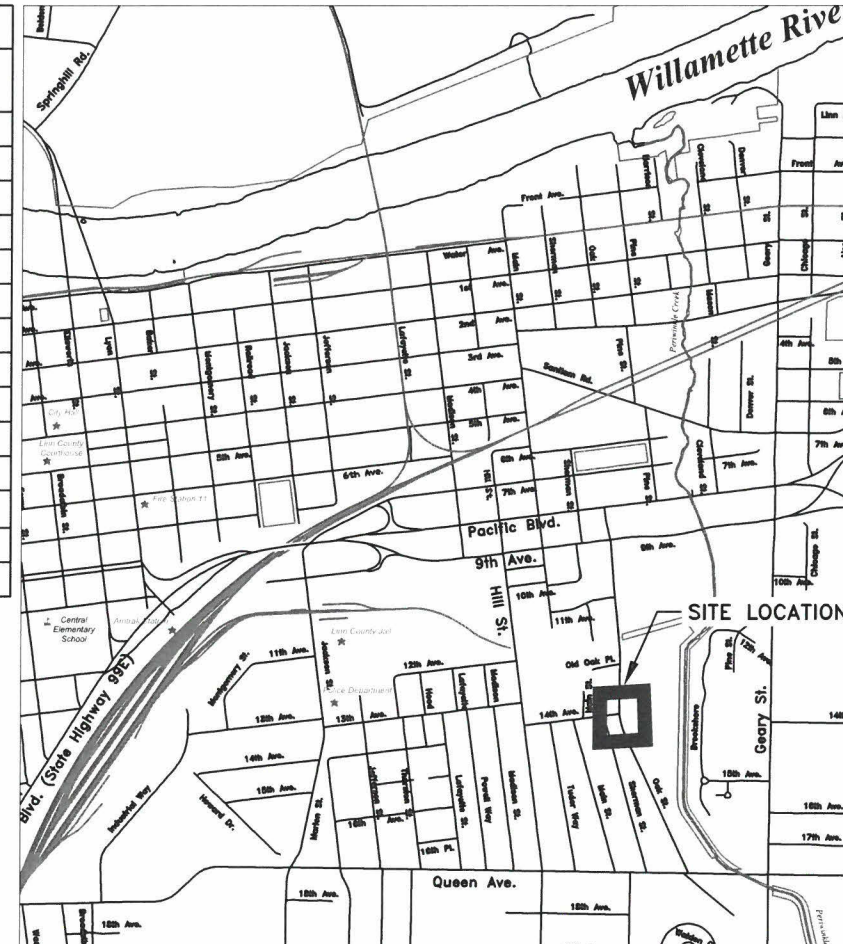


CITY OF ALBANY

SS-19-04, 14TH & OAK LIFT STATION UPGRADE

SHEET INDEX	
SHEET #	SHEET TITLE
1	COVER
2	SITE OVERVIEW
3	SITE PLAN
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9	ONE-LINE DIAGRAM & CONDUIT SCHEDULE
10	ELECTRICAL DEMOLITION SITE PLAN
11	ELECTRICAL SITE PLAN
12	PUMP STATION AND CLASSIFIED AREA
13	PANEL SCHEDULES
14	ELECTRICAL DETAILS



Vicinity Map
Not to Scale

DESIGNED: N. NELSON	REVISIONS
DRAWN: N. NELSON	NO: ---
CHECKED: S. BELCASTRO	BY: ---
DATE: 10/21/2019	NO: ---
	DATE: ---
	BY: ---

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

SS-19-04, 14TH & OAK LIFT STATION UPGRADE
COVER

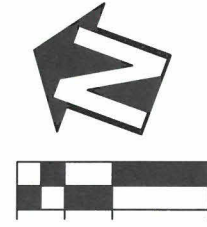
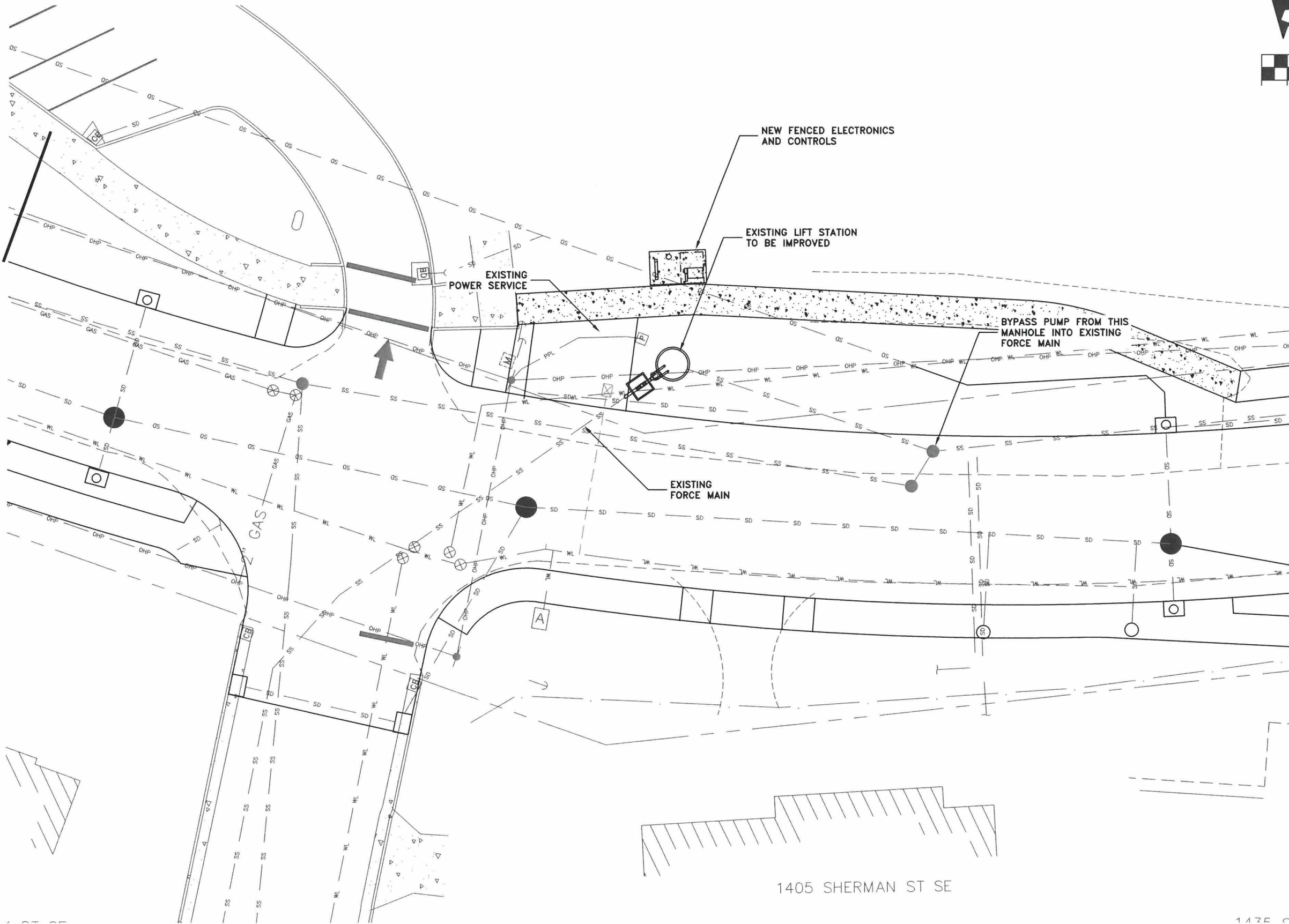
REGISTERED PROFESSIONAL
ENGINEER
82577PE
Nolan J. Nelson
OREGON
JUNE 29, 2009
NOLAN J. NELSON

EXPIRATION DATE: 12/31/2020

SHEET NO.	1 OF 14
PROJECT NO.	SS-19-04
FILE:	BASE.DWG

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS AND ASSOCIATED STANDARD DRAWINGS. THE CURRENT VERSION OF THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE CITY'S WEBSITE AT WWW.CITYOFALBANY.NET.
2. UTILITIES SHOWN ARE FOR REFERENCE ONLY. FOR A FIELD LOCATE, CALL THE UTILITIES NOTIFICATIONS CENTER AT 1-800-332-2344.
3. ALL EXCAVATIONS SHALL BE BACKFILLED OR STEEL SHEETED BY THE END OF EACH WORKING DAY.
4. OPERATING ACCESS FOR CITY MAINTENANCE PERSONNEL TO EXISTING AND NEW WATER VALVES AND MANHOLES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING ALL CONSTRUCTION ACTIVITIES.
5. CONTRACTOR SHALL VERIFY ALL EXISTING PIPE ELEVATIONS, PIPE DIAMETERS, AND PIPE MATERIALS AT CONNECTION AND ABANDONMENT LOCATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BEGINNING WORK.
6. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION PREVENTION SEDIMENT CONTROL (EPSC) MEASURES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE CITY OF ALBANY, AND VEGETATION/LANDSCAPING IS ESTABLISHED. FOR GUIDANCE, REFER TO THE CITY OF ALBANY EPSC MANUAL WHICH CAN BE FOUND AT www.cityofalbany.net.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO MAILBOXES DURING CONSTRUCTION AND RELOCATE MAILBOXES TO PERMANENT LOCATIONS AFTER CONSTRUCTION. DAMAGED MAILBOXES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE STANDARD DRAWINGS NO. 202A AND 202B.



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CHECKED: S. BELCASTRO	BY: --
DATE: 10/21/2019	DATE: --

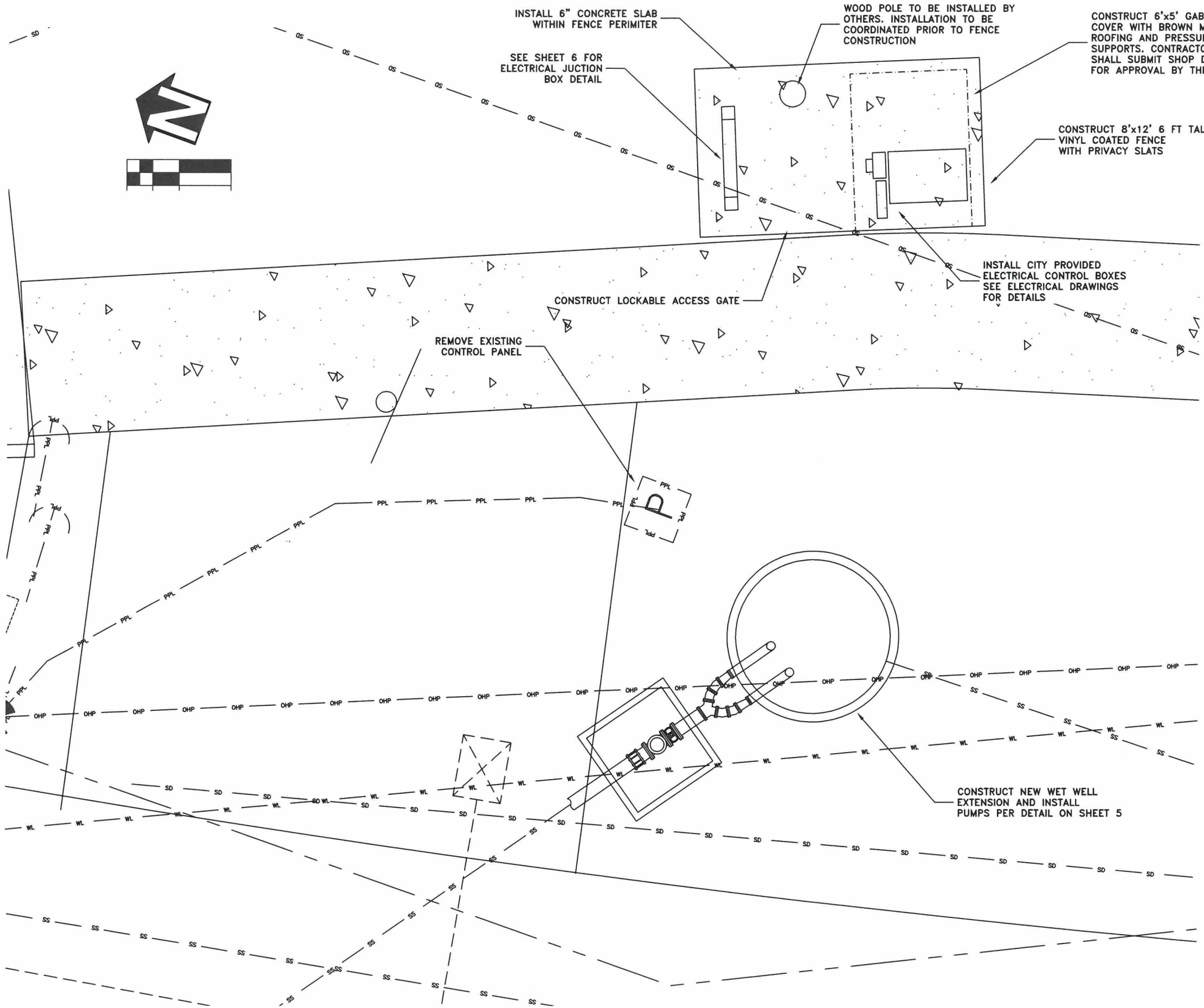
**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**

**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
SITE OVERVIEW**



EXPIRATION DATE: 12/31/2020

SHEET NO. 2 OF 14
PROJECT NO: SS-19-04
FILE: BASE.DWG



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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

SS-19-04, 14TH & OAK LIFT STATION UPGRADE
SITE PLAN

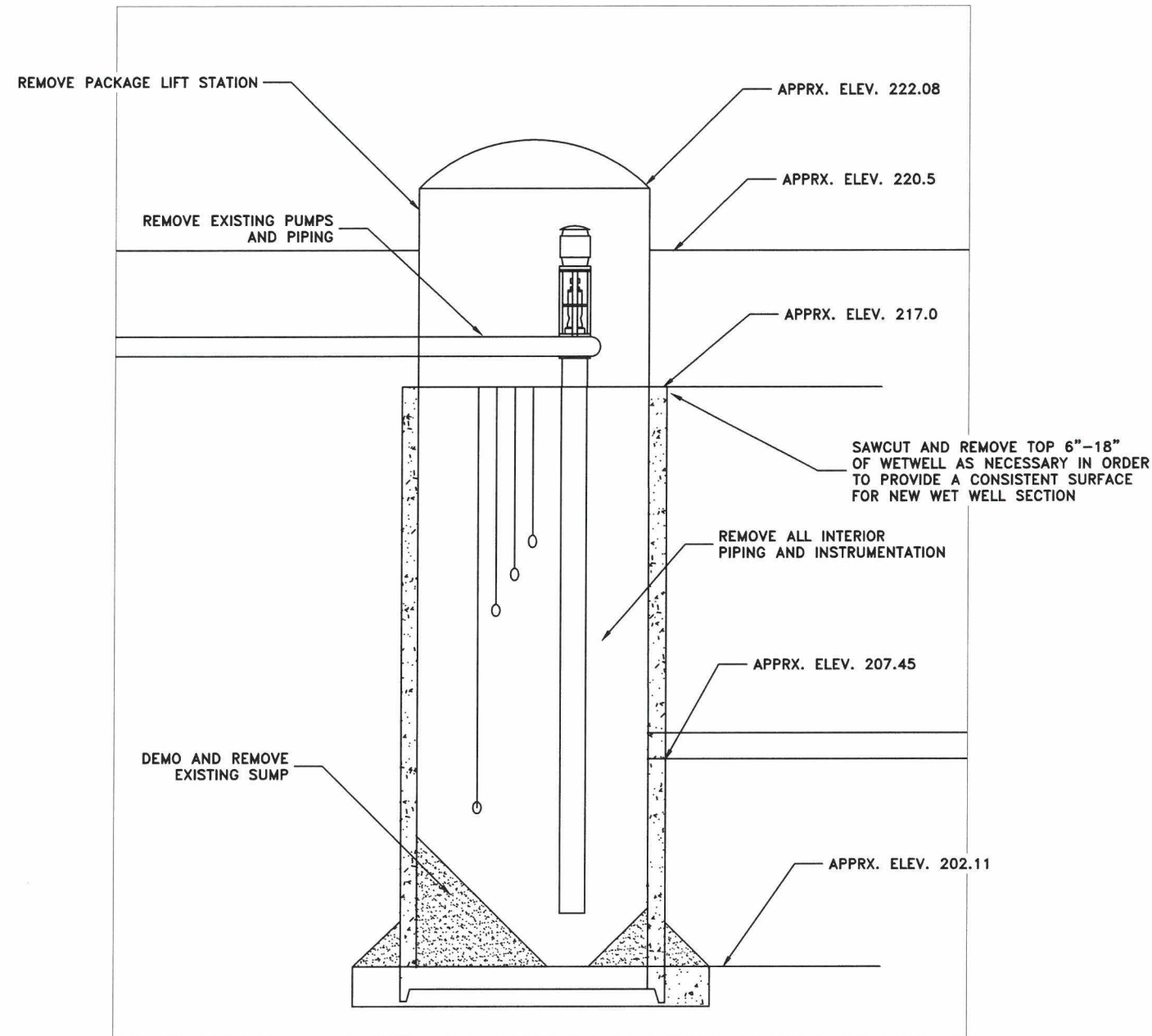
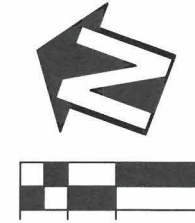


EXPIRATION DATE: 12/31/2020

SHEET NO. 3 OF 14

PROJECT NO: SS-19-04

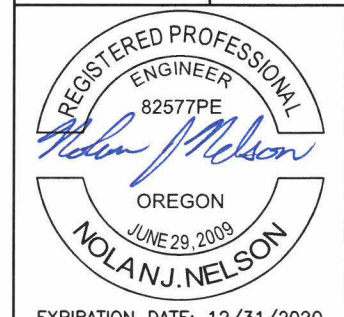
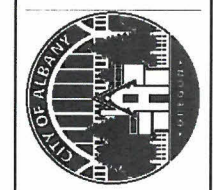
FILE: BASE.DWG



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DATE: 10/21/2019	---

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

SS-19-04, 14TH & OAK LIFT STATION UPGRADE
DEMOLITION

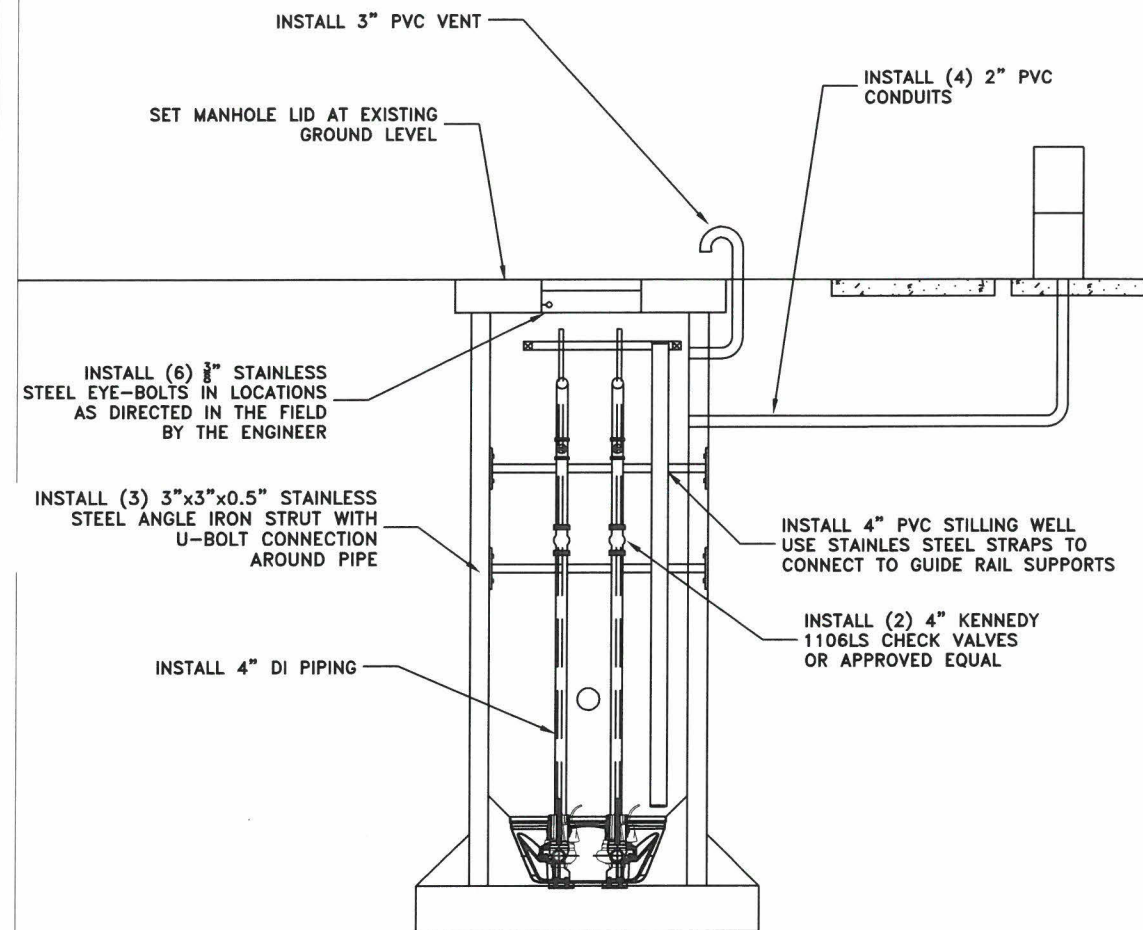
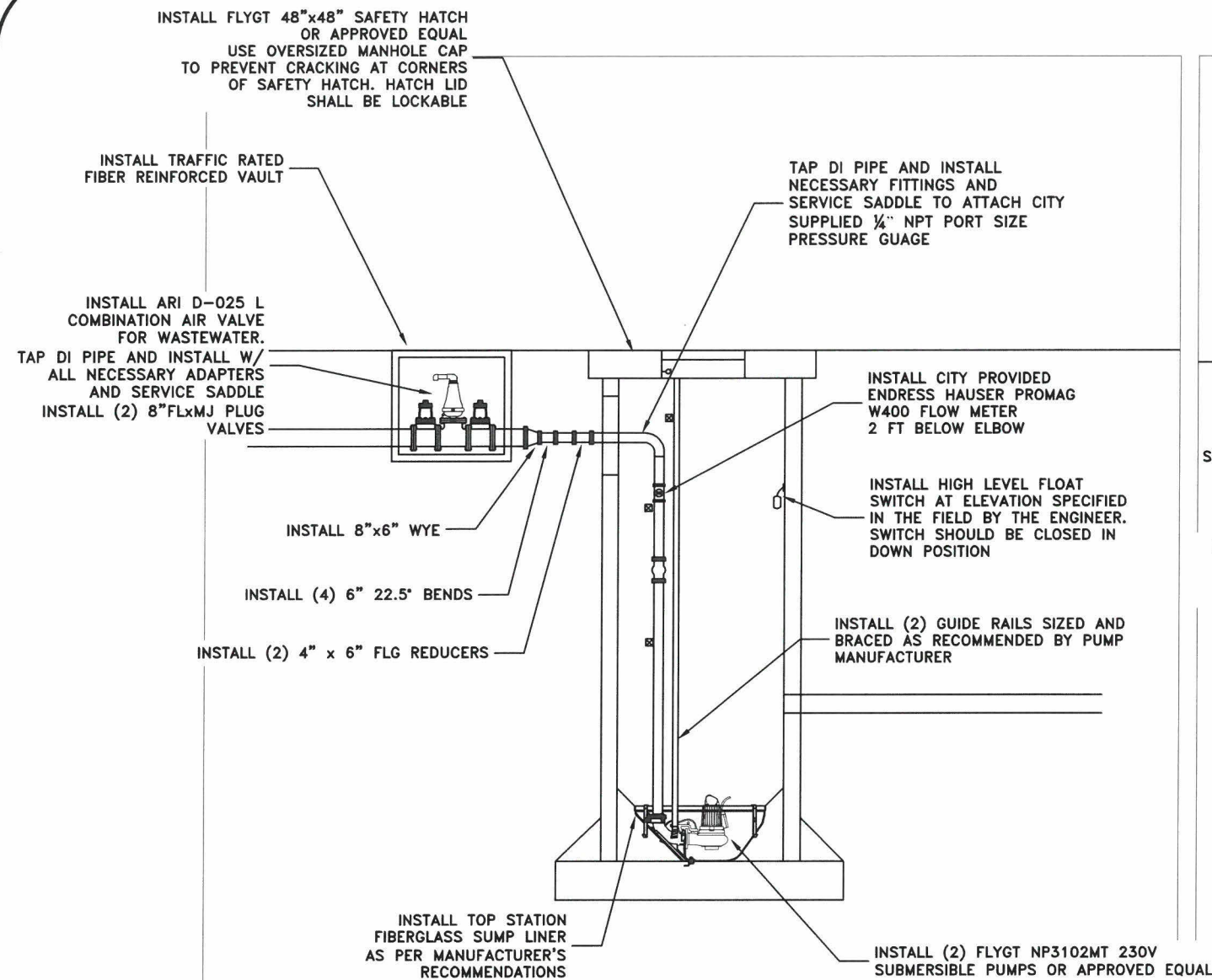


EXPIRATION DATE: 12/31/2020

SHEET NO. 4 OF 14

PROJECT NO: SS-19-04


FILE: BASE.DWG




NOTE: ALL PIPING IN THE WETWELL SHALL BE CLASS 52 DUCTILE IRON

DESIGNED: N. NELSON	REVISIONS	BY:
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CHECKED: S. BELCASTRO	DATE:	---
DATE: 10/21/2019		

**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**



**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
NEW STATION PROFILE**

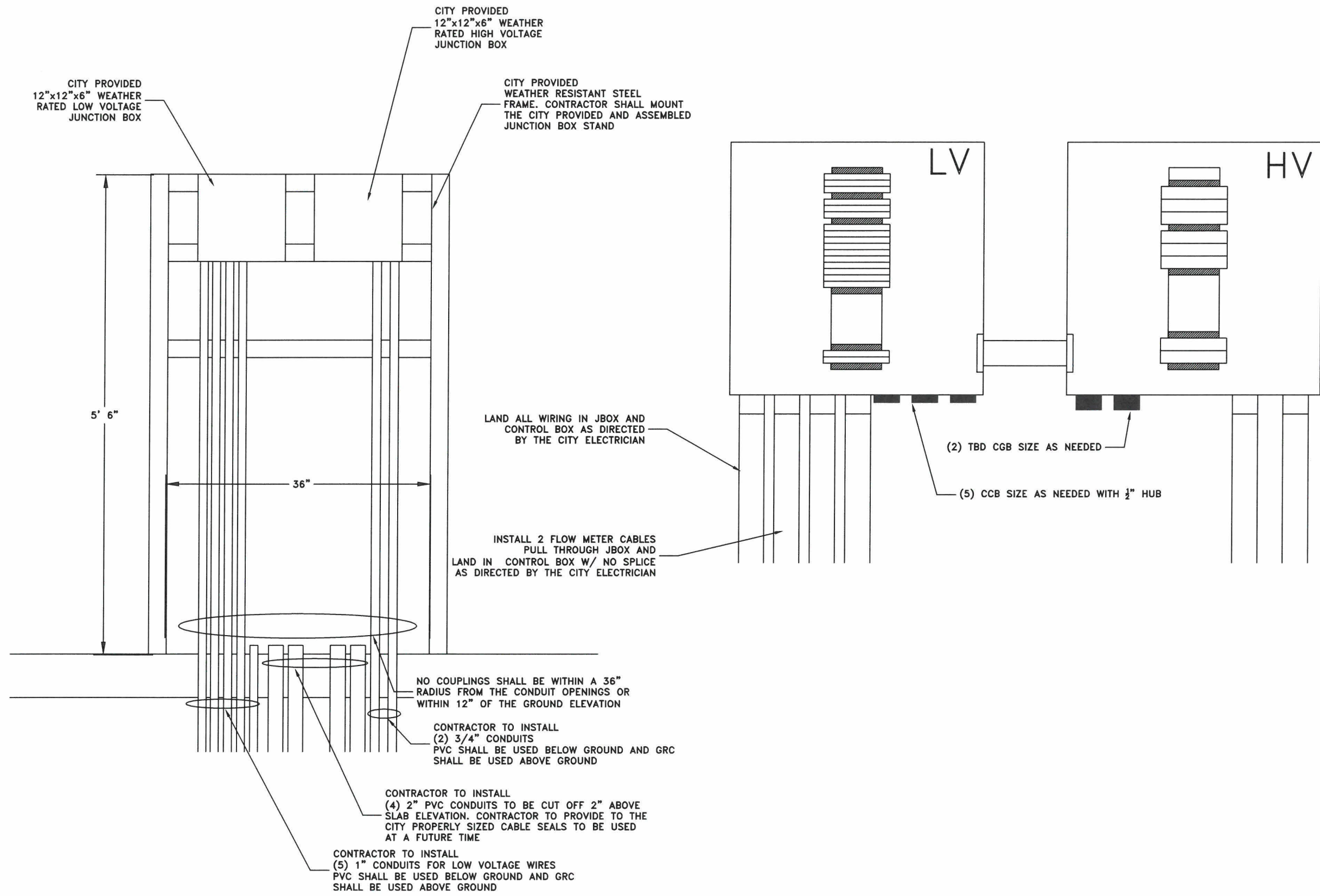


EXPIRATION DATE: 12/31/2020

SHEET NO. 5 OF 14

PROJECT NO: SS-19-04

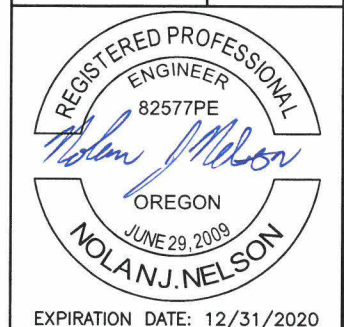
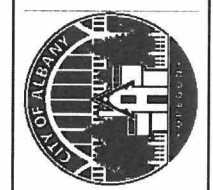
FILE: BASE.DWG



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DRAWN: N. NELSON			
CHECKED: S. BELCASTRO			
DATE: 10/21/2019			

**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**

**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
ELECTRICAL JUNCTION BOX DETAILS**



EXPIRATION DATE: 12/31/2020

SHEET NO. 6 OF 14

PROJECT NO: SS-19-04

FILE: BASE.DWG

Electrical Abbreviations, General Notes, & Symbol Legend

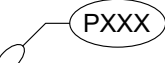
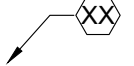
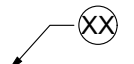
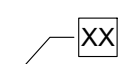
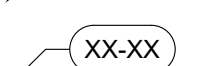
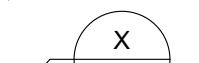
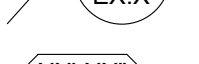
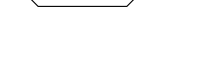

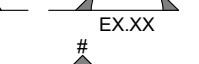
Abbreviations

A	AMPERE	MCA	MINIMUM CIRCUIT AMPACITY
AC	ALTERNATING CURRENT, AIR CONDITIONING UNIT	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MCP	MOTOR CIRCUIT PROTECTOR
AI	ANALOG INPUT	MDF	MAIN DISTRIBUTION FRAME
AIC	AVAILABLE INTERRUPTING CAPACITY	MHZ	MEGAHERTZ
AF	AMPERE FRAME / AMPERE FUSED	MISC	MISCELLANEOUS
AFC	ABOVE FINISHED CEILING	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MOC	MAXIMUM OVERCURRENT PROTECTION
AFG	ABOVE FINISHED GRADE		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	N	NEUTRAL
AO	ANALOG OUTPUT	NAC	NOTIFICATION APPLIANCE CIRCUIT
ARMS	ARC FLASH REDUCTION MAINTENANCE SYSTEM	N/A	NOT APPLICABLE
AT	AMPERE TRIP	NC	NORMALLY CLOSED
AV	AUDIO / VIDEO	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
		NEX	REPLACE EXISTING WIRING DEVICE AND FACEPLATE WITH NEW. BACK BOX AND CONDUIT SHALL REMAIN.
BAS	BUILDING AUTOMATION SYSTEM	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
BLDG	BUILDING	NTS	NOT TO SCALE
C	CONDUIT	OC	ON CENTER
CAT	CATEGORY	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CB	CIRCUIT BREAKER	OFOI	OWNER FURNISHED, OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	Ø	PHASE
CKT	CIRCUIT		
CPT	CONTROL POWER TRANSFORMER	PB	PULL BOX, PANIC BUTTON, PUSH BUTTON
CR	CONTROL RELAY	PE	PHOTO EYE
CU	COPPER	PNL	PANEL
		POE	POWER OVER ETHERNET
dB	DECIBAL	PTZ	PAN, TILT, ZOOM
DC	DIRECT CURRENT		
DI	DIGITAL INPUT	RD	LOCATION OF RELOCATED DEVICE / EQUIPMENT
DIM	DIMENSION	REX	REMOVE EXISTING DEVICE / EQUIPMENT
DIV	DIVISION	RF	RADIO FREQUENCY
DO	DIGITAL OUTPUT	RFI	REQUEST FOR INFORMATION
DTL	DETAIL	RR	REMOVE AND RELOCATE EXISTING DEVICE / EQUIPMENT
DWG	DRAWING		
		SLC	SIGNALING LINE CIRCUIT
EIP	ETHERNET IP	SPD	SURGE PROTECTION DEVICE
EL	ELEVATION	STD	STANDARD
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EOLR	END OF LINE RESISTOR		
ETR	EXISTING DEVICE SHALL REMAIN	T/M	THERMAL MAGNETIC CIRCUIT BREAKER TO BE DETERMINED
		TBD	TO BE DETERMINED
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION / MONITOR OUTLET
FF	FINISH FLOOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FLA	FULL LOAD AMPERES	TYP	TYPICAL
FT	FOOT, FEET		
FBO	FURNISHED BY OTHERS	UH	UNIT HEATER
		UG	UNDERGROUND
G, GND	GROUND	UL	UNDERWRITERS LABORATORIES
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
		UON	UNLESS OTHERWISE NOTED
HH	HAND HOLE	USB	UNIVERSAL SERIAL BUS
HP	HORSEPOWER		
		V	VOLTS, VOLTAGE
ID	IDENTIFICATION	VA	VOLT-AMPERE
IDC	INITIATING DEVICE CIRCUIT	VFD	VARIABLE FREQUENCY DRIVE
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	W	WATT, WIRE
IG	ISOLATED GROUND	WAN	WIDE AREA NETWORK
IT	INFORMATION TECHNOLOGY	WAP	WIRELESS ACCESS POINT
		WI-FI	WIRELESS FIDELITY
JB	JUNCTION BOX	W/	WITH
		W/O	WITHOUT
KAIC	THOUSAND AMPS INTERRUPTING CURRENT	WP	WEATHERPROOF
KCMIL	THOUSAND CIRCULAR MILS		
KVA	KILOVOLT-AMPERE	XFMR	TRANSFORMER
KW	KILOWATT		
		Y	WYE
LAN	LOCAL AREA NETWORK		
LED	LIGHT EMITTING DIODE	+72	MOUNTING UNITS EXPRESSED IN INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE.
LS	LIMIT SWITCH		
LSI	ELECTRONIC TRIP UNIT ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP	1P	ONE POLE
LSIG	ELECTRONIC TRIP UNIT WITH ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP, AND GROUND FAULT	2P	TWO POLE
LV	LOW VOLTAGE	3P	THREE POLE
		4P	FOUR POLE

General Electrical Notes

1. ALL LIGHTING BRANCH CIRCUITS SHALL BE 2#10, 1#10G IN 3/4" CONDUIT, UON.
2. ALL 20-AMP RECEPTACLE AND HARDWIRED BRANCH CIRCUITS SHALL BE 2#12, 1#12G IN 3/4" CONDUIT, UON.
3. ALL EXIT SIGNS SHALL BE WIRED TO THE LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING.
4. PROVIDE 0-10V DIMMING CONDUCTORS TO ALL LUMINAIRES WHICH ARE CONTROLLED BY 0-10V DIMMERS SHOWN ON THE DRAWINGS.

Annotation

- (N) INDICATES NEW EQUIPMENT.
- (E) INDICATES EXISTING EQUIPMENT TO REMAIN.
- (D) INDICATES EXISTING EQUIPMENT TO BE DEMOLISHED.
- (RP) INDICATES EXISTING EQUIPMENT TO BE REPLACED WITH NEW.
- (RR)/(RD) INDICATED EXISTING EQUIPMENT OR DEVICE TO BE REMOVED AND REINSTALLED.
-  CONDUIT & CONDUCTOR CALLOUT. REFER TO CONDUIT & CONDUCTOR SCHEDULE.
-  KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
-  KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
-  KEYED NOTE CALLOUT. REFER TO CORRESPONDING SHEET KEYNOTES.
-  MECHANICAL EQUIPMENT CALLOUT. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
-  DETAIL CALLOUT. REFER TO DETAIL AND SHEET AS INDICATED ON CALLOUT.
-  FIXTURE MOUNTING CALLOUT. HEIGHT ABOVE FINISHED FLOOR (A.F.F.)
-  EQUIPMENT CALLOUT. REFER TO NEMA CONNECTION SCHEDULE.
-  SECTION CALLOUT. REFER TO SECTION AND SHEET AS INDICATED ON CALLOUT.
-  ELEVATION CALLOUT. REFER TO ELEVATION AND SHEET AS INDICATED ON CALLOUT.

DESIGNED: EJC	REVISIONS				
DRAWN: EJC	NO.				
CHECKED: BEP	BY:				
DATE: 10/11/2019					

**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**

**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
ELECTRICAL SYMBOLS & ABBREVIATIONS**

REGISTERED PROFESSIONAL
ENGINEER
86683
Digital Signature
OREGON
MAY 08, 2012
BENJAMIN PERRY
E.
EXPIRES: 12-31-2020

SHEET NO. **7 OF 14**
PROJECT NO. **SS-19-04**
FILE: **BASE.DWG**

Electrical Symbol Legend

Power Distribution

- DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- SIMPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- GFCI DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- GFCI QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- TAMPERPROOF DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- TAMPERPROOF QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- SWITCHED DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
- NEMA SPECIAL RECEPTACLE, MOUNTED AT 18" AFF, UON. NEMA CONFIGURATION AS INDICATED.
- CENTER HATCHED RECEPTACLE TO BE WIRED TO EMERGENCY CIRCUIT.
- RECEPTACLE MOUNTED ON CEILING.
- DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- ENCLOSED CIRCUIT BREAKER.
- COMBINATION STARTER.
- FLOORBOX COMBINATION POWER & DATA.
- FLOORBOX POWER.
- POKETHRU COMBINATION POWER & DATA.
- POKETHRU POWER.
- POWER/DATA POLE.
- PANELBOARD SURFACE MOUNT.
- PANELBOARD FLUSH MOUNT.
- MAIN DISTRIBUTION PANEL.
- UTILITY CT METER.

Drawing Symbol Variables

- 3 THREE WAY SWITCH.
- 4 FOUR WAY SWITCH.
- #J QUANTITY OF JACKS AND HORIZONTAL CABLES.
- AV MOUNTED ADJACENT TO SMARTBOARD.
- C MOUNTED HORIZONTALLY AT 4" ABOVE COUNTERTOP.
- CL CLOCK.
- DR DUAL RELAY.
- E RED EMERGENCY SWITCH.
- EL ELEVATOR RECALL.
- LF LOW FREQUENCY.
- LV LOW VOLTAGE SWITCH.
- M MOTOR RATED TOGGLE SWITCH.
- O INTEGRAL OCCUPANCY SENSOR.
- P ADA PHONE, VERIFY HEIGHT WITH ARCHITECT / OWNER.
- TK MOUNTED IN TOE KICK OF CASEWORK.
- TV MOUNTED ADJACENT TO TV AT 60" AFF, UON.
- V VANDAL RESISTANT.
- WG WIREGUARD.
- WP WEATHERPROOF SWITCH.

Lighting

- TROFFER LUMINAIRE, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
- DOWNLIGHT LUMINAIRE, SURFACE, RECESS, OR PENDANT MOUNTED AS INDICATED ON THE DRAWINGS.
- UNDERCABINET LUMINAIRE.
- EMERGENCY BATTERY PACK LUMINAIRE, WALL OR CEILING MOUNTED.
- PENDANT MOUNTED LUMINAIRE.
- LINEAR WALL MOUNTED LUMINAIRE.
- BOLLARD LUMINAIRE.
- SITE LUMINAIRE POLE MOUNTED. NUMBER OF HEADS AS SHOWN.
- TRACK LUMINAIRE.
- SPOT LUMINAIRE.
- WALL MOUNTED LUMINAIRE.
- EXIT SIGN, WALL OR CEILING MOUNTED, SINGLE FACE WITH DIRECTIONAL CHEVRONS AS SHOWN ON DRAWINGS.
- EXIT SIGN, WALL OR CEILING MOUNTED, DOUBLE FACE WITH DIRECTIONAL CHEVRONS AS SHOWN ON DRAWINGS.
- HALF HATCHED LUMINAIRE TO BE WIRED TO EMERGENCY CIRCUIT.
- FULL HATCHED LUMINAIRE TO BE WIRED TO NIGHTLIGHT CIRCUIT.
- WALL WASH LUMINAIRE POINTED IN DIRECTION AS SHOWN

Raceways

- CONDUIT AND/OR CONDUCTORS INSTALLED ABOVE GRADE, CONCEALED IN WALL OR CEILING SPACE.
- CONDUIT AND/OR CONDUCTORS INSTALLED BELOW GRADE, BELOW SLAB.
- CONDUIT TURNED DOWN.
- CONDUIT TURNED UP.
- CONDUIT STUBBED AND CAPPED.
- CONDUIT DIRECT CONNECTION TO EQUIPMENT.
- FLEXIBLE CONNECTION TO EQUIPMENT.
- CONDUIT / WIRING CONTINUATION.
- HOMERUN TO PANELBOARD.
- CABLE TRAY. SIZE AND TYPE AS INDICATED ON DRAWINGS.

Low Voltage

- ETHERNET OUTLET MOUNTED AT 18" AFF, UON.
- COAXIAL OUTLET MOUNTED AT 18" AFF, UON.
- PHONE OUTLET MOUNTED AT 18" AFF, UON.
- LOW VOLTAGE OUTLET CEILING MOUNTED.
- WIRELESS ACCESS POINT CEILING MOUNTED.
- WIRELESS ACCESS POINT WALL MOUNTED.
- DIGITAL CLOCK.
- FLOORBOX DATA.
- POKETHRU DATA.

One-Line Diagram

- CIRCUIT BREAKER.
- DRAWOUT CIRCUIT BREAKER.
- ENCLOSED CIRCUIT BREAKER.
- MOTOR STARTER CONTACT.
- DISCONNECT SWITCH.
- ENCLOSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- ENCLOSED FUSED DISCONNECT SWITCH.
- CURRENT TRANSFORMER METER.
- FUSE, RATING AS SHOWN ON DRAWINGS.
- GENERATOR, CONFIGURATION AS INDICATED ON DRAWING.
- GROUND ROD.
- GROUND.
- MOTOR, RATED AS INDICATED ON DRAWINGS.
- NEMA CONNECTION.
- PANEL.
- MINI POWER CENTER.
- SHUNT TRIP.
- HEATER.
- REMOTE ANNUNCIATOR.
- BATTERY CHARGER.
- SURGE SUPPRESSION DEVICE.
- DIGITAL METER.
- VARIABLE FREQUENCY DRIVE.
- SOFT STARTER.
- TRANSFER SWITCH, WITH FUSES OR BREAKERS AS SHOWN ON DRAWINGS.
- TRANSFORMER.

Miscellaneous

- JUNCTION BOX (ROUND, SQUARE, OCTAGONAL).
- THERMOSTAT.
- RELAY.
- CORD REEL.
- MOTOR / EXHAUST FAN.
- CEILING FAN.
- UTILITY POLE.
- WEATHERHEAD.
- GROUND ROD.
- GROUND ROD WITH TEST WELL.
- SURFACE RACEWAY / WIREMOLD.
- FIRE RATED BACKBOARD.

Access Control & Security

- ACCESS CONTROL - DOOR CONTACT. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
- ACCESS CONTROL - CARD READER. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
- ACCESS CONTROL - ELECTRIC STRIKE. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
- ACCESS CONTROL - KEY PAD. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
- ACCESS CONTROL - MAGNETIC LOCK. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
- ACCESS CONTROL - REQUEST TO EXIT. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
- ACCESS CONTROL - SECURITY JUNCTION BOX. SIZED AS RECOMMENDED BY SECURITY SYSTEM MANUFACTURER.
- ACCESS CONTROL - CAMERA / INTERCOM.
- ACCESS CONTROL - PANIC BUTTON.
- SECURITY CAMERA - CEILING MOUNTED. PROVIDE ONE (1) CAT6.
- SECURITY CAMERA - WALL MOUNTED. PROVIDE ONE (1) CAT6.
- INTRUSION SENSOR - CEILING MOUNTED.
- INTRUSION SENSOR - WALL MOUNTED.
- INTRUSION KEYPAD.

Switches

- SINGLE POLE SWITCH - MOUNTED AT 42" AFF, UON.
- LOW VOLTAGE 0-10 VOLT DIMMING SWITCH - MOUNTED AT 42" AFF, UON.
- OCCUPANCY SENSOR - CEILING OR WALL MOUNTED.
- OCCUPANCY SENSOR POWER PACK.
- PHOTOCCELL - CEILING OR WALL MOUNTED.
- ADA DOOR PUSHPLATE.
- EMERGENCY STOP SWITCH, MUSHROOM HEAD.
- PUSHBUTTON, SINGLE.
- PUSHBUTTON, DOUBLE.

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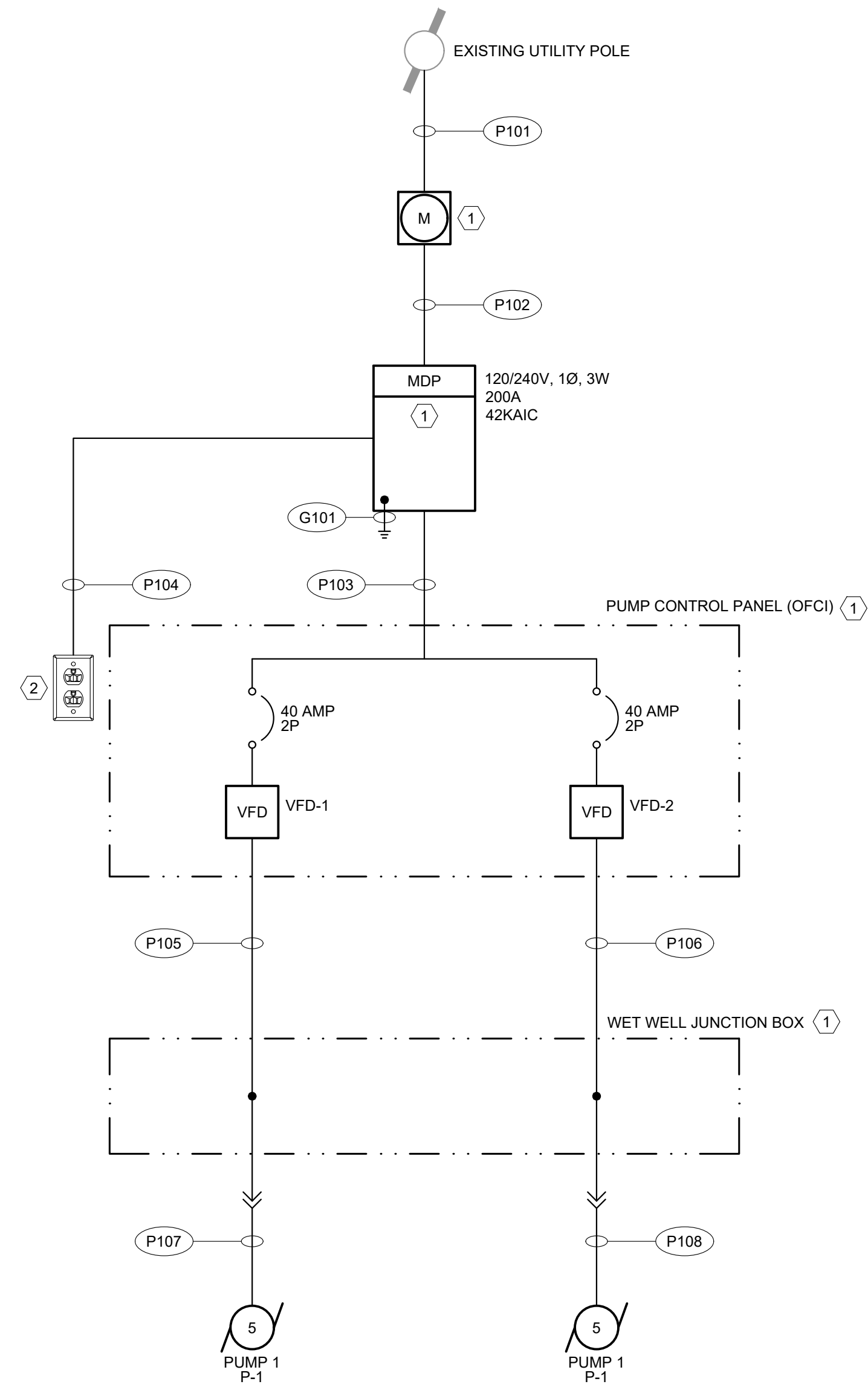
SS-19-04, 14TH & OAK LIFT STATION UPGRADE
ELECTRICAL SYMBOLS

REGISTERED PROFESSIONAL
ENGINEER
86683
Digital Signature
OREGON
MAY 08, 2012
BENJAMIN PERRY
E.

EXPIRES: 12-31-2020

- GENERAL SHEET NOTES**
1. TERMINATE ALL CONDUITS IN OFCI ENCLOSURES AS DIRECTED BY THE OWNER. COORDINATE THE INSTALLATION OF ALL CONDUIT TERMINATION LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- SHEET KEY NOTES**
1. OWNER FURNISHED, CONTRACTOR INSTALLED.
 2. PROVIDE WEATHERPROOF GFCI RECEPTACLE TO BE MOUNTED ON THE EXTERIOR OF THE PUMP CONTROL PANEL. COORDINATE LOCATION WITH OWNER.

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POWER CONDUIT / CONDUCTOR SCHEDULE

CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	SHEET KEY NOTE
	QUANTITY	SIZE	UNGROUND	GROUND	GROUNDING	CABLE	SPARE				
P101	1	3.0 INCH	-	-	-	-	-	EXISTING UTILITY POLE	CT METER	INSTALL PER PP&L STANDARDS	-
P102	1	2.0 INCH	1 - #3/0	1 - #3/0	-	-	-	CT METER	PANEL MDP	-	-
P103	1	2.0 INCH	2 - #8 1 - #12	-	1 - #10	-	-	PANEL MDP	PUMP CONTROL PANEL (PCP)	TWO PUMP CIRCUITS, ONE 120-VOLT LIGHTING CIRCUIT	-
P104	1	1.0 INCH	1 - #12	1 - #12	1 - #12	-	-	PANEL MDP	PCP RECEPTACLE	-	-
P105	1	0.75 INCH	3 - #12	-	1 - #10	-	-	VFD-1	WET WELL JUNCTION BOX	-	-
P106	1	0.75 INCH	3 - #12	-	1 - #10	-	-	VFD-2	WET WELL JUNCTION BOX	-	-
P107	1	2.0 INCH	-	-	-	1 - MSC	-	JUNCTION BOX (JB-HV)	PUMP (P-1)	PUMP CABLE	-
P108	1	2.0 INCH	-	-	-	1 - MSC	-	JUNCTION BOX (JB-HV)	PUMP (P-2)	PUMP CABLE	-
P109	-	-	-	-	-	-	-	-	-	-	-
P110	2	1.0 INCH	-	-	-	-	-	PUMP CONTROL PANEL	VALVE VAULT	SPARE FOR FUTURE	-

CONTROL CONDUIT / CONDUCTOR SCHEDULE

CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	SHEET KEY NOTE
	QUANTITY	SIZE	UNGROUND	GROUND	GROUNDING	CABLE	SPARE				
C101	1	1.0 INCH	-	-	-	1 - MSC	-	PUMP CONTROL PANEL	JUNCTION BOX JB-LV	FLOW METER	-
C102	1	1.0 INCH	-	-	-	1 - MSC	-	PUMP CONTROL PANEL	JUNCTION BOX JB-LV	FLOW METER	-
C103	1	1.0 INCH	2 - #14	-	1 - #14	2 - TSP	-	PUMP CONTROL PANEL	JUNCTION BOX JB-LV	EMERGENCY HIGH FLOAT, PRESSURE, AND RADAR	-
C104	1	1.0 INCH	-	-	-	-	-	PUMP CONTROL PANEL	VALVE VAULT	VIA LOW VOLTAGE JUNCTION BOX	-
C105	1	2.0 INCH	-	-	-	2 - MSC	-	JUNCTION BOX (JB-LV)	WET WELL	SPARE FOR FUTURE	-
C106	1	2.0 INCH	-	-	-	3 - MSC	-	JUNCTION BOX (JB-LV)	WET WELL	EMERGENCY HIGH FLOAT, PRESSURE SENSOR, AND RADAR	-
C107	1	2.5 INCH	-	-	-	-	-	PUMP CONTROL PANEL	RADIO ANTENNA POLE	PROVIDE 20-FEET OF VERTICAL CONDUIT RISER ON POLE AS DIRECTED BY CITY.	-

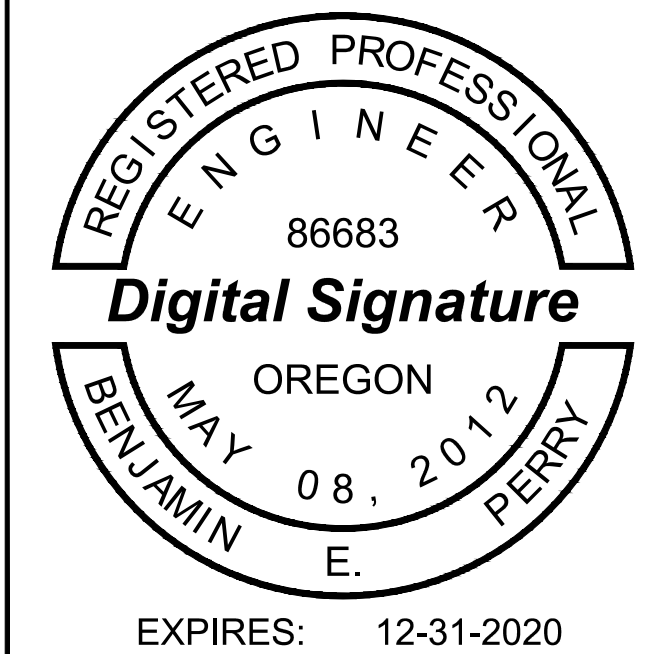
GROUNDING SCHEDULE

CONDUIT ID NO.	CONDUIT		CONDUCTOR					FROM	TO	DESCRIPTION	SHEET KEY NOTE
	QUANTITY	SIZE	POWER	NEUTRAL	GROUND	CABLE	SPARE				
G101	1	0.75 INCH	-	-	1 - #4	-	-	PANEL MDP	GROUNDING ELECTRODE SYSTEM	-	-
G102	1	0.75 INCH	-	-	1 - #6	-	-	RADIO TOWER	GROUNDING ELECTRODE SYSTEM	-	-

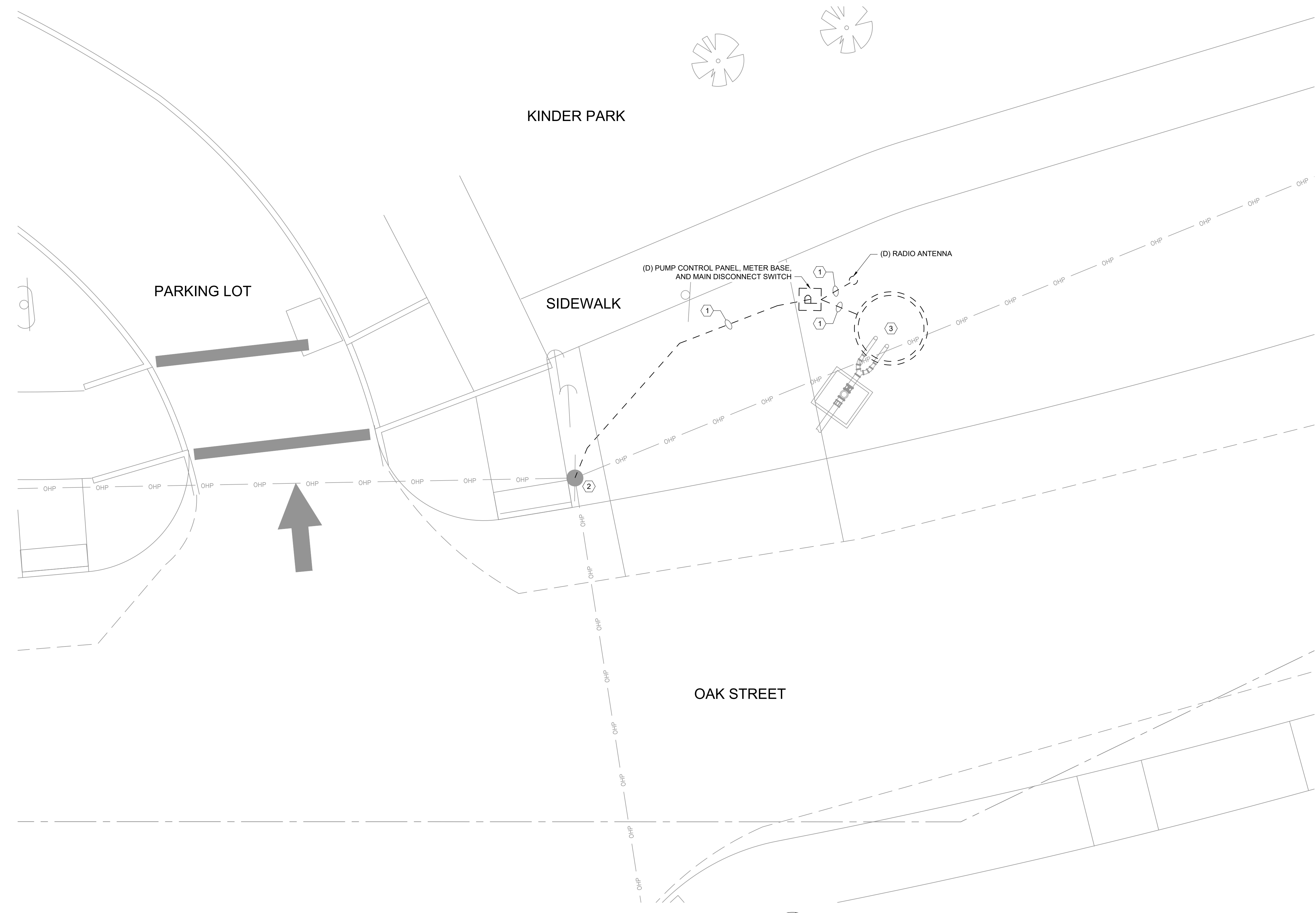
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**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
ONE-LINE DIAGRAM & CONDUIT SCHEDULE**




- SHEET KEY NOTES**
1. REMOVE CONDUCTORS IN CONDUIT TO SOURCE. REMOVE ALL EXPOSED CONDUIT. UNDERGROUND CONDUIT SHALL BE ABANDONED IN PLACE.
 2. EXISTING PP&L POLE AND TRANSFORMER.
 3. SEWAGE LIFT STATION - REMOVE ALL ELECTRICAL AND INSTRUMENTATION FROM THE DRY WELL AND WET WELL. REMOVE ALL CONDUIT AND WIRING TO SOURCE.



1 DEMOLITION SITE PLAN
 SCALE: 1" = 10'

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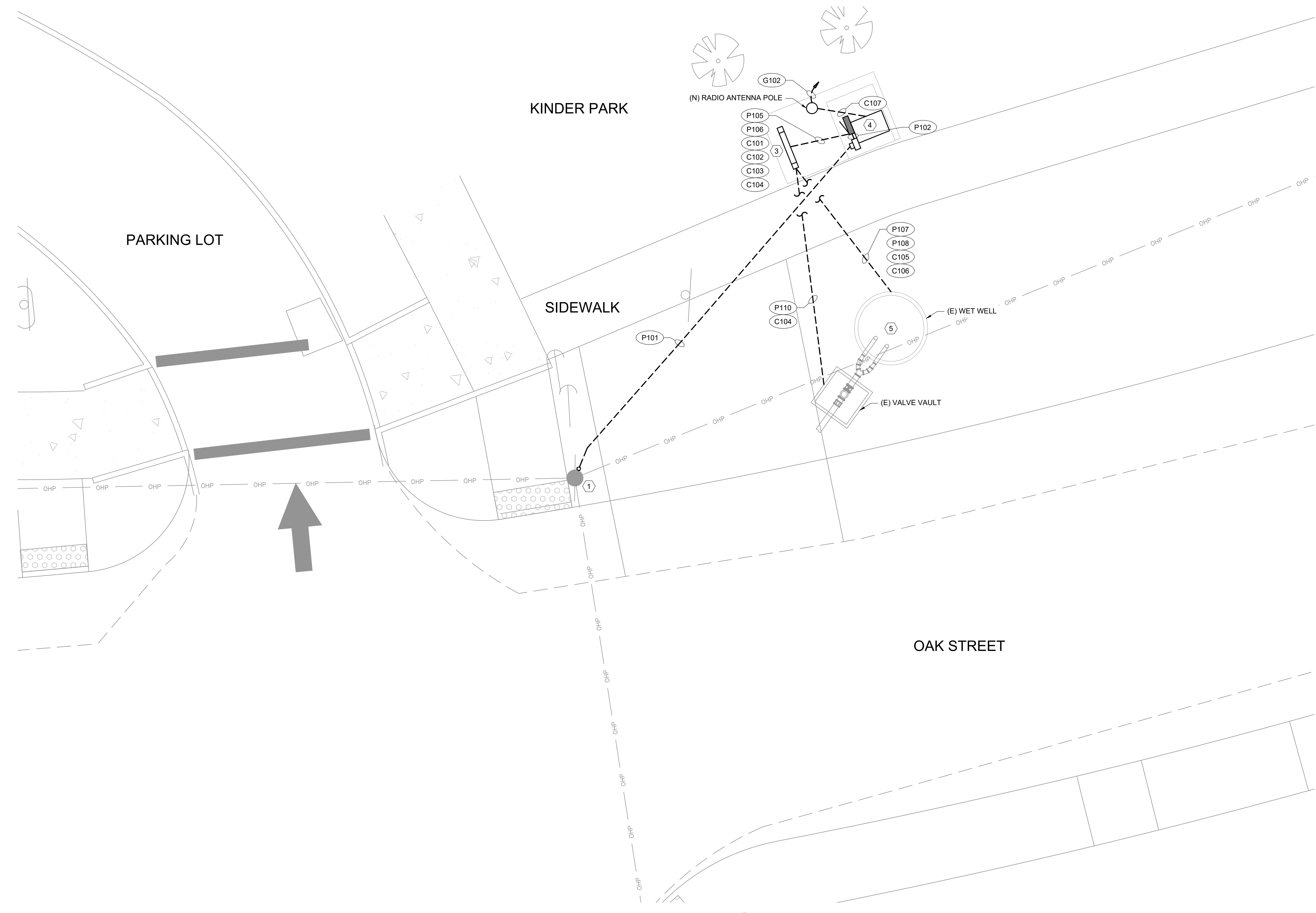


SS-19-04, 14TH & OAK LIFT STATION UPGRADE
DEMOLITION SITE PLAN

REGISTERED PROFESSIONAL
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 86683
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 MAY 08, 2012
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 E.
 EXPIRES: 12-31-2020


SHEET NO. 10 OF 14
 PROJECT NO. SS-19-04
 FILE: BASE.DWG

- SHEET KEY NOTES**
- EXISTING PP&L POLE AND TRANSFORMER.
 - OWNER FURNISHED OWNER INSTALLED.
 - WET WELL JUNCTION BOXES HB-HV AND JB-LV. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PUMP CONTROL PANEL.
 - PROVIDE EMERGENCY FLOAT SWITCH. INSTALL ALL OFCI INSTRUMENTS AND CABLES.



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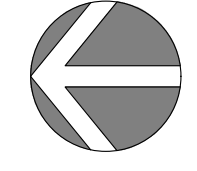
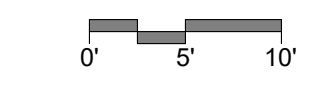
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ENGINEERING SERVICES**



**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
SITE PLAN**

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EXPIRES: 12-31-2020

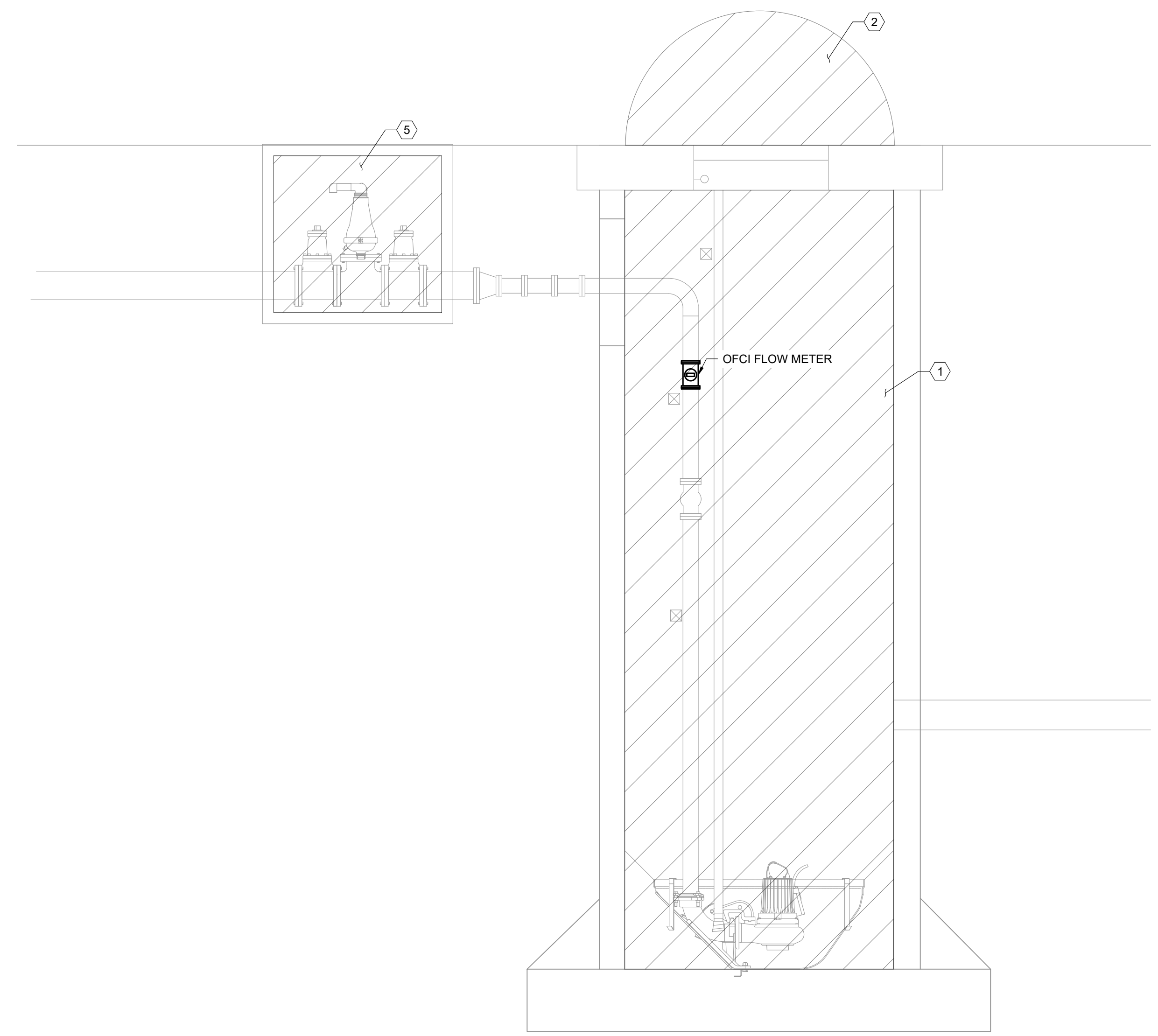
1 SITE PLAN
SCALE: 1" = 10'

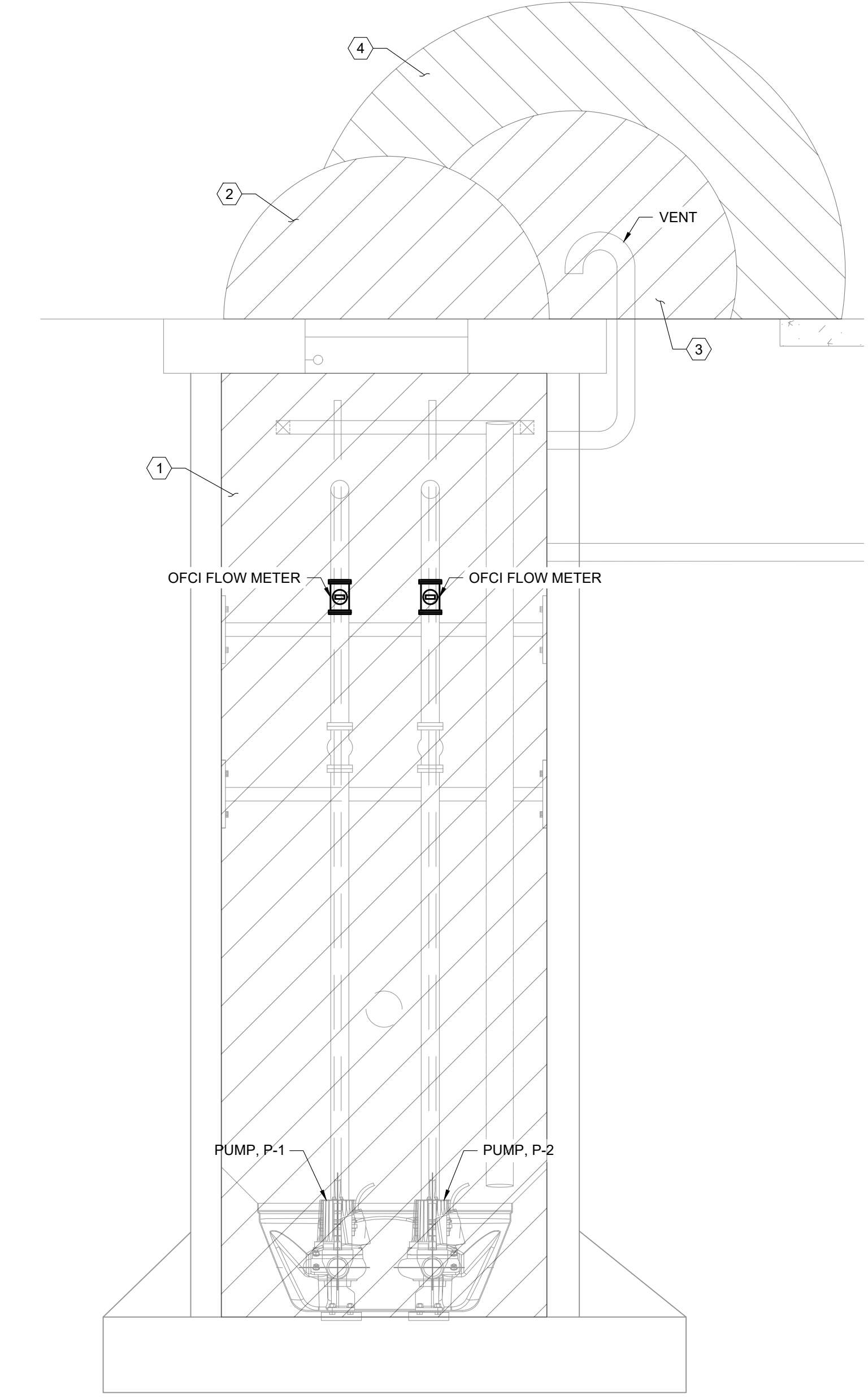
SHEET NO. 11 OF 14
PROJECT NO. SS-19-04
FILE: BASE.DWG

- SHEET KEY NOTES**
1. CLASS 1 DIVISION 1 WITHIN THE WET WELL.
 2. CLASS 1 DIVISION 2 WITHIN 3-FEET OF THE HATCH.
 3. CLASS 1 DIVISION 1 WITHIN 3-FEET OF THE VENT OPENING.
 4. CLASS 1 DIVISION 2 FROM 3-FEET TO 5-FEET OF THE VENT OPENING.
 5. CLASS 1 DIVISION 2 WITHIN THE VALVE VAULT.

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1 PUMP STATION CLASSIFIED AREA
SCALE: NTS

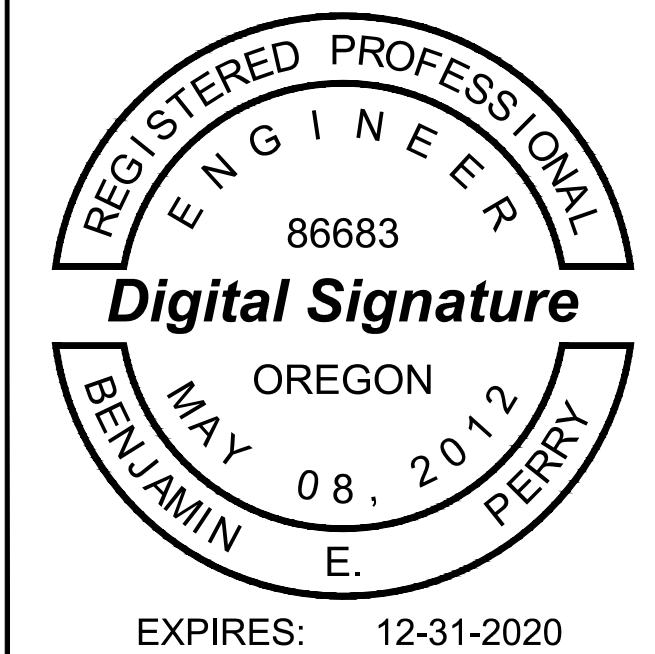


2 PUMP STATION CLASSIFIED AREA
SCALE: NTS

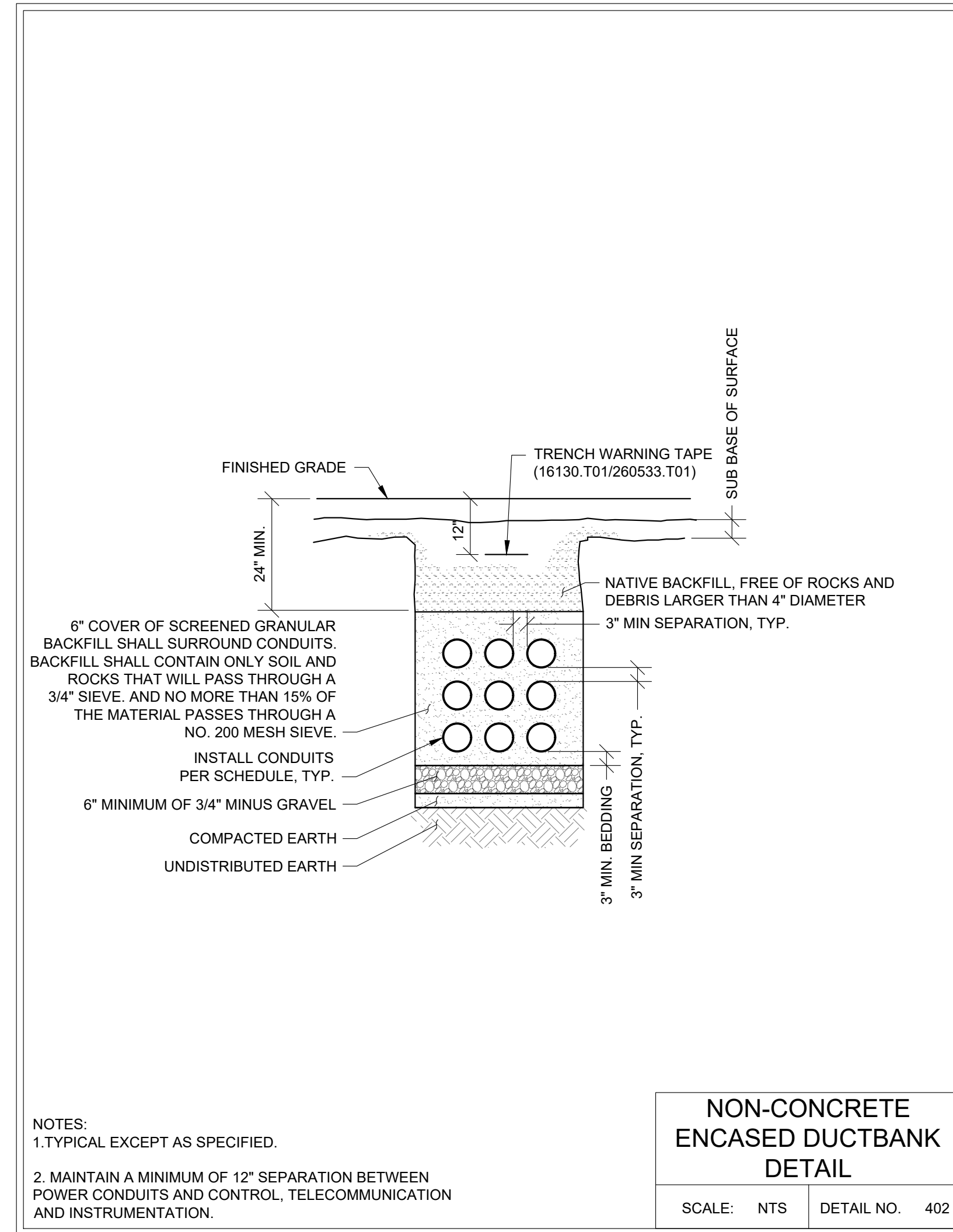
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ENGINEERING SERVICES**



**SS-19-04, 14TH & OAK LIFT STATION UPGRADE
PUMP STATION CLASSIFIED AREA**



SHEET NO. 12 OF 14
PROJECT NO. SS-19-04
FILE: BASE.DWG

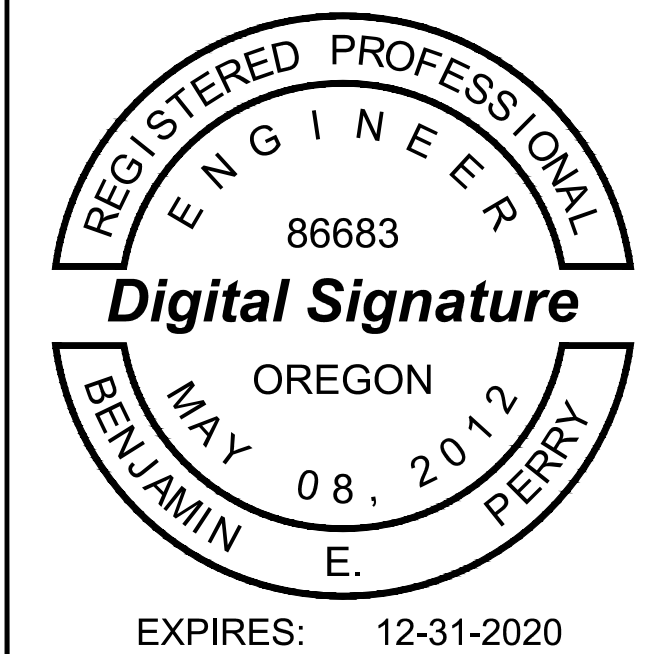


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REVISIONS	
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SS-19-04, 14TH & OAK LIFT STATION UPGRADE
ELECTRICAL DETAILS



SHEET NO. 14 OF 14
PROJECT NO. SS-19-04
FILE: BASE.DWG