THO-13 WF INST RCL

GENERAL SPECIFICATIONS

Scope of Work

PROJECT SUMMARY:

INSTALL NEW RECLOSER AT GRID # 260267-197118, HANSON RD, E OF SERENITY LN.

INCLUDE POWER SUPPLY UNIT IF SECONDARY VOLTAGE NOT READILY AVAILABLE.

ENSURE ALL NEW INSTALLED RECLOSERS, WITHIN THIS SCOPE, ARE SCADA-ENABLED TO PROVIDE SYSTEM OPERATORS VISIBILITY AND REMOTE CONTROL.

NON-STORM CUSTOMER MINUTE INTERRUPTIONS SAVED: 7,733
NON-STORM CUSTOMER INTERRUPTIONS SAVED: 83
NON-STORM OUTAGES SAVED: 0.40

PROJECT JUSTIFICATION:

IN PSE'S SERVICE TERRITORY, IT IS PROJECTED THAT 60% OF THE OUTAGES ON OVERHEAD SYSTEMS ARE TEMPORARY IN NATURE, SUCH AS A LIMB FALLS THROUGH THE PRIMARY LINE MAKING CONTACT ALONG THE WAY. RECLOSERS ARE DEVICES THAT WILL PROVIDE AN INSTANTANEOUS OPERATION AND THEN AFTER A PERIOD OF TIME RECLOSE. IF THE FAULT IS TEMPORARY THEN DOWNSTREAM CUSTOMERS WILL SEE THE BRIEF DROP AND PICK, BUT IF PERMANENT, THE RECLOSER WILL LOCK OPEN AND THE CUSTOMERS UPSTREAM WILL BE SAVED AN OUTAGE.

CONSTRUCTION CRITERIA:

INSTALL GRID NUMBER BOARDS ON PSE POLES WHERE THEY'RE MISSING. INSTALL NEW OH SWITCH NUMBER BOARDS IF NOT PRESENT.

PROVIDE PLANNER WITH PRELIMINARY AND FINAL WORK SKETCHES AND NOTIFY PLANNER WHEN THE PROJECT IS SCHEDULED, THEN COMPLETE. KEEP PLANNER NOTIFIED OF CORRESPONDENCE WITH ROW.

General

- All work is to be completed per PSE Standards & Practices. Copies of all PSE Standards are available upon request.
- Work sites shall be kept clear of debris and all construction materials; equipment and packing shall be removed daily.
- Return all unused and removed poles, transformers and hardware to PSE, storeroom. All copper shall be coiled and returned the day it is removed from the poles. Remove all unused pins and insulators.
- Return all streetlights, area lights and floodlights to Sumner yard.

Preconstruction

- Notify appropriate city, County or DOT authorities 48 to 72 hours, or as required by permitting agency, in advance of starting work in Right-of-way involving a Permit.
- All system switching shall be approved by **System Operations (425-882-4652)** a minimum of 48 hours in advance.
- Notify customers of all outages 48 hours in advance.

Work Drawings & Documents

- Field design changes shall be approved by PSE Project Manager or Engineer.
- Mark all field changes, equipment ID numbers and Underground cable information in red on Foreman's copy of worksketch.
- Return one Foreman's copy of worksketch to Project Manager at completion of job.
- When permits are required, a copy shall be available on work site at all times.

Safety

- Refer to PSE standards 6275.3000 and 6275.6000 for system ground requirements.
- Refer to PSE standards 6275.9050 for personal protective grounding requirements.
- Refer to PSE standards 6275.9150 for vehicle grounding and barricading requirements.
- Proper line clearances shall be taken at the beginning, and released at the end, of each work day, or as otherwise instructed by the System Operator.
- Provide signs, barricades, and traffic control in conformance with permit regulations.
- Utilize flagging and other vehicle traffic control as necessary and in conformance with local traffic regulations.
- Maintain traffic flow as required by permitting agency.

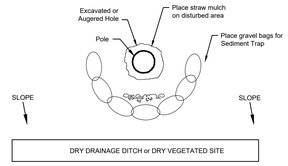
Erosion & Sediment Control
- Refer to PSE standards 0150.3200 for minimum requirements.
- Comply with all requirements of permitting agency.
- Installed erosion & sediment devices shall be maintained until vegetation has been re-established or disturbed soil has been otherwise permanently stabilized.

Joint Facilities
- Coordinate with Communication Companies for transfers.

OVERHEAD CONSTRUCTION

Poles & Structures
- Poles are to be installed or relocated as staked. Unless otherwise noted, all pole location measurements are from the center of the pole.
- All new poles set shall be the class indicated on the sketch, or better. Do not set a lower class pole than specified.
- Install ground plate assembly on all new poles. Install Switch Ground Assembly per standard specification 6014.1000 at new gang operated switch locations.
- Install grid numbers on all new and existing poles as shown on sketch.
- Straighten existing poles as indicated or as necessary.
- Treat all field-drilled poles with copper napthenate wood preservative.
- Remove old poles after communication companies have transferred off and return to PSE storeroom. Fill and crown pole holes and restore area similar to adjacent landscaping.

Conductors & Equipment
- Transfer all overhead and underground primary, secondary and service conductors and guys to new poles set, unless otherwise indicated on this sketch.
- Transfer existing transformers to new poles unless otherwise indicated on this sketch.
- Use stirrups to connect all overhead and underground primary taps, and all transformers. Install at all sites being worked within the scope of the project where they are currently missing.
- For 12vK construction, install avian protection with #4 CU-covered jumpers (MID#9998076) and #4 SD Aluminum covered tie-wire (MID#8309760). For 34vK construction use bare wire primary jumpers with pre-formed helical-grip ties and avian protection devices when required per Std. 6015.2000. Jumpers for poles that are double dead ended with tree wire can be either the same size tree wire conductor or covered CU.
- Apply grit inhibitor on all Ampact, stirrup, and dead-end connections.
- Connect primary taps and transformers to same phase as existing unless otherwise shown on the drawing.
- All neutral connections to be made with solid compression connectors. Connect all pole grounds to common neutral.
- Use Load-interrupter cutouts (with arc shields) on all primary overheads and underground taps with fused protection above 40T.
- Install Wildlife Protectors on all transformers.



TOP VIEW

UTILITY POLE EROSION CONTROL DETAIL

Not to scale — *Drainage ditches* or *Dry vegetated sites*

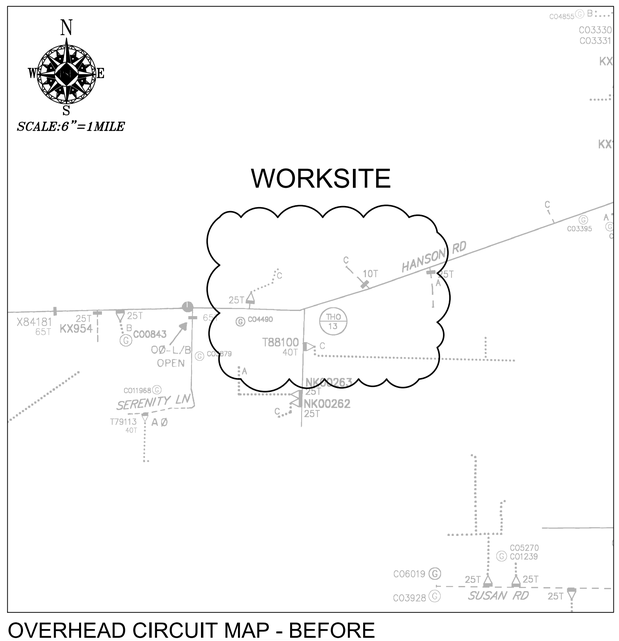
LEGEND

	NEW CONDUCTOR AND OR TRENCH LINE
	EXISTING CONDUCTOR TO BE REMOVED OR ABANDONED
	NEW POLE
	EXISTING POLE
OR	DISCONNECT - FUSED
OR	DISCONNECT - UNFUSED
	OVERHEAD JUMPER CONNECTION
	OVERHEAD TRANSFORMER
OR	CONDUIT RISER
	STREET LIGHT
	DOWN GUY
	ENERGY CUSTOMER DEMAND POINT
	PULL VAULT OR SPLICE VAULT
J	JUNCTION VAULT/JUNCTION BOX
	PADMOUNT TRANSFORMER
	TOTAL UNDERGROUND TRANSFORMER
	SECONDARY HANDHOLE
R	RECLOSER

EROSION & SEDIMENT CONTROL REQUIREMENTS

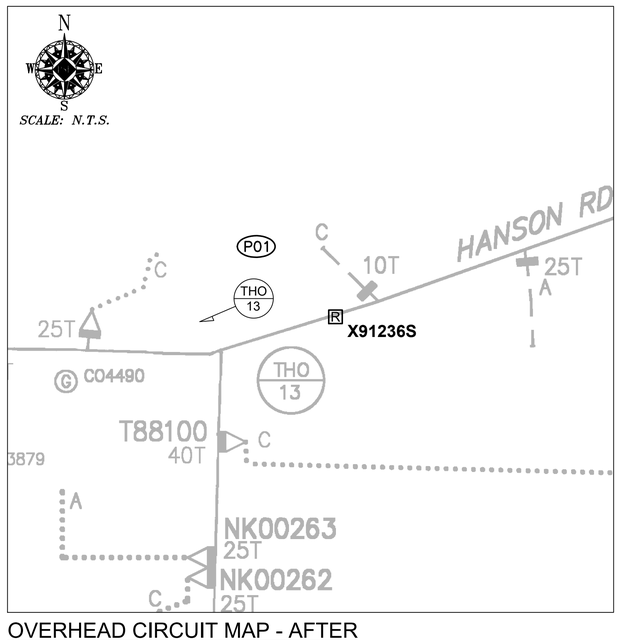
EROSION & SEDIMENT CONTROL SHALL BE PER PSE STANDARD PRACTICE 0150.3200 TECHNIQUES FOR TEMPORARY EROSION & SEDIMENT CONTROL & ANY ADDITIONAL LOCAL JURISDICTION REQUIREMENTS.
(LOCAL JURISDICTIONS MAY HAVE ADDITIONAL REQUIREMENTS INCLUDING NOTES DETAILING WHERE EROSION OR SEDIMENT CONTROL STRUCTURES ARE TO BE INSTALLED, CROSS SECTION DETAILS OF THE TYPICAL EROSION STRUCTURES, & SPECIAL REQUIREMENTS FOR WORK IN SENSITIVE AREAS.)

KITTITAS CO CDS
RECEIVED
07/03/2024



OVERHEAD CIRCUIT MAP - BEFORE

SCALE: 6" = 1 MILE



OVERHEAD CIRCUIT MAP - AFTER

SCALE: N.T.S.

FOREMAN (CHECK BOX WHEN COMPLETED)

- ☐ PSE Equipment LOCKED/SECURED & Work Area left in CLEAN/SAFE Condition.
- ☐ Grid, Cable, and Switch numbers INSTALLED & VERIFIED.
- ☐ Field Changes RED-LINED on As-built.
- ☐ Material VERIFIED and CHANGES noted on Paperwork.
- ☐ Total PRIMARY Cable noted on As-built.
- ☐ Company ID#'s RECORDED in correct location on As-built.
- ☐ Indicate correct FUSE SIZE on As-built & VERIFY proper PHASE.
- ☐ Deviations noted on the As-built and their reason.

☐ I certify that the work performed meets PSE's standards and procedures and that all quality requirements are met.

Foreman's Signature _____

Print Name _____ Date _____

PROJECT PHASE	NOTIF#	ORDER#
PWR Superior	11964729	101169464
OH Expense	N/A	583....
UG Expense	N/A	584....
OH Expense	N/A	593256388
UG Expense	N/A	594....
Removal	N/A	108153276
CABLE TV		
PHONE		

Project Manager Contact Information:

Manager: DONNA ELSWORTH
Cell Phone: 425-681-4338
E-Mail: DONNA.ELSWORTH@PSE.COM

"Locates Required" (Yes) No
"Outages Required" (Yes) No
"Flagging Required" (Yes) No

Vicinity Map
LAT/LONG: 46.9858/-120.61671

Owner / Developer Contact Info

N/A
N/A
N/A
ATTN: FREMONT AGUINALDO 425-396-3818 office

For contacts below dial 1-888-CALL PSE (225-5773)

CALL 811 TWO BUSINESS DAYS BEFORE YOU DIG

THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

REAL ESTATE/EASEMENT	PERMIT
N/A	KITTITAS COUNTY

REV#	DATE	BY	DESCRIPTION
3			
2			
1			

COUNTY	Emer Sect	Gas Wk Ctr	POWER WK CTR
KITTITAS	N/A	N/A	QCKTTE
1/4 SEC	OP MAP		PLAT MAP
SE 05-17-18 E	N/A		277-239
U-MAP NO (POWER)	OH CKT MAP	UG CKT MAP	CIRCUIT NO
1718E020	1718E036	1718E019	THO-13

FUNCTION	CONTACT	PHONE NO	DATE
PROJECT MGR	D. ELSWORTH	425-681-4338	
ENGR - POWER	A. CRAWFORD	425-424-7982	
ENGR - GAS	N/A	N/A	
DRAWN BY	ACT-JS	918-899-7502	01/27/24
CHECKED BY			
APPROVED BY	Andrea Crawford	425.559.5712	5/31/2024
FOREMAN #1			
FOREMAN #2			
MAPPING			

JOINT FACILITIES ARRANGEMENTS

UTILITIES	CHARTER COMMUNICATIONS	BLACK ROCK CABLE	N/A	N/A
CONTACT	N/A	N/A	N/A	N/A
PHONE#	360-258-5196	N/A	N/A	N/A

PUGET SOUND ENERGY

DESIGN BY: Actalent Services

THO-13 WF INST RCL
INSTALL RECLOSER
260267-197118, 2440 HANSON RD, ELLENSBURG, WA 98926

INCIDENT	MAOP
N/A	N/A
Gas Order	Elect Order
N/A	101169464
SCALE	PAGE
AS NOTED	1/2

101169464

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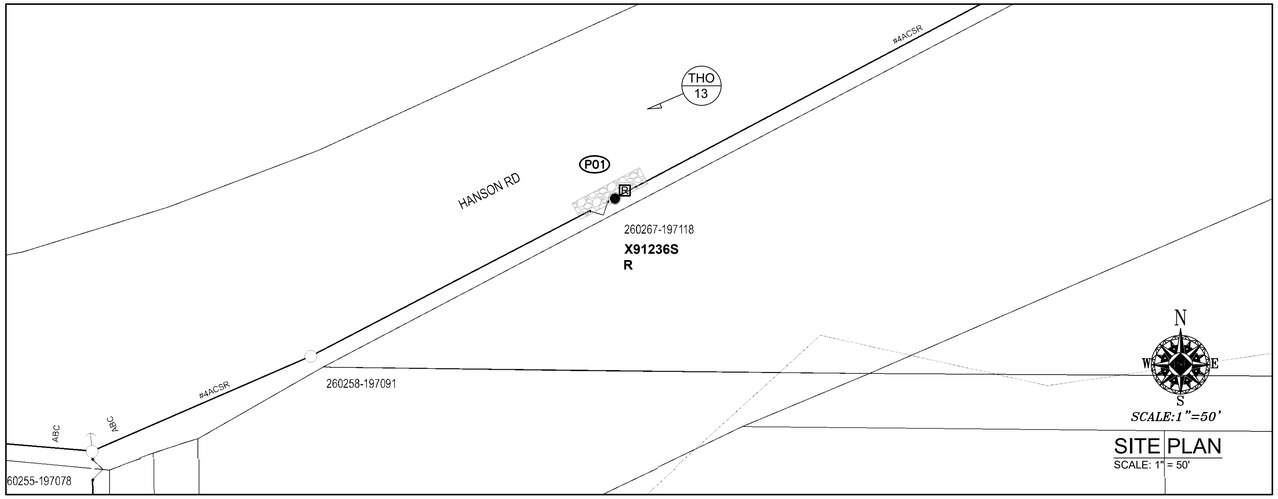
THO-13 WF INST RCL

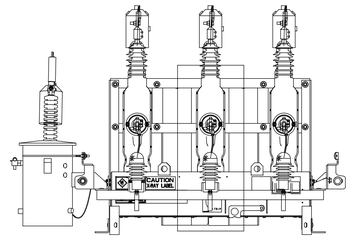


SITE SPECIFIC NOTES:

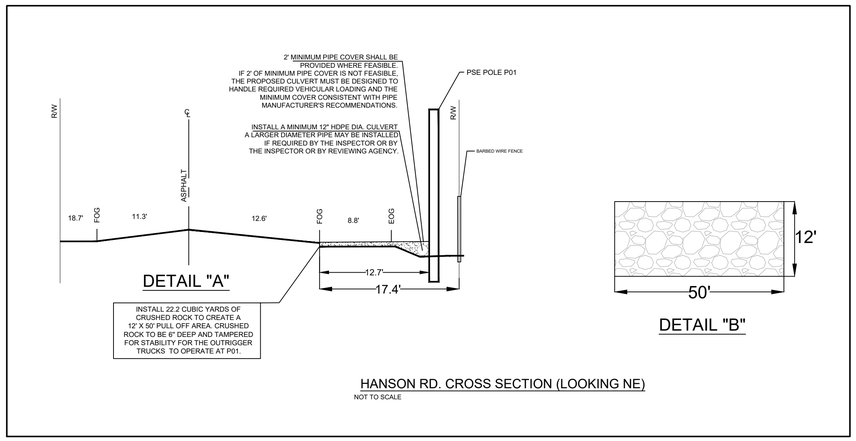
P01 260267-197118 (1964 40' CL-4, ∠1°, AVG SPAN 370')

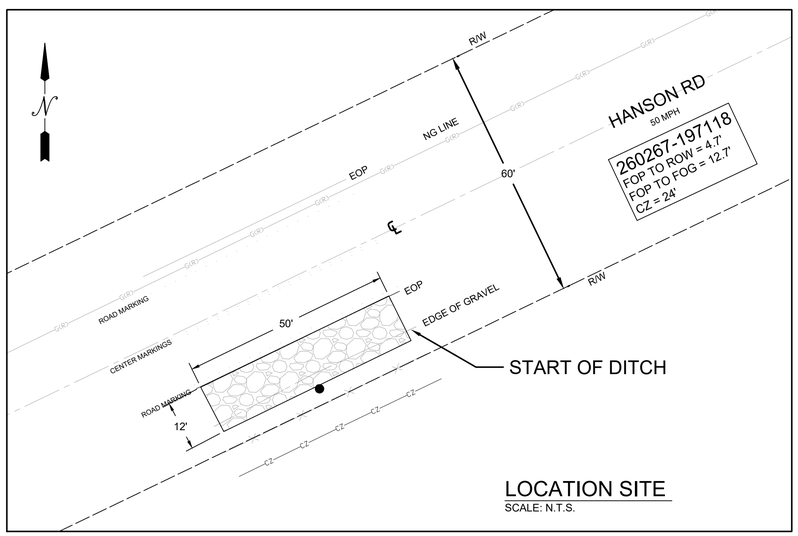
FOP TO EOP = 12.7'

-REPLACE POLE WITH 50' CL-H1 FRP POLE	(6010.1000, 9948020)	2-23
-SET POLE 2 FT. (NE) OF EXISTING		
-INSTALL 3Ø DBL DE	(6033.1046, DDE2310)(9948041)	
-UTILIZE (2) FRP HEAVY 11' ARMS	(9948054)	
-INSTALL (6) 15KV NYLON VISE TOP INS	(9999069)	
-INSTALL RECLOSER WITH CPT, 12KV	(6023.1021, REC15GVWTSW)	2-24N x2
-INSTALL PT ON ROADSIDE OF RACK	(9946939)	1-8A
-MOUNT RACK ON LOAD SIDE OF POLE		
-INSTALL (3) LIGHTNING ARRESTOR COVERS FOR AVIAN PROTECTION	(9998115)	
-INSTALL (9) DISC SW 600A 15 KV C/O; w WLDLF CVRS FOR AVIAN PROTECTION	(9995955, 9947360)	
-INSTALL(1) XFMR POLYMER BUSHING COVER FOR AVIAN PROTECTION	(9996101)	
-INSTALL SEL-651RA CONTROLLER	(9999667)	
-INSTALL RECLOSER WITH VOLTAGE SENSORS ON LOAD SIDE (WSW) OF POLE	(9946807)	
-INSTALL CONTROL & POWER SOURCE CABLES	(9996186)	
-INSTALL VOLTAGE SENSING CABLE	(9999670)	
-PLACE METAL VOLTAGE CORRECTION PLACARD INSIDE RELAY ENCLOSURE		
-INSTALL TAP FOR PT XFMR ON SOURCE SIDE		
-INST XF OH1 12.5 120/240 1B	(9946939)	
-PLACE METAL VOLTAGE CORRECTION PLACARD INSIDE RELAY ENCLOSURE		
-TOP POLE 1' ABOVE COMMS, REMOVE AFTER COMMS TRANSFER AS NEEDED		2-129
-INSTALL SW# X91236S		



15.5kV Viper Recloser
Not To Scale 9946807

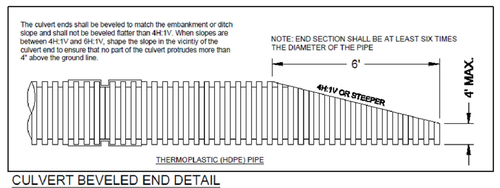




INSTALLATION

☒**RECLOSER** ☒ **CONTROLLER**

Installed at site: P01
Grid Number: 260267-197118
Recloser Material ID#: 9946807
Controller Material ID#: 9999667
Foreman to redline the following information
Recloser Company ID#: _____
Controller Company ID#: _____



CULVERT BEVELED END DETAIL
NOT TO SCALE

STANDARDS AND SPECIFICATIONS

9-05.2(8) Perforated Corrugated Polyethylene Underdrain Pipe (12-Inch Through 60" Inch Diameter Maximum), Couplings, and Fittings Perforated corrugated polyethylene underdrain pipe (12-inch through 60-inch diameter maximum), couplings, and fittings shall meet the requirements of AASHTO M294 Type CP or Type SP. Type CP shall be Type C pipe with Class 2 perforations and Type SP shall be Type S pipe with either Class 1 or Class 2 perforations. Additionally, Class 2 perforations shall be uniformly spaced along the length and circumference of the pipe. Perforated corrugated polyethylene underdrain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

POLE TABLE (NEW)

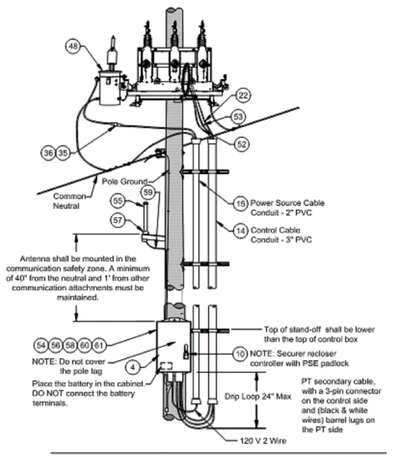
Site #	Pole Data				
	Grid #	Height	Class	Year	Remarks / Location Ref.
P01	260267-197118	50	H1		PSE Equip # X91236S FRP

POLE RETIREMENT TABLE

SITE #	POLE DATA				POLE		TEMP TRANSFERS			ST. LIGHT TRANSFERS		
	GRID #	HEIGHT	CLASS	YEAR	TOPPED	RMVD	TEL	TV	FIBER	TRAN	RMVD	ID NUMBER
P01	260267-197118	40	4	1964	☐	☐	☐	☐	☐	☐	☐	

Vacuum Interrupt Line Reclosers with CPT, 12 kV **6023.1021**

Figure 4 G&W Vacuum Interrupt Recloser, Control Cable, and Power Source Cable Installation



Vicinity Map
LAT/LONG: 46.9858/-120.61671

101169464

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N/A
N/A
ATTN: FREMONT AGUINALDO 425-396-3818 office

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THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

REAL ESTATE/EASEMENT				PERMIT	
N/A				KITTITAS COUNTY	
				FUNCTION	**CONTACT**	**PHONE NO**	**DATE**
3				PROJECT MGR	D. ELSWORTH	425-681-4338	
2				ENGR - POWER	A. CRAWFORD	425-424-7982	
1				ENGR - GAS	N/A	N/A	
REV#	**DATE**	**BY**	**DESCRIPTION**	DRAWN BY	ACT-JS	918-899-7502	01/27/24
COUNTY KITTITAS	Emer Sect N/A	Gas Wk Ctr N/A	POWER WK CTR QCKTTE	CHECKED BY			
1/4 SEC SE 05-17-18 E	OP MAP N/A		PLAT MAP 277-239	APPROVED BY	Andrea Crawford	425.559.5712	5/31/2024
U-MAP NO (POWER) 1718E020	OH CKT MAP 1718E036	UG CKT MAP 1718E020	CIRCUIT NO THO-13	FOREMAN #1			
				FOREMAN #2			
				MAPPING			

JOINT FACILITIES ARRANGEMENTS				
UTILITIES	CHARTER COMMUNICATIONS	N/A	N/A	N/A
CONTACT	N/A	N/A	N/A	N/A
PHONE#	360-258-5196	N/A	N/A	N/A

PUGET SOUND ENERGY

THO-13 WF INST RCL

INSTALL RECLOSER

260267-197118, 2440 HANSON RD, ELLENSBURG, WA 98926

DESIGN BY: Actalent Services

INCIDENT N/A	MAOP N/A
Gas Order N/A	Elect Order 101169464
SCALE AS NOTED	PAGE 2/2

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