# PSE Puyallup OTC
## COMMERCIAL UG PRIMARY LINE EXT
## PSE CAPITAL PROJECT

PRFUP20241810

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

## GENERAL SPECIFICATIONS

Scope of Work
PSE project limits Todd RD NW between 4th & Meridian E overpass Puyallup

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.
- Use 397 AAC and Ampact connectors for all bare conductor feeder jumpers and 600 amp switch jumpers. Install tree wire conductor for jumpers on all poles that are double deadended with tree wire.
- 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 overhead and underground taps with fused protection above 40T.
- Install Wildlife Protectors on all transformers.

UNDERGROUND CONSTRUCTION

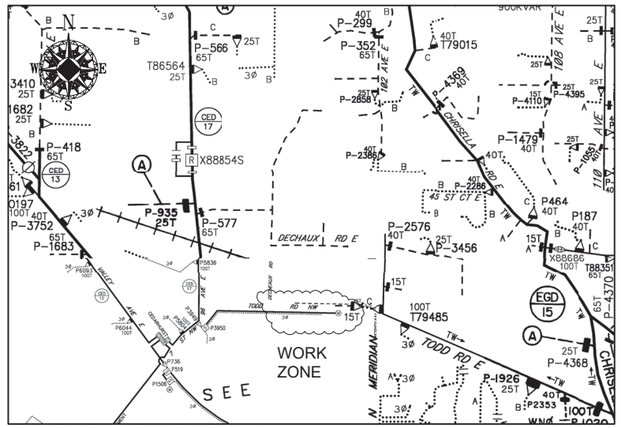
Excavation
- Trenching outside of the Right-of-way shall be of sufficient depth to provide a minimum of 36" of cover for primary conductors and 24" of cover for secondary conductors.
- Road crossings and all trenches within the Right-of-way shall be of sufficient depth to provide a minimum of 36" of cover for all conductors or as required by the permitting Agency.
- All conductors/conduits shall have a minimum of 3" of bed and 3" of clean sand cover.
- No rocks larger than 6" shall be included in backfill.
- Backfill in road crossings and within the Right-of-way shall be compacted to 95% density or as required by the permitting Agency.
- Restore all excavated areas to original condition.
- If four or more six inch conduits are installed in a trench, fluidized thermal backfill (FTB) shall be installed around the conduits to a depth of six inches above and to the sides of the conduit, and two inches underneath, per PSE Standard 6790.0140.

Vaults & Handholes
- Refer to PSE standard 6775.0040 "Vault and Handhole Installation"
- Vaults shall be placed level and 2" above final grade in landscaped areas and flush with final grade when placed in hard surface areas.
- A minimum 6" bed of 5/8" crushed rock shall be placed under all vaults.
- All conduit entrances shall be grouted.

Conductors & Conduit
- Refer to PSE standard 6800.6000 "PVC Conduit Installation".
- Unless splices are called for, or otherwise noted or approved, conduit risers shall be plumbed directly to road crossing conduits.
- Install insulating caps on all unused primary bushings.
- All "spare" conduits shall be capped at each end.

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.)




OVERHEAD CIRCUIT MAP
SCALE: NONE

PRELIMINARY DESIGN

- NEW 6" CONDUIT AND OR TRENCH LINE
- NEW 4" CONDUIT AND OR TRENCH LINE
- NEW 3" CONDUIT AND OR TRENCH LINE
- NEW 2" CONDUIT AND OR TRENCH LINE
- NEW 3Ø PRIMARY CABLE
- NEW 1Ø PRIMARY CABLE
- NEW 3Ø SECONDARY CABLE
- NEW 1Ø SECONDARY CABLE
- 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
- JUNCTION VAULT/JUNCTION BOX
- PADMOUNT TRANSFORMER
- TOTAL UNDERGROUND TRANSFORMER
- SECONDARY HANDHOLE

LEGEND

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.

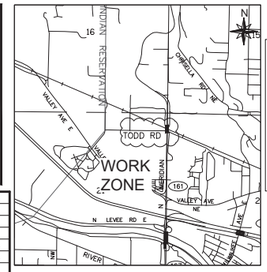
Foreman's Signature _____
Print Name _____ Date _____

| PROJECT PHASE | | NOTIF# | ORDER# |
|---|---|---|---|
| PWR | Superior | 514898889 | 105105145 |
| | Removal | N/A | 108154453 |
| | XFMR removal | N/A | 583076838 |
| | M01 | N/A | 104xxxxxx |
| | M02 | N/A | 104xxxxxx |
| | | | |
| | | | |
| CABLE TV | | | |
| PHONE | | | |

**Project Manager Contact Information:**
*Manager:* Lonnie Adams
*Cell Phone:* 253.841.6244
*E-Mail:* Lonnie.Adams @pse.com

| | |
|---|---|
| PSE Locates Required | YES |
| Customer Locates Required | YES |
| Outages Required | YES |
| Flagging Required | YES |

*Vicinity Map*




105105145

*Owner / Developer Contact Info*
Pennon Construction Company
600 University Street, Suite 2912
Seattle, WA 98101
ATTN: Spencer Franks (206) 458-2331 office

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

**CALL (800) 424-5555**
**2 BUSINESS DAYS BEFORE YOU DIG**
THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

| REAL ESTATE/EASEMENT Required | | | PERMIT Puyallup | |
|---|---|---|---|---|
| | | | **FUNCTION** | **CONTACT** | **PHONE NO** | **DATE** |
| | | | PROJECT MGR | L. Adams | (360) 764-6738 | 6/6/24 |
| | | | ENGR - POWER | Nate Linville | (253) 970-7284 | 6/6/24 |
| **REV#** | **DATE** | **BY** | **DESCRIPTION** | ENGR - GAS | | |
| | | | | DRAWN BY | Nate Linville | (253) 970-7284 | 6/6/24 |
| | | | | CHECKED BY | | |
| | | | | APPROVED BY | | |
| | | | | FOREMAN #1 | | |
| | | | | FOREMAN #2 | | |
| | | | | MAPPING | | |

| COUNTY | Emer Sect | Gas Wk Ctr | POWER WK CTR |
|---|---|---|---|
| Pierce | | | QSWPRE |

| 1/4 SEC | OP MAP | PLAT MAP |
|---|---|---|
| NE-21-20N-04E | | |

| U-MAP NO (POWER) | OH CKT MAP | UG CKT MAP | CIRCUIT NO |
|---|---|---|---|
| 2004E081 | 2004E104/084 | 2004E084 | CED-17 |

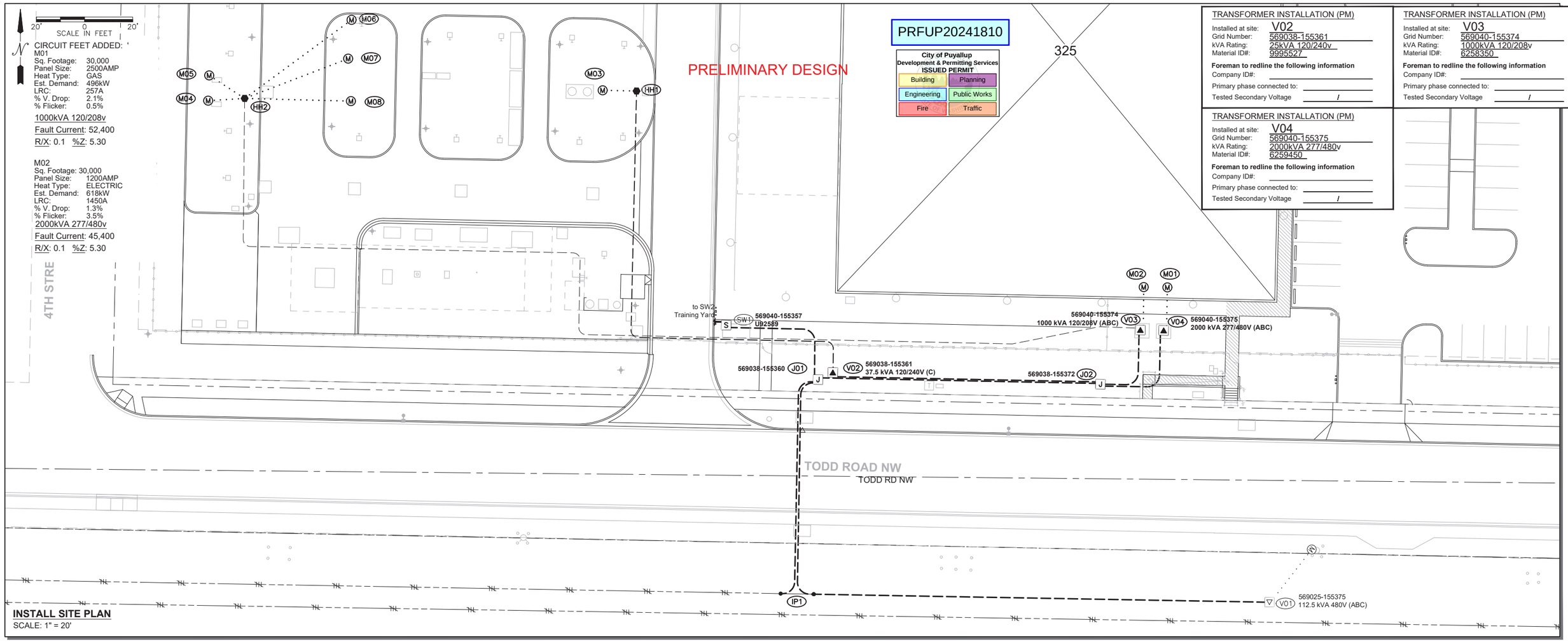
**JOINT FACILITIES ARRANGEMENTS**

| | | | | |
|---|---|---|---|---|
| UTILITIES | | | | |
| CONTACT | | | | |
| PHONE# | | | | |

PUGET SOUND ENERGY
**DESIGNED BY** PSE

PSE Puyallup OTC
Com'l UG Primary Line Ext, Set XFMR, Remove OH
325 Todd RD NW, PuyallupWA 98372

| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105105145 |
| SCALE AS NOTED | PAGE 01/05 |




**INSTALL SITE PLAN**
SCALE: 1" = 20'

TRANSFORMER INSTALLATION (PM)
Installed at site: V02
Grid Number: 569038-155361
kVA Rating: 25kVA 120/240v
Material ID#: 9995527
**Foreman to redline the following information**
Company ID#:
Primary phase connected to:
Tested Secondary Voltage /

TRANSFORMER INSTALLATION (PM)
Installed at site: V03
Grid Number: 569040-155374
kVA Rating: 1000kVA 120/208v
Material ID#: 6258350
**Foreman to redline the following information**
Company ID#:
Primary phase connected to:
Tested Secondary Voltage /

TRANSFORMER INSTALLATION (PM)
Installed at site: V04
Grid Number: 569040-155375
kVA Rating: 2000kVA 277/480v
Material ID#: 6259450
**Foreman to redline the following information**
Company ID#:
Primary phase connected to:
Tested Secondary Voltage /

## SITE SPECIFIC NOTES

**AT IP1:**
INTERCEPT EXISTING (1) 4" CONDUIT, PLUMB (2) 4" DB120 CONDUITS TO J01
STRIP BACK (3) 1/0 AL SOL CABLES FROM V01 TO J01
CABLES AØ-22282, BØ-22283, CØ-22284
RE-ROUTE (1) 4" DB120 CONDUIT FROM J01 TO V01

**AT V01: 569025-155375**
EXISTING TRANSFORMER & VAULT TO REMAIN
CUT EXISTING ELBOWS, TRANSFER CABLE TAGS TO J01
CABLES AØ-22282, BØ-22283, CØ-22284
INST (3) LB ELBOWS 6041.1000 (ELB10J)
INST NEW CABLE TAGS
AØ-EJT721, BØ-EJT722, CØ-EJT723

**AT HH1:**
INST (1) 13" X 24" POLY SECONDARY HAND HOLE 6050.2000 (HH16350)
INST (3) #10-350KCMIL SECONDARY CONNECTOR BARS

**AT HH2:**
INST (1) 3'8" X 2'8" CONCRETE SECONDARY HAND HOLE W/ STD PLATE DOOR 6050.2100 (HH38500SP)
INST (4) #10-500KCMIL SECONDARY CONNECTOR BARS

**M01 & M02**
PSE METERING DEPARTMENT TO SET CT'S AND ASSOCIATED METERING EQUIPMENT

**M03-M08**
METER OPERATIONS TO SET METERS

## SPAN NOTES:
SEE CABLE TABLES ON PG. 04 FOR PRIMARY CABLE & CONDUIT INFO

## SPAN NOTES:
SEE CABLE TABLES ON PG. 04 FOR PRIMARY CABLE & CONDUIT INFO

**V02 TO HH1:**
**INST (1) 3" DB120 CONDUIT IN CUSTOMER PROVIDED TRENCH ±200' (____' ACTUAL)**
**INST (1) 350KCMIL SECONDARY TPLX ±210' (_____' ACTUAL)**

**V03TO HH2**
**INST (1) 3" DB120 CONDUIT IN CUSTOMER PROVIDED TRENCH ±460' (____' ACTUAL)**
**INST (1) 350KCMIL SECONDARY QUAD ±480' (_____' ACTUAL)**

Any public curb, gutter, or sidewalk broken now or during the course of construction shall be removed and replaced per City Standards.

A 10" diameter core drill is allowed for potholing. For pothole windows larger than 10" in diameter or trenching completed in existing roadway, the contractor shall restore the pavement by installing the trench patch and then grinding/overlaying. All roadway restoration and street patches shall comply with City Standard Detail 01.01.20.

Where a curb exists, the lateral offset of all vertical obstructions shall be a minimum of 1.5' from the face of the curb to the face of the vertical obstruction and a minimum of 3' at intersections. Where no curb exists, the lateral offset of all vertical obstructions shall be a minimum of 4' measured from the edge of pavement to the face of the obstruction.

## Vault & Equipment Table

| Work Location | Grid Number | Vault Size & Cover | Type & Size Equipment In Vault | Primary Bushings LB | Primary Bushings DC | Transformer ID Numbers (Company ID) | ASBUILT INFORMATION Foreman-Complete |
|---|---|---|---|---|---|---|---|
| J01 | 569038-155360 | JBOX15L (5'x7'x5') | JBOX | 12 | 0 | | |
| J02 | 569038-155372 | JBOX15L (5'x7'x5') | JBOX | 10 | 2 | | |
| V02 | 569038-155361 | MINU1SR (3'x3.5'x3.167') | PAD-1P-07-120/240-37 (37.5 kVA) | 1 | 1 | | |
| V03 | 569040-155374 | PM3P12D (7'x7'x6') | PAD-3P-12-120/208-1000 (1000 kVA) | 3 | 0 | | |
| V04 | 569040-155375 | PM3P12D (7'x7'x6') | PAD-3P-12-277/480-2000 (2000 kVA) | 3 | 0 | | |
| SW1 | 569040-155357 | PME1015 (11'4"x5'10"x8'2") | 200A: 0 Pos. 600A: 4Pos. | 6 | 6 | U92589 | |

CIRCUIT LOADING TABLE

| | | | | |
|---|---|---|---|---|
| Circuit: | CED-17 | Customer 3Ø Load: | | 1114 |
| As Of: | 2024 | Power Factor: | | .85 |
| | | Phase to Phase Voltage: | | 12500 |
| | | A Phase | B Phase | C Phase |
| Existing Peak Load: | | 310.0 | 279.0 | 314.0 |
| Estimated New Load: | | 60.6 | 60.6 | 60.6 |
| Total: | | 370.6 | 339.6 | 374.6 |

| REAL ESTATE/EASEMENT Required | | | | PERMIT Puyallup | |
|---|---|---|---|---|---|
| | | | | FUNCTION | CONTACT | PHONE NO | DATE |
| | | | | PROJECT MGR | L. Adams | (360) 764-6738 | 6/6/24 |
| | | | | ENGR - POWER | Nate Linville | (253) 970-7284 | 6/6/24 |
| REV# | DATE | BY | DESCRIPTION | ENGR - GAS | | | |
| COUNTY Pierce | | Emer Sect | Gas Wk Ctr | POWER WK CTR QSWPRE | DRAWN BY | Nate Linville | (253) 970-7284 | 6/6/24 |
| 1/4 SEC NE-21-20N-04E | | OP MAP | | PLAT MAP | CHECKED BY | | | |
| | | | | | APPROVED BY | | | |
| U-MAP NO (POWER) 2004E081 | | OH CKT MAP 2004E104/084 | UG CKT MAP 2004E084 | CIRCUIT NO CED-17 | FOREMAN #1 | | | |
| | | | | | FOREMAN #2 | | | |
| | | | | | MAPPING | | | |

JOINT FACILITIES ARRANGEMENTS
UTILITIES
CONTACT
PHONE#

PUGET SOUND ENERGY
DESIGNED BY PSE

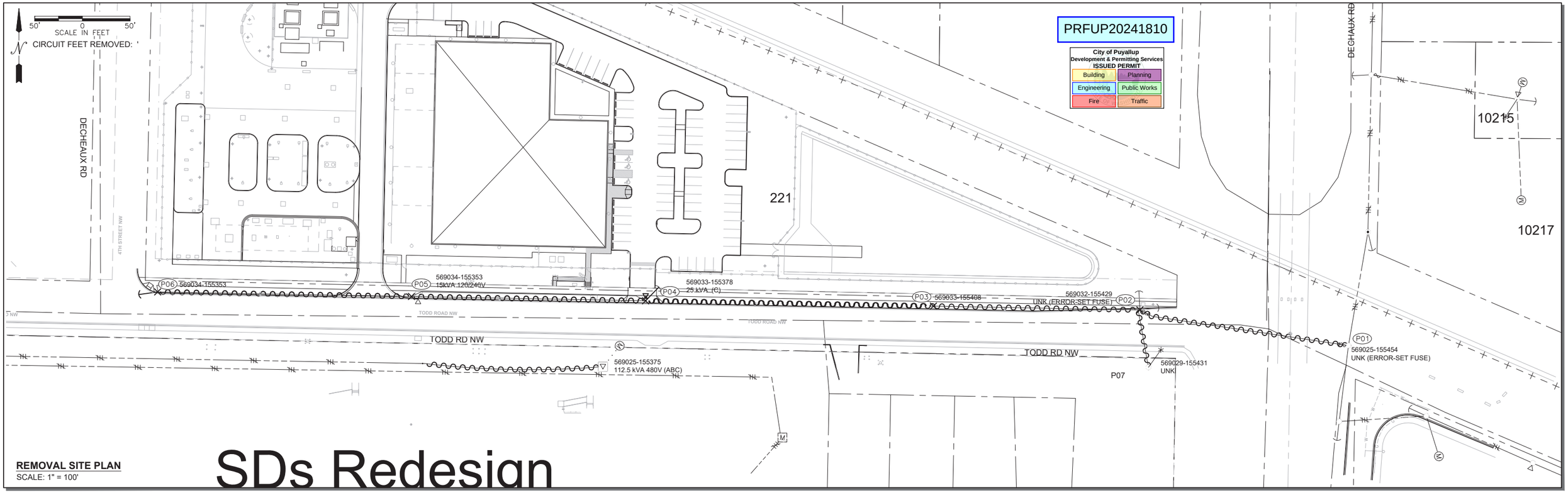
PSE Puyallup OTC
Com'l UG Primary Line Ext, Set XFMR, Remove OH
325 Todd RD NW, PuyallupWA 98372

AUD

| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105105145 |
| SCALE AS NOTED | PAGE 02/05 |

105105145

Aug 23, 2024 - 9:12am J:\Electric_Southwest\PIERCE\LONNIE ADAMS\105105145_PSE Operational Training Center\CAD\105105145_psesitc_prelim_2023.12.20.dwg By: nlinvi




**REMOVAL SITE PLAN**
SCALE: 1" = 100'

# SDs Redesign

## SITE SPECIFIC NOTES

**AT P01:** 569025-155454
EXISTING DISTRIBUTION POLE TO REMAIN
REMOVE EXISTING OH TO UG TERMINATION
REMOVE PRIMARY RISER

**AT P02:** 569032-155429
REMOVE EXISTING DISTRIBUTION POLE & ASSOCIATED EQUIPMENT
CUT EXISTING GUY ANCHORS 1' BELOW GRADE

**AT P03:** 569033-155408
REMOVE EXISTING DISTRIBUTION POLE & ASSOCIATED EQUIPMENT

**AT P04:**
REMOVE EXISTING DISTRIBUTION POLE & ASSOCIATED EQUIPMENT
REMOVE EXISTING OH XFMR, RETURN TO PSE YARD

**CUSTOMER NOTE:**
SITE MUST BE READY 1-WEEK PRIOR TO CONSTRUCTION DATE

Any public curb, gutter, or sidewalk broken now or during the course of construction shall be removed and replaced per City Standards.

A 10" diameter core drill is allowed for potholing. For pothole windows larger than 10" in diameter or trenching completed in existing roadway, the contractor shall restore the pavement by installing the trench patch and then grinding/overlaying. All roadway restoration and street patches shall comply with City Standard Detail 01.01.20.

**POLE RETIREMENT TABLE**

| Wk Loc | Pole Data | | | | Pole | | TEMP TRANSFERS | | | ST. LIGHT TRANSFERS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Grid # | Length | Class | Year | TOPPED | RMVD | TEL | TV | FIBER | TRAN | RMVD | ID NUMBER |
| P02 | 569032-155429 | 45 | UNK | 1960 | | | | | | | | |
| P03 | 569033-155408 | 45 | CL-1 | 2012 | | | | | | | | |
| P04 | 569035-155327 | 40 | UNK | 1960 | | | | | | | | |
| P05 | 569034-155353 | 45 | CL-1 | 2012 | | | | | | | | |
| P06 | 569033-155378 | 40 | UNK | 1960 | | | | | | | | |

**WIRE REMOVAL TABLE**

| Work Location | | Wire Size & Type | Quantity | Length (per conductor) | Remarks |
|---|---|---|---|---|---|
| From | To | | | | |
| P02 | P03 | #2 ACSR - PRI | 1 | 220' | |
| P02 | P03 | #2 ACSR - NEUT | 1 | 220' | |
| P02 | P03 | #2 TPLX | 1 | 220' | |
| P02 | P07 | #2 TPLX | 1 | 80' | |
| P03 | P04 | #2 ACSR - PRI | 1 | 300' | |
| P03 | P04 | #2 ACSR - NEUT | 1 | 300' | |
| P03 | P04 | #2 TPLX | 1 | 300' | |
| P04 | P05 | #2 ACSR - PRI | 1 | 245' | |
| P04 | P05 | #2 ACSR - NEUT | 1 | 245' | |
| P05 | P06 | #2 ACSR - PRI | 1 | 266' | |
| P05 | P06 | #2 ACSR - NEUT | 1 | 266' | |

Where a curb exists, the lateral offset of all vertical obstructions shall be a minimum of 1.5' from the face of the curb to the face of the vertical obstruction and a minimum of 3' at intersections. Where no curb exists, the lateral offset of all vertical obstructions shall be a minimum of 4' measured from the edge of pavement to the face of the obstruction.

**TRANSFORMER REMOVAL**
Removed at site: P04
Grid Number: 569033-155378
kVA Rating: 25kVA
**Foreman to redline the following information**
Company ID#:
Primary phase connected to:
Tested Secondary Voltage /

**TRANSFORMER REMOVAL**
Removed at site: P05
Grid Number: 569034-155353
kVA Rating: 15kVA
**Foreman to redline the following information**
Company ID#:
Primary phase connected to:
Tested Secondary Voltage /

Refer to the City standard details 02.03.02 & 05.02.01 for typical erosion and sedimentation control methods.

105105145

For contacts below dial 1-888-CALL PSE (225-5773)
**CALL (800) 424-5555**
**2 BUSINESS DAYS BEFORE YOU DIG**
THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

| REV# | DATE | BY | DESCRIPTION |
|---|---|---|---|

| | | | |
|---|---|---|---|
| COUNTY Pierce | Emer Sect | Gas Wk Ctr | POWER WK CTR QSWPRE |
| 1/4 SEC NE-21-20N-04E | OP MAP | | PLAT MAP |
| U-MAP NO (POWER) 2004E081 | OH CKT MAP 2004E104/084 | UG CKT MAP 2004E084 | CIRCUIT NO CED-17 |

| | REAL ESTATE/EASEMENT Required | PERMIT Puyallup | |
|---|---|---|---|
| FUNCTION | CONTACT | PHONE NO | DATE |
| PROJECT MGR | L. Adams | (360) 764-6738 | 6/6/24 |
| ENGR - POWER | Nate Linville | (253) 970-7284 | 6/6/24 |
| ENGR - GAS | | | |
| DRAWN BY | Nate Linville | (253) 970-7284 | 6/6/24 |
| CHECKED BY | | | |
| APPROVED BY | | | |
| FOREMAN #1 | | | |
| FOREMAN #2 | | | |
| MAPPING | | | |

**JOINT FACILITIES ARRANGEMENTS**

| | | | |
|---|---|---|---|
| UTILITIES | | | |
| CONTACT | | | |
| PHONE# | | | |

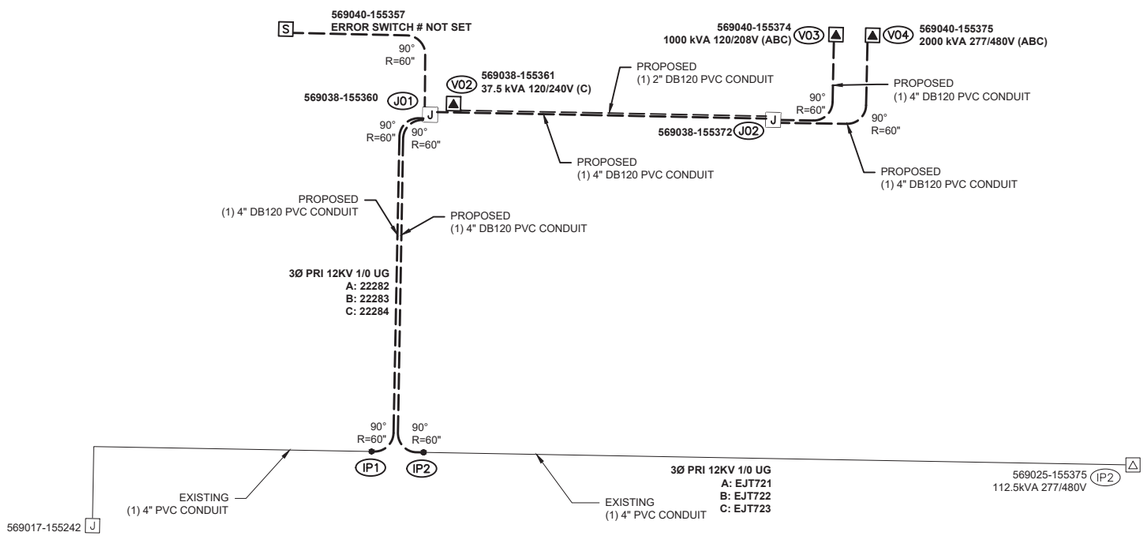
PUGET SOUND ENERGY
**DESIGNED BY** PSE

PSE Puyallup OTC
Com'l UG Primary Line Ext, Set XFMR, Remove OH
325 Todd RD NW, PuyallupWA 98372

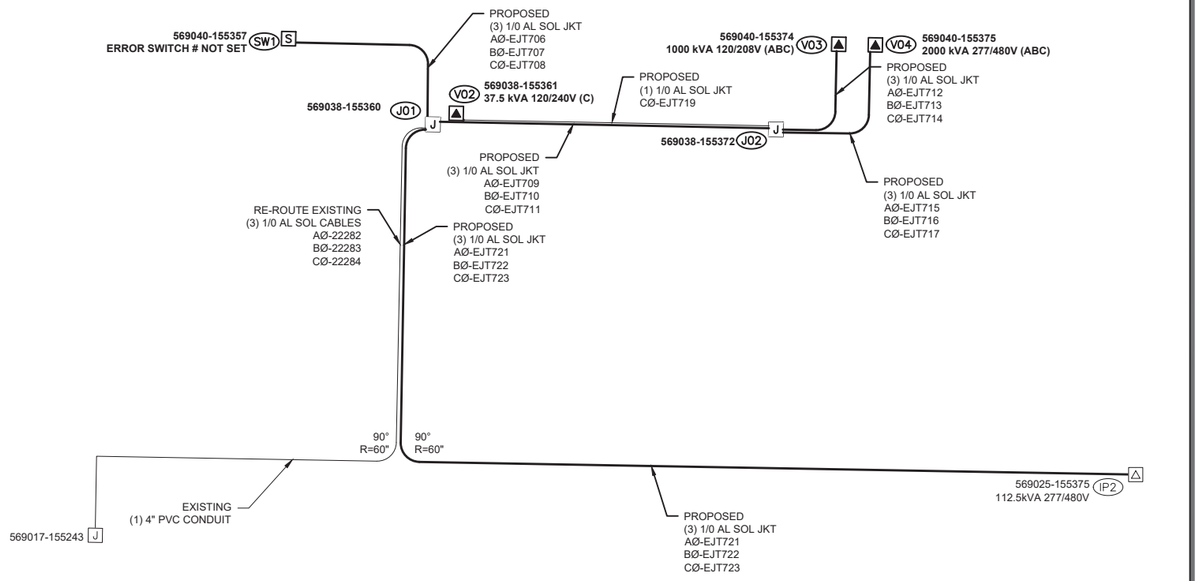
AUD

| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105105145 |
| SCALE AS NOTED | PAGE 03/05 |

Aug 23, 2024 – 9:12am J:\Electric_Southwest\PIERCE\LONNIE ADAMS\105105145_PSE Operational Training Center\CAD\105105145_pseotc_prelim_2023.12.20.dwg By: nlinvi




**PRIMARY CONDUIT DIAGRAM**
SCALE: 1" = 20'




**PRIMARY CABLE DIAGRAM**
SCALE: 1" = 20'

PRFUP20241810

## Primary Cable & Conduit Table (Foreman to Complete)

| LOCATION | | CONDUIT | | | | | | | | | | | | PRIMARY CABLE | | | | | | | | | QTY OF LUBE (gal.) | | AS BUILT INFORMATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | TYPE | | | BENDS | | | | PULL (lbs) | PULL Rev (lbs) | | | | CABLE NUMBERS | | | MANUFACTURING INFORMATION | | | | | |
| From | To | Size (in) | Qty | Design Length (ft) | Actual Length (ft) | DB120 | HDPE | SCH 80 | 90° | 45° | 22° | 11° | | | Cable Size | Design Length (ft) | Actual Length (ft) | A | B | C | Manufacturer | Compound | Year | Design | As Built | Actual Amount Installed (Conduit & Cable) |
| IP1 | J01 | 4" | 1 | 96' | | X | | | 2 | 0 | 0 | 0 | 641.3 | 641.7 | PRI 12KV 750 UG | 156' | | 22282 | 22283 | 22284 | | | | | | |
| J01 | V01 | 4" | 1 | 283' | | X | | | 2 | 0 | 0 | 0 | 1251.8 | 901.7 | PRI 12KV 750 UG | 343' | | EJT721 | EJT722 | EJT723 | | | | | | |
| J01 | SW1 | 4" | 1 | 52' | | X | | | 1 | 0 | 0 | 0 | 161.5 | 157.9 | PRI 12KV 1/0 UG | 112' | | EJT706 | EJT707 | EJT708 | | | | | | |
| J01 | J02 | 4" | 1 | 114' | | X | | | 0 | 0 | 0 | 0 | 361.1 | 361.1 | PRI 12KV 750 UG | 174' | | EJT709 | EJT710 | EJT711 | | | | | | |
| J01 | V02 | 2" | 1 | 55' | | X | | | 1 | 0 | 0 | 1 | 159.6 | 169.6 | PRI 12KV 1/0 UG | 115' | | | | EJT719 | | | | | | |
| J02 | V03 | 4" | 1 | 38' | | X | | | 2 | 0 | 0 | 0 | 501.4 | 483.1 | PRI 12KV 750 UG | 115' | | EJT712 | EJT713 | EJT714 | | | | | | |
| J02 | V04 | 4" | 1 | 48' | | X | | | 1 | 0 | 0 | 1 | 159.6 | 169.6 | PRI 12KV 1/0 UG | 120' | | EJT715 | EJT716 | EJT718 | | | | | | |

## Vault & Equipment Table

| Work Location | Grid Number | Vault Size & Cover | Type & Size Equipment In Vault | Primary Bushings | | Transformer ID Numbers (Company ID) | ASBUILT INFORMATION Foreman-Complete |
|---|---|---|---|---|---|---|---|
| | | | | LB | DC | | |
| J01 | 569038-155360 | JBOX15A(5'x7'x6') | JBOX | 12 | | | |
| J02 | 569038-155372 | JBOX15A (5'x7'x6') | JBOX | 10 | 2 | | |
| V03 | 569040-155374 | PM3P15L (7'x7'x4') | PAD-3P-12-120/208-1000 (1000 kVA) | 3 | | | |
| V04 | 569040-155375 | PM3P15L (7'x7'x4') | PAD-3P-12-277/480-2000 (2000 kVA) | 3 | | | |
| V02 | 569038-155361 | MINU1SR (3'x3.5'x3.167') | PAD-1P-07-120/240-37 (37.5 kVA) | 1 | 1 | | |
| SW1 | 569040-155357 | PME1015 (4.67'x4.67'x7.5') | 200A: 0 Pos. 600A: 4Pos. | 3 | 9 | | |

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

105105145

| REV# | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |

| | | | |
|---|---|---|---|
| COUNTY | Emer Sect | Gas Wk Ctr | POWER WK CTR |
| Pierce | | | QSWPRE |
| 1/4 SEC | OP MAP | | PLAT MAP |
| NE-21-20N-04E | | | |
| U-MAP NO (POWER) | OH CKT MAP | UG CKT MAP | CIRCUIT NO |
| 2004E081 | 2004E104/084 | 2004E084 | CED-17 |

REAL ESTATE/EASEMENT: Required
PERMIT: Puyallup

| FUNCTION | CONTACT | PHONE NO | DATE |
|---|---|---|---|
| PROJECT MGR | L. Adams | (360) 764-6738 | 6/6/24 |
| ENGR - POWER | Nate Linville | (253) 970-7284 | 6/6/24 |
| ENGR - GAS | | | |
| DRAWN BY | Nate Linville | (253) 970-7284 | 6/6/24 |
| CHECKED BY | | | |
| APPROVED BY | | | |
| FOREMAN #1 | | | |
| FOREMAN #2 | | | |
| MAPPING | | | |

JOINT FACILITIES ARRANGEMENTS

| | | | |
|---|---|---|---|
| UTILITIES | | | |
| CONTACT | | | |
| PHONE# | | | |

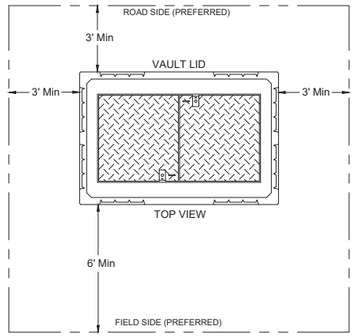
PUGET SOUND ENERGY
DESIGNED BY PSE

PSE Puyallup OTC
Com'l UG Primary Line Ext, Set XFMR, Remove OH
325 Todd RD NW, PuyallupWA 98372

AUD

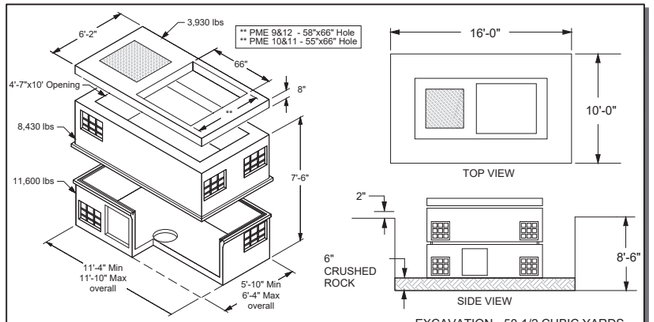
| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105105145 |
| SCALE AS NOTED | PAGE 04/05 |

Aug 23, 2024 – 9:12am J:\Electric_Southwest\PIERCE\LONNIE_ADAMS\105105145_PSE_Operational_Training_Center\CAD\105105145_pseotc_prelim_2023.12.20.dwg By: nlinvi



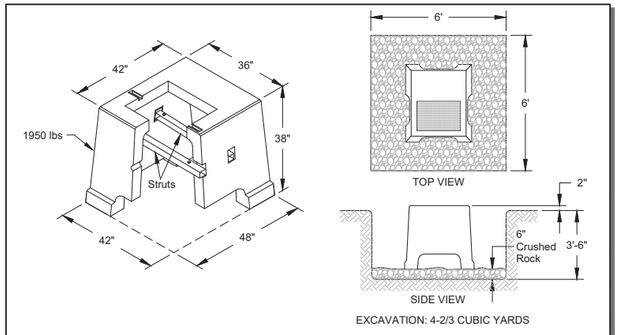

## CLEARANCES FOR PSE FACILITIES (J01 & J02)

SCALE: NONE 6775.0035.02



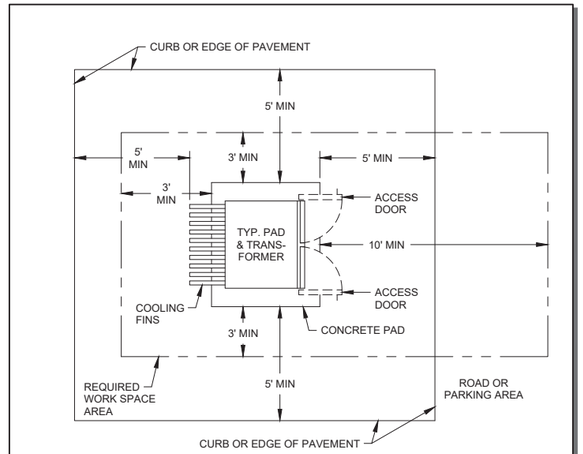

## PME 5106 VAULT & EXCAVATION DETAIL AT SW1

SCALE: NONE 6056.1000




## VAULT & EXCAVATION DETAIL AT V02

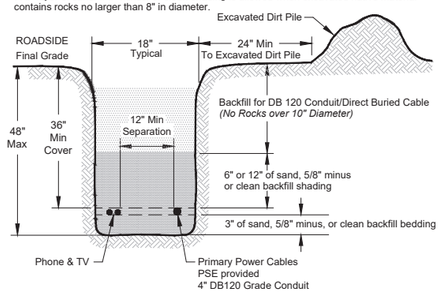
Not to scale 6045.1010




## MINIMUM CLEARANCES FOR PSE EQUIPMENT

Not to scale 6775.0035

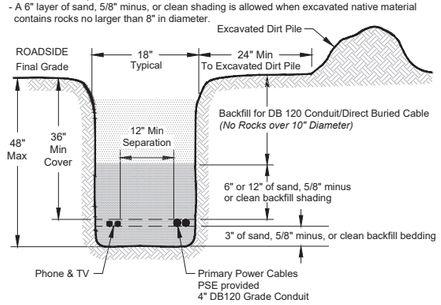
Trench and backfill requirements for primary electric line extension trenches (No PSE gas)
- A 12" layer of sand, 5/8" minus, or clean shading is required when excavated native material contains rocks up to 10" in diameter.
- A 6" layer of sand, 5/8" minus, or clean shading is allowed when excavated native material contains rocks no larger than 8" in diameter.




## CUSTOMER-SUPPLIED TRENCH FOR PRIMARY CABLE J01 TO SW1

SCALE: NONE

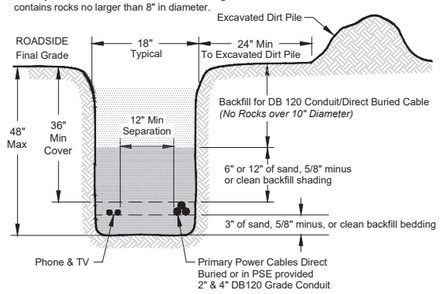
Trench and backfill requirements for primary electric line extension trenches (No PSE gas)
- A 12" layer of sand, 5/8" minus, or clean shading is required when excavated native material contains rocks up to 10" in diameter.
- A 6" layer of sand, 5/8" minus, or clean shading is allowed when excavated native material contains rocks no larger than 8" in diameter.




## CUSTOMER-SUPPLIED TRENCH FOR PRIMARY CABLE IP1 TO J01

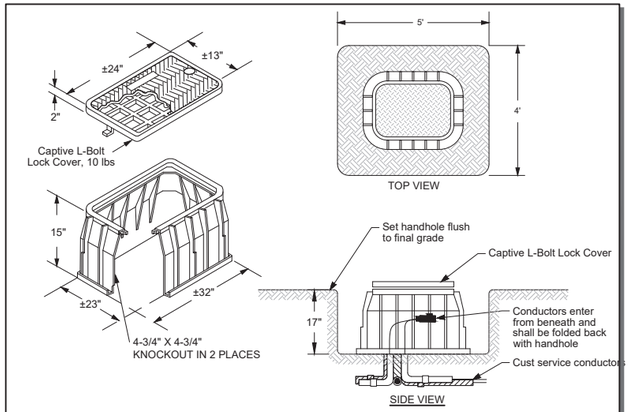
SCALE: NONE

Trench and backfill requirements for primary electric line extension trenches (No PSE gas)
- A 12" layer of sand, 5/8" minus, or clean shading is required when excavated native material contains rocks up to 10" in diameter.
- A 6" layer of sand, 5/8" minus, or clean shading is allowed when excavated native material contains rocks no larger than 8" in diameter.



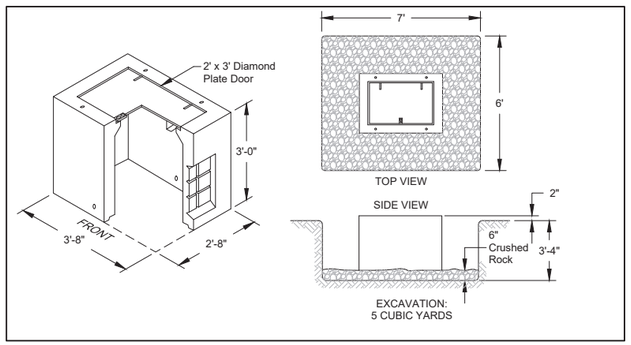

## CUSTOMER-SUPPLIED TRENCH FOR PRIMARY CABLE IP1 TO J01-J02

SCALE: NONE



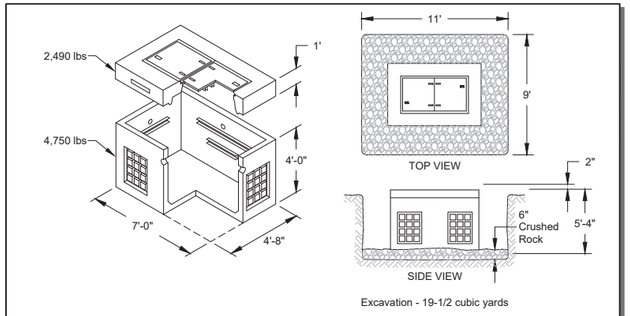

## SINGLE PHASE SECONDARY HANDHOLE AT HH1

Not to scale 6050.2000



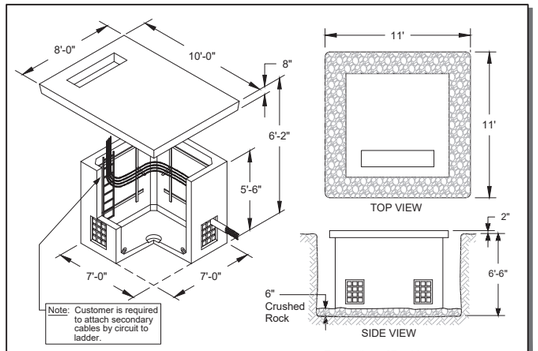

## CUSTOMER-SUPPLIED EXCAVATION FOR VAULT (HH2)

SCALE: NONE




## VAULT & EXCAVATION DETAIL AT J01 & J02

SCALE: NONE 6051.1500




## VAULT DETAIL AT V03 & V04

SCALE: NONE

PRFUP20241810

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

| | |
|---|---|
| Building | Planning |
| Engineering | Public Works |
| Fire | Traffic |

105105145

| REV# | DATE | BY | DESCRIPTION |
|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| COUNTY | Emer Sect | Gas Wk Ctr | POWER WK CTR | |
| Pierce | | | QSWPRE | |
| 1/4 SEC | OP MAP | | PLAT MAP | |
| NE-21-20N-04E | | | | |
| U-MAP NO (POWER) | OH CKT MAP | UG CKT MAP | CIRCUIT NO | |
| 2004E081 | 2004E104/084 | 2004E084 | CED-17 | |

| REAL ESTATE/EASEMENT | | PERMIT | |
|---|---|---|---|
| Required | | Puyallup | |
| FUNCTION | CONTACT | PHONE NO | DATE |
| PROJECT MGR | L. Adams | (360) 764-6738 | 6/6/24 |
| ENGR - POWER | Nate Linville | (253) 970-7284 | 6/6/24 |
| ENGR - GAS | | | |
| CHECKED BY | | | |
| DRAWN BY | Nate Linville | (253) 970-7284 | 6/6/24 |
| APPROVED BY | | | |
| FOREMAN #1 | | | |
| FOREMAN #2 | | | |
| MAPPING | | | |

JOINT FACILITIES ARRANGEMENTS

| | |
|---|---|
| UTILITIES | |
| CONTACT | |
| PHONE# | |

PUGET SOUND ENERGY

DESIGNED BY PSE

PSE Puyallup OTC

Com'l UG Primary Line Ext, Set XFMR, Remove OH

325 Todd RD NW, PuyallupWA 98372

AUD

| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105105145 |
| SCALE AS NOTED | PAGE 05/05 |