

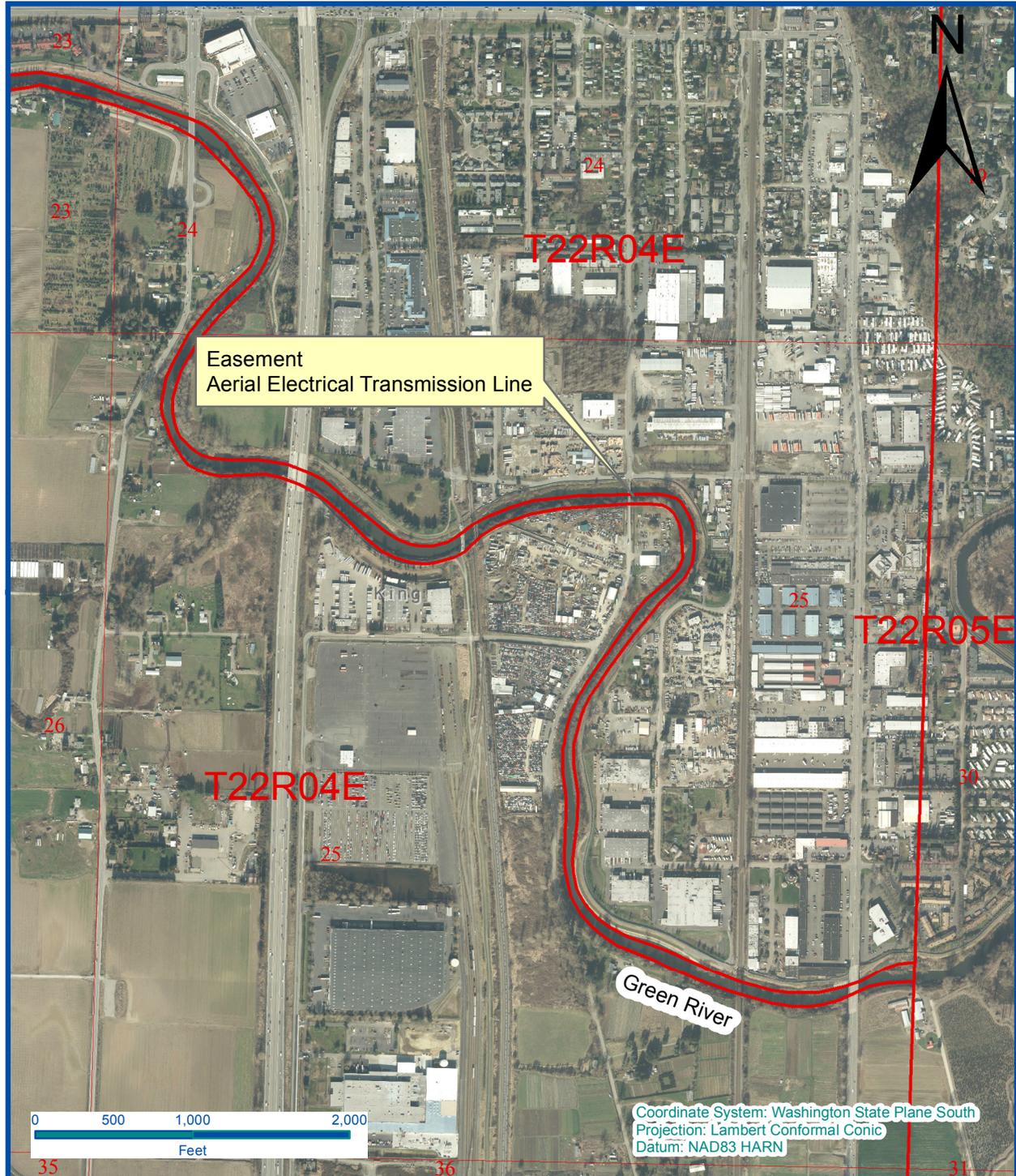


WASHINGTON STATE DEPARTMENT OF
Natural Resources
Peter Goldmark - Commissioner of Public Lands

Application for Use of State-owned Aquatic Lands

Applicant Name: Puget Sound Energy, Inc.
County: King County
Water Body: Green River
Type of Authorization - Use: Easement – Aerial Electrical Transmission Line
Alvord T Bridge Crossing
Authorization Number: Agreement Number – Not Assigned
Term: 30 years
Description: This agreement will allow the use of State-owned aquatic lands for the sole purpose of an aerial electrical transmission line crossing. It is located on the Green River, in King County, Washington.

For further information contact Trina Sunderland at (206) 455-1014



Vicinity Map

Every attempt was made to use the most accurate and current geographic data available. However, due to multiple sources, scales, and the currency of the data used to develop this map Washington Department of Natural Resources cannot accept responsibility for errors and omissions in the data. Furthermore, this data is not survey grade information and cannot be substituted for an official survey. Therefore, there are no warranties that accompany this material

Legal Description -
T22N R04E Section 25

Address:
Alvord T Bridge Crossing
King County

Prepared By: Eric Forner Date: 11 APR 2013

S. 259th St. - Bridge Demo.

P.I. Pole Relocation

PSE Capital Project

GENERAL SPECIFICATIONS

Scope of Work

The County is demolishing the existing Alvord T. Bridge and will not be replacing it. The overhead power is single phase radial and the existing pole on the SW corner of the bridge is in direct conflict with the crane work and removal of the bridge. A temporary shoe-fly is needed to maintain service during bridge demo.

Construction/demolition is scheduled for "fish window" 2013, however, our work may need to be completed by May 2013.

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.

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 worksheet.
- Return one Foreman's copy of worksheet 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 naphthenate 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 transformers above 25 kVA. 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

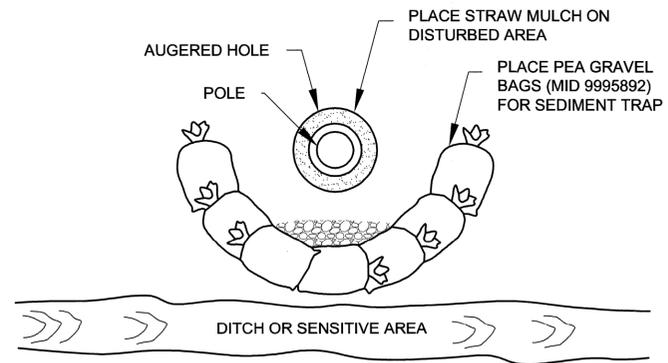
- Trenching outside of the Right-of-way shall be of sufficient depth to provide a minimum of 36" of cover for primary conductors and 24" of cover for secondary conductors.
- Road crossings and all trenches within the Right-of-way shall be of sufficient depth to provide a minimum of 36" of cover for all 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.

Vaults & Handholes

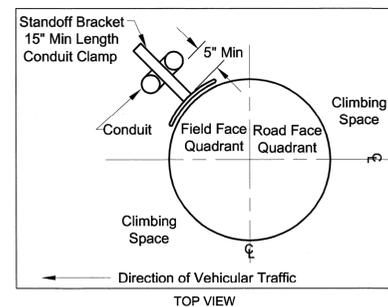
- Refer to PSE standard 6775.0040 "Vault and Handhole Installation"
- Vaults shall be placed level and 2" above final grade in landscaped areas and flush with final grade when placed in hard surface areas.
- A minimum 6" bed of 5/8" crushed rock shall be placed under all vaults.
- All conduit entrances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

Conductors & Conduit

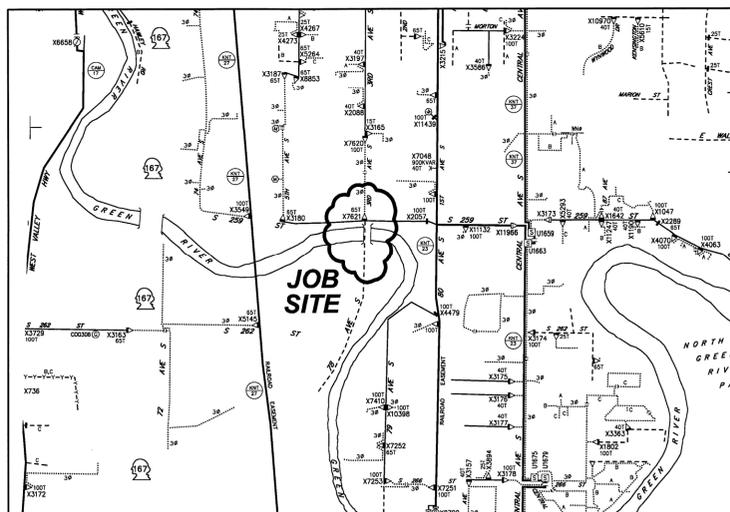
- Refer to PSE standard 6800.6000 "PVC Conduit Installation".
- Unless splices are called for, or otherwise noted or approved, conduit risers shall be plumbed directly to road crossing conduits.
- Install insulating caps on all unused primary bushings.
- All "spare" conduits shall be capped at each end.



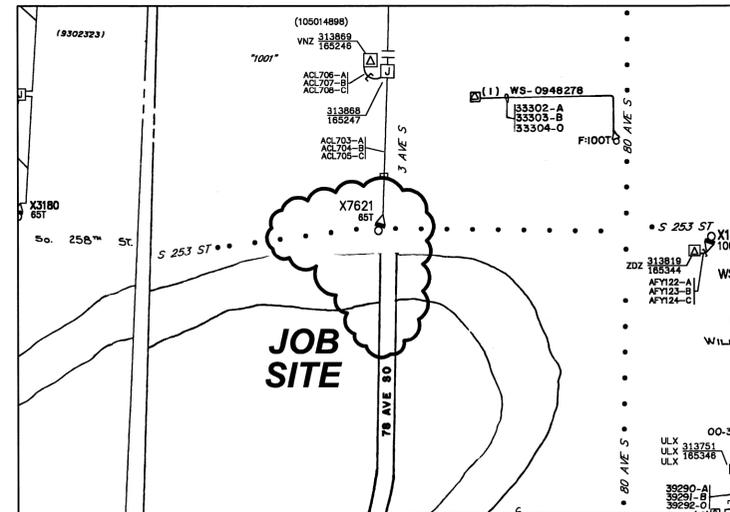
TYPICAL AUGERED WORK SITE - 0150.3200
TECHNIQUES FOR EROSION AND SEDIMENT CONTROL



CONDUIT RISER PLACEMENT DETAIL
NOT TO SCALE



OVERHEAD CIRCUIT MAP (2204E100)
SCALE: 6" = 1 MILE



UNDERGROUND CIRCUIT MAP (2204E097 / 098)
SCALE: NONE

ELECTRIC SYMBOL LEGEND

●	PROPOSED SECONDARY HANDHOLE
●	PROPOSED NEW POLE
○	EXISTING POLE
→	PROPOSED NEW DOWN GUY
→	EXISTING DOWN GUY
✕	REMOVE EXISTING POLE AND/OR TERMINATION & RISER
▶	NEW 3-PHASE OH TO UG TERMINATION AND RISER
---	NEW CONSTRUCTION
- - - - -	-3-750 KCMIL (12 KV)
- - - - -	-1/0 UG (12 KV) PFI CABLES, OR UG
- - - - -	-SECONDARY TRIPLEX IN DB120 PVC
- - - - -	-NEW OH CONDUCTOR
---	EXISTING 12KV 3-PHASE
---	EXISTING 12KV 1-PHASE



POTELCO DESIGN AND QUALITY ASSURANCE

This design complies with PSE Design/Engineering Standards. Any/all variations have been pre-approved/document by the appropriate PSE Representative.

Signature _____
Print Name _____
Date _____

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.)

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 IDPA 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.

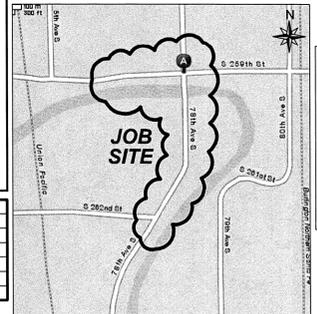
Foreman's Signature _____
Print Name _____ Date _____

PROJECT PHASE	NOTIF#	ORDER#
PWR	11056896	101080889
Removal		108081553
OH Wire Expense		593140228
OH Tmr. Expense		
Misc.		
Job Order		

Project Manager Contact Information:
Jeff Zitterich
(360) 239-0243 Cell Phone
jeff.zitterich@PSE.com E-Mail

Vicinity Map

Thomas Guide Page 715 - Sec. J4



Contact Info:

MCP: Anita Yurovchak - (253) 476-6304 office
MLM: Doug Corbin - (253) 395-8887 office
EOA: Brian Swart - (253) 395-8839 office

City of Kent:
Contact: Victor Daggs (PM) - (206) 423-1063 office

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

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

REV#	DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
3						
2						
1						

COUNTY	Emer Sect	Gas Wk Ctr	POWER WK CTR
KING	N/A	N/A	CCSPLAT
1/4 SEC	OP MAP	PLAT MAP	
NE25-T22-R04E	N/A	N/A	
U-MAP NO (POWER)	OH CKT MAP	UG CKT MAP	CIRCUIT NO
2204E097 / 098	2204E100	2204E097 / 098	KNT-23

UTILITIES	CONTACT	PHONE#

REAL ESTATE/EASEMENT	PERMIT
RED# ()	City of Kent / King County
FUNCTION	CONTACT
PROJECT MGR	J. Zitterich (360) 239-0243
ENGR - POWER	L. Brown (253) 606-2569
	(253) 606-2569
	(253) 395-8839 office

INCIDENT	SCALE	PAGE
N/A	1"=20'	1 of 3

INCIDENT N/A
Elect Order 101080889
SCALE 1"=20' PAGE 1 of 3



S. 259th St. - Bridge Removal Project
Temporary Pole Relocation for Bridge Removal
S. 259th St. & 78th Ave. S., Kent, WA 98032

INCIDENT N/A
Elect Order 101080889
SCALE 1"=20' PAGE 1 of 3

101080889

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

PERMIT

RED# ()

FUNCTION

CONTACT

PHONE NO

DATE

PROJECT MGR

J. Zitterich (360) 239-0243

11/14/12

ENGR - POWER

L. Brown (253) 606-2569

11/14/12

DRAWN BY

L. Brown (253) 606-2569

11/14/12

CHECKED BY

APPROVED BY

FOREMAN #1

FOREMAN #2

FOREMAN #3

MAPPING

UTILITIES

CONTACT

PHONE#

INCIDENT

N/A

Elect Order

101080889

SCALE

1"=20'

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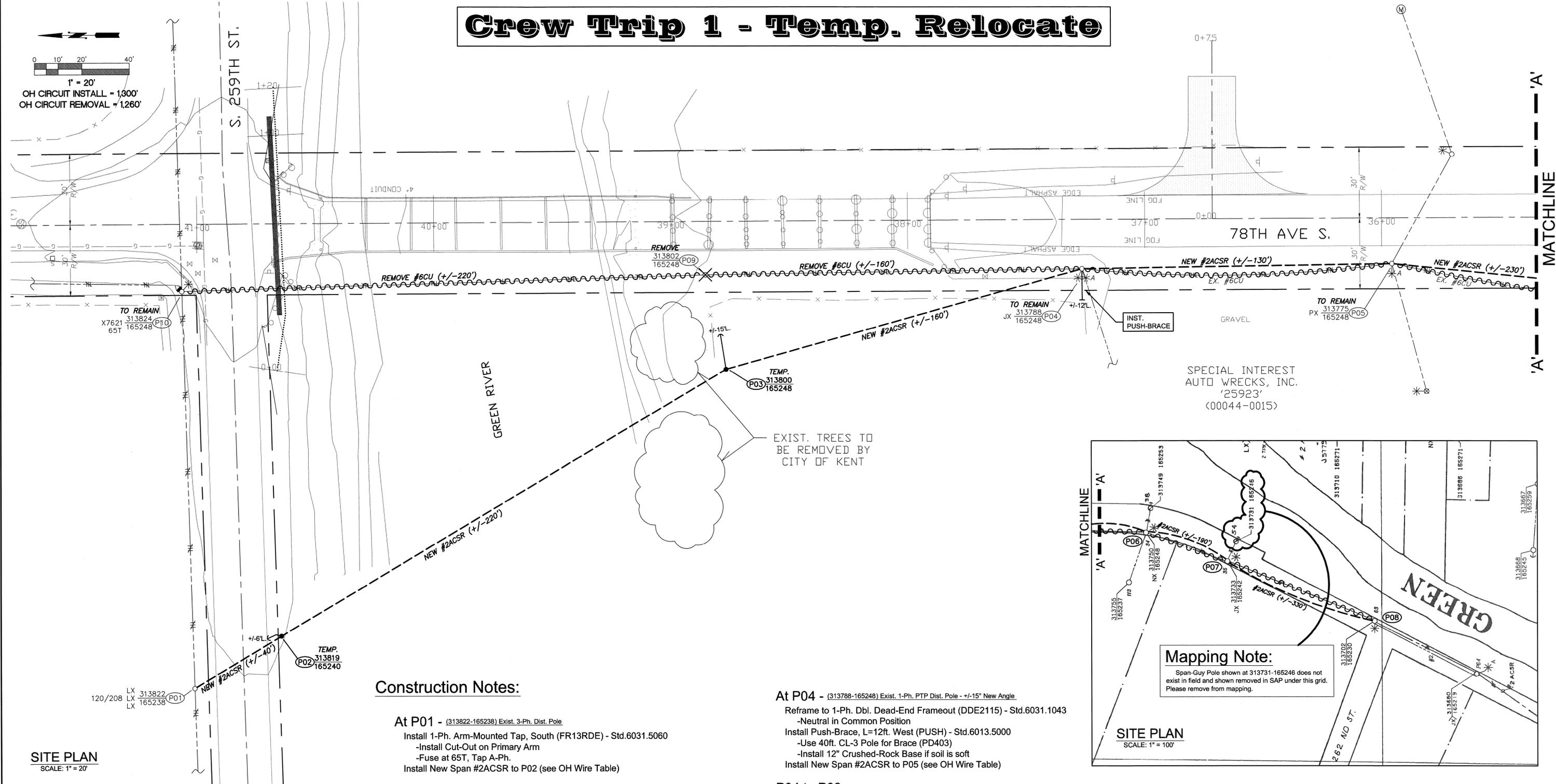
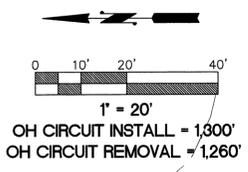
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Crew Trip 1 - Temp. Relocate



SITE PLAN
SCALE: 1" = 20'

Foreman Note:
Charge all work related to poles P01, P02, P03, P09 and P10 to JO#:593140228. All wire replacement work P04 and south to be charged to JO#:101080889.

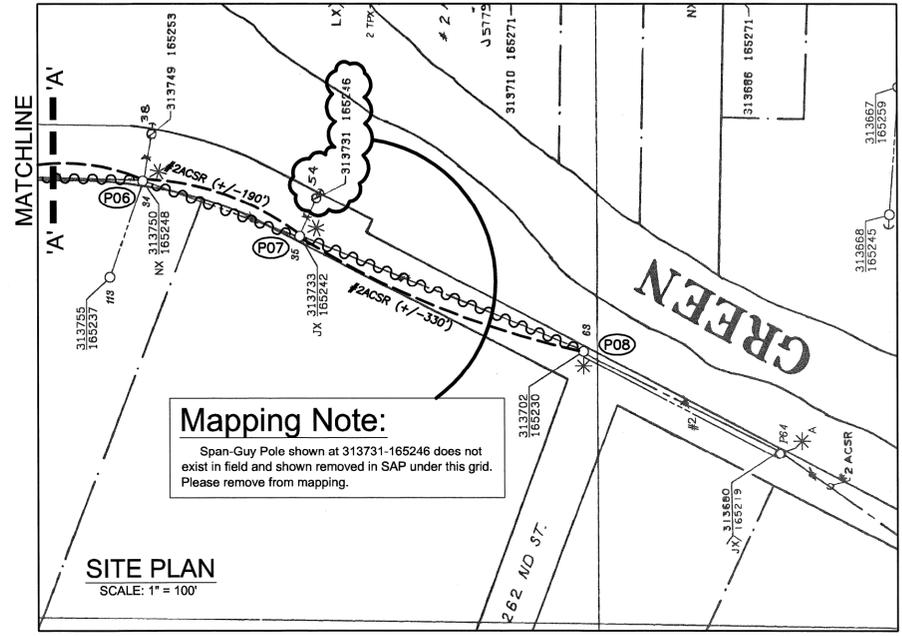
Construction Notes:

- At P01 - (313822-165238) Exist. 3-Ph. Dist. Pole**
Install 1-Ph. Arm-Mounted Tap, South (FR13RDE) - Std.6031.5060
-Install Cut-Out on Primary Arm
-Fuse at 65T, Tap A-Ph.
Install New Span #2ACSR to P02 (see OH Wire Table)
- At P02 - (313819-165240) Temp. 1-Ph. Dist. Pole - <1° Tangent**
Install 45ft. CL-4 Pole w/ Grounds (PD454) - Std.6010.1000
Install 1-Ph. Dbl. Dead-End Frameout (DDE2115) - Std.6031.1043
-Neutral in Common Position
Install 10" Single-Helix Anchor, L=6ft. North (ANDH1) - Std.6012.1000
Install (2) 3/8" Down Guys, Pri. & Neut. (GYD3SA / GYD3SAN) - Std.6013.0100
Install New Span #2ACSR to P03 (see OH Wire Table)
- At P03 - (313800-165248) Temp. 1-Ph. Dist. Pole - +/-15° Angle**
Install 45ft. CL-4 Pole w/ Grounds (PD454) - Std.6010.1000
Install 1-Ph. Dbl. PTP Frameout (ANG112) - Std.6031.1020
-Neutral in Common Position
Install 10" Single-Helix Anchor, L=15ft. East (ANDH1) - Std.6012.1000
Install (2) 3/8" Down Guys, Pri. & Neut. (GYD3SA / GYD3SAN) - Std.6013.0100
Install New Span #2ACSR to P04 (see OH Wire Table)

Span	#2 ACSR Pri. & Neut.	#6CU 1-Ph. Pri. & Neut.	Remarks
P01 to P04 (Install)	420		
P04 to P08 (Install)	880		
P10 to P04 (Remove)		380	Replace Exist. CU w/ New ACSR
P04 to P08 (Remove)		880	Replace Exist. CU w/ New ACSR
Total Circuit Ft =			
	1,300	1,260	

- At P04 - (313788-165248) Exist. 1-Ph. PTP Dist. Pole - +/-15° New Angle**
Reframe to 1-Ph. Dbl. Dead-End Frameout (DDE2115) - Std.6031.1043
-Neutral in Common Position
Install Push-Brace, L=12ft. West (PUSH) - Std.6013.5000
-Use 40ft. CL-3 Pole for Brace (PD403)
-Install 12" Crushed-Rock Base if soil is soft
Install New Span #2ACSR to P05 (see OH Wire Table)
- P04 to P08 - Replace OH Conductor**
String New OH Conductor +/-880ft. (see OH Wire Table)
Replace Pins & Glass as needed
- At P09 - (313802-165248) Exist. 1-Ph. Dist. Pole**
Remove Pole and all PSE-Related Equipment
-No Communications present on this pole
- At P10 - (313824-165248) Exist. 3-Ph. Dist. Pole**
Remove 1-Ph. Arm-Mounted Tap

SITE #	POLE DATA				POLE		TEMP TRANSFERS				REMARKS
	GRID #	HEIGHT	CL.	YR.	TOPPED	RMVD	TEL	FIBER	FIBER	ST. LIGHT	
P09	313802-165248	45	2	1982	<input type="checkbox"/>	No Communications Present					



For contacts below dial 1-888-CALL PSE (225-5773) CALL (800) 424-5555

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

REAL ESTATE/EASEMENT	PERMIT
REDT# ()	City of Kent / King County
FUNCTION	CONTACT
PROJECT MGR	J. Zinterich (360) 239-0243 11/14/12
ENGR - POWER	L. Brown (253) 606-2569 11/14/12
DRAWN BY	L. Brown (253) 606-2569 11/14/12

REV#	DATE	BY	DESCRIPTION	CHECKED BY
1				
2				

COUNTY	Emer Sect	Gas Wk Ctr	POWER WK CTR	APPROVED BY
KING	N/A	N/A	OCSPLAT	
1/4 SEC	OP MAP		PLAT MAP	FOREMAN #1
NE25-T22-R04E	N/A		N/A	FOREMAN #2
U-MAP NO (POWER)	OH CKT MAP	UG CKT MAP	CIRCUIT NO	FOREMAN #3
2204E097 / 098	2204E100	2204E097 / 098	KNT-23	MAPPING

JOINT FACILITIES ARRANGEMENTS

UTILITIES	CONTACT	PHONE#

DESIGNED BY PUGET SOUND ENERGY POTELCO INC

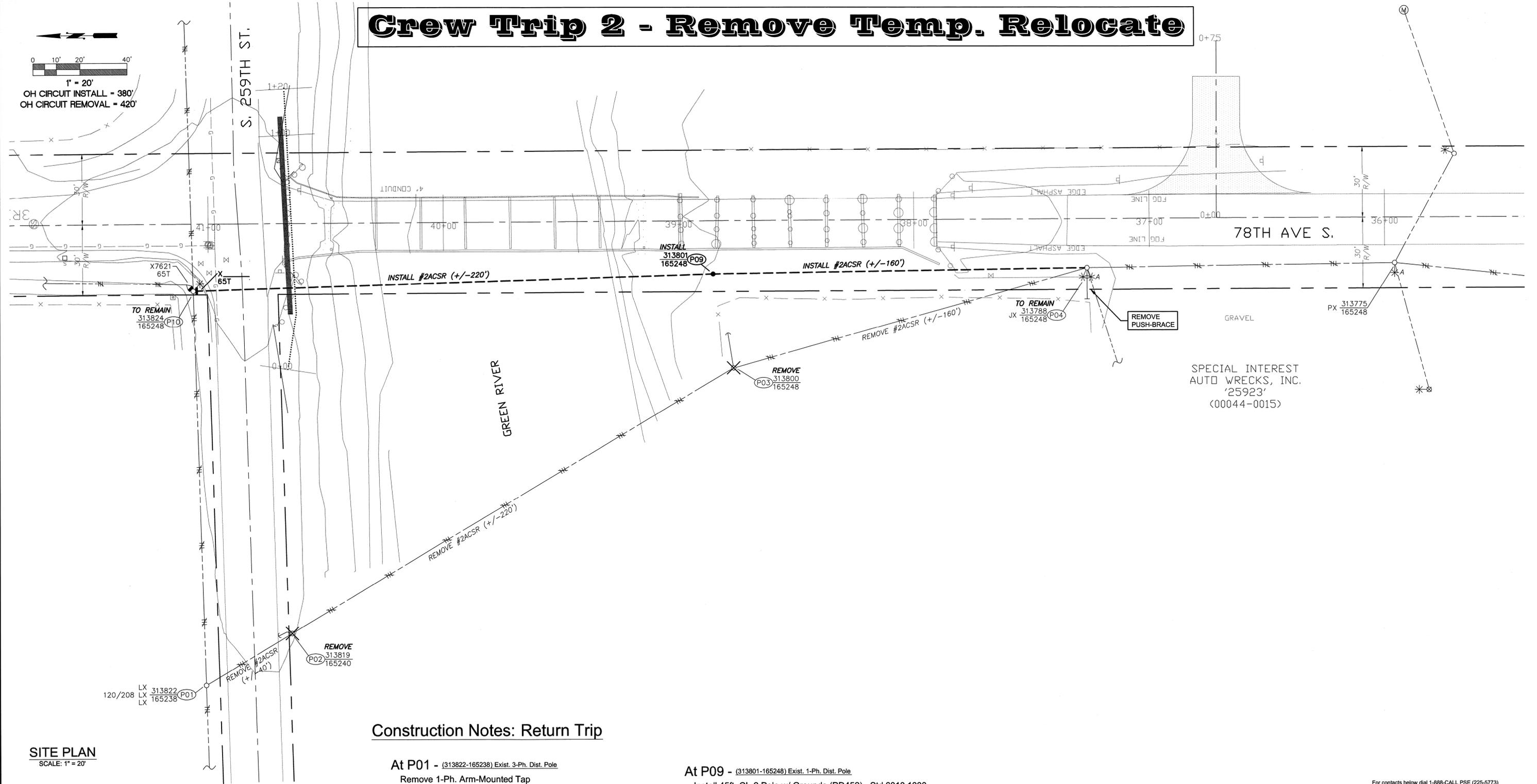
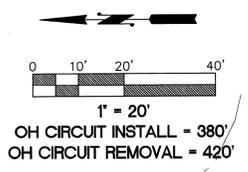
S. 259th St. - Bridge Removal Project
Temporary Pole Relocation for Bridge Removal
S. 259th St & 78th Ave. S. - Kent, WA 98032

INCIDENT
N/A
Elect Order
101080889

SCALE: 1"=20' PAGE: 2 of 3

Feb 18, 2013 - 3:51pm C:\AcadMap302012\Projects\101080889 - S. 259th St. & 3rd Ave. S. - Bridge Pole Relocate.dwg

Crew Trip 2 - Remove Temp. Relocate



SITE PLAN
SCALE: 1" = 20'

Foreman Note:
Charge all work related to poles P01, P02, P03, P09 and P10 to JO#593140228 for installation and later removal.

Span	#2 ACSR Pri. & Neut.	Remarks
P01 to P04 (Remove)	420	
P04 to P10 (Install)	380	
Total Circuit Ft. =		800

Construction Notes: Return Trip

- At P01 - (313822-165238) Exist. 3-Ph. Dist. Pole**
Remove 1-Ph. Arm-Mounted Tap
Remove Cut-Out on Primary Arm
Remove Span #2ACSR to P02 (see OH Wire Table)
- At P02 - (313819-165240) Temp. 1-Ph. Dist. Pole**
Remove 45ft. and all PSE-Related Equipment
Remove Down-Guys & Anchor
Remove Span #2ACSR to P03 (see OH Wire Table)
- At P03 - (313800-165248) Temp. 1-Ph. Dist. Pole**
Remove 45ft. and all PSE-Related Equipment
Remove Down-Guys & Anchor
Remove Span #2ACSR to P04 (see OH Wire Table)
- At P04 - (313788-165248) Exist. 1-Ph. Dbl. DE Dist. Pole**
Install New Span #2ACSR to P09 (see OH Wire Table)

- At P09 - (313801-165248) Exist. 1-Ph. Dist. Pole**
Install 45ft. CL-2 Pole w/ Grounds (PD452) - Std.6010.1000
Install 1-Ph. PTP Frameout (TAN112) - Std.6031.1010
-Neutral in Common Position
Install New Span #2ACSR to P10 (see OH Wire Table)
- At P10 - (313824-165248) Exist. 3-Ph. Dist. Pole**
Install 1-Ph. Arm-Mounted Tap, South (FR13RDE) - Std.6031.5060
-Install Cut-Out on Primary Arm
-Fuse at 65T, Tap A-Ph.
Install Sw#:X

SITE #	POLE DATA				POLE		TEMP TRANSFERS				REMARKS
	GRID #	HEIGHT	CL.	YR.	TOPPED	RMVD	TEL	FIBER	FIBER	ST. LIGHT	
P02	313819-165240	45	3	2013	<input type="checkbox"/>	No Communications Present					
P03	313800-165248	45	3	2013	<input type="checkbox"/>	No Communications Present					

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	DRAWN BY	CHECKED BY	APPROVED BY
1			ENGR - POWER	L. Brown	(253) 606-2569	11/14/12
2			PROJECT MGR	J. Zitterich	(360) 239-0243	11/14/12
3						

COUNTY	Emer Sect	Gas Wk Ctr	POWER WK CTR	CHECKED BY
KING	N/A	N/A	QCSPAT	

U-MAP NO (POWER)	OH CKT MAP	UG CKT MAP	CIRCUIT NO	FOREMAN #1	FOREMAN #2	FOREMAN #3
2204E097 / 098	2204E100	2204E097 / 098	KNT-23	MAPPING		

JOINT FACILITIES ARRANGEMENTS

UTILITIES CONTACT PHONE#	PERMIT
	City of Kent / King County

PSE PUGET SOUND ENERGY
DESIGNED BY POTELCO INC

S. 259th St. - Bridge Removal Project
Temporary Pole Relocation for Bridge Removal
S. 259th St. & 78th Ave. S. - Kent, WA 98032

INCIDENT N/A
Elect Order 101080889
SCALE 1"=20' PAGE 3 of 3