



GENERAL CONDITIONS
For Permits To Work in Washington County Right-of-Way

1. Comply with these General Conditions unless otherwise allowed, in writing, or modified by the Special Conditions or Special Provisions contained within this permit.
2. This permit does not authorize any activity on privately owned property or public rights-of-way not under the control and jurisdiction of Washington County.
3. Failure to comply with any term or condition of this permit shall be cause for the County to revoke, annul, terminate, suspend, revise or amend this permit or issue code violation citation or take any legal action necessary to correct the violation. All costs associated with work stoppage or revocation as provided herein are the responsibility of the Permittee.
4. Follow the direction of Washington County if actual site conditions warrant the need to modify any previously approved construction, traffic control, or erosion control plan. Washington County reserves the right to make changes to the permit and approved supplementary documents including any and all plans at any given time. If submitted plans were prepared by an engineer, submit as built plans to Washington County at project completion.
5. Obtain County approval prior to modifying the scope of the permitted work.
6. Communicate and coordinate, as needed, with adjacent residents, businesses, and other service providers (i.e. utilities, transit providers, garbage haulers, etc.) that may be impacted by the work associated with this permit.
7. Comply with all applicable city, county, state and federal laws and regulations associated with the performance of the work authorized by this permit. Laws and regulations listed in these General Conditions or the Special Provisions are for courtesy purposes only. These listings are not intended to be comprehensive. It is the responsibility of the Permittee and those performing the work to be knowledgeable about all applicable laws and regulations.
8. Washington County has the authority to designate the location where lines, fixtures and facilities may be located, and subject to ORS 758.025 may order the location of any such line, fixture or facility to be changed when deemed expedient by the County. Any line, fixture or facility erected or remaining in a different location upon such road than that designated in any order of the County is a public nuisance and may be abated accordingly.
9. Obtain any other permits, licenses, or authorizations required by other utilities, public agencies, or organizations for performing work authorized under this permit.
10. 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 952-001-0100. You may obtain copies of the rules by calling the center. The telephone number for the Oregon Utility Notification Center is (503) 232-1987, (800) 332-2344, or 811. You can also visit www.digsafelyoregon.com for more information. The Oregon Utility Notification Center One Call locates telephone number in the greater Portland Metropolitan area is (503) 246-6699.
11. Permittee shall contact the County, using one of the three *Contact Options* below, at least one (1) business day prior to the following milestones:
 - a) Start of construction – For notification purposes only. Formal inspection not required to commence construction. Indicate that inspection request is for start of construction.
 - b) Concrete form inspection – Concrete shall not be placed until forms have passed formal inspection.
 - c) Pre-paving inspection – Paving shall not be performed until site has passed formal inspection.
 - d) A break in construction greater than three (3) days (excluding holidays and weekend) – For notification purposes only.
 - e) Completion of construction – Use "Final" inspection code to request inspection after all permitted work is complete.

Coordinate with Washington County for inspection and TCP review:

Andrew Davidson 971-348-7667

Coordinate with Washington County and Kerr Contractors for site access and schedule:

Scott Miller Washington County Utility Coordinator 971-708-3042

Andrew Davidson Washington County inspector 971-348-7667

Kacy Carter Kerr Contractors 971-235-5024

13. Construct the permitted activity with materials, equipment, labor, and workmanship to meet or exceed the relevant specifications established in the Washington County *Road Design and Construction Standards* (Ordinance #738 as adopted January 27, 2011), the 2018 Oregon Standard Specifications for Construction, and any special conditions or provisions established by this permit. Ensure quality control is maintained for all work performed and correct any work that does not meet the minimum standards and specifications.



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14. Establish and maintain work zone traffic control in compliance with the *Oregon Temporary Traffic Control Handbook for Operations of Three Days or Less* (December 2011) any time vehicle or pedestrian traffic is influenced by the work. For work requiring devices in place longer than three (3) days, a site specific traffic control plan based on the principles in Part 6 of the MUTCD, the Oregon Supplement and ODOT's 2015 Standard Drawings TM800 – TM871, is required. All traffic control devices shall meet or exceed the NCHRP 350 requirements for crashworthiness. Completed signal shut down requests must be received by the County a minimum of 3 working days prior to any proposed signal shut down.
15. Accommodate all road users at all times including motorists, bicyclists, pedestrians, and those with disabilities or impairments. Install and maintain additional temporary signing and traffic control devices for the control of non-motorized vehicles and pedestrians where a reasonable volume of these users are expected and where work is expected to last longer than one hour. Maintain safe accessibility or provide suitable alternate routes in, through, or around work areas.
16. Limit work & activity (construction, restoration, erosion control, etc) to no more than 1,000 lineal feet at any one time.
17. Impact no more than one consecutive intersection at a time.
18. Do not store or park any equipment, vehicles, or materials in the right-of-way overnight unless approved by Washington County.
19. Utilize construction materials and methods to maintain at least one travel lane at all times. Adjust work zone to ensure no vehicles are stopped, held or restricted for more than fifteen (15) minutes. Lane restrictions may be allowed in accordance with an approved traffic control plan and according to the following table:

Functional Classification	Mon – Fri (except on day preceding holiday)		Day preceding a holiday
	Earliest Start Time	Latest End Time	Latest End Time
Arterial	9:00 a.m.	3:30 p.m.	12:00 p.m.
Collector/ Neighborhood Route	8:30 a.m.	4:00 p.m.	
Local	8:00 a.m.	5:00 p.m.	

20. Suspend work on the following holidays: **New Year's Day** (Jan 1), **Martin Luther King Day** (3rd Mon in Jan), **President's Day** (3rd Mon in Feb), **Memorial Day** (last Monday in May), **Independence Day** (Jul 4), **Labor Day** (1st Monday in Sept), **Veteran's Day** (Nov 11) **Thanksgiving** (4th Thursday & 4th Friday in Nov), **Christmas Day** (Dec 25).
 When a holiday falls on a Saturday, the observed holiday is the preceding Friday.
 When a holiday falls on a Sunday, the observed holiday is the following Monday.
21. Comply with Washington County's *Best Management Practices for Routine Road Maintenance* (December 2010) as well as Clean Water Services' *Erosion Prevention and Sediment Control Standards* and the appropriate best management practices outlined in Clean Water Services' *Design and Construction Standards*.

 Ensure all equipment is clean and leak free with sufficient and appropriate spill prevention and clean up materials on site and the personnel involved with the permitted activity are familiar with and proficient in the use of these materials. When not being actively used for the permitted activity, remove construction equipment from the right-of-way. Do not park, re-fuel, or service equipment or store hazardous materials directly over or uphill from catch basins, drainage inlets, or manholes or within 150 feet of any wetland, waterway, or resource water. When reasonably available, re-fuel over an impervious surface and use absorbent pads to collect spilled fuel.

 Install and maintain appropriate erosion and sediment control devices, in accordance with an approved Erosion and Sediment Control Plan (ESCP) to ensure that all catch basins, drainage inlets, manholes, wetlands, waterways, and resource waters are sufficiently protected from erosion and sediment. In the absence of a formal ESCP, comply with Clean Water Services' *Erosion Prevention and Sediment Control Standards*.
22. Preserve and protect all public and private infrastructure ensuring that these facilities continue to properly function during the course of the permitted activity, including, but not limited to, underground storm drainage systems, open drainage systems, culverts, roof drains, field inlets and drains, irrigation systems, traffic control devices, and illumination.
23. Restore all existing infrastructure, affected by the permit activity, to original or better condition. Restoration includes, but is not limited to, the road surface, base and subgrade, pavement markings, drainage facilities, signs, safety appurtenances, bicycle and pedestrian facilities, vegetation or landscaping and any other feature affected by the activity. Restoration of the right-of-way shall be completed in a timely manner and to the County's satisfaction.
24. Re-establish surfaces to their pre-existing grade at the end of each work day. For Asphaltic surfaces or Portland cement concrete, interim re-establishment shall be with either hot mix or cold mix asphaltic concrete and shall be in place for no longer than fourteen (14) calendar days. Beyond fourteen (14) calendar days, permanent right-of-way restoration shall be used unless approved by the County. STEEL PLATES are NOT an acceptable interim solution unless prior approval has been obtained through Washington County.

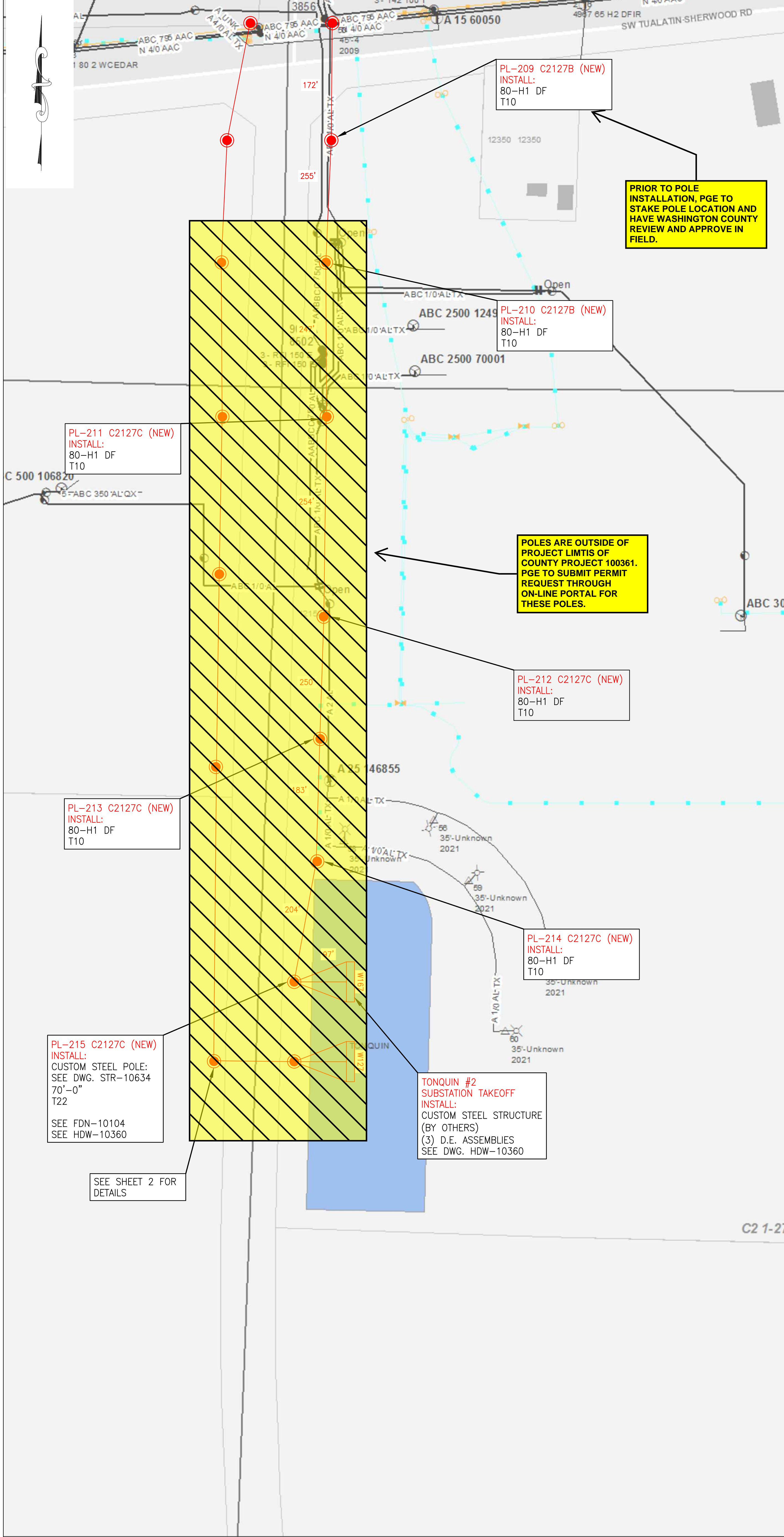


GENERAL CONDITIONS

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25. Installation of underground utilities or any other buried appurtenance shall be at least thirty (30) inches below grade. All mechanically extracted, cylindrical cores, up to 8" diameter, taken from the paved section of roadway shall be restored according to the County's "Core Hole" Detail.
26. Concrete panels shall not be cut without express written permission from Washington County. If concrete panels, curbs, sidewalks or driveways are disturbed or damaged, replacement of full panels, to the nearest cold joint, shall be required. Prior to pouring concrete. Permittee shall submit concrete mix design for review and approval by Washington County and arrange for a form inspection.
27. Preserve and protect survey monuments, public land corners and any accessory associated with these features. If interference, removal, or destruction is necessary, comply with ORS 209.140 through ORS 209.155. Additionally, utility infrastructure may not be placed within one foot of a survey monument location noted on a subdivision or partition plat, in accordance with ORS 92.044. The Washington County Surveyor can be reached at (503) 846-8723.
28. Comply with Washington County's Noise Control Ordinance established in Chapter 8.24 of the County's *Code of Ordinances*. Acquire a variance to the noise ordinance, when needed.
29. Interaction with the County, other agencies, service providers and the public shall be in a professional, courteous and timely manner.
30. Maintain a complete set of the permit, approved plans, traffic control plans, erosion control plans, and any conditions or special provisions at the job site and have them available for review, upon request.
31. Grant the County immediate access to the permitted work area. The Permittee shall appoint and assign a foreman or competent person that shall be available as the County's point of contact while work is being performed. If this foreman or competent person is unavailable while work is being performed, the Permittee shall provide the County with an alternate. The County reserves the right to enter the work area covered under this permit for any reason.
32. Permits are valid for one year from date of issuance and all work must be completed in that time period. Expired permits, without an approved final inspection, may have a notice placed in their property record related to the permit status.
33. If the requirements for this permit have not been met, there may be a denial or delay with the issuance of other permits.
34. Guarantee all permitted work for a minimum of one year from date of completion. County may require a cash deposit during the guarantee period depending on the type of work. In the event that the Permittee fails to perform warranty work in a timely manner to the satisfaction of Washington County, the deficient work may be corrected, mitigated, or abated by the County. Permittee shall be responsible for all expenses associated with work done by the County to correct, mitigate, or abate a deficiency.
35. Additional fees may be required if there is a substantial change in the scope of work which requires further review by Washington County or if more than three site visits are needed for inspection purposes. Additional inspection fees will be charged in accordance with the adopted fee schedule.
36. Include the permit number in all written and verbal correspondence with the County.
37. Comply with the Right-of-Way Permit Insurance Requirements (i.e. Tier 1, Tier 2, or Tier 3) determined for this permit.

PERMIT APPROVAL



OVERHEAD LEGEND:

- INSTALL FACILITIES
- REMOVE FACILITIES
- TRANSFER / MODIFY FACILITIES

POLES:

- HT-CL — POLE CLASS (1, 2, 3, 4, H1, H2, S)
- POLE HEIGHT (FEET)

ANCHORS:

ANCHORS:	10" SCL HELIX	10" TRIPLE HELIX	14" SCL H/T	10" EXPANDING	28" PLATE
A (LEAD) (LBS)					
ANCHOR CODE	A1	A3	A5	A7	A8

GUYING:

G (POS.-LBS.)	5/8" O.H.	3/8" O.H.	7/8" O.H.	1/2" O.H.	3/8" D.G.	7/8" D.G.	1/2" D.G.
1 GUY	G1	G4	G7	G10	G16	G19	G22
2 GUYS	G2	G5	G8	G11	G17	G20	G23
3 GUYS	G3	G6	G9	G12	G18	G21	G24

FRAMING: TRANSMISSION & DISTRIBUTION (SEE COMMENTS BELOW)

- T10** — FRAME TRANSMISSION – STD LC10754 APS
FRAMING POLY INSULATORS WMS MU 1013
- T22** — FRAME TRANSMISSION – STD LC10755 DVS
FRAMING WITH POLYMER INSULATORS WMS MU 1016

NOTES:

- THE FIRST STRUCTURE ADJACENT TO THE MAINLINE ON ALL OVERHEAD TAPS MAY REQUIRE ADDITIONAL WORK. THESE ISSUES WILL BE DEALT WITH ON A CASE BY CASE BASIS ON THE RECOMMENDATION OF PGE ENGINEERING.
- CONTRACTOR SHALL PERFORM FULL UTILITY LOCATES PRIOR TO ANY EXCAVATION WORK, IN ACCORDANCE TO OREGON STATUTE.

PL-209 C2127B (NEW)
INSTALL:
80-H1 DF
T10

**PRIOR TO POLE
INSTALLATION, PGE TO
STAKE POLE LOCATION AND
HAVE WASHINGTON COUNTY
REVIEW AND APPROVE IN
FIELD.**

PL-210 C2127B (NEW)
INSTALL:
80-H1 DF
T10

PL-211 C2127C (NEW)
INSTALL:
80-H1 DF
T10

**POLES ARE OUTSIDE OF
PROJECT LIMITS OF
COUNTY PROJECT 100361.
PGE TO SUBMIT PERMIT
REQUEST THROUGH
ON-LINE PORTAL FOR
THESE POLES.**

PL-212 C2127C (NEW)
INSTALL:
80-H1 DF
T10

PL-213 C2127C (NEW)
INSTALL:
80-H1 DF
T10

PL-214 C2127C (NEW)
INSTALL:
80-H1 DF
T10

PL-215 C2127C (NEW)
INSTALL:
CUSTOM STEEL POLE:
SEE DWG. STR-10634
70'-0"
T22
SEE FDN-10104
SEE HDW-10360

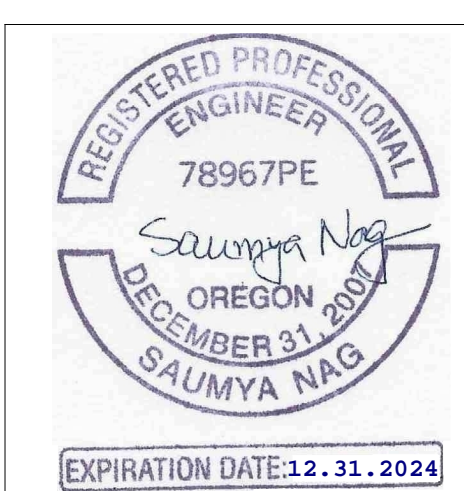
**TONQUIN #2
SUBSTATION TAKEOFF
INSTALL:
CUSTOM STEEL STRUCTURE
(BY OTHERS)
(3) D.E. ASSEMBLIES
SEE DWG. HDW-10360**

SEE SHEET 2 FOR
DETAILS

CONDUCTORS:
— INSTALL 795 KCMIL ACSS "DRAKE" (TRANSMISSION)



P1



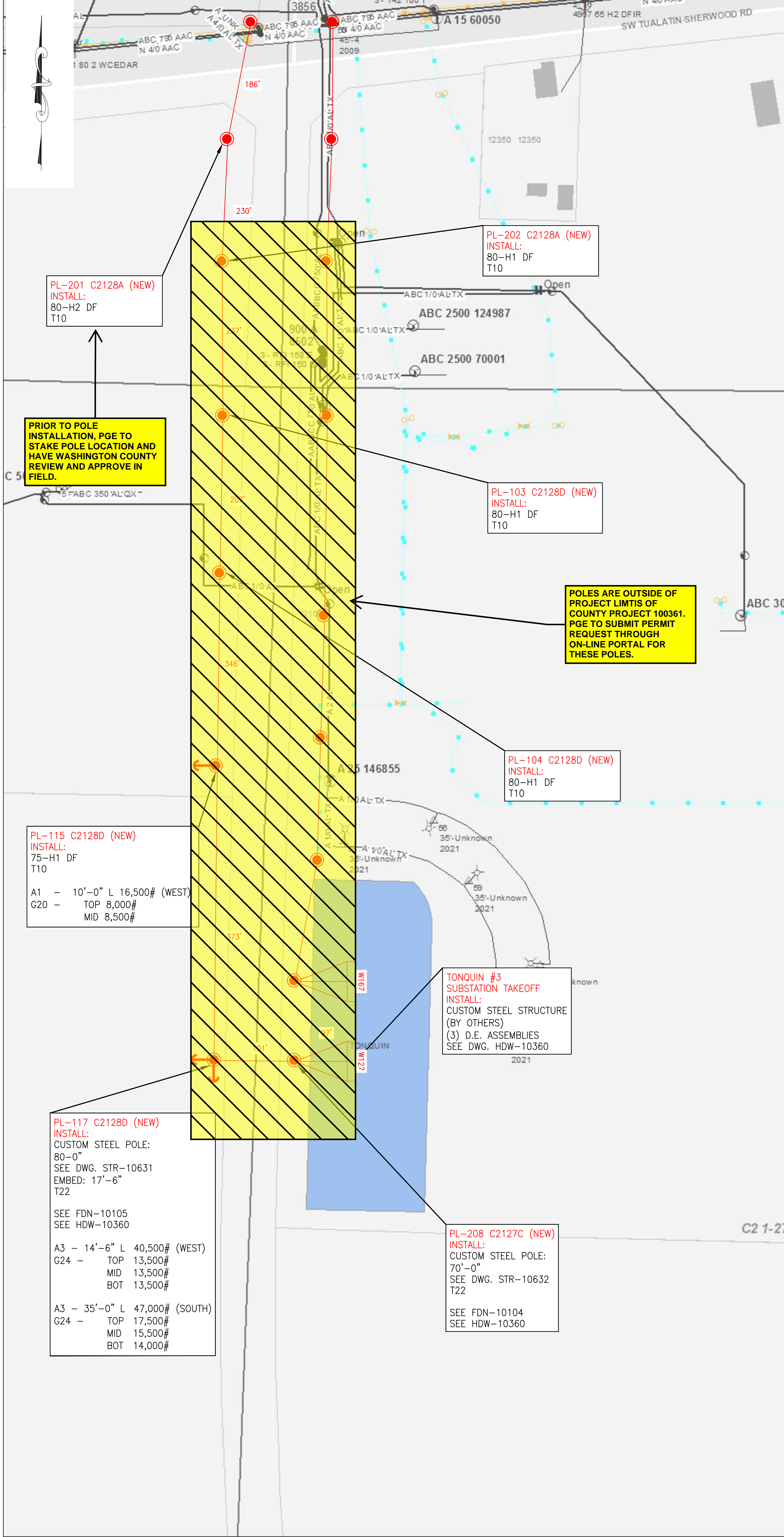
CALL 811 BEFORE YOU DIG
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0050. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER ADMINISTRATION @ (503-232-1987)
TO REQUEST UTILITY LOCATES CALL THE OREGON UTILITY NOTIFICATION CENTER, 811 AT LEAST 2 BUSINESS DAYS PRIOR TO EXCAVATION.

Know what's below. Call before you dig.

ANY DEVIATION FROM THIS DESIGN MUST BE APPROVED BY PGE PROJECT MANAGER

NO.	DATE	REVISION AND RECORD OF ISSUE	DWN	DES	CHK
1	01/18/23	ISSUE FOR CONSTRUCTION	TJP	ARP	EKS
0	01/13/23	ISSUE FOR CONSTRUCTION	TJP	ARP	EKS

PGE CONSTRUCTION DRAWING
AS-BUILT VERIFICATION & NESC VIOLATIONS CORRECTED
This document accurately represents FIELD Construction.
Foreman: _____ Date: _____
General Foreman: _____ Date: _____
(Signature only required for field construction changes.)
SDPM/ENG REVIEW: _____ ASBUILT BY DESIGNER: _____
DATE: 01/13/2023 SCALE: NTS ACCOUNT: N/A AWO: 1000009928 JOB NO: M2851163
TITLE: OVERHEAD JOB SKETCH DRAWING NO. EXH-10292
GROUP: MERIDIAN-TONQUIN/SHERWOOD-TONQUIN 115 KV SIZE: 22X34
LOCATION: TUALATIN, OREGON
DESCRIPTION: 115 KV TRANSMISSION LINE JOB SKETCH
COUNTY: WASHINGTON SECTION(S): C2127C & C2127B WORK WITH SHEET: M2851163 1 OF 4
ENGINEERING: ALLYSE PAGANO PHONE: (913)458-9284 DRAWN BY: BLACK & VEATCH REV 1
3700 SE 17TH AVE. PORTLAND, OR 97202 © PORTLAND GENERAL ELECTRIC CO. - ALL RIGHTS RESERVED



OVERHEAD LEGEND:

- INSTALL FACILITIES
- REMOVE FACILITIES
- TRANSFER / MODIFY FACILITIES

POLES:

HT-CL — POLE CLASS (1, 2, 3, 4, H1, H2, S)
 — POLE HEIGHT (FEET)

ANCHORS:

ANCHORS: A (LEAD) (LBS)	10" SCL HELIX	10" TRIPLE HELIX	14" SCL H/T	10" EXPANDING	28" PLATE
	ANCHOR CODE	A1	A3	A5	A7

GUYING:

G (POS.-LBS.)	5/8" O.H.	3/8" O.H.	7/8" O.H.	1/2" O.H.	3/8" D.G.	7/8" D.G.	1/2" D.G.
	1 GUY	G1	G4	G7	G10	G16	G19
2 GUYS	G2	G5	G8	G11	G17	G20	G23
3 GUYS	G3	G6	G9	G12	G18	G21	G24

FRAMING: TRANSMISSION & DISTRIBUTION (SEE COMMENTS BELOW)

T10 — FRAME TRANSMISSION – STD LC10754 APS
FRAMING POLY INSULATORS WMS MU 1013

T22 — FRAME TRANSMISSION – STD LC10755 DVS
FRAMING WITH POLYMER INSULATORS WMS MU 1016

NOTES:

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- CONTRACTOR SHALL PERFORM FULL UTILITY LOCATES PRIOR TO ANY EXCAVATION WORK, IN ACCORDANCE TO OREGON STATUTE.

PRIOR TO POLE INSTALLATION, PGE TO STAKE POLE LOCATION AND HAVE WASHINGTON COUNTY REVIEW AND APPROVE IN FIELD.

POLES ARE OUTSIDE OF PROJECT LIMITS OF COUNTY PROJECT 100361. PGE TO SUBMIT PERMIT REQUEST THROUGH ON-LINE PORTAL FOR THESE POLES.

PL-115 C2128D (NEW)
 INSTALL:
 75-H1 DF
 T10

A1 - 10'-0" L 16,500# (WEST)
 G20 - TOP 8,000#
 MID 8,500#

PL-117 C2128D (NEW)
 INSTALL:
 CUSTOM STEEL POLE:
 80'-0"
 SEE DWG. STR-10631
 EMBED: 17'-6"
 T22

SEE FDN-10105
 SEE HDW-10360

A3 - 14'-6" L 40,500# (WEST)
 G24 - TOP 13,500#
 MID 13,500#
 BOT 13,500#

A3 - 35'-0" L 47,000# (SOUTH)
 G24 - TOP 17,500#
 MID 15,500#
 BOT 14,000#

TONQUIN #3 SUBSTATION TAKEOFF
 INSTALL:
 CUSTOM STEEL STRUCTURE (BY OTHERS)
 (3) D.E. ASSEMBLIES
 SEE DWG. HDW-10360

PL-208 C2127C (NEW)
 INSTALL:
 CUSTOM STEEL POLE:
 70'-0"
 SEE DWG. STR-10632
 T22

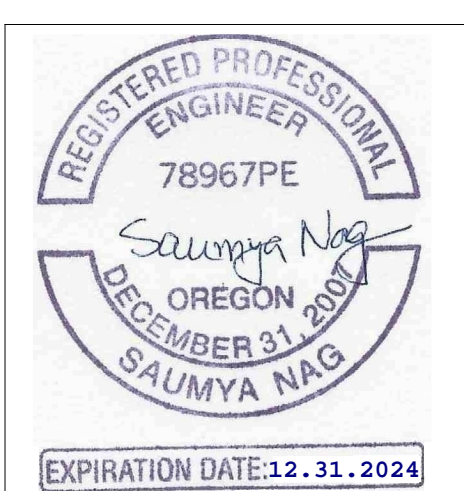
SEE FDN-10104
 SEE HDW-10360

CONDUCTORS:

— INSTALL 795 KCMIL ACSS "DRAKE" (TRANSMISSION)



P1



CALL 811 BEFORE YOU DIG

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 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER ADMINISTRATION @ (503-232-1987)

TO REQUEST UTILITY LOCATES CALL THE OREGON UTILITY NOTIFICATION CENTER, 811 AT LEAST 2 BUSINESS DAYS PRIOR TO EXCAVATION.

Know what's below. Call before you dig.

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NO.	DATE	REVISION AND RECORD OF ISSUE	DWN	DES	CHK
1	01/18/23	ISSUE FOR CONSTRUCTION	TJP	ARP	EKS
0	01/13/23	ISSUE FOR CONSTRUCTION	TJP	ARP	EKS

PGE CONSTRUCTION DRAWING

AS-BUILT VERIFICATION & NESC VIOLATIONS CORRECTED

This document accurately represents FIELD Construction.

Foreman: _____ Date: _____

General Foreman: _____ Date: _____
 (Signature only required for field construction changes.)

SDPM/ENG REVIEW: _____ ASBUILT BY DESIGNER: _____

DATE: 01/13/2023 SCALE: NTS ACCOUNT: N/A AWO: 1000009928 JOB NO: M2581163

TITLE: OVERHEAD JOB SKETCH DRAWING NO. EXH-10292

GROUP: MERIDIAN-TONQUIN/SHERWOOD-TONQUIN 115 KV SIZE: 22X34

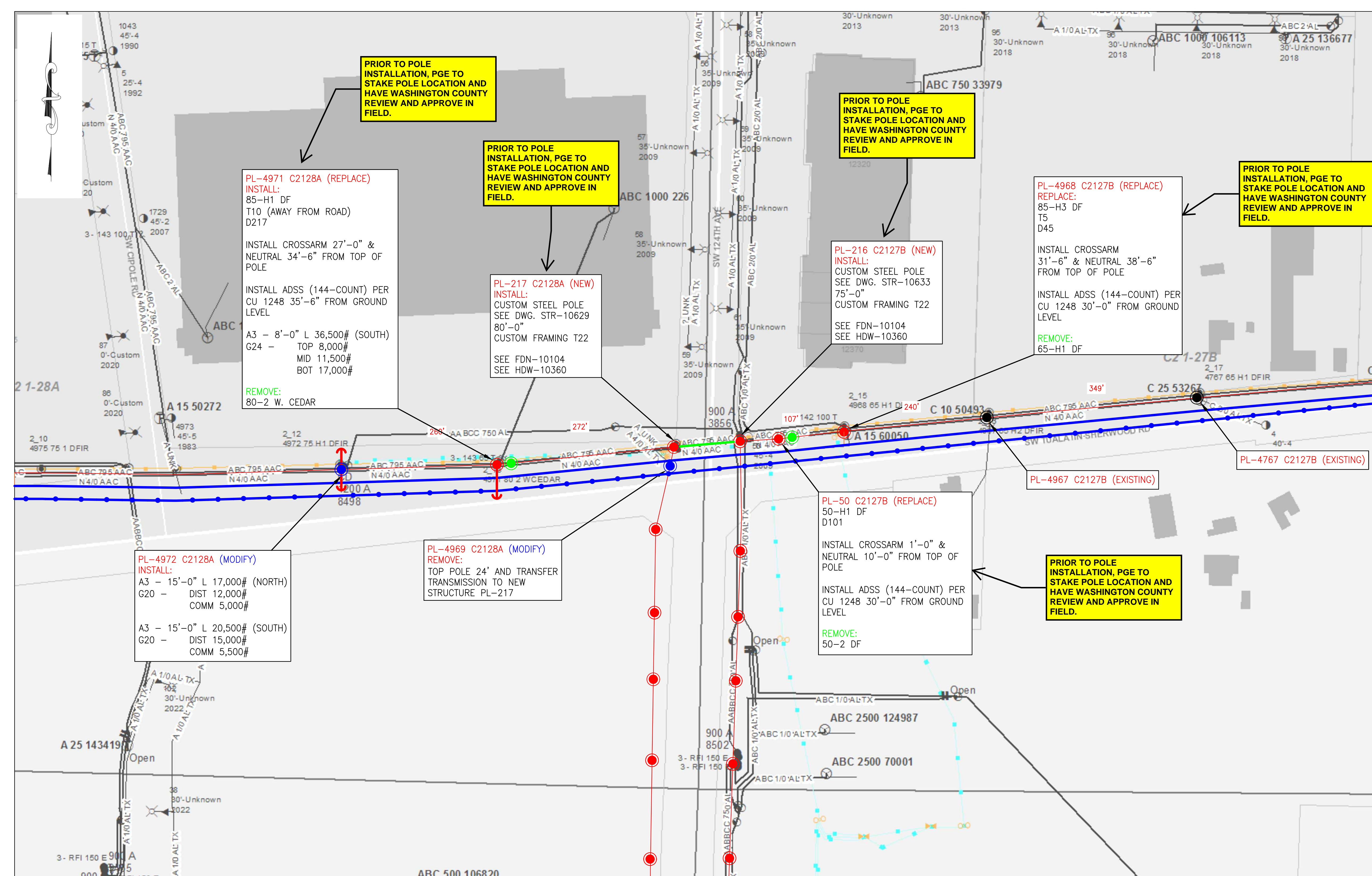
LOCATION: TUALATIN, OREGON

DESCRIPTION: 115 KV TRANSMISSION LINE JOB SKETCH

COUNTY: WASHINGTON SECTION(S): C2127C, C2128D, C2128A WORK WITH SHEET: M2851163 2 OF 4

ENGINEERING: ALLYSE PAGANO PHONE: (913)458-9284 DRAWN BY: BLACK & VEATCH REV 1

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OVERHEAD LEGEND:

- INSTALL FACILITIES
- REMOVE FACILITIES
- TRANSFER / MODIFY FACILITIES

- POLES:**
- HT-CL — POLE CLASS (1, 2, 3, 4, H1, H2, S)
 - POLE HEIGHT (FEET)

ANCHORS:

	10" SGL HELIX	10" TRIPLE HELIX	14" SGL H/T	10" EXPANDING	28" PLATE
A (LEAD)	A1	A3	A5	A7	A8
(LBS)					

GUYING:

G (POS.-LBS.)	3/8" O.H.	3/8" O.H.	3/8" O.H.	3/8" O.H.	3/8" D.G.	3/8" D.G.	3/8" D.G.
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FRAMING: TRANSMISSION & DISTRIBUTION (SEE COMMENTS BELOW)

- T5** — FRAME TRANSMISSION — STD LC10754 THS FRAMING (POLY INSULATORS) WMS MU 1013
- T10** — FRAME TRANSMISSION — STD LC10754 APS FRAMING (POLY INSULATORS) WMS MU 1013
- T22** — FRAME TRANSMISSION — STD LC10755 DVS FRAMING WITH POLYMER INSULATORS WMS MU 1016
- CU1248** — ADSS FIBER OPTIC CABLE — LC11410; ANGLE SUSPENSION UNIT
- D217** — FRAMING DISTRIBUTION — LC10722 WMS MU0217, (3PH 8FT UNDERBUILD SGL. DBL. DE. FIBERGLASS)
- D101** — FRAME DISTRIBUTION — LC10729, MU 0101 (3PH 8FT SGL HVY, TANG, POST)
- D45** — FRAMING DISTRIBUTION — LC10727, WMS MU 0045 (3PH 8FT UNDERBUILD SGL HVY, TANG, POST)

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- CONTRACTOR SHALL PERFORM FULL UTILITY LOCATES PRIOR TO ANY EXCAVATION WORK, IN ACCORDANCE TO OREGON STATUTE.

CONDUCTORS:

- REMOVE 795 KCMIL ACSS "DRAKE" (TRANSMISSION)
- TRANSFER 795 KCMIL ACSS "DRAKE" (TRANSMISSION)
- TRANSFER 795 KCMIL AAC "ARBUTUS" (DISTRIBUTION)
- TRANSFER 4/0 AWG AAC "OXLIP" (NEUTRAL)
- TRANSFER OFS-AT-3BE27DT-144-TPDE ADSS FIBER OPTIC CABLE (COMMUNICATION)

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BLACK & VEATCH
 ANY DEVIATION FROM THIS DESIGN MUST BE APPROVED BY PGE PROJECT MANAGER

THINK SAFETY FIRST! **P1**

PGE CONSTRUCTION DRAWING
AS-BUILT VERIFICATION & NESC VIOLATIONS CORRECTED
 This document accurately represents FIELD Construction.
 Foreman: _____ Date: _____
 General Foreman: _____ Date: _____
 (Signature only required for field construction changes.)
 SDPM/ENG REVIEW: _____ ASBUILT BY DESIGNER: _____
 DATE: 01/13/2023 SCALE: NTS ACCOUNT: N/A AWD: 1000009928 JOB NO: M2851163
 TITLE: OVERHEAD JOB SKETCH DRAWING NO: EXH-10292
 CIRCUIT: MERIDIAN-TONQUIN/SHERWOOD-TONQUIN 115 KV SIZE: 22X34
 LOCATION: TUALATIN, OREGON
 DESCRIPTION: 115 KV TRANSMISSION LINE JOB SKETCH
 COUNTY: WASHINGTON SECTION(S): C2127B & C2128A WORK WITH SHEET: M2851163 3 OF 4
 DESIGN BY: ALLYSE PAGANO PHONE: (913)458-9284 BLACK & VEATCH DRAWN BY: _____
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NO.	DATE	REVISION AND RECORD OF ISSUE	DWN	DES	CHK
0	01/13/23	ISSUE FOR CONSTRUCTION	TJP	ARP	EKS

SHERWOOD-TONQUIN 115 KV TRANSMISSION LINE							
SAG DATA FOR D.E. SECTION: 217 C2128A - 117 C2128D							
RULING SPAN: 291'-0"							
795 KCMIL ACSS 'DRAKE' DESIGN TENSION: 5000# @ NESC 250B INITIAL							
SPAN LENGTH (FT)		172'-9"	229'-6"	237'-7"	206'-10"	346'-1"	372'-8"
AMBIENT AIR TEMPERATURE (°F)	HORIZONTAL TENSION (LBS.)	VERTICAL SAG 217 C2128A - 201 C2128A	VERTICAL SAG 201 C2128A - 202 C2128A	VERTICAL SAG 202 C2128A - 203 C2128D	VERTICAL SAG 203 C2128D - 104 C2128D	VERTICAL SAG 104 C2128D - 115 C2128D	VERTICAL SAG 115 C2128D - 117 C2128D
30	3752	1'-1"	1'-11"	2'-1"	1'-7"	4'-4"	5'-1"
40	3523	1'-2"	2'-0"	2'-2"	1'-8"	4'-8"	5'-5"
50	3307	1'-3"	2'-2"	2'-4"	1'-9"	5'-0"	5'-9"
60	3105	1'-4"	2'-4"	2'-6"	1'-11"	5'-3"	6'-1"
70	2925	1'-5"	2'-6"	2'-8"	2'-0"	5'-7"	6'-6"
80	2755	1'-6"	2'-7"	2'-10"	2'-1"	6'-0"	6'-11"
90	2605	1'-7"	2'-9"	3'-0"	2'-3"	6'-3"	7'-3"
120	2235	1'-10"	3'-3"	3'-5"	2'-7"	7'-4"	8'-6"

SHERWOOD-TONQUIN 115 KV TRANSMISSION LINE		
SAG DATA FOR D.E. SECTION: 117 C2128D - 208 C2127C		
RULING SPAN: 99'-11"		
795 KCMIL ACSS 'DRAKE' DESIGN TENSION: 2000# @ NESC 250B INITIAL		
SPAN LENGTH (FT)		100'-1"
AMBIENT AIR TEMPERATURE (°F)	HORIZONTAL TENSION (LBS.)	VERTICAL SAG 117 C2128D - 208 C2127C
30	1208	1'-2"
40	1094	1'-3"
50	1000	1'-4"
60	925	1'-6"
70	863	1'-7"
80	811	1'-8"
90	765	1'-10"
120	670	2'-1"

SHERWOOD-TONQUIN 115 KV TRANSMISSION LINE		
SAG DATA FOR D.E. SECTION: 208 C2127C - TONQUIN SUB #2		
RULING SPAN: 95'-4"		
795 KCMIL ACSS 'DRAKE' DESIGN TENSION: 2000# @ NESC 250B INITIAL		
SPAN LENGTH (FT)		96'-8"
AMBIENT AIR TEMPERATURE (°F)	HORIZONTAL TENSION (LBS.)	VERTICAL SAG 208 C2127C - TONQUIN SUB #2
30	1215	1'-1"
40	1089	1'-2"
50	991	1'-4"
60	913	1'-5"
70	847	1'-6"
80	793	1'-8"
90	747	1'-9"
120	652	2'-0"

MERIDIAN-TONQUIN 115 KV TRANSMISSION LINE								
SAG DATA FOR D.E. SECTION: 216 C2127B - 215 C2127C								
RULING SPAN: 229'-8"								
795 KCMIL ACSS 'DRAKE' DESIGN TENSION: 5000# @ NESC 250B INITIAL								
SPAN LENGTH (FT)		155'-0"	254'-7"	246'-11"	253'-7"	249'-9"	183'-2"	203'-4"
AMBIENT AIR TEMPERATURE (°F)	HORIZONTAL TENSION (LBS.)	VERTICAL SAG 216 C2127B - 209 C2127B	VERTICAL SAG 209 C2127B - 210 C2127B	VERTICAL SAG 210 C2127B - 211 C2127C	VERTICAL SAG 211 C2127C - 212 C2127C	VERTICAL SAG 212 C2127C - 213 C2127C	VERTICAL SAG 213 C2127C - 214 C2127C	VERTICAL SAG 214 C2127C - 215 C2127C
30	3935	0'-10"	2'-3"	2'-1"	2'-3"	2'-2"	1'-2"	1'-5"
40	3650	0'-11"	2'-5"	2'-3"	2'-5"	2'-4"	1'-3"	1'-7"
50	3380	1'-0"	2'-7"	2'-6"	2'-7"	2'-6"	1'-4"	1'-8"
60	3122	1'-1"	2'-10"	2'-8"	2'-10"	2'-9"	1'-6"	1'-10"
70	2885	1'-2"	3'-1"	2'-11"	3'-1"	3'-0"	1'-7"	2'-0"
80	2675	1'-3"	3'-4"	3'-1"	3'-3"	3'-2"	1'-9"	2'-1"
90	2480	1'-4"	3'-7"	3'-4"	3'-7"	3'-5"	1'-10"	2'-3"
120	2030	1'-7"	4'-4"	4'-1"	4'-4"	4'-2"	2'-3"	2'-9"

MERIDIAN-TONQUIN 115 KV TRANSMISSION LINE		
SAG DATA FOR D.E. SECTION: 215 C2127C - TONQUIN SUB #3		
RULING SPAN: 94'-10"		
795 KCMIL ACSS 'DRAKE' DESIGN TENSION: 2000# @ NESC 250B INITIAL		
SPAN LENGTH (FT)		96'-0"
AMBIENT AIR TEMPERATURE (°F)	HORIZONTAL TENSION (LBS.)	VERTICAL SAG 215 C2127C - TONQUIN SUB #3
30	1204	1'-1"
40	1083	1'-2"
50	984	1'-4"
60	905	1'-5"
70	841	1'-6"
80	787	1'-7"
90	742	1'-9"
120	647	2'-0"



BLACK & VEATCH

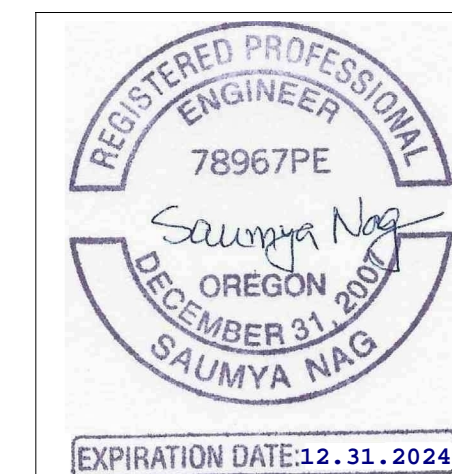
ANY DEVIATION FROM THIS DESIGN MUST BE APPROVED BY PGE PROJECT MANAGER

CALL 811 BEFORE YOU DIG
 OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 852-001-0010 THROUGH 852-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER ADMINISTRATION @ (503)232-1987
 TO REQUEST UTILITY LOCATES CALL THE OREGON UTILITY NOTIFICATION CENTER, 811 AT LEAST 2 BUSINESS DAYS PRIOR TO EXCAVATION.



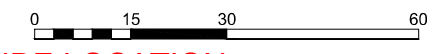
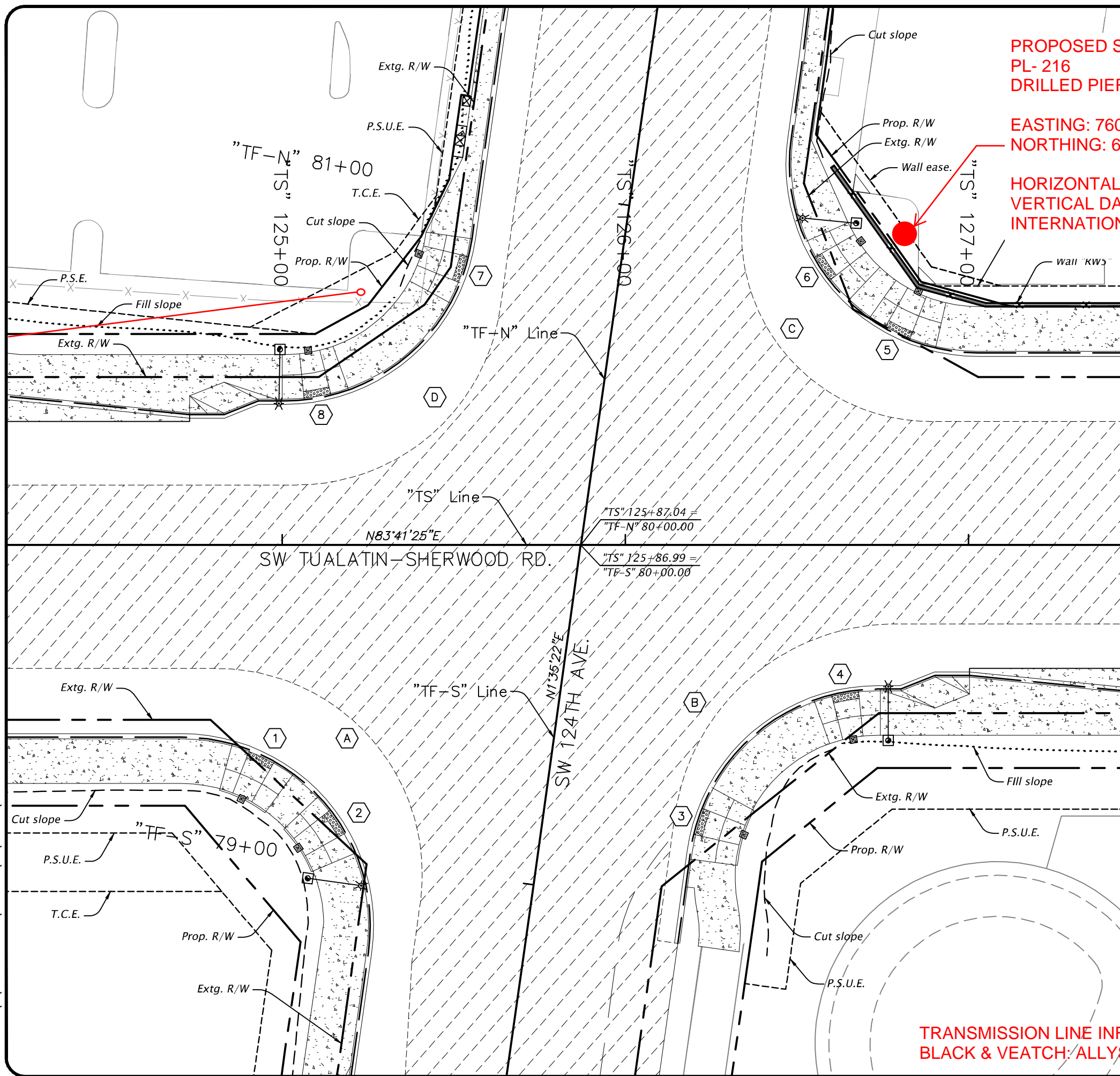
Know what's below. Call before you dig.

NO.	DATE	REVISION AND RECORD OF ISSUE	DWN	DES	CHK
1	01/18/23	ISSUE FOR CONSTRUCTION	ARP	ARP	EKS
0	01/13/23	ISSUE FOR CONSTRUCTION	ARP	ARP	EKS



PGE CONSTRUCTION DRAWING
AS-BUILT VERIFICATION & NESC VIOLATIONS CORRECTED
 This document accurately represents FIELD Construction.
 Foreman: _____ Date: _____
 General Foreman: _____ Date: _____
 (Signature only required for field construction changes.)
 SDPM/ENG REVIEW: _____ ASBUILT BY DESIGNER: _____
 DATE: 01/13/2023 SCALE: NTS ACCOUNT: N/A AWD: 1000009928 JOB NO: M2851163
 TITLE: STRINGING TABLE DRAWING NO: EXH-10292
 CIRCUIT: MERIDIAN-TONQUIN/SHERWOOD-TONQUIN 115 KV SIZE: 22X34
 LOCATION: TUALATIN, OREGON
 DESCRIPTION: 115 KV TRANSMISSION LINE STRINGING TABLE
 COUNTY: WASHINGTON SECTIONS: VARIES WORK WITH SHEET: M2851163 4 OF 4
 DESIGN BY: ALLYSE PAGANO PHONE: (913)458-9284 DRAWN BY: BLACK & VEATCH REV 1
 © PORTLAND GENERAL ELECTRIC CO. - ALL RIGHTS RESERVED

PATH: P:\WPWX00000172\0400CAD\RH\SHEETS\WPWX0172-INT4.DWG



PROPOSED STRUCTURE LOCATION:
PL- 216
DRILLED PIER DIAMETER = 6'

EASTING: 7609735.242
NORTHING: 629314.864

HORIZONTAL DATUM: NAD83: OREGON NORTH (3601)
VERTICAL DATUM: NAVD88
INTERNATIONAL SURVEY FEET

REGISTERED PROFESSIONAL ENGINEER
 88394PE
 Digitally signed by Conor R. Costigan
 Date: 2022.03.02 09:01:15-08'00'
OREGON
 SEPT. 11, 2018
CONOR R. COSTIGAN
 EXPIRES: 12/31/2023

Curve Data	FL Elevation	TC Offset	"TS" Station	Curb Point
A	187.35'	56.00' Rt.	124+70.62	PC
	187.49'	60.95' Rt.	124+93.42	1/4 Δ
	187.67'	74.91' Rt.	125+12.12	1/2 Δ
	187.84'	95.36' Rt.	125+23.35	3/4 Δ
	188.08'	118.63' Rt.	125+25.08	PT
B	187.29'	89.44' Rt.	126+19.00	PC
	187.11'	70.82' Rt.	126+25.11	1/4 Δ
	187.36'	55.52' Rt.	126+37.36	1/2 Δ
	187.80'	45.49' Rt.	126+54.20	3/4 Δ
	188.03'	42.00' Rt.	126+73.48	PT
C	183.82'	118.74' Lt.	126+48.36	PC
	184.52'	95.44' Lt.	126+50.06	1/4 Δ
	185.07'	74.95' Lt.	126+61.27	1/2 Δ
	185.69'	60.96' Lt.	126+79.98	3/4 Δ
	186.22'	56.00' Lt.	127+02.81	PT
D	185.51'	42.00' Lt.	125+00.83	PC
	185.31'	45.48' Lt.	125+20.07	1/4 Δ
	185.03'	55.46' Lt.	125+36.88	1/2 Δ
	184.74'	70.70' Lt.	125+49.14	3/4 Δ
	184.45'	89.26' Lt.	125+55.28	PT

"TS" Station	Offset to C of ramp at gutter	Description
124+94.17	61.30' Rt.	Combination Sidewalk Ramp
125+16.38	80.49' Rt.	Combination Sidewalk Ramp
126+21.02	80.49' Rt.	Combination Sidewalk Ramp
126+63.99	42.83' Rt.	Combination Sidewalk Ramp
126+79.14	61.35' Lt.	Combination Sidewalk Ramp
126+57.16	80.32' Lt.	Combination Sidewalk Ramp
125+53.20	80.20' Lt.	Combination Sidewalk Ramp
125+10.32	42.83' Lt.	Combination Sidewalk Ramp

- Notes:**
- All dimensions are shown in feet unless otherwise noted.
 - TC shown is the top face of curb location. FL shown is the flowline. For details, see sheet 2B.
 - For curb ramp grading, see sheets 2B-26A thru 2B-26D.
 - See TS sheets for signal equipment locations and details.
 - See GC sheets for wall details.

TRANSMISSION LINE INFORMATION PROVIDED BY BLACK & VEATCH; ALLYSE PAGANO 1/12/23

WASHINGTON COUNTY OREGON
 Department of Land Use & Transportation
DAVID EVANS AND ASSOCIATES INC.
 2100 S River Parkway, Suite 100
 Eugene, OR 97403
 Phone: 503.223.6663

PLOT STAMP: 02/22/22 9:58A RUXM
 CAD: WPWX0172-INT4.DWG, TAB: 2B-26

SW TUALATIN SHERWOOD RD.
 SW LANGER FARMS PKWY. TO SW TETON AVE.
 WASHINGTON COUNTY

INTERSECTION DETAIL

PROJECT NUMBER **100361**
 SHEET NO. **81** OF **611**
 SHEET TITLE **2B-26**



LEGEND:

- FACE OF CURB
- RIGHT OF WAY/PUE
- RIGHT OF WAY

NOTES:

1. BACKGROUND IMAGE EXTRACTED FROM DIGITAL GLOBE FOR REFERENCE ONLY.



0A	ISSUE FOR REVIEW	09/06/22	LSH	ARP	EKS	
REV	DESCRIPTION	DATE	DRN	DSGN	CKD	APPD
PGE PERMITTING DRAWINGS						
DATE:	SCALE:	DRAWING NO.	JOB NO.			
09/06/22	N.T.S.	PERMITTING	M2764853			
	TITLE					SHEET
	WASHINGTON COUNTY PERMITTING DRAWING					22 X 34
	CIRCUIT					
	MERIDIAN-SHERWOOD 115 KV TRANSMISSION LINE					
LOCATION						
TUALATIN, OREGON						
COUNTY						
WASHINGTON						
SECTION(S)						
C21-348, C21-27C						
ENGINEER SUPERVISOR					SHEET	
ERIN SWANSON (B&V)					1 OF 1	
ENGINEER						
ALLYSE PAGANO (B&V)						
PHONE DRAWN BY						
(913)-458-9284 BLACK & VEATCH						
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PROFILE VIEW

MERIDIAN-SHERWOOD 115 KV TRANSMISSION LINE
WASHINGTON COUNTY PERMITTING DRAWING

ISSUE FOR REVIEW

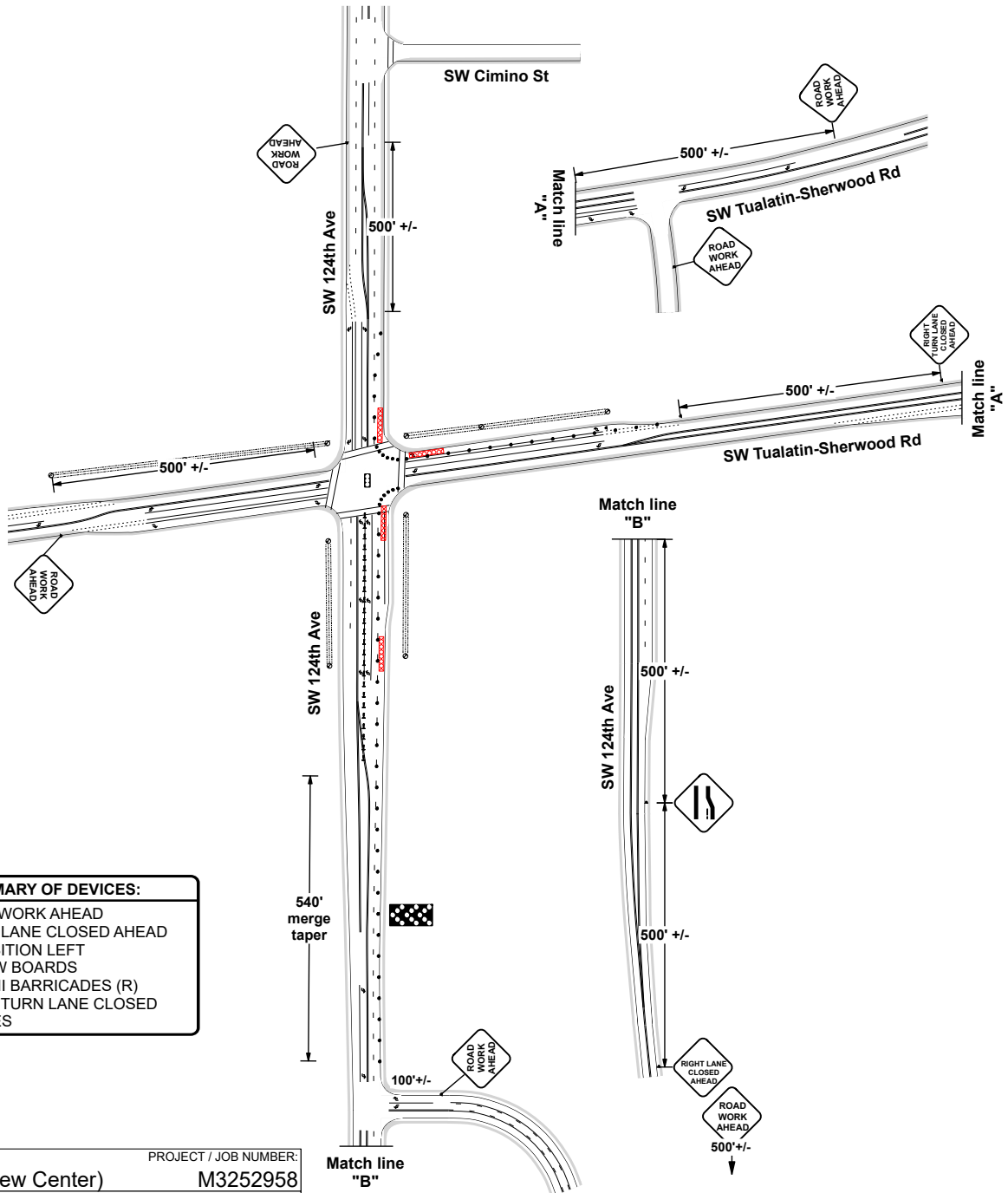
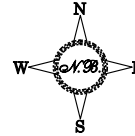
DEVICE SPACING:

TAPER: 40' RADIUS:10'

TANGENT: 40'



Northwest Traffic Control
 Portland (503) 262-6500
 Vancouver (360) 604-5655
 Fax (503) 262-0357
 Toll Free (800) 783-9733



SUMMARY OF DEVICES:
6 X ROAD WORK AHEAD
1 X RIGHT LANE CLOSED AHEAD
1 X TRANSITION LEFT
1 X ARROW BOARDS
1 X TYPE III BARRICADES (R)
1 X RIGHT TURN LANE CLOSED
60 X CONES

OWNER:	PROJECT / JOB NUMBER:
PGE (Portland Line Crew Center)	M3252958
PROJECT NUMBER / LOCATION:	CITY/ STATE:
SW Tualatin-Sherwood Rd & SW 124th Ave	Sherwood, OR.
PRIME CONTRACTOR:	
PGE	
CONTACT NAME / NUMBER:	E-MAIL:
Andy / 503-915-9441	Andy.Brewer@pgn.com
PREPARED BY:	TRAFFIC CONTROL CONTRACTOR:
Nathan Burris 503-262-6500	Northwest Traffic Control Inc.
OR Cert # Exp: 11/30/2022 WA Cert # Exp: 04/30/2025	E-MAIL:
07634 012780	Nathan@nwtci.com

FILE DATE: 12/15/2022

**All signs and devices SHALL conform to the MUTCD / OTTCH.
 Will adjust to fit field conditions.
 Plan NOT to scale.**

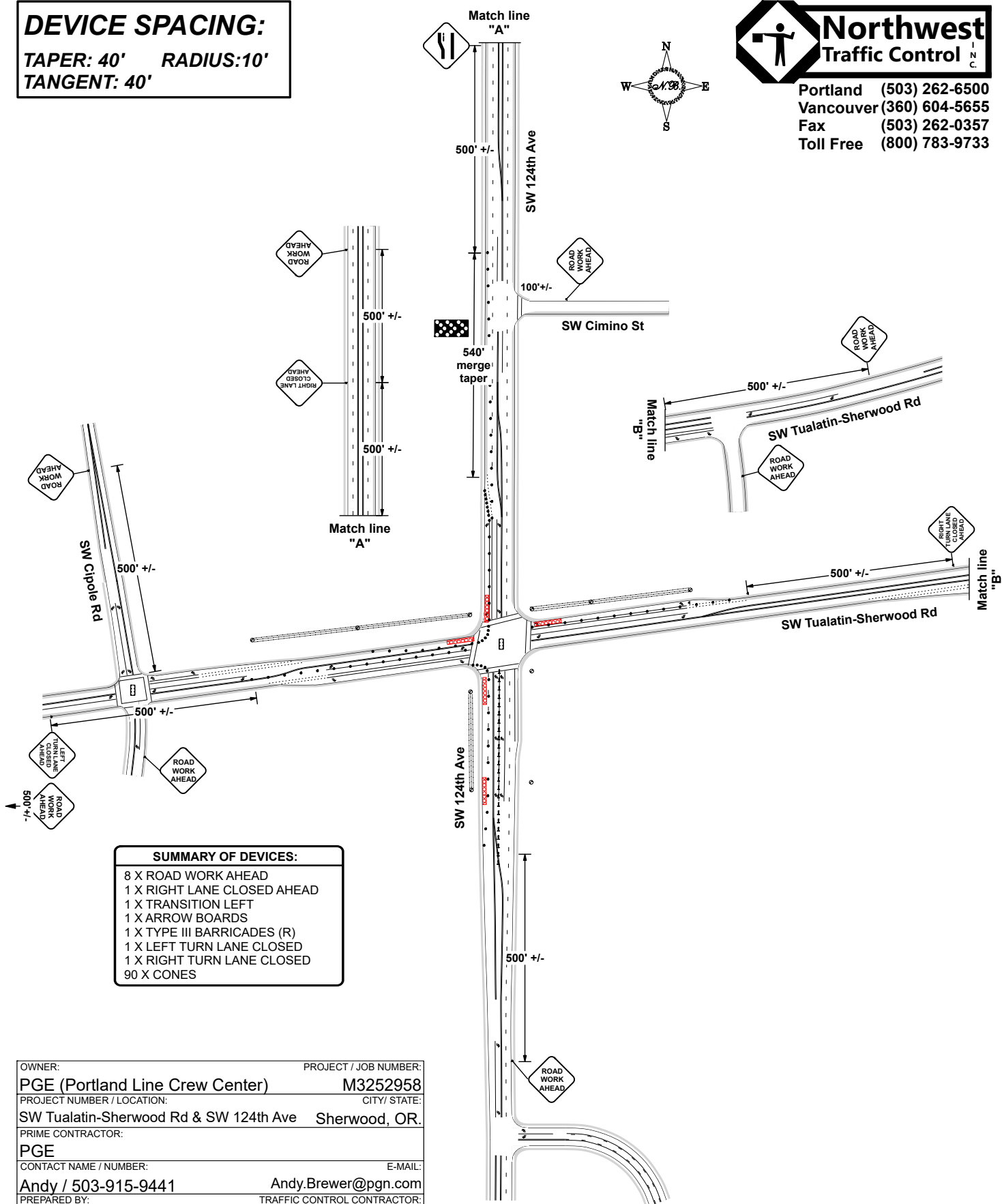
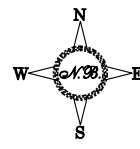
DEVICE SPACING:

TAPER: 40' RADIUS:10'

TANGENT: 40'



Northwest Traffic Control
 Portland (503) 262-6500
 Vancouver (360) 604-5655
 Fax (503) 262-0357
 Toll Free (800) 783-9733



- SUMMARY OF DEVICES:**
- 8 X ROAD WORK AHEAD
 - 1 X RIGHT LANE CLOSED AHEAD
 - 1 X TRANSITION LEFT
 - 1 X ARROW BOARDS
 - 1 X TYPE III BARRICADES (R)
 - 1 X LEFT TURN LANE CLOSED
 - 1 X RIGHT TURN LANE CLOSED
 - 90 X CONES

OWNER:	PROJECT / JOB NUMBER:
PGE (Portland Line Crew Center)	M3252958
PROJECT NUMBER / LOCATION:	CITY / STATE:
SW Tualatin-Sherwood Rd & SW 124th Ave	Sherwood, OR.
PRIME CONTRACTOR:	
PGE	
CONTACT NAME / NUMBER:	E-MAIL:
Andy / 503-915-9441	Andy.Brewer@pgn.com
PREPARED BY:	TRAFFIC CONTROL CONTRACTOR:
Nathan Burris 503-262-6500	Northwest Traffic Control Inc.
OR Cert # Exp: 11/30/2022 WA Cert # Exp: 04/30/2025	E-MAIL:
07634	012780 Nathan@nwtci.com


FILE DATE: 12/12/2022

All signs and devices SHALL conform to the MUTCD / OTTCH. Will adjust to fit field conditions. Plan NOT to scale.

DEVICE SPACING:

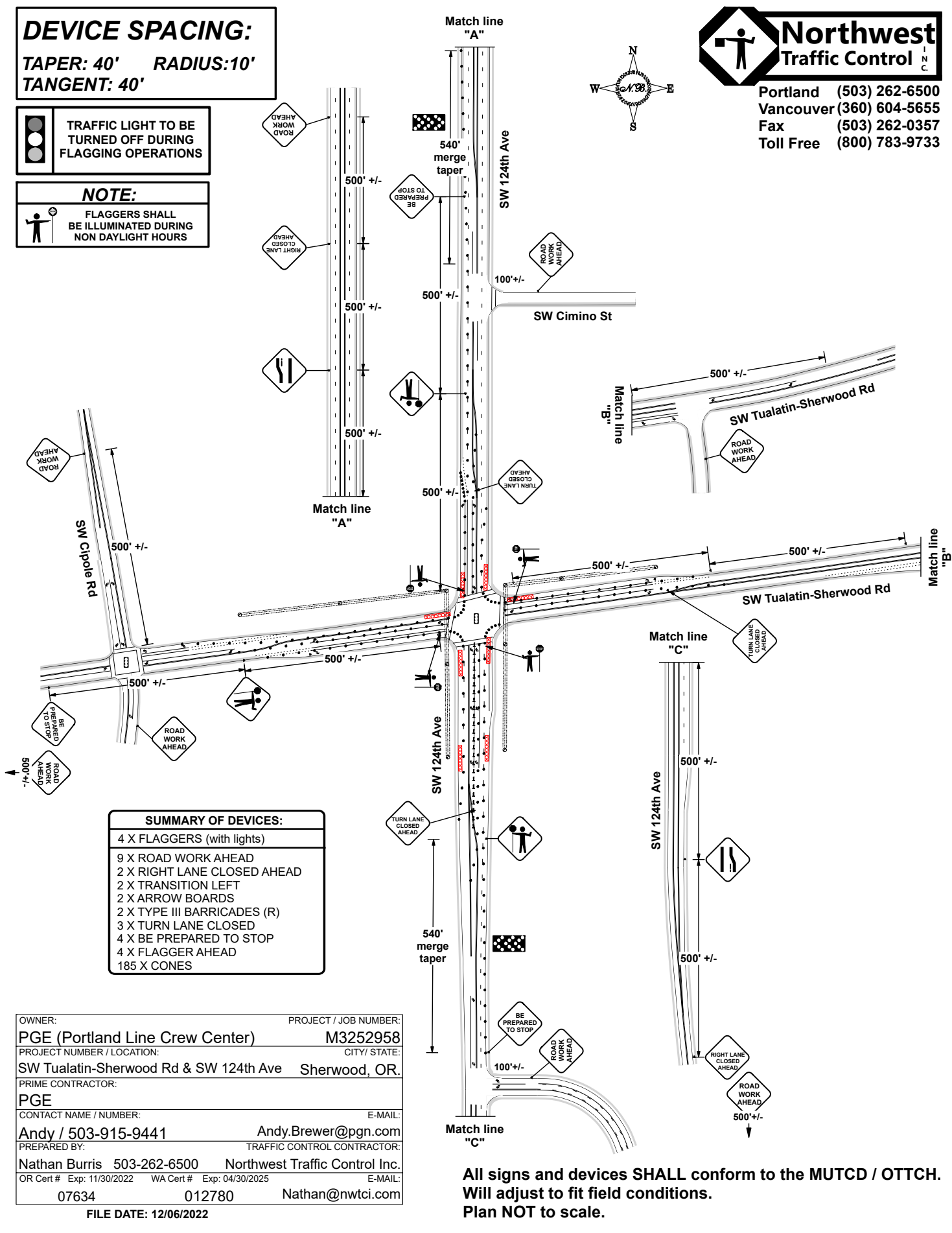
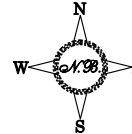
TAPER: 40' RADIUS:10'
TANGENT: 40'

 TRAFFIC LIGHT TO BE TURNED OFF DURING FLAGGING OPERATIONS

NOTE:
 FLAGGERS SHALL BE ILLUMINATED DURING NON DAYLIGHT HOURS



Northwest Traffic Control
Portland (503) 262-6500
Vancouver (360) 604-5655
Fax (503) 262-0357
Toll Free (800) 783-9733



SUMMARY OF DEVICES:	
4 X	FLAGGERS (with lights)
9 X	ROAD WORK AHEAD
2 X	RIGHT LANE CLOSED AHEAD
2 X	TRANSITION LEFT
2 X	ARROW BOARDS
2 X	TYPE III BARRICADES (R)
3 X	TURN LANE CLOSED
4 X	BE PREPARED TO STOP
4 X	FLAGGER AHEAD
185 X	CONES

OWNER:	PROJECT / JOB NUMBER:
PGE (Portland Line Crew Center)	M3252958
PROJECT NUMBER / LOCATION:	CITY / STATE:
SW Tualatin-Sherwood Rd & SW 124th Ave	Sherwood, OR.
PRIME CONTRACTOR:	
PGE	
CONTACT NAME / NUMBER:	E-MAIL:
Andy / 503-915-9441	Andy.Brewer@pgn.com
PREPARED BY:	TRAFFIC CONTROL CONTRACTOR:
Nathan Burris 503-262-6500	Northwest Traffic Control Inc.
OR Cert # Exp: 11/30/2022 WA Cert # Exp: 04/30/2025	E-MAIL:
07634	012780 Nathan@nwtci.com

FILE DATE: 12/06/2022

All signs and devices SHALL conform to the MUTCD / OTTCH. Will adjust to fit field conditions. Plan NOT to scale.