



Department of Land Use and Transportation  
Operations and Maintenance Division  
1400 SW Walnut Street, MS 51  
Hillsboro, OR 97123  
Phone: 503-846-7623 / Fax: 503-846-7620

**Inspection Request Line (IVR)**

**Codes:** 950 Operations Interim, 951 Operations Final

**IVR:** 503-846-3699

**Online:** <http://washcooraca.com>

## Permit 222502

Right-of-Way Utility	Issued
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**Description:**

25500 SW Grahams Ferry Rd - Utility Sherwood Broadband proposes to bore to install 366' of (2)-2" conduits with 288ct fiber optic cable a min. of 36" below grade. Remove & Replace 48ft<sup>2</sup> of asphalt. Route 2,849' of 288ct fiber through existing underground facilities. Install 3,431' of 6.6mm strand with lashed 288ct fiber, and 132' of 6.6mm strand for overhead guys between existing utility poles. Construct New Facility

Street/Road Information		Key Dates	
<b>Site Address:</b>	25500 SW GRAHAMS FERRY RD	<b>Accepted Date:</b>	12/07/2022
<b>Location:</b>	25500 SW Grahams Ferry Rd - Utility	<b>Issued Date:</b>	12/16/2022
<b>Nearest Cross Street:</b>	SW Grahams Ferry Rd & SW Day Rd	<b>Proposed Start:</b>	12/31/2022
<b>Parcel:</b>		<b>Estimated Completion:</b>	12/31/2023
<b>Subdivision:</b>		<b>Expiration Date</b>	12/16/2023

<b>Applicant:</b>	Sherwood Broadband 22560 SW Pine St Sherwood OR 97140 3607138638 HURDT@SHERWOODOREGON.GOV	<b>Contractor:</b>	
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### Special Conditions

1. Please call the inspection request line for start work, sidewalk and curb form inspection, and any other questions you might have regarding this permit. If work is interrupted and restarted call the inspection request line for start.
2. The authorized lane restrictions under this permit are from 8:30AM to 4:00PM.
3. Any damage to the asphalt road surface is to be repaired with an approved asphaltic material. If steel plates are needed, please apply for a steel plate permit at washcooraca.com.
4. This permit is for Washington County Right-of-Way only, other permits may be required.
5. Traffic control must be adjusted to meet conditions in field.
6. Restore roadway in accordance with Washington County Trench Restoration Detail. If steel plates are needed, please apply for a steel plate permit at washcooraca.com.
7. Repair utility core holes in accordance with Utility Locate Core Detail.
8. ALL VEHICLES, MATERIALS, AND EQUIPMENT MUST BE REMOVED FROM RIGHT OF WAY AT END OF EACH DAY

### Important Notice

- A) This permit is only valid when issued with the approved plans, the attached General Conditions, the above Special Conditions, and any other specified attachments or requirements.
- B) Additional fees may be required if there is a substantial change in the scope of work requiring further review by Washington County or if more than three site visits are needed for inspection purposes.
- C) If this permit expires without an approved final inspection or if the requirements of this permit have not been met to the satisfaction of Washington County, a notice may be placed in the property record related to the permit status which could delay the issuance or closure of other permits.
- D) Failure to comply with the terms and conditions of this permit may result in a code violation citation or other legal action necessary to enforce the terms of the permit.



## **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](http://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 *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.

**Contact Options:**

- 1) Phone: (503) 846-3699
- 2) Online: <http://washcooraca.com>

Be prepared to have your permit number and inspection code available for entry into the automated system(s).

12. Thirty (30) days prior to the expiration of the permit the Permittee shall contact the County at 503-846-7623 and provide an update and status of the permitted work, if the work has not been completed. If the work will not be completed prior to permit expiration, the Permittee shall request an extension for the permit or risk having to re-apply for a new permit with new fees and requirements associated with the work.
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.



## GENERAL CONDITIONS

### For Permits To Work in Washington County Right-of-Way

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.	

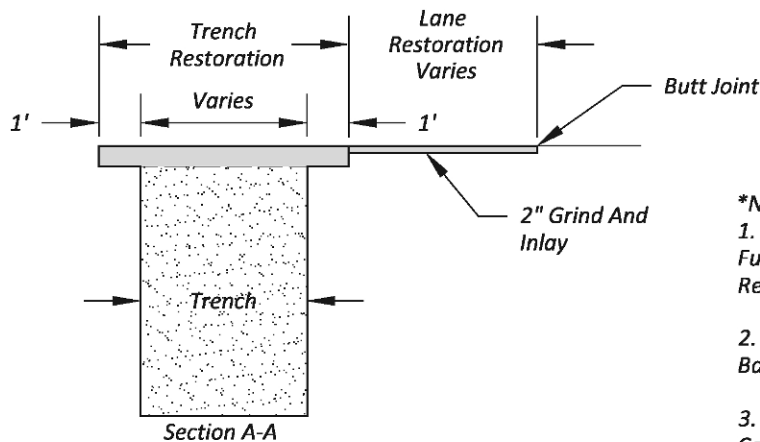
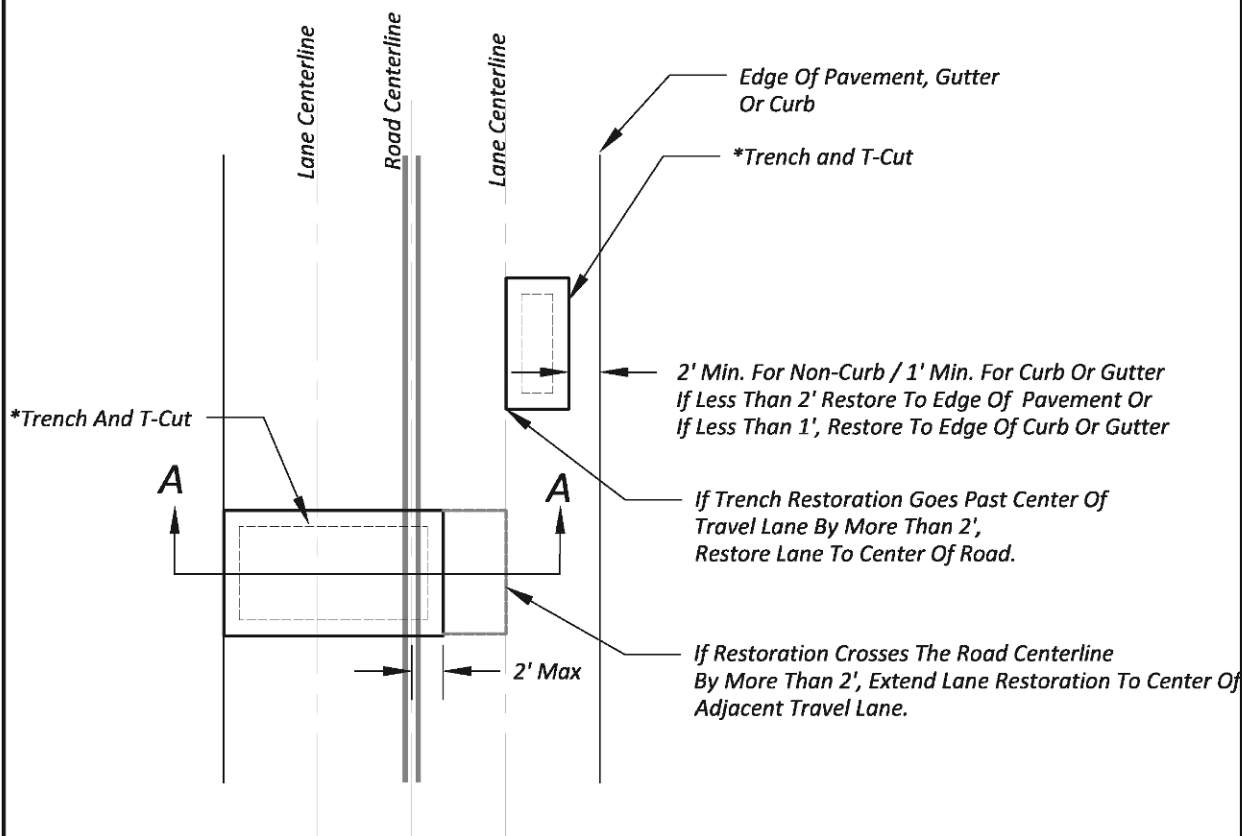
20. Suspend work on the following holidays: **New Year's Day** (Jan 1), **Martin Luther King Day** (3rd Mon in Jan), **President's Day** (3rd Mon in Feb), **Memorial Day** (last Monday in May), **Independence Day** (Jul 4), **Labor Day** (1st Monday in Sept), **Veteran's Day** (Nov 11) **Thanksgiving** (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**

### **For Permits To Work in Washington County Right-of-Way**

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.



**\*Notes:**

1. For Roads Paved Within 5 Years, Full Lane Restoration Is Required, Regardless Of Trench Size.

2. 100 SQ FT Programmatic Limit Based On Limits Of Trench.

3. See General And Special Conditions For More Details.

## Typical T-Cut Trench Restoration

See County Standard Drawing 3020 For Details

### TYPICAL DETAIL

WASHINGTON COUNTY

SHEET NO.  
1 OF 1

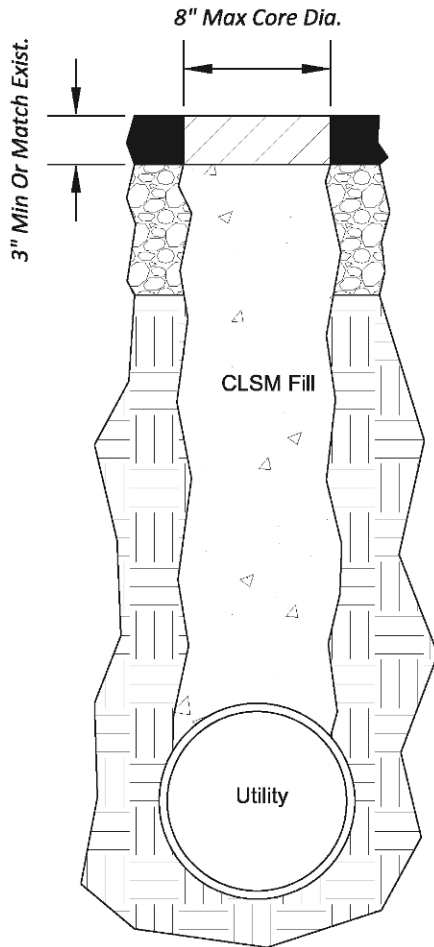
### TRENCH RESTORATION

PLOT STAMP: 04/25/12 2:19P AARONC  
CAD: TRENCH RESTORATION DETAILS.DWG, TAB: TRENCH REPAIR

NO.	REVISIONS



DEPARTMENT OF  
LAND USE &  
TRANSPORTATION  
OPERATIONS



Not To Scale

**Notes:**

1. Backfill Core Hole With Controlled Low Strength Material (CLSM) According To Oregon Standard Specifications For Construction, Section 00442. 28-Day Cylinder Reports Are Not Required.
2. Protect CLSM From Traffic For A Sufficient Amount Of Time To Allow For Curing.
3. For HMAC Surfaced Roads, Cap Core Hole With A Minimum Three Inches Of Hot Mix Asphalt Concrete (HMAC) Or Match Existing Asphalt Thickness, Whichever Is Greater. Compact HMAC To 92% Of Maximum Rice Density, Per AASHTO T-99.
4. For Portland Cement Concrete (PCC) Surfaced Roads, Use Air Entrained PCC With A Minimum 28-Day Compressive Strength Of 4000 PSI, And Slump Between 1.5" and 3". Depth Of Repair Shall Be Equal To Existing PCC Depth.
5. Tack All Existing Asphalt Edges And Sand Seal The Joint At The Surface.
6. No CLSM Is To Reach Any Stream Or Storm Water System.
7. This Detail Is Intended For Circular Cores With Diameters Of 8" Or less.
8. For Trench Pot Holes, See Washington County Detail, 3020 And ODOT Standard Drawing RD 300 And RD 304.
9. All Surfaces Shall Be Clean And Free Of Debris At Conclusion Of Core Hole Excavation.
10. Core Holes Shall Be Spaced No Closer Than 25' And No More Than Four Holes In 500' Of A Single Lane.

**Standard Detail**

WASHINGTON COUNTY

SHEET NO.  
**1 OF 1**

**Utility Locate Core Detail**

PLOT STAMP: 04/25/12 2:20P AARONC  
CAD: UTILITY POT HOLE DETAIL.DWG, TAB: LAYOUT1

NO. REVISIONS



DEPARTMENT OF  
LAND USE &  
TRANSPORTATION  
OPERATIONS



WASHINGTON COUNTY  
LAND USE & TRANSPORTATION  
OPERATIONS AND MAINTENANCE  
REVIEWED BY BILL L

WILSONVILLE EXPANSION  
WILSONVILLE, OR 97070

Traffic control  
plans summited  
300, 320, 620,  
5-6

OWNER / APPLICANT

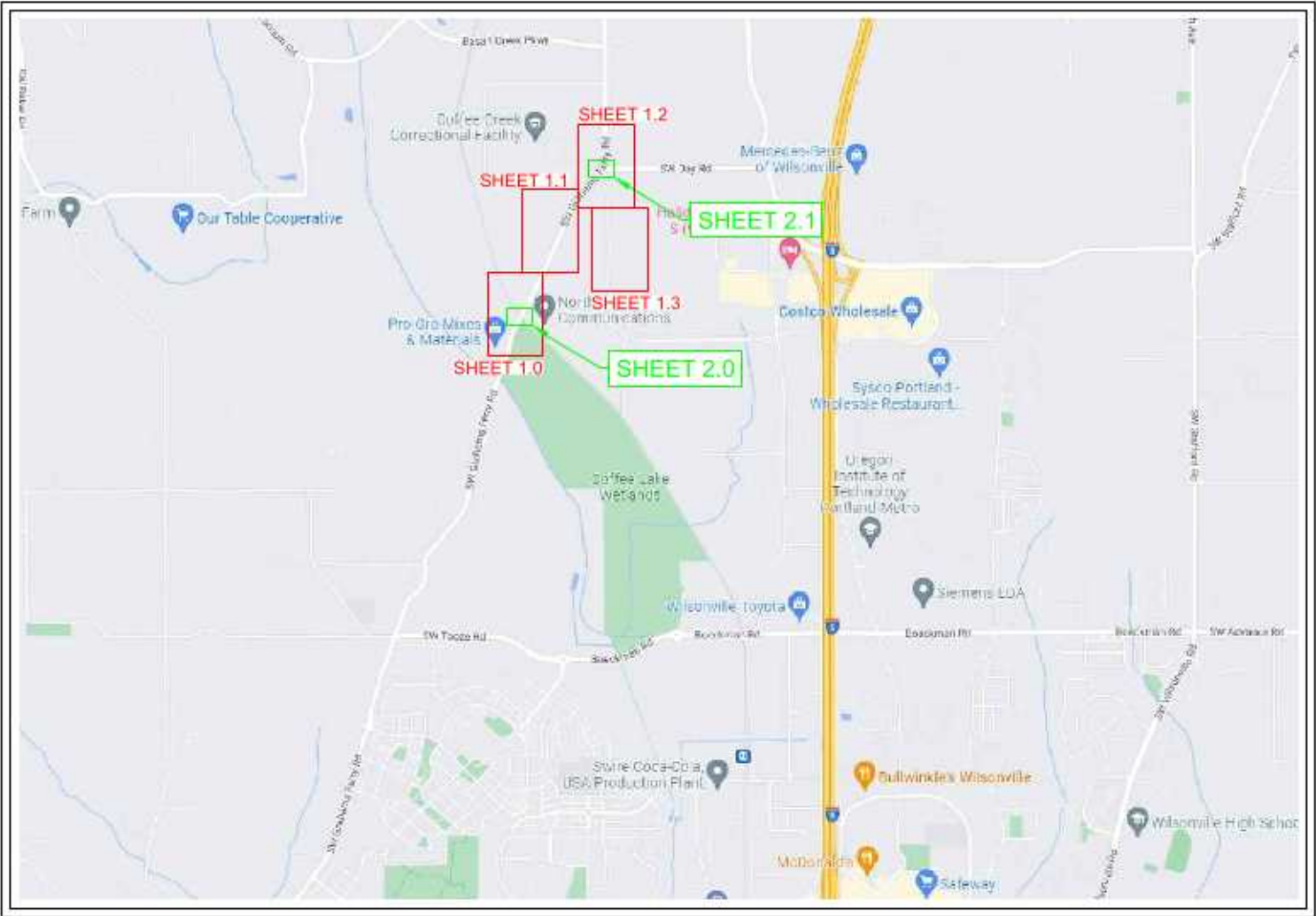
SHERWOOD BROADBAND  
22560 SW PINE ST  
SHERWOOD, OR 97140  
CONTACT: TODD HURD  
MOBILE: (360) 713-8638  
E-MAIL: [HURDT@SHERWOODOREGON.GOV](mailto:HURDT@SHERWOODOREGON.GOV)

DESIGN BY

K&B TECHNICAL SOLUTIONS  
P.O. BOX 2529  
CLACKAMAS, OR 97015  
CONTACT: ERIC ENGLUND  
OFFICE: (503) 650-6041 X208  
MOBILE: (503) 329-0793  
EMAIL: [ERIC\\_ENGLUND@KBMAIL.NET](mailto:ERIC_ENGLUND@KBMAIL.NET)

SHEET INDEX

SHT	DESCRIPTION
CS	COVER SHEET/VICINITY MAP
1.0 - 1.3	AERIAL RIGHT-OF-WAY PLAN
2.0 - 2.1	UNDERGROUND RIGHT-OF-WAY PLAN
L	LEGEND



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 962-001-0010  
THROUGH 962-001-0090. 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.

811

Know what's below.  
Call before you dig.

WILSONVILLE EXPANSION  
WILSONVILLE, OR 97070  
COVER SHEET / VICINITY MAP

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGNER	DATE
11/02/22	ORIGINAL ISSUE	K.J.S.	11/02/22
11/23/22	HANDHOLE CHANGES	K.J.S.	11/23/22



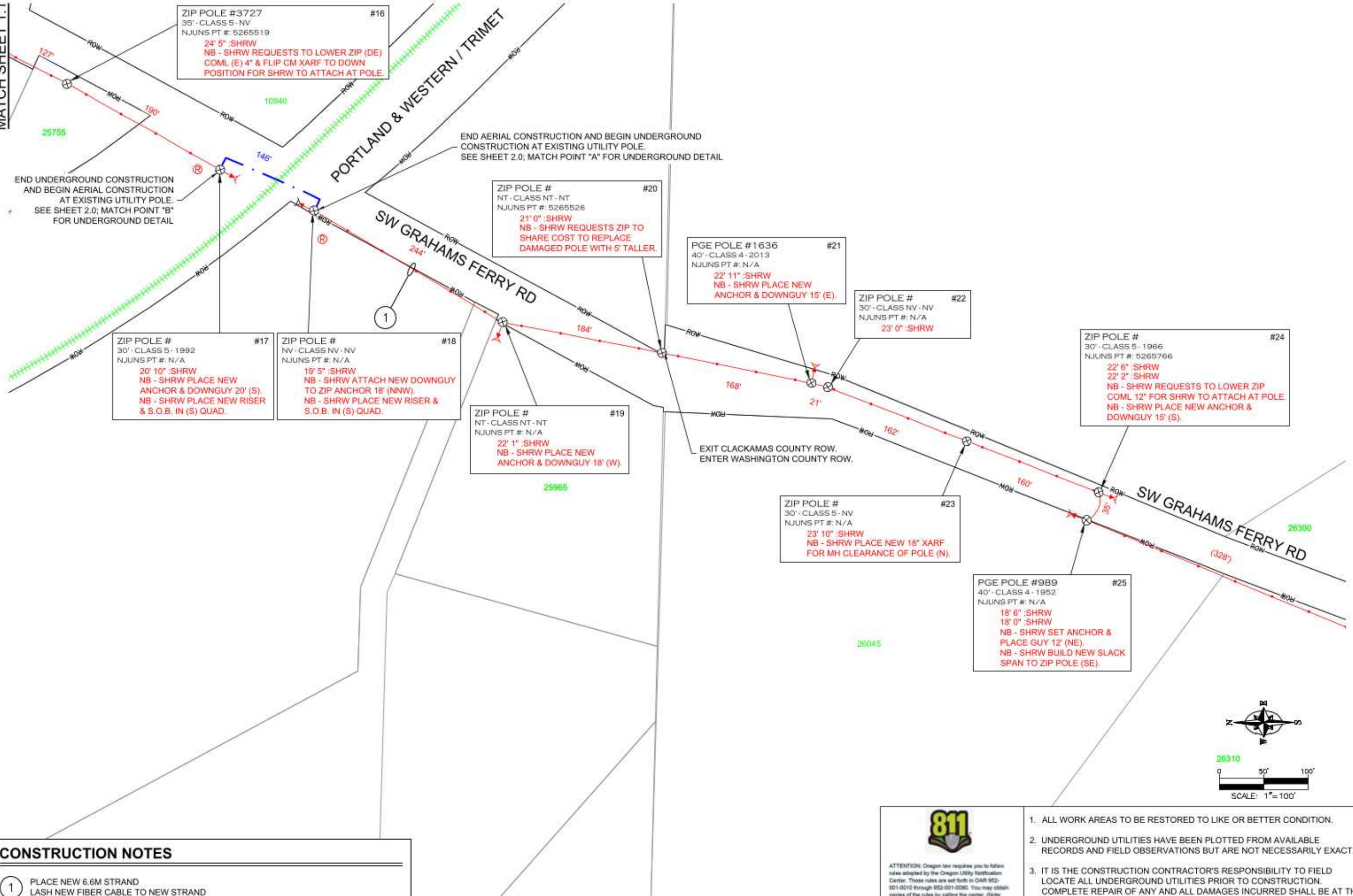
P.O. BOX 2529, CLACKAMAS, OR 97015  
ERIC ENGLUND - (503) 329-0793  
[ERIC\\_ENGLUND@KBMAIL.NET](mailto:ERIC_ENGLUND@KBMAIL.NET)



TODD HURD - (360) 713-8638  
[HURDT@SHERWOODOREGON.GOV](mailto:HURDT@SHERWOODOREGON.GOV)

SHEET  
CS

PROJECT ID  
SHW-41661-17297



## CONSTRUCTION NOTES

- 1 PLACE NEW 6.6M STRAND  
LASH NEW FIBER CABLE TO NEW STRAND



**ATTENTION:** 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 center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1867 or 811).

1. ALL WORK AREAS TO BE RESTORED TO LIKE OR BETTER CONDITION.
2. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT.
3. IT IS THE CONSTRUCTION CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.



P.O. BOX 2529, CLACKAMAS, OR 97015  
ERIC ENGLUND - (503) 329-0793  
[ERIC\\_ENGLUND@KBMAIL.NET](mailto:ERIC_ENGLUND@KBMAIL.NET)



TODD HURD - (360) 713-8638  
HURDT@SHERWOODOREGON.GOV

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGN DRAWING	
	ORIGINAL ISSUE	K.J.S	R.P.M
	HANDHOLE CHANGES	K.J.S:	R.P.M:
11/02/22		-	-
11/02/22		-	-
-	-	-	-

WILSONVILLE EXPANSION  
SW GRAHAMS FERRY RD  
SHERWOOD, OR 97140  
CABLE PLAN

SHEET

1.0

PROJECT ID:  
41661-17297

MATCH SHEET 1.2

11300

25225

25275

25290

25290

25540

10675

ZIP POLE #979  
40' - CLASS 4 - 1970  
NJUNS PT #: 5265479

23' 0" :SHRW  
NB - SHRW REQUESTS TO PLACE NEW PUP  
ARM TB AT 23' 0", & REQUESTS TO LOWER  
CM COML 6" TO T.O.P. & TO RELOCATE ZIP  
COML TO B.O.P. FOR SHRW TO ATTACH AT  
T.I.P. OF NEW ARM.

ZIP POLE #980  
40' - CLASS 4 - 1958  
NJUNS PT #: 5265490

22' 9" :SHRW  
NB - SHRW REQUESTS TO PLACE NEW PUP  
ARM TB AT 22' 9", & REQUESTS TO LOWER  
CM COML 3" TO T.O.P. OF NEW ARM &  
SECURE SLACKED COMDS IN SPAN (SW) FOR  
CLEARANCE & FOR SHRW TO ATTACH AT  
T.I.P. OF NEW ARM.

PGE POLE #981  
45' - CLASS 4 - 1999  
NJUNS PT #: 5265502

22' 4" :SHRW  
NB - SHRW REQUESTS TO LOWER CM COML  
12" TO EXISTING TBH FOR SHRW TO ATTACH  
AT CM VACATED TBH.

PGE POLE #982  
40' - CLASS 4 - 2012  
NJUNS PT #: N/A

22' 6" :SHRW  
22' 0" :SHRW  
NB - SHRW SET ANCHOR &  
PLACE GUY 15' (SW).  
NB - SHRW BUILD NEW SLACK  
SPAN TO ZIP POLE (NW).

ZIP POLE #3366  
35' - CLASS 5 - 1966  
NJUNS PT #: N/A

30' 0" :SHRW  
29' 0" :SHRW  
NB - SHRW PLACE NEW  
ANCHOR & DOWNGUY 20' (N).

ZIP POLE #  
30' - CLASS 5 - 1966  
NJUNS PT #: 5265509

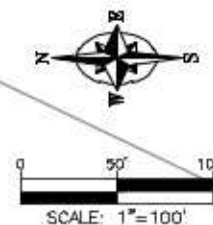
23' 2" :SHRW  
NB - SHRW REQUESTS TO RELOCATE ZIP  
COML FROM (SS) TO (FS), LOWER ZIP  
COML 12" & PLACE ZIP COML ON NEW 24"  
XARF FOR CLEARANCE OF SOLAR PANEL  
OLE IN SPAN (N) & FOR SHRW TO  
ATTACH WITH NEW 24" XARF AT ZIP  
VACATED TBH (FS).

ZIP POLE #  
30' - CLASS 5 - 1997  
NJUNS PT #: 5265515

24' 4" :SHRW  
NB - SHRW REQUESTS TO LOWER ZIP COML  
4" & TO CONSOLIDATE/LOWER ZIP (DE) COML  
(SE) 12" & SHRW TO LOWER CM OHG 10" FOR  
SHRW TO ATTACH AT CM VACATED TBH.

## CONSTRUCTION NOTES

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WILSONVILLE EXPANSION  
SW GRAHAMS FERRY RD  
SHERWOOD, OR 97140  
CABLE PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	ORIGINAL ISSUE	HANDHOLE CHANGES
11/02/22			
11/23/22			



P.O. BOX 2529, CLACKAMAS, OR 97015  
ERIC ENGLUND - (503) 329-0793  
ERIC\_ENGLUND@KBMAIL.NET



TODD HURD - (360) 713-8638  
HURDT@SHERWOODOREGON.GOV

SHEET

1.1

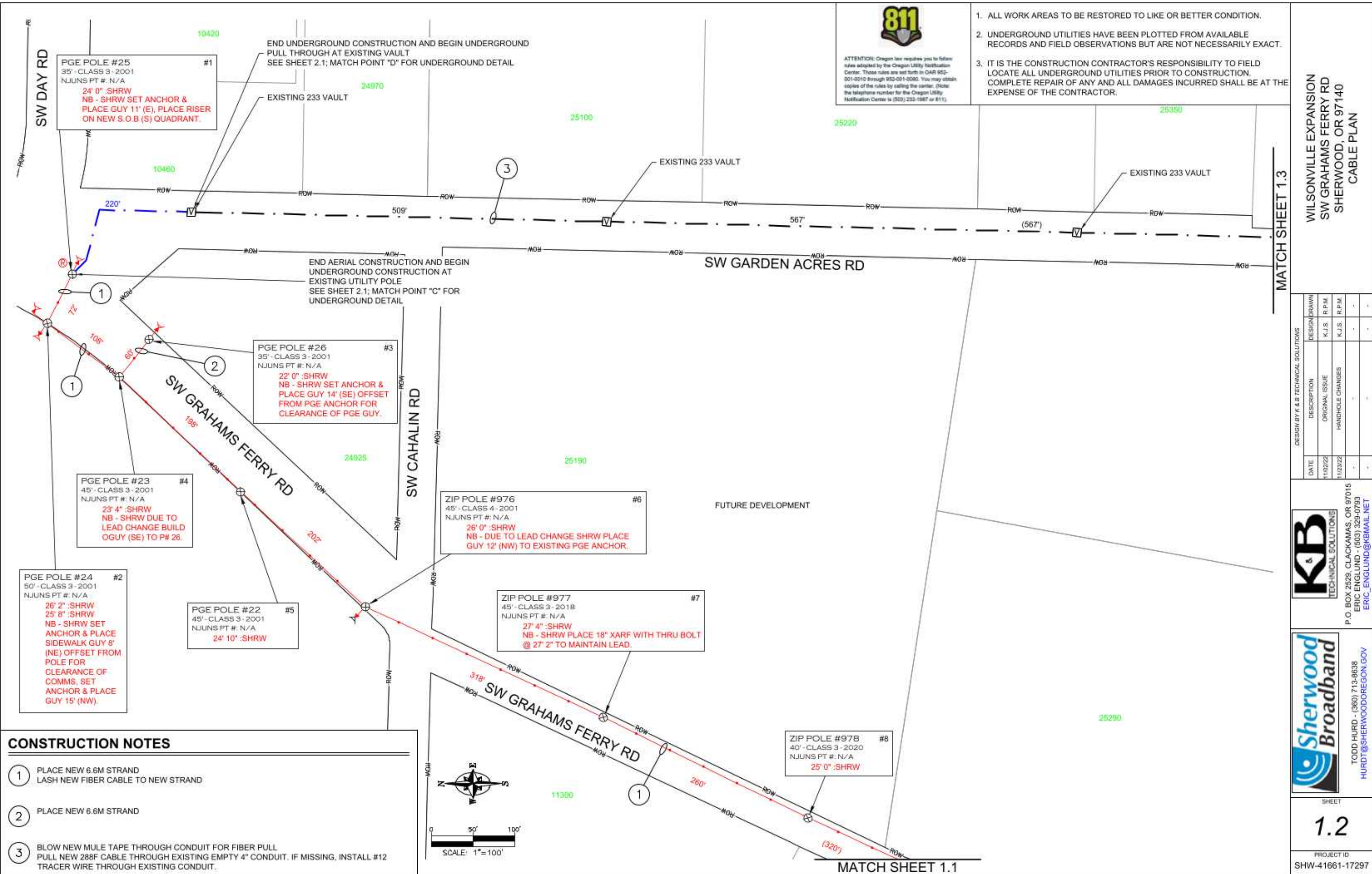
PROJECT ID  
SHW-41661-17297


MATCH SHEET 1.0

SW CLUTTER ST

SW ELLIGSEN WAY

SW GRAHAMS FERRY RD






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### CONSTRUCTION NOTES

- 1 PLACE NEW 6.6M STRAND LASH NEW FIBER CABLE TO NEW STRAND
- 2 PLACE NEW 6.6M STRAND
- 3 BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 288F CABLE THROUGH EXISTING EMPTY 4" CONDUIT. IF MISSING, INSTALL #12 TRACER WIRE THROUGH EXISTING CONDUIT.



SCALE: 1"=100'

WILSONVILLE EXPANSION  
SW GRAHAMS FERRY RD  
SHERWOOD, OR 97140  
CABLE PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS	
DATE	DESCRIPTION
11/02/22	ORIGINAL ISSUE
11/23/22	HANDHOLE CHANGES



P.O. BOX 2529, CLACKAMAS, OR 97015  
ERIC ENGLUND - (503) 329-0793  
ERIC\_ENGLUND@KBMAIL.NET



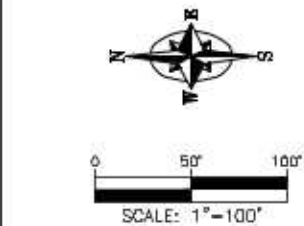
TODD HURD - (360) 713-8638  
HURDT@SHERWOODOREGON.GOV

SHEET

1.2

PROJECT ID  
SHW-41661-17297

MATCH SHEET 1.2



### CONSTRUCTION NOTES

- 1 BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL.  
PULL NEW 288F CABLE THROUGH EXISTING EMPTY 4" CONDUIT. IF MISSING, INSTALL #12 TRACER WIRE THROUGH EXISTING CONDUIT.



ATTENTION: 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 852-001-0080. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987 or 811).

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WILSONVILLE EXPANSION  
SW GARDEN ACRES RD  
SHERWOOD, OR 97140  
CABLE PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGNED BY	DATE
11/02/22	ORIGINAL ISSUE	K.J.S.	R.P.M.
11/23/22	HANDHOLE CHANGES	K.J.S.	R.P.M.



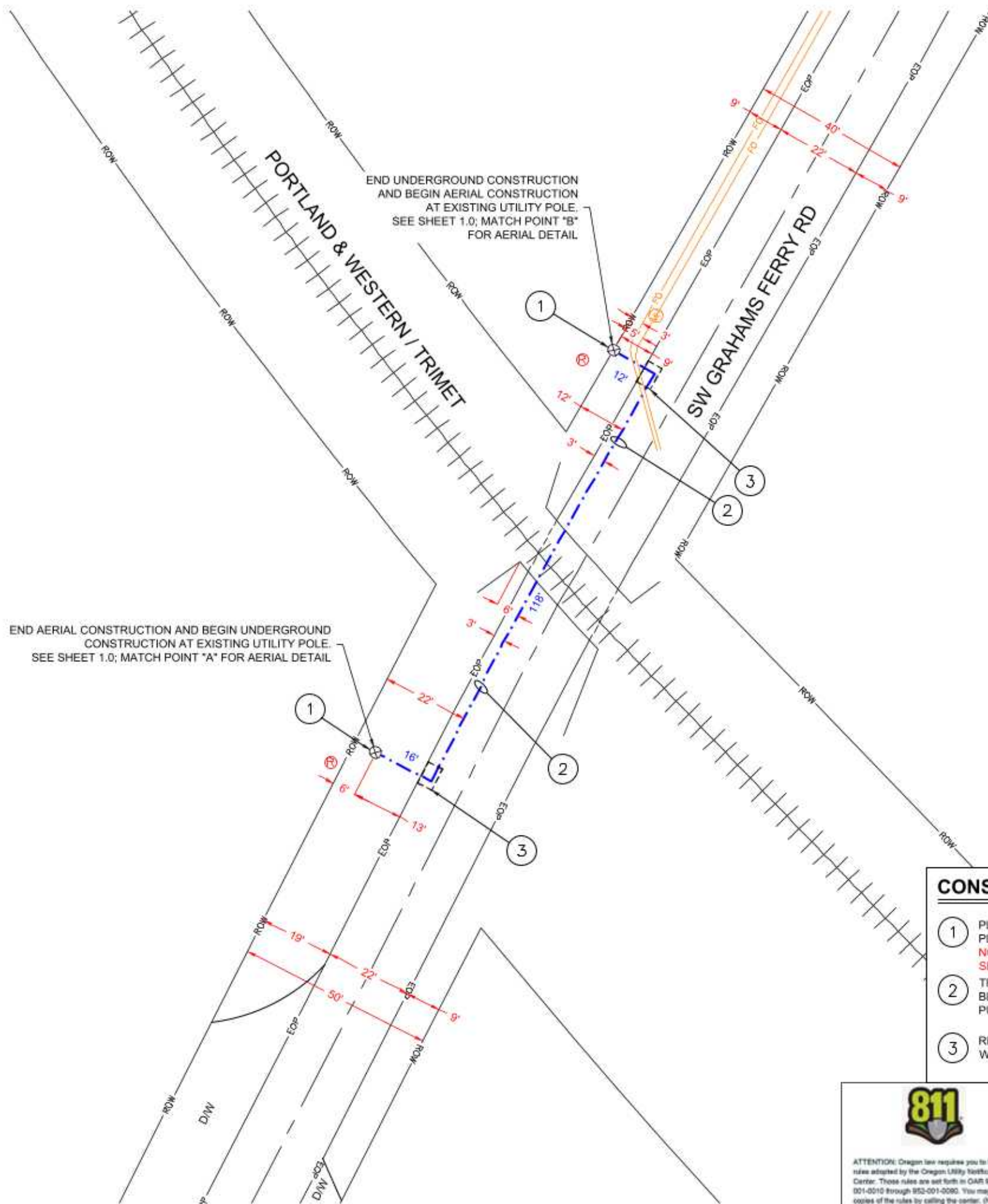
P.O. BOX 2529, CLACKAMAS, OR 97015  
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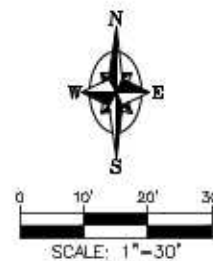
1.3

PROJECT ID  
SHW-41661-17297



END AERIAL CONSTRUCTION AND BEGIN UNDERGROUND CONSTRUCTION AT EXISTING UTILITY POLE. SEE SHEET 1.0; MATCH POINT "A" FOR AERIAL DETAIL

END UNDERGROUND CONSTRUCTION AND BEGIN AERIAL CONSTRUCTION AT EXISTING UTILITY POLE. SEE SHEET 1.0; MATCH POINT "B" FOR AERIAL DETAIL



### CONSTRUCTION NOTES

1. PLACE NEW (2)-2" SCH-40 PVC 90°BEND AT BASE OF POLE.  
PLACE NEW (1)-2" SCH-40 PVC RISER ON STUB AT BASE OF POLE.  
**NOTE - (1)-2" SCH-40 PVC 90°BEND TO BE CAPPED AT BASE OF POLE FOR FUTURE SECURE TRACER WIRE TO RISER AND POLE**
2. TRENCH/BORE A MIN. OF 36" BELOW GRADE AND PLACE (2)-2" HDPE CONDUIT.  
BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL.  
PULL NEW 288F CABLE AND #12 TRACER WIRE THROUGH NEW CONDUIT.
3. REMOVE AND REPLACE 4'X6' SECTION OF EXISTING ASPHALT PER WASHINGTON COUNTY SPECIFICATIONS.



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DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGNED BY	DATE
11/02/22	ORIGINAL ISSUE	K.J.S.	R.P.M.
11/23/22	HANDHOLE CHANGES	K.J.S.	R.P.M.



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ERIC ENGLUND - (503) 329-0793  
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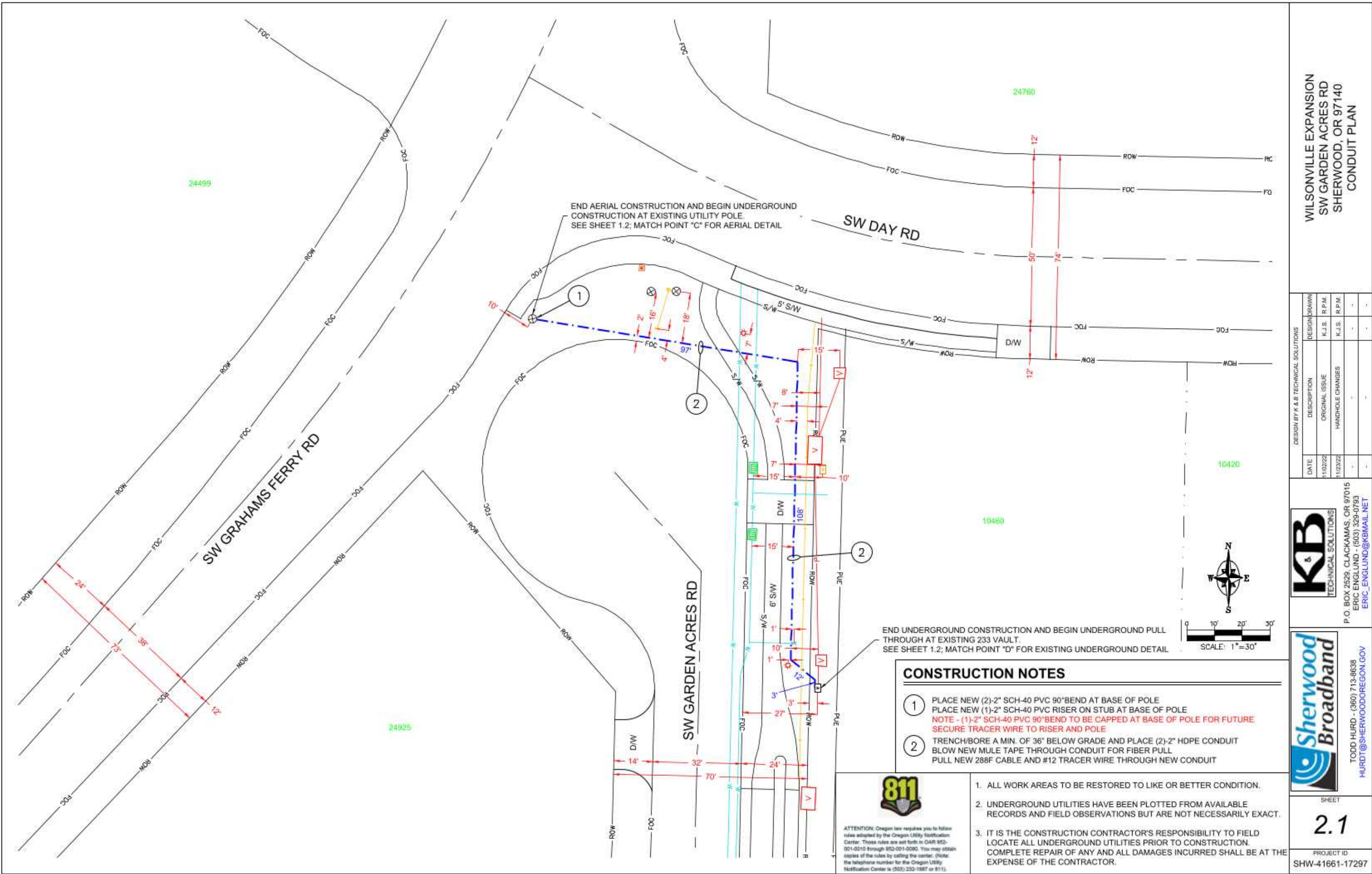


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HURDT@SHERWOODOREGON.GOV

SHEET  
2.0

PROJECT ID  
SHW-41661-17297

WILSONVILLE EXPANSION  
SW GRAHAM FERRY RD  
SHERWOOD, OR 97140  
CONDUIT PLAN



WILSONVILLE EXPANSION  
SW GARDEN ACRES RD  
SHERWOOD, OR 97140  
CONDUIT PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN/DRAWN	
DATE	DESCRIPTION	K.J.S. R.P.M.	K.J.S. R.P.M.
11/02/22	ORIGINAL ISSUE	-	-
11/23/22	HANDHOLE CHANGES	-	-



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ERIC ENGLUND - (503) 329-0793  
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SHEET  
2.1

PROJECT ID  
SHW-41661-17297

### CONSTRUCTION NOTES

1. PLACE NEW (2)-2" SCH-40 PVC 90° BEND AT BASE OF POLE  
PLACE NEW (1)-2" SCH-40 PVC RISER ON STUB AT BASE OF POLE  
**NOTE - (1)-2" SCH-40 PVC 90° BEND TO BE CAPPED AT BASE OF POLE FOR FUTURE SECURE TRACER WIRE TO RISER AND POLE**
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BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL  
PULL NEW 288F CABLE AND #12 TRACER WIRE THROUGH NEW CONDUIT



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LINETYPES

EXISTING AERIAL CABLE	
PROPOSED AERIAL CABLE	
EXISTING CONDUIT	
PROPOSED CONDUIT/EMT	
RIGHT-OF-WAY	
PUBLIC UTILITY EASEMENT	
EASEMENT	
PROPERTY	
CENTERLINE	
FACE OF CURB	
EDGE OF PAVEMENT	
EDGE OF CONCRETE	
EDGE OF GRAVEL	
EDGE OF SIDEWALK	
EDGE OF DRIVEWAY	
EXCAVATION LIMITS	
SEWER	
STORM	
WATER	
GAS	
POWER	
TELEPHONE	
FIBER OPTIC	
CATV	
TRAFFIC SIGNAL	
STREET LIGHT	
IRRIGATION	
UNKNOWN UTILITY	
FENCELINE	
GUARD RAIL	
TRACKS	

BUILDING FOOTPRINT



SYMBOLS

UTILITY POLE	
EXISTING RISER	
PROPOSED RISER	
EXISTING ANCHOR & DOWNGUY	
PROPOSED ANCHOR & DOWNGUY	
PROPOSED GUY TO EXISTING ANCHOR	
EXISTING S/W ANCHOR & DOWNGUY	
PROPOSED S/W ANCHOR & DOWNGUY	
PROPOSED GUY TO EXISTING S/W ANCHOR	
POLE-TO-POLE GUY	
WRECKOUT SPAN	
EXISTING MIDSPAN CLAMP	
PROPOSED MIDSPAN CLAMP	
EXISTING SPLICE	
PROPOSED SPLICE	
PROPOSED AERIAL STORAGE	
VAULT	
PEDESTAL	
MANHOLE	
INLET	
HYDRANT	
METER	
VALVE	
POWER TRANSFORMER	
STREET LIGHT	
TRAFFIC SIGNAL POLE	
SIGNAL CONTROLLER	
CROSS WALK SIGNAL	
RAILROAD SIGNAL	
TREE	
CULVERT	

WILSONVILLE EXPANSION  
SW GARDEN ACRES RD  
SHERWOOD, OR 97140  
LEGEND / TYPICALS

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGNED	DRAWN
11/02/22	ORIGINAL ISSUE	K.J.S.	R.P.M.
11/23/22	HANDHOLE CHANGES	K.J.S.	R.P.M.

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ERIC ENGLUND - (503) 329-0793  
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TODD HURD - (360) 713-8638  
HURDT@SHERWOODOREGON.GOV



DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DEVELOPMENT SERVICES BUILDING

150 BEAVERCREEK ROAD | OREGON CITY, OR 97045

## UTILITY PERMIT

<b>Permit Number:</b>	<b>UP151722</b>	<b>WARRANTY EXPIRATION:</b>	
Record Name:	Wilsonville Expansion	Warranty Period:	
Permit Status:	Issued	Permit Issued:	10/24/2022
Applicant Project #:		Permit Expires:	<b>TBD</b>
Description:	Attach 5,831' of new aerial facilities between existing utility poles, bore to place 3,612' of 2" conduit a min. of 36" below grade, route 1,089' of fiber optic cable through existing underground conduit, and install 6 24"x36" vaults.		

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Site Address: 12041 SW TOOZE RD SHERWOOD, OR 97140  
Location: Project Road - , Project starts - , Project ends -  
Parcel: 31W10C 02800  
Road Number:  
Map Page Number:

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Applicant: BRAD ROLLINS  
PO BOX 2529  
CLACKAMAS, OR 97015  
(281) 923-8353  
PERMITS@KBMAIL.NET

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Contractor:

-

24-Hour Emergency Phone:

---

Inspector: Eric Fine Phone: 503-319-8891

*If the primary inspector is not available please email [engineering@clackamas.us](mailto:engineering@clackamas.us) (preferred) or call 503-742-4691*

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Size of permitted excavation: *Minimum depth is 30" (County Code chapter 7.03.170 Paragraph)*

Proposed Start: 11/21/2022

Call or fax in actual start & completion date to:

Proposed Complete:

Phone: (503) 742-4700 Fax: (503) 742-4659

Conditions of this permit:

ENG101 - INSPECTIONS REQUIRED - Inspections are required and should be requested at least one (1) working day before the day an inspection is needed. Contact the County at 503-742-4700 for the inspection request.

ENG102 - SEE DRAWING - Contractor must have a copy of the permit on site. See the handout for applicable drawings for this access.

ENG104 - OTHER AGENCIES - SEPARATE PERMITS REQUIRED - This permit is only for street construction within Clackamas County right-of-way. Additional permits must be obtained from the State/City prior to work commencement within State/City rights-of-way

ENG105 - EXPIRATION - Work must be finished by the expiration date unless approval has been obtained from the inspector.

ENG142 - GRANULAR BACKFILL - Granular backfill (1 1/2"-0", 1"-0" or 3/4"-0"), approved by Clackamas County, must be a minimum of 95% compaction. Compaction test results are to be returned to Clackamas County Engineering Division within ten (10) days of completion of the project.

2. Shoulders must be replaced to "as good" or "better" condition with County approved materials.
3. Bike paths and pedestrian walkways are to be repaired to the same standards as the roadway.
4. Return right-of-way to "as good" or "better" condition.

ENG145 - TRENCH PAVING - A.C REPLACEMENT - Asphalt Replacement -

1. Surface repairs to asphalt pavements shall conform to the current ODOT/APWA (Asphalt Concrete Pavement) Specifications.
2. Saw cut the pavement to a full depth at trench limits. Double saw cut to provide a twelve (12) inch 'T-cut' with a four (4) inch minimum asphalt replacement for trench repair. (See Standard Drawing U250/U260)
3. The outside saw cut must be at least three (3) feet from the edge of pavement. If less than three (3) feet, the existing outside asphalt to the edge of pavement must be removed and replaced as part of the trench pavement.
4. Minimum asphaltic concrete replacement is three (3) foot width at edge of pavement. The repair shall maintain existing road width and alignment.
5. Subsequent to asphalt removal, trench repair paving must be applied in two (2) separate lifts of two (2) inch compacted thickness for a minimum four (4) inch thickness, or the thickness that was removed; whichever is greater.
6. All undermined pavements caused by trench excavation and cave in shall be removed immediately during the construction.
7. For temperatures under 50 degrees the asphaltic concrete shall be placed in three (3) inch lifts.
8. All asphalt joints must be sealed with hot liquid asphalt, and choked with sand.
9. Any disruption in road striping must be replaced to Clackamas County Traffic Standards. Temporary reflective striping tape or reflective markers (such as stick and stomps) must be used until permanent strip can be applied.
10. Shoulders must be replaced to "as good" or "better" condition with County approved materials.
11. Bike paths and pedestrian walkways are to be repaired to the same standards as the roadway.
12. Return right-of-way to "as good" or "better" condition.

ENG146 - TRENCH PAVING - CONCRETE STREETS / SIDEWALKS - CONCRETE STREETS OR SIDEWALKS - ODOT/APWA Specification 00756.60.

1. Any cutting of concrete streets or sidewalk requires a full panel replacement.
2. An Inspector must be on site when removing concrete street panels to verify the adjacent panels are not lifted or damaged.
3. Any damage to adjacent concrete panels caused by the performance of the work permitted under this permit requires additional full panel replacements.

ENG148 - UTILITY - BORE/PUSH - Bore/Push -

1. Granular backfill (1 1/2"-0", 1"-0", or 3/4"-0"), approved by Clackamas County, must be used within three (3) feet of the road surface and must be compacted to a minimum of 95% compaction. Compaction test results are to be submitted to Clackamas County Engineering Division within ten (10) days of completion of project.
2. Contact the inspector listed on this permit if a bore is not possible and alternate installation methods are required. Backfill will be determined at that time for the revised plans.
3. If bore pits are on the back side of the ditch, in native soil, a compaction test will not be required. A one (1) year warranty period will be used on these.
4. Arterial and Collector roadways will require CDF for backfill in the bore pits with the roadway. Saw cut the pavement to a full depth at the trench limits. Double saw cut to provide a twelve (12) inch "T-cut" with a four (4) inch minimum asphaltic concrete replacement or match the existing thickness of existing asphalt removed for trench repair.
5. All asphalt joints must be sealed and sanded.

ENG152 - BIKE PATHS/PED WAYS & ROAD SHOULDERS - Shoulders/Bike Paths/ROW -

1. Road shoulders and right-of-way must be replaced to "as good" or "better" condition with County approved materials.
2. Bike paths and pedestrian walkways are to be repaired to the same standards as the roadway.

#### ENG153 - UTILITY - TRENCH PLATING - Trench Plating -

1. Trench plating and patching is required in any trench within the travel lane, and includes the bike lane and shoulder of the roadway.
2. All trench work shall be backfilled and temporarily patched with two (2) inches asphaltic concrete mix or plated and tapered with cold mix at the end of each workday.
3. Plating shall be positively secured from movement and shall be ramped with cold mix asphalt or approved temporary reusable ramps to provide for all traffic use.
4. Lighted barricades with 'CONSTRUCTION AHEAD' and 'BUMP' signs mounted on them shall be placed sufficiently both ahead and adjacent of the plating to warn all traffic. All plating signs are to remain in place until permanent surface repair paving operations are underway.

#### ENG154 - POTHOLE - Backfill material within the pipe zone shall be sand for gas lines, and granular backfill for all other utilities.

Pothole excavations within road surfaces shall be filled above the pipe zone with CDF and be capped with either twelve (12) inches concrete cap or hot mix A.C. to match the thickness of the asphalt, and sealed with emulsion.

If core pothole excavation occurs on the shoulder, granular fill (meeting County spec.) is the required backfill.

Road shoulders and right-of-way must be restored to as good or better condition with County approved materials.

If a pothole is done within the sidewalk or a concrete street, a full panel replacement is required

#### ENG154 - TRAFFIC CONTROL - Traffic Control - County Code Chapter 7.03.140

1. Provide a traffic control plan for the temporary protection and direction of traffic during the construction. Traffic Control must comply with the "Manual on Uniform Traffic Control Devices" (MUTCD).
2. Check all signs frequently for proper positioning & condition.

#### Protection of Survey Monuments - County Code Chapter 7.03.210:

1. The County Surveyors Office has determined that there is a high probability that local survey monuments exist in or near the immediate work zone.

2. Oregon Revised Statutes 209.140 and 209.150 as well as the County Code, require the protection of all existing survey monuments.

3. These statutes require notice to the County Surveyor prior to disturbing or removing a survey monument. They also require a registered Professional Land Surveyor to reference and replace any disturbed or removed survey monument that is recorded in the County Surveyors Office.

4. The applicant shall employ all necessary means, methods, techniques and sequencing in order to preserve these monuments.

5. Failure to comply with these terms may be prosecuted as stated in ORS 209.990:

## **GENERAL**

- The applicant is hereby authorized to work in the right of way and roadway at the location designated provided all work is performed in accordance with the Clackamas County Code, Roadway Standards, this permit, and conditions of land use approval.
- Each applicant should obtain a copy of the Clackamas County Code and Roadway Standards.
- Any fixed objects installed within County right of way must comply with Clackamas County Code and Roadway Standards.

## **DOCUMENTATION**

Maintain a complete set of the permit, approved plans and any conditions or special provisions at the job site.

## **MODIFICATION OF THE PERMIT**

Engineer of record should request approval for changes to the permit, plans, conditions or provisions if the scope of work changes.

## **NOTIFICATION**

Contact the County at 503-742-4700 with at least one (1) business day's notice for the following:

- a) Start of construction
- b) A break in construction greater than three (3) days (excluding holidays and weekends)
- c) Completion of construction

Be prepared to have your permit number available for entry into this automated system.

## **UTILITY NOTIFICATION**

**ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center.** Those rules are set forth in OAR 952. (Oregon Utility Notification Center 800-332-2344 or 811 or [www.digsafelyoregon.com](http://www.digsafelyoregon.com))

Contact the affected utility companies and request line location services. Resolve any utility conflicts before initiation of construction.

## **SAFETY REQUIREMENTS**

- The person performing the work is responsible for providing adequate safeguards in the form of barricades, pedestrian walks, night lighting, and/or other measures as the Inspector directs. The roadway or walk area shall not be unnecessarily obstructed. All material and debris shall be removed from the public right of way within a reasonable amount of time.
- Keep mud and debris off the traveled portion of the roadway.
- The person performing the work is responsible for personal or property damage resulting from the work and shall hold the County harmless from any and all legal action arising out of said work.
- The County Inspector may order the change or removal of any construction authorized by this permit at any time when the public safety, public convenience, and the general welfare of the public requires such action.

## **CONSTRUCTION AND MAINTENANCE RESPONSIBILITY**

Failure to fulfill the construction requirements, maintain the structures as permitted to the extent that it results in damage to the county or public road, causes a hazard to the public, or where they find violations of the Clackamas County Code, Clackamas County Roadway Standards, 2008 Oregon Standard Specifications, and any special conditions or provisions established for this permit is reason for the Inspector to revoke the permit.

## **CONSTRUCTION**

- Limit work and activity zones (construction, restoration, erosion control, etc.) to no more than 2,500 lineal feet at any one time, unless previously approved by the County.
- Limit open trenches in the right of way of an existing road to no more than 250 lineal feet at any one time, unless previously approved by the County. No trenches are to be left open overnight.

## **ACCESS CONTROL/MANAGEMENT OF THE RIGHT OF WAY**

- Clackamas County retains its right to full supervision and control within the road right of way, and this permit is not exclusive.
- Other utilities or persons may be permitted to occupy the same portion of the road right of way simultaneously.
- The person performing or contracting the work shall not cause interference with any County road work.
- Preserve and protect all public and private infrastructure (i.e. survey monuments, drainage systems, traffic control devices, roadside barriers, utilities, etc.) ensuring that these facilities continue to properly function during the course of the work.

## **TRAFFIC CONTROL**

- Establish and maintain work zone traffic control in compliance with the Oregon Temporary Traffic Control Handbook (OTTCH) For Operations of Three Days or Less (December 2011).
- For traffic control set up for a continuous duration of longer than three (3) days, comply with the latest edition of the Manual

on Uniform Traffic Control Devices (MUTCD) and the Oregon Supplements to the MUTCD.

- Roadway closures are prohibited unless approved by Clackamas County under separate permit and in compliance with the Roadway Standards.

#### **SURVEY MONUMENTS**

ORS 209.140 and 209.150 as well as the County Code 7.03.210 require the protection of all existing survey monuments. These Statutes also require notice to the County Surveyor prior to disturbing or removing any survey monument. This may require the employment of a registered Professional Land Surveyor. The applicant shall employ all necessary means in order to preserve these monuments. Failure to comply with these terms may be prosecuted as stated in ORS 209.990. The Clackamas County Surveyor's Office can be reached at 503-742-4475.

#### **INTERIM RIGHT OF WAY RESTORATION**

Restore and maintain road surfaces to their pre-existing grade with like materials or steel plating at the end of each work day unless otherwise approved. For bituminous road surfaces (asphaltic concrete or chip seals), interim restoration shall be with either hot mix or cold mix asphaltic concrete.

#### **PERMANENT RIGHT OF WAY RESTORATION**

Restore all existing infrastructure affected by the work to original or better condition including but 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 work.

#### **ENVIRONMENTAL**

Approval by Clackamas County does not imply or guarantee approval by Oregon Department of State Lands (DSL), Department of Environmental Quality (DEQ) or US Army Corps of Engineers (COE).

The applicant is responsible for all applications, fees, and coordination of Federal, State and Local regulatory offices with regard to fills and excavations within regulated waterways, riparian zones, and wetlands associated with the Clean Water Act and the Urban Stormwater National Pollutant Discharge Elimination System (NPDES), if required.

#### **EROSION CONTROL**

Install and maintain appropriate erosion and sediment control devices, in accordance with 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. Erosion and sediment control devices must be modified as changing conditions warrant. In the absence of a formal ESCP, comply with Water Environment Services standards (Erosion Prevention Planning and Design Manual), DEQ standards (DEQ Erosion and Sediment Control Manual, April 2005), and/or 1200c Permit, if applicable.

#### **DRAINAGE**

If the work performed under this permit involves or in any way interferes with the drainage of the roadway, the owner shall wholly and at their own expense make such corrections as necessary to the County's satisfaction.

#### **BEST MANAGEMENT PRACTICES**

Ensure all equipment is leak free with sufficient and appropriate spill prevention and clean up materials on site and that the personnel involved with the work are familiar with and proficient in their use. Remove construction equipment from the right of way when not in use. 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. Re-fuel over a pervious surface and use absorbent pads to collect spilled fuel.

#### **CUSTOMER SERVICE**

Communicate and mutually coordinate, as needed, with adjacent residents and business that may be impacted by the work. Interaction with the public shall be in a professional, courteous, and timely manner.

This permit does not permit trespass on the lands of others.



# APPLICATION AND PERMIT TO OCCUPY OR PERFORM OPERATIONS UPON A STATE HIGHWAY

See Oregon Administrative Rule, Chapter 734, Division 55

PERMIT NUMBER

**28M46806**

CLASS:

KEY#

GENERAL LOCATION			PURPOSE OF APPLICATION (TO CONSTRUCT/OPERATE/MAINTAIN)								
HIGHWAY NAME AND ROUTE NUMBER I-5 / 1 / Pacific			<input type="checkbox"/> POLE LINE	TYPE	MIN. VERT. CLEARANCE						
HIGHWAY NUMBER 1	COUNTY Clackamas		<input checked="" type="checkbox"/> BURIED CABLE	TYPE Television							
BETWEEN OR NEAR LANDMARKS 28011 SW Boones Ferry Rd, Wilsonville, 97070			<input type="checkbox"/> PIPE LINE	TYPE							
HWY. REFERENCE MAP ODOT TransGIS	DESIGNATED FREEWAY <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	IN U.S. FOREST <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> NON-COMMERCIAL SIGN AS DESCRIBED BELOW								
APPLICANT NAME AND ADDRESS Sherwood Broadband ATTN: TODD HURD Project#41661(17300) 22560 SW Pine St Sherwood, OR 97140 HURDT@SHERWOODOREGON.GOV / Permits@kbmail.net			<input type="checkbox"/> MISCELLANEOUS OPERATIONS AND/OR FACILITIES AS DESCRIBED BELOW <table border="1"> <tr> <th colspan="2">FOR ODOT USE ONLY</th> </tr> <tr> <td>BOND REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</td> <td>REFERENCE: OAR 734-055-0035(2) AMOUNT OF BOND</td> </tr> <tr> <td>INSURANCE REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</td> <td>REFERENCE: OAR 734-055-0035(1) SPECIFIED COMP. DATE 10/30/2023</td> </tr> </table>			FOR ODOT USE ONLY		BOND REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	REFERENCE: OAR 734-055-0035(2) AMOUNT OF BOND	INSURANCE REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	REFERENCE: OAR 734-055-0035(1) SPECIFIED COMP. DATE 10/30/2023
FOR ODOT USE ONLY											
BOND REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	REFERENCE: OAR 734-055-0035(2) AMOUNT OF BOND										
INSURANCE REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	REFERENCE: OAR 734-055-0035(1) SPECIFIED COMP. DATE 10/30/2023										

## DETAIL LOCATION OF FACILITY (For more space attach additional sheets)

MILE POINT	MILE TO POINT	ENGINEERS STATION	ENGINEERS TO STATION	SIDE OF HWY OR ANGLE OF CROSSING	DISTANCE FROM CENTER OF PVM	R/W LINE	BURIED CABLE OR PIPE DEPTH/VERT.	SIZE AND KIND	SPAN LENGTH
284.85	284.88			±90° Crossing	±125'-0'	±0'-125'	Min. ≥36"	(2)-2" conduit	250'

## DESCRIPTION OF DESIRED USE

Sherwood Broadband proposes to bore to place 250' of (2)-2" conduits a min. of 36" below grade crossing Interstate 5 / 1 / Pacific Hwy near SW Boeckman Rd in City of Wilsonville in ODOT ROW.

## SPECIAL PROVISIONS (FOR ODOT USE ONLY)

## TRAFFIC CONTROL REQUIRED

♦ ☒ YES [OAR 734-055-0025(6)] ☐ NO

## OPEN CUTTING OF PAVED OR SURFACED AREAS ALLOWED

♦ ☐ YES [OAR 734-055-0100(2)] ☒ NO [OAR 734-055-0100(1)]

♦ AT LEAST 48 HOURS BEFORE BEGINNING WORK, THE APPLICANT OR HIS CONTRACTOR SHALL NOTIFY THE DISTRICT REPRESENTATIVE Ryan Boland AT PHONE NO. D2Bup@odot.oregon.gov OR EMAIL OR FAX THIS PAGE TO THE DISTRICT OFFICE AT: D2Bup@odot.oregon.gov. SPECIFY TIME AND DATE WORK IS TO OCCUR.

♦ A COPY OF THIS PERMIT AND ALL ATTACHMENTS SHALL BE AVAILABLE AT THE WORK AREA DURING CONSTRUCTION.

♦ ATTENTION: Oregon Law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0001 through OAR 952-001-0090. You may obtain copies of the rules by calling the center at (503) 232-1987.  
CALL BEFORE YOU DIG 1-800-332-2344

## COMMENTS (FOR ODOT USE ONLY)

At the time of lane and/or complete roadway closure and again when the lane and/or complete roadway is opened on a state highway the Applicant or their Contractor is required to notify ODOT Traffic Management Operations Center (TMOC) 503-283-5859. If during the course of their permitted work the Applicant or their Contractor come across personal property in their work zone they need to contact their permit specialist. The personal property may not be removed by the Applicant or their Contractor. ODOT is not responsible to collect and/or dispose of sharps or biohazard material found within project limits.

IF THE PROPOSED APPLICATION WILL AFFECT THE LOCAL GOVERNMENT, THE APPLICANT SHALL ACQUIRE THE LOCAL GOVERNMENT OFFICIAL'S SIGNATURE BEFORE ACQUIRING THE DISTRICT MANAGER'S SIGNATURE.

LOCAL GOVERNMENT OFFICIAL SIGNATURE		TITLE		DATE	
<b>X</b>					
APPLICANT SIGNATURE		APPLICATION DATE		TITLE	
<b>X</b> <i>[Signature]</i>		10/21/2022		Drafting Manager	
When this application is approved by the Department, the applicant is subject to, accepts and approves the terms and provisions contained and attached: and the terms of Oregon Administrative Rules, Chapter 734, Division 55, which is by this reference made a part of this permit.		DISTRICT MANAGER OR REPRESENTATIVE		TELEPHONE NO. (503) 544-5749	
		<b>X</b> <i>[Signature]</i>		APPROVAL DATE 10-26-22	



# GENERAL PROVISIONS FOR POLELINE, PIPELINE, BURIED CABLE, AND MISCELLANEOUS PERMITS

Revised April 2022

APPLICANT: Sherwood Broadband ATTN: TODD HURD	PERMIT NO 2BM 4 68 0 6
HIGHWAY: I-5 / 1 / Pacific	MP: 284.85

These permit provisions are in addition to the requirements described in Oregon Administrative Rule, Chapter 734, Division 55 and may be supplemented by permit special provisions. In the event of a conflict, the Administrative Rule will apply then these provisions followed by any permit special provisions. Unless otherwise specified, all documents referenced are references to the current version, with any revisions or supplements, in place when the work is conducted.

All checked (☒) provisions apply.

## WORKSITE

- ☒ 1. Access control fence must be maintained during permitted work and restored to its original or better condition after permitted work is complete.
- ☒ 2. The Applicant shall not use state highway right of way to display advertising signs or to display or sell merchandise of any kind.
- ☒ 3. The stopping and parking of vehicles upon state highway right of way for the maintenance of adjoining property or in furtherance of any business transaction or commercial establishment is prohibited.
- ☐ 4. All grass and small brush within the work area shall be rotary or flail mowed to ground level prior to the beginning of work to facilitate clean up.
- ☒ 5. Disturbed areas shall be reseeded with grass native to the area in an appropriate seeding time.
- ☒ 6. The spreading of mud or debris upon any state highway is prohibited and violation shall be cause for immediate cancellation of the permit. Clean up shall be at the Applicant's expense. The highway shall be cleaned of all dirt and debris at the end of each work day, or more frequently as directed by the District Manager or representative.
- ☒ 7. Applicant shall replace any landscape vegetation or fences that are damaged or destroyed. Any damage that is not fully restored within 30 days may be replaced by ODOT at the expense of the Applicant. A "plant establishment" shall be understood to be part of the planting work to assure satisfactory growth of planted materials. The plant establishment period will begin when the original planting has been completed and approved. The length of the establishment period will be one calendar year or as defined in the permit Special Provisions.
- ☐ 8. Applicant shall install and maintain the landscaped area as shown on the attached drawings. Plantings shall be limited to non-invasive, low-growing shrubs, grass or flowers that do not attain sufficient height to obstruct clear vision in any direction. ODOT may remove plantings without liability or loss, injury, or damage of any nature whatsoever if in the future it is determined to be in the public interest to do so.

## TRAFFIC

- ☒ 9. The work area shall be protected in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and the Oregon Temporary Traffic Control Handbook as supplemented or amended by ODOT.
- ☒ 10. For work requiring traffic control devices to be in place continuously for longer than three days, Applicant shall provide a site specific traffic control plan developed based on the principles of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) and ODOT Standards. The traffic control plan may be reviewed by ODOT before work begins. The ODOT review does not relieve the Applicant of responsibility for the accuracy of the traffic control plan.
- ☒ 11. For permitted utility work, the Applicant shall take measures necessary to maintain the accessibility of the state highway including sidewalks and pedestrian areas by individuals with disabilities to the ODOT

Americans with Disability Act (ADA) standard during the course of the work by following the Oregon Temporary Traffic Control Handbook, Section 1.6.

- ☒ 12. When constructing a new utility service line, Applicant shall ensure that advance notice of any temporary pedestrian route is provided in an accessible format to the public, people with disabilities, and disability organizations to the greatest extent possible. The Notice is to be sent to the organizations on the contact list of Centers for Independent Living at [https://www.oregon.gov/odot/Engineering/DOCS\\_ADA/AOCIL-Contacts.pdf](https://www.oregon.gov/odot/Engineering/DOCS_ADA/AOCIL-Contacts.pdf)
- ☒ 13. All damaged or removed highway signs shall be replaced by the Applicant. Installation shall be according to MUTCD and ODOT standards, and shall be completed as soon as possible but no later than the end of the work shift.
- ☐ 14. No lane restrictions are permitted on the roadway during the hours of darkness, on weekends, or between 6:00 AM and 9:00 AM, or 3:00 PM and 6:00 PM (Monday through Friday) without prior approval by ODOT.
- ☒ 15. Hours of work shall be 9:00PM-5:00AM

#### DRAINAGE

- ☐ 16. On-site storm drainage shall be controlled within the permitted property. No blind connections to existing state facilities are allowed.
- ☐ 17. Excavation shall not be done on ditch slopes. Trench excavation shall either be at ditch bottom or outside ditch area. (Minimum depth at bottom of ditch shall be 36 inches; minimum depth outside of ditch shall be 42 inches).
- ☒ 18. Only earth or rock shall be used as fill material and shall slope so as not to change or adversely affect existing drainage. Fine grade and seed the finished fill with native grasses to prevent erosion.
- ☐ 19. A storm drainage study stamped by an Oregon Registered Professional Engineer (PE) is required. The study must meet standards of the National Pollution Discharge Elimination Systems (NPDES) when any of the following conditions apply:
  - whenever a four inch pipe is inadequate to serve the developed area,
  - development site is one acre or larger in size and directly or indirectly affects state facilities, or
  - as directed by the District Manager or representative.
- ☒ 20. Applicant shall provide on-site retention for storm water runoff that exceeds that of the undeveloped site.
- ☒ 21. All water discharged to an ODOT drainage system must be treated prior to discharge. All requests for connection to an ODOT storm system must meet any requirements of the National Pollutant Discharge Elimination System (NPDES). This may include local jurisdiction approval of on-site water quality treatment facilities and/or development of an operation and maintenance plan for any on-site water quality treatment facility, as determined by local jurisdiction.

#### EXCAVATION / CONSTRUCTION

- ☒ 22. "Oregon Standard Specifications for Construction" and ODOT "Standard Drawings" where applicable and not otherwise superseded by the permit, shall be incorporated for use in the permit; <https://www.oregon.gov/odot/engineering/pages/index.aspx>. These documents apply only to the extent they provide standards and performance requirements for work to be performed under the permit. In the event of a conflict, the permit provisions will take precedent.
- ☐ 23. Trench backfill shall be according to the attached typical drawing, marked as Exhibit A.
- ☒ 24. When open cutting of the highway is allowed, all excavation in paved areas shall be backfilled and the roadway surface patched before the end of each shift.
- ☐ 25. Steel plates shall be pinned and a temporary cold patch applied to the edges. The Applicant shall be responsible for monitoring and maintenance of temporary patching and steel plating.
- ☐ 26. Compaction tests shall be required for each open cut per Oregon Standard Specifications for Construction. Compaction tests shall be conducted once for every 300 lineal feet per lift of continuous trench according to the Manual of Field Test Procedures (MFTP), published by ODOT. Percent Compaction shall be at least 95%. Results of compaction test shall be provided upon request of the District Manager or representative at Applicants' expense.

- ☐ 27. Control Density Fill (CDF) shall be used as surface backfill material in place of crushed rock in open trenches that impact the travel portions of the highway. A ¾"-0, or 1"-0 rock will be used for the aggregate. The amount of cement used shall not exceed 3.0% of the total mixture's weight. Maximum compressed strengths must not exceed 250 pounds per square inch (psi).
- ☐ 28. Surface restoration shall be a minimum of four inches of hot asphalt-concrete (AC), compacted in two inch lifts, or to match existing pavement depth, whichever is greater. Sand-seal all edges and joints.
- ☐ 29. Any area of cut or damaged asphalt shall be restored in accordance with the attached "T-Cut Typical Section" drawing. For a period of two years following the patching of the paved surface, Applicant shall be responsible for the condition of the pavement patches, and during that two year period shall repair to District Manager or representative's satisfaction any of the patches which become settled, cracked, broken, or otherwise faulty.
- ☐ 30. An overlay to seal an open-cut area shall be completed prior to the end of the construction season, or when minimum temperature allows per the Oregon Standard Specification for Construction. The overlay shall be 1.5 inches deep and cover the affected area from edge of pavement to edge of pavement, and taper longitudinally at a fifty feet to one inch (50':1") ratio. Taper may be adjusted by the District Manager as required. For a period of two years following this patching of the paved surface, the Applicant shall be responsible for the condition of said pavement patches, and during that time shall repair to the District Manager or representative's satisfaction any of the patches which become settled, cracked, broken or otherwise faulty.
- ☒ 31. Highway crossings of utility lines shall be bored, or jacked. Bore pits shall be located behind the ditch line unless otherwise specified in the permit. Unattended pits shall either be protected by a six-foot fence, backfilled, or steel plated and pinned.
- ☒ 32. Any non-conductive, un-locatable, underground facility shall have a tracer wire or other similar conductive marking tape or device placed the full length of the installed underground facility in compliance with the Oregon Utilities Notification Center rules, OAR Chapter 952.
- ☐ 33. Trench backfill outside of ditch line may be native soil compacted at optimum moisture in twelve inch layers to not less than 95% relative maximum density.
- ☒ 34. Native material that is unsatisfactory for compaction shall be disposed of off the work site and granular backfill used.
- ☐ 35. Trench backfill in rock slope or shoulder shall be crushed 1"-0 or ¾"-0 size rock compacted at optimum moisture in eight-inch layers. Compaction tests shall be conducted according to the Manual of Field Test Procedures (MFTP), published by ODOT. Percent compaction shall be at least 95% maximum density. At the request of the District Manager or representative, results of compaction tests shall be provided to District Manager or representative at Applicant's expense.
- ☐ 36. Where excavation is on fill slope steeper than a two to one (2:1) ratio, slope protection shall be provided using four-inch size rock laid evenly to a minimum depth of twelve inches.
- ☐ 37. No more than 300 feet of trench longitudinally along the highway shall be left open at any one time and no trench shall be left in an open condition overnight.
- ☐ 38. Areas of disturbed cut and fill slopes shall be restored to a condition suitable to the District Manager or representative. Areas of erosion to be inlaid with an acceptable riprap material.
- ☒ 39. All underground utilities shall be installed with three-foot or more of horizontal clearance from existing or contract plans guardrail posts and attachments.
- ☐ 40. Any area of cut or damaged concrete shall be restored in accordance with the attached Typical Section-Pipe Section under sidewalk.
- ☒ 41. Utility markers, pedestals, and vaults shall be placed as near the highway right-of-way line as practical. In no case shall pedestals, vaults, and line markers be located within the area where highway maintenance activities regularly occur including mowing operations, or nearer the pavement edge than any official highway sign in the same general location.
- ☒ 42. No cable plowing is allowed within the lateral support of the highway asphalt (e.g. at six feet lower than the edge of the asphalt, no plowing within nine feet of the edge of the asphalt).
- ☐ 43. Review by the ODOT Bridge Engineer is required for all proposed bridge and structure attachments and for any facilities to be installed within sixteen feet of bridge foundations, supports, walls or related elements, or within the influence zone of bridge facilities.

## MISCELLANEOUS

- ☒ 44. Applicant shall be responsible and liable for (1) investigating presence/absence of any legally protected or regulated environmental resource(s) in the action area; (2) determining any and all restrictions or requirements that relate to the proposed actions, and complying with such, including but not limited to those relating to hazardous material(s), water quality constraints, wetlands, archeological or historic resources(s) state and federal threatened or endangered species, etc., (3) complying with all federal, state, and local laws, and obtaining all required and necessary permits and approvals.
- ☒ 45. If the Applicant impacts a legally protected/regulated resource, Applicant shall be responsible for all costs associated with such impact, including, but not limited to all costs of mitigation and rehabilitation, and shall indemnify, and hold ODOT harmless for such impacts and be responsible and liable to ODOT for any associated costs or claims that ODOT may have.
- ☒ 46. Plans are reviewed by ODOT in general only and do not relieve the Applicant from completing roadway improvements in a manner satisfactory to ODOT. The District Manager or representative may require field changes. When revisions are made in the field, Applicant is responsible to provide "as built" drawings, within 60 days from completion of roadway improvements, and shall submit them to the District Office issuing the permit.
- ☒ 47. Applicant shall be responsible for locating and preserving all existing survey monumentation within the work area in accordance with ORS 209.150 and/or 209.155. If monumentation or its accessories are inadvertently or otherwise disturbed or destroyed, Applicant shall be responsible for all costs and coordination associated with its reestablishment by a professional licensed surveyor.
- ☒ 48. Applicant shall be responsible to restore or replace any curbs or curb ramps damaged by the permitted activity according to ODOT's ADA Standards available at <https://www.oregon.gov/ODOT/Engineering/Pages/Accessibility.aspx>. Any review or inspection of the curbs or curb ramps conducted by ODOT does not relieve the Applicant of the responsibility to comply with any other aspect of federal, state, and local laws, rules and regulations applicable to the work allowed under the permit including but not limited to the Americans with Disabilities Act of 1990.
- ☒ 49. When constructing a minor roadway improvement, Applicant shall comply with all federal, state, and local laws, regulations, executive orders and ordinances applicable to the work under this permit, including, without limitation, the provisions of ORS 276.071. If Applicant chooses to assign their permitted responsibilities to a consultant or contractor, Applicant shall inform the consultant or contractor of the requirements of ORS 276.071.
- ☐ 50. Upon completion of the permitted minor roadway improvement, Applicant shall notify ODOT and request final inspection. If all structures and appurtenances constructed under this permit are found to be in compliance with permit provisions and state standards, ODOT will accept ownership of the permitted structures and appurtenances by written notice to the Applicant.

By this signature Applicant acknowledges that the Applicant is subject to and accepts all checked (☒) provisions (4 pages).

Applicant Representative's Signature: 	Applicant Representative's Title: Drafting Manager	Date: 10/21/2022
--	---	---------------------



**SPECIAL PROVISIONS  
FOR POLELINE, PIPELINE, BURIED CABLE,  
AND MISCELLANEOUS PERMITS**

<b>APPLICANT:</b> Sherwood Broadband	
<b>HIGHWAY:</b> I-5 (001)	<b>MP</b> 284.85-284.88

Permit Number: **2BM 4 68 0 6**

**POT HOLE RESTORATION**


Soft scape potholing:

1. Compacted granule backfill to surface

Hard scape Potholing:

1. Compacted granule backfill within 8 -10" from surface
2. 8-10" non-shrink grout (Off QPL) to surface  
<https://www.oregon.gov/odot/construction/pages/qualified-products.aspx>
3. All pothole locations will need to be maintained by applicant until the final lift of AC is placed.

***ALL POT HOLE LOCATIONS AND MATERIAL USED MUST BE DOCUMENTED AND  
SENT TO DISTRICT***

<b>SIGNATURE:</b> 	<b>DATE</b> 10-25-2022
--	---------------------------

2BM46806

# WILSONVILLE EXPANSION WILSONVILLE, OR 97070

## OWNER / APPLICANT

SHERWOOD BROADBAND  
22560 SW PINE ST  
SHERWOOD, OR 97140  
CONTACT: TODD HURD  
MOBILE: (503) 713-6638  
E-MAIL: HURDT@SHERWOODOREGON.GOV

## DESIGN BY

K&B TECHNICAL SOLUTIONS  
P.O. BOX 2529  
CLACKAMAS, OR 97015  
CONTACT: ERIC ENGLUND  
OFFICE: (503) 650-0471  
MOBILE: (503) 650-0735  
EMAIL: ERIC\_ENGLUND@KBMAL.NET

## SHEET INDEX

SHT	DESCRIPTION
CS	COVER SHEET/VICINITY MAP
1.0 - 1.1	UNDERGROUND RIGHT-OF-WAY PLAN
L	LEGEND



CALL 811 BEFORE YOU DIG  
ATTENTION:  
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED  
BY THE OREGON DEPARTMENT OF TRANSPORTATION  
THAT REQUIRE YOU TO CALL 811 AT LEAST  
2 BUSINESS DAYS PRIOR TO EXCAVATION.  
TO REQUESTIVITY LOCATOR CALL THE OREGON  
UTILITY NOTIFICATION CENTER, 811 AT LEAST  
2 BUSINESS DAYS PRIOR TO EXCAVATION.



PROJECT ID SHW-41061-17300	SHEET CS	 TODD HURD - (503) 713-6638 HURDT@SHERWOODOREGON.GOV	 P.O. BOX 2529, CLACKAMAS, OR 97015 ERIC ENGLUND - (503) 650-0735 ERIC_ENGLUND@KBMAL.NET	DESIGN BY K&B TECHNICAL SOLUTIONS			
				DATE	DESCRIPTION	DESIGNER	DRAWN
				09/04/22	ORIGINAL ISSUE	K.J.R.	R.P.M.

WILSONVILLE EXPANSION  
I-5 / I-17 PACIFIC  
COVER SHEET / VICINITY MAP

2BM46806

SW BOONES FERRY-BOECKMAN RAMP

SW BOECKMAN RD

SW BOONES FERRY RD

INTERSTATE 5



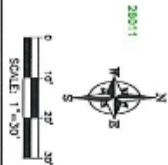
# CONSTRUCTION NOTES

1. TRENCHING TO PLACE 2"X2" HDPE CONDUIT. CONDUIT SHALL BE LAYED IN A CONDITION FOR FIBER PULL. PULL NEW/285' CABLE THROUGH NEW CONDUIT.

1. ALL WORK AREAS TO BE RESTORED TO LIKE OR BETTER CONDITION.
2. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.



ATTENTION: Design Engineer shall be responsible for obtaining all necessary permits and approvals from the appropriate agencies. The design engineer shall be responsible for obtaining all necessary permits and approvals from the appropriate agencies. The design engineer shall be responsible for obtaining all necessary permits and approvals from the appropriate agencies.



MATCH SHEET 1.1



TODD HURD - (360) 713-8638  
HURD@SHERWOODOREGON.GOV



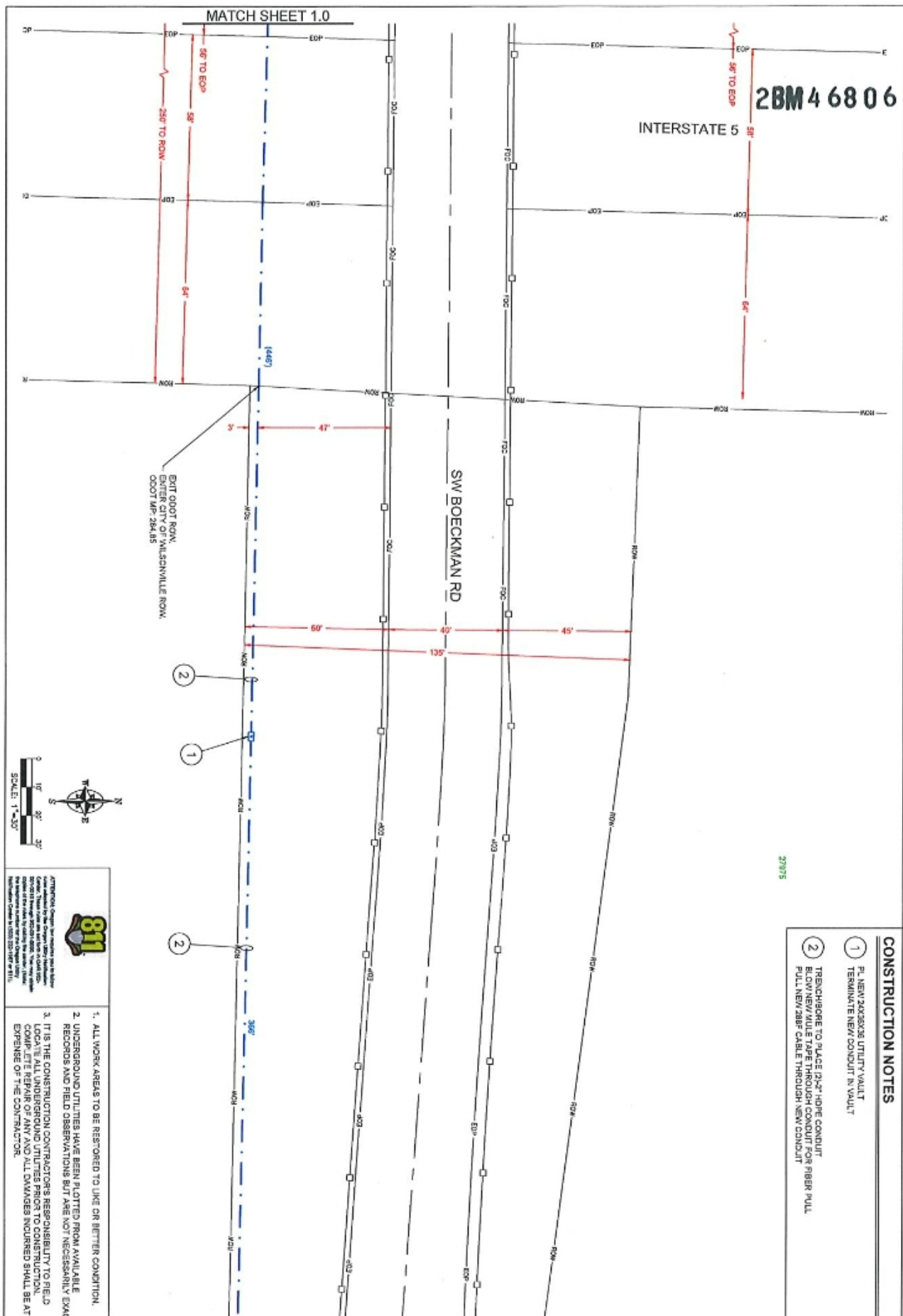
P.O. BOX 2529, CLACKAMAS, OR 97015  
ERIC.ENGLUND - (503) 329-0793  
ERIC\_ENGLUND@GMAIL.NET

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGNER	DRAWN
10/03/22	ORIGINAL ISSUE	A.S.A.	R.P.M.
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WILSONVILLE EXPANSION  
I-5 / I / PACIFIC  
CONDUIT PLAN

PROJECT NO.  
SHW-4-1057-17303

1.0



# CONSTRUCTION NOTES

1. PL NEW 24X36X36 UTILITY VAULT  
TERMINATE NEW CONDUIT IN VAULT
2. TRENCH TO PLACE 12" HDPE CONDUIT  
BLOW NEW WILE TAPE THROUGH CONDUIT FOR FIBER PULL.  
PULL NEW 288F CABLE THROUGH NEW CONDUIT

**811**

Call before you dig. 811 is the national number for locating underground utilities. In Oregon, call 811 to request a utility locate. The locate will be completed within 2 business days. If you need a locate for a specific project, call 811 or visit [www.oregon.gov/811](http://www.oregon.gov/811).

1. ALL WORK AREAS TO BE RESPONDED TO LIKE OR BETTER CONDITION.  
2. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT.  
3. IT IS THE CONSTRUCTION CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

**Sherwood Broadband**

TODD HURD - (360) 713-6638  
HURDT@SHERWOODOREGON.GOV

**K&B TECHNICAL SOLUTIONS**

P.O. BOX 2628, CLACKAMAS, OR 97015  
ERIC ENSLUND - (503) 329-0793  
ERIC\_ENSLUND@K&BMAIL.NET

DATE	DESCRIPTION	DESIGNER	DRAWN
10/04/22	ORIGINAL ISSUE	K.E.S.	B.P.M.
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WILSONVILLE EXPANSION  
I-5 / I-17 PACIFIC  
CONDUIT PLAN

PROJECT ID:  
SH-WA-1591-17300

# LINE TYPES

EXISTING AERIAL CABLE	
PROPOSED AERIAL CABLE	
EXISTING CONDUIT	
PROPOSED CONDUIT	
RIGHT-OF-WAY	
PUBLIC UTILITY EASEMENT	
EASEMENT	
PROPERTY	
CENTERLINE	
FACE OF CURB	
EDGE OF PAVEMENT	
EDGE OF CONCRETE	
EDGE OF GRAVEL	
EDGE OF SIDEWALK	
EDGE OF DRIVEWAY	
EXCAVATION LIMITS	
SEWER	
STORM	
WATER	
GAS	
POWER	
TELEPHONE	
FIBER OPTIC	
CATV	
TRAFFIC SIGNAL	
STREET LIGHT	
IRRIGATION	
UNKNOWN UTILITY	
FENCE LINE	
GUARD RAIL	
TRACKS	
BUILDING FOOTPRINT	

# SYMBOLS

UTILITY POLE	
EXISTING RISER	
PROPOSED RISER	
EXISTING ANCHOR & DOWNGUY	
PROPOSED ANCHOR & DOWNGUY	
EXISTING SW ANCHOR & DOWNGUY	
PROPOSED SW ANCHOR & DOWNGUY	
EXISTING SW ANCHOR & DOWNGUY	
PROPOSED SW ANCHOR & DOWNGUY	
POLE-TO-POLE GUY	
WRECKOUT SPAN	
EXISTING MIDSPAN CLAMP	
PROPOSED MIDSPAN CLAMP	
EXISTING SPICE	
PROPOSED SPICE	
PROPOSED AERIAL STORAGE	
VAULT	
PEDESTAL	
MAN-HOLE	
WALL	
HYDRANT	
METER	
VALVE	
POWER TRANSFORMER	
STREET LIGHT	
TRAFFIC SIGNAL POLE	
SIGNAL CONTROLLER	
CROSS WALK SIGNAL	
RAILROAD SIGNAL	
TREE	
CULVERT	

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
04/22	ORIGINAL ISSUE	EJR	R.P.M.
-	-	-	-
-	-	-	-
-	-	-	-



P.O. BOX 2029, CLACKAMAS, OR 97015  
ERIC ENGLUND - (503) 329-0793  
ERIC\_ENGLUND@KBMAIL.NET



TODD HURD - (360) 713-8838  
HURD@SHERWOODOREGON.GOV

**Freeway Shoulder Work****Diagram 710**

Diagram 710 covers stationary work with work operations and/or parked equipment on the shoulder and not encroaching on the travel lanes.

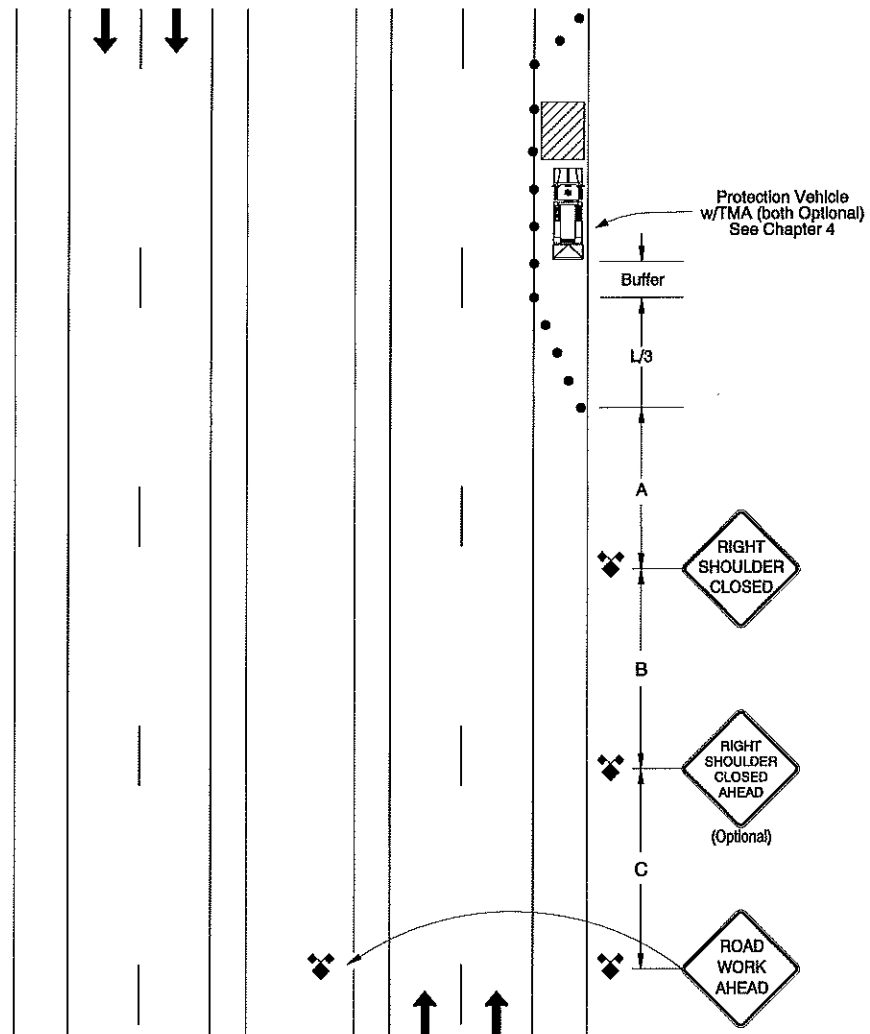
1. Use truck-mounted flashing warning lights on work and protection vehicles. See Section 4.3 – Lights and Lighted Signs for exceptions.
2. For added visibility, a truck-mounted arrow board or PCMS in caution mode may be used.
3. For work that is in place less than 15 minutes and within 15 feet of the travel lane if more than 1000 feet of stopping sight distance is maintained, no signs or devices are needed.
4. The shoulder should be closed as shown with cones and a minimum of two signs for work lasting longer than 15 minutes and if the work is within 15 feet of the travel way.
5. If work is in the median, signs **shall** be on the left.
6. For work that moves frequently, advance warning signing may be placed to cover a distance that includes all work locations for a maximum 5 miles.

**Freeway Sign Spacing and Buffer Lengths (feet)**

Posted Speed	Spacing Between Signs			"Buffer" Space
	A	B	C	
55	1000	1500	2640	250
60				285
65				325
70				365

## Freeway Shoulder Work

## Diagram 710



**Freeway Lane Closures****Diagram 720**

Diagram 720 covers lane closures on a freeway. It is recommended that lane closures only be in place during off peak hours. The traffic control should be placed during the lowest traffic volume period available.

1. A minimum of three advance warning signs is required.
2. Use truck-mounted flashing warning lights on work and protection vehicles. See Section 4.3 – Lights and Lighted Signs for exceptions.
3. For added visibility, a truck-mounted arrow board or PCMS in caution mode may be used.
4. An arrow panel or PCMS in arrow mode is required for each lane closure. Only one arrow panel per lane closure is allowed.
5. Placement of signs in a median is required for left lane closures or any time there is room for a truck to be parked on the left out of the travel lane.
6. When closing a right lane and it is not practical to install signs on the left shoulder, or there is inadequate room to park a truck on the left out of the travel lane:
  - a. Install an additional RIGHT LANE CLOSED AHEAD sign 1500 feet in advance of or following the other RIGHT LANE CLOSED AHEAD sign, or
  - b. Install a PCMS at least  $\frac{1}{2}$  mile before the initial advance warning sign. The PCMS should display the closure information (RIGHT, LEFT, LANE or 2 LANES) and the distance to the closure.
7. When an interior lane must be closed, close the adjacent lanes from the shoulder toward the work space. Start from the closest shoulder to minimize the number of closed lanes. When closing lanes from the median side extra attention should be given to advance warning and good sight exposure for the transition areas.
8. The length of lane closures should be adjusted and sign spacing may be lengthened to provide for safe transition movements in unusual situations such as crest or horizontal curves.
9. A downstream taper may be used at the end of the lane closure(s) to transition traffic back to normal lane use.
10. If traffic backs up beyond the initial advance warning signs, place additional appropriate advance warning signs.

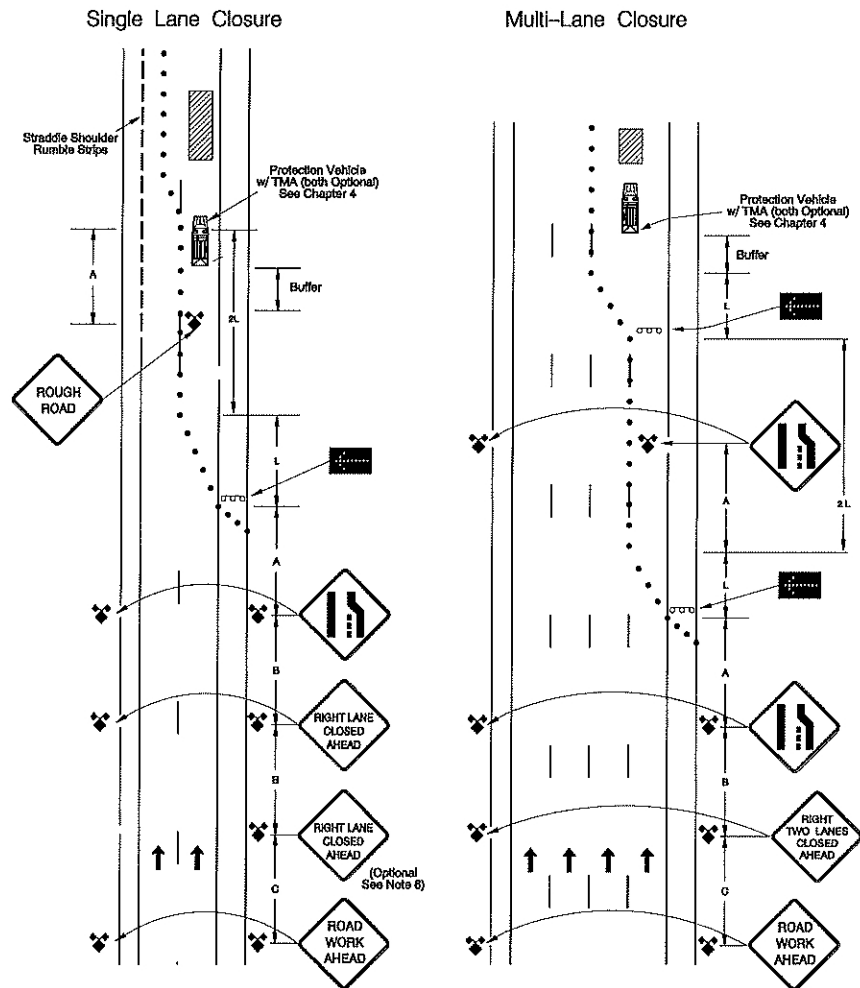
Freeways

**Freeway Sign Spacing and Buffer Lengths (feet)**

Posted Speed	Spacing Between Signs			"Buffer" Space
	A	B	C	
55	1000	1500	2640	250
60				285
65				325
70				365

Freeway Lane Closures

Diagram 720



SUGGESTED MESSAGES

	PANEL 1	PANEL 2
Right Lane Closure	TRAFFIC USE LEFT SHOULDER	ROUGH ROAD AHEAD      RIGHT LANE CLOSED
Left Lane Closure	TRAFFIC USE RT SHOULDER	ROUGH ROAD AHEAD      LEFT LANE CLOSED

# Oregon Department of Transportation 48HR. Work Notice

## District **2B** Permit Work Information

Permit #: **2BM46806**

Please return this form via email to address shown at right:  
Or Fax to 503.653.5655

[d2bup@odot.oregon.gov](mailto:d2bup@odot.oregon.gov) (District 2B Permitting)

Applicant Name: \_\_\_\_\_

Received Info From: \_\_\_\_\_

Phone: \_\_\_\_\_

Contractor: \_\_\_\_\_

Contractor Contact: \_\_\_\_\_

Contractor Phone: \_\_\_\_\_

24-Hr Emergency#: \_\_\_\_\_

Highway Name & Route #: \_\_\_\_\_ #: \_\_\_\_\_

Mile points: \_\_\_\_\_ -- \_\_\_\_\_ (On Permit)

Direction of Travel: \_\_\_\_\_

Nature of work being done: \_\_\_\_\_

Is a Traffic Signal shut off required (Yes ☐ / No ☐)?

Signal shut off 72 hour Notice submitted? ☐ Yes ☐ No

Type of traffic control / restriction / lane closures: \_\_\_\_\_

Work Duration (Start/Finish Dates and Work Hours): Dates: Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Hours: Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Will Traffic impacts remain in place after work hours (i.e. steel plates, cones, etc.)?

No? ☐

Yes? ☐ If "yes" please explain: \_\_\_\_\_

\_\_\_\_\_

### **NOTICE:**

All sections must be completed.  
Forms with incomplete or inaccurate  
information will be returned for correction.  
Strikethrough or "N/A" sections which do not apply.



**City of Wilsonville  
Engineering Division**  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
pwpermits@ci.wilsonville.or.us

# Permit

Permit NO.: PU22-0126

Permit Type: **Public Utility**

Work Classification: **Public Utility**

Permit Status: **Issued**

Issue Date: **02/14/2023**

Expiration: **02/14/2024**

## Location Address

**7990 SW BOECKMAN RD, WILSONVILLE, OR 97070**

## Parcel Number

**31W13B 02401**

## Contacts

City of Sherwood

**Applicant**

(360)713-8638

hurdt@sherwoodoregon.gov

Sherwood Public Works

**Contractor**

15527 SW WILLAMETTE ST, SHERWOOD, OR 97140

Jeff Mettert

**Engineer**

PO Box 2529, Clackamas, OR 97015

jeff\_mettert@kmail.net

**Description:** Route 7,527' of fiber 288ct fiber through existing underground conduit, trench 7' and bore 3,228' to install (2)-2" conduits with 288ct fiber a min. of 36" below grade. Remove & replace 36ft<sup>2</sup> of sidewalk. Install (8)-24"x36". Contact Manny Ghiselline at 503/209-5376 for inspections. No fee per Amy. It's part of the City's fiber infrastructure.

**Valuation:** \$0.00

**Total Sq Feet:** 0.00

## Inspection Requests:

ci.wilsonville.or.us/online-portal

Fees	Amount
------	--------

**Total:**

Payments	Amt Paid
----------	----------

**Total Fees**

**Amount Due:**

## Inspections:

Inspection Type	
-----------------	--

Final Engineering	
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The approval of this permit by the City of Wilsonville Engineering Division means that we have to the best of our ability reviewed the plans and other submitted information for reasonableness and compliance with minimum city published standards and specifications while also incorporating division policies. This approval does not supersede those standards and specifications, unless specifically varied by the City. Permit approval does not relieve the private engineer from responsibility for errors, omissions, or deficiencies made that was within their control.

\*\*\*\*\*ci.wilsonville.or.us/conditions

February 14, 2023

Issued By: Amy Pepper

Date



## City of Wilsonville

### PW/PU/PR PERMITS GENERAL CONDITIONS

1. Applicant must comply with all applicable provisions of federal and state law, the Wilsonville Code, and the terms of any agreement with the City regarding work to be done pursuant to this permit.
2. Work shall conform to the current edition of the City of Wilsonville Public Works Standards.
3. The work area and approach roads shall be maintained in a clean condition, free from obstructions and hazards. The spreading of mud or debris or storage of materials or equipment (unless permitted) of any kind upon any public roadway is strictly prohibited and violation shall be cause for immediate cancellation of the permit. The City may at any time order immediate clean-up and suspension of work to accomplish clean-up.
4. Prior to starting work, effective and approved erosion control measures must be installed and maintained meeting the Wilsonville and DEQ requirements. The City may at any time order corrective action and suspension of work to accomplish effective erosion control.
5. Disturbed landscaped areas shall be restored or replaced to existing condition or better. Existing signs, pavement markings, mailboxes, etc. shall be reinstalled or replaced, with like kind of material. Obtain City approval of restoration work.
6. Public roadway shall not be closed to traffic, at any time, without obtaining written approval from the City Engineer. The applicant is responsible to provide 48 hour advance notice of traffic flow disruptions to affected businesses, residents and area wide Emergency Services: Wilsonville Police Department, Tualatin Valley Fire & Rescue, Wilsonville SMART, Tri-Met, and West Linn Wilsonville School District and other service providers impacted by such closure.
7. Access to existing properties shall be maintained at all times, including normal delivery service and mail service. Obtain City approval of any access closures.
8. Oregon law requires following the rules adopted by the Oregon Utility Notification Center. Said rules are set forth in OAR 952-001-0100 through OAR 952-001-0080. Copies of said rules may be obtained from the Center by calling 1-800-332-2344 (or 811). If you have any question about the rules, contact the Center. NOTE: Damage to utilities shall be corrected at the permit holder's expense.
9. Applicant must verify all existing utilities for both vertical elevation and horizontal location prior to start of work (pothole before digging if necessary). Should conflicts arise and redesign or relocation of facilities be necessary, it shall be done at the applicant's expense. Changes must be approved by the City in advance of work. Applicant shall coordinate the work with affected utility agencies.
10. A temporary hard-surface patch shall be placed on trenches within roadways at the end of each work shift if left open for more than 48 hours. Otherwise a steel plated sheet is acceptable. Obtain advance approval of patching method. No trench shall be left at any time in an un-safe condition. Applicant is responsible for and is liable for hazards or damage resulting from the prosecution of the work.



## City of Wilsonville

### PW/PU/PR PERMITS GENERAL CONDITIONS

11. Work under this permit shall include repair of existing facilities (roads, ditches, etc.) as may be necessary, as determined by the Inspector, to overcome deterioration or damage which occurred in conjunction with the work authorized by the permit. Corrective work shall be done at the applicant's expense.
12. Work is permitted in daylight between the hours of 7:00 a.m. to 8:00 p.m. Monday-Friday and Saturday 9:00 a.m. to 6:00 p.m. Pacific Standard Time; or 9:00 a.m. to 9:00 p.m. Monday-Friday and Saturday 9:00 a.m. to 7:00 p.m. Pacific Daylight unless otherwise authorized by the City. Required inspections will occur during regular business hours unless a written request is approved by the City Engineer.
13. Hours of construction work on collector and arterial roads will be limited to 9:00 a.m. to 3:00 p.m. unless authorized by the City Engineer. Work will not be permitted on collector and arterial roads between 3:00 p.m. to 9:00 a.m. unless authorized by the City Engineer.
14. The applicant shall notify the City twenty-four (24) hours prior to commencing work, prior to any staged inspection and after completing work covered by the permit.
15. Existing monuments, property corners, and survey markers shall be protected. Replacement shall be at the permit holder's expense.
16. Where excavated trenches located in the right-of-way are not backfilled at the end of the construction day, the trench shall be covered with Steel Plates. Plates shall not be left in the travel lane for longer than 5 working days unless approved in writing by the City Engineer.
17. Sidewalk and curbs damaged or disturbed during construction shall be fully replaced joint to joint. Partial panel replacement is not allowed.
18. Driveway approaches and ADA ramps damaged or disturbed during construction shall be fully replaced in accordance with "Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way" (PROWAG) July 2011 Edition. Where existing the driveway approach meets current PROWAG standards, full panel replacement is allowed.
19. All underground utilities shall have a minimum of 36" cover, as measured from the finished grade to the top of the utility.
20. When physically locating underground utilities in roadways, the roadway surface shall be cored not square-cut. Base, subbase, or subgrade material that has been removed shall be replaced with CLSM or ¾"-0" crushed aggregate backfill to the correct distance below the top of the existing pavement surface and repaved to match existing surface (Portland Cement Concrete (PCC) or Asphaltic Concrete). Cold-patch mix may be used as a temporary patch. Within 5 working day s after completion of all paving or utility work, the contactor shall repair all cored areas with PCC or hot-patch asphalt mix.