

DESIGNED FOR



MASON COUNTY PUD #1  
SHELTON, WASHINGTON

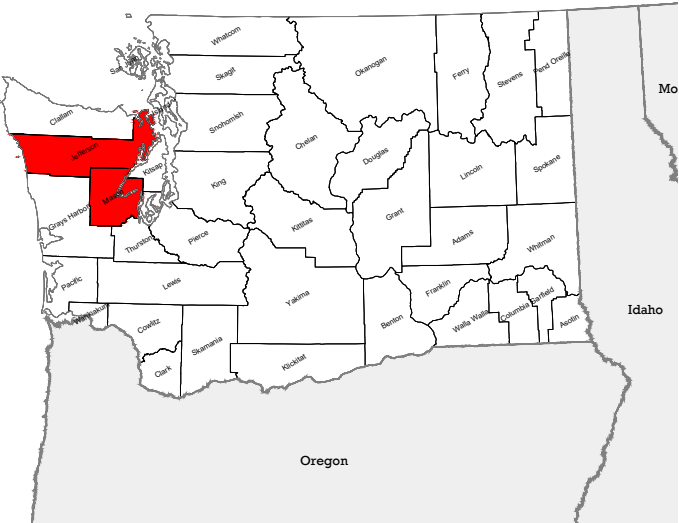
PROJECT

ELDON - DUCKABUSH RECONDUCTOR

| DISTRIBUTION LINE CHARACTERISTICS                                                                                                                                                                              |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| DESIGN                                                                                                                                                                                                         | 12.47 kV OVERHEAD       |
| CONDUCTOR                                                                                                                                                                                                      | 336.4 MCM ACSR "MERLIN" |
| PROJECT LENGTH: 5.1 MILES                                                                                                                                                                                      |                         |
| LOADING DESIGN: WORST CASE OF THE FOLLOWING:<br>2023 NESC 250B MEDIUM LOADING (GRADE C)<br>2023 NESC 250C EXTREME WIND (85 MPH, 60°F)<br>2023 NESC 250D EXTREME ICE WITH CONCURRENT WIND (30 MPH, 0.25", 15°F) |                         |

\* THE INFORMATION SHOWN IN THIS TABLE SHALL BE TREATED AS GENERAL INFORMATION ABOUT THE OVERALL PROJECT AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

LOCATION



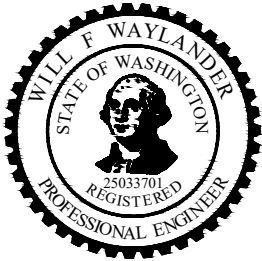
JEFFERSON & MASON  
COUNTIES, WASHINGTON

ENGINEERED BY



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SPRINGFIELD, MO 65804  
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www.tothassociates.com  
CERTIFICATE OF AUTHORITY:  
WA# 604 082 498  
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Drawings and specifications in this set are not intended for use on other projects at this site or other sites without written approval of the engineer



or  
1-800-424-5555  
www.callbeforeyoudig.washington

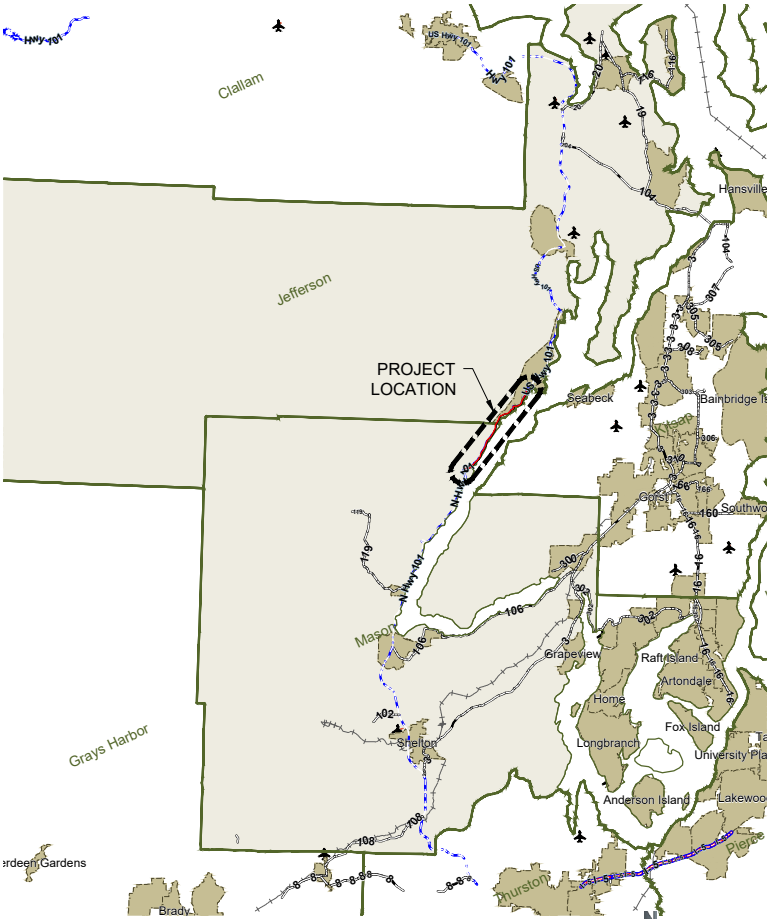
ISSUED FOR  
BID - ADDENDUM  
NOT RELEASED  
FOR CONSTRUCTION



PROJECT PLAN

0 3/8 3/4  
NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES  
H. SCALE: 1" = 3/4 Mile

BASIS OF BEARING  
NAD83, WASHINGTON STATE  
PLANE, NORTH ZONE

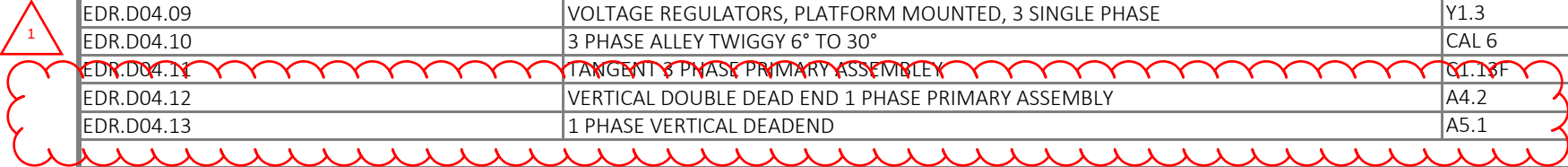


VICINITY MAP

0 4 8  
NOTE: DRAWING REPRODUCTION AND SCALING MAY CHANGE THE INDICATED GRAPHIC SCALES  
H. SCALE: 1" = 8 Miles



| MASON COUNTY PUD 1                                             |  |  | NO  | REVISION                  |                  | DATE     | BY  |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|---------------------------|------------------|----------|-----|
|                                                                |                                                                                     |                                                                                     | A   | ISSUED FOR BID            |                  | 9/4/26   | BDR |
|                                                                |                                                                                     |                                                                                     | B   | ISSUED FOR BID - ADDENDUM |                  | 10/20/26 | EAN |
|                                                                |                                                                                     |                                                                                     |     |                           |                  |          |     |
|                                                                |                                                                                     |                                                                                     |     |                           |                  |          |     |
| ELDON-DUCKABUSH RECONDUCTOR<br>DISTRIBUTION LINE DRAWING INDEX |                                                                                     |                                                                                     |     |                           |                  |          |     |
| COVER SHEET & INDEX                                            | DESCRIPTION                                                                         |                                                                                     | REV | DATE                      | REVISION PURPOSE |          |     |
| EDR.D00.01                                                     | COVER SHEET                                                                         |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D00.02                                                     | DRAWING INDEX                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D00.03                                                     | DRAWING INDEX                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D00.04                                                     | CONSTRUCTION SPECIFICATIONS                                                         |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
|                                                                |                                                                                     |                                                                                     |     |                           |                  |          |     |
| PLAN & PROFILES                                                | DESCRIPTION                                                                         | STATION                                                                             | REV | DATE                      | REVISION PURPOSE |          |     |
| EDR.D02.01                                                     | PLAN AND PROFILE                                                                    | EX-20580 TO EDR-10                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.02                                                     | PLAN AND PROFILE                                                                    | EDR-10 TO EDR-19                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.03                                                     | PLAN AND PROFILE                                                                    | EDR-19 TO EDR-31                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.04                                                     | PLAN AND PROFILE                                                                    | EDR-31 TO EDR-41                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.05                                                     | PLAN AND PROFILE                                                                    | EDR-41 TO EDR-54                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.06                                                     | PLAN AND PROFILE                                                                    | EDR-54 TO EDR-64                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.07                                                     | PLAN AND PROFILE                                                                    | EDR-64 TO EDR-75                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.08                                                     | PLAN AND PROFILE                                                                    | EDR-75 TO EDR-87                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.09                                                     | PLAN AND PROFILE                                                                    | EDR-87 TO EDR-95                                                                    | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.10                                                     | PLAN AND PROFILE                                                                    | EDR-95 TO EDR-107                                                                   | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.11                                                     | PLAN AND PROFILE                                                                    | EDR-107 TO EDR-117                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.12                                                     | PLAN AND PROFILE                                                                    | EDR-117 TO EDR-125                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.13                                                     | PLAN AND PROFILE                                                                    | EDR-125 TO EDR-135                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.14                                                     | PLAN AND PROFILE                                                                    | EDR-135 TO EDR-144                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.15                                                     | PLAN AND PROFILE                                                                    | EDR-144 TO EDR-152                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.16                                                     | PLAN AND PROFILE                                                                    | EDR-152 TO EDR-164                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.17                                                     | PLAN AND PROFILE                                                                    | EDR-164 TO EDR-174                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D02.18                                                     | PLAN AND PROFILE                                                                    | EDR-174 TO EDR-184                                                                  | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
|                                                                |                                                                                     |                                                                                     |     |                           |                  |          |     |
| STAKING SHEETS                                                 | DESCRIPTION                                                                         |                                                                                     | REV | DATE                      | REVISION PURPOSE |          |     |
| EDR.D03.01                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.02                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.03                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.04                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.05                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.06                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.07                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.08                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.09                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.10                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.11                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.12                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.13                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.14                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.15                                                     | STAKING SHEET                                                                       |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.D03.16                                                     | STAKING SHEET SUMMARY                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.01                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.02                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.03                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.04                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.05                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.06                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.07                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |
| EDR.R03.08                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | B   | 10/20/2026                | ISSUED FOR BID   |          |     |



|                           |                                                                        |             |            |             |                         |
|---------------------------|------------------------------------------------------------------------|-------------|------------|-------------|-------------------------|
| EDR.R03.09                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.10                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.11                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.12                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.13                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.14                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.15                | REMOVAL STAKING SHEET                                                  |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.R03.16                | REMOVAL STAKING SHEET SUMMARY                                          |             | B          | 10/20/2026  | ISSUED FOR BID          |
|                           |                                                                        |             |            |             |                         |
| <b>STRUCTURE DRAWINGS</b> | <b>DESCRIPTION</b>                                                     | <b>TYPE</b> | <b>REV</b> | <b>DATE</b> | <b>REVISION PURPOSE</b> |
| EDR.D04.01                | 3 PHASE TWIGGY- 0°-2°                                                  | CAL 1       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.02                | 3 PHASE TWIGGY- 2°-5°                                                  | CAL 2       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.03                | TAP GUIDE 1 PHASE PRIMARY ASSEMBLY                                     | A5.3NG      | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.04                | 8' PRE-ASSEMBLED DOUBLE DEADEND                                        | C6.21F      | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.05                | SUSPENSION ANGLE (SMALL ANGLE)                                         | C3.1L       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.06                | SUSPENSION ANGLE (LARGE ANGLE)                                         | C3.1        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.07                | DEADEND ANGLE                                                          | C4.1G       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.08                | 8' PRE-ASSEMBLED SINGLE DEADEND                                        | C5.21F      | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.09                | VOLTAGE REGULATORS, PLATFORM MOUNTED, 3 SINGLE PHASE                   | Y1.3        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.10                | 3 PHASE ALLEY TWIGGY 6° TO 30°                                         | CAL 6       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.11                | TANGENT 3 PHASE PRIMARY ASSEMBLY                                       | C1.18F      | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.12                | VERTICAL DOUBLE DEAD END 1 PHASE PRIMARY ASSEMBLY                      | A4.2        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D04.13                | 1 PHASE VERTICAL DEADEND                                               | A5.1        | B          | 10/20/2026  | ISSUED FOR BID          |
|                           |                                                                        |             |            |             |                         |
| <b>ANCILLARY DRAWINGS</b> | <b>DESCRIPTION</b>                                                     | <b>TYPE</b> | <b>REV</b> | <b>DATE</b> | <b>REVISION PURPOSE</b> |
| EDR.D05.01                | DOWN GUY                                                               | E1.1        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.02                | SPAN GUYS                                                              | E1.4        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.03                | DOUBLE HELIX SCREW ANCHORS                                             | F2.8        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.04                | SINGLE PHASE CONVENTIONAL TRANSFORMER                                  | G1.4-1.5    | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.05                | GROUNDING                                                              | H1.1        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.06                | CUTOUT - SINGLE PHASE                                                  | S1.1        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.07                | SECONDARY ASSEMBLIES, LARGE ANGLE                                      | J2.1, J2.2  | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.08                | JUMPER SUPPORTING POST INSULATOR ASSEMBLY                              | MS3.1/4.1   | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.09                | SINGLE PHASE PRIMARY RISER                                             | UA1.2       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.10                | SECONDARY OVERHEAD TO UNDERGROUND RISER ASSEMBLY W/ SECONDARY PEDASTAL | UK2.1       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.11                | 1 PHASE JUNCTION BOX, 4 WAY                                            | US1.PJ      | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.12                | CUTOUTS (3 SINGLE PHASE)                                               | S1.3        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.13                | 3 PHASE SWITCH, UNDERSLUNG                                             | S2.32       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.14                | 3 PHASE PRIMARY RISER                                                  | UC2.2       | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.15                | THREE 1 PHASE DIELECTRIC RECLOSERS                                     | R3.3        | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D05.16                | SECONDARY PEDASTAL, UNDERGROUND CABLE                                  | UK5         | B          | 10/20/2026  | ISSUED FOR BID          |
|                           |                                                                        |             |            |             |                         |
| <b>FOUNDATIONS</b>        | <b>DESCRIPTION</b>                                                     | <b>TYPE</b> | <b>REV</b> | <b>DATE</b> | <b>REVISION PURPOSE</b> |
| EDR.D07.01                | POLE HOLE DEPTH AND BACKFILL REQUIREMENTS                              | TM-10-MA01  | B          | 10/20/2026  | ISSUED FOR BID          |
|                           |                                                                        |             |            |             |                         |
| <b>MATERIAL LIST</b>      | <b>DESCRIPTION</b>                                                     |             | <b>REV</b> | <b>DATE</b> | <b>REVISION PURPOSE</b> |
| EDR.D09.01                | MATERIAL LIST                                                          |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D09.02                | MATERIAL LIST                                                          |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D09.03                | MATERIAL LIST                                                          |             | B          | 10/20/2026  | ISSUED FOR BID          |
| EDR.D09.04                | MATERIAL LIST                                                          |             | B          | 10/20/2026  | ISSUED FOR BID          |

# GENERAL NOTES

- 1) PLUMB EXISTING STRUCTURES WHEN REFRAMING
- 2) IF EXISTING POLES H/C DOES NOT MATCH STAKING SHEETS ON REUSED STRUCTURES, CONTACT ENGINEER
- 3) IF ANCHOR IS REUSED, PULL TEST (18 KIP AND HOLD FOR 1 MINUTE) AND INSPECT BEFORE USE
- 4) REFRAMING OF EXISTING POLES TO INCLUDE PLUGGING UNUSED BOLT HOLES
- 5) VERIFY NEUTRAL HEIGHT IS 7 FEET BELOW PRIMARY CONDUCTOR ON NEW AND EXISTING STRUCTURES
- 6) COMMUNICATION LINES TO BE REFRAMED ON CROSSARMS. MAINTAIN 3.5 FEET OF CLEARANCE FROM ENGERGIZED COMPONENTS WHEN MOUNTING.
- 7) ALL STRUCTURE FRAMING SHALL USE VISE TOP INSULATORS. INSULATORS MAY BE REUSED IF IN GOOD SERVICABLE CONDITION.
- 8) IF SECONDARY OR COMMUNICATION TAPS ACROSS HWY DO NOT MEET WASDOT CLEARANCE REQUIREMENTS, RETENSION SUFFICIENTLY TO PASS HWY CROSSING CLEARANCE HEIGHTS, OR RE MOUNT TAP POLE ATTACHMENTS TO OBTAIN SUFFICIENT HEIGHT.
- 9) WASDOT CLEARANCE REQUIREMENTS ARE AS FOLLOWS:
  - 9a) JOINT USE STRUCTURES, COMMUNICATION LINES: 20 FEET VERTICAL
  - 9b) 0-750V : 24 FEET VERTICAL
  - 9c) 751-15,000V : 30 FEET VERTICAL WHEN CROSSING, 27 FEET VERTICAL WHEN LONGITUDINAL TO ROAD
- 10) WHEN REFRAMING EXISTING STRUCTURES, IF PLACEMENT OF HARDWARE OR EQUIPMENT CHANGES BY LESS THAN ONE FOOT, IT IS PERMISSIBLE TO LEAVE THE HARDWARE OR EQUIPMENT IN ITS CURRENT MOUNTING LOCATION.

|                             |                           |   |                                                                                                                                                                                                                                                                                         |                                                                                         |                                                                                                                                                     |                         |
|-----------------------------|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| DATE                        | REVISION                  | # | <br>1550 E REPUBLIC RD<br>SPRINGFIELD, MO 65804<br>Ph: 417-888-0645 Fax: 417-888-0657<br>www.tothassociates.com<br>CERTIFICATE OF AUTHORITY:<br>WAR# 604 082 498<br>© 2026 Toth and Associates, Inc. | DWN. BY:<br>BDR<br>CRD. BY:<br>EAN<br>APPD. BY:<br>WFW<br>DATE:<br>06/16/2026<br>TITLE: | PROJECT:<br>ELDON-DUCKABUSH<br>RECONDUCTOR<br>LOCATION:<br>MASON AND JEFFERSON COUNTIES, WA<br>CLIENT:<br>MASON COUNTY PUD 1<br>SHELTON, WASHINGTON | SHEET NO.<br>EDR.D00.04 |
| 09/04/2026                  | ISSUED FOR BID            | A |                                                                                                                                                                                                                                                                                         |                                                                                         |                                                                                                                                                     |                         |
| 10/20/2026                  | ISSUED FOR BID - ADDENDUM | B |                                                                                                                                                                                                                                                                                         |                                                                                         |                                                                                                                                                     |                         |
|                             |                           |   |                                                                                                                                                                                                                                                                                         |                                                                                         |                                                                                                                                                     |                         |
|                             |                           |   |                                                                                                                                                                                                                                                                                         |                                                                                         |                                                                                                                                                     |                         |
| CONSTRUCTION SPECIFICATIONS |                           |   |                                                                                                                                                                                                                                                                                         |                                                                                         |                                                                                                                                                     |                         |