

DESIGNED FOR



MASON COUNTY PUD #1  
SHELTON, WASHINGTON

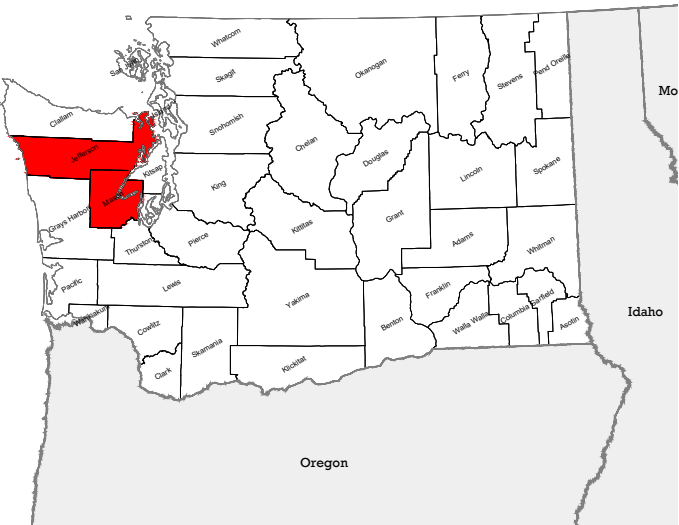
PROJECT

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



1550 E. REPUBLIC ROAD  
SPRINGFIELD, MO 65804  
Ph: 417-888-0645 Fax: 417-888-0657  
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



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

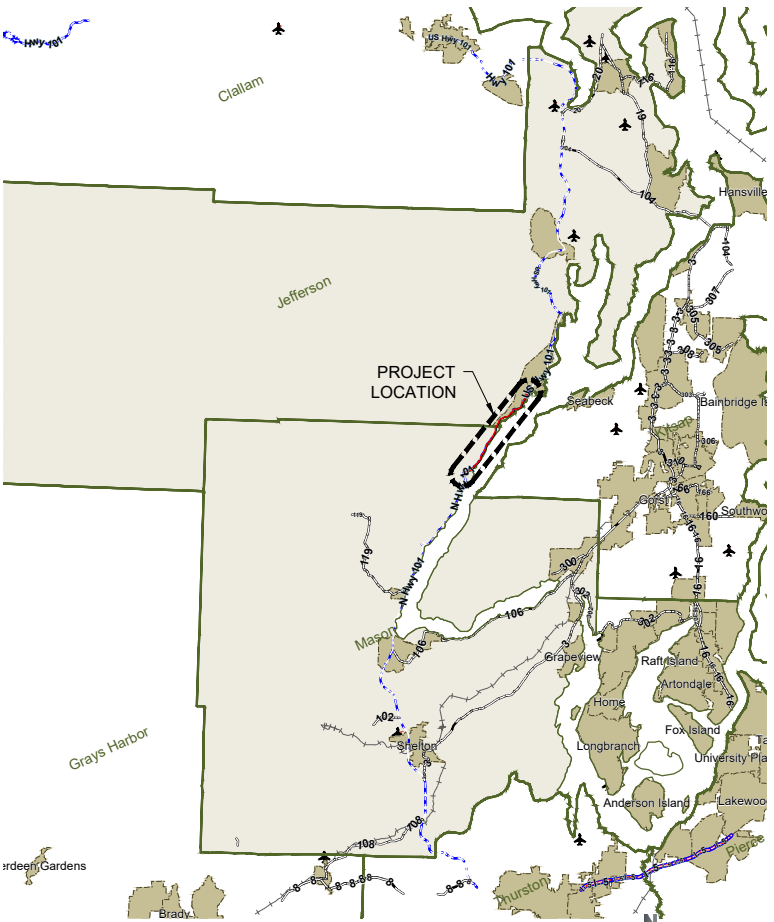
ISSUED FOR  
BID  
NOT RELEASED  
FOR CONSTRUCTION



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 |
|                                                                |                                                                                     |                                                                                     |     |                |                  |        |     |
|                                                                |                                                                                     |                                                                                     |     |                |                  |        |     |
|                                                                |                                                                                     |                                                                                     |     |                |                  |        |     |
| ELDON-DUCKABUSH RECONDUCTOR<br>DISTRIBUTION LINE DRAWING INDEX |                                                                                     |                                                                                     |     |                |                  |        |     |
| COVER SHEET & INDEX                                            | DESCRIPTION                                                                         |                                                                                     | REV | DATE           | REVISION PURPOSE |        |     |
| EDR.D00.01                                                     | COVER SHEET                                                                         |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D00.02                                                     | DRAWING INDEX                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D00.03                                                     | DRAWING INDEX                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D00.04                                                     | CONSTRUCTION SPECIFICATIONS                                                         |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
|                                                                |                                                                                     |                                                                                     |     |                |                  |        |     |
| PLAN & PROFILES                                                | DESCRIPTION                                                                         | STATION                                                                             | REV | DATE           | REVISION PURPOSE |        |     |
| EDR.D02.01                                                     | PLAN AND PROFILE                                                                    | EDR-83 TO EDR-95                                                                    | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.02                                                     | PLAN AND PROFILE                                                                    | EDR-95 TO EDR-107                                                                   | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.03                                                     | PLAN AND PROFILE                                                                    | EDR-107 TO EDR-117                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.04                                                     | PLAN AND PROFILE                                                                    | EDR-117 TO EDR-125                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.05                                                     | PLAN AND PROFILE                                                                    | EDR-125 TO EDR-135                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.06                                                     | PLAN AND PROFILE                                                                    | EDR-135 TO EDR-144                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.07                                                     | PLAN AND PROFILE                                                                    | EDR-144 TO EDR-152                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.08                                                     | PLAN AND PROFILE                                                                    | EDR-152 TO EDR-164                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.09                                                     | PLAN AND PROFILE                                                                    | EDR-164 TO EDR-174                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D02.10                                                     | PLAN AND PROFILE                                                                    | EDR-174 TO EDR-184                                                                  | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
|                                                                |                                                                                     |                                                                                     |     |                |                  |        |     |
| STAKING SHEETS                                                 | DESCRIPTION                                                                         |                                                                                     | REV | DATE           | REVISION PURPOSE |        |     |
| EDR.D03.01                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.02                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.03                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.04                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.05                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.06                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.07                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.08                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.09                                                     | STAKING SHEET                                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D03.10                                                     | STAKING SHEET SUMMARY                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.01                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.02                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.03                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.04                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.05                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.06                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.07                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.08                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.09                                                     | REMOVAL STAKING SHEET                                                               |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.R03.10                                                     | REMOVAL STAKING SHEET SUMMARY                                                       |                                                                                     | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
|                                                                |                                                                                     |                                                                                     |     |                |                  |        |     |
| STRUCTURE DRAWINGS                                             | DESCRIPTION                                                                         | TYPE                                                                                | REV | DATE           | REVISION PURPOSE |        |     |
| EDR.D04.01                                                     | 3 PHASE TWIGGY- 0°-2°                                                               | CAL 1                                                                               | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.02                                                     | 3 PHASE TWIGGY- 2°-5°                                                               | CAL 2                                                                               | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.03                                                     | TAP GUIDE 1 PHASE PRIMARY ASSEMBLY                                                  | A5.3NG                                                                              | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.04                                                     | 8' PRE-ASSEMBLED DOUBLE DEADEND                                                     | C6.21F                                                                              | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.05                                                     | SUSPENSION ANGLE (SMALL ANGLE)                                                      | C3.1L                                                                               | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.06                                                     | SUSPENSION ANGLE (LARGE ANGLE)                                                      | C3.1                                                                                | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.07                                                     | DEADEND ANGLE                                                                       | C4.1G                                                                               | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.08                                                     | VOLTAGE REGULATORS, PLATFORM MOUNTED, 3 SINGLE PHASE                                | Y1.3                                                                                | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.09                                                     | 3 PHASE ALLEY TWIGGY 6° TO 30°                                                      | CAL 6                                                                               | A   | 9/4/2026       | ISSUED FOR BID   |        |     |
| EDR.D04.10                                                     | TANGENT 3 PHASE PRIMARY ASSEMBLY                                                    | C1.13F                                                                              | A   | 9/4/2026       | ISSUED FOR BID   |        |     |

| ANCILLARY DRAWINGS | DESCRIPTION                                                            | TYPE       | REV | DATE     | REVISION PURPOSE |
|--------------------|------------------------------------------------------------------------|------------|-----|----------|------------------|
| EDR.D05.01         | DOWN GUY                                                               | E1.1       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.02         | SPAN GUYS                                                              | E1.4       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.03         | DOUBLE HELIX SCREW ANCHORS                                             | F2.8       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.04         | SINGLE PHASE CONVENTIONAL TRANSFORMER                                  | G1.4-1.5   | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.05         | GROUNDING                                                              | H1.1       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.06         | CUTOUT - SINGLE PHASE                                                  | S1.1       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.07         | SECONDARY ASSEMBLIES, LARGE ANGLE                                      | J2.1, J2.2 | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.08         | JUMPER SUPPORTING POST INSULATOR ASSEMBLY                              | MS3.1/4.1  | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.09         | SINGLE PHASE PRIMARY RISER                                             | UA1.2      | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.10         | SECONDARY OVERHEAD TO UNDERGROUND RISER ASSEMBLY W/ SECONDARY PEDASTAL | UK2.1      | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.11         | 1 PHASE JUNCTION BOX, 4 WAY                                            | US1.PJ     | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.12         | CUTOUTS (3 SINGLE PHASE)                                               | S1.3       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.13         | 3 PHASE SWITCH, UNDERSLUNG                                             | S2.32      | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.14         | 3 PHASE PRIMARY RISER                                                  | UC2.2      | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.15         | THREE 1 PHASE DIELECTRIC RECLOSERS                                     | R3.3       | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.16         | TANGENT FIBER/ADSS ASSEMBLY                                            | M.FIBER    | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D05.17         | SECONDARY PEDASTAL, UNDERGROUND CABLE                                  | UK5        | A   | 9/4/2026 | ISSUED FOR BID   |
|                    |                                                                        |            |     |          |                  |
| FOUNDATIONS        | DESCRIPTION                                                            | TYPE       | REV | DATE     | REVISION PURPOSE |
| EDR.D07.01         | POLE HOLE DEPTH AND BACKFILL REQUIREMENTS                              | TM-10-MA01 | A   | 9/4/2026 | ISSUED FOR BID   |
|                    |                                                                        |            |     |          |                  |
| MATERIAL LIST      | DESCRIPTION                                                            |            | REV | DATE     | REVISION PURPOSE |
| EDR.D09.01         | MATERIAL LIST                                                          |            | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D09.02         | MATERIAL LIST                                                          |            | A   | 9/4/2026 | ISSUED FOR BID   |
| EDR.D09.03         | MATERIAL LIST                                                          |            | A   | 9/4/2026 | 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 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 ENERGIZED 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><b>TOOTH</b><br>& ASSOCIATES<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     | PROJECT:                    | ELDON-DUCKABUSH<br>RECONDUCTOR            |                         |
| 09/04/2026 | ISSUED FOR BID | A |                                                                                                                                                                                                                                                                                                                         | CRD. BY:<br>EAN     | LOCATION:                   | MASON AND JEFFERSON COUNTIES, WA          |                         |
|            |                |   |                                                                                                                                                                                                                                                                                                                         | APPD. BY:<br>WFW    | CLIENT:                     | MASON COUNTY PUD 1<br>SHELTON, WASHINGTON |                         |
|            |                |   |                                                                                                                                                                                                                                                                                                                         | DATE:<br>06/16/2026 |                             |                                           |                         |
|            |                |   |                                                                                                                                                                                                                                                                                                                         | TITLE:              | CONSTRUCTION SPECIFICATIONS |                                           | SHEET NO.<br>EDR.D00.04 |
|            |                |   |                                                                                                                                                                                                                                                                                                                         |                     |                             |                                           |                         |