



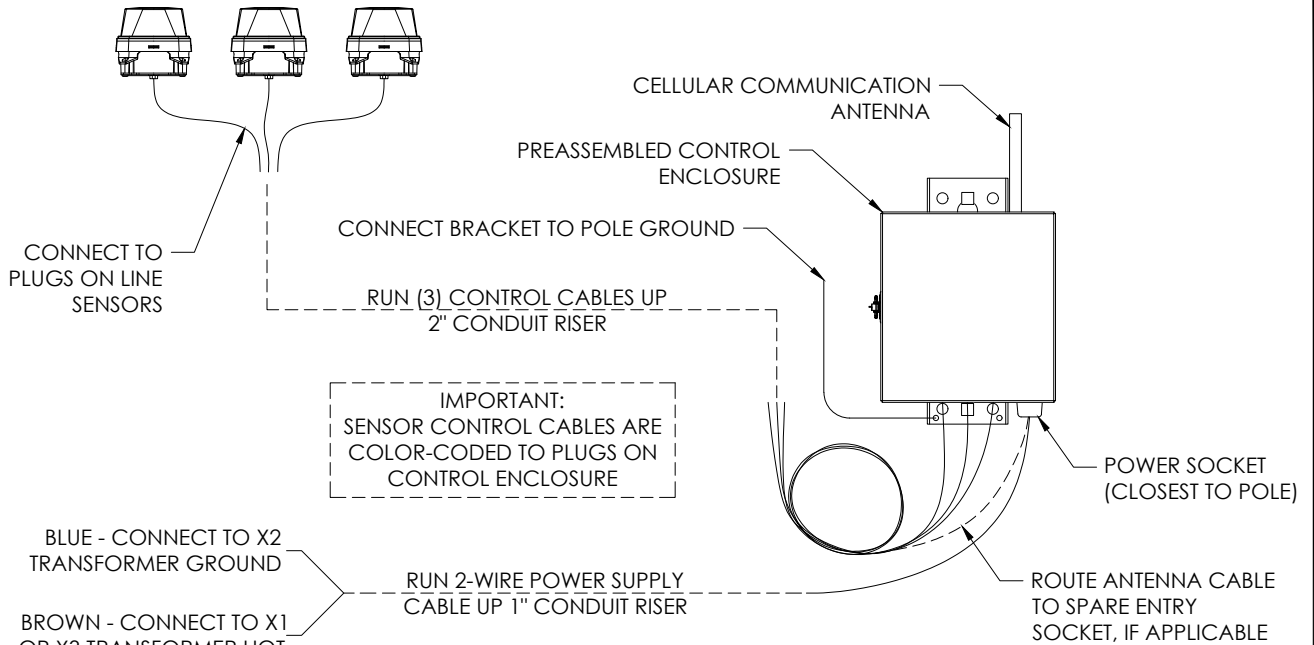


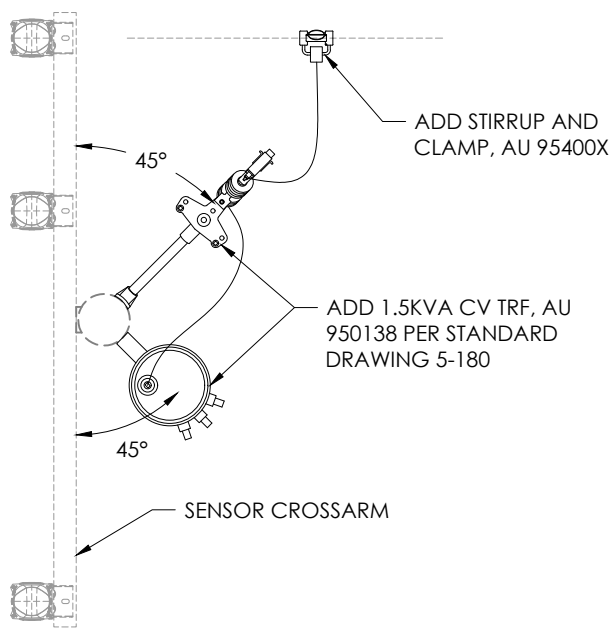
Notes:

1. Adjust bolt lengths as necessary.
2. All 3 sensors must be set at 2' from the phase conductors (+/- 1").

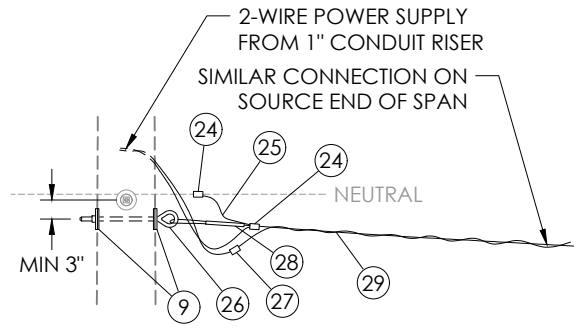
 <p>STANDARDS</p> <p>PUBLIC UTILITY DISTRICT NO. 1 Cowlitz County, Washington 961 12th Avenue Longview, Washington</p>	<p>CONSTRUCTION STANDARDS</p> <p>EARLY FAULT DETECTION STANDARDS</p> <p>8FT WD ARM BOA INSTALLATION</p>		<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>05/05/25</td> <td>Initial release</td> </tr> <tr> <td>1</td> <td>05/20/25</td> <td>Move sensor arm down 2in, update conduit qty.</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	0	05/05/25	Initial release	1	05/20/25	Move sensor arm down 2in, update conduit qty.
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<table border="1"> <tr> <td>Designed D. Tuominen</td> <td>Checked D. Thomas T. Walling</td> <td>Standards Approved </td> <td>Std/Dwg No. 11-200 (1 of 3)</td> </tr> </table>	Designed D. Tuominen	Checked D. Thomas T. Walling	Standards Approved 	Std/Dwg No. 11-200 (1 of 3)								
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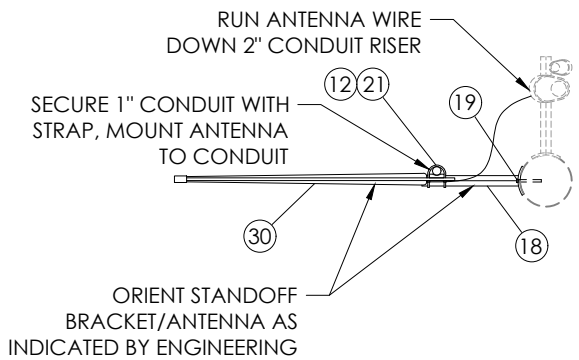
CONNECTION DETAIL - CONTROL CABLE AND BOX




NEW TRANSFORMER OPTION - TOP VIEW



OVERHEAD SECONDARY OPTION - SIDE VIEW
(SEE MATERIALS ON SHEET 3)



DIPOLE ARRAY ANTENNA OPTION - TOP VIEW
(SEE MATERIALS ON SHEET 3)

STANDARDS		CONSTRUCTION STANDARDS		REV	DATE	DESCRIPTION
 <p>PUBLIC UTILITY DISTRICT NO. 1 Cowlitz County, Washington 961 12th Avenue Longview, Washington</p>	<p>EARLY FAULT DETECTION STANDARDS 8FT WD ARM BOA INSTALLATION</p>		0	05/05/25	Initial release	
			1	05/20/25	Move sensor arm down 2in, update conduit qty.	
			<p>Designed: D. Tuominen</p> <p>Checked: D. Thomas, T. Walling</p> <p>Standards Approved: <i>[Signature]</i></p>		Std/Dwg No.	11-200 (2 of 3)



ITEM	QTY	ITEM #	MATERIAL DESCRIPTION	AU #
1	3	MTR0430	Fault detection line sensor, standard bracket	991-120 or 991-121
2	1	MTR04XX	Fault detection control box, with bracket	
3	1	105-008	Crossarm, wood, 8', 3-1/2" x 4-1/2", light duty	
4	1	185-110	Gain, braceless crossarm mount	
5	3	120-426	Bolt, machine, 5/8" x 6", with square nut	
6	1	120-430	Bolt, machine, 5/8" x 10", with square nut	
7	2	120-432	Bolt, machine, 5/8" x 12", with square nut	
8	1	120-434	Bolt, machine, 5/8" x 14", with square nut	
9	4	350-110	Washer, square curved, 3" x 3", 11/16" hole	
10	4	350-210	Washer, square, 2-1/4" x 2-1/4", 11/16" hole	
11	20'	416-167	Conduit, 2" SCH 40 PVC	
12	10'	416-137	Conduit, 1" SCH 40 PVC	
13	5'	417-300	Conduit, 1" flexible, non-metallic	
14	1	402-137	Female adapter fitting, 1" PVC to 1" IPS	
15	2	417-310	Male straight fitting, 1" NM flex conduit	
16	1	410-115	Service entrance cap, 2" PVC	
17	1	410-110	Service entrance cap, 1" PVC	
18	3	585-145	Conduit standoff bracket, 15"	
19	6	284-098	Lag bolt, 3/8" x 4"	
20	3	585-167	Conduit strap, 2"	
21	2	585-155	Conduit strap, 1"	
22	1	416-130	Moulding, pole ground, gray, 1/2" x 8'	
23	Varies	284-052	Staple, 1/2" x 2", galvanized, pole ground	
24	Varies	155-1XX	Connector, ground clamp, vise type, size varies	
25	2'	606-160	Wire, No. 4 sol Cu, bare, soft drawn	

OVERHEAD SECONDARY OPTION - ADDITIONAL MATERIALS

ITEM	QTY	ITEM #	MATERIAL DESCRIPTION	AU #
9	4	350-110	Washer, square curved, 3" x 3", 11/16" hole	980-300
24	3	155-1XX	Connector, ground clamp, vise type, size varies	
25	2'	606-160	Wire, No. 4 sol Cu, bare, soft drawn	
26	2	120-312	Bolt, oval eye, 5/8" x 12", with square nut	
27	2	155-682	Connector, insulated service, compression, No. 6 - No. 10, blue - brown	
28	2	140-658	Clamp, service wedge, flex cable, No. 6 - No. 2	
29	As req'd	599-050	Wire, No. 6 str Al, covered, duplex	900-020

DIPOLE ARRAY ANTENNA OPTION - ADDITIONAL MATERIALS

ITEM	QTY	ITEM #	MATERIAL DESCRIPTION	AU #
12	1'	416-137	Conduit, 1" SCH 40 PVC	991-130
18	1	585-145	Conduit standoff bracket, 15"	
19	2	284-098	Lag bolt, 3/8" x 4"	
21	1	585-155	Conduit strap, 1"	
30	1	MTR0440	Antenna, directional wideband, conduit mount, for INDT GEN unit	

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	EARLY FAULT DETECTION STANDARDS		8FT WD ARM BOA INSTALLATION		0	05/05/25	Initial release	
	Designed D. Tuominen		Checked D. Thomas T. Walling		Standards Approved 		1	05/20/25
					Std/Dwg No.		11-200 (3 of 3)	