

REIMBURSEMENT AGREEMENT

This Reimbursement Agreement ("Agreement") is made and entered into and effective the 4th day of March, 2016, by and between Pedernales Electric Cooperative, Inc. (hereinafter referred to as "Utility"), and Williamson County, Texas, (hereinafter referred to as "County").

WITNESSETH:

WHEREAS, Utility is the owner of certain Three-phase and Single-phase overhead primary power lines and associated service lines (herein called Facilities).

WHEREAS, County desires to construct proposed CR 258: From Sunset Ridge to Reagan Blvd. (hereinafter called "Project") and make improvements to Project as shown on plans submitted to Utility;

WHEREAS, to accommodate the Project, County desires Utility to perform certain facility modification/relocation work herein referred to as the "Work" and described as follows:

- Pedernales Electric Cooperative's relocation consist of: Relocate approximately 0.50 miles of Three-phase and 0.35 miles of Single-phase Overhead power lines and associated Member service lines.
- County will reimburse Utility for Engineering Services, Inspection Services and Internal cost only.
- Upon completion of Project, Contractor will provide an as-built drawing of the relocation to the Utility and County.

WHEREAS, Utility, under the terms hereinafter stated, has evaluated the Project and is willing to perform Work to its Facilities to accommodate the Project, provided the County reimburses Utility for 100% of its eligible costs for labor and materials to do the Work.

NOW, THEREFORE, in consideration of the promises and mutual covenants herein contained, Utility agrees to perform the Work and permit the Project subject to the following terms and provisions:

1. County agrees that the description of the Work listed above contains a complete representation of the Work requested of Utility to accommodate the Project.
2. County shall, at its own expense, inspect the Work by Utility hereunder, to assure itself that the Work is being performed in compliance with the standards of County.
3. Though this agreement is based on the proposed "Good Faith Estimate" herein referred to as the "Estimate" listed below: (See Attachment "A" for detailed estimate)

Estimated 50 new Power Poles and removal of 37 Power Poles along with apparatus defined as Work = \$314,471.81

County agrees to bear 100% of the eligible costs incurred by Utility relating to the Work. Final eligible costs may be more or less than the Estimate, which shall not be construed as a limitation of costs for such Work. County recognizes that Utility may use one or more contractors to perform the Work.

an invoice of the same. The final eligible cost may be greater or less than the Estimate and County shall be liable to Utility for 100% of the eligible final cost. After receipt and approval of invoice, County shall pay the full amount within 30 days.

5. County shall perform all operations and construction activities below or adjacent to the Facilities in a workmanlike and safe manner and in conformance with all applicable industry and governmental standards and conditions that may be imposed by Utility from time to time. No construction activity by County shall be performed under, across, or adjacent to the Facilities until the Work of Utility has been completed.
6. Notice shall be given to Utility by County, at least 48 hours in advance of commencement of any construction activity on or adjacent to the Facilities, excepting only cases of emergency. Said notice shall be given to Texas One-Call: 1-800-245-4545. In the event County breaches any of the terms, covenants or provisions of this Agreement and Utility commences litigation to enforce any provisions of this Agreement, the cost of attorneys' fees, interest and the attendant expenses will be payable to Utility by County upon demand.
7. To the fullest extent permitted by law, the County shall indemnify, save, hold harmless, and at Utility's option, defend Utility and its affiliated companies and their directors, officers, employees and agents from any and all claims, demands, cost (including reasonable attorney and expert witness fees and court costs), expenses, losses, causes of action (whether at law or in equity), fines, civil penalties, and administrative proceedings for injury or death to persons or damage or loss to property or other business losses, including those made or incurred by Utility or its directors, officers, employees, or agents and including environmental damage in any way arising from or connected with the existence, construction, operation, maintenance, removal or other operations arising out of the Work as described in this Agreement and the construction, operation and/or use of the Project by County, except those arising from Utility's sole negligence.
8. This Agreement supersedes every antecedent or concurrent oral and/or written declaration and/or understanding pertaining to the Work or construction activity by and between Utility and County.
9. As soon as possible after the document is prepared, Utility and County shall sign a Utility Joint Use Agreement and make a part hereof.

Unless an item below is stricken and initialed by the County and Utility, this agreement in its entirety consists of the following:

1. Utility Agreement - Wilco –U-35 – 100% County – Off System
2. Plans, Specification, and Estimated Costs (Attachment “A”)
3. Utility’s Schedule of Work and Estimated Date of Completion (Attachment “B”)
4. Eligibility Ratio (Attachment “C”)
5. Betterment Calculation and Estimates (Attachment “D”)

7. Wilco-U-80A – Joint Use Agreement (Attachment “F”)

IN WITNESS WHEREOF, we have hereunto set our hands on the day and year below.

By: Pedernales Electric Cooperative
Name of Utility

Authorized Signature

By: _____
Authorized Signature

Dan A. Gattis
Print or Type Name

Joe Lockhart
Print or Type Name

Title: Williamson County Judge

Title: District Operations Director

Date: _____

Date: March 8, 2016

7. Wilco-U-80A - Joint Use Agreement (Attachment "F")

IN WITNESS WHEREOF, we have hereunto set our hands on the day and year below.

By: Pedernales Electric Cooperative
Name of Utility

Authorized Signature

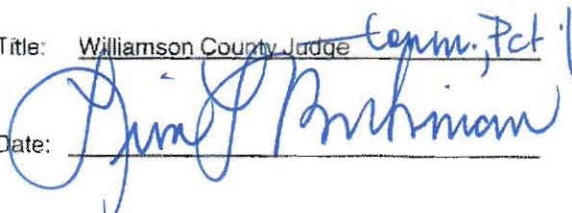
By: _____
Authorized Signature

Dan A. Gattis
Print or Type Name

Joe Lockhart
Print or Type Name

Title: District Operations Director

Date: March 8, 2016

Title: Williamson County Judge Comm. Pct. 1

Date: _____

Attachment A

Plans, Specifications, and Estimated Costs

CR 258 Estimated Reimbursable Costs

M&S Engineering Costs	Rate	Hours/Miles	Totals
Senior Tech I	\$85.00	20.75	\$1,763.75
Senior Tech II	\$95.00	1090.75	\$103,621.25
Senior Tech III	\$105.00	40.00	\$4,200.00
Tech Specialist	\$140.00	18.50	\$2,590.00
Senior Engineer II	\$145.00	62.50	\$9,062.50
Administrative	\$45.00	3.50	\$157.50
M&S Power Services			\$15,952.78
Mileage (2015 Standards)	\$0.58	7451.40	\$4,321.81
Mileage (Adjusted 2016 Standards)	\$0.54	3200.00	\$1,728.00
Software			\$350.00
			\$143,747.59
 Total Estimated Engineering Costs	 \$143,747.59		
Total Estimated Material Costs	\$63,477.70		
Total Estimated Construction Labor Costs	\$107,246.52		
 Total Estimated Cost of Project	 \$314,471.81		

All estimated costs listed above are in accordance with Attachment "H" Eligibility Ratio Summary.
If there is a discrepancy with Attachment "H", the above costs would need to be recalculated.



Pedernales Electric Cooperative

QUICK ESTIMATE REPORT

Detail

Location	Function	Qty	Unit	Crew	Material Cost
1	INSTALL	1	C1-3	Same	\$336.54
1	INSTALL	1	M2-2	Same	\$105.13
1	INSTALL	3	M5-23.7.1	Same	\$51.00
1	INSTALL	1	M5-61.3	Same	\$201.18
1	INSTALL	1	P50-3	Same	\$561.66
2	INSTALL	4	M5-1	Same	\$25.44
2	INSTALL	19	O336 AAC	Same	\$10.36
2	INSTALL	58	O795 AAC	Same	\$69.07
2	INSTALL	1	A5-2A	Same	\$29.78
2	INSTALL	2	C7-7	Same	\$360.46
2	INSTALL	4	E1-2	Same	\$183.12
2	INSTALL	2	E1-3	Same	\$272.02
2	INSTALL	2	F1-3	Same	\$48.24
2	INSTALL	2	F1-4	Same	\$129.56
2	INSTALL	1	M2-2	Same	\$105.13
2	INSTALL	1	M42-11	Same	\$5.40
2	INSTALL	1	M42-11.1	Same	\$15.02
2	INSTALL	2	M42-13	Same	\$16.44
2	INSTALL	6	M42-17	Same	\$106.14
2	INSTALL	1	M5-23.1.1	Same	\$14.86
2	INSTALL	2	M5-23.7.1	Same	\$34.00
2	INSTALL	3	M5-5	Same	\$59.94
2	INSTALL	1	M5-61.1	Same	\$67.06
2	INSTALL	1	P50-1	Same	\$705.92
3	INSTALL	1	M3-1	Same	\$68.82
3	INSTALL	1	A5-2	Same	\$23.42
3	INSTALL	1	C1-2	Same	\$163.90
3	INSTALL	1	E1-2	Same	\$45.78
3	INSTALL	1	F1-3	Same	\$24.12
3	INSTALL	1	M2-2	Same	\$105.13
3	INSTALL	2	M42-11	Same	\$10.80
3	INSTALL	1	M5-23.1.1	Same	\$14.86
3	INSTALL	1	M5-23.7.1	Same	\$17.00
3	INSTALL	1	M5-61.1	Same	\$67.06
3	INSTALL	1	P50-3	Same	\$561.66
3	INSTALL	123	O336 AAC	Same	\$66.16
3	INSTALL	368	O795 AAC	Same	\$441.09
4	INSTALL	1	G25DV	Same	\$1,116.86
4	INSTALL	1	C1-2	Same	\$163.90
4	INSTALL	1	G135	Same	\$74.90
4	INSTALL	1	M2-2	Same	\$105.13
4	INSTALL	1	M5-23.7.1	Same	\$17.00
4	INSTALL	1	P50-3	Same	\$561.66
4	INSTALL	225	O336 AAC	Same	\$121.58
4	INSTALL	675	O795 AAC	Same	\$810.50
5	INSTALL	1	C1-2	Same	\$163.90
5	INSTALL	1	M2-2	Same	\$105.13
5	INSTALL	3	M5-23.7.1	Same	\$51.00
5	INSTALL	1	M5-61.3	Same	\$201.18
5	INSTALL	1	P50-3	Same	\$561.66
5	INSTALL	141	O336 AAC	Same	\$76.07

Location	Function	Qty	Unit	Crew	Material Cost
5	INSTALL	423	O795 AAC	Same	\$507.13
6	INSTALL	135	O336 AAC	Same	\$72.89
6	INSTALL	405	O795 AAC	Same	\$485.90
6	INSTALL	1	C1-2	Same	\$163.90
6	INSTALL	1	M2-2	Same	\$105.13
6	INSTALL	1	P50-3	Same	\$561.66
7	INSTALL	1	A5-2	Same	\$23.42
7	INSTALL	1	A5-2A	Same	\$29.78
7	INSTALL	1	C1-3	Same	\$336.54
7	INSTALL	1	E1-2	Same	\$45.78
7	INSTALL	1	F1-3	Same	\$24.12
7	INSTALL	1	G135	Same	\$74.90
7	INSTALL	1	M2-2	Same	\$105.13
7	INSTALL	4	M42-11	Same	\$21.60
7	INSTALL	1	M5-23.1.1	Same	\$14.86
7	INSTALL	3	M5-23.7.1	Same	\$51.00
7	INSTALL	1	M5-61.1	Same	\$67.06
7	INSTALL	1	P50-1	Same	\$705.92
7	INSTALL	208	O336 AAC	Same	\$112.23
7	INSTALL	623	O795 AAC	Same	\$748.19
7	INSTALL	1	G25DV	Same	\$1,116.86
7	INSTALL	116	O1-0 TP	Same	\$88.15
7	INSTALL	1	M3-1	Same	\$68.82
8	INSTALL	156	O336 AAC	Same	\$84.39
8	INSTALL	469	O795 AAC	Same	\$562.58
8	INSTALL	1	C1-3	Same	\$336.54
8	INSTALL	1	M2-2	Same	\$105.13
8	INSTALL	3	M5-23.7.1	Same	\$51.00
8	INSTALL	1	M5-61.3	Same	\$201.18
8	INSTALL	1	P50-3	Same	\$561.66
9	INSTALL	1	C8-1	Same	\$297.95
9	INSTALL	2	M42-13	Same	\$16.44
9	INSTALL	6	M42-17	Same	\$106.14
9	INSTALL	140	O336 AAC	Same	\$75.34
9	INSTALL	419	O795 AAC	Same	\$502.26
13	INSTALL	80	O1-0 TP	Same	\$60.67
20	INSTALL	1	A1	Same	\$19.49
20	INSTALL	1	M2-2	Same	\$105.13
20	INSTALL	1	P45-4	Same	\$366.62
20	INSTALL	36	O1-0 ACSR	Same	\$7.64
20	INSTALL	36	O1-0 ACSR	Same	\$7.64
20	INSTALL	195	O1-0 ACSR	Same	\$40.97
20	INSTALL	195	O1-0 ACSR	Same	\$40.97
21	INSTALL	209	O1-0 ACSR	Same	\$43.83
21	INSTALL	209	O1-0 ACSR	Same	\$43.83
21	INSTALL	1	A1	Same	\$19.49
21	INSTALL	1	A5-1	Same	\$17.96
21	INSTALL	2	M42-11	Same	\$10.80
21	INSTALL	1	M5-23.1.1	Same	\$14.86
22	INSTALL	1	A6	Same	\$23.20
22	INSTALL	1	E1-2	Same	\$45.78
22	INSTALL	1	F1-3	Same	\$24.12
22	INSTALL	1	M2-2	Same	\$105.13
22	INSTALL	4	M42-11	Same	\$21.60
22	INSTALL	1	M5-2	Same	\$18.88
22	INSTALL	1	P40-5	Same	\$254.72
23	INSTALL	119	O4 ACSR	Same	\$11.90
23	INSTALL	119	O4 ACSR	Same	\$11.90
23	INSTALL	154	O1-0 ACSR	Same	\$32.33
23	INSTALL	154	O1-0 ACSR	Same	\$32.33
23	INSTALL	1	A1	Same	\$19.49
23	INSTALL	1	A5-1	Same	\$17.96

Location	Function	Qty	Unit	Crew	Material Cost
23	INSTALL	1	M2-2	Same	\$105.13
23	INSTALL	2	M42-11	Same	\$10.80
23	INSTALL	1	M5-23.1.1	Same	\$14.86
23	INSTALL	1	P45-4	Same	\$366.62
24	INSTALL	152	O1-0 ACSR	Same	\$31.95
24	INSTALL	152	O1-0 ACSR	Same	\$31.95
24	INSTALL	1	A1	Same	\$19.49
24	INSTALL	1	M2-2	Same	\$105.13
24	INSTALL	1	M5-23.1.1	Same	\$14.86
24	INSTALL	1	M5-61.1	Same	\$67.06
24	INSTALL	1	P45-4	Same	\$366.62
25	INSTALL	1	A1	Same	\$19.49
25	INSTALL	1	A5-1	Same	\$17.96
25	INSTALL	1	M2-2	Same	\$105.13
25	INSTALL	2	M42-11	Same	\$10.80
25	INSTALL	1	M5-23.1.1	Same	\$14.86
25	INSTALL	1	M5-61.1	Same	\$67.06
25	INSTALL	1	P50-3	Same	\$561.66
25	INSTALL	291	O1-0 ACSR	Same	\$61.10
25	INSTALL	291	O1-0 ACSR	Same	\$61.10
26	INSTALL	1	A6	Same	\$23.20
26	INSTALL	1	E1-2	Same	\$45.78
26	INSTALL	1	F1-3	Same	\$24.12
26	INSTALL	1	M2-2	Same	\$105.13
26	INSTALL	4	M42-11	Same	\$21.60
26	INSTALL	1	M5-2	Same	\$18.88
26	INSTALL	1	P40-5	Same	\$254.72
27	INSTALL	307	O1-0 ACSR	Same	\$64.40
27	INSTALL	307	O1-0 ACSR	Same	\$64.40
27	INSTALL	1	A1	Same	\$19.49
27	INSTALL	1	M2-2	Same	\$105.13
27	INSTALL	1	P45-4	Same	\$366.62
28	INSTALL	1	A4	Same	\$23.20
28	INSTALL	1	E1-2	Same	\$45.78
28	INSTALL	1	F1-3	Same	\$24.12
28	INSTALL	1	M2-2	Same	\$105.13
28	INSTALL	3	M42-11	Same	\$16.20
28	INSTALL	1	M42-11.1	Same	\$15.02
28	INSTALL	1	M5-23.1.1	Same	\$14.86
28	INSTALL	1	M5-4	Same	\$18.51
28	INSTALL	1	M5-61.1	Same	\$67.06
28	INSTALL	1	P45-4	Same	\$366.62
28	INSTALL	183	O1-0 ACSR	Same	\$38.35
28	INSTALL	183	O1-0 ACSR	Same	\$38.35
29	INSTALL	86	O1-0 ACSR	Same	\$18.12
29	INSTALL	86	O1-0 ACSR	Same	\$18.12
29	INSTALL	1	A5	Same	\$11.60
29	INSTALL	1	M42-11	Same	\$5.40
29	INSTALL	1	M42-11.1	Same	\$15.02
30	INSTALL	1	G10DV	Same	\$812.50
30	INSTALL	1	A1-1	Same	\$44.69
30	INSTALL	1	G135	Same	\$74.90
30	INSTALL	1	M2-2	Same	\$105.13
30	INSTALL	1	P45-4	Same	\$366.62
30	INSTALL	1	ZM5-15B	Same	\$24.84
31	INSTALL	0	O4 ACSR	Same	\$0.01
31	INSTALL	0	O4 ACSR	Same	\$0.01
45	INSTALL	1	C8	Same	\$217.58
45	INSTALL	4	E1-2	Same	\$183.12
45	INSTALL	2	E1-3	Same	\$272.02
45	INSTALL	2	F1-4	Same	\$129.56
48	INSTALL	1	F1-4	Same	\$64.78

Location	Function	Qty	Unit	Crew	Material Cost
49	INSTALL	1	F1-4	Same	\$64.78
50	INSTALL	2	A5-3N	Same	\$23.20
50	INSTALL	1	A5-4	Same	\$30.48
50	INSTALL	1	C7-7	Same	\$180.23
50	INSTALL	2	E1-2	Same	\$91.56
50	INSTALL	1	E1-3	Same	\$136.01
50	INSTALL	1	F1-3	Same	\$24.12
50	INSTALL	1	F1-4	Same	\$64.78
50	INSTALL	1	M2-2	Same	\$105.13
50	INSTALL	2	M42-13	Same	\$16.44
50	INSTALL	6	M42-17	Same	\$106.14
50	INSTALL	2	M5-5	Same	\$39.96
50	INSTALL	1	P50-1	Same	\$705.92
51	INSTALL	1	M3-1.1	Same	\$93.34
51	INSTALL	1	M3-1.1	Same	\$93.34
51	INSTALL	1	A5-2	Same	\$23.42
51	INSTALL	2	A5-3N	Same	\$23.20
51	INSTALL	1	A5-4	Same	\$30.48
51	INSTALL	2	C7-7	Same	\$360.46
51	INSTALL	2	E1-2	Same	\$91.56
51	INSTALL	1	E1-3	Same	\$136.01
51	INSTALL	1	F1-3	Same	\$24.12
51	INSTALL	1	F1-4	Same	\$64.78
51	INSTALL	1	M2-2	Same	\$105.13
51	INSTALL	6	M42-11	Same	\$32.40
51	INSTALL	2	M42-13	Same	\$16.44
51	INSTALL	6	M42-17	Same	\$106.14
51	INSTALL	4	M5-23.7.1	Same	\$68.00
51	INSTALL	2	M5-5	Same	\$39.96
51	INSTALL	1	P50-1	Same	\$705.92
51	INSTALL	1	M3-1.1	Same	\$93.34
52	INSTALL	1	M3-1	Same	\$68.82
52	INSTALL	1	A6	Same	\$23.20
52	INSTALL	1	E1-2	Same	\$45.78
52	INSTALL	1	F1-3	Same	\$24.12
52	INSTALL	1	M2-2	Same	\$105.13
52	INSTALL	3	M42-11	Same	\$16.20
52	INSTALL	1	M42-11.1	Same	\$15.02
52	INSTALL	1	M5-23.1.1	Same	\$14.86
52	INSTALL	1	M5-61.1	Same	\$67.06
52	INSTALL	1	P40-5	Same	\$254.72
52	INSTALL	1	ZM5-15B	Same	\$24.84
53	INSTALL	1	M3-1	Same	\$68.82
53	INSTALL	1	A5-2	Same	\$23.42
53	INSTALL	1	M2-2	Same	\$105.13
53	INSTALL	2	M42-11	Same	\$10.80
53	INSTALL	1	M5-23.1.1	Same	\$14.86
53	INSTALL	1	M5-23.7.1	Same	\$17.00
53	INSTALL	1	M5-61.1	Same	\$67.06
53	INSTALL	1	P50-1	Same	\$705.92
53	INSTALL	1	ZC1-1B	Same	\$348.91
53	INSTALL	1	ZM5-15B	Same	\$24.84
53	INSTALL	170	O336 AAC	Same	\$91.80
53	INSTALL	510	O795 AAC	Same	\$612.00
54	INSTALL	1	M2-2	Same	\$105.13
54	INSTALL	1	P50-3	Same	\$561.66
54	INSTALL	1	ZC1-1B	Same	\$348.91
54	INSTALL	186	O336 AAC	Same	\$100.44
54	INSTALL	558	O795 AAC	Same	\$669.60
55	INSTALL	170	O4 ACSR	Same	\$17.01
55	INSTALL	170	O4 ACSR	Same	\$17.01
55	INSTALL	1	A6	Same	\$23.20

Location	Function	Qty	Unit	Crew	Material Cost
55	INSTALL	1	E1-2	Same	\$45.78
55	INSTALL	1	F1-3	Same	\$24.12
55	INSTALL	1	M2-2	Same	\$105.13
55	INSTALL	4	M42-11	Same	\$21.60
55	INSTALL	1	M5-2	Same	\$18.88
55	INSTALL	1	P45-3	Same	\$447.02
56	INSTALL	1	G135	Same	\$74.90
56	INSTALL	1	M2-2	Same	\$105.13
56	INSTALL	1	P50-3	Same	\$561.66
56	INSTALL	1	ZC1-1B	Same	\$348.91
56	INSTALL	1	ZM5-15B	Same	\$24.84
56	INSTALL	186	O336 AAC	Same	\$100.44
56	INSTALL	558	O795 AAC	Same	\$669.60
57	INSTALL	235	O336 AAC	Same	\$126.65
57	INSTALL	704	O795 AAC	Same	\$844.34
57	INSTALL	1	A5-3	Same	\$11.60
57	INSTALL	1	C7-7	Same	\$180.23
57	INSTALL	2	E1-2	Same	\$91.56
57	INSTALL	1	E1-3	Same	\$136.01
57	INSTALL	1	F1-3	Same	\$24.12
57	INSTALL	1	F1-4	Same	\$64.78
57	INSTALL	1	M2-2	Same	\$105.13
57	INSTALL	1	M42-11	Same	\$5.40
57	INSTALL	1	M42-11.1	Same	\$15.02
57	INSTALL	2	M42-13	Same	\$16.44
57	INSTALL	6	M42-17	Same	\$106.14
57	INSTALL	1	M5-23.7.1	Same	\$17.00
57	INSTALL	1	M5-5	Same	\$19.98
57	INSTALL	1	P55-H6	Same	\$2,700.00
57	INSTALL	1	ZC7B	Same	\$137.97
58	INSTALL	1	A5-3	Same	\$11.60
58	INSTALL	2	C7-7	Same	\$360.46
58	INSTALL	1	M2-1	Same	\$9.93
58	INSTALL	2	M42-11	Same	\$10.80
58	INSTALL	2	M42-13	Same	\$16.44
58	INSTALL	6	M42-17	Same	\$106.14
58	INSTALL	1	M5-23.1.1	Same	\$14.86
58	INSTALL	1	M5-23.7.1	Same	\$17.00
58	INSTALL	2	M5-5	Same	\$39.96
58	INSTALL	1	M5-61.1	Same	\$67.06
58	INSTALL	1	P55C	Same	\$4,113.42
58	INSTALL	114	O336 AAC	Same	\$61.78
58	INSTALL	343	O795 AAC	Same	\$411.89
58	INSTALL	1	M3-1	Same	\$68.82
58	INSTALL	65	O4 ACSR	Same	\$6.55
58	INSTALL	65	O4 ACSR	Same	\$6.55
59	INSTALL	187	O4 ACSR	Same	\$18.70
59	INSTALL	187	O4 ACSR	Same	\$18.70
59	INSTALL	1	A4	Same	\$23.20
59	INSTALL	1	M2-2	Same	\$105.13
59	INSTALL	4	M42-11	Same	\$21.60
59	INSTALL	1	P45-3	Same	\$447.02
59	INSTALL	1	POLE SET	Same	\$70.22
60	INSTALL	2	M42-11	Same	\$10.80
60	INSTALL	1	M5-23.1.1	Same	\$14.86
61	INSTALL	9	O4 ACSR	Same	\$0.95
61	INSTALL	9	O4 ACSR	Same	\$0.95
61	INSTALL	114	O336 AAC	Same	\$61.36
61	INSTALL	341	O795 AAC	Same	\$409.10
61	INSTALL	1	M3-1	Same	\$68.82
61	INSTALL	1	A5-2	Same	\$23.42
61	INSTALL	1	C1-2	Same	\$163.90

Location	Function	Qty	Unit	Crew	Material Cost
61	INSTALL	1	M2-2	Same	\$105.13
61	INSTALL	2	M42-11	Same	\$10.80
61	INSTALL	1	M5-23.1.1	Same	\$14.86
61	INSTALL	4	M5-23.7.1	Same	\$68.00
61	INSTALL	1	M5-61.1	Same	\$67.06
61	INSTALL	1	M5-61.3	Same	\$201.18
61	INSTALL	1	P50-1	Same	\$705.92
61	INSTALL	1	POLE SET	Same	\$70.22
61	INSTALL	105	O4 ACSR	Same	\$10.51
61	INSTALL	105	O4 ACSR	Same	\$10.51
62	INSTALL	219	O336 AAC	Same	\$118.32
62	INSTALL	657	O795 AAC	Same	\$788.80
62	INSTALL	1	G25DV	Same	\$1,116.86
62	INSTALL	1	VG25	Same	\$843.33
62	INSTALL	1	C1-2	Same	\$163.90
62	INSTALL	1	G135	Same	\$74.90
62	INSTALL	1	M2-2	Same	\$105.13
62	INSTALL	1	M5-23.7.1	Same	\$17.00
62	INSTALL	1	P50-3	Same	\$561.66
63	INSTALL	2	A5-3N	Same	\$23.20
63	INSTALL	1	A5-4	Same	\$30.48
63	INSTALL	1	C7-7	Same	\$180.23
63	INSTALL	2	E1-2	Same	\$91.56
63	INSTALL	1	E1-3	Same	\$136.01
63	INSTALL	1	F1-3	Same	\$24.12
63	INSTALL	1	F1-4	Same	\$64.78
63	INSTALL	1	M2-2	Same	\$105.13
63	INSTALL	2	M42-13	Same	\$16.44
63	INSTALL	6	M42-17	Same	\$106.14
63	INSTALL	3	M5-23.7.1	Same	\$51.00
63	INSTALL	1	M5-61.3	Same	\$201.18
63	INSTALL	1	P50-1	Same	\$705.92
63	INSTALL	221	O336 AAC	Same	\$119.57
63	INSTALL	664	O795 AAC	Same	\$797.16
64	INSTALL	36	O336 AAC	Same	\$19.45
64	INSTALL	108	O795 AAC	Same	\$129.66
64	INSTALL	1	C1-3	Same	\$336.54
64	INSTALL	1	M2-2	Same	\$105.13
64	INSTALL	1	P50-1	Same	\$705.92
64	INSTALL	1	POLE SET	Same	\$70.22
65	INSTALL	70	O336 AAC	Same	\$37.70
65	INSTALL	209	O795 AAC	Same	\$251.36
65	INSTALL	1	A5-2	Same	\$23.42
65	INSTALL	1	C1-3	Same	\$336.54
65	INSTALL	1	M2-2	Same	\$105.13
65	INSTALL	1	M42-11	Same	\$5.40
65	INSTALL	1	M42-11.1	Same	\$15.02
65	INSTALL	1	M5-23.1.1	Same	\$14.86
65	INSTALL	2	M5-23.7.1	Same	\$34.00
65	INSTALL	1	M5-61.1	Same	\$67.06
65	INSTALL	1	P50-1	Same	\$705.92
65	INSTALL	1	POLE SET	Same	\$70.22
66	INSTALL	49	O336 AAC	Same	\$26.59
66	INSTALL	148	O795 AAC	Same	\$177.25
66	INSTALL	1	C1-3	Same	\$336.54
66	INSTALL	1	M2-2	Same	\$105.13
66	INSTALL	1	P50-1	Same	\$705.92
66	INSTALL	1	POLE SET	Same	\$70.22
67	INSTALL	1	M3-1	Same	\$68.82
67	INSTALL	117	O1-0 ACSR	Same	\$24.48
67	INSTALL	117	O1-0 ACSR	Same	\$24.48
67	INSTALL	51	O336 AAC	Same	\$27.81

Location	Function	Qty	Unit	Crew	Material Cost
67	INSTALL	154	O795 AAC	Same	\$185.39
67	INSTALL	1	A5-2	Same	\$23.42
67	INSTALL	1	C7-7	Same	\$180.23
67	INSTALL	1	C7X	Same	\$103.84
67	INSTALL	2	E1-2	Same	\$91.56
67	INSTALL	1	E1-3	Same	\$136.01
67	INSTALL	2	F1-3	Same	\$48.24
67	INSTALL	1	F1-4	Same	\$64.78
67	INSTALL	1	M2-2	Same	\$105.13
67	INSTALL	2	M42-11	Same	\$10.80
67	INSTALL	2	M42-13	Same	\$16.44
67	INSTALL	6	M42-17	Same	\$106.14
67	INSTALL	1	M5-23.1.1	Same	\$14.86
67	INSTALL	4	M5-23.7.1	Same	\$68.00
67	INSTALL	1	M5-61.1	Same	\$67.06
67	INSTALL	1	M5-61.3	Same	\$201.18
67	INSTALL	1	P50-1	Same	\$705.92
68	INSTALL	1	A6	Same	\$23.20
68	INSTALL	1	E1-2	Same	\$45.78
68	INSTALL	1	F1-3	Same	\$24.12
68	INSTALL	1	M2-2	Same	\$105.13
68	INSTALL	4	M42-11	Same	\$21.60
68	INSTALL	1	M5-2	Same	\$18.88
68	INSTALL	1	P40-5	Same	\$254.72
86	INSTALL	52	O4 ACSR	Same	\$5.25
86	INSTALL	52	O4 ACSR	Same	\$5.25
67A	INSTALL	1	A5-1	Same	\$17.96
67A	INSTALL	1	E1-2	Same	\$45.78
67A	INSTALL	1	F1-3	Same	\$24.12
67A	INSTALL	2	M42-11	Same	\$10.80
67A	INSTALL	1	M5-1	Same	\$6.36
67A	INSTALL	1	M5-23.1.1	Same	\$14.86
67B	INSTALL	1	A5-1	Same	\$17.96
67B	INSTALL	2	M42-11	Same	\$10.80
67B	INSTALL	1	M5-1	Same	\$6.36
67B	INSTALL	1	M5-23.3.1	Same	\$13.52
67D	INSTALL	1	A5-1	Same	\$17.96
67D	INSTALL	2	E1-2	Same	\$91.56
67D	INSTALL	1	F1-3	Same	\$24.12
67D	INSTALL	2	M42-11	Same	\$10.80
10.1	INSTALL	1	M42-11	Same	\$5.40
10.1	INSTALL	1	M42-11.1	Same	\$15.02
10.1	INSTALL	269	O4 ACSR	Same	\$26.92
10.1	INSTALL	269	O4 ACSR	Same	\$26.92
10.1	INSTALL	8	O4 ACSR	Same	\$0.78
10.1	INSTALL	8	O4 ACSR	Same	\$0.78
23-1	INSTALL	1	A1	Same	\$19.49
23-1	INSTALL	1	M2-2	Same	\$105.13
23-1	INSTALL	1	P45-4	Same	\$366.62
61.1	INSTALL	2	M42-11	Same	\$10.80
61.1	INSTALL	1	M5-23.1.1	Same	\$14.86

Summary

\$63,477.70

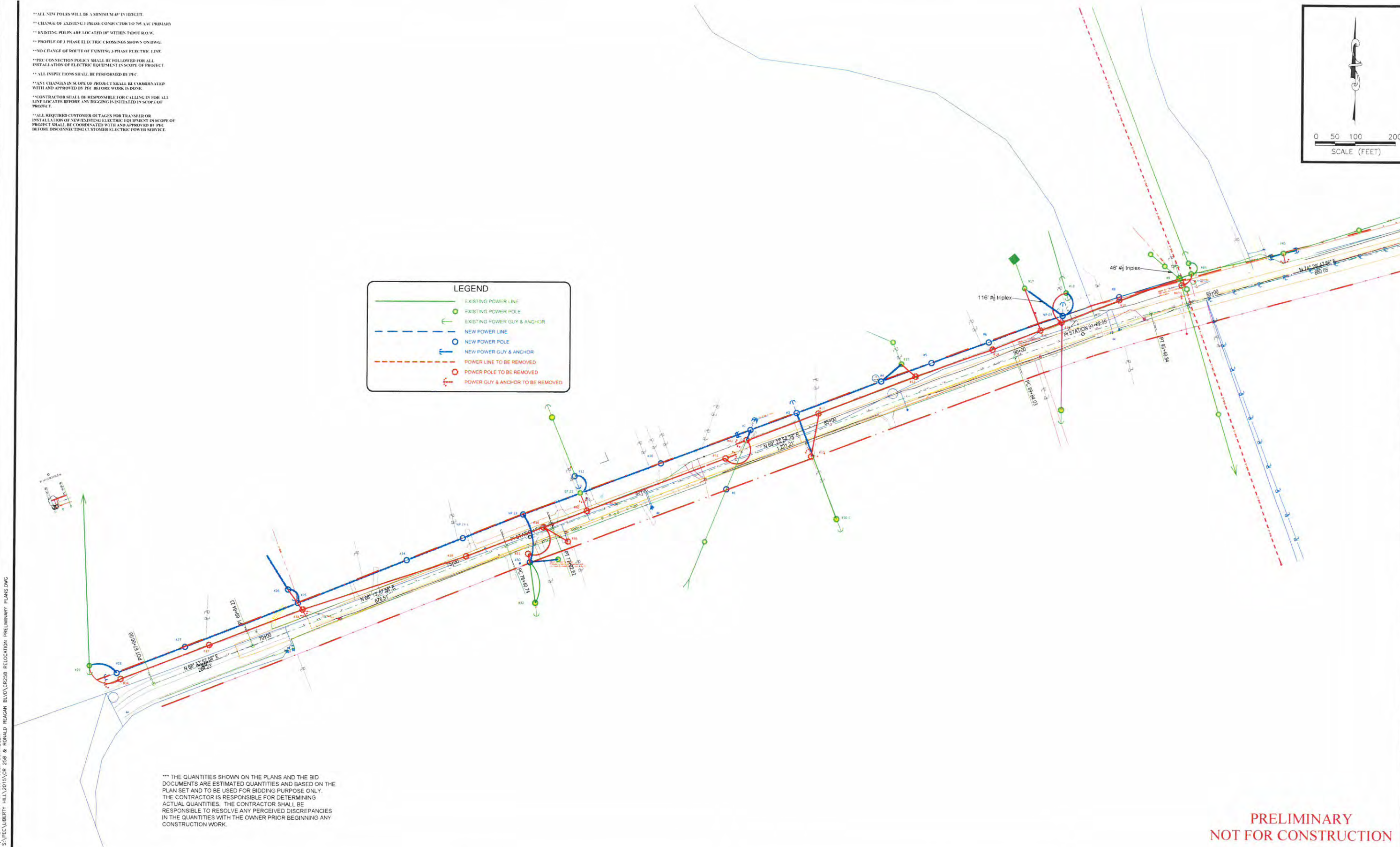
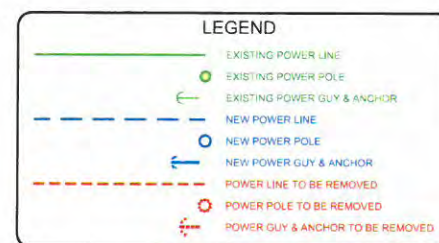
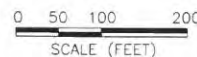
Cost Type	Amount
Total Material Cost	\$63,477.70

Total Estimated Labor Costs = <u>\$107,246.52</u>			Number of Units			
Assembly Units	Assembly Descriptions	Unit of Measure	Install Units	Remove Units	Unit Cost	Total Cost Per Unit
A1	1Ph Tangent Single Support	EA	7		\$ 49.22	\$ 344.53
A1-1	1Ph Tangent Double Support	EA	1		\$ 55.73	\$ 55.73
A4	1Ph Large Angle	EA	1		\$ 122.50	\$ 122.50
A4	1Ph Large Angle	EA	1		\$ 122.50	\$ 122.50
A5	1Ph Deadend	EA	1		\$ 76.91	\$ 76.91
A5-1	1Ph Tap off of a 1Ph pole	EA	3		\$ 104.57	\$ 313.72
A5-2	1Ph Tap off of a Multi-Phase pole	EA	2		\$ 104.57	\$ 209.14
A5-2	1Ph Tap off of a Multi-Phase pole	EA	4		\$ 104.57	\$ 418.29
A5-2A	1Ph Tap off a Multi-Phase pole existing	EA	2		\$ 104.57	\$ 209.14
A5-3	1Ph Tap off an Existing Bolt	EA	2		\$ 122.50	\$ 245.00
A5-3N	1Ph Tap off an Existing Bolt Less Neutra	EA	6		\$ 69.93	\$ 419.56
A5-4	1Ph Tap off an Existing Bolt with Ridge	EA	3		\$ 122.50	\$ 367.50
A6	1Ph Double Deadend	EA	2		\$ 122.50	\$ 245.00
A6	1Ph Double Deadend	EA	3		\$ 122.50	\$ 367.50
C1-2	3Ph Tangent Single Support with Saddle Pin	EA	4		\$ 139.33	\$ 557.34
C1-2	3Ph Tangent Single Support with Saddle Pin	EA	2		\$ 139.33	\$ 278.67
C1-3	3Ph Tangent Double Support with Saddle Pin	EA	3		\$ 189.18	\$ 567.53
C1-3	3Ph Tangent Double Support with Saddle Pin	EA	3		\$ 189.18	\$ 567.53
C7-7	3Ph Deadend #795 AAC	EA	2		\$ 340.67	\$ 681.33
C7-7	3Ph Deadend #795 AAC	EA	7		\$ 340.67	\$ 2,384.66
C8	3Ph Double Deadend or Medium Angle	EA	1		\$ 453.09	\$ 453.09
C8-1	3Ph Double Deadend 4-cond	EA	1		\$ 476.42	\$ 476.42
E1-2	Un-grounded Single Down Guy	EA	13		\$ 104.64	\$ 1,360.28
E1-2	Un-grounded Single Down Guy	EA	11		\$ 104.64	\$ 1,151.01
E1-3	Un-grounded Double Down Guy	EA	4		\$ 186.02	\$ 744.07
E1-3	Un-grounded Double Down Guy	EA	4		\$ 186.02	\$ 744.07
F1-3	Anchor 3/4" x 8' rod 10k pound anchor	EA	7		\$ 320.24	\$ 2,241.69
F1-3	Anchor 3/4" x 8' rod 10k pound anchor	EA	7		\$ 320.24	\$ 2,241.69
F1-4	Anchor 1" x 10' rod 16k-40k pound anch	EA	5		\$ 357.77	\$ 1,788.87
F1-4	Anchor 1" x 10' rod 16k-40k pound anch	EA	5		\$ 357.77	\$ 1,788.87
G135	1Phase Transformer Pre-mounted arrester	EA	3		\$ 190.66	\$ 571.97
G135	1Phase Transformer Pre-mounted arrester	EA	2		\$ 190.66	\$ 381.32
M2-1	Pole Ground Driven Ground Rod	EA	1		\$ 72.33	\$ 72.33
M2-2	Pole Grnd Butt Plate NESC "Made Ground"	EA	18		\$ 72.33	\$ 1,301.98
M2-2	Pole Grnd Butt Plate NESC "Made Ground"	EA	16		\$ 72.33	\$ 1,157.31
M3-1	Fused Cutout	EA	2		\$ 103.73	\$ 207.45
M3-1	Fused Cutout	EA	4		\$ 103.73	\$ 414.91
M3-1.1	Fused Loadbreak Cutout	EA	3		\$ 103.73	\$ 311.18
M42-11	Deadend Assembly #4 or #1-0 ACSR	EA	26		\$ 39.07	\$ 1,015.69
M42-11	Deadend Assembly #4 or #1-0 ACSR	EA	33		\$ 39.07	\$ 1,289.15
M42-11.1	Deadend Assembly #4 or #1-0 ACSR with b	EA	4		\$ 39.07	\$ 156.26
M42-11.1	Deadend Assembly #4 or #1-0 ACSR with b	EA	3		\$ 39.07	\$ 117.20
M42-13	Deadend Assembly #336	EA	4		\$ 39.07	\$ 156.26
M42-13	Deadend Assembly #336	EA	10		\$ 39.07	\$ 390.65
M42-17	Deadend Assembly #795	EA	12		\$ 39.07	\$ 468.78
M42-17	Deadend Assembly #795	EA	30		\$ 39.07	\$ 1,171.95
M5-1	Jumper	EA	4		\$ 32.76	\$ 131.04
M5-2	Pole top pin and insulator	EA	2		\$ 35.35	\$ 70.69
M5-2	Pole top pin and insulator	EA	2		\$ 35.35	\$ 70.69
M5-23.1.1	Stirrup Hot Line #4 or #1/0	EA	8		\$ 32.76	\$ 262.08
M5-23.1.1	Stirrup Hot Line #4 or #1/0	EA	7		\$ 32.76	\$ 229.32
M5-23.7.1	Stirrup Hot Line #795	EA	16		\$ 32.76	\$ 524.16
M5-23.7.1	Stirrup Hot Line #795	EA	17		\$ 32.76	\$ 556.92
M5-4	DA Bolt Adapter - side insul pole jumper	EA	1		\$ 35.36	\$ 35.36
M5-5	Cross arm pin and insulator Drop in	EA	3		\$ 35.36	\$ 106.08
M5-5	Cross arm pin and insulator Drop in	EA	7		\$ 35.36	\$ 247.52
M5-61.1	Single Phase #4, 1/0 Off Pole Arrester	EA	6		\$ 74.48	\$ 446.86
M5-61.1	Single Phase #4, 1/0 Off Pole Arrester	EA	5		\$ 74.48	\$ 372.39
M5-61.3	Three Phase #4, 1/0 Off Pole Arrester	EA	3		\$ 74.48	\$ 223.43
M5-61.3	Three Phase #4, 1/0 Off Pole Arrester	EA	2		\$ 74.48	\$ 148.95
O1-0 ACSR	OH Conductor 1-0 ACSR	per ft.	3700.84415		\$ 0.52	\$ 1,924.44
O1-0 TP	OH Service Conductor 1-0 Triplex	per ft.	195.82019		\$ 0.99	\$ 193.47
O336 AAC	OH Conductor 336 Aluminum	per ft.	1146.31297		\$ 0.88	\$ 1,013.34

O336 AAC	OH Conductor 336 Aluminum	per ft.	1651.70359	S	0.88	\$ 1,460.11
O4 ACSR	OH Conductor 4 ACSR	per ft.	832.719469	S	0.43	\$ 357.24
O4 ACSR	OH Conductor 4 ACSR	per ft.	1074.31442	S	0.43	\$ 460.88
O795 AAC	OH Conductor 795 AAC	per ft.	3438.93892	S	1.31	\$ 4,515.33
O795 AAC	OH Conductor 795 AAC	per ft.	4955.11076	S	1.31	\$ 6,506.06
P40-5	Pole Dist 40 Ft Class 5 Wood	EA	2	S	324.88	\$ 649.77
P40-5	Pole Dist 40 Ft Class 5 Wood	EA	2	S	324.88	\$ 649.77
P45-3	Pole Dist 45 Ft Class 3 Wood	EA	2	S	361.13	\$ 722.25
P45-4	Pole Dist 45 Ft Class 4 Wood	EA	7	S	361.13	\$ 2,527.89
P50-1	Pole Dist 50 Ft Class 1 Wood	EA	2	S	415.78	\$ 831.56
P50-1	Pole Dist 50 Ft Class 1 Wood	EA	9	S	415.78	\$ 3,742.01
P50-3	Pole Dist 50 Ft Class 3 Wood	EA	7	S	415.78	\$ 2,910.45
P50-3	Pole Dist 50 Ft Class 3 Wood	EA	3	S	415.78	\$ 1,247.34
P55C	Pole Dist 55 Ft Conc Engineer Self-Supp	EA	1	S	769.35	\$ 769.35
POLE SET - 7.5 CUB	Pole Set - 7.5 cubic ft	EA	5	N/A		
10 kVA - OH	10 kVA OH Transformer	EA	1	S	123.76	\$ 123.76
25 kVA - OH	25 kVA OH Transformer	EA	2	S	248.34	\$ 496.68
25 kVA - OH	25 kVA OH Transformer	EA	1	S	248.34	\$ 248.34
ZC1-1B	3PH TANGENT DBL SUPP NARROW CONSTR	EA	3	S	186.60	\$ 559.81
ZC7B	3Ph Deadend Narrow Constr	EA	1	S	229.58	\$ 229.58
ZM5-15B	18" 3 position fbrgls Standoff Bracket	EA	1	S	61.37	\$ 61.37
ZM5-15B	18" 3 position fbrgls Standoff Bracket	EA	3	S	61.37	\$ 184.12
E1-2	Un-grounded Single Down Guy	EA	1	S	104.64	\$ 104.64
10 kVA - OH	10 kVA OH Transformer	EA	1	S	123.76	\$ 123.76
K18	LO: Service Assembly Eye Bolt	EA	5	S	32.76	\$ 163.80
K18	LO: Service Assembly Eye Bolt	EA	1	S	32.76	\$ 32.76
L2-2.1	Security Light 100W High Pressure Sodium	EA	1	S	174.76	\$ 174.76
M3-10	Single Phase OCR W/Bypass	EA	2	S	280.81	\$ 561.63
REC 50A - 1- Phase	Recloser 50 AMP - Single Phase	EA	1	S	280.81	\$ 280.81
REC 50A - 1- Phase	Recloser 50 AMP - Single Phase	EA	2	S	280.81	\$ 561.63
M8-10	Meter Loop Underground Service	EA	1	S	433.38	\$ 433.38
A1	1Ph Tangent Single Support	EA	2	S	36.91	\$ 73.83
A1	1Ph Tangent Single Support	EA	1	S	36.91	\$ 36.91
A1-1	1Ph Tangent Double Support	EA	2	S	41.80	\$ 83.60
A4N	1Ph Large Angle Less Neutral	EA	1	S	72.89	\$ 72.89
A5	1Ph Deadend	EA	2	S	57.68	\$ 115.36
A5-1	1Ph Tap off of a 1Ph pole	EA	1	S	78.43	\$ 78.43
A5-1	1Ph Tap off of a 1Ph pole	EA	1	S	78.43	\$ 78.43
A5-1N	1Ph Tap off of a 1Ph pole Less Neutral	EA	4	S	52.45	\$ 209.78
A5-1N	1Ph Tap off of a 1Ph pole Less Neutral	EA	1	S	52.45	\$ 52.45
A5-2	1Ph Tap off of a Multi-Phase pole	EA	2	S	78.43	\$ 156.86
A5-2	1Ph Tap off of a Multi-Phase pole	EA	2	S	78.43	\$ 156.86
A5-2N	1Ph Tap off of a Multi-Phase pole Less N	EA	2	S	67.89	\$ 135.78
A5-2N	1Ph Tap off of a Multi-Phase pole Less N	EA	3	S	67.89	\$ 203.67
A5-3	1Ph Tap off an Existing Bolt	EA	2	S	91.87	\$ 183.75
A5N	1Ph Deadend Less Neutral	EA	1	S	40.80	\$ 40.80
A6	1Ph Double Deadend	EA	3	S	91.87	\$ 275.62
A6	1Ph Double Deadend	EA	1	S	91.87	\$ 91.87
A6N	1Ph Double Deadend Less Neutral	EA	1	S	91.87	\$ 91.87
C1-2	3Ph Tangent Single Support with Saddle Pin	EA	3	S	104.50	\$ 313.50
C1-2	3Ph Tangent Single Support with Saddle Pin	EA	5	S	104.50	\$ 522.50
C1-3	3Ph Tangent Double Support with Saddle Pin	EA	2	S	141.88	\$ 283.76
C2-2	3Ph Small Angle #1-0 ACSR #336 or 795 AAC	EA	1	S	171.20	\$ 171.20
C7-7	3Ph Deadend #795 AAC	EA	2	S	255.50	\$ 511.00
C7-7	3Ph Deadend #795 AAC	EA	2	S	255.50	\$ 511.00
C8	3Ph Double Deadend or Medium Angle	EA	2	S	339.82	\$ 679.63
C9-2	3Ph Tangent or Small Angle Dbl Support a	EA	1	S	141.73	\$ 141.73
E1-1	Grounded Single Down Guy	EA	2	S	78.48	\$ 156.96
E1-1	Grounded Single Down Guy	EA	2	S	78.48	\$ 156.96
E1-2	Un-grounded Single Down Guy	EA	8	S	78.48	\$ 627.82
E1-2	Un-grounded Single Down Guy	EA	9	S	78.48	\$ 706.30
E1-3	Un-grounded Double Down Guy	EA	2	S	139.51	\$ 279.03
E1-3	Un-grounded Double Down Guy	EA	1	S	139.51	\$ 139.51
F1-3	Anchor 3/4" x 8' rod 10k pound anchor	EA	11	S	77.66	\$ 854.26
F1-3	Anchor 3/4" x 8' rod 10k pound anchor	EA	10	S	77.66	\$ 776.60
F1-4	Anchor 1" x 10' rod 16k-40k pound anch	EA	4	S	77.66	\$ 310.64
F1-4	Anchor 1" x 10' rod 16k-40k pound anch	EA	5	S	77.66	\$ 388.30
F2-1	Anchor Drilled and grouted 3/4" x 8' r	EA	1	S	77.66	\$ 77.66
10 kVA - OH	10 kVA OH Transformer	EA	1	S	92.82	\$ 92.82
G135	1Phase Transformer Pre-mounted arrester	EA	4	S	142.99	\$ 571.97
G135	1Phase Transformer Pre-mounted arrester	EA	2	S	142.99	\$ 285.99

15 kVA - OH	15 kVA OH Transformer	EA	1	\$	92.82	\$	92.82
25 kVA - OH	25 kVA OH Transformer	EA	2	\$	186.25	\$	372.51
25 kVA - OH	25 kVA OH Transformer	EA	1	\$	186.25	\$	186.25
J6	Sec or N Assemb Swinging Sec clevis	EA	11	\$	24.57	\$	270.27
J6	Sec or N Assemb Swinging Sec clevis	EA	6	\$	24.57	\$	147.42
K14	Service Assembly Service Clevis	EA	1	\$	24.57	\$	24.57
K14	Service Assembly Service Clevis	EA	1	\$	24.57	\$	24.57
K15	Svc Assemb Eye Nut w/Swinging Sec clevis	EA	1	\$	24.57	\$	24.57
K18	LO: Service Assembly Eye Bolt	EA	2	\$	24.57	\$	49.14
KC	Service Assembly Wedge Clamp	EA	5	\$	24.57	\$	122.85
KDHC	Service Assemb Wedge Clamp w/ drive hook	EA	3	\$	24.57	\$	73.71
KDHC	Service Assemb Wedge Clamp w/ drive hook	EA	2	\$	24.57	\$	49.14

*ALL REQUIRED CUSTOMER OUTAGES FOR TRANSFER OR INSTALLATION OF NEW/EXISTING ELECTRIC EQUIPMENT IN SCOPE OF PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC BEFORE DISCONNECTING CUSTOMER ELECTRIC POWER SERVICE.



*** THE QUANTITIES SHOWN ON THE PLANS AND THE BID DOCUMENTS ARE ESTIMATED QUANTITIES AND BASED ON THE PLAN SET AND TO BE USED FOR BIDDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE ANY PERCEIVED DISCREPANCIES IN THE QUANTITIES WITH THE OWNER PRIOR BEGINNING ANY CONSTRUCTION WORK.

PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

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PEDERNALES ELECTRIC COOPERATIVE, INC.

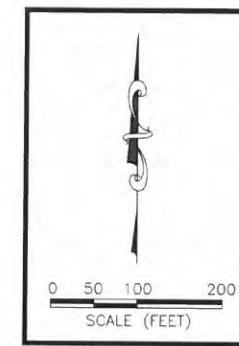
CR258 RELOCATION PRELIMINARY
PLANS

DATE: 01/29/2014
SCALE: 1"=100'
ENGINEER: XXXXXXXX
DESIGNED BY: K. WJ M. C
DRAWN BY: MIKE GOLD
SHEET: 1 OF 10

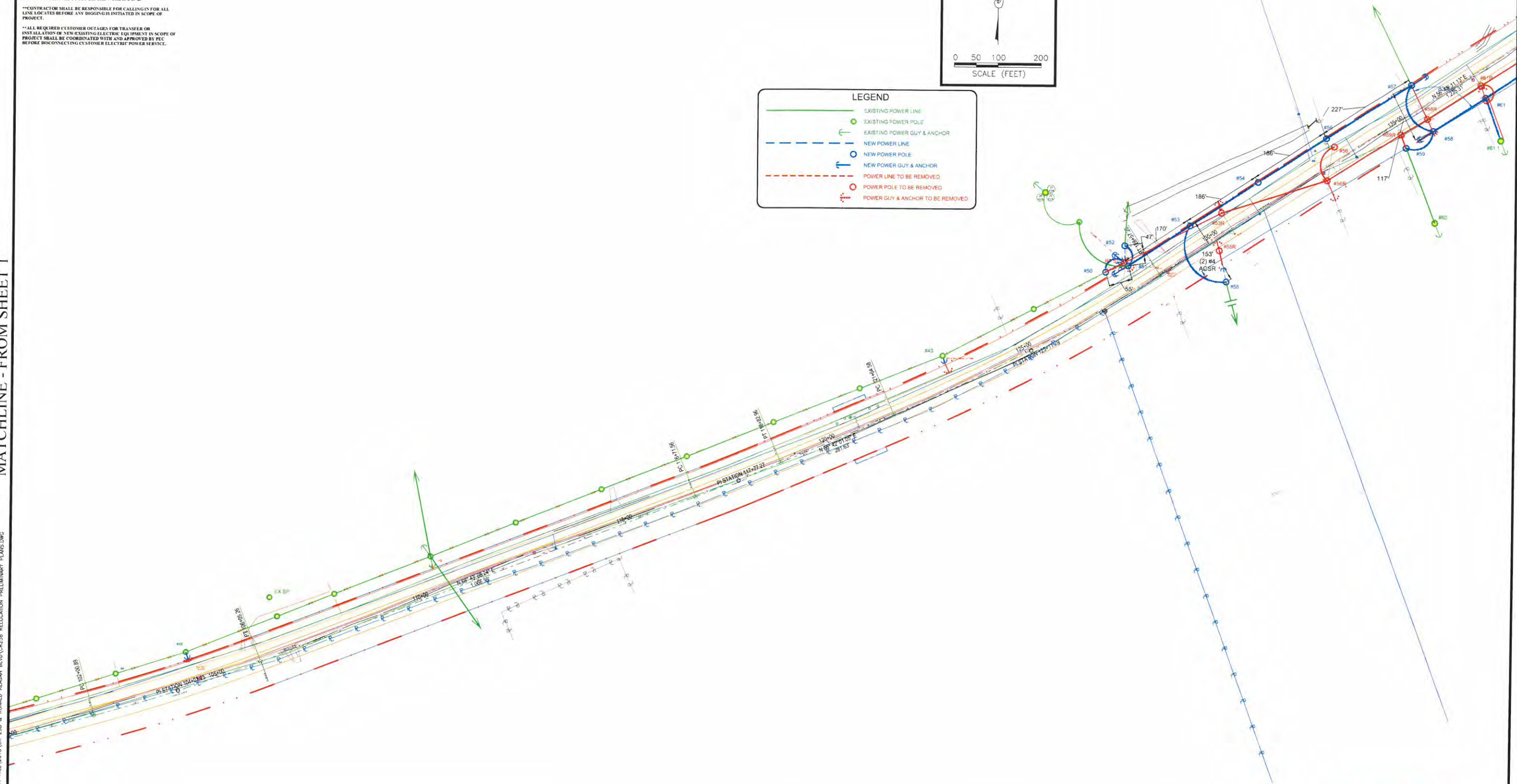
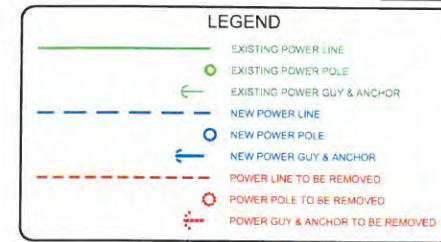
MATCHLINE - FROM SHEET 2

Date: 3/16/2016 8:03 AM User: JOSH SCHINDLER
File: S:\PEC\LIBERTY HILL\2015\CR 258 & RONALD REAGAN BLVD\CR258B RELOCATION PRELIMINARY PLANS.DWG

- * ALL NEW POLES WILL BE A MINIMUM 45' IN HEIGHT.
- * CHANGE OF EXISTING 3-PHASE CONDUCTOR TO 3P3C AAC PRIMARY
- * EXISTING POLES ARE LOCATED 15' WITHIN TADOT R.O.W.
- * PROFILE OF 3-PHASE ELECTRIC CROSSINGS SHOWN ON DWG.
- * NO CHANGE OF ROUTE OF EXISTING 3-PHASE ELECTRIC LINE.
- * PEC CONNECTION POLICY SHALL BE FOLLOWED FOR ALL INSTALLATION OF ELECTRIC EQUIPMENT IN SCOPE OF PROJECT.
- * ALL INSPECTIONS SHALL BE PERFORMED BY PEC.
- * ANY CHANGES IN SCOPE OF PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC BEFORE WORK IS DONE.
- * CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN FOR ALL UTILITIES BEFORE ANY DIGGING IS INITIATED IN SCOPE OF PROJECT.
- * ALL REQUIRED CUSTOMER OUTAGES FOR TRANSFER OR INSTALLATION OF NEW EXISTING ELECTRIC EQUIPMENT IN SCOPE OF PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC BEFORE DISCONNECTING CUSTOMER ELECTRIC POWER SERVICE.



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[illegible]

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BRANCH OFFICE
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McQUEENY, TEXAS 78123
PHONE # (830) 560-3200
FAX # (830) 560-3203

ENGINEERING
ENGINEERS, PLANNERS AND SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-1984



PEDERNALES ELECTRIC COOPERATIVE, INC.










CR258 RELOCATION PRELIMINARY
PLANS

DATE: 01/21/2016
SCALE: 1"=100'
ENGINEER: XXXXXX,
DESIGNED BY: K. WJ/M. G.
DRAWN BY: MIKE GOLD
SHEET: 2 OF 10

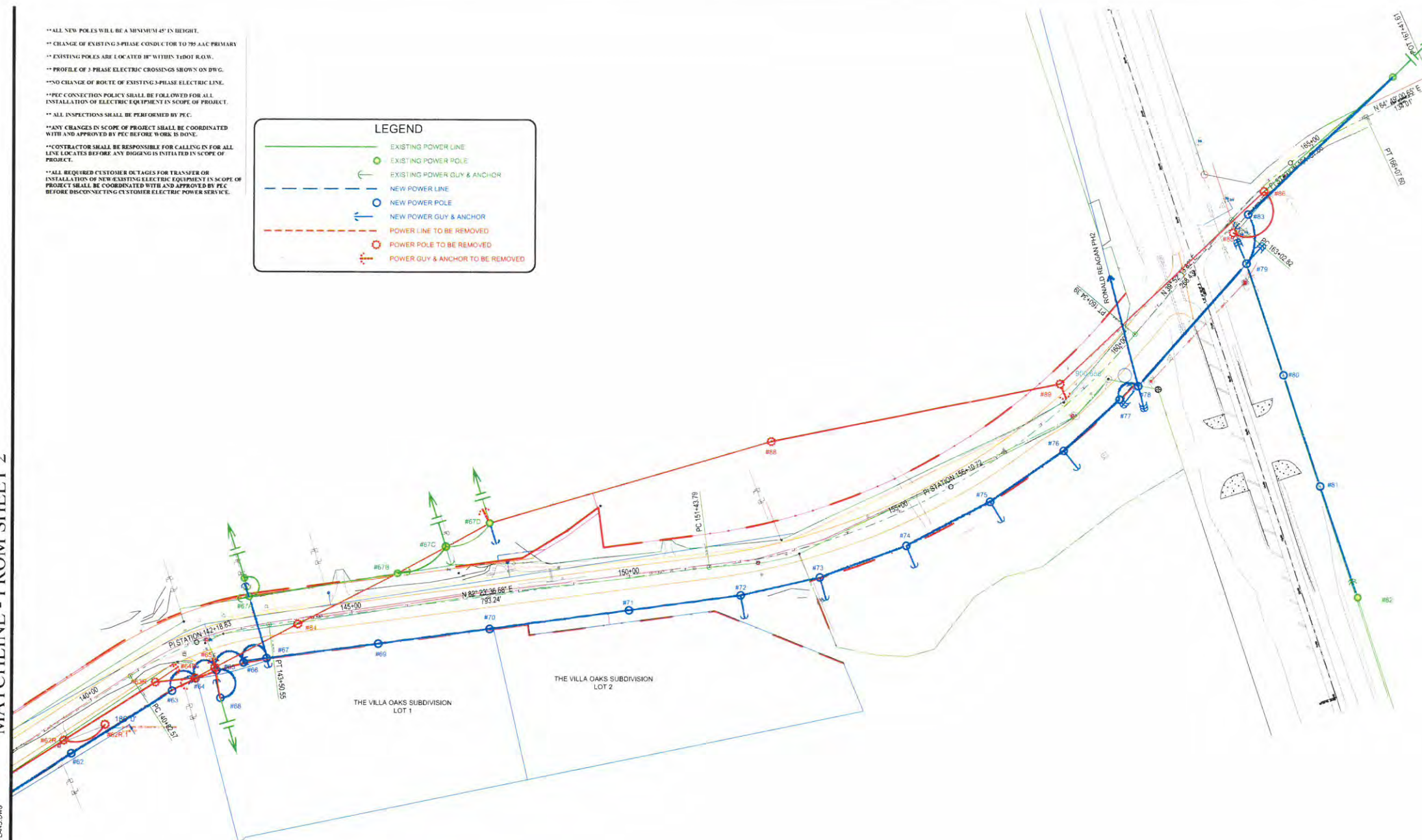
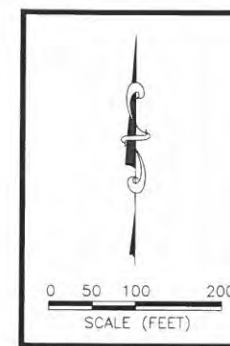
MATCHLINE - FROM SHEET 3

E	
D	
C	
B	
A	
Ltr.	Do

LEGEND

	EXISTING POWER LINE
	EXISTING POWER POLE
	EXISTING POWER GUY & ANCHOR
	NEW POWER LINE
	NEW POWER POLE
	NEW POWER GUY & ANCHOR
	POWER LINE TO BE REMOVED
	POWER POLE TO BE REMOVED
	POWER GUY & ANCHOR TO BE REMOVED

*** THE QUANTITIES SHOWN ON THE PLANS AND THE BID DOCUMENTS ARE ESTIMATED QUANTITIES AND BASED ON THE PLAN SET AND TO BE USED FOR BIDDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE ANY PERCEIVED DISCREPANCIES IN THE QUANTITIES WITH THE OWNER PRIOR BEGINNING ANY CONSTRUCTION WORK.




PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

MAIN OFFICE
PO BOX 970
SPRING BRANCH TEXAS 75971
PHONE# (830) 228-5446
FAX# (830) 885-2170

M & S



BRANCH
PO
McQUEEN
PHONE#
FAX#

ENGINEERING
ENGINEERS, PLANNERS AND SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM E-1394



PEDERNALES ELECTRIC COOPERATIVE, INC.

CR258 RELOCATION PRELIMINARY
PLANS

DATE: 01/23/2016
SCALE: 1"=100'
ENGINEER: XXXXXXXX
DESIGNED BY: K. W./M. C
DRAWN BY: MIKE GOLD
SHEET: 3 OF 10



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
1	INSTALL	C1-3	1	Same	3Ph Tangent Double Support with Saddle P		
1	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
1	INSTALL	M5-23.7.1	3	Same	Stirrup Hot Line #795		
1	INSTALL	M5-61.3	1	Same	Three Phase Off Pole Arrester		
1	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood		
2	INSTALL	A5-2A	1	Same	1Ph Tap off of a Multi-Phase pole existing		
2	INSTALL	C7-7	2	Same	3Ph Deadend #795 AAC		
2	INSTALL	E1-2	4	Same	Un-grounded Single Down Guy		
2	INSTALL	E1-3	2	Same	Un-grounded Double Down Guy		
2	INSTALL	F1-3	2	Same	Anchor 3/4" x 8" rod 10k pound anchor		
2	INSTALL	F1-4	2	Same	Anchor 1" x 10" rod 16k-40k pound anchor		
2	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
2	INSTALL	M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR		
2	INSTALL	M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b		
2	INSTALL	M42-13	2	Same	Deadend Assembly #336		
2	INSTALL	M42-17	6	Same	Deadend Assembly #795		
2	INSTALL	M5-1	4	Same	Jumper		
2	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0		
2	INSTALL	M5-23.7.1	2	Same	Stirrup Hot Line #795		
2	INSTALL	M5-5	3	Same	Cross arm pin and insulator Drop in		
2	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester		
2	INSTALL	O336 AAC	19	Same	OH Conductor 336 Aluminum		SPLICE TO EXISTING
2	INSTALL	O795 AAC	58	Same	OH Conductor 795 AAC		SPLICE TO EXISTING
2	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood		
2	INSTALL (LABOR ONLY)	M3-10.50E	1	Same	Recloser 50 AMP E		
3	INSTALL	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole		
3	INSTALL	C1-2	1	Same	3Ph Tangent Single Support with Saddle P		
3	INSTALL	E1-2	1	Same	Un-grounded Single Down Guy		
3	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor		
3	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
3	INSTALL	M3-1	1	Same	Fused Cutout		
3	INSTALL	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR		
3	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0		
3	INSTALL	M5-23.7.1	1	Same	Stirrup Hot Line #795		
3	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester		
3	INSTALL	O336 AAC	123	Same	OH Conductor 336 Aluminum		
3	INSTALL	O795 AAC	368	Same	OH Conductor 795 AAC		
3	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood		
4	INSTALL	C1-2	1	Same	3Ph Tangent Single Support with Saddle P		
4	INSTALL	G135	1	Same	1Phase Transformer Pre-mounted arrester		
4	INSTALL	G25DV	1	Same	Tran OH DV 120/240 25 1 Bush		
4	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
4	INSTALL	M5-23.7.1	1	Same	Stirrup Hot Line #795		
4	INSTALL	O336 AAC	225	Same	OH Conductor 336 Aluminum		
4	INSTALL	O795 AAC	675	Same	OH Conductor 795 AAC		
4	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood		
4	INSTALL (LABOR ONLY)	K18	1	Same	LO: Service Assembly Eye Bolt		
5	INSTALL	C1-2	1	Same	3Ph Tangent Single Support with Saddle P		
5	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
5	INSTALL	M5-23.7.1	3	Same	Stirrup Hot Line #795		
5	INSTALL	M5-61.3	1	Same	Three Phase Off Pole Arrester		
5	INSTALL	O336 AAC	141	Same	OH Conductor 336 Aluminum		
5	INSTALL	O795 AAC	423	Same	OH Conductor 795 AAC		
5	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood		
6	INSTALL	C1-2	1	Same	3Ph Tangent Single Support with Saddle P		
6	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
6	INSTALL	O336 AAC	135	Same	OH Conductor 336 Aluminum		
6	INSTALL	O795 AAC	405	Same	OH Conductor 795 AAC		
6	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood		
7	INSTALL	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole		
7	INSTALL	A5-2A	1	Same	1Ph Tap off of a Multi-Phase pole existing		
7	INSTALL	C1-3	1	Same	3Ph Tangent Double Support with Saddle P		
7	INSTALL	E1-2	1	Same	Un-grounded Single Down Guy		
7	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor		
7	INSTALL	G135	1	Same	1Phase Transformer Pre-mounted arrester		
7	INSTALL	G25DV	1	Same	Tran OH DV 120/240 25 1 Bush		
7	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
7	INSTALL	M3-1	1	Same	Fused Cutout		
7	INSTALL	M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR		
7	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0		
7	INSTALL	M5-23.7.1	3	Same	Stirrup Hot Line #795		
7	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester		
7	INSTALL	O1-0 TP	116	Same	OH Service Conductor 1-0 Triplex		
7	INSTALL	O336 AAC	208	Same	OH Conductor 336 Aluminum		
7	INSTALL	O795 AAC	623	Same	OH Conductor 795 AAC		
7	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood		
7	INSTALL (LABOR ONLY)	K18	1	Same	LO: Service Assembly Eye Bolt		
8	INSTALL	C1-3	1	Same	3Ph Tangent Double Support with Saddle P		
8	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"		
8	INSTALL	M5-23.7.1	3	Same	Stirrup Hot Line #795		
8	INSTALL	M5-61.3	1	Same	Three Phase Off Pole Arrester		
8	INSTALL	O336 AAC	156	Same	OH Conductor 336 Aluminum		
8	INSTALL	O795 AAC	469	Same	OH Conductor 795 AAC		
8	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood		
8	REMOVE	O336 AAC	156	Same	OH Conductor 336 Aluminum		
8	REMOVE	O795 AAC	467	Same	OH Conductor 795 AAC		
9	INSTALL	C8-1	1	Same	3Ph Double Deadend 4-cond		
9	INSTALL	M42-13	2	Same	Deadend Assembly #336		
9	INSTALL	M42-17	6	Same	Deadend Assembly #795		
9	INSTALL	O336 AAC	140	Same	OH Conductor 336 Aluminum		
9	INSTALL	O795 AAC	419	Same	OH Conductor 795 AAC		
9	INSTALL (LABOR ONLY)	M8-10	1	Same	LO: Meter Loop Underground Service		
9	REMOVE	C9-2	1	Same	3Ph Tangent or Small Angle Dbl Support a		
10	REMOVE	A6N	1	Same	1Ph Double Deadend Less Neutral		
10	REMOVE	E1-1	1	Same	Grounded Single Down Guy		
10	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor		
10	REMOVE	J6	2	Same	Sec or N Assemb Swinging Sec clevis		
10	REMOVE	M2-1	1	Same	Pole Ground Driven Ground Rod		
10	REMOVE	M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR		
10	REMOVE	M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b		



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
10	REMOVE		M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
10	REMOVE		O1-0 ACSR	179	Same	OH Conductor 1-0 ACSR	
10	REMOVE		O1-0 ACSR	179	Same	OH Conductor 1-0 ACSR	
10	REMOVE		O1-0 ACSR	64	Same	OH Conductor 1-0 ACSR	
10	REMOVE		O1-0 ACSR	64	Same	OH Conductor 1-0 ACSR	
10	REMOVE		P35-5	1	Same	Pole Dist 35 Ft Class 5 Wood	
11	REMOVE		A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
11	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
11	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
11	REMOVE		M3-2	1	Same	Fused Cutout & Arrester Combination	
11	REMOVE		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
11	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
11	REMOVE		O1-0 ACSR	36	Same	OH Conductor 1-0 ACSR	
11	REMOVE		O1-0 ACSR	36	Same	OH Conductor 1-0 ACSR	
11	REMOVE		O336 AAC	192	Same	OH Conductor 336 Aluminum	
11	REMOVE		O795 AAC	576	Same	OH Conductor 795 AAC	
12	REMOVE		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
12	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
12	REMOVE		G135	1	Same	1Phase Transformer Pre-mounted arrester	
12	REMOVE		G25DV	1	Same	Tran OH DV 120/240 25 1 Bush	
12	REMOVE		K18	1	Same	LO: Service Assembly Eye Bolt	
12	REMOVE		KC	1	Same	RO: Service Assembly Wedge Clamp	
12	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
12	REMOVE		M5-23.7.1	4	Same	Stirrup Hot Line #795	
12	REMOVE		O336 AAC	260	Same	OH Conductor 336 Aluminum	
12	REMOVE		O795 AAC	780	Same	OH Conductor 795 AAC	
12	REMOVE		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
12	REMOVE		VMS-6	3	Same	18kV Lightning Arrester and Jumpers	
13	INSTALL		O1-0 TP	80	Same	OH Service Conductor 1-0 Triplex	
13	INSTALL (LABOR ONLY)		K18	1	Same	LO: Service Assembly Eye Bolt	
13	REMOVE		O1-0 TP	44	Same	OH Service Conductor 1-0 Triplex	
13	REMOVE (LABOR ONLY)		KDHC	1	Same	RO: Svc Assemb Wedge Clamp w/ drive hook	
14	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
14	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
14	REMOVE		O336 AAC	187	Same	OH Conductor 336 Aluminum	
14	REMOVE		O795 AAC	562	Same	OH Conductor 795 AAC	
14	REMOVE		P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
14	REMOVE		M2-1	1	Same	Pole Ground Driven Ground Rod	
15	REMOVE		O1-0 TP	90	Same	OH Service Conductor 1-0 Triplex	
15	REMOVE		P30-5	1	Same	Pole Dist 30 Ft Class 5 Wood	
15	REMOVE (LABOR ONLY)		K18	1	Same	LO: Service Assembly Eye Bolt	
15	REMOVE (LABOR ONLY)		K19	1	Same	LO: Service Assembly Eye Nut	
15	REMOVE (LABOR ONLY)		KC	2	Same	RO: Service Assembly Wedge Clamp	
15	REMOVE (LABOR ONLY)		M8-10	1	Same	LO: Meter Loop Underground Service	
16	REMOVE		A5-2N	2	Same	1Ph Tap off of a Multi-Phase pole Less N	
16	REMOVE		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
16	REMOVE		G135	1	Same	1Phase Transformer Pre-mounted arrester	
16	REMOVE		G25DV	1	Same	Tran OH DV 120/240 25 1 Bush	
16	REMOVE		J6	2	Same	Sec or N Assemb Swinging Sec clevis	
16	REMOVE		K18	1	Same	LO: Service Assembly Eye Bolt	
16	REMOVE		KC	1	Same	RO: Service Assembly Wedge Clamp	
16	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
16	REMOVE		M3-2	1	Same	Fused Cutout & Arrester Combination	
16	REMOVE		M5-23.7.1	3	Same	Stirrup Hot Line #795	
16	REMOVE		O1-0 TP	74	Same	OH Service Conductor 1-0 Triplex	
16	REMOVE		O336 AAC	127	Same	OH Conductor 336 Aluminum	
16	REMOVE		O795 AAC	381	Same	OH Conductor 795 AAC	
16	REMOVE		P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
17	INSTALL (LABOR ONLY)		K18	1	Same	LO: Service Assembly Eye Bolt	
18	REMOVE		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
19	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
19	REMOVE		P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
20	INSTALL		A1	1	Same	1Ph Tangent Single Support	
20	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
20	INSTALL		O1-0 ACSR	36	Same	OH Conductor 1-0 ACSR	
20	INSTALL		O1-0 ACSR	36	Same	OH Conductor 1-0 ACSR	
20	INSTALL		O1-0 ACSR	195	Same	OH Conductor 1-0 ACSR	
20	INSTALL		O1-0 ACSR	195	Same	OH Conductor 1-0 ACSR	
20	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
21	INSTALL		A1	1	Same	1Ph Tangent Single Support	
21	INSTALL		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
21	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
21	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
21	INSTALL		O1-0 ACSR	209	Same	OH Conductor 1-0 ACSR	
21	INSTALL		O1-0 ACSR	209	Same	OH Conductor 1-0 ACSR	
21	REMOVE		A6	1	Same	1Ph Double Deadend	
21	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
21	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
21	REMOVE		M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR	
21	REMOVE		M5-23.1.1	2	Same	Stirrup Hot Line #4 or #1/0	
22	REMOVE		M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
22	INSTALL		A6	1	Same	1Ph Double Deadend	
22	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
22	INSTALL		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
22	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
22	INSTALL		M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR	
22	INSTALL		M5-2	1	Same	Pole top pin and insulator	
22	INSTALL		P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
23	INSTALL		A1	1	Same	1Ph Tangent Single Support	
23	INSTALL		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
23	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
23	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
23	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
23	INSTALL		O1-0 ACSR	154	Same	OH Conductor 1-0 ACSR	
23	INSTALL		O1-0 ACSR	154	Same	OH Conductor 1-0 ACSR	
23	INSTALL		O4 ACSR	119	Same	OH Conductor 4 ACSR	
23	INSTALL		O4 ACSR	119	Same	OH Conductor 4 ACSR	
23	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
24	INSTALL		A1	1	Same	1Ph Tangent Single Support	
24	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
24	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
24	INSTALL		M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
24	INSTALL		O1-0 ACSR	152	Same	OH Conductor 1-0 ACSR	
24	INSTALL		O1-0 ACSR	152	Same	OH Conductor 1-0 ACSR	
24	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
25	INSTALL		A1	1	Same	1Ph Tangent Single Support	
25	INSTALL		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
25	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
25	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
25	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
25	INSTALL		M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
25	INSTALL		O1-0 ACSR	291	Same	OH Conductor 1-0 ACSR	
25	INSTALL		O1-0 ACSR	291	Same	OH Conductor 1-0 ACSR	
25	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
25	REMOVE		O4 ACSR	15	Same	OH Conductor 4 ACSR	
25	REMOVE		O4 ACSR	15	Same	OH Conductor 4 ACSR	
26	INSTALL		A6	1	Same	1Ph Double Deadend	
26	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
26	INSTALL		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
26	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
26	INSTALL		M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR	
26	INSTALL		M5-2	1	Same	Pole top pin and insulator	
26	INSTALL		P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
27	INSTALL		A1	1	Same	1Ph Tangent Single Support	
27	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
27	INSTALL		O1-0 ACSR	307	Same	OH Conductor 1-0 ACSR	
27	INSTALL		O1-0 ACSR	307	Same	OH Conductor 1-0 ACSR	
27	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
28	INSTALL		A4	1	Same	1Ph Large Angle	
28	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
28	INSTALL		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
28	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
28	INSTALL		M42-11	3	Same	Deadend Assembly #4 or #1-0 ACSR	
28	INSTALL		M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
28	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
28	INSTALL		M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
28	INSTALL		M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
28	INSTALL		O1-0 ACSR	183	Same	OH Conductor 1-0 ACSR	
28	INSTALL		O1-0 ACSR	183	Same	OH Conductor 1-0 ACSR	
28	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
29	INSTALL		A5	1	Same	1Ph Deadend	
29	INSTALL		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
29	INSTALL		M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
29	INSTALL		O1-0 ACSR	86	Same	OH Conductor 1-0 ACSR	
29	INSTALL		O1-0 ACSR	86	Same	OH Conductor 1-0 ACSR	
29	REMOVE		A5	1	Same	1Ph Deadend	
29	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
29	REMOVE		M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
29	REMOVE		O4 ACSR	85	Same	OH Conductor 4 ACSR	
29	REMOVE		O4 ACSR	85	Same	OH Conductor 4 ACSR	
30	INSTALL		A1-1	1	Same	1Ph Tangent Double Support	
30	INSTALL		G10DV	1	Same	Tran OH DV 120/240 10 1 Bush	
30	INSTALL		G135	1	Same	1Phase Transformer Pre-mounted arrester	
30	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
30	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
30	INSTALL		ZM5-15B	1	Same	18" 3 position fbrgl Standoff Bracket	
30	INSTALL (LABOR ONLY)		K18	1	Same	LO: Service Assembly Eye Bolt	
31	INSTALL		O4 ACSR	0	Same	OH Conductor 4 ACSR	
31	INSTALL		O4 ACSR	0	Same	OH Conductor 4 ACSR	
31	REMOVE		A5-1N	1	Same	1Ph Tap off of a 1Ph pole Less Neutral	
31	REMOVE		A5N	1	Same	1Ph Deadend Less Neutral	
31	REMOVE		E1-1	1	Same	Grounded Single Down Guy	
31	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
31	REMOVE		G10DV	1	Same	Tran OH DV 120/240 10 1 Bush	
31	REMOVE		G135	1	Same	1Phase Transformer Pre-mounted arrester	
31	REMOVE		J6	2	Same	Sec or N Assemb Swinging Sec clevis	
31	REMOVE		KDHC	2	Same	RO: Svc Assemb Wedge Clamp w/ drive hook	
31	REMOVE		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
31	REMOVE		M5-23.1.1	2	Same	Stirrup Hot Line #4 or #1/0	
31	REMOVE		P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
31	REMOVE		A1	1	Same	1Ph Tangent Single Support	
34	REMOVE		A5-1N	1	Same	1Ph Tap off of a 1Ph pole Less Neutral	
34	REMOVE		G135	1	Same	1Phase Transformer Pre-mounted arrester	
34	REMOVE		G15DV	1	Same	Tran OH DV 120/240 15 1 Bush	IDLE
34	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
34	REMOVE		K15	1	Same	Svc Assemb Eye Nut w/Swinging Sec clevis	
34	REMOVE		KC	2	Same	RO: Service Assembly Wedge Clamp	
34	REMOVE		M2-1	2	Same	Pole Ground Driven Ground Rod	
34	REMOVE		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
34	REMOVE		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
34	REMOVE		O2 TP	80	Same	OH Service Conductor Triplex	
34	REMOVE		O4 ACSR	204	Same	OH Conductor 4 ACSR	
34	REMOVE		O4 ACSR	204	Same	OH Conductor 4 ACSR	
34	REMOVE		O4 ACSR	97	Same	OH Conductor 4 ACSR	
34	REMOVE		O4 ACSR	97	Same	OH Conductor 4 ACSR	
34	REMOVE		P30-5	1	Same	Pole Dist 35 Ft Class 5 Wood	
35	REMOVE		K14	1	Same	Service Assembly Service Clevis	
35	REMOVE		KC	1	Same	RO: Service Assembly Wedge Clamp	
35	REMOVE		P30-5	1	Same	Pole Dist 30 Ft Class 5 Wood	
36	REMOVE		A5	1	Same	1Ph Deadend	
36	REMOVE		A5-1N	1	Same	1Ph Tap off of a 1Ph pole Less Neutral	
36	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
36	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
36	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
36	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
36	REMOVE		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
36	REMOVE		M42-13	2	Same	Deadend Assembly #336	
36	REMOVE		M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
36	REMOVE		O336 AAC	218	Same	OH Conductor 336 Aluminum	
36	REMOVE		O336 AAC	218	Same	OH Conductor 336 Aluminum	



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
36	REMOVE	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
37	REMOVE	A1-1	1	Same	1Ph Tangent Double Support	
37	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
37	REMOVE	O336 AAC	272	Same	OH Conductor 336 Aluminum	
37	REMOVE	O336 AAC	272	Same	OH Conductor 336 Aluminum	
37	REMOVE	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
38	REMOVE	A5-1N	1	Same	1Ph Tap off of a 1Ph pole Less Neutral	
38	REMOVE	A6	1	Same	1Ph Double Deadend	
38	REMOVE	E1-2	2	Same	Un-grounded Single Down Guy	
38	REMOVE	F1-3	2	Same	Anchor 3/4" x 8" rod 10k pound anchor	
38	REMOVE	J6	1	Same	Sec or N Assemb Swinging Sec clevis	
38	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
38	REMOVE	M42-11	3	Same	Deadend Assembly #4 or #1-0 ACSR	
38	REMOVE	M42-13	2	Same	Deadend Assembly #336	
38	REMOVE	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
38	REMOVE	O4 ACSR	416	Same	OH Conductor 4 ACSR	
38	REMOVE	O4 ACSR	416	Same	OH Conductor 4 ACSR	
38	REMOVE	P55-2	1	Same	Pole Dist 55 Ft Class 2 Wood	
39	REMOVE	A1-1	1	Same	1Ph Tangent Double Support	
39	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
39	REMOVE	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
39	REMOVE	P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
39	REMOVE	VM5-6	1	Same	18kV Lightning Arrestor and Jumpers	
40	REMOVE	A1	1	Same	1Ph Tangent Single Support	
40	REMOVE	A5-1	1	Same	1Ph Tap off of a 1Ph pole	
40	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
40	REMOVE	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
40	REMOVE	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
40	REMOVE	O1-0 ACSR	15	Same	OH Conductor 1-0 ACSR	
40	REMOVE	O1-0 ACSR	15	Same	OH Conductor 1-0 ACSR	
40	REMOVE	O4 ACSR	114	Same	OH Conductor 4 ACSR	
40	REMOVE	O4 ACSR	114	Same	OH Conductor 4 ACSR	
40	REMOVE	P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
42	REMOVE	A6	1	Same	1Ph Double Deadend	
42	REMOVE	E1-2	1	Same	Un-grounded Single Down Guy	
42	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
42	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
42	REMOVE	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
42	REMOVE	M42-13	2	Same	Deadend Assembly #336	
42	REMOVE	M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
42	REMOVE	O4 ACSR	367	Same	OH Conductor 4 ACSR	
42	REMOVE	O4 ACSR	367	Same	OH Conductor 4 ACSR	
42	REMOVE	P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
43	REMOVE	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
43	REMOVE	C7-7	2	Same	3Ph Deadend #795 AAC	
43	REMOVE	E1-2	2	Same	Un-grounded Single Down Guy	
43	REMOVE	E1-3	2	Same	Un-grounded Double Down Guy	
43	REMOVE	F1-3	2	Same	Anchor 3/4" x 8" rod 10k pound anchor	
43	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
43	REMOVE	F1-4	2	Same	Anchor 1" x 10" rod 16k-40k pound anchor	
43	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
43	REMOVE	M42-13	4	Same	Deadend Assembly #336	
43	REMOVE	M42-17	6	Same	Deadend Assembly #795	
43	REMOVE	M5-1	4	Same	Jumper	
43	REMOVE	M5-23.3.1	1	Same	Stirrup Hot Line #336	
43	REMOVE	M5-23.7.1	2	Same	Stirrup Hot Line #795	
43	REMOVE	M5-5	2	Same	Cross arm pin and insulator Drop in	
43	REMOVE	O336 AAC	26	Same	OH Conductor 336 Aluminum	
43	REMOVE	O336 AAC	26	Same	OH Conductor 336 Aluminum	
43	REMOVE	O336 AAC	36	Same	OH Conductor 336 Aluminum	
43	REMOVE	O336 AAC	36	Same	OH Conductor 336 Aluminum	
43	REMOVE	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
43	REMOVE (LABOR ONLY)	M3-10.50E	1	Same	Recloser 50 AMP E	REUSE
45	INSTALL	C8	1	Same	3Ph Double Deadend or Medium Angle	
45	INSTALL	E1-2	4	Same	Un-grounded Single Down Guy	
45	INSTALL	E1-3	2	Same	Un-grounded Double Down Guy	
45	INSTALL	F1-4	2	Same	Anchor 1" x 10" rod 16k-40k pound anch	
45	REMOVE	C2-2	1	Same	3Ph Small Angle #1-0 ACSR #336 or 795 AA	
45	REMOVE	E1-2	1	Same	Un-grounded Single Down Guy	
45	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
45	REMOVE	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
47	REMOVE	KDHC	1	Same	RO: Svc Assemb Wedge Clamp w/ drive hook	
47	REMOVE	O2 TP	34	Same	OH Service Conductor Triplex	
47	REMOVE	P30-5	1	Same	Pole Dist 30 Ft Class 5 Wood	
47	REMOVE	P30-6	1	Same	RO: Pole Dist 30 Ft Class 6 Wood	
47	REMOVE (LABOR ONLY)	M8-10	1	Same	LO: Meter Loop Underground Service	
48	INSTALL	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	MOVE GUY CLOSER TO POLE
48	REMOVE	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
49	INSTALL	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	MOVE GUY CLOSER TO POLE
49	INSTALL (LABOR ONLY)	E1-2	1	Same	Un-grounded Single Down Guy	
49	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
49	REMOVE (LABOR ONLY)	E1-2	1	Same	Un-grounded Single Down Guy	
50	INSTALL	A5-3N	2	Same	1Ph Tap off an Existing Bolt Less Neutra	
50	INSTALL	A5-4	1	Same	1Ph Tap off an Existing Bolt with Ridge	
50	INSTALL	C7-7	1	Same	3Ph Deadend #795 AAC	
50	INSTALL	E1-2	2	Same	Un-grounded Single Down Guy	
50	INSTALL	E1-3	1	Same	Un-grounded Double Down Guy	
50	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
50	INSTALL	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
50	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
50	INSTALL	M42-13	2	Same	Deadend Assembly #336	
50	INSTALL	M42-17	6	Same	Deadend Assembly #795	
50	INSTALL	M5-5	2	Same	Cross arm pin and insulator Drop in	
50	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
51	INSTALL	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
51	INSTALL	A5-3N	2	Same	1Ph Tap off an Existing Bolt Less Neutra	
51	INSTALL	A5-4	1	Same	1Ph Tap off an Existing Bolt with Ridge	
51	INSTALL	C7-7	2	Same	3Ph Deadend #795 AAC	
51	INSTALL	E1-2	2	Same	Un-grounded Single Down Guy	
51	INSTALL	E1-3	1	Same	Un-grounded Double Down Guy	

*** ALL NEW POLES WILL BE A MINIMUM 4" IN DIAMETER.
*** CHANGE OF EXISTING 3 PHASE CONDUCTOR TO 10 795 AAC PRIMARY
*** EXISTING POLES ARE LOCATED 18" WITHIN TIGHT R.O.W.
*** PROFILE OF 3 PHASE ELECTRIC CROSSINGS SHOWN ON DWG.
*** NO CHANGE OF ROUTE OF EXISTING 3 PHASE ELECTRIC LINE.
*** PEC CONNECTION POLICY SHALL BE FOLLOWED FOR ALL
INSTALLATION OF ELECTRIC EQUIPMENT IN SCOPE OF PROJECT.
*** ALL INSPECTIONS SHALL BE PERFORMED BY PEC.
*** ANY CHANGES IN SCOPE OF PROJECT SHALL BE COORDINATED
WITH AND APPROVED BY PEC BEFORE WORK IS DONE.
*** CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN FOR ALL
LINE LOCATES BEFORE ANY DIGGING IS INITIATED IN SCOPE OF
PROJECT.
*** ALL REQUIRED CUSTOMER OUTAGES FOR TRANSFER OR
INSTALLATION OF NEW EXISTING ELECTRIC EQUIPMENT IN SCOPE OF
PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC
BEFORE DISCONNECTING CUSTOMER ELECTRIC POWER SERVICE.

*** THE QUANTITIES SHOWN ON THE PLANS AND
THE BID DOCUMENTS ARE ESTIMATED
QUANTITIES AND BASED ON THE PLAN SET AND
TO BE USED FOR BIDDING PURPOSE ONLY. THE
CONTRACTOR IS RESPONSIBLE FOR
DETERMINING ACTUAL QUANTITIES. THE
CONTRACTOR SHALL BE RESPONSIBLE TO
RESOLVE ANY PERCEIVED DISCREPANCIES IN
THE QUANTITIES WITH THE OWNER PRIOR
BEGINNING ANY CONSTRUCTION WORK.

PRELIMINARY
NOT FOR CONSTRUCTION



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Function	Unit	Quantity	Work Crew	Description	Comments
51	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
51	INSTALL	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
51	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
51	INSTALL	M3-1.1	1	Same	Fused Loadbreak Cutout	
51	INSTALL	M3-1.1	1	Same	Fused Loadbreak Cutout	
51	INSTALL	M3-1.1	1	Same	Fused Loadbreak Cutout	
51	INSTALL	M42-11	6	Same	Deadend Assembly #4 or #1-0 ACSR	
51	INSTALL	M42-13	2	Same	Deadend Assembly #336	
51	INSTALL	M42-17	6	Same	Deadend Assembly #795	
51	INSTALL	M5-23.7.1	4	Same	Stirrup Hot Line #795	
51	INSTALL	M5-5	2	Same	Cross arm pin and insulator Drop in	
51	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
51	REMOVE	A5-2N	1	Same	1Ph Tap off of a Multi-Phase pole Less N	
51	REMOVE	C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
51	REMOVE	C1-7	1	Same	3Ph Deadend #795 AAC	
51	REMOVE	F1-2	2	Same	Un-grounded Single Down Guy	
51	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
51	REMOVE	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
51	REMOVE	J6	1	Same	Sec or N Assemb Swinging Sec clevis	
51	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
51	REMOVE	M3-2	1	Same	Fused Cutout & Arrester Combination	
51	REMOVE	M3-2.1	1	Same	Fused Loadbreak Cutout & Arrester Combin	
51	REMOVE	M3-2.1	1	Same	Fused Loadbreak Cutout & Arrester Combin	
51	REMOVE	M3-2.1	1	Same	Fused Loadbreak Cutout & Arrester Combin	
51	REMOVE	M42-11	5	Same	Deadend Assembly #4 or #1-0 ACSR	
51	REMOVE	M5-23.7.1	3	Same	Stirrup Hot Line #795	
51	REMOVE	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
52	INSTALL	A6	1	Same	1Ph Double Deadend	
52	INSTALL	E1-2	1	Same	Un-grounded Single Down Guy	
52	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
52	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
52	INSTALL	M3-1	1	Same	Fused Cutout	
52	INSTALL	M42-11	3	Same	Deadend Assembly #4 or #1-0 ACSR	
52	INSTALL	M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
52	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
52	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
52	INSTALL	P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
52	INSTALL	ZM5-15B	1	Same	18" 3 position flange Standoff Bracket	
53	INSTALL	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
53	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
53	INSTALL	M3-1	1	Same	Fused Cutout	
53	INSTALL	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
53	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
53	INSTALL	M5-23.7.1	1	Same	Stirrup Hot Line #795	
53	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
53	INSTALL	O336 AAC	170	Same	OH Conductor 336 Aluminum	
53	INSTALL	O795 AAC	510	Same	OH Conductor 795 AAC	
53	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
53	INSTALL	ZC1-1B	1	Same	3PH TANGENT DBL SUPP NARROW CONSTR	
53	INSTALL	ZM5-15B	1	Same	18" 3 position flange Standoff Bracket	
54	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
54	INSTALL	O336 AAC	186	Same	OH Conductor 336 Aluminum	
54	INSTALL	O795 AAC	558	Same	OH Conductor 795 AAC	
54	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
54	INSTALL	ZC1-1B	1	Same	3PH TANGENT DBL SUPP NARROW CONSTR	
55	INSTALL	A6	1	Same	1Ph Double Deadend	
55	INSTALL	E1-2	1	Same	Un-grounded Single Down Guy	
55	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
55	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
55	INSTALL	M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR	
55	INSTALL	M5-2	1	Same	Pole top pin and insulator	
55	INSTALL	O4 ACSR	170	Same	OH Conductor 4 ACSR	
55	INSTALL	O4 ACSR	170	Same	OH Conductor 4 ACSR	
55	INSTALL	P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
55	INSTALL	G135	1	Same	1Phase Transformer Pre-mounted arrester	
56	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
56	INSTALL	O336 AAC	186	Same	OH Conductor 336 Aluminum	
56	INSTALL	O795 AAC	558	Same	OH Conductor 795 AAC	
56	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
56	INSTALL	ZC1-1B	1	Same	3PH TANGENT DBL SUPP NARROW CONSTR	
56	INSTALL	ZM5-15B	1	Same	18" 3 position flange Standoff Bracket	
56	INSTALL (LABOR ONLY)	G10DV	1	Same	Tran OH DV 120/240 10 1 Bush	
56	INSTALL (LABOR ONLY)	L2-2.1	1	Same	Security Light 100W High Pressure Sodium	
56	REMOVE	KDHC	1	Same	RO: Svc Assemb Wedge Clamp w/ drive hook	
56	REMOVE	M2-1	1	Same	Pole Ground Driven Ground Rod	
56	REMOVE	O6 DP	96	Same	OH Service Conductor 6 Duplex	
56	REMOVE	P30-5	1	Same	Pole Dist 30 Ft Class 5 Wood	
56	REMOVE (LABOR ONLY)	L2-2.1	1	Same	Security Light 100W High Pressure Sodium	
57	INSTALL	A5-3	1	Same	1Ph Tap off an Existing Bolt	
57	INSTALL	C7-7	1	Same	3Ph Deadend #795 AAC	
57	INSTALL	E1-2	2	Same	Un-grounded Single Down Guy	
57	INSTALL	E1-3	1	Same	Un-grounded Double Down Guy	
57	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
57	INSTALL	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
57	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
57	INSTALL	M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
57	INSTALL	M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
57	INSTALL	M42-13	2	Same	Deadend Assembly #336	
57	INSTALL	M42-17	6	Same	Deadend Assembly #795	
57	INSTALL	M5-23.7.1	1	Same	Stirrup Hot Line #795	
57	INSTALL	M5-5	1	Same	Cross arm pin and insulator Drop in	
57	INSTALL	O336 AAC	235	Same	OH Conductor 336 Aluminum	
57	INSTALL	O795 AAC	704	Same	OH Conductor 795 AAC	
57	INSTALL	P56-H6	1	Same	Pole Dist 55 Ft Class H6 Wood	Concrete
57	INSTALL	ZC7B	1	Same	3Ph Deadend Narrow Constr	
57	INSTALL (LABOR ONLY)	M3-10	1	Same	Single Phase OCR W/Bypass	
57	INSTALL (LABOR ONLY)	M3-10.50E	1	Same	Recloser 50 AMP E	
58	INSTALL	A5-3	1	Same	1Ph Tap off an Existing Bolt	
58	INSTALL	C7-7	2	Same	3Ph Deadend #795 AAC	
58	INSTALL	M2-1	1	Same	Pole Ground Driven Ground Rod	



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Function	Unit	Quantity	Work Crew	Description	Comments
58	INSTALL	M3-1	1	Same	Fused Cutout	
58	INSTALL	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
58	INSTALL	M42-13	2	Same	Deadend Assembly #336	
58	INSTALL	M42-17	6	Same	Deadend Assembly #795	
58	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
58	INSTALL	M5-23.7.1	1	Same	Stirrup Hot Line #795	
58	INSTALL	M5-5	2	Same	Cross arm pin and insulator Drop in	
58	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
58	INSTALL	O336 AAC	114	Same	OH Conductor 336 Aluminum	
58	INSTALL	O4 ACSR	65	Same	OH Conductor 4 ACSR	
58	INSTALL	O4 ACSR	65	Same	OH Conductor 4 ACSR	
58	INSTALL	O795 AAC	343	Same	OH Conductor 795 AAC	
58	INSTALL	P55C	1	Same	Pole Dist 55 Ft Conc Engineer Self-Supp	H9 EQUIVALENT
59	INSTALL	A4	1	Same	1Ph Large Angle	
59	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
59	INSTALL	M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR	
59	INSTALL	O4 ACSR	187	Same	OH Conductor 4 ACSR	
59	INSTALL	O4 ACSR	187	Same	OH Conductor 4 ACSR	
59	INSTALL	P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
59	INSTALL	POLE SET -	1	Same	Pole Set - 7.5 cubic ft	
59	REMOVE	O336 AAC	191	Same	OH Conductor 336 Aluminum	
59	REMOVE	O336 AAC	191	Same	OH Conductor 336 Aluminum	
60	INSTALL	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
60	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
60	REMOVE	M42-13	2	Same	Deadend Assembly #336	
60	REMOVE	M5-23.3.1	1	Same	Stirrup Hot Line #336	
61	INSTALL	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
61	INSTALL	C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
61	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
61	INSTALL	M42-11	1	Same	Fused Cutout	
61	INSTALL	M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
61	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
61	INSTALL	M5-23.7.1	4	Same	Stirrup Hot Line #795	
61	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
61	INSTALL	M5-61.3	1	Same	Three Phase Off Pole Arrester	
61	INSTALL	O336 AAC	114	Same	OH Conductor 336 Aluminum	
61	INSTALL	O4 ACSR	9	Same	OH Conductor 4 ACSR	
61	INSTALL	O4 ACSR	9	Same	OH Conductor 4 ACSR	
61	INSTALL	O4 ACSR	105	Same	OH Conductor 4 ACSR	
61	INSTALL	O4 ACSR	105	Same	OH Conductor 4 ACSR	
61	INSTALL	O795 AAC	341	Same	OH Conductor 795 AAC	
61	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
61	INSTALL	POLE SET -	1	Same	Pole Set - 7.5 cubic ft	
61	REMOVE	A6	1	Same	1Ph Double Deadend	
61	REMOVE	E1-2	1	Same	Un-grounded Single Down Guy	
61	REMOVE	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
61	REMOVE	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
61	REMOVE	M42-13	4	Same	Deadend Assembly #336	
61	REMOVE	M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
61	REMOVE	O336 AAC	86	Same	OH Conductor 336 Aluminum	
61	REMOVE	O336 AAC	86	Same	OH Conductor 336 Aluminum	
61	REMOVE	O336 AAC	40	Same	OH Conductor 336 Aluminum	
61	REMOVE	O336 AAC	40	Same	OH Conductor 336 Aluminum	
61	REMOVE	P45-3	1	Same	Pole Dist 45 Ft Class 3 Wood	
62	INSTALL	C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
62	INSTALL	G135	1	Same	1Phase Transformer Pre-mounted arrester	
62	INSTALL	G250V	1	Same	Tran OH DV 120/240 25 1 Bush	
62	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
62	INSTALL	M5-23.7.1	1	Same	Stirrup Hot Line #795	
62	INSTALL	O336 AAC	219	Same	OH Conductor 336 Aluminum	
62	INSTALL	O795 AAC	657	Same	OH Conductor 795 AAC	
62	INSTALL	P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
62	INSTALL	V625	1	Same	Tran OH 14.4 120/240 25 1 Bush	
62	INSTALL (LABOR ONLY)	K16	1	Same	LOI Service Assembly Eye Bolt	
63	INSTALL	A5-3N	2	Same	1Ph Tap off an Existing Bolt Less Neutra	
63	INSTALL	A5-4	1	Same	1Ph Tap off an Existing Bolt with Ridge	
63	INSTALL	C7-7	1	Same	3Ph Deadend #795 AAC	
63	INSTALL	E1-2	2	Same	Un-grounded Single Down Guy	
63	INSTALL	E1-3	1	Same	Un-grounded Double Down Guy	
63	INSTALL	F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
63	INSTALL	F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
63	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
63	INSTALL	M42-13	2	Same	Deadend Assembly #336	
63	INSTALL	M42-17	6	Same	Deadend Assembly #795	
63	INSTALL	M5-23.7.1	3	Same	Stirrup Hot Line #795	
63	INSTALL	M5-61.3	1	Same	Three Phase Off Pole Arrester	
63	INSTALL	O336 AAC	221	Same	OH Conductor 336 Aluminum	
63	INSTALL	O795 AAC	664	Same	OH Conductor 795 AAC	
63	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
64	INSTALL	C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
64	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
64	INSTALL	O336 AAC	36	Same	OH Conductor 336 Aluminum	
64	INSTALL	O795 AAC	108	Same	OH Conductor 795 AAC	
64	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
64	INSTALL	POLE SET -	1	Same	Pole Set - 7.5 cubic ft	
65	INSTALL	A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
65	INSTALL	C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
65	INSTALL	M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
65	INSTALL	M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
65	INSTALL	M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
65	INSTALL	M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
65	INSTALL	M5-23.7.1	2	Same	Stirrup Hot Line #795	
65	INSTALL	M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrester	
65	INSTALL	O336 AAC	70	Same	OH Conductor 336 Aluminum	
65	INSTALL	O795 AAC	209	Same	OH Conductor 795 AAC	
65	INSTALL	P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
65	INSTALL	POLE SET -	1	Same	Pole Set - 7.5 cubic ft	
65	INSTALL (LABOR ONLY)	M3-10	1	Same	Single Phase OCR W/Bypass	
65	INSTALL (LABOR ONLY)	M3-10.50E	1	Same	Recloser 50 AMP E	
65	REMOVE	A1	1	Same	1Ph Tangent Single Support	

*** ALL NEW POLES WILL BE A MINIMUM 40' IN HEIGHT
*** CHANGE OF EXISTING 3-PHASE CONDUCTOR TO 795 AAC PRIMARY
*** EXISTING POLES ARE LOCATED 10' WITHIN 1 FOOT R.O.W.
*** PROFILE OF 3-PHASE ELECTRIC CROSSINGS SHOWN ON DWG.
*** NO CHANGE OF ROUTE OF EXISTING 3-PHASE ELECTRIC LINE
*** PEC CONSTRUCTION POLICY SHALL BE FOLLOWED FOR ALL
INSTALLATION OF ELECTRIC EQUIPMENT IN SCOPE OF PROJECT
*** ALL INSPECTIONS SHALL BE PERFORMED BY PEC
*** ANY CHANGES IN SCOPE OF PROJECT SHALL BE COORDINATED
WITH AND APPROVED BY PEC BEFORE WORK IS DONE
*** CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN FOR ALL
UNIT LOCATES BEFORE ANY TRIGGERING IS INITIATED IN SCOPE OF
PROJECT
*** ALL REQUIRED CUSTOMER OUTAGES FOR TRANSFER OR
INSTALLATION OF NEW EXISTING ELECTRIC EQUIPMENT IN SCOPE OF
PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC
BEFORE DISCONNECTING CUSTOMER ELECTRIC POWDER SERVICE

*** THE QUANTITIES SHOWN ON THE PLANS AND THE
BID DOCUMENTS ARE ESTIMATED QUANTITIES AND
BASED ON THE PLAN SET AND TO BE USED FOR
BIDDING PURPOSE ONLY. THE CONTRACTOR IS
RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES.
THE CONTRACTOR SHALL BE RESPONSIBLE TO
RESOLVE ANY PERCEIVED DISCREPANCIES IN THE
QUANT



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
65	REMOVE		A5-1N	1	Same	1Ph Tap off of a 1Ph pole Less Neutral	
65	REMOVE		E1-1	1	Same	Grounded Single Down Guy	
65	REMOVE		F1-3	1	Same	Anchor 3/4" x 8' rod 10k pound anchor	
65	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
65	REMOVE		M2-1	1	Same	Pole Ground Driven Ground Rod	
65	REMOVE		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
65	REMOVE		M5-23.1.1	2	Same	Stirrup Hot Line #4 or #1/0	
65	REMOVE		O4 ACSR	161	Same	OH Conductor 4 ACSR	
65	REMOVE		O4 ACSR	161	Same	OH Conductor 4 ACSR	
65	REMOVE		O4 ACSR	15	Same	OH Conductor 4 ACSR	
65	REMOVE		O4 ACSR	15	Same	OH Conductor 4 ACSR	
65	REMOVE		O4 ACSR	23	Same	OH Conductor 4 ACSR	
65	REMOVE		O4 ACSR	23	Same	OH Conductor 4 ACSR	
65	REMOVE		P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
65	REMOVE (LABOR ONLY)		M3-10.50E	1	Same	Recloser 50 AMP E	
66	INSTALL		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
66	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
66	INSTALL		O336 AAC	49	Same	OH Conductor 336 Aluminum	
66	INSTALL		O795 AAC	148	Same	OH Conductor 795 AAC	
66	INSTALL		P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
66	INSTALL		POLE SET -	1	Same	Pole Set - 7.5 cubic ft	
67	INSTALL		A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
67	INSTALL		C7-7	1	Same	3Ph Deadend #795 AAC	
67	INSTALL		C7X	1	Same	3 Ph Tap off of a 3 Ph Deadend	
67	INSTALL		E1-2	2	Same	Un-grounded Single Down Guy	
67	INSTALL		E1-3	1	Same	Un-grounded Double Down Guy	
67	INSTALL		F1-3	2	Same	Anchor 3/4" x 8' rod 10k pound anchor	
67	INSTALL		F1-4	1	Same	Anchor 1" x 10' rod 16k-40k pound anch	
67	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
67	INSTALL		M3-1	1	Same	Fused Cutout	
67	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
67	INSTALL		M42-13	2	Same	Deadend Assembly #336	
67	INSTALL		M42-17	6	Same	Deadend Assembly #795	
67	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
67	INSTALL		M5-23.7.1	4	Same	Stirrup Hot Line #795	
67	INSTALL		M5-61.1	1	Same	Single Phase #4, 1/0 Off Pole Arrestor	
67	INSTALL		M5-61.3	1	Same	Three Phase Off Pole Arrestor	
67	INSTALL		O1-0 ACSR	117	Same	OH Conductor 1-0 ACSR	
67	INSTALL		O1-0 ACSR	117	Same	OH Conductor 1-0 ACSR	
67	INSTALL		O336 AAC	51	Same	OH Conductor 336 Aluminum	
67	INSTALL		O795 AAC	154	Same	OH Conductor 795 AAC	
67	INSTALL		P50-1	1	Same	Pole Dist 50 Ft Class 1 Wood	
68	INSTALL		A6	1	Same	1Ph Double Deadend	
68	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
68	INSTALL		F1-3	1	Same	Anchor 3/4" x 8' rod 10k pound anchor	
68	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
68	INSTALL		M42-11	4	Same	Deadend Assembly #4 or #1-0 ACSR	
68	INSTALL		M5-2	1	Same	Pole top pin and insulator	
68	INSTALL		P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
69	INSTALL		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
69	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
69	INSTALL		O336 AAC	211	Same	OH Conductor 336 Aluminum	
69	INSTALL		O336 AAC	210	Same	OH Conductor 336 Aluminum	
69	INSTALL		O795 AAC	630	Same	OH Conductor 795 AAC	
69	INSTALL		O795 AAC	632	Same	OH Conductor 795 AAC	
69	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
70	INSTALL		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
70	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
70	INSTALL		O336 AAC	209	Same	OH Conductor 336 Aluminum	
70	INSTALL		O795 AAC	628	Same	OH Conductor 795 AAC	
70	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
71	INSTALL		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
71	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
71	INSTALL		M5-23.7.1	3	Same	Stirrup Hot Line #795	
71	INSTALL		M5-61.3	1	Same	Three Phase Off Pole Arrestor	
71	INSTALL		O336 AAC	200	Same	OH Conductor 336 Aluminum	
71	INSTALL		O795 AAC	600	Same	OH Conductor 795 AAC	
71	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
72	INSTALL		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
72	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
72	INSTALL		F1-3	1	Same	Anchor 3/4" x 8' rod 10k pound anchor	
72	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
72	INSTALL		O336 AAC	144	Same	OH Conductor 336 Aluminum	
72	INSTALL		O795 AAC	432	Same	OH Conductor 795 AAC	
72	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
73	INSTALL		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
73	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
73	INSTALL		F1-3	1	Same	Anchor 3/4" x 8' rod 10k pound anchor	
73	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
73	INSTALL		O336 AAC	169	Same	OH Conductor 336 Aluminum	
73	INSTALL		O795 AAC	508	Same	OH Conductor 795 AAC	
73	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
74	INSTALL		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
74	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
74	INSTALL		F1-3	1	Same	Anchor 3/4" x 8' rod 10k pound anchor	
74	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
74	INSTALL		M5-23.3.1	3	Same	Stirrup Hot Line #336	
74	INSTALL		M5-23.7.1	3	Same	Stirrup Hot Line #795	
74	INSTALL		M5-61.3	1	Same	Three Phase Off Pole Arrestor	
74	INSTALL		O336 AAC	170	Same	OH Conductor 336 Aluminum	
74	INSTALL		O795 AAC	509	Same	OH Conductor 795 AAC	
74	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
75	INSTALL		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	
75	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
75	INSTALL		F1-3	1	Same	Anchor 3/4" x 8' rod 10k pound anchor	
75	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
75	INSTALL		O336 AAC	160	Same	OH Conductor 336 Aluminum	
75	INSTALL		O795 AAC	481	Same	OH Conductor 795 AAC	
75	INSTALL		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
76	INSTALL		C1-3	1	Same	3Ph Tangent Double Support with Saddle P	



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
76	INSTALL	E1-2	1	Same		Un-grounded Single Down Guy	
76	INSTALL	F1-3	1	Same		Anchor 3/4" x 8' rod 10k pound anchor	
76	INSTALL	M2-2	1	Same		Pole Grnd Butt Plate NESC "Made Ground"	
76	INSTALL	O336 AAC	120	Same		OH Conductor 336 Aluminum	
76	INSTALL	O795 AAC	359	Same		OH Conductor 795 AAC	
76	INSTALL	P50-3	1	Same		Pole Dist 50 Ft Class 3 Wood	
77	INSTALL	C8	1	Same		3Ph Double Deadend or Medium Angle	
77	INSTALL	E1-2	1	Same		Un-grounded Single Down Guy	
77	INSTALL	E1-3	1	Same		Un-grounded Double Down Guy	
77	INSTALL	F1-3	1	Same		Anchor 3/4" x 8' rod 10k pound anchor	
77	INSTALL	F1-4	1	Same		Anchor 1" x 10' rod 16k-40k pound anch	
77	INSTALL	M2-2.2	1	Same		Grounding Assembly Large Copper Plate W/	
77	INSTALL	M3-15E	1	Same		ABS Extendo Stick Operated 900a	
77	INSTALL	M42-13	2	Same		Deadend Assembly #336	
77	INSTALL	M42-17	6	Same		Deadend Assembly #795	
77	INSTALL	O336 AAC	7	Same		OH Conductor 336 Aluminum	
77	INSTALL	O336 AAC	54	Same		OH Conductor 336 Aluminum	
77	INSTALL	O795 AAC	161	Same		OH Conductor 795 AAC	
77	INSTALL	O795 AAC	21	Same		OH Conductor 795 AAC	
77	INSTALL	P50-1	1	Same		Pole Dist 50 Ft Class 1 Wood	
78	INSTALL	A5-3	1	Same		1Ph Tap off an Existing Bolt	
78	INSTALL	A5-3N	2	Same		1Ph Tap off an Existing Bolt Less Neutra	
78	INSTALL	C7-7N	2	Same		3Ph Deadend #795 AAC Less Neutral	
78	INSTALL	C7-8	2	Same		3Ph Deadend 3-cond #795 AAC 10 Ft arms	
78	INSTALL	E1-2	2	Same		Un-grounded Single Down Guy	
78	INSTALL	E1-3	4	Same		Un-grounded Double Down Guy	
78	INSTALL	F1-3	2	Same		Anchor 3/4" x 8' rod 10k pound anchor	
78	INSTALL	F1-4	4	Same		Anchor 1" x 10' rod 16k-40k pound anch	
78	INSTALL	M2-2.2	1	Same		Grounding Assembly Large Copper Plate W/	
78	INSTALL	M42-13	1	Same		Deadend Assembly #336	
78	INSTALL	M42-17	20	Same		Deadend Assembly #795	
78	INSTALL	M5-5	7	Same		Cross arm pin and insulator Drop in	
78	INSTALL	O795 AAC	270	Same		OH Conductor 795 AAC	
78	INSTALL	O795 AAC	811	Same		OH Conductor 795 AAC	
78	INSTALL	O795 AAC	891	Same		OH Conductor 795 AAC	
78	INSTALL	P60-H3	1	Same		Pole Dist 60 Ft Class H3 Wood	
79	INSTALL	A5-2	1	Same		1Ph Tap off of a Multi-Phase pole	
79	INSTALL	C7-7N	2	Same		3Ph Deadend #795 AAC Less Neutral	
79	INSTALL	C7-8	2	Same		3Ph Deadend 3-cond #795 AAC 10 Ft arms	
79	INSTALL	E1-2	2	Same		Un-grounded Single Down Guy	
79	INSTALL	E1-3	4	Same		Un-grounded Double Down Guy	
79	INSTALL	F1-3	2	Same		Anchor 3/4" x 8' rod 10k pound anchor	
79	INSTALL	F1-4	4	Same		Anchor 1" x 10' rod 16k-40k pound anch	
79	INSTALL	M2-2.2	1	Same		Grounding Assembly Large Copper Plate W/	
79	INSTALL	M42-11	2	Same		Deadend Assembly #4 or #1-0 ACSR	
79	INSTALL	M42-17	14	Same		Deadend Assembly #795	
79	INSTALL	M5-23.7.1	1	Same		Stirrup Hot Line #795	
79	INSTALL	M5-5	5	Same		Cross arm pin and insulator Drop in	
79	INSTALL	O795 AAC	183	Same		OH Conductor 795 AAC	
79	INSTALL	O795 AAC	549	Same		OH Conductor 795 AAC	
79	INSTALL	O795 AAC	600	Same		OH Conductor 795 AAC	
79	INSTALL	P65-H3	1	Same		Pole Dist 65 Ft Class H3 Wood	
80	INSTALL	A5-3N	3	Same		1Ph Tap off an Existing Bolt Less Neutra	
80	INSTALL	C7-7N	1	Same		3Ph Deadend #795 AAC Less Neutral	
80	INSTALL	C7-9	1	Same		3Ph Deadend 4-cond #795 AAC 10 Ft arms	
80	INSTALL	C7X	1	Same		3 Ph Tap off of a 3 Ph Deadend	
80	INSTALL	E1-2	1	Same		Un-grounded Single Down Guy	
80	INSTALL	E1-3	2	Same		Un-grounded Double Down Guy	
80	INSTALL	F1-3	1	Same		Anchor 3/4" x 8' rod 10k pound anchor	
80	INSTALL	F1-4	2	Same		Anchor 1" x 10' rod 16k-40k pound anch	
80	INSTALL	M2-2.2	1	Same		Grounding Assembly Large Copper Plate W/	
80	INSTALL	M42-17	14	Same		Deadend Assembly #795	
80	INSTALL	M5-23.7.1	6	Same		Stirrup Hot Line #795	
80	INSTALL	M5-5	3	Same		Cross arm pin and insulator Drop in	
80	INSTALL	O795 AAC	660	Same		OH Conductor 795 AAC	
80	INSTALL	O795 AAC	221	Same		OH Conductor 795 AAC	
80	INSTALL	O795 AAC	562	Same		OH Conductor 795 AAC	
80	INSTALL	P55-1	1	Same		Pole Dist 55 Ft Class 1 Wood	
80	INSTALL	VM5-6	6	Same		18kV Lightning Arrestor and Jumpers	
80	INSTALL	ZM5-16B	2	Same		Bracket Equipment Mount FG 3Ph	
81	INSTALL	C1-3N	1	Same		3Ph Tangent Double Support with Saddle P	
81	INSTALL	C9-2	1	Same		3Ph Tangent or Small Angle Dbl Support a	
81	INSTALL	M2-2.2	1	Same		Grounding Assembly Large Copper Plate W/	
81	INSTALL	O795 AAC	210	Same		OH Conductor 795 AAC	
81	INSTALL	O795 AAC	631	Same		OH Conductor 795 AAC	
81	INSTALL	O795 AAC	627	Same		OH Conductor 795 AAC	
81	INSTALL	P55-1	1	Same		Pole Dist 55 Ft Class 1 Wood	
82	INSTALL	A5-3N	5	Same		1Ph Tap off an Existing Bolt Less Neutra	
82	INSTALL	A5-4	2	Same		1Ph Tap off an Existing Bolt with Ridge	
82	INSTALL	M42-17	7	Same		Deadend Assembly #795	
82	INSTALL	M5-5	5	Same		Cross arm pin and insulator Drop in	
83	INSTALL	A4	1	Same		1Ph Large Angle	
83	INSTALL	E1-2	2	Same		Un-grounded Single Down Guy	
83	INSTALL	F1-3	2	Same		Anchor 3/4" x 8' rod 10k pound anchor	
83	INSTALL	M2-2	1	Same		Pole Grnd Butt Plate NESC "Made Ground"	
83	INSTALL	M42-11	4	Same		Deadend Assembly #4 or #1-0 ACSR	
83	INSTALL	M5-23.1.1	2	Same		Stirrup Hot Line #4 or #1/0	
83	INSTALL	O4 ACSR	81	Same		OH Conductor 4 ACSR	
83	INSTALL	O4 ACSR	81	Same		OH Conductor 4 ACSR	
83	INSTALL	P40-5	1	Same		Pole Dist 40 Ft Class 5 Wood	
83	INSTALL	ZM5-15B	1	Same		18" 3 position fbrglr Standoff Bracket	
84	REMOVE	A1-1	1	Same		1Ph Tangent Double Support	
84	REMOVE	M2-1	1	Same		Pole Ground Driven Ground Rod	
84	REMOVE	O4 ACSR	222	Same		OH Conductor 4 ACSR	
84	REMOVE	O4 ACSR	222	Same		OH Conductor 4 ACSR	
84	REMOVE	P40-5	1	Same		Pole Dist 40 Ft Class 5 Wood	
85	REMOVE	KOHC	1	Same		RO: Svc Assemb Wedge Clamp w/ drive hook	
85	REMOVE	M2-2	1	Same		Pole Grnd Butt Plate NESC "Made Ground"	
85	REMOVE	P35-4	1	Same		Pole Dist 35 Ft Class 4 Wood	
86	INSTALL	O4 ACSR	52	Same		OH Conductor 4 ACSR	

- ** ALL NEW POLES WILL BE A MINIMUM 45' IN HEIGHT
- ** CHANGE OF EXISTING 3 PHASE CONDUCTOR TO 795 AAC (PRELIM)
- ** EXISTING POLES ARE LOCATED 18" WITHIN 1' DIRT R.O.W.
- ** PROFILE OF 3 PHASE ELECTRIC CROSSINGS SHOWN ON DWG.
- ** NO CHANGE OF ROUTE OF EXISTING 3 PHASE ELECTRIC LINE
- ** PEC CONNECTION POLICY SHALL BE FOLLOWED FOR ALL INSTALLATION OF ELECTRIC EQUIPMENT IN SCOPE OF PROJECT
- ** ALL INSPECTIONS SHALL BE PERFORMED BY PEC
- ** ANY CHANGES IN SCOPE OF PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC BEFORE WORK IS DONE.
- ** CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN FOR ALL LINE LOCATES BEFORE ANY DIGGING IS INITIATED IN SCOPE OF PROJECT
- ** ALL REQUIRED CUSTOMER OUTAGES FOR TRANSFER OR INSTALLATION OF NEW EXISTING ELECTRIC EQUIPMENT IN SCOPE OF PROJECT SHALL BE COORDINATED WITH AND APPROVED BY PEC BEFORE DISCONNECTING CUSTOMER ELECTRIC POWER SERVICE

*** THE QUANTITIES SHOWN ON THE PLANS AND THE BID DOCUMENTS ARE ESTIMATED QUANTITIES AND BASED ON THE PLAN SET AND TO BE USED FOR BIDDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE ANY PERCEIVED DISCREPANCIES IN THE QUANTITIES WITH THE OWNER PRIOR BEGINNING ANY CONSTRUCTION WORK.

PRELIMINARY
NOT FOR CONSTRUCTION



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
86	INSTALL		O4 ACSR	52	Same	OH Conductor 4 ACSR	
86	REMOVE		A2	1	Same	1Ph Small Angle	
86	REMOVE		E1-1	1	Same	Grounded Single Down Guy	
86	REMOVE		E3-10	1	Same	Guy Marker	
86	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
86	REMOVE		G10DV	1	Same	Tran OH DV 120/240 10 1 Bush	
86	REMOVE		KDHC	1	Same	1Phase Transformer Pre-mounted arrester	
86	REMOVE		M2-1	1	Same	RO: Svc Assemb Wedge Clamp w/ drive hook	
86	REMOVE		M5-23.1.1	1	Same	Pole Ground Driven Ground Rod	
86	REMOVE		O1-0 TP	87	Same	OH Service Conductor 1-0 Triplex	
86	REMOVE		P40-5	1	Same	Pole Dist 40 Ft Class 5 Wood	
88	REMOVE		A1	1	Same	1Ph Tangent Single Support	
88	REMOVE		M2-1	1	Same	Pole Ground Driven Ground Rod	
88	REMOVE		O4 ACSR	522	Same	OH Conductor 4 ACSR	
88	REMOVE		O4 ACSR	522	Same	OH Conductor 4 ACSR	
88	REMOVE		P40-4	1	Same	Pole Dist 40 Ft Class 4 Wood	
89	REMOVE		A2	1	Same	1Ph Small Angle	
89	REMOVE		E1-1	1	Same	Grounded Single Down Guy	
89	REMOVE		E3-10	1	Same	Guy Marker	
89	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
89	REMOVE		M2-1	2	Same	Pole Ground Driven Ground Rod	
89	REMOVE		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
89	REMOVE		O4 ACSR	552	Same	OH Conductor 4 ACSR	
89	REMOVE		O4 ACSR	552	Same	OH Conductor 4 ACSR	
89	REMOVE		O4 ACSR	481	Same	OH Conductor 4 ACSR	
89	REMOVE		O4 ACSR	481	Same	OH Conductor 4 ACSR	
89	REMOVE		P40-4	1	Same	Pole Dist 40 Ft Class 4 Wood	
89	REMOVE		VM5-6	1	Same	18kV Lightning Arrester and Jumpers	
89	REMOVE		A5-2N	1	Same	1Ph Tap off of a Multi-Phase pole Less N	
53R	REMOVE		C8	1	Same	3Ph Double Deadend or Medium Angle	
53R	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
53R	REMOVE		F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
53R	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
53R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
53R	REMOVE		M3-2	1	Same	Fused Cutout & Arrester Combination	
53R	REMOVE		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
53R	REMOVE		M42-13	2	Same	Deadend Assembly #336	
53R	REMOVE		M42-17	6	Same	Deadend Assembly #795	
53R	REMOVE		M5-1	4	Same	Jumper	
53R	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
53R	REMOVE		M5-5	6	Same	Cross arm pin and insulator Drop in	
53R	REMOVE		O336 AAC	239	Same	OH Conductor 336 Aluminum	
53R	REMOVE		O4 ACSR	50	Same	OH Conductor 4 ACSR	
53R	REMOVE		O4 ACSR	50	Same	OH Conductor 4 ACSR	
53R	REMOVE		O4 ACSR	40	Same	OH Conductor 4 ACSR	
53R	REMOVE		O4 ACSR	40	Same	OH Conductor 4 ACSR	
53R	REMOVE		O795 AAC	718	Same	OH Conductor 795 AAC	
53R	REMOVE		P50-2	1	Same	Pole Dist 50 Ft Class 2 Wood	
53R	REMOVE		A4N	1	Same	1Ph Large Angle Less Neutral	
53R	REMOVE		E1-1	1	Same	Grounded Single Down Guy	
53R	REMOVE		F2-1	1	Same	Anchor Drilled and grouted 3/4" x 8" r	
53R	REMOVE		J6	2	Same	Sec or N Assemb Swinging Sec clevis	
53R	REMOVE		M2-1	1	Same	Pole Ground Driven Ground Rod	
53R	REMOVE		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
53R	REMOVE		M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
53R	REMOVE		M5-4	1	Same	DA Bolt Adapter - side insul pole jumper	
53R	REMOVE		P35-5	1	Same	Pole Dist 35 Ft Class 5 Wood	
53R	REMOVE		C8	1	Same	3Ph Double Deadend or Medium Angle	
53R	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
53R	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
53R	REMOVE		G135	1	Same	1Phase Transformer Pre-mounted arrester	
53R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
53R	REMOVE		M42-13	4	Same	Deadend Assembly #336	
53R	REMOVE		M42-17	12	Same	Deadend Assembly #795	
53R	REMOVE		M5-1	4	Same	Jumper	
53R	REMOVE		M5-2	1	Same	Pole top pin and insulator	
53R	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
53R	REMOVE		M5-5	4	Same	Cross arm pin and insulator Drop in	
53R	REMOVE		O336 AAC	268	Same	OH Conductor 336 Aluminum	
53R	REMOVE		O795 AAC	803	Same	OH Conductor 795 AAC	
53R	REMOVE		P50-2	1	Same	Pole Dist 50 Ft Class 2 Wood	
53R	REMOVE (LABOR ONLY)		G10DV	1	Same	Tran OH DV 120/240 10 1 Bush	
53R	REMOVE (LABOR ONLY)		K18	1	Same	LO: Service Assembly Eye Bolt	
53R	REMOVE		A5-2N	1	Same	1Ph Tap off of a Multi-Phase pole Less N	
53R	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
53R	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
53R	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
53R	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
53R	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
53R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
53R	REMOVE		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
53R	REMOVE		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
53R	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
53R	REMOVE		O336 AAC	67	Same	OH Conductor 336 Aluminum	
53R	REMOVE		O4 ACSR	55	Same	OH Conductor 4 ACSR	
53R	REMOVE		O4 ACSR	55	Same	OH Conductor 4 ACSR	
53R	REMOVE		O4 ACSR	29	Same	OH Conductor 4 ACSR	
53R	REMOVE		O4 ACSR	29	Same	OH Conductor 4 ACSR	
53R	REMOVE		O795 AAC	201	Same	OH Conductor 795 AAC	
53R	REMOVE		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
53R	REMOVE		A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
53R	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
53R	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
53R	REMOVE		F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
53R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
53R	REMOVE		M3-2	1	Same	Fused Cutout & Arrester Combination	
53R	REMOVE		M42-13	2	Same	Deadend Assembly #336	
53R	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
53R	REMOVE		O336 AAC	28	Same	OH Conductor 336 Aluminum	



Pedernales Electric Cooperative

ASSEMBLY UNITS REPORT

WO Number 101605
Printed: 3/15/2016

Location	Location Name	Function	Unit	Quantity	Work Crew	Description	Comments
59R	REMOVE		O336 AAC	28	Same	OH Conductor 336 Aluminum	
59R	REMOVE		O336 AAC	208	Same	OH Conductor 336 Aluminum	
59R	REMOVE		O795 AAC	625	Same	OH Conductor 795 AAC	
59R	REMOVE		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
61R	REMOVE		A5-2	1	Same	1Ph Tap off of a Multi-Phase pole	
61R	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
61R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
61R	REMOVE		M3-2.1	1	Same	Fused Loadbreak Cutout & Arrester Combin	
61R	REMOVE		M42-13	2	Same	Deadend Assembly #336	
61R	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
61R	REMOVE		O336 AAC	113	Same	OH Conductor 336 Aluminum	
61R	REMOVE		O795 AAC	339	Same	OH Conductor 795 AAC	
62R	REMOVE		P50-3	1	Same	Pole Dist 50 Ft Class 3 Wood	
62R	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
62R	REMOVE		G135	1	Same	1Phase Transformer Pre-mounted arrester	
62R	REMOVE		G25DV	1	Same	Tran OH DV 120/240 25 1 Bush	
62R	REMOVE		KDHC	1	Same	RO: Svc Assemb Wedge Clamp w/ drive hook	
62R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
62R	REMOVE		M5-23.7.1	4	Same	Stirrup Hot Line #795	
62R	REMOVE		O336 AAC	244	Same	OH Conductor 336 Aluminum	
62R	REMOVE		O795 AAC	731	Same	OH Conductor 795 AAC	
62R	REMOVE		P55-2	1	Same	Pole Dist 55 Ft Class 2 Wood	
62R	REMOVE		VM5-6	3	Same	18kV Lightning Arrester and Jumpers	
63R	REMOVE		A5-3	1	Same	1Ph Tap off an Existing Bolt	
63R	REMOVE		C1-2	1	Same	3Ph Tangent Single Support with Saddle P	
63R	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
63R	REMOVE		E1-3	1	Same	Un-grounded Double Down Guy	
63R	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
63R	REMOVE		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
63R	REMOVE		F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
63R	REMOVE		F1-4	1	Same	Anchor 1" x 10" rod 16k-40k pound anch	
63R	REMOVE		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
63R	REMOVE		M42-13	3	Same	Deadend Assembly #336	
63R	REMOVE		M42-17	3	Same	Deadend Assembly #795	
63R	REMOVE		M5-23.7.1	1	Same	Stirrup Hot Line #795	
63R	REMOVE		M5-5	1	Same	Cross arm pin and insulator Drop in	
63R	REMOVE		O336 AAC	172	Same	OH Conductor 336 Aluminum	
63R	REMOVE		O336 AAC	82	Same	OH Conductor 336 Aluminum	
63R	REMOVE		O336 AAC	82	Same	OH Conductor 336 Aluminum	
63R	REMOVE		O795 AAC	517	Same	OH Conductor 795 AAC	
64R	REMOVE		P55-1	1	Same	Pole Dist 55 Ft Class 1 Wood	
64R	REMOVE		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
64R	REMOVE		A5-3	1	Same	1Ph Tap off an Existing Bolt	
64R	REMOVE		E1-2	1	Same	Un-grounded Single Down Guy	
64R	REMOVE		M2-2	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
64R	REMOVE		M3-10.100E	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
64R	REMOVE		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
64R	REMOVE		M42-13	2	Same	Deadend Assembly #336	
64R	REMOVE		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
64R	REMOVE		M5-23.3.1	1	Same	Stirrup Hot Line #336	
64R	REMOVE		O4 ACSR	21	Same	OH Conductor 4 ACSR	
64R	REMOVE		O4 ACSR	21	Same	OH Conductor 4 ACSR	
64R	REMOVE		P35-4	1	Same	Pole Dist 35 Ft Class 4 Wood	
67A	INSTALL		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
67A	INSTALL		E1-2	1	Same	Un-grounded Single Down Guy	
67A	INSTALL		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
67A	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
67A	INSTALL		M5-1	1	Same	Jumper	
67A	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
67B	INSTALL		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
67B	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
67B	INSTALL		M5-1	1	Same	Jumper	
67B	INSTALL		M5-23.3.1	1	Same	Stirrup Hot Line #336	
67B	REMOVE		A1	1	Same	1Ph Tangent Single Support	
67D	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
67D	INSTALL		A5-1	1	Same	1Ph Tap off of a 1Ph pole	
67D	INSTALL		E1-2	2	Same	Un-grounded Single Down Guy	
67D	INSTALL		F1-3	1	Same	Anchor 3/4" x 8" rod 10k pound anchor	
67D	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
67D	REMOVE		A2	1	Same	1Ph Small Angle	
67D	REMOVE		E1-1	1	Same	Grounded Single Down Guy	
67D	REMOVE		E3-10	1	Same	Guy Marker	
10.1	INSTALL		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
10.1	INSTALL		M42-11.1	1	Same	Deadend Assembly #4 or #1-0 ACSR with b	
10.1	INSTALL		O4 ACSR	269	Same	OH Conductor 4 ACSR	
10.1	INSTALL		O4 ACSR	269	Same	OH Conductor 4 ACSR	
10.1	INSTALL		O4 ACSR	8	Same	OH Conductor 4 ACSR	
10.1	INSTALL		O4 ACSR	8	Same	OH Conductor 4 ACSR	
10.1	REMOVE		J6	1	Same	Sec or N Assemb Swinging Sec clevis	
10.1	REMOVE		M42-11	1	Same	Deadend Assembly #4 or #1-0 ACSR	
23-1	INSTALL		A1	1	Same	1Ph Tangent Single Support	
23-1	INSTALL		M2-2	1	Same	Pole Grnd Butt Plate NESC "Made Ground"	
23-1	INSTALL		P45-4	1	Same	Pole Dist 45 Ft Class 4 Wood	
61.1	INSTALL		M42-11	2	Same	Deadend Assembly #4 or #1-0 ACSR	
61.1	INSTALL		M5-23.1.1	1	Same	Stirrup Hot Line #4 or #1/0	
61.1	REMOVE		M42-13	2	Same	Deadend Assembly #336	
62R.1	REMOVE		M5-23.3.1	1	Same	Stirrup Hot Line #336	
62R.1	REMOVE		K14	1	Same	Service Assembly Service Clevis	
62R.1	REMOVE		M2-1	1	Same	Pole Ground Driven Ground Rod	
62R.1	REMOVE		O1-0 TP	49	Same	OH Service Conductor 1-0 Triplex	
62R.1	REMOVE		P35-5	1	Same	Pole Dist 35 Ft Class 5 Wood	
62R.1	REMOVE (LABOR ONLY)		M8-10	1	Same	LO: Meter Loop Underground Service	

- *** ALL NEW POLES WILL BE A MINIMUM 4" IN HEIGHT.
- *** CHANGE OF EXISTING 3 PHASE CONDUCTOR FOR 10795 AAC PRIMARY.
- *** EXISTING POLES ARE LOCATED 10' WITHIN TPOOT R.O.W.
- *** PROFILE OF 3 PHASE ELECTRIC CROSSINGS SHOWS ON DWG.
- *** NO CHANGE OF ROUTE OF EXISTING 3 PHASE ELECTRIC LINE.
-



Unit	Function	Quantity	Description
A1	INSTALL	7	1Ph Tangent Single Support
A1-1	INSTALL	1	1Ph Tangent Double Support
A4	INSTALL	3	1Ph Large Angle
A5	INSTALL	1	1Ph Deadend
A5-1	INSTALL	6	1Ph Tap off of a 1Ph pole
A5-2	INSTALL	8	1Ph Tap off of a Multi-Phase pole
A5-2A	INSTALL	2	1Ph Tap off a Multi-Phase pole existing
A5-3	INSTALL	3	1Ph Tap off an Existing Bolt
A5-3N	INSTALL	16	1Ph Tap off an Existing Bolt Less Neutra
A5-4	INSTALL	4	1Ph Tap off an Existing Bolt with Ridge
A6	INSTALL	5	1Ph Double Deadend
C1-2	INSTALL	9	3Ph Tangent Single Support with Saddle P
C1-3	INSTALL	11	3Ph Tangent Double Support with Saddle P
C1-3N	INSTALL	1	3Ph Tangent Double Support with Saddle P
C7-7	INSTALL	10	3Ph Deadend #795 AAC
C7-7N	INSTALL	5	3Ph Deadend #795 AAC Less Neutral
C7-8	INSTALL	4	3Ph Deadend 3-cond #795 AAC 10 Ft arms
C7-9	INSTALL	1	3Ph Deadend 4-cond #795 AAC 10 Ft arms
C7X	INSTALL	2	3 Ph Tap off of a 3 Ph Deadend
C8	INSTALL	2	3Ph Double Deadend or Medium Angle
C8-1	INSTALL	1	3Ph Double Deadend 4-cond
C9-2	INSTALL	1	3Ph Tangent or Small Angle Dbl Support a
E1-2	INSTALL	42	Un-grounded Single Down Guy
E1-3	INSTALL	20	Un-grounded Double Down Guy
F1-3	INSTALL	31	Anchor 3/4" x 8' rod 10k pound anchor
F1-4	INSTALL	22	Anchor 1" x 10' rod 16k-40k pound anch
G10DV	INSTALL	1	Tran OH DV 120/240 10 1 Bush
G135	INSTALL	5	1Phase Transformer Pre-mounted arrester
G25DV	INSTALL	3	Tran OH DV 120/240 25 1 Bush
M2-1	INSTALL	1	Pole Ground Driven Ground Rod
M2-2	INSTALL	44	Pole Grnd Butt Plate NESC "Made Ground"
M2-2.2	INSTALL	5	Grounding Assembly Large Copper Plate W/
M3-1	INSTALL	7	Fused Cutout
M3-1.1	INSTALL	3	Fused Loadbreak Cutout
M3-15E	INSTALL	1	ABS Extendo Stick Operated 900a
M42-11	INSTALL	73	Deadend Assembly #4 or #1-0 ACSR
M42-11.1	INSTALL	7	Deadend Assembly #4 or #1-0 ACSR with b
M42-13	INSTALL	19	Deadend Assembly #336
M42-17	INSTALL	109	Deadend Assembly #795
M5-1	INSTALL	6	Jumper
M5-2	INSTALL	4	Pole top pin and insulator
M5-23.1.1	INSTALL	19	Stirrup Hot Line #4 or #1/0
M5-23.3.1	INSTALL	4	Stirrup Hot Line #336
M5-23.7.1	INSTALL	50	Stirrup Hot Line #795
M5-4	INSTALL	1	DA Bolt Adapter - side insul pole jumper
M5-5	INSTALL	30	Cross arm pin and insulator Drop in
M5-61.1	INSTALL	12	Single Phase #4, 1/0 Off Pole Arrester
M5-61.3	INSTALL	8	Three Phase Off Pole Arrester
O1-0 ACSR	INSTALL	3459	OH Conductor 1-0 ACSR
O1-0 TP	INSTALL	196	OH Service Conductor 1-0 Triplex
O336 AAC	INSTALL	4452	OH Conductor 336 Aluminum
O4 ACSR	INSTALL	2134	OH Conductor 4 ACSR
O795 AAC	INSTALL	19673	OH Conductor 795 AAC
P40-5	INSTALL	5	Pole Dist 40 Ft Class 5 Wood
P45-3	INSTALL	2	Pole Dist 45 Ft Class 3 Wood
P45-4	INSTALL	7	Pole Dist 45 Ft Class 4 Wood



P50-1	INSTALL	12	Pole Dist 50 Ft Class 1 Wood
P50-3	INSTALL	18	Pole Dist 50 Ft Class 3 Wood
P55-1	INSTALL	2	Pole Dist 55 Ft Class 1 Wood
P55-H6	INSTALL	1	Pole Dist 55 Ft Class H6 Wood
P55C	INSTALL	1	Pole Dist 55 Ft Conc Engineer Self-Supp
P60-H3	INSTALL	1	Pole Dist 60 Ft Class H3 Wood
P65-H3	INSTALL	1	Pole Dist 65 Ft Class H3 Wood
POLE SET - 7.5 CUB	INSTALL	5	Pole Set - 7.5 cubic ft
VG25	INSTALL	1	Tran OH 14.4 120/240 25 1 Bush
VM5-6	INSTALL	6	18kV Lightning Arrester and Jumpers
ZC1-1B	INSTALL	3	3PH TANGENT DBL SUPP NARROW CONSTR
ZC7B	INSTALL	1	3Ph Deadend Narrow Constr
ZM5-15B	INSTALL	5	18" 3 position fbrgls Standoff Bracket
ZM5-16B	INSTALL	2	Bracket Equipment Mount FG 3Ph
E1-2	INSTALL (LABOR ONLY)	1	Un-grounded Single Down Guy
G10DV	INSTALL (LABOR ONLY)	1	Tran OH DV 120/240 10 1 Bush
K18	INSTALL (LABOR ONLY)	6	LO: Service Assembly Eye Bolt
L2-2.1	INSTALL (LABOR ONLY)	1	Security Light 100W High Pressure Sodium
M3-10	INSTALL (LABOR ONLY)	2	Single Phase OCR W/Bypass
M3-10.50E	INSTALL (LABOR ONLY)	3	Recloser 50 AMP E
M8-10	INSTALL (LABOR ONLY)	1	LO: Meter Loop Underground Service
A1	REMOVE	5	1Ph Tangent Single Support
A1-1	REMOVE	3	1Ph Tangent Double Support
A2	REMOVE	3	1Ph Small Angle
A4N	REMOVE	1	1Ph Large Angle Less Neutral
A5	REMOVE	2	1Ph Deadend
A5-1	REMOVE	2	1Ph Tap off of a 1Ph pole
A5-1N	REMOVE	5	1Ph Tap off of a 1Ph pole Less Neutral
A5-2	REMOVE	4	1Ph Tap off of a Multi-Phase pole
A5-2N	REMOVE	5	1Ph Tap off of a Multi-Phase pole Less N
A5-3	REMOVE	2	1Ph Tap off an Existing Bolt
A5N	REMOVE	1	1Ph Deadend Less Neutral
A6	REMOVE	4	1Ph Double Deadend
A6N	REMOVE	1	1Ph Double Deadend Less Neutral
C1-2	REMOVE	8	3Ph Tangent Single Support with Saddle P
C1-3	REMOVE	2	3Ph Tangent Double Support with Saddle P
C2-2	REMOVE	1	3Ph Small Angle #1-0 ACSR #336 or 795 AA
C7-7	REMOVE	4	3Ph Deadend #795 AAC
C8	REMOVE	2	3Ph Double Deadend or Medium Angle
C9-2	REMOVE	1	3Ph Tangent or Small Angle Dbl Support a
E1-1	REMOVE	7	Grounded Single Down Guy
E1-2	REMOVE	17	Un-grounded Single Down Guy
E1-3	REMOVE	3	Un-grounded Double Down Guy
E3-10	REMOVE	3	Guy Marker
F1-3	REMOVE	23	Anchor 3/4" x 8' rod 10k pound anchor
F1-4	REMOVE	9	Anchor 1" x 10' rod 16k-40k pound anch
F2-1	REMOVE	1	Anchor Drilled and grouted 3/4" x 8' r
G10DV	REMOVE	2	Tran OH DV 120/240 10 1 Bush
G135	REMOVE	7	1Phase Transformer Pre-mounted arrester
G15DV	REMOVE	1	Tran OH DV 120/240 15 1 Bush
G25DV	REMOVE	3	Tran OH DV 120/240 25 1 Bush
J6	REMOVE	17	Sec or N Assemb Swinging Sec clevis
K14	REMOVE	2	Service Assembly Service Clevis
K15	REMOVE	1	Svc Assemb Eye Nut w/Swinging Sec clevis
K18	REMOVE	2	LO: Service Assembly Eye Bolt
KC	REMOVE	5	RO: Service Assembly Wedge Clamp
KDHC	REMOVE	7	RO: Svc Assemb Wedge Clamp w/ drive hook
M2-1	REMOVE	12	Pole Ground Driven Ground Rod


** ALL NEW POLYS WILL BE A MINIMUM 4" IN HEIGHT.
 ** CHANGE OF EXISTING 2.5 PHASE CONDUIT TO 75% AC PRIMARY
 ** EXISTING POLES ARE LOCATED 18' WITHIN TYPICAL ROW.
 ** PROFILE OF 3-PHASE ELECTRIC CROSSINGS SHOWN ON DWG.
 ** NO CHANGE OF ROUTE OF EXISTING 3-PHASE ELECTRIC LINE.
 ** THE CONNECTION POLICY SHALL BE FOLLOWED FOR ALL
 INSTALLATION OF ELECTRIC EQUIPMENT IN SCOPE OF PROJECT.
 ** ALL INSPECTIONS SHALL BE PERFORMED BY PEC.
 ** ANY CHANGES IN SCOPE OF PROJECT SHALL BE COORDINATED
 WITH AND APPROVED BY PEC BEFORE WORK IS DONE.
 ** CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN FOR
 ALL INSPECTIONS BEFORE ANY DIGGING IS INITIATED IN SCOPE OF
 PROJECT.
 ** ALL REQUIRED CUSTOMER TAGS FOR TRANSFORMER
 INSTALLATION ARE NEW/EXISTING. FOR ALL ELECTRIC EQUIPMENT IN SCOPE OF
 PROJECT, THE TAGS SHALL BE OBTAINED BY AND APPROVED BY PEC
 BEFORE DISCONNECTING C/STOMER ELECTRIC POWER SERVICE.

*** THE QUANTITIES SHOWN ON THE PLANS AND THE BID DOCUMENTS ARE ESTIMATED QUANTITIES AND BASED ON THE PLAN SET AND TO BE USED FOR BIDDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE ANY PERCEIVED DISCREPANCIES IN THE QUANTITIES WITH THE OWNER PRIOR BEGINNING ANY CONSTRUCTION WORK.

PRELIMINARY
NOT FOR CONSTRUCTION

E					K														
D					J														
C					H														
B					G														
A					F														
Ltr.	Date	Revision			By	Chkd.	Appr.	Ltr.	Date	Revision			By	Chkd.	Appr.				

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M & S

ENGINEERING
ENGINEERS PLANNERS AND SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-1394

BRANCH
PO BOX 100
MCQUEEN TEXAS 78055
PHONE# (830) 228-5446
FAX # (830) 885-2170



PEDERNALES ELECTRIC COOPERATIVE, INC.

CR258 RELOCATION PRELIMINARY PLANS

DATE: 01/02/2016
SCALE: N/A
ENGINEER: XXXXXXXXX
DESIGNED BY: K. WJ M. G
DRAWN BY: M. Gold
SHEET: 9 OF 10



- * ALL NEW POLES WILL BE 11' MINIMUM & 15' IN HEIGHT
- * CHANGE OF EXISTING 3-PHASE LINE TO 75% AM PRIMARY
- * EXISTING POLES ARE LOCATED 18' WITHIN EXISTED ROW
- * PROFILE OF 3 PHASE LINE OVER CROSSINGS SHOWN IN Dwg.
- * NO CHANGE OF ROUTE OF EXISTING 3-PHASE ELECTRIC LINE
- * FENCE CONNECTION POLICY SHALL BE FOLLOWED FOR ALL INST. ALLIATION OF ELECTRIC EQUIPMENT IN SCOPE OF PROJECT
- * ALL INST. CONNECTION SHALL BE PERFORMED BY ETC.
- * ANY CHANGES IN SCOPE OF PROJECT SHALL BE COORDINATED WITH AND APPROVED BY THE BEFORE WORK IS DONE
- * CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN FOR ALL LIVE LINES BEFORE ANY DIGGING IS INITIATED SINCE USE OF PROJECT
- * ALL REQUIRED CUSTOMER OR TAGS FOR TRANSFER OR INSTALLATION OF NEW EXISTING ELECTRIC EQUIPMENT IN SCOPE OF PROJECT SHALL BE OBTAINED AND COORDINATED WITH THE BEFORE DISCONNECTING CUST. UNDER ELECTRIC POWER SERVICE

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 01/01/2011
SCALE: N/A
ENGINEER: XXXXXXXXX
DESIGNED BY: K. W./ M. G.
DRAWN BY: M. Gold
SHEET: 10 OF 10

Attachment B

Utility's Schedule of Work and Estimated Date of Completion

Estimated Start Date: April 25, 2016

Estimated Completion Date: June 17, 2016

Attachment C

Eligibility Ratio

See Attachment "H" for proof of property interest, which is established at 97.30% eligible.

ATTACHMENT "C"

CR 258

DATE: 04/05/2016

ELIGIBILITY RATIO SUMMARY

Pedernales Electric Coop

SHEET No. & Sta. Limits

		Poles Non-Eligible	Poles Eligible	Poles Outside of Project
SHEET NO. 1	66+25 - 97+00	1	17	
SHEET NO. 2	104+50 - 138+00		9	
SHEET NO. 3	139+00 - 164+00		10	
TOTAL =		1	36	0

Eligible = 36
 Non-Eligible = 1
 GRAND TOTAL = 37

ELIGIBILITY RATIO = 97.30%

Attachment D

Betterment Calculation and Estimates

Betterment does not exist in this agreement.

Attachment E

Proof of Property Interest



ESMT

2006010427

2 PGS

UTILITY EASEMENT**THE STATE OF TEXAS**

§

§

KNOW ALL MEN BY THESE PRESENTS:**COUNTY OF WILLIAMSON**

§

THAT Sandra Anderson, of Williamson County, Texas, for and in consideration of ONE DOLLAR (\$1.00) to me (us) in hand paid by PEDERNALES ELECTRIC COOPERATIVE, INC., of Johnson City, Texas, has (have) granted, sold, and conveyed and by these presents does (do) grant, sell, and convey unto Pedernales Electric Cooperative, Inc., an easement and right-of-way as hereinafter described for an electric distribution line consisting of variable number of wires, and all necessary or desirable appurtenances, over, across and upon the following described lands located in Williamson County, Texas, to-wit:

Being out of that certain tract or parcel of land out of the B. Manlove Survey, Abstract No. 417, situated in Williamson County, Texas, being a portion of that 7.35 acre tract of land conveyed to Sandra Anderson as described in Document No. 199946139 of the Official Records of Williamson County, Texas.

Easement and right-of-way herein shall be a strip of fifteen (15') feet in width in and along the entire length of the Grantors property line and the new right-of-way of County Road 258 in Williamson County, for the length of the power line as the power line is built on the Grantors property.

Together with the right of ingress and egress over my (our) adjacent lands to or from said right-of-way for the purpose of constructing, reconstructing, inspecting, patrolling, pulling new wire on, maintaining and removing said lines and appurtenances; the right to relocate within the limits of said right-of-way; the right to remove from said lands all trees and parts thereof, or other obstructions which endanger or may interfere with the efficiency of said lines or their appurtenances.

TO HAVE AND TO HOLD the above described easement and rights unto Pedernales Electric Cooperative, Inc. and their successors and assigns, until said line shall be abandoned.

And I (we) do hereby bind myself (ourselves), my (our) heirs and legal representatives to warrant and forever defend all and singular the above described easement and rights unto Pedernales Electric Cooperative, Inc., their successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

WITNESS my (our) hand(s) this 8th day of December, 2004.

X Sandra Anderson

Sandra Anderson

Pedernales Electric Coop
Attn: Dirk Field
PO Box 499
Bertram, Texas 78605

NOTARIZE ON THE NEXT PAGE

Sandra Anderson

(NOTARIZE ON THE NEXT PAGE)

THE STATE OF TEXAS
COUNTY OF BURNET

BEFORE ME, the undersigned authority, on this day personally appeared
Sandra Anderson
known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 8 day of
December, 2004.



Charles Dink Field
Notary Public in and for
The State of Texas

THE STATE OF TEXAS
COUNTY OF BURNET

BEFORE ME, the undersigned authority, on this day personally appeared

known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this ____ day of
_____, 2004.

Notary Public in and for
The State of Texas

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS 2006010427
Nancy E. Rister
02/10/2006 10:14 AM
CARRILLO \$20.00
NANCY E. RISTER, COUNTY CLERK
WILLIAMSON COUNTY, TEXAS



UTILITY EASEMENT

**THE STATE OF TEXAS §
 § **KNOW ALL MEN BY THESE PRESENTS:**
COUNTY OF WILLIAMSON §**

THAT Omer Galle, of Williamson County, Texas, for and in consideration of ONE DOLLAR (\$1.00) to me (us) in hand paid by PEDERNALES ELECTRIC COOPERATIVE, INC., of Johnson City, Texas, has (have) granted, sold, and conveyed and by these presents does (do) grant, sell, and convey unto Pedernales Electric Cooperative, Inc., an easement and right-of-way as hereinafter described for an electric distribution line consisting of variable number of wires, and all necessary or desirable appurtenances, over, across and upon the following described lands located in Williamson County, Texas, to-wit:

Being out of that certain tract or parcel of land out of the B. Manlove Survey, Abstract No. 417, situated in Williamson County, Texas, being a portion of that 1.35 acre tract and a 9.4 acre tract of land conveyed to Omer Galle as described in Volume 640, Page 46, of the Official Records of Williamson County, Texas.

Easement and right-of-way herein shall be a strip of ten (10') feet in width in and along the entire length of the Grantors property line and the new right-of-way of County Road 258 in Williamson County, for the length of the power line as the power line is built on the Grantors property.

Together with the right of ingress and egress over my (our) adjacent lands to or from said right-of-way for the purpose of constructing, reconstructing, inspecting, patrolling, pulling new wire on, maintaining and removing said lines and appurtenances; the right to relocate within the limits of said right-of-way; the right to remove from said lands all trees and parts thereof, or other obstructions which endanger or may interfere with the efficiency of said lines or their appurtenances.

TO HAVE AND TO HOLD the above described easement and rights unto Pedernales Electric Cooperative, Inc. and their successors and assigns, until said line shall be abandoned.

And I (we) do hereby bind myself (ourselves), my (our) heirs and legal representatives to warrant and forever defend all and singular the above described easement and rights unto Pedernales Electric Cooperative, Inc., their successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

WITNESS my (our) hand(s) this 19 day of January, 2004/5

X

Omer Galle

Omer Galle

X

Zona Galle

Zona Galle

NOTARIZE ON THE NEXT PAGE

(NOTARIZE ON THE NEXT PAGE)

THE STATE OF TEXAS
COUNTY OF ~~BURNET~~

Williamson

BEFORE ME, the undersigned authority, on this day personally appeared
Zona E. Galt
known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 19 day of
January, 2004.

Debra Ann Mitchell
Notary Public in and for
The State of Texas

RECORDERS MEMORANDUM

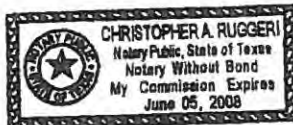
All or parts of the text on this page was not
clearly legible for satisfactory recordation.

THE STATE OF TEXAS
COUNTY OF ~~BURNET~~

TRAVIS

BEFORE ME, the undersigned authority, on this day personally appeared
Omer Galt
known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 20 day of
January, 2004. 2005



Christopher A. Ruggeri
Notary Public in and for
The State of Texas

FILED AND RECORDED

OFFICIAL PUBLIC RECORDS 2005006010

Nancy E. Rister

01/25/2005 11:05 AM

CARRILLO \$15.00

NANCY E. RISTER, COUNTY CLERK
WILLIAMSON COUNTY, TEXAS

② P&C AHA: Sandra
POB 449
Re team, TV 78605



ESRT
2 PCS

2009017115

W00# 48184

UTILITY EASEMENT

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF WILLIAMSON §

THAT **Charles A. Feduccia and wife, Janna L. Feduccia**, (Grantor), for and in consideration of ONE DOLLAR (\$1.00) to me (us) in hand paid by PEDERNALES ELECTRIC COOPERATIVE, INC., of Johnson City, Texas, has (have) granted, sold, and conveyed and by these presents does (do) grant, sell, and convey unto Pedernales Electric Cooperative, Inc., an easement and right-of-way as hereinafter described for an electric distribution line consisting of variable number of wires, and all necessary or desirable appurtenances (including poles made of wood, metal or other materials, telephone wire, props and guys), over, across and upon the following described lands located in Williamson County, Texas, to-wit:

Being Lot 1, of Feduccia Subdivision, a Subdivision in Williamson County, Texas, according to the map or plat thereof recorded in Cabinet EE, Slides 179-180, of the Plat Records in Williamson County, Texas.

Easement and right-of-way herein shall be a strip of land ten (10') feet in width that being ten (10') feet along and parallel to Grantor's east property line for the entire length of said Grantor property line.

Together with the right of ingress and egress over my (our) adjacent lands to or from said right-of-way for the purpose of constructing, reconstructing, inspecting, patrolling, pulling new wire on, maintaining and removing said lines and appurtenances; the right to relocate within the limits of said right-of-way; the right to remove from said lands all trees and parts thereof, or other obstructions which endanger or may interfere with the efficiency of said lines or their appurtenances.

TO HAVE AND TO HOLD the above described easement and rights unto Pedernales Electric Cooperative, Inc. and their successors and assigns, until said line shall be abandoned.

And I (we) do hereby bind myself (ourselves), my (our) heirs and legal representatives to warrant and forever defend all and singular the above described easement and rights unto Pedernales Electric Cooperative, Inc., their successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

WITNESS my (our) hand(s) this 31 day of Oct, 2008.

CHARLES A. FEDUCCIA

X

JANNA L. FEDUCCIA

ATTY IN FACT

(NOTARIZE ON THE NEXT PAGE)

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

BEFORE ME, the undersigned authority, on this day personally appeared
CHARLES FEDUCCIA
known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 31 day of
Oct, 2008.

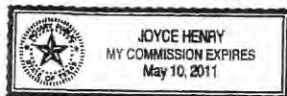


Joyce Henry
Notary Public in and for
The State of Texas

THE STATE OF TEXAS
COUNTY OF _____

BEFORE ME, the undersigned authority, on this day personally appeared
CHARLES FEDUCCIA Attorney in Fact - JANNAL FEDUCCIA
known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 31 day of
Oct, 2008.



Joyce Henry
Notary Public in and for
The State of Texas

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS 2009017115

Nancy E. Rister
03/15/2009 10:23 AM

SURBATT \$20.00

NANCY E. RISTER, COUNTY CLERK
WILLIAMSON COUNTY, TEXAS

UTILITY EASEMENT

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF WILLIAMSON §

THAT Chris Harris and Sarah Harris, (Grantors) of Williamson County, Texas, for and in consideration of ONE DOLLAR (\$1.00) to me (us) in hand paid by PEDERNALES ELECTRIC COOPERATIVE, INC., of Johnson City, Texas, has (have) granted, sold, and conveyed and by these presents does (do) grant, sell, and convey unto Pedernales Electric Cooperative, Inc., an easement and right-of-way as hereinafter described for an electric metering point consisting of a distribution meter loop and underground service wire on an existing pole, and all necessary or desirable appurtenances over, across and upon the following described lands located in Williamson County, Texas, to-wit:

Lot 1, Fedducia Subdivision, a subdivision in Williamson County, Texas, according to the map or plat thereof recorded in cabinet EE, slides 179-180, plat records, Williamson County, Texas.

Easement and right-of-way herein shall be a strip of land ten (10') feet in width that being five (5') feet on each side of the centerline from the existing pole due east to the property line for the construction and installation of the said distribution meter loop and underground service wire on the Grantors property. (See attached "Exhibit A")

Together with the right of ingress and egress over my (our) adjacent lands to or from said right-of-way for the purpose of constructing, reconstructing, inspecting, patrolling, pulling new wire on, maintaining and removing said lines and appurtenances; the right to relocate within the limits of said right-of-way; the right to relocate said facilities in the same relative position to any adjacent road if and such road is widened in the future; the right to remove from said lands all trees and parts thereof, or other obstructions which endanger or may interfere with the efficiency of said lines or their appurtenances.

TO HAVE AND TO HOLD the above described easement and rights unto Pedernales Electric Cooperative, Inc. and their successors and assigns, until said line shall be abandoned.

And I (we) do hereby bind myself (ourselves), my (our) heirs and legal representatives to warrant and forever defend all and singular the above described easement and rights unto Pedernales Electric Cooperative, Inc., their successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

ESMT
3 PGS

2012015325

CM# 10002428

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

Sarah Harris
SARAH HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared Sarah Harris,
Known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 27 day of
FEB, 2012

[Signature]
Notary Public in and for
The State of Texas



THE STATE OF TEXAS
COUNTY OF WILLIAMSON

[Signature]
CHRIS HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared Chris Harris,
Known to me to be the person whose name is subscribed to the foregoing instrument
and acknowledged to me that he executed the same for the purposes and consideration
therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 27 day of
FEB, 2012

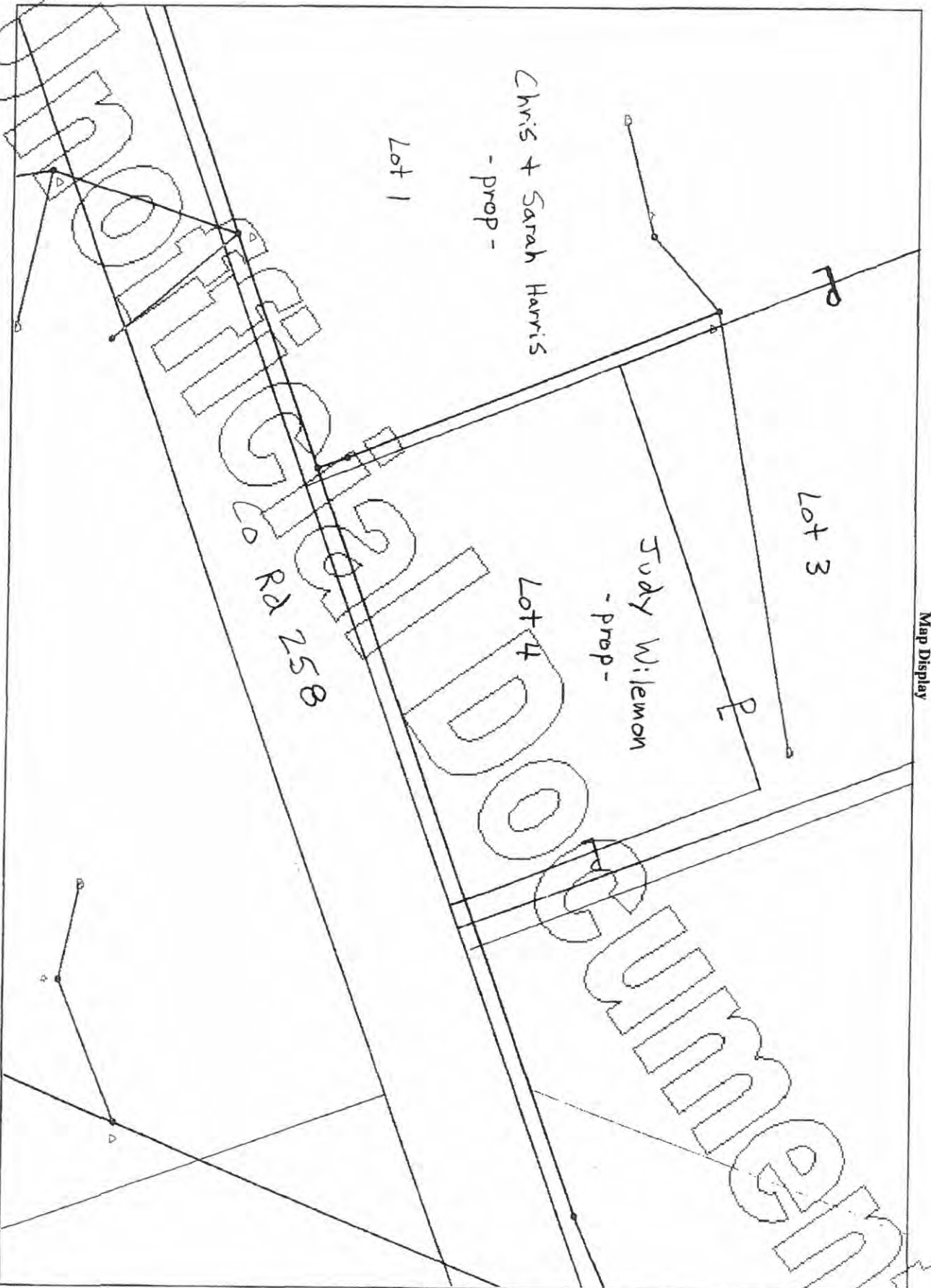
[Signature]
Notary Public in and for
The State of Texas



"Exhibit A"

CM# 10002428

Map Display



P - Denotes property line

E - Denotes easement area

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS 2012015325

Nancy E. Rister

03/02/2012 01:52 PM

CPHELPS \$24.00

NANCY E. RISTER, COUNTY CLERK
WILLIAMSON COUNTY, TEXAS

① Pedernales Electric Corp
Bp Warner
PO Box 2048
Liberty Hill Tx 78642

Attachment F

Wilco – U-80A – Joint Use Agreement

Utility Joint Use Agreement 80A

Agreement No. WC-JUA-UTILITY-CR 258- PEC

THE STATE OF TEXAS }
COUNTY OF WILLIAMSON }

County: Williamson
Road Location: CR 258:
From Sunset Ridge to Reagan Blvd.

WHEREAS, Williamson County, hereinafter called the **County**, proposes to make certain roadway improvements on that section of the above indicated roadway; and

WHEREAS, Pedernales Electric Cooperative, Inc., hereinafter called the **Owner**, proposes to relocate certain of its facilities on, along or across, and within or over such limits of the roadway right of way as indicated on the plans attached, executed by **Owner** on the 8th day of March, 2016, or on location sketches attached hereto except as provided below;

NOW, THEREFORE, it is hereby mutually agreed that joint use for both roadway and utility purposes will be made of the area within the right of way limits as such area is defined and to the extent indicated on the aforementioned plans or sketches. Where **Owner** by reason of ownership within the area described above of an easement or fee title has the right to alter, modify or add to facilities presently located within the area described or construct additional facilities therein, such right is hereby retained, provided, however, if existing facilities are to be altered or modified or new facilities constructed within said area the **Owner** agrees to notify the **County** prior thereto, to furnish necessary sketches showing location, type of construction and methods to be used for protection of traffic, and if, in the sole opinion of the **County**, such alteration, modification or new construction will injure the roadway or endanger the traveling public using said roadway, the **County** shall have the right, after receipt of such notice, to prescribe such regulations and rules for the work proposed by **Owner** as the **County** deems necessary for the protection of the roadway facility and the traveling public using said roadway; provided further, however, that such regulations and rules shall not extend to the requiring of the placement of intended overhead lines underground or the routing of any lines outside of the area of joint usage above described.

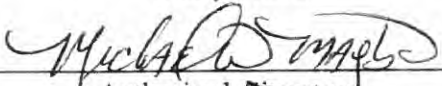
In the event of an emergency, it being evident that immediate action is necessary for protection of the public health and safety and to minimize property damage and loss of investment, either party hereto may at their own responsibility and risk make necessary emergency repairs, notifying the other party hereto of this action as soon as is practical.

Participation in actual costs incurred by the **Owner** for any future adjustment, removal or relocation of utility facilities required by roadway construction shall be in accordance with this Agreement and the laws of the State of Texas. Except as expressly provided herein, (1) the **Owner's** rights of access to the through-traffic roadways and/or ramps shall be subject to the same rules and regulations as apply to the general public, and (2) the **Owner** and the **County**, by execution of this agreement, do not waive or relinquish any right which they may have under the law or Constitution of this State.

In the event the **Owner** fails to comply with the requirements as set out herein, the **County** may take such action, as it deems appropriate to compel compliance.

IN WITNESS WHEREOF, the parties hereto have affixed their signatures.

Owner: Pedernales Electric Cooperative
Utility Name

By 
Authorized Signature

Title: Electric Distribution Planning and Design Mgr.

Date: March 8, 2016

Williamson County

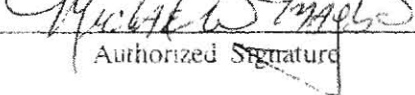
By _____
Authorized Signature

Title: Williamson County Judge

Date: _____

IN WITNESS WHEREOF, the parties hereto have affixed their signatures.

Owner: Pedernales Electric Cooperative
Utility Name

By: 
Authorized Signature


Title: Electric Distribution Planning and Design Mgr.

Date: March 8, 2016

Williamson County

By: 
Authorized Signature

Title: Williamson County Judge Comm., Pct. 1

Date:  4-26-16