REIMBURSEMENT AGREEMENT

This Reimbursement Agreement ("Agreement") is made and entered into and effective the 17 day of October, 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 Seward Junction Southeast: From US 183 at CR 259 to SH 29 to CR 266. (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:
  Installation and removal of poles, conductor, guy wires, anchors and facilities/equipment attached to poles. Relocation of privately owned secondary caused by relocation poles.
- County will reimburse Utility for Relocation, 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 13 Power Poles and removal of 11 Power Poles along with apparatus defined as Work = $ 78,572.27

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.

4. Upon completion of said Work, Utility shall make an accounting of final costs and provide County 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")
6. Proof of Property Interest – ROW-U-1A (Attachment "E")
7. Wilco-U-80A – Joint Use Agreement (Attachment "F")

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

UTILITY

Utility: Pedernales Electric Cooperative
Name of Utility

By: Michael W Maybe
Authorized Signature

Michael W. Maybe
Print or Type Name

Title: Elec Distribution/Planning Mgr

Date: 11-11-16

WILLIAMSON COUNTY

By: _____
Authorized Signature

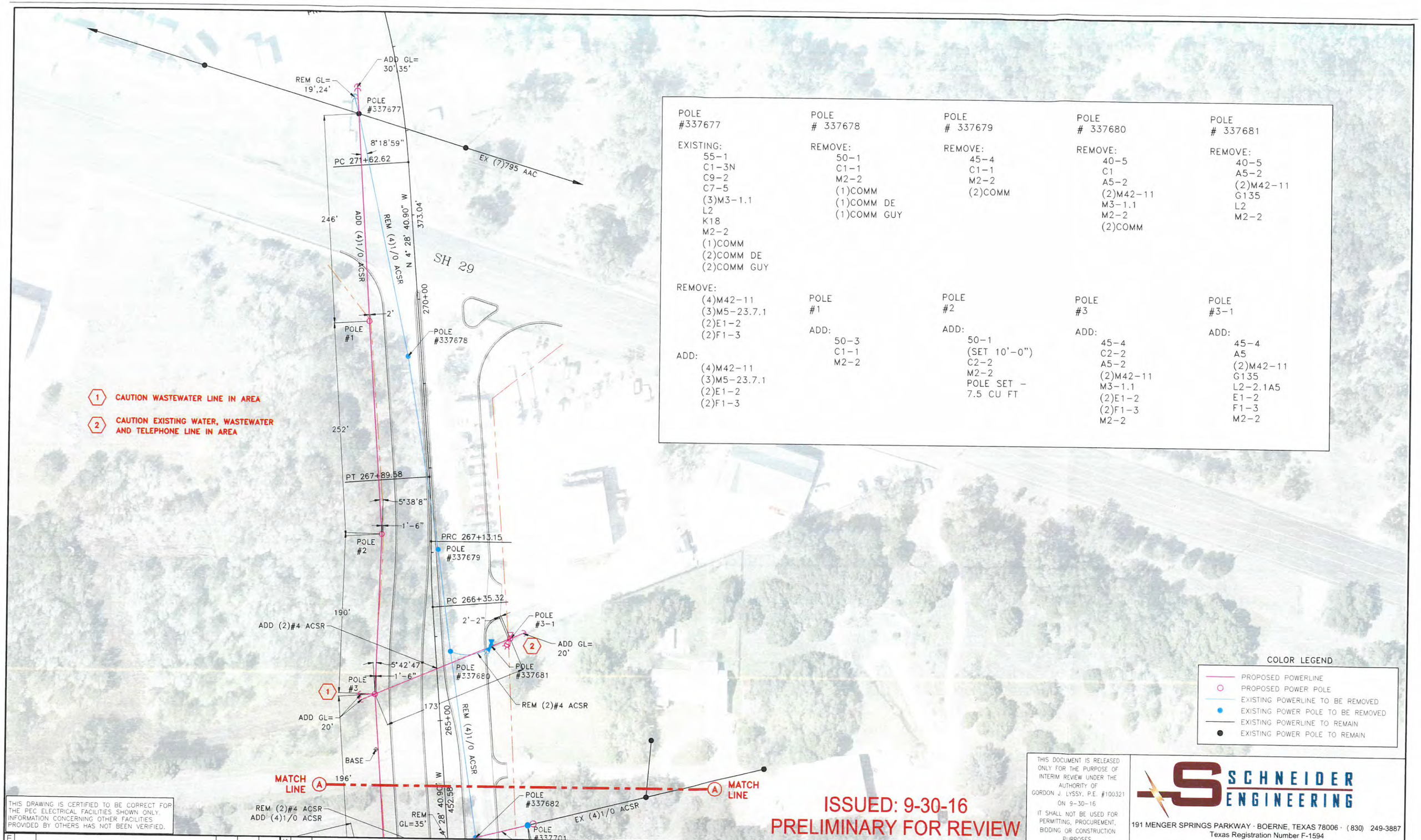
Dan A. Gattis
Print or Type Name

Title: Williamson County Judge

Date: _____

Attachment A

Plans, Specifications, and Estimated Costs



POLE #337677	POLE # 337678	POLE # 337679	POLE # 337680	POLE # 337681
EXISTING: 55-1 C1-3N C9-2 C7-5 (3)M3-1.1 L2 K18 M2-2 (1)COMM (2)COMM DE (2)COMM GUY	REMOVE: 50-1 C1-1 M2-2 (1)COMM (1)COMM DE (1)COMM GUY	REMOVE: 45-4 C1-1 M2-2 (2)COMM	REMOVE: 40-5 C1 A5-2 (2)M42-11 M3-1.1 M2-2 (2)COMM	REMOVE: 40-5 A5-2 (2)M42-11 G135 L2 M2-2
REMOVE: (4)M42-11 (3)M5-23.7.1 (2)E1-2 (2)F1-3 ADD: (4)M42-11 (3)M5-23.7.1 (2)E1-2 (2)F1-3	POLE #1 ADD: 50-3 C1-1 M2-2	POLE #2 ADD: 50-1 (SET 10'-0") C2-2 M2-2 POLE SET - 7.5 CU FT	POLE #3 ADD: 45-4 C2-2 A5-2 (2)M42-11 M3-1.1 (2)E1-2 (2)F1-3 M2-2	POLE #3-1 ADD: 45-4 A5 (2)M42-11 G135 L2-2.1A5 E1-2 F1-3 M2-2

COLOR LEGEND

- PROPOSED POWERLINE
- PROPOSED POWER POLE
- EXISTING POWERLINE TO BE REMOVED
- EXISTING POWER POLE TO BE REMOVED
- EXISTING POWERLINE TO REMAIN
- EXISTING POWER POLE TO REMAIN

THIS DRAWING IS CERTIFIED TO BE CORRECT FOR THE PEC ELECTRICAL FACILITIES SHOWN ONLY. INFORMATION CONCERNING OTHER FACILITIES PROVIDED BY OTHERS HAS NOT BEEN VERIFIED.

ISSUED: 9-30-16
PRELIMINARY FOR REVIEW

THIS DOCUMENT IS RELEASED ONLY FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF GORDON J. LYSSY, P.E. #100321 ON 9-30-16
IT SHALL NOT BE USED FOR PERMITTING, PROCUREMENT, BIDDING OR CONSTRUCTION PURPOSES.

SCHNEIDER ENGINEERING
191 MENGER SPRINGS PARKWAY · BOERNE, TEXAS 78006 · (830) 249-3887
Texas Registration Number F-1594

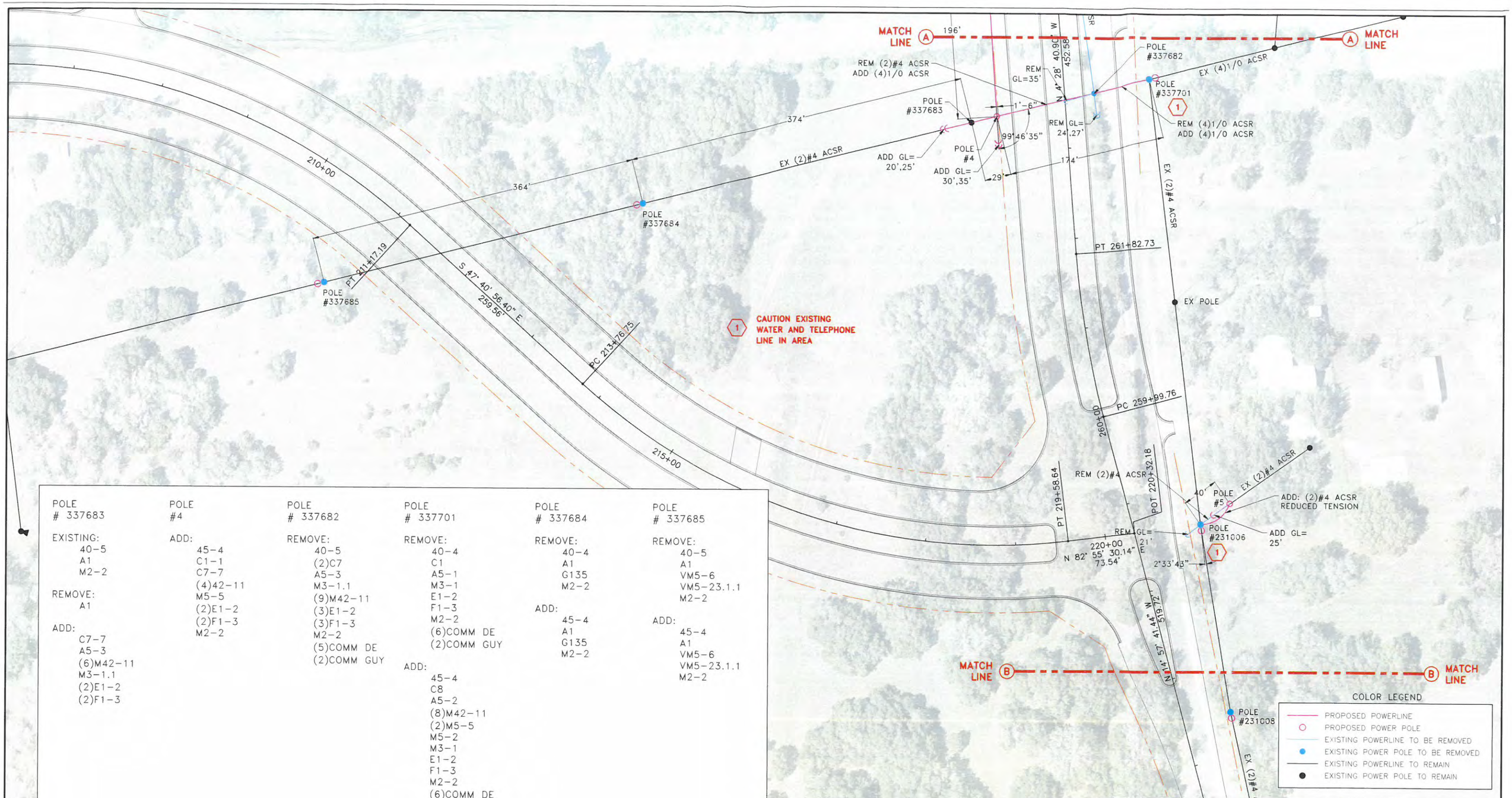
Ltr.	Date	Revision	By	Chkd.	Appd.
C	9/30	UPDATED WITH 100% COMMENTS	RBK	GJL	GJL
B	5/27	UPDATED WITH COMMENTS FROM COBB FENDLEY	RBK	GJL	GJL
A	5/16	INCLUDED NEW ANCHOR CONFLICT	RBK	GJL	GJL

DRAWN RBK
CHECKED GJL
APPROVED GJL

PEDERNALES ELECTRIC COOPERATIVE, INC.
JOHNSON CITY, TEXAS
WILCO STEWARD JUNCTION SE

PLAN VIEW

DATE 9-30-16
SCALE 1"=100'-0"
DWG. NO. 15PECL3010-1



POLE # 337683	POLE #4	POLE # 337682	POLE # 337701	POLE # 337684	POLE # 337685
EXISTING: 40-5 A1 M2-2	ADD: 45-4 C1-1 C7-7 (4)42-11 M5-5 (2)E1-2 (2)F1-3 M2-2	REMOVE: 40-5 (2)C7 A5-3 M3-1.1 (9)M42-11 (3)E1-2 (3)F1-3 M2-2 (5)COMM DE (2)COMM GUY	REMOVE: 40-4 C1 A5-1 M3-1 E1-2 F1-3 M2-2 (6)COMM DE (2)COMM GUY ADD: 45-4 C8 A5-2 (8)M42-11 (2)M5-5 M5-2 M3-1 E1-2 F1-3 M2-2 (6)COMM DE (2)COMM GUY	REMOVE: 40-4 A1 G135 M2-2 ADD: 45-4 A1 G135 M2-2	REMOVE: 40-5 A1 VM5-6 VM5-23.1.1 M2-2 ADD: 45-4 A1 VM5-6 VM5-23.1.1 M2-2
REMOVE: A1 ADD: C7-7 A5-3 (6)M42-11 M3-1.1 (2)E1-2 (2)F1-3					

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Texas Registration Number F-1594

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E					
D					
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A	5/16	INCLUDED NEW ANCHOR CONFLICT	RBK	GJL	GJL

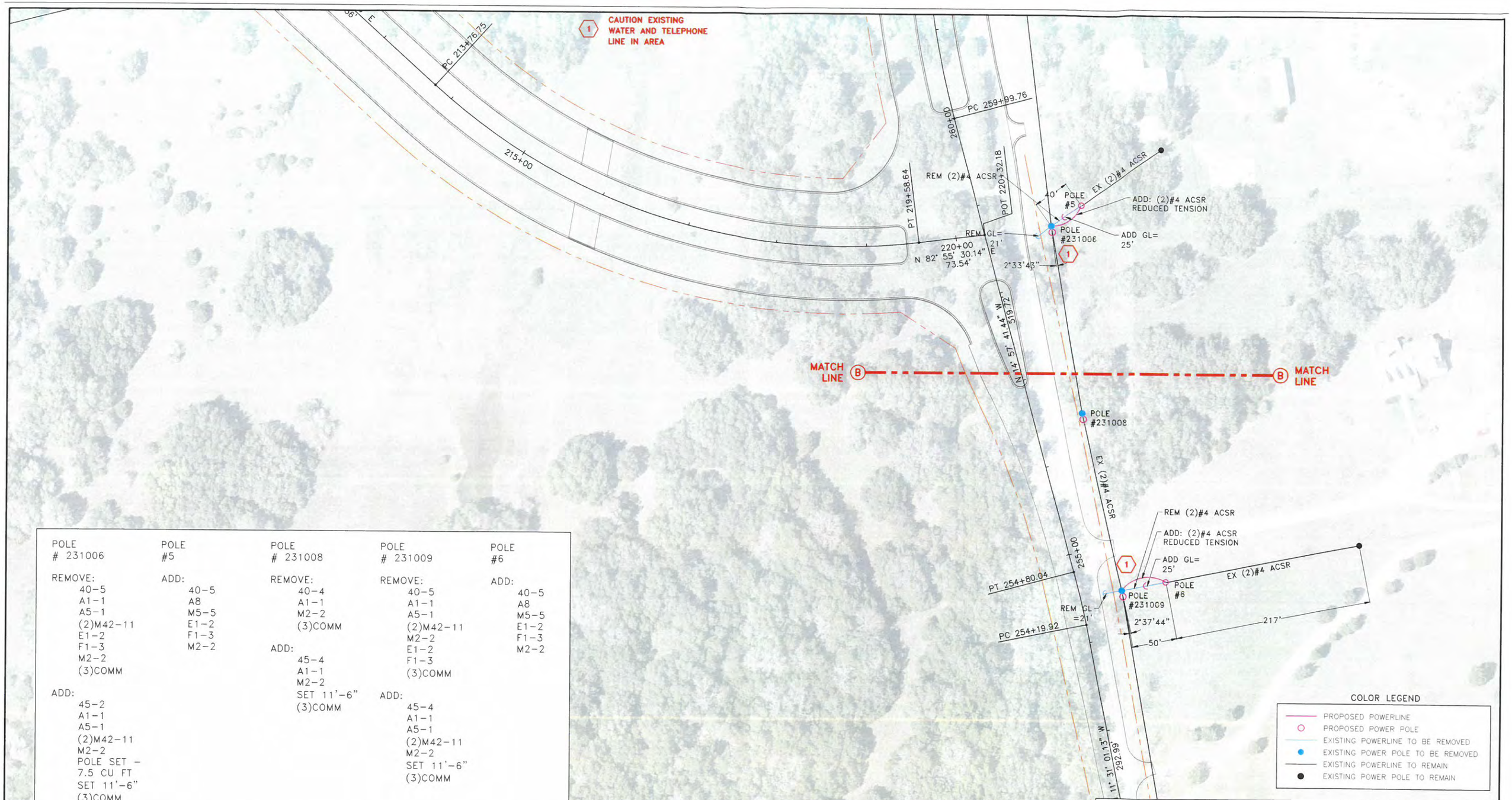
Ltr.	Date	Revision	By	Chkd.	Appd.
K					
J					
H					
G					
F					

DRAWN RBK
CHECKED GJL
APPROVED GJL

PEDERNALES ELECTRIC COOPERATIVE, INC.
JOHNSON CITY, TEXAS
WILCO STEWARD JUNCTION SE

PLAN VIEW

DATE 9-30-16
SCALE 1"=100'-0"
DWG. NO. 15PECL3010-2



POLE # 231006	POLE #5	POLE # 231008	POLE # 231009	POLE #6
REMOVE: 40-5 A1-1 A5-1 (2)M42-11 E1-2 F1-3 M2-2 (3)COMM	ADD: 40-5 A8 M5-5 E1-2 F1-3 M2-2	REMOVE: 40-4 A1-1 M2-2 (3)COMM	REMOVE: 40-5 A1-1 A5-1 (2)M42-11 M2-2 E1-2 F1-3 (3)COMM	ADD: 40-5 A8 M5-5 E1-2 F1-3 M2-2
ADD: 45-2 A1-1 A5-1 (2)M42-11 M2-2 POLE SET - 7.5 CU FT SET 11'-6" (3)COMM		ADD: 45-4 A1-1 M2-2 SET 11'-6" (3)COMM	ADD: 45-4 A1-1 A5-1 (2)M42-11 M2-2 SET 11'-6" (3)COMM	

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DRAWN RBK
CHECKED GJL
APPROVED GJL

PEDERNALES ELECTRIC COOPERATIVE, INC.
JOHNSON CITY, TEXAS
WILCO STEWARD JUNCTION SE

PLAN VIEW

DATE 9-30-16
SCALE 1"=100'-0"
DWG. NO. 15PECL3010-3

#4 ACSR, 400 ft RS
- Weight: 0.067 lbs/ft
- Hot Tension (120,F): 254 lbs
- Cold Tension (15, I): 689 lbs

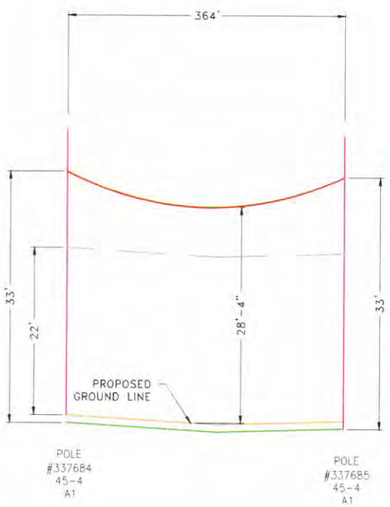
1/0 ACSR, 225 ft RS
- Weight: 0.1453 lbs/ft
- Hot Tension (120,F): 326 lbs
- Cold Tension (15, I): 1209 lbs

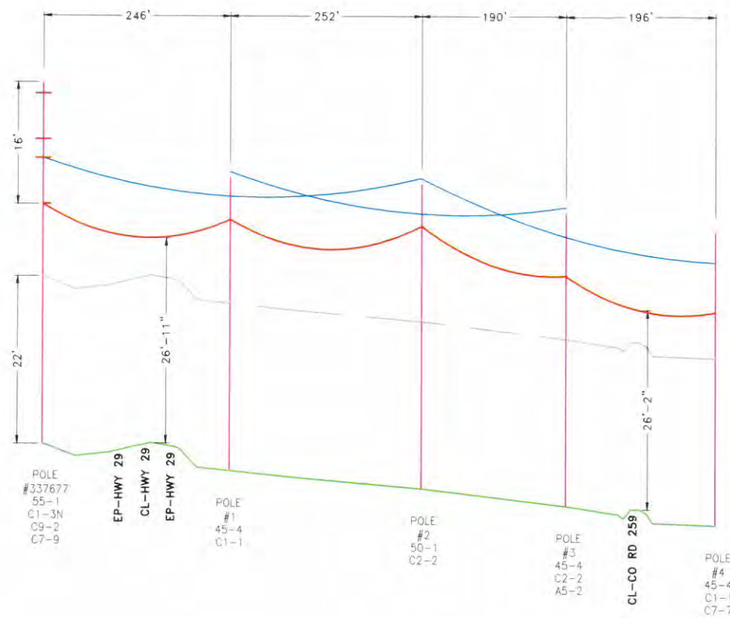
SLACK (120,F): 47 lbs

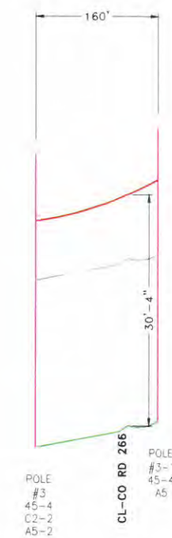
#4 ACSR, 400 ft RS
- Weight: 0.067 lbs/ft
- Hot Tension (120,F): 254 lbs
- Cold Tension (15, I): 689 lbs

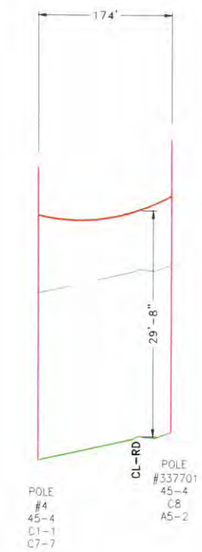
1/0 ACSR, 225 ft RS
- Weight: 0.1453 lbs/ft
- Hot Tension (120,F): 326 lbs
- Cold Tension (15, I): 1209 lbs

SLACK (120,F): 47 lbs









SCALE = V - 1:20
H - 1:200

COLOR LEGEND
- PROPOSED POWERLINE
- PROPOSED POWER POLE
- EXISTING POWERLINE TO BE REMOVED
- EXISTING POWER POLE TO BE REMOVED
- EXISTING POWERLINE TO REMAIN
- EXISTING POWER POLE TO REMAIN

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ISSUED: 9-30-16
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SCHNEIDER ENGINEERING
191 MENGER SPRINGS PARKWAY · BOERNE, TEXAS 78006 · (830) 249-3887
Texas Registration Number F-1594

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DRAWN RBK
CHECKED GJL
APPROVED GJL

PEDERNALES ELECTRIC COOPERATIVE, INC.
JOHNSON CITY, TEXAS
WILCO STEWARD JUNCTION SE

PROFILE VIEW

DATE 9-30-16
SCALE 1"=100'-0"
DWG. NO. 15PECL3010-4

Seward Junction SE Cost Estimate

Description	Date	Comments	Qty	Rate	Extended Cost
Engineering Services					
Labor					
CADD Technician I		00C1	0.5	$ 60.00	$ 30.00
CADD Technician III		00C3	19	$ 75.00	$ 1,425.00
Project Technician I		00P1	29	$ 50.00	$ 1,450.00
Technical Secretary I		00S1	0.75	$ 55.00	$ 41.25
Technical Secretary III		00S3	1.75	$ 80.00	$ 140.00
Senior Technician I		00T1	75	$ 80.00	$ 6,000.00
Senior Technician II		00T2	86.5	$ 90.00	$ 7,785.00
Senior Technician V		00T5	18.25	$ 110.00	$ 2,007.50
Project Engineer I		0PE1	0.75	$ 85.00	$ 63.75
Project Engineer II		0PE2	5.5	$ 100.00	$ 550.00
Project Manager I		0PM1	51	$ 110.00	$ 5,610.00
Project Manager III		0PM3	0.5	$ 130.00	$ 65.00
Senior Engineer I		0SE1	3.25	$ 135.00	$ 438.75
Senior Engineer II		0SE2	1	$ 145.00	$ 145.00
Sub Total					*$ 25,751.25* ✓
Expenses					
Mileage					
Survey Mile	1/11/2016	From Schneider office in Boerne to job site in Liberty Hill.	197	$ 0.896	$ 176.51
Survey Mile	3/2/2016	From Liberty Hill in Cobb Fendley offices in Austin.	65	$ 0.896	$ 58.24
Survey Mile	3/30/2016	From Schneider Office in Boerne to job site in Liberty Hill.	136	$ 0.896	$ 121.86
Survey Mile	4/14/2016	Travel around job site.	14	$ 0.896	$ 12.54
Survey Mile	4/28/2016	From Schneider office in Boerne to Cobb Fendley offices in Austin.	72	$ 0.896	$ 64.51
Survey Mile	4/28/2016	From Cobb Fendley offices in Austin to Schneider office in Boerne.	130	$ 0.896	$ 116.48
Survey Mile	6/8/2016	From Schneider office in Boerne to job site in Liberty Hill then back to Boerne.	436	$ 0.896	$ 390.66
Survey Mile	6/22/2016	From Schneider office in Boerne to land owner in Liberty Hill.	160	$ 0.896	$ 143.36
Truck Mile	6/28/2016	From Cobb Fendley offices in Austin to Schneider office in Boerne.	51	$ 0.784	$ 39.98
Survey Mile	7/26/2016	From Schneider office in Boerne to land owner in Liberty Hill.	72	$ 0.896	$ 64.51
Survey Mile	8/18/2016	From Schneider office in Boerne to land owner in Liberty Hill.	230	$ 0.896	$ 206.08
Survey Mile	9/26/2016	From Schneider office in Boerne job site in Liberty Hill.	62	$ 0.896	$ 55.55
Survey Mile	9/29/2016	From Schneider office in Boerne to land owner in Liberty Hill.	101	$ 0.896	$ 90.50

Survey Mile	TBD	Estimated trip for field staking	300	$ 0.896	$	268.80
Survey Mile	TBD	Estimated trip for easement coordination	300	$ 0.896	$	268.80
Sub Total					$	*2,078.38* ✓
Meals						
Per Diem	1/11/2016	Steven Shaw			$	22.40
Per Diem	1/11/2016	Brandon Womack			$	22.40
Per Diem	1/12/2016	Steven Shaw			$	44.80
Per Diem	1/12/2016	Brandon Womack			$	44.80
Per Diem	1/13/2016	Steven Shaw			$	22.40
Per Diem	1/13/2016	Brandon Womack			$	22.40
Per Diem	TBD	Estimated meal for field staking			$	44.80
Per Diem	TBD	Estimated meal for field staking			$	44.80
Sub Total					$	*268.80*
Lodging						
Holiday Inn Express	1/12/2016	Steven Shaw			$	144.26
Holiday Inn Express	1/12/2016	Brandon Womack			$	144.26
Holiday Inn Express	4/27/2016	Dan Miller			$	63.75
Holiday Inn Express	TBD	Estimated stay for field staking			$	150.00
Sub Total					$	*502.27*
Total for Engineering Services					**$**	**28,600.70** ✓
Construction						
Utility Costs (Material and Labor)		see attachment for details			$	*44,861.44* ✓
Private Electrician		see attachment for details			$	*2,110.88* ✓
ROW		see attachment for details			$	~~*3,000.00*~~ $2,999.25
Total for Construction					**$**	~~**49,972.32**~~ 49,971.57
TOTAL					**$**	~~**78,573.02**~~ 78,572.27 mH

Attachment B

Utility's Schedule of Work and Estimated Date of Completion

Estimated Start Date: 12/1/2016

Estimated Completion Date: 12/31/2016

Contingent on completion of land agreements. Construction to be completed approximately 1 month after construction begins.

Attachment C

Eligibility Ratio

See Attachment "E" for proof of property interest, which is established at 100% eligible.

ATTACHMENT "C"

Seward Junction Southeast

DATE: 10/07/2016

ELIGIBILITY RATIO SUMMARY

Pedernales Electric Coop

SHEET No. & Sta. Limits		Poles Non-Eligible	Poles Eligible	Poles Outside of Project
15PECL3010-01	272+27 to 265+37	0	4	1
15PECL3010-02	258+57 to 263+69	0	2	2
15PECL3010-02	210+84 to 212+91	0	2	0
15PECL3010-03	254+48 to 258+57	0	2	0
	TOTAL =	**0**	**10**	**3**

Eligible =	10
Non-Eligible =	0
GRAND TOTAL =	**10**

ELIGIBILITY RATIO = 100.00%

Attachment D

Betterment Calculation and Estimates

Betterment does not exist in this agreement.

Attachment E

Proof of Property Interest

Attachment F

"TxDOT Permit"

Approval Form
Online version 11/2005

APPROVAL

To Mark Evans
Pedernales Electric Coop
PO Box 2048
Liberty Hill, TX 78642

Date 6/17/2016
Application No. AUS20160516105416
District App. No. 012
Highway SH 0029
Control Section 033701
Maintenance Section Williamson Co Maintenance
County Williamson

TxDOT offers no objection to the location on the right-of-way of your proposed utility installation, as described by Notice of Proposed Utility Installation No. AUS20160516105416 (District Application No. 012) dated 6/17/2016 and accompanying documentation, except as noted below.

Not applicable

When installing utility lines on controlled access highways, your attention is directed to governing laws, especially to Texas Transportation Code, Title 6, Chapter 203, pertaining to Modernization of State Highways; Controlled Access Highways. Access for serving this installation shall be limited to access via (a) frontage roads where provided, (b) nearby or adjacent public roads or streets, (c) trails along or near the highway right-of-way lines, connecting only to an intersecting roads; from any one or all of which entry may be made to the outer portion of the highway right-of-way for normal service and maintenance operations. The Installation Owner's rights of access to the through-traffic roadways and ramps shall be subject to the same rules and regulations as apply to the general public except, however, if an emergency situation occurs and usual means of access for normal service operations will not permit the immediate action required by the Utility Installation Owner in making emergency repairs as required for the safety and welfare of the public, the Utility Owners shall have a temporary right of access to and from the through-traffic roadways and ramps as necessary to accomplish the required emergency repairs, provided TxDOT is immediately notified by the Utility Installation Owner when such repairs are initiated and adequate provision is made by the Utility Installation Owner for convenience and safety of highway traffic.

The installation shall not damage any part of the highway and adequate provisions must be made to cause minimum inconveniences to traffic and adjacent property owners. In the event the Installation Owner fails to comply with any or all of the requirements as set forth herein, the State may take such action as it deems appropriate to compel compliance.

It is expressly understood that the TxDOT does not purport, hereby, to grant any right, claim, title, or easement in or upon this highway; and it is further understood that the TxDOT may require the Installation Owner to relocate this line, subject to provisions of governing laws, by giving thirty (30) days written notice.

If construction has not started within six (6) months of the date of this approval, the approval will automatically expire and you will be required to submit a new application. You are also requested to notify this office prior to commencement of any routine or periodic maintenance which requires pruning of trees within the highway right-of-way, so that we may provide specifications for the extent and methods to govern in trimming, topping, tree balance, type of cuts, painting cuts and clean up. These specifications are intended to preserve our considerable investment in highway planting and beautification, by reducing damage due to trimming.

Special Provisions:
Aerial TCP 2-1 12

You are required to notify TxDOT 48 hours (2 business days) before you start construction to allow for proper inspection and coordination of work days and traffic control plans. Use the UIR website for the 48-hour notification. DO NOT start construction until you have coordinated the construction start date and inspection with TxDOT. You are also required to keep a copy of this Approval, the Notice of Proposed Installation, and any approved amendments at the job site at all times.

Texas Department of Transportation
By Wayne Robinson
Title Utility Coordinator
District Austin

SPECIAL PROVISIONS FOR THE INSTALATION OF POWER AND COMMUNICATION LINES

Texas Department of Transportation Austin District Permit Office
7901 N. IH35 Bldg 1, Austin, TX 78753

The contractor performing the utility installation work will be held responsible for verifying the existence of all utility lines within the right of way (ROW) prior to performing ground work such as, but not limited to: trenching, digging or boring. If there are any traffic signals or street lighting within 1,000' of the approved assignment, the contractor must notify TX Dot's Traffic Signal Dept at 512-832-7200 for a cable locate. One Call **will not** locate utility lines that operate traffic signals, flashing beacons, or street lighting, belonging to TxDOT. It will be the contractor's responsibility to check with TxDOT before doing ground work that may damage these existing facilities. If any TxDOT traffic signal or street lighting system becomes damaged, the contractor must notify TxDOT immediately to coordinate repairs.

The applicant will be responsible for the safety and convenience of the traveling public at all times, and shall meet all applicable requirements of the "Texas Manual on Uniform Traffic Control Devices" to view this online: http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/toc.htm as well as any special TxDOT recommendations and requirements.

In work areas, where construction equipment might have direct contact with the roadway, it will be the responsibility of the contractor, and or utility company performing the work to keep the roadways clean and free of debris at all times. Any mud and or debris must be removed from the road immediately. Work must be suspended in inclement weather until the road surface becomes dry.

Utility companies or their contractors may work on TxDOT right of way (ROW) during daylight hours Monday thru Friday unless night time lane closures are required by TxDOT. No utility construction work will be allowed on Saturdays and Sundays unless the contractor has written permission from TxDOT personal reflected on the approved permit. Day Time lane closure hours are from 9:00 AM to 4:00 PM Monday through Friday. If Night Time Lane Closure is required by TxDOT, the times are from 8:00 PM to 5:00 AM Sunday Evening through Friday morning.

The **minimum** clearance's for aerial lines within the state ROW are as follows:
Communication and CATV lines shall be eighteen feet 18'.
Power lines twenty-two feet 22'.
Bridges and roadways with grade separation require thirty feet 30'.

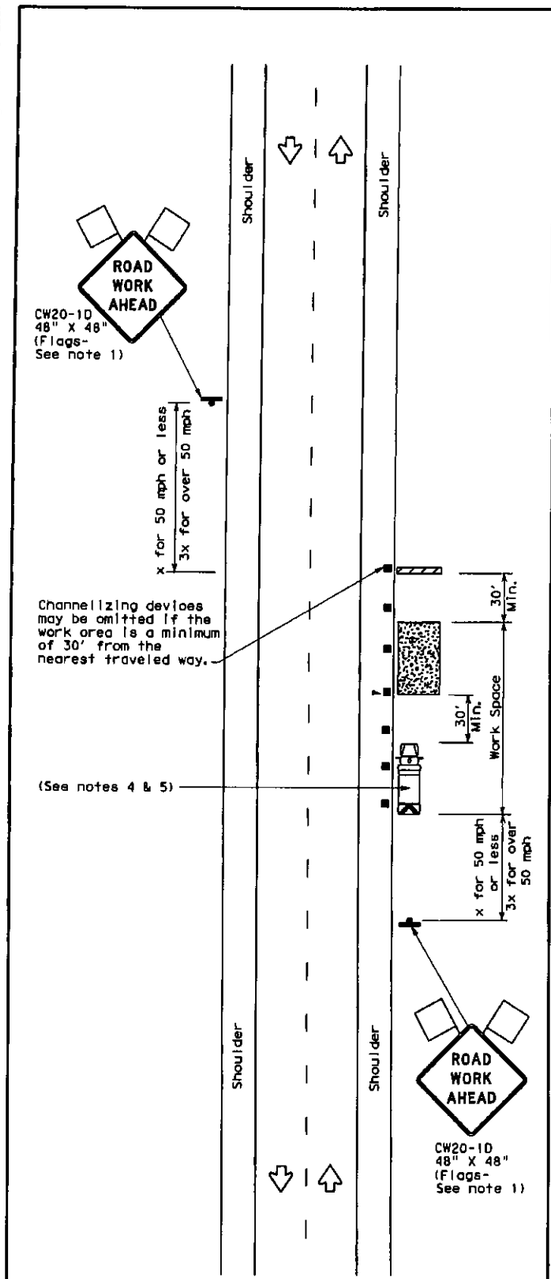
All poles, cable closures, and risers for underground utilities shall be located within eighteen inches (18") of the right-of-way line.

No guy wires shall be set in the right-of-way farther than three feet (3') from the property line.

Pole installations shall not exceed twenty-four inches (24") from the right-of-way line to the centerline of pole. The base of the pole and or where the pole enters the ground should not exceed 36".

Damaged or missing monuments, signs, or right-of-way markers, must be repaired or replaced at the expense of the utility company or their contractor. If this work is not done within a timely manner and to our standards, TxDOT will correct the deficiency and bill the utility for all associated expenses incurred.

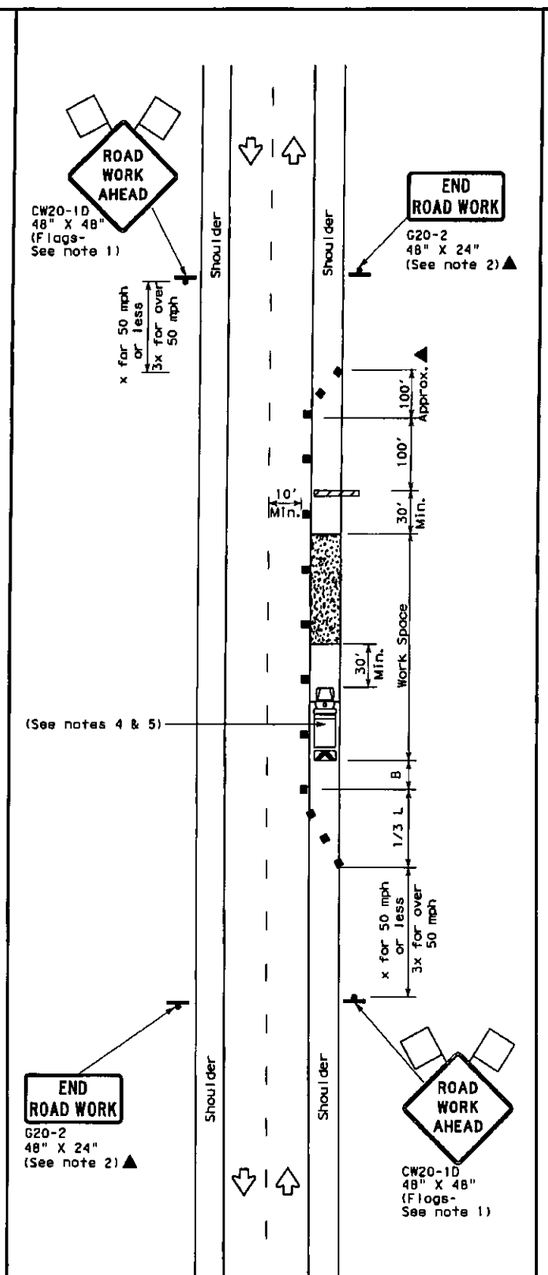
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



TCP (2-1a)

WORK SPACE NEAR SHOULDER

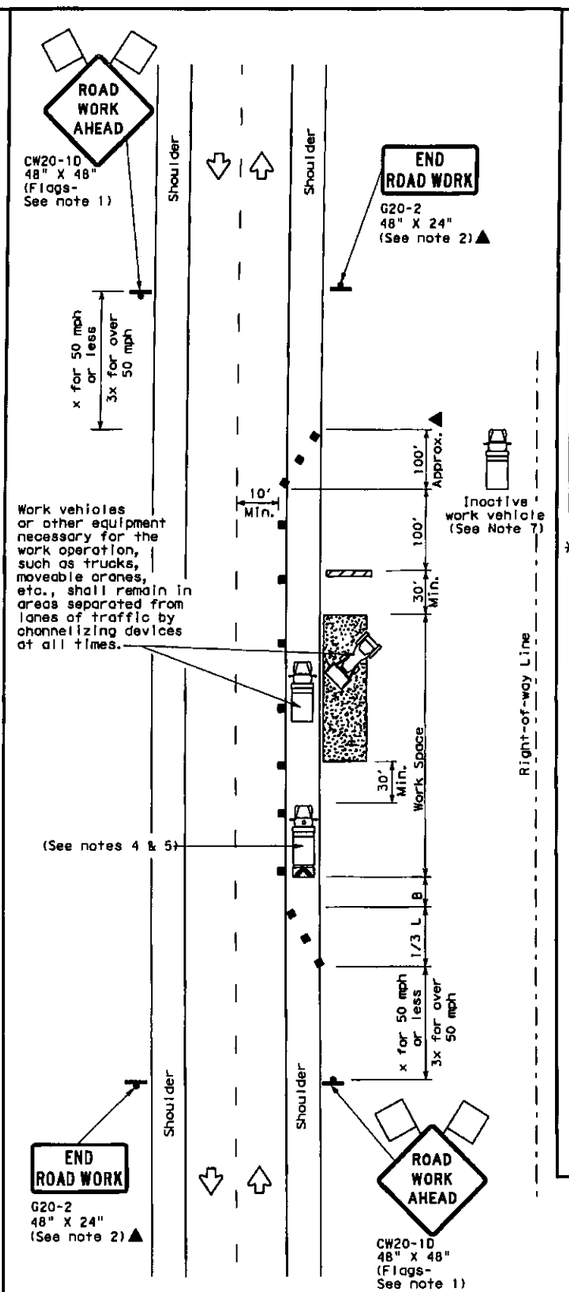
Conventional Roads



TCP (2-1b)

WORK SPACE ON SHOULDER

Conventional Roads



TCP (2-1c)

WORK VEHICLES ON SHOULDER

Conventional Roads

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
3. Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
4. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
6. See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
7. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
8. CW21-5 "SHOULDER WORK" signs may be used in place of CW21-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

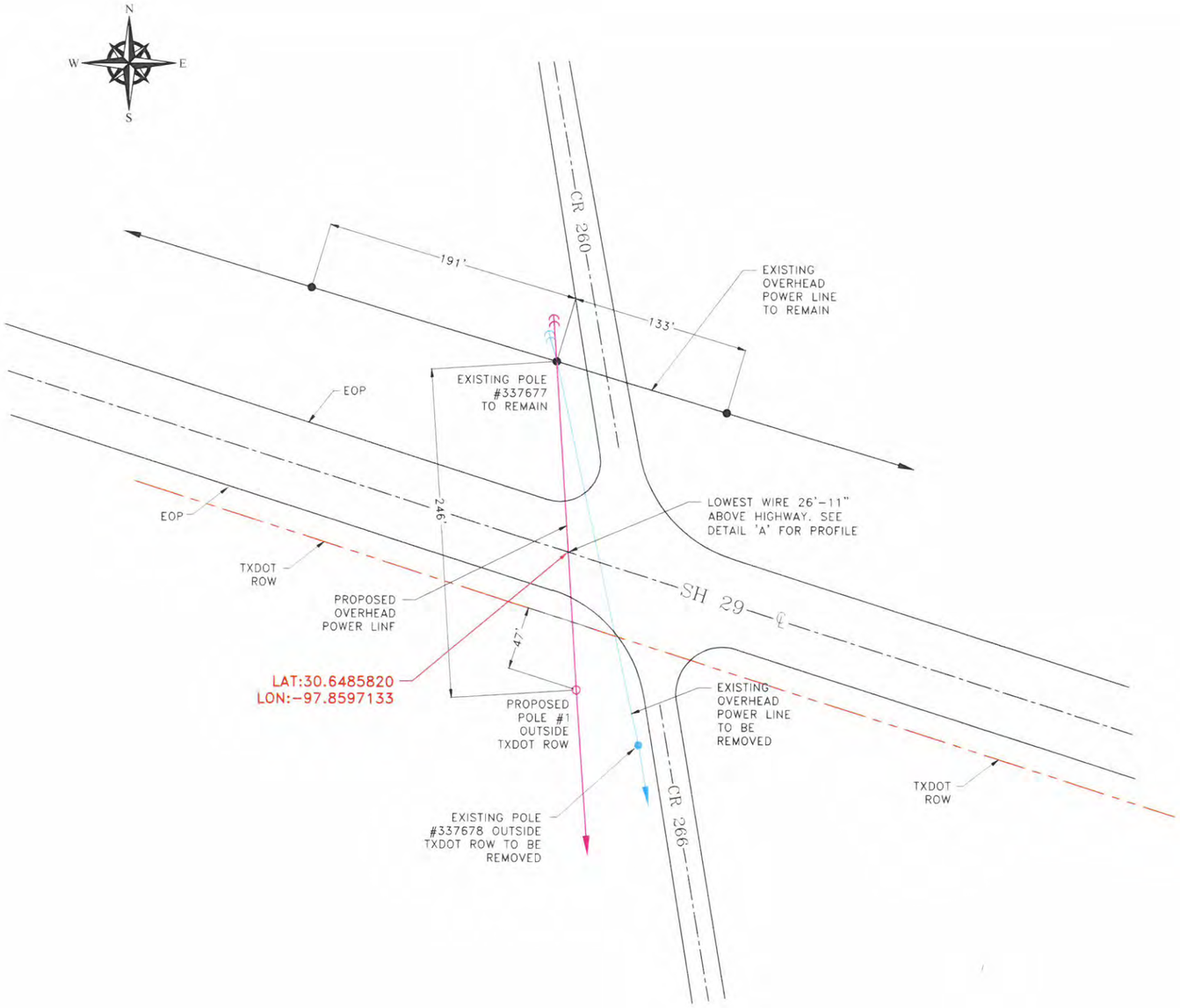
TCP(2-1)-12

©TxDOT December 1985

REVISIONS	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
2-94 2-12	CONT	SECT	JOB	HIGHWAY
8-95				
1-97	DIST		COUNTY	SHEET NO.
4-98				

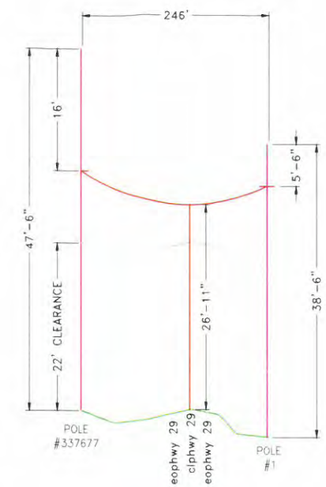
161

DATE:
FILE:



1/0 ACSR, 225 ft RS

- Weight: 0.1453 lbs/ft
- Hot Tension (120,F): 326 lbs
- Cold Tension (15, I): 1209 lbs
  SLACK (120,F): 47 lbs



DETAIL 'A'

SCALE = V - 1:20
H - 1:200

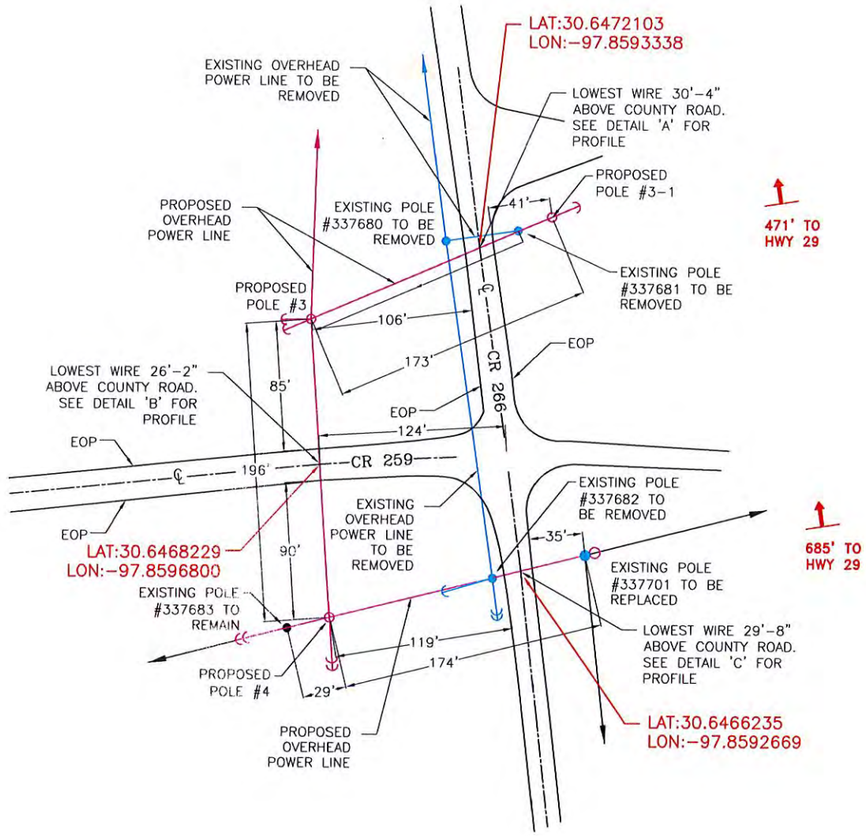
S.E. 15PECL3010
WILCO SEWARD JUNCTION SE
CR 259
SUBMITTED BY:
PEDERNALES ELECTRIC COOPERATIVE, INC. (PEC)
PERMIT FOR: HWY 29

TxDOT PERMIT DRAWING
HWY 29 3ø OVERHEAD POWER LINE (4 CONDUCTOR) TO BE RE-BUILT CROSSING TXDOT ROW AS SHOWN.

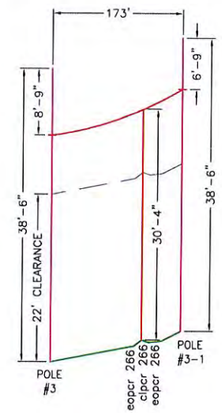
PROJECT IS LOCATED AT THE INTERSECTION OF HWY 29 AND CR 260/266.

WILLIAMSON COUNTY
THIS DRAWING MAY NOT INCLUDE ALL BURIED UTILITIES WITHIN TXDOT ROW.

ALL DIMENSIONS ROUNDED TO THE NEAREST FOOT OR DEGREE



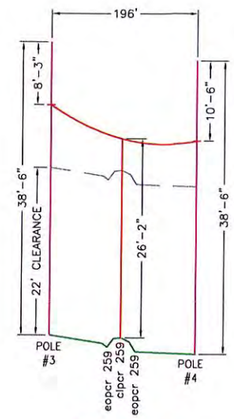
#4 ACSR, 400 ft RS
- Weight: 0.067 lbs/ft
- Hot Tension (120,F): 254 lbs
- Cold Tension (15, I): 689 lbs



DETAIL 'A'

1/0 ACSR, 225 ft RS
- Weight: 0.1453 lbs/ft
- Hot Tension (120,F): 326 lbs
- Cold Tension (15, I): 1209 lbs

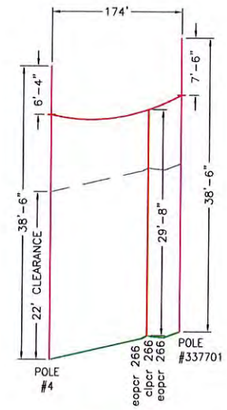
SLACK (120,F): 47 lbs



DETAIL 'B'

1/0 ACSR, 225 ft RS
- Weight: 0.1453 lbs/ft
- Hot Tension (120,F): 326 lbs
- Cold Tension (15, I): 1209 lbs

SLACK (120,F): 47 lbs



DETAIL 'C'

COLOR LEGEND
- PROPOSED POWERLINE
- PROPOSED POWER POLE
- EXISTING POWERLINE TO BE REMOVED
- EXISTING POWER POLE TO BE REMOVED
- EXISTING POWERLINE TO REMAIN
- EXISTING POWER POLE TO REMAIN

S.E. 15PECL3010
WILCO SEWARD JUNCTION
SUBMITTED BY:
PEDERNALES ELECTRIC COOPERATIVE, INC. (PEC)
PERMIT FOR: CR 259 AND CR 266

COUNTY ROAD PERMIT DRAWING
CR 259 AND CR 266 3ø OVERHEAD POWER LINE (4 CONDUCTOR) TO BE BUILT CROSSING COUNTY ROAD AS SHOWN.

FOR CR 266, PROJECT BEGINS 471' SOUTH OF HWY 29 AND ENDS 685' SOUTH OF HWY 29.

FOR CR 259, PROJECT IS LOCATED 124' WEST OF CR 266.

WILLIAMSON COUNTY
THIS DRAWING MAY NOT INCLUDE ALL BURIED UTILITIES WITHIN TXDOT ROW.

ALL DIMENSIONS ROUNDED TO THE NEAREST FOOT OR DEGREE

07/01/2016 1:35 PM * rastelo * N:\PEC Liberty Hill\15PECL3010 Wilco Seward Junction SE CR259 WO 102205\Drawings\TxDOT\CR 259, 266\15PECL3010 Wilco Seward Junction SE TxDOT.dwg

CobbFendley

LETTER OF TRANSMITTAL

To: HNTB
101 East Old Settlers Blvd. Suite100
Round Rock, Texas 78664

ATTENTION: Eddie Church 512-744-9082

Date: November 21, 2016
CobbFendley Job: 1403-088-03
Re: Seward Junction SE
PEC' Utility Agreement Package

WE ARE SENDING YOU THE FOLLOWING VIA: courier

☐ Prints ☒ Originals ☐ Other

QUANTITY	DESCRIPTION
5	PEC's Utility Agreement Package

PURPOSE OF TRANSMITTAL:

☒ For Approval ☐ For Your Use
☐ As Requested ☐ For Review & Comment

Mr. Chruch:
Please see the attached PEC' Utility Agreement Package for the above project, we have reviewed and approved it in the amount of $78,572.27.

If you have any questions, please let me know.

Thank you,

Received
NOV 21 2016
HNTB Corporation
Round Rock

Copy To File

Received By:
Date & Time:

SIGNED Melissa Horn
Melissa Horn, Principal