



Control Number: 49066



Item Number: 105

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LCRA TSC
TRANSMISSION MONTHLY CONSTRUCTION PROGRESS REPORT (MOPR)
for
April 2019

Public Utility Commission of Texas
Project No. **49066**

Utility's Project Number	Project Name	Location (City/County)	Description	Estimated (or Actual) Start Date	Finish Date (Construction Complete)	Date Energized (If Applicable)	Initial Estimated Project Cost (\$)	Final Estimated Project Cost (\$)	Final Actual Project Cost (\$)	% Variance	Percent Complete	Existing Voltage (kV)	Upgraded or New Voltage (kV)	Circuit Length (Miles)	Conductor Type & Size & Bundling	Structure Type(s)	Existing ROW Width (Feet)	Existing ROW Length (Miles)	New ROW Width (Feet)	New ROW Length (Miles)	Rule Section or PUC Control Number
1010556	Blumenlhal TL Addition (T637)	Gillespie, Kendall, Blanco	Construct a new 138-kV transmission line connecting the new Blumenlhal (CTEC) Substation to a tap point on the Kendall - Mountain Top 138-kV transmission line (T342)	10/2/2017	5/18/2018	5/18/2018	\$21,536,000 T-line, \$3,936,000 Substation, \$1,634,000 Tap	\$20,438,000 T-line, \$3,742,000 Substation, \$1,836,000 Tap			100	0	138	14.40 mi	3x1-795 ACSR "Drake"	Poles & H-Frames	0	0.00 mi	100'	14.40 mi	43599
1014204	Goldthwaite-Lampasas TL Upgrade (T629/T461/T138)	Lampasas, Mills, San Saba	Rebuild the existing 69-kV transmission lines (T461/T138) to 138-kV with new structures and conductor	3/1/2016	10/31/2017	10/31/2017	\$63,000,000	\$37,517,739			100	69	138	51.52 mi	Single 795 ACSR "Drake"	Steel H-Frames & Poles	Vanes	51.52 mi	n/a	n/a	25 101 (C)(5)(B)
1015208	Zorn-Manon 345kV TL Addition (CCN - Docket No 45601)	Guadalupe	Construct a new 345-kV transmission line to provide a transmission point of interconnection between Central Texas and San Antonio area	6/1/2018	5/24/2019		T-Line \$43.26 - 55.11 M; Substation \$7,805,000				90	0	345	18-24 mi	3x2-959.6 ACSR/TW "Suwannee"	Steel Poles	Vanes	7-11 mi	10 - 14 mi		45601
1014910	TXDOT US 83 Relief Route Rio Grande City-La Grulla (T485)	Starr	Modify existing transmission line (T485), Rio Grande City-La Grulla, to accommodate road expansion by TXDOT.	11/9/2018	11/30/2018	11/30/2018	\$220,000	\$317,464			100	138	138	31.66 mi	3x1-795 ACSR/AW "Drake/AW"	Steel Poles	Vanes	31.66 mi	n/a	n/a	25,101 (C)(5)(B)
1014447	Lockhart - Luling TL Upgrade (T184)	Caldwell	Rebuild existing transmission line (T18) Luling - Lockhart, to achieve the full MVA capability of the existing conductor	3/31/2017	1/16/2018	1/16/2018	\$5,530,000	\$4,028,655			100	138	138	16.90 mi	3x1-795 ACSR/SD "Conductor" & 3x1-795 ACSR "Drake"	Wood H-Frames, Steel Poles, Steel Lattice Towers	80'-100'	16.90 mi	n/a	n/a	25,101 (C)(5)(B)
1014352	Leander - Round Rock TL Addition (CCN)	Williamson	Construct a new 138-kV transmission line to provide a transmission point of interconnection to two load-serving substations	1/2/2019	2/20/2020		T-Line \$ 67.6 - 99.6 M, Substations \$ 14.9 - 17.4 M				20	0	138	11-22 mi	3x2-795 ACSR "Drake"	TBD, Poles and/or H-Frames	0	0.00 mi	Vanes, 80'-100'	25,101 (C)(5)(B)	45866
1016221	Cuero Hydro - Luling TL Overhaul (T542)	DeWitt, Gonzales, Caldwell	Rebuild the 10 miles (phase 1) of existing 69 kV transmission line (T542), to 138 kV capable with new structures, conductor, and OPGW	1/15/2017	5/31/2017	6/2/2017	\$9,022,000	\$6,329,390			100	69	69	53.9 mi	3x1-795 ACSR "Drake" & 3x1-2/0 ACSR "Quail"	Steel & Concrete Poles	Blanket/Centerline/50' 30"	53.9 mi	n/a	n/a	25 101 (C)(5)(B)
1014216	Elgin Switch-Gilfield Creek TL Overhaul (T421)	Bastrop, Travis, Williamson	Transmission line overhaul, replace poles, cross arms, X-braces, insulators and conductor	1/27/2017	5/25/2017	6/30/2017	\$1,657,309	\$1,678,489			100	138	138	12.9 mi	3x1-1433.6 ACSR/TW "Memmack"	Wood H-Frames & Steel Single Poles	100'	12.9 mi	n/a	n/a	25 101 (C)(5)(B)
1016205	Shadow Glen Circuit Breaker Addition (T574)	Travis	Replace approximately 0.5 miles of OPGW outside of Harris Branch Substation	3/14/2017	8/30/2017	8/11/2017	1,788,544	\$1,459,579			100	138	138	7.76 mi	3x1-795 ACSR "Drake"	Concrete Poles & Lattice Tower	100'	7.76 mi	n/a	n/a	25 101 (C)(5)(B)
1015455	Upton Circuit Breaker Addition (T441)	Upton	Modify existing transmission line (T441) Benedum-Crane LCRA, to accommodate substation construction at the Upton Substation	3/10/2017	8/4/2017	8/14/2017	\$1,241,839	\$681,181			100	138	138	26.99 mi	3x1-1233.6 ACSR/TW "Yukon"	Steel Poles	80' CL	26.99 mi	80' Centerline	0.09 mi	25 101 (C)(5)(A)
1016207	Smithville - Winchester (T175)	Bastrop, Fayette, Lee	Transmission line overhaul, replace Poles, cross arms, X-braces, insulators and conductor	8/16/2017	4/6/2018	4/6/2018	\$10,677,730	\$5,738,552			100	138	138	14.56 mi	3x1-795 ACSR "Drake"	Steel & Concrete Poles	Vanes	14.56 mi	n/a	n/a	25 101 (C)(5)(B)
1017382	FPP - Lytton Springs Storm Hardening (T255)	Bastrop, Caldwell, Fayette	Modify a number of existing lattice tower structures on T255 to meet storm hardening requirements	4/3/2017	6/30/2017	6/30/2017	\$1,088,000	\$745,673			100	345	345	61.12 mi	3x2-715.5 ACSR "Redwing"	Steel Lattice	100'	61.12 mi	n/a	n/a	25 83(a)(3)
1005486	Sherwood Shores Circuit Breaker Addition (T187)	Burnet	Modify existing transmission line (T187) Ferguson-Coronado, to accommodate substation construction at the Sherwood Shores Substation	7/17/2017	6/1/2018	5/29/2018		\$528,355			100	138	138	21.54 mi	3x1-795 ACSR "Drake"	Steel H-frames & Poles	Vanes	21.54 mi	80'	n/a	25 101 (C)(5)(A)
1016176	Arco Tap Circuit Breaker Addition (T442)	Crane	Modify existing transmission line (T442) Crane LCRA-Pleasant Farms, to accommodate substation construction at the new Arco Tap Substation	3/15/2018	5/2/2018	4/13/2018		\$1,175,206			100	138	138	24.25 mi	3x1-1233.6 ACSR/TW "Yukon"	Steel & Concrete Poles	Vanes	24.25 mi	50'	n/a	25 101 (C)(5)(A)
1017026	Manor-Cedar Hills TL Addition (T495) Phase 1 (Flood Remediation Substation Upgrade - 1016539)	Travis	On T495 remove (structure #112) concrete pole and replace with two concrete Poles	7/5/2017	10/28/2017	10/19/2017	\$387,000	\$197,611			100	138	138	8.21 mi	3x1-795 ACSR "Drake"	Concrete Poles, Steel Poles & Lattice Tower	100'	8.21 mi	n/a	n/a	25.101(C)(5)(B)

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1015477	Henne-McCarty Lane TL Upgrade (T233)	Comal, Hayes	Rebuild the existing 138kV transmission line, T233, with new structures and conductor	8/1/2017	1/8/2018	1/8/2018	\$7,353,155	\$7,014,259	\$5,985,533	0%	100	138	138	6.6 mi	3x1-959.6 ACSS/TW "Suwannee"	Concrete Poles, Steel Poles & Lattice Tower	100'	6.6 mi	n/a	n/a	25 101(C)(5)(B)
1016189	Fayette Power Project 345kV BUS Tie (CCN - Docket No. 47218)	Fayette	Construct a new single circuit 345-kilovolt (kV) transmission line to increase the bus capacity between the existing Fayette Power Project Yard #1 and Yard #2 substations	3/5/2018	6/15/2018	6/27/2018	T-Line \$1.1 M, Substations \$3.6 M	T-Line \$1.8 M, Substations \$4.3 M			100	0	345	0.26mi	3x2-1590 Kcmil ASCR Falcon	Steel Poles	0	0	100'	0.26mi	47218
1015981	Lincoln Substation Addition (T155)	Lee	Modify existing transmission line, T155, Giddings-Levington, to accommodate substation construction at the new Lincoln Substation	8/1/2017	10/10/2017	10/24/2017	\$1,181,500	\$1,556,253			100	138	138	15.24 mi	3x1-795 ACSC "Drake"	Steel Lattice, Steel Poles, & Wood H-Frames	Varies	15.24 mi	80'	0.4 mi	25 101 (C)(5)(A)
1016925	Altair-Garwood T546 TL Upgrade (PHI)	Colorado	Structure replacement & addition to meet NESC required clearances for safe distance and system reliability. (PHI - GOAB Switch Install)	9/18/2017	11/24/2017	11/24/2017	\$746,316	\$1,073,010			100	69	69	9.27 mi	Raven ASCR & 1/0 & Single	Wood H-Frames, Single Pole, & Wood DE	10' Centerline, 60' Centerline, & Blanket Easements	9.27 mi	n/a	n/a	25 101(C)(5)(B)
1017377	Flatonia-Waelder TL Overhaul (T513)	Fayette, Gonzales	Tear-down/rebuild (T513) and upgrade to 138-kV capable with OPGW shield wire	12/27/2017	3/30/2018	3/30/2018		\$8,802,782			100	69	69	11.79 mi	3x1-795 ACSC "Drake"	Concrete Poles & Steel Poles	Centerline	11.79 mi	n/a	n/a	25 101(C)(5)(B)
1018730	Fulton-Rockport 69kV TL Restoration (T474)	Aransas	Emergency storm repairs to replace failed hardware	8/31/2017	9/6/2017	9/6/2017	\$1,000,000	\$985,284			100	69	69	7.35 mi	3x1-795 ACSC "Drake"	Steel Poles	Varies	7.35 mi	n/a	n/a	25 101(C)(3)
1017385	Harwood-Waelder TL Overhaul (T145)	Gonzales	Tear-down/rebuild Upgrade to 138-kV capable with OPGW shield wire	1/8/2018	5/31/2018	5/18/2018		\$8,884,835			100	69	69	12.39 mi	3x1-795 ACSC "Drake"	Concrete Poles & Steel Poles	Centerline	12.39 mi	n/a	n/a	25 101(C)(5)(B)
1017338	Austrop-Bastrop City-Sim Gideon Storm Hardening (T171/T172/T231)	Bastrop, Travis	Replace 24 double-circuit lattice tower structures with 21 steel lower pole structures and 3 lattice dead-end towers, install OPGW	2/9/2018	6/29/2018	6/29/2018	\$4,795,575	\$7,692,220			100	138	138	34.42 mi	3x1-795 ACSC "Drake"	Steel Lattice	125'	34.42 mi	n/a	n/a	25 101(C)(5)(B)
1016108	Fayetteville-FPP 138kV TL Overhaul (T253) (Fayetteville-FPP 138kV TL Overhaul - 1016108)	Fayette	Tear-down/rebuild and upgrade to 138-kV capable with OPGW shield wire	1/12/2018	5/25/2018	6/1/2018	\$5,670,000	\$6,700,000			100	69	138	6.9 mi	3x1-959.6 ACSS/TW "Suwannee"	Concrete langleis with steel deadends	85', 95', 125'	6.9 mi	n/a	n/a	25 101(C)(5)(B)
1017381	FPP - Fayetteville (T210/T211)	Fayette	Storm Hardening of lattice towers	4/3/2018	6/29/2018	6/27/2018		\$349,235			100	345	345	8.89 mi	3x1-795 ACSC "Drake"	Steel Lattice	100' Centerline, 200' Triangular, and T-Shaped Easements	8.89 mi	n/a	n/a	25 101(C)(5)(B)
1017998	Hamilton Road - Uvalde Fiber Addition (T570), (T624) & (T464)	Val Verde, Kinney, Uvalde	Replace 25 structures to support new OPGW	1/29/2018	3/10/2019	3/10/2019		\$9,391,760			100	138	138	70.6 mi	3x1-ACSS "Drake"	Steel Poles	Varies	70.6 mi	n/a	n/a	25 101 (C)(5)(B)
1017838	Kendall - Fredericksburg TL Fiber Build Out (T120)	Kendall, Gillespie	Replace static arm on 70 H-frame structures, install 1 new steel dead-end pole, and install 2 new guyed wood h-frames to support new OPGW	4/16/2018	8/28/2018	6/19/2018		\$2,577,512			100	138	138	20.55 mi	3x1-795 ACSC "Drake"	Wood H-Frames, Single Pole, Wood DE	Centerline	20.55 mi	n/a	n/a	25 101 (C)(5)(B)
1017449	Sim Gideon - Winchester (T152/T175)	Bastrop, Fayette, Lee	Replace deteriorated OPGW suspension shoes and dampers from structure 60 to Winchester substation	9/1/2017	4/24/2018	4/17/2018		\$835,559			100	138	138	20.60 mi	3x1-795 ACSC "Drake"	Steel Lattice	Varies	14.58 mi	n/a	n/a	25 101 (C)(5)(B)
1017409	Tippett Circuit Breaker Addition (T552)(T674)(T666)	Pecos	Modify existing transmission line (T552) North McCamey-West Yates Switch, to accommodate construction at Tippett Substation	3/20/2018	5/29/2018	5/25/2018		\$2,714,234			100	138	138	10.76 mi	3x2-795 ACSC "Drake"	Concrete & Steel Poles	Centerline	10.76 mi	n/a	n/a	25 101 (C)(5)(B)
1017392	Lon Hill - Nueces Bay TL Upgrade (T437)	Nueces	Replace 22 structures to increase clearances on transmission line spans in order to meet LCRA TSC minimum design clearances	1/8/2018	4/25/2018	4/25/2018		\$4,379,646			100	138	138	17.3 mi	3x2-795 ACSC "Drake"	Concrete & Steel Poles, Steel DE H-Frame	Varies	17.3 mi	n/a	n/a	25 101 (C)(5)(B)

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1015487	Kerrville Stadium-Harper Rd TL Upgrade (T144)	Kerr	Rebuild the existing 138kV transmission line (T144) with new structures and conductor	2/6/2018	4/17/2018	4/11/2018		\$3,742,315			100	138	138	1.5 mi	3x2- 795 ACSR "Drake"	Steel Poles	Varies	1.5 mi	n/a	n/a	25 101 (C)(5)(B)
1015116	Henne-Comal TL Upgrade (T235)	Comal	Rebuild the existing 138kV transmission line (T235) with new structures and conductor	1/10/2018	5/14/2019		\$9,574,929	\$10,813,314			80	138	138	7.51 mi	3x1- 959.6 ACSS/TW "Suwannee"	Steel Poles	Varies	7.51	n/a	n/a	25 101 (C)(5)(B)
1017347	Mendoza-Colton-Eloy (T397)	Caldwell, Travis	Add circuit breakers at Colton Substation Add OPGW to (T397) Mendoza - Colton - Eloy Replace structures that are currently not capable of supporting OPGW	2/8/2018	5/18/2018	5/18/2018		\$8,900,000			100	138	138	12.9 mi	3x1- 795 ACSR "Drake"	Concrete Poles, Steel Poles and Wood H- frames	Varies	12.9 mi	n/a	n/a	25 101 (C)(5)(B)
1017387	Harwood-Luling Double Circuit TL OH Phase 1(T145)(173) , Luling-Waelder TL Add Phase 2 (T145)	Caldwell, Gonzales	Replace 45 double-circuit lattice tower structures with double circuit steel Poles and add OPGW on (T145/T173) Harwood-Luling and Luling-Waelder	2/26/2018	5/10/2019	Ph. 1 6/29/2018	\$ 2,555,441 (phase 1 & 2)	\$ 7.3M (phase 1 & 2)			Phase 1 - 100 , Phase 2 - 0	138	138	Phase 1 - 12.9 mi, Phase 2 - 21.85	Phase 1 - 3x2- 795 ACSR "Drake", Phase 2 Drake 795 ACSR & 26/7 & Single	Concrete Poles, Steel Poles & Wood H- frames	100' Centerline	Phase 1-19.4 mi, Phase 2 - 21.85 mi	n/a	n/a	25 101 (C)(5)(B)
1016106	Gonzalez - Luling TL Overhaul (T173)	Caldwell, Gonzales	Replace 24 single circuit H-Frame structures and 1 lattice structure Repair 11 H-Frame structures and 1 lattice structures	3/2/2018	5/24/2018	5/18/2018		\$1,412,000			100	138	138	19.45 mi	3x1- 795 ACSR "Drake"	Wood H- frames & Steel Lattice	Varies	19.49 mi	n/a	n/a	25 101 (C)(5)(B)
1017859	Clear Springs-Marlon TL Addition (419)	Guadalupe	Replace 3 double-circuit lattice tower structures with 3 CREZ F5 lattice dead-end tower structures, install OPGW, Repair 1 cage/arm member at Structure #88, install new bundled Drake between new spans between A-Frames and new Towers and between #108A & #108B	2/15/2018	11/18/2018	11/18/2018		\$3,448,680			100	345	345	8.5 mi	3x2- 795 ACSR "Drake"	Steel Lattice	100' Centerline	8.5 mi	n/a	n/a	25 101(C)(5)(B)
1016350	Cuero-Guadalupe TL Overhaul (T542)	Dewitt	Replace 28 wood structures with single pole steel structures Add new 795 ACSR conductor and OPGW fiber to new structures	2/19/2018	4/26/2018	4/26/2018		\$2,200,817			100	69	69	3.07 mi	3x1- 795 ACSR "Drake"	Steel Poles	Blanket	3.07 mi	n/a	n/a	25 101 (C)(5)(B)
1016330	Bastrop West - Bluebonnet (T516)	Bastrop	Replace (2) lattice towers with two steel H- frame structures at Hwy 71 to meet ground clearances across the highway	6/15/2018	6/29/2018	6/25/2018		\$885,345			100	138	138	6.1 mi	3x1-795 ACSR "Drake"	Wood/steel H-Frames and steel lattice	Centerline	6.1 mi	n/a	n/a	25 101(C)(5)(B)
1017345	Butler Circuit Breaker Addition (T260)	Bastrop	Add ring bus at Butler Substation, transmission line required new terminations	2/20/2018	4/3/2018	3/22/2018		\$346,747			100	138	138	31.32 mi	3x1-795 ACSR "Drake"	Wood/steel H-Frames, steel lattice, steel Poles	Varies	31.32 mi	n/a	n/a	25 101(C)(5)(B)
1017375	Fayetteville - Salem TL Storm Hardening (T177/T211/T210)	Austin, Fayette, Washington	Replace bracing on 40 lattice transmission line structures to meet NESC storm hardening requirements	11/16/2018	2/25/2019	2/25/2019	\$854,229	\$4,247,676			100	138/345	138/345	19.35 mi	3x1 - 795 ACSR "Condor" & 3x2 -795 ACSR "Condor"	Steel Lattice	Varies	19.35 mi	n/a	n/a	25 101 (C)(5)(B)
1017856	San Marcos - Kyle Fiber Build-Out (T322)	Hays	Add OPGW from San Marcos to Canyon	3/19/2018	5/18/2018	5/18/2018	\$718,484	\$1,078,863			100	138	138	3.46 mi	2x1- 795 ACSR "Drake"	Steel Poles, Concrete Poles	Varies	3.46 mi	n/a	n/a	25 101 (C)(5)(B)
1016357	Giddings-Lexington (T155)	Lee	Increase the reliability of transmission facilities on the Giddings-Lexington (T155)138kV transmission line	1/25/2018	4/19/2018	4/12/2018		\$350,000			100	138	138	17.62 mi	3x1-795 ACSR "Drake"	Steel lattice & wood H- Frames	100'	17.62 mile	n/a	n/a	25 101 (C)(5)(B)
1017412	Webberville Circuit Breaker Addition (T673/T231)	Travis	Add OPGW to T231	1/30/2018	6/19/2018	5/11/2018		\$300,000			100	138	138	0.2 mi	3x1-795 ACSR "Drake"	Steel Poles	Varies	2 mi	n/a	n/a	25 101 (C)(5)(B)
1019417	US 385 Hwy Widening TXDOT (T451/T452/T455)	Crane	Remove and replace 4 Poles to allow TXDOT widening of US 385	7/10/2018	8/21/2018	8/21/2018	\$300,000	\$961,425			100	138	138	23.9 mi (T451) 23.3 mi (T452)	Bundled Drake ACSR	Concrete Poles	80' Centerline	23.9 mi (T451) 23.3 mi (T452)	80' Centerline	23.9 mi (T451) 23.3 mi (T452)	25 101 (C)(5)(B)

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1017403	Sim Gideon-Smithville TL Storm Hardening - (T150)	Bastrop	Increase the reliability of transmission facilities on the Sim Gideon - Smithville 13.8-mile 138-kV transmission line (T150)	7/17/2018	3/18/2019	3/18/2019	\$2,438,890	\$3,514,428			100	138	138	13.8 mi	795 ACSR Drake	Steel Poles & Hybrid Poles	80'	13.8 mi	80	13.8 mi	25 101 (C)(5)(B)
1017854	Fairland-Lago Vista TL Addition (T414)	Travis, Burnet	OPGW add and tower replacements	7/15/18	3/27/2019	3/27/2019	\$4,630,000	\$7,938,338			100	138	138	21.38	795 CONDOR ACSR/SD	Lattice Towers & Steel Poles	100' Centerline	21.38 mi	100' Centerline	21.38 mi	25 101 (C)(5)(B)
1017348	Cooks Point TL Addition (CCN)	Burleson	Construct a new 138-kV transmission line to provide a transmission point of interconnection to a new load-serving substation	10/5/2020	1/27/2022		T-Line \$ 35.1 - 43.5M Substation \$ 6.1 - 6.7 M				0	0	138	17-23 mi	2x1-795 ACSR "Drake"	TBD, Poles and/or H-Frames	0	0.00 mi	Vanes, 80'	17-23 mi	45838
1016356	Bellville S-Glidden TL Addition (T113) (Bellville S-Glidden TL Storm Hardening - 1016355)	Austin County/Colorado	Replace eleven (11) lattice tangent tower structures with steel pole structures to meet storm hardening requirements, the existing rating of the transmission circuit will be maintained at 110 MVA	8/23/2018	6/19/2019		\$4,900,000	\$5,581,304			65	69	69	31.24 mi	Existing (1)795 ACSR "Drake" New Bellville-Str 26 (1)959 ACSR "Suwannee" and Str 27-Glidden (1)795 ACSR "Drake"	Concrete H-Frame and Steel DE Str 27-Glidden Steel DE, Lattice Towers, and concrete tangents	120'	31.24 mi	120'	31.24 mi	25 101 (C)(5)(B)
1017847	Coronado-Fairland TL Addition (T110) (LCRA TSC Fiber Build-Out FY18-1017418)	Burnet/Llano	OPGW is being installed and multiple structures are being replaced or repaired to support the added fiber as part of the FY18 Fiber Build Out program	8/29/2018	5/15/2019		\$3.2M	\$5.6M			75	138	138	12.41 mi	795 ACSR CONDOR, 795 ACSR Drake, 72 ct OPGW	Steel lattice, & steel Poles	Vanes	12.41 mi	n/a	n/a	25 101 (C)(5)(B)
1017842	Gillespie-Horseshoe Bay TL Addition (T448) (LCRA TSC Fiber Build-Out FY18-1017418)	Gillespie/Llano	OPGW is being installed and multiple structures are being replaced or repaired to support the added fiber as part of the FY18 Fiber Build Out program	8/1/2018	4/16/2019		\$4.5M	\$7.6M			90	138	138	36.43 mi	795 ACSR Drake, 72 ct OPGW	Steel lattice	Vanes	36.43 mi	n/a	n/a	25 101 (C)(5)(B)
1017858	Burnet-Wirtz TL Overhaul (T218) (Burnet-Wirtz TL Overhaul - 1017657)	Burnet	Structure replacement and add OPGW	1/4/2019	12/17/2019		\$3,400,000	\$2,925,345			10	138	138	16.4 mi	795 ACSR Drake	Steel & Wood Poles	Vanes	16.4 mi	n/a	n/a	25 101 (C)(5)(B)
1016322	Bellville South - Waller TL Storm Hardening (T213) (Bellville South - Waller TL Storm Hardening - 1016321)	Austin/Waller	Increase reliability and capacity of transmission facilities on Bellville South to Waller	9/4/2018	5/15/2019		\$13,162,000	\$32,512,265			20	138	138	15.77 mi	795 ACSR Drake	Concrete & steel Poles	Vanes 85'	15.77 mi	n/a	n/a	25 101 (C)(5)(B)
1010353	Bighill to Kendall Bolt Tightening (T558/T559)	Williamson	Inspect each tower to tighten bolts and install designed locking mechanisms	9/24/2018	12/21/2018	12/21/2018		\$676,064			100	345	345	138 mi	Bundled 1926 9 Cumberland	Lattice Towers & Steel Poles	Varies 60' - 130'	138 mi	n/a	n/a	25 101(C)(5)(B)
1018931	Flatonia-Moulton South TL Addition (T134) (Shiner Circuit Breaker Addition - 1017402)	Lavaca	Increase transmission service reliability to the Shiner Substation	10/9/2018	2/11/2019	2/11/2019		\$191,071			100	138	138	11.1 mi	795 ACSR Drake	Concrete/Steel Poles	30', 40', 45', 60', 100'	11.1 mi	n/a	n/a	25 101 (C)(5)(A)
1017830	North McCamey - LCRA Crane TL Addition (T455) King Mountain Circuit Breaker Addition (Addition 1017830)	Upton	LCRA will install three circuit breakers, provide real-time monitoring at King Mountain Substation	10/1/2018	6/28/2019			\$819,692			90	138	138	23.08 mi	(2) 795 kmil ACSR "Drake"	Concrete & steel monoPoles	Centerline, 80'	23.08 mi	n/a	n/a	25 101 (C)(5)(A)
1017513	Airline-Naval Base TL Addition (T475) (Airline TL Relocation - 1017336)	Nueces	Relocate transmission facilities on (T475) and (T476). The present 69-kV configuration at Airline Substation does not allow for one power bank to serve as a backup for the other during outage	10/1/2019	10/29/2019		\$178,226	\$200,390			0	69	138	6.39 mi	(1) 795 kmil ACSR/AW "Drake"	Steel Monopole	Centerline, 16'	6.39 mi	n/a	n/a	25 101 (C)(5)(D)
1017515	Airline-Naval Base TL Addition (T476) (Airline TL Relocation - 1017336)	Nueces	Relocate transmission facilities on (T475) and (T476). The present 69-kV configuration at Airline Substation does not allow for one power bank to serve as a backup for the other during outage	3/28/2019	4/11/2019		\$135,000	\$164,344			75	69	138	7.98 mi	(1) 795 kmil ACSR/AW "Drake"	Steel Monopole	Centerline	7.98 mi	n/a	n/a	25 101 (C)(5)(D)

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1018756	Heines-Naval Base TL Addition (T685) (Heines Substation Addition - 1018743)	Nueces	Provide metering facilities. Provide transmission service to a load-serving substation. Provide real-time monitoring facilities at the Heines Substation. (Once Heines Substation Addition is complete, the transmission assets on (T476) will be renumbered to T685 Heines - Naval Base)	10/3/2018	10/25/2019		\$468,085	\$598,492			60	69	138	5.3 mi	(1) 795 kcmil ACSR/AW "Drake"	Steel Monopole	Centerline	5.3 mi	n/a	n/a	25 101 (C)(5)(A)
1018755	Arlene-Heines TL Addition (T476) (Heines Substation Addition - 1018743)	Nueces	Provide metering facilities. Provide transmission service to a load-serving substation. Provide real-time monitoring facilities at the Heines Substation	10/11/2018	10/25/2019		\$519,285	\$780,358			60	69	138	2.57 mi	(1) 795 kcmil ACSR/AW "Drake"	Steel Monopole		2.57 mi	n/a	n/a	25 101 (C)(5)(A)
1018663	RioPecos-HorseCrossing TL Addition (T451/ future T682)	Crane	Provide transmission service to a generator. (This circuit will be added to the open position on the structures on the (T451) Rio Pecos - Crane, after the project is complete the transmission line will be numbered T682 Rio Pecos - Horse Crossing)	9/23/2019	12/9/2019		\$952,312	\$1,310,979			0	0	138	0.78 mi	(2) 795 ACSR Drake	Steel/Concrete Monopoles	80' CL	0.78 mi	n/a	n/a	25 101 (C)(5)(C)
1019280	Winchester-Salem T170 TL Addition (T170) (Winchester Autotransformer Addition - 1017413)	Fayette	LCRA TSC will install a new autotransformer capacity, add new structures Winchester Substation	10/1/2018	4/13/2020		\$749,379	\$2,065,559			50	138	138	37.28 mi	(1) 795 kcmil ACSR/AW "Drake"	H-Frames, Steel Poles, & Lattice Towers	100' Centerline	37.16 mi	n/a	n/a	25 101 (C)(5)(A)
1017777	Winchester-Fayetteville TL Addition (T165) (Winchester Autotransformer Addition - 1017413)	Fayette	LCRA TSC will install a new autotransformer capacity, add new structures Winchester Substation	10/1/2018	4/13/2020		\$1,012,865	\$1,945,183			50	138	138	18.92 mi	(1) 795 kcmil ACSR/AW "Drake"	H-Frames, Steel Poles, & Lattice Towers	100' Centerline	18.75 mi	n/a	n/a	25 101 (C)(5)(A)
1017550	Raymond F Barker-Comfort TL Addition (T121) (Cypress Creek Circuit Breaker Project 1017351)	Lee/Fayette	Acquire 5 acres and expand new LCRA TSC facilities with a three-mg bus configuration	3/1/2019	5/10/2019			\$230,513			30	138	138	10.03 mi	1-795 ACSR "Drake"	Steel Monopoles	Vanes	10.03 mi	n/a	n/a	25 101 (C)(5)(A)
1017495	Brenham North - Waller TL Addition (T232) (Flood Mitigation - FY2018 System Upgrade 1017378)	Waller, Washington	Reduce flood risk and potential damage to substation equipment	9/16/2019	11/5/2019		\$1,819,270	\$2,157,848			0	138	138	12.94 mi	795 Drake ACSR & 630 0 TYPE 21 ACSS/TWC 7 (BETWEEN #17/1 TO #18/1)	Concrete Poles, Wood H-frame, Steel H-frame	75' @ single circuit, 85' @ double circuit	12.94 mi	75' @ single circuit, 85' @ double circuit	12.94 mi	25 101 (C)(5)(B)
1019038	Plum - La Grange TL Addition (T208) (Riverside Circuit Breaker Addition - 1018925)	Fayette	Increase the reliability of substation equipment at the Riverside Substation	1/28/2019	5/23/2019		\$356,355	\$1,589,877			70	138	138kv	8.39 mi	795 ACSR GAC Drake 3/8 EHS OPGW	Wood H-frame	Undefined Centerline	5.58 mi	undefined Centerline	5.58 mi	25 101 (C)(5)(B)
1019276	Harwood-Gonzales (T542) (Gonzales - Harwood TL Overhaul - 1018965)	Gonzales	Increase the reliability and capability of circuit (T542) on Cuero - Luling 53.3-miles of 69-kV transmission line for the 10 miles between City of Gonzales (S31) & Harwood Station (S397)	4/1/2019	10/25/2019		\$4,350,429	\$5,484,500			3	69	69 (138kV Capable)	9.97 mi	Single 795 ACSR "Drake"	Concrete & Steel Pole	Blanket, Centerline	9.97 mi	n/a	n/a	25 101 (C)(5)(B)
1017895	North McCarney-Robbins SW TL Addition (T456) (Robbins Switch Circuit Breaker Addition - 1017400)	Upton	Provide transmission service to a generator by constructing substation for interconnection	10/31/2018	5/13/2019			\$77,017			30	138kV	138	5.68 mi	2x 795 Drake ACSR	Concrete Poles	80'	5.68 mi	n/a	n/a	25 101 (C)(5)(A)
1017510	Tunas Creek - Mesa View TL Addition (T620) (Fourmile Circuit Breaker Addition 1017380)	Pecos	Increase transmission service reliability to the Fourmile Substation (formerly Indian Mesa/Onon/NWP Tap)	11/27/2018	9/30/2019			\$4,679,000			15	138	138	11.68 mi	3x2, 795 kcmil "Drake"	Steel & Concrete Poles	80'	11.68 mi	n/a	n/a	25 101 (C)(5)(B)
1017588	Tunas Creek-Mesa View SW TL Addition (T620) (Desert Mesa Circuit Breaker Addition 1017353)	Pecos	Increase transmission service reliability to the Desert Mesa Substation (formerly Desert Sky Tap #1). Provide real-time monitoring facilities at the Desert Mesa Substation. Increase the reliability of transmission facilities on the T620 Tunas Creek - Mesa View transmission line	10/31/2018	5/15/2019			\$284,333			50	138	138	16.4 mi	3x2, 795 kcmil "Drake"	Steel & Concrete Poles	80'	16.4 mi	n/a	n/a	25 101 (C)(5)(A)

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1019213	Round Rock TL Relocation (T627, T378)	Williamson	Increase the transmission service reliability to the Round Rock substation and to support the expansion of the substation by Oncor	1/7/2019	4/30/2019		\$446,000	\$1,529,332			90	138	138	5.1 mi	(1) 795 ACSR "Drake"	Steel Lattice, Steel H-Frame	100'	5.1 mi	n/a	n/a	25 101 (C)(5)(B)
1016702	Allair - Nada TL Addition (T545) (Glidden Area TL Upgrade - 1016219)	Colorado	OPGW (fiber) installation (T545) and Substation upgrade at Nada and Allair substations from 69kV to 138kV	12/3/2018	5/31/2019		\$2,312,000	\$6,632,944			80	69	138	14.12 mi	795 Drake ACSR & 2607 & Single	Steel, Wood, & Lattice	Blanket	14.12 mi	Blanket	14.1 mi	25 101 (C)(5)(B)
1019321	Lakeway-Marshall Ford T179 Addition (T179) (Lakeway AE Marshall Ford TL SH - 1019096)	Travis	Increase the reliability of circuit (T179) on the Lakeway (AE) - Marshall Ford 2.4 mile 138 kV transmission line	1/25/2019	5/17/2019		\$438,000	\$2,339,497			10	138	138	2.4 mi	(6x1) 795 ACSR "Drake"	Steel Towers	100'	2.4 mi	n/a	n/a	25 101 (C)(5)(B)
1019803	Lakeway-Marshall Ford Fiber Addition (T179) (LCRA Fiber Backbone FY 19 Telecom Upgrade - 1019084)	Travis	LCRA will install 2.42 miles of 72-count OPGW from Lakeway (AE) to Marshall Ford (T179)	2/13/2019	5/17/2019			\$392,000			10	138	138	2.4 mi	(6x1) 795 ACSR "Drake"	Steel Towers	100'	2.4 mi	n/a	n/a	25 101 (C)(5)(B)
1017760	Warda-Salem TL Addition (T667,T170) (Warda Circuit Breaker Addition - 1017411)	Fayette	Increase reliability of transmission facilities on the (T170) Winchester-Salem 34.8 mile 138kV transmission line. Cut-in to new A-frames at existing Warda Sub and renumber Warda to Salem as (T667)	12/1/2018	12/20/2018	12/20/2018		\$663,000			100	138	138	34.8 mi	Single (1/phase) 795kcmil ACSR "Drake"	Steel monopole	100'	34.8 mi	n/a	n/a	25 101 (C)(5)(B)
1019317	Rockport-Fulton T474 TL Addition (T474) Hurricane Response System Upgrade - 1019095	Nueces, Aransas	Increase reliability, repair storm damage, & upgrade circuit (T477) on the N Padre Tap-Port Aransas 18.23-mile 69-kV TL and circuit (T474) on the Fulton-Rockport 138-kV 7.36-mile 69-kV TL	2/7/2019	8/20/2019			\$852,895			18	69	69	7.4 mi	(1x) 795 ACSR/AW Drake	Steel Monopole, Concrete Monopole	Unknown (AEP-owned)	-	-	-	25 101 (C)(5)(B)
1017557	Deer Creek-Luling TL Addition (T538) (Darst Creek Circuit Breaker Addition - 1017352)	Guadalupe	Add four 138-kV, 3000A, 40kAIC circuit breakers in a ring bus configuration to Darst Creek substation	2/22/2019	5/17/2019			\$717,517			40	69	69	15.84 mi	Drake 795 ACSR, Single	Concrete & Steel	Blanket	15.84 mi	Blanket	15.84 mi	25 101 (C)(5)(B)
1017499	Bastrop West-Sim Gideon TL Addition (T410) (Flood Mitigation - FY2018 System Upgrade - 1017378)	Bastrop	Reduce flood risk and potential damage to substation equipment	1/4/2019	3/8/2019	3/8/2019	\$697,996	\$1,400,020			100	138	138	6.76 mi	Drake 795 ACSR, Single	Steel (New) & Wood H-frame (Existing)	100'	100'	100'	6.76 mi	25 101 (C)(5)(B)
1019133	Rim Rock - Turtle Creek TL Addition (T270) (Rim Rock - Turtle Creek TL Storm Hardening - 1018968)	Kerr	Increase the reliability of circuit (T270) on the Rim Rock - Turtle Creek 7.6 mile 138kV transmission line	9/16/2020	2/10/2021		\$6,523,068	\$7,002,025			0	138	138	7.6 mi	(1x) 795 ACSR Drake	Steel Monopole	60', 100'	7.6 mi	60, 100	7.6 mi	25 101 (C)(5)(B)
1020430	Marshall Ford-McNeil TL Addition (T161) (Summit T161 TL Relocation - 1020390)	Travis	Relocation of the Marshall Ford to McNeil 69-kV transmission line (T161) at the Austin Energy Summit Substation. The proposed relocation of the line was requested by Austin Energy to the northern section of Summit Sub.	3/4/2019	11/27/2019			\$831,439			50	69	69	13.42 mi	Bundled 795 Drake ACSR	Steel Poles	100' CL	0.9 mi	100' Centerline	0.9 mi	25 101 (C)(5)(B)
1018509	Bakersfield to Solstice (CCN) (Bakersfield-Solstice TL Addition - 1018599)	Pecos	Construct a new 345-kV transmission line to connect LCRA TSC's existing Bakersfield station and AEP Texas' Solstice Switch Station	12/20/2019	12/23/2020						0	0	345	130-190 mi	1928.9 kcmil ACSS/Cumbrian (LCRA TSC) and 1590 ACSS (AEP Texas)	Double-circuit steel lattice towers	0	0	150'	68-92 mi	48787
1017897	Culberson-Kuntz TL Addition (T271) (Culberson-Kuntz TL Overhaul - 1017896)	Culberson	Structure replacement upgrades to steel and concrete Poles	5/28/2019	8/9/2019		\$507,000	\$593,494			0	138	138	28.88 mi	Linnet, 336kcmil, 0.721"	Wood	100'	28.88 mi	n/a	n/a	25 101 (C)(5)(B)
1019319	N Padre Tap - Port A (T-477) (Hurricane Response System Upgrade - 1019085)	Nueces	Increase the reliability, repair storm damage, and upgrade circuit (T477) on the North Padre Tap - Port Aransas 18.23-mile 69-kV transmission line and circuit (T474) on the Fulton - Rockport 138-kV 7.36-mile 69-kV transmission line.	8/5/2019	10/25/2019			3,193,000			0	69	69	15 mi	795 ACSR/AW Drake x1	Steel monopole, Concrete Monopole, Hybrid Steel/Concrete	(AEP-owned)	NA	n/a	n/a	25 101 (C)(5)(B)

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1019337	Elroy - Wolf Lane (T-582) (LCRA TSC FIBER BUILD OUT FY19 - 1019097)	Travis	Increase the reliability and capability of the fiber network by adding Optical Grounding Wire (OPGW) and related telecommunications equipment	3/18/2019	5/15/2019		\$31,898,000	\$1,317,604			15	138	138	3.78 mi	795 Drake ACSR GA2	Wood H-frame, LD Steel H-frame, Steel Pole, Tower	100'	3.78 mi	100	3.78 mi	25 101 (C)(5)(B)
1020260	Red Creek-Amos Creek TL Addition (T424) (Amos Creek Substation Addition - 1020230)	Concho	Transmission line cut-in to provide transmission service to a generator	8/5/2019	4/22/2020			\$1,737,273			0	345	345	49 mi	1590 ACSR Falcon x2	Steel Lattice tower	100'	49 mi	n/a	n/a	25 101 (C)(5)(B)
1019327	Austrop-Garfield (T182) (LCRA TSC FIBER BUILD OUT FY19 - 1019097)	Travis	Increase the reliability and capability of the fiber network by adding Optical Grounding Wire (OPGW) and related telecommunications equipment	4/15/2019	11/22/2019		\$31,898,000	\$2,561,186			0	345	345	8.33 mi	Bundled 795 ACSR "Drake"	Lattice Tower	170' Centerline	8.33 mi	n/a	n/a	25 101 (C)(5)(B)
1019374	Marshall Ford - McNeil T161 TL Addition (T161) (Marshall Ford-McNeil TL Relocation - 1019212)	Travis	Increase transmission service reliability to the Austin Energy Hamilton Substation	5/1/2019	7/8/2019			\$951,759			0	69	69	13.4 mi	4/0 & 795 kcmil ACSR	Lattice Towers & Steel Poles	100'	13.4 mi	n/a	n/a	25 101 (C)(5)(B)
1017655	Winchester-Salem TL Addition (T170) (T667) (Salem-Winchester T170 TL OH - 1017654)	Fayette	Increase the reliability and capability of circuit T170 on the Salem - Winchester 37.16-mile 138-kV transmission line	6/3/2019	2/20/2020			\$5,700,000			0	138	138	37.16	795 ACSR Drake (single)	Wood H-frame, Steel Lattice, Steel Monopole	Varies	37.16 mi	n/a	n/a	25 101 (C)(5)(B)

AFFIDAVIT OF NOTICE

STATE OF TEXAS

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BEFORE ME, the undersigned authority, on this day personally appeared Larry Hendrix, and being by me duly sworn, upon oath declared that the statements and capacity acted in are true and correct.

"My name is Larry Hendrix. I am an employee of the Lower Colorado River Authority (LCRA). I am over twenty-one years of age and I am competent to make this Affidavit. I have personal knowledge of the facts contained herein and they are true and correct.

In accordance with P.U.C. Proc. Rule 25.83, on April 15, 2019, LCRA Transmission Services Corporation completed a search and mailed notice to:

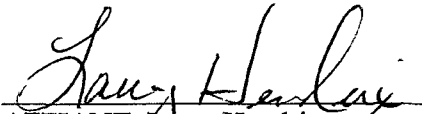
- (a) owners of land crossed by the existing transmission facility to be modified T-170/667, Winchester Substation to Salem Substation, 138 kilovolt transmission line.

In accordance with P.U.C. Proc. Rule 25.83, on April 15, 2019, LCRA Transmission Services Corporation mailed by first class mail:

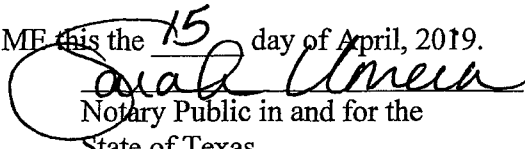
- (b) notice to Fayette Electric Cooperative whose certificated service area is crossed by the T-170/T-667, 138 kilovolt transmission line.
- (c) notice to Bluebonnet Electric Cooperative whose certificated service area is crossed by the T-170/T-667, 138 kilovolt transmission line.

The search for the names of the landowners whose property is crossed by the modified electric transmission facility as described in (a), above, were ascertained by reference maps, and current tax rolls in Fayette and Washington counties. The certificated utility described in (b) and (c) above, was ascertained by reference to Public Utility Commission's Certified Electric Service Area Boundary Maps and other available maps.

SIGNED on this the 15th day of April, 2019.


AFFIANT: Larry Hendrix

SWORN TO AND SUBSCRIBED BEFORE ME this the 15 day of April, 2019.


Notary Public in and for the
State of Texas

