

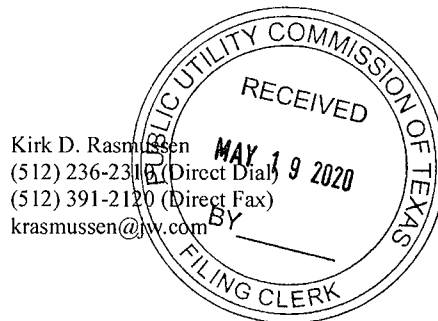


Control Number: 49523



Item Number: 333

Addendum StartPage: 0



May 19, 2020

**Via Interchange Filing**

Stephen Journey  
Office of Policy & Docket Management  
1701 N. Congress Avenue  
PO Box 13326  
Austin, Texas 78711

Re: PUC Docket No. 49523; *Application of LCRA Transmission Services Corporation to Amend its Certificate of Convenience and Necessity for the Proposed Mountain Home 138-KV Transmission Line Project in Gillespie, Kerr, and Kimble Counties*

Dear Mr. Journey:

On March 4, 2020, LCRA Transmission Services Corporation (LCRA TSC) filed a native electronic copy (Excel) of LCRA TSC Exhibit 15 containing the environmental assessment data and cost data for the above-referenced project that should be used by the Public Utility Commission of Texas (Commission) and all parties in this proceeding. Tab 1 of the native file contains all of the environmental assessment data for each route. Tab 2 of the native file contains all of the environmental assessment data for each route segment for the project. The copy of LCRA TSC Exhibit 15 that was filed at the Commission did not include the route segment data for Segments I5, C5, and V4. LCRA TSC Exhibit 15 attached to this letter in PDF format and filed electronically in native electronic format (Excel) includes the route segment data for Segments I5, C5, and V4.

Sincerely,

/s/ Kirk Rasmussen

Kirk D. Rasmussen

Enclosure

Docket No. 49523 - Route Cost and Data Chart

LCRA TSC Exhibit No. 15

Evaluation Criteria		Docket No. 49523 - Route Cost and Data Chart										LCRA TSC Exhibit N			
	Land Use	Hunt 1	Hunt 2	Hunt 3	Hunt 4	Hunt 5	Hunt 5A	Hunt 6	Hunt 7	Hunt 7A	Hunt 8	Hunt 9	Hunt 10	Hunt 11	
	Estimated Costs for Transmission Line and Substation Facilities	63.41	63.78	63.44	70.77	61.60	61.22	62.39	64.82	64.45	64.67	65.13	67.99	66.31	
1	Length of primary alternative route (miles)	22.80	22.68	24.26	26.28	21.48	20.98	21.59	22.77	22.26	22.56	22.89	24.24	24.10	
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	30	36	30	26	26	26	28	30	30	31	29	50	31	
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	16	16	6	2	6	6	6	16	16	16	16	16	16	
4	Length of ROW using existing transmission line ROW	1.91	1.91	0.33	0.06	0.33	0.33	0.33	1.91	1.91	1.91	1.91	1.91	1.91	
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	4.42	6.48	4.33	2.89	1.73	2.12	1.73	2.95	3.34	2.59	2.72	5.89	3.39	
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	10.93	9.22	14.54	17.96	15.35	14.65	15.86	13.14	12.45	13.16	12.31	10.61	12.60	
8	Sum of evaluation criteria 4, 5, 6, and 7	17.26	17.61	19.20	20.91	17.41	17.10	17.92	18.00	17.70	17.66	16.94	18.41	17.90	
9	Percent of evaluation criteria 4, 5, 6, and 7	76%	78%	79%	80%	81%	82%	83%	79%	80%	78%	74%	76%	74%	
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	Length of ROW across pasture/rangeland	8.97	10.66	12.09	10.84	8.11	7.99	8.17	7.63	7.53	7.25	8.29	11.24	9.87	
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.00	0.00	
16	Number of pipeline crossings <sup>4</sup>	2	2	2	2	2	2	2	2	2	2	2	2	2	
17	Number of transmission line crossings	1	1	1	1	1	1	1	1	1	1	1	1	1	
18	Number of IH, US and state highway crossings	2	2	2	2	2	2	2	2	2	2	2	2	2	
19	Number of farm-to-market (FM) road crossings	3	4	3	3	3	3	3	4	4	4	4	4	4	
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	1	0	0	0	0	0	0	0	0	0	1	0	
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	Number of private airstrips within 10,000 feet of the ROW centerline	4	5	5	4	4	4	4	4	4	4	4	5	4	
24	Number of heliports within 5,000 feet of the ROW centerline	2	2	2	2	2	2	2	2	2	2	2	2	2	
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	1	1	1	1	1	1	1	1	2	0	
<b>Aesthetics</b>															
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	2.87	3.94	2.88	3.11	2.92	2.90	3.03	4.21	4.19	3.99	4.44	5.67	4.05	
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	8.30	9.23	7.46	3.43	4.65	4.84	4.65	4.65	4.84	4.65	4.65	7.49	7.57	
29	Estimated length of ROW within foreground visual zone <sup>6,7,8</sup> of parks/recreational areas <sup>3</sup>	0.07	0.07	0.07	0.25	0.25	0.25	0.25	0.07	0.07	0.25	0.07	0.07	0.07	
<b>Ecology</b>															
30	Length of ROW across upland woodlands/brushlands	16.05	14.88	18.10	19.57	16.27	14.95	16.34	16.85	15.53	16.85	16.41	17.24	17.74	
31	Length of ROW across bottomland/riparian woodlands	0.96	0.99	0.74	0.93	0.69	0.69	0.69	0.74	0.74	0.74	0.90	1.10	0.99	
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	68.8	71.3	48.4	104.4	68.4	62.0	69.2	82.5	76.1	83.0	77.7	77.3	73.2	
35	Length of ROW across open water (lakes, ponds)	0.02	0.01	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	
36	Number of stream crossings	29	28	27	33	22	23	23	23	24	23	28	31	31	
37	Number of river crossings	1	1	1	1	1	1	1	1	1	1	1	1	1	
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.34	0.26	0.17	1.08	0.27	0.35	0.27	0.27	0.36	0.27	0.24	0.18	0.44	
39	Length of ROW across 100-year floodplains	0.86	1.26	0.86	1.01	0.76	0.88	0.76	1.13	1.24	1.15	1.64	1.27	1.21	
<b>Cultural Resources</b>															
40	Number of recorded historic or prehistoric sites crossed by ROW	0	1	0	0	0	0	0	1	1	1	1	1	1	
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	2	2	1	1	2	2	2	2	2	2	2	2	3	
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	
44	Length of ROW across areas of high archeological/historic site potential	12.7	11.8	11.2	16.3	10.2	10.3	10.5	11.3	11.5	11.1	12.8	13.5	14.6	

Notes: <sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b) formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological/historical resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Route	Segments
Hunt 1	X3-B-F-I-U3-V3-Z3-Q-A1-B1-F1-H1-T4-L1-O1-SUB1-R1-X1-I2-J2-H2-I3-J3-M3-R3
Hunt 2	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-L1-SUB2-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 3	X3-B-C-D-K-Y3-Z3-Q-A1-B1-F1-H1-T4-L1-SUB2-N1-Z1-A2-D2-G2-H2-I3-J3-M3-R3
Hunt 4	X3-A-L-B4-N-P-R-S-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 5	X3-B-C-J-V3-Z3-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 5A	X3-B-C-J-V3-Z3-W4-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 6	X3-B-C-J-V3-Z3-Q-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Hunt 7	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Hunt 7A	X3-B-F-I-H4-I4-L4-W4-T4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Hunt 8	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-Q3
Hunt 9	X3-B-F-I-H4-I4-L4-Q-A1-B1-F1-H1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-P3-R3
Hunt 10	X3-B-F-I-H4-I4-L4-Q-A1-G1-T4-SUB3-N4-M1-Z1-B2-F2-I3-K3-M3-R3
Hunt 11	X3-B-F-I-H4-I4-L4-Q-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-J2-H2-I3-K3-M3-R3

## LCRA TSC Exhibit No. 15

[illegible]

Docket No. 49523 - Route Cost and Data Chart

LCRA TSC Exhibit No. 15

Evaluation Criteria		Hunt 25	Hunt 26	Hunt 27	Hunt 28	Hunt 29	Hunt 30	Hunt 31	Hunt 31A	Hunt 36	Hunt 36A	Hunt 37	Hunt 37A
	Land Use												
	Estimated Costs for Transmission Line and Substation Facilities	69.83	71.09	74.19	70.98	68.24	71.34	64.79	63.62	64.15	62.93	65.50	64.33
1	Length of primary alternative route (miles)	27.27	27.90	29.77	27.61	26.84	28.46	22.45	21.83	22.57	21.95	23.13	22.51
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	32	29	48	27	35	37	34	32	39	37	39	37
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	6	2	6	7	6	6	16	16	16	16	16	16
4	Length of ROW using existing transmission line ROW	0.33	0.06	0.33	0.33	0.33	0.33	1.91	1.91	1.91	1.91	1.91	1.91
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.29	0.29	0.29	1.50	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	5.21	3.23	7.06	6.21	10.78	3.79	2.59	2.98	6.48	6.87	6.48	6.87
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	15.47	18.68	16.17	14.64	10.99	19.32	13.57	12.36	9.63	8.43	11.32	10.12
8	Sum of evaluation criteria 4, 5, 6, and 7	21.30	22.26	23.85	22.68	22.39	23.73	18.07	17.25	18.02	17.21	19.71	18.90
9	Percent of evaluation criteria 4, 5, 6, and 7	78%	80%	80%	82%	83%	83%	80%	79%	80%	78%	85%	84%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	14.73	15.42	18.07	13.79	15.75	17.31	6.64	6.47	10.05	9.88	9.56	9.38
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.66	0.66	0.00	0.66	0.00	0.66	0.66	0.66	0.00	0.00	0.00	0.00
16	Number of pipeline crossings <sup>4</sup>	2	2	2	2	2	2	2	2	2	2	2	2
17	Number of transmission line crossings	1	1	1	1	1	1	1	1	1	1	1	1
18	Number of IH, US and state highway crossings	3	3	2	2	2	2	2	2	2	2	2	2
19	Number of farm-to-market (FM) road crossings	3	3	3	3	3	3	3	3	3	3	3	3
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	1	0	0	0	1	1	1	1
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	3	2	3	3	4	2	4	4	5	5	5	5
24	Number of heliports within 5,000 feet of the ROW centerline	0	1	0	1	1	0	2	2	2	2	2	2
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	5	3	2	3	3	3	1	1	0	0	0	0
	<b>Aesthetics</b>												
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	5.14	5.14	4.73	6.92	5.87	4.78	3.03	2.90	2.98	2.85	2.96	2.83
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	1.79	2.67	6.32	2.63	7.21	2.91	4.65	4.84	9.23	9.43	9.23	9.43
29	Estimated length of ROW within foreground visual zone <sup>6,7,8</sup> of parks/recreational areas <sup>3</sup>	0.25	0.25	0.07	0.07	0.07	0.25	0.25	0.25	0.07	0.07	0.07	0.07
	<b>Ecology</b>												
30	Length of ROW across upland woodlands/brushlands	19.04	18.74	19.70	19.54	17.94	18.95	17.30	15.90	15.33	13.93	16.80	15.40
31	Length of ROW across bottomland/riparian woodlands	0.71	0.87	1.09	0.63	0.89	0.58	0.75	0.75	1.00	1.00	0.90	0.90
32	Length of ROW across NWI mapped wetlands	0.06	0.06	0.06	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	59.1	89.1	65.0	66.0	56.8	75.6	80.2	73.0	68.5	61.3	73.1	66.0
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02
36	Number of stream crossings	25	34	36	29	27	25	25	25	30	30	27	27
37	Number of river crossings	1	2	1	1	1	2	1	1	1	1	1	1
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.36	1.00	0.58	0.20	0.18	0.23	0.17	0.26	0.16	0.25	0.16	0.25
39	Length of ROW across 100-year floodplains	1.16	1.27	0.68	1.01	0.75	0.68	0.76	0.88	0.86	0.98	0.86	0.98
	<b>Cultural Resources</b>												
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	7	3	2	7	7	3	1	1	1	1	1	1
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archaeological/historic site potential	12.8	16.7	15.5	12.3	12.0	13.3	11.1	10.9	11.7	11.5	11.8	11.6

**Notes**

<sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archaeological/historical/resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet

Route	Segments
Hunt 25	X3-B-C-D-K-A4-M-N-T-D4-V-W-X-SUB5-Y-C1-E1-J1-Q1-U1-M2-O2-P2-R2-U2-Z2-D3-F3-O3-W3-Q3
Hunt 26	X3-A-L-C4-D4-V-W-X-SUB5-Y-C1-E1-J1-Q1-U1-M2-V2-B3-E3-F3-O3-W3-Q3
Hunt 27	X3-B-C-D-E-L-B4-N-T-D4-V-SUB6-W-Y-C1-E1-J1-Q1-T1-S1-X1-C2-D2-E2-F2-I3-K3-M3-R3
Hunt 28	X3-B-C-D-K-A4-M-N-T-D4-U-SUB6-W-Y-C1-D1-F1-H1-T4-L1-O1-R1-X1-I2-Q2-U2-Z2-D3-F3-O3-W3-P3-R3
Hunt 29	X3-B-C-D-K-A4-M-N-T-D4-V-SUB6-W-Y-C1-E1-I1-H1-T4-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 30	X3-B-C-D-E-L-C4-D4-V-SUB6-W-Y-C1-E1-J1-Q1-U1-M2-V2-X2-C3-E3-F3-H3-L3-W3-Q3
Hunt 31	X3-B-F-I-U3-V3-Z3-Q-A1-G1-T4-SUB3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-Q3
Hunt 31A	X3-B-F-I-U3-V3-Z3-W4-T4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-Q3
Hunt 36	X3-B-F-I-U3-V3-Z3-Q-A1-G1-T4-SUB 3-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 36A	X3-B-F-I-U3-V3-Z3-W4-T4-Sub 3-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 37	X3-B-F-I-U3-V3-Z3-Q-A1-G1-T4-SUB 3-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Hunt 37A	X3-B-F-I-U3-V3-Z3-W4-T4-Sub 3-L1-N1-Z1-B2-F2-I3-J3-M3-R3

# Docket No. 49523 - Route Cost and Data Chart

LCRA TSC Exhibit No. 15

Evaluation Criteria		Ingram 1	Ingram 2	Ingram 3	Ingram 4	Ingram 5	Ingram 6	Ingram 7	Ingram 8	Ingram 9	Ingram 10	Ingram 11
Land Use												
Estimated Costs for Transmission Line and Substation Facilities		68.88	67.92	67.47	70.89	68.51	70.34	68.76	70.07	71.77	70.77	66.57
1	Length of primary alternative route (miles)	25.34	23.12	23.28	25.22	25.02	24.87	25.23	25.33	25.06	25.01	25.42
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	60	76	72	35	39	32	28	45	44	46	42
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	4	3	3	3	3	3	4	31	31	31	4
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47	4.47	4.47	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	1.88	0.00	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00	1.88
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	10.67	5.80	4.45	2.41	6.88	2.13	7.99	2.95	2.09	2.36	10.75
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	9.40	12.74	14.41	17.34	13.12	16.99	10.93	13.14	12.98	12.23	9.08
8	Sum of evaluation criteria 4, 5, 6, and 7	21.95	18.54	18.86	19.75	20.00	19.12	20.80	20.56	19.54	19.06	21.71
9	Percent of evaluation criteria 4, 5, 6, and 7	87%	80%	81%	78%	80%	77%	82%	81%	78%	76%	85%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	2	0	0	0	0	0	2	0	0	0	2
12	Length of ROW across cropland	0.00	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	9.62	7.36	6.99	8.67	11.18	7.93	9.69	8.72	8.22	8.33	12.89
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.66	0.66	0.66	0.66	0.00	0.66	0.66	0.66	0.66	0.66	0.00
16	Number of pipeline crossings <sup>4</sup>	2	2	2	2	2	2	2	2	2	2	2
17	Number of transmission line crossings	1	1	1	1	1	1	1	1	1	1	1
18	Number of IH, US and state highway crossings	3	7	5	1	1	1	1	3	3	3	1
19	Number of farm-to-market (FM) road crossings	4	4	4	4	4	4	4	4	3	3	4
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	1	0	0	0	0	0	0
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	2	3	3	4	4	3	2	4	4	4	2
24	Number of heliports within 5,000 feet of the ROW centerline	1	2	2	2	2	2	1	2	2	2	1
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	1	1	1	1	0	1	1	2	2	2	0
Aesthetics												
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	10.63	9.07	8.06	5.64	5.37	5.42	9.53	4.72	3.65	3.67	9.27
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	2.42	4.45	4.45	3.61	9.03	4.45	2.42	4.45	4.45	4.45	6.35
29	Estimated length of ROW within foreground visual zone <sup>6/7/</sup> of parks/recreational areas <sup>3</sup>	1.40	0.25	0.25	0.07	0.07	0.25	1.40	0.07	0.07	0.25	1.40
Ecology												
30	Length of ROW across upland woodlands/brushlands	16.34	16.77	17.47	19.49	16.74	18.57	16.50	17.91	18.14	17.84	15.46
31	Length of ROW across bottomland/riparian woodlands	0.45	0.69	0.73	0.71	0.96	0.75	0.49	0.77	0.82	0.95	0.64
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	76.8	62.2	74.7	92.2	71.9	91.0	92.7	95.6	99.4	87.7	78.0
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.02	0.03	0.03	0.00
36	Number of stream crossings	28	28	28	33	32	30	30	24	28	30	36
37	Number of river crossings	1	1	1	1	1	1	1	1	1	1	1
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.46	0.59	1.00	0.61	0.67	0.78	0.33	0.27	0.15	0.18	0.18
39	Length of ROW across 100-year floodplains	0.54	1.03	0.98	1.36	1.49	1.39	0.59	1.42	1.03	1.57	0.72
Cultural Resources												
40	Number of recorded historic or prehistoric sites crossed by ROW	1	5	4	1	1	1	1	3	2	2	1
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	7	7	4	2	2	3	6	4	4	3	5
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archaeological/historic site potential	11.2	13.4	13.0	13.5	13.3	13.4	11.5	11.1	11.5	11.9	12.2

**Notes**

<sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archaeological/historical resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Route	Segments
Ingram 1	F4-G4-R4-Q4-M4-N4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Ingram 2	F4-G4-S4-Q4-I4-L4-Q4-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Ingram 3	F4-G4-S4-P4-L4-Q4-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Ingram 4	F4-J4-Q4-K4-P4-L4-Q4-A1-B1-F1-H1-T4-Sub 3-L1-N1-Z1-A2-D2-G2-S2-G3-L3-W3-P3-R3
Ingram 5	F4-J4-Q4-K4-P4-L4-Q4-A1-B1-F1-H1-T4-Sub 3-L1-N1-Z1-B2-F2-I3-J3-M3-R3
Ingram 6	F4-J4-Q4-K4-P4-L4-Q4-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-Q3
Ingram 7	F4-J4-Q4-M4-N4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-P3-R3
Ingram 8	E4-I-H4-I4-L4-Q4-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-T2-G3-L3-W3-P3-R3
Ingram 9	E4-I-U3-V3-Z3-Q4-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-J2-S2-G3-L3-W3-P3-R3
Ingram 10	E4-I-U3-V3-Z3-Q4-A1-B1-F1-H1-T4-Sub 3-L1-O1-R1-X1-I2-Q2-U2-D3-F3-O3-W3-Q3
Ingram 11	F4-J4-Q4-M4-N4-SUB3-L1-N1-Z1-A2-D2-E2-F2-I3-J3-M3-R3

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

Evaluation Criteria		Docket No. 49523 - Segment Data Chart																LCRA TSC Exhibit No. 15				
	Land Use	A	A1	A2	A3	A4	B	B1	B2	B3	B4	C	C1	C2	C3	C4	C5					
1	Length of primary alternative route (miles)	5.55	0.52	1.79	1.44	1.24	0.26	0.41	3.60	2.06	0.36	2.39	0.46	1.98	1.03	1.52	1.95					
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	5	5	0	0	0	5	0	3	0	0	9	0	6	1	0	0					
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	1	0	0	0	0	5	0	0	0	0	3	0	0	0	0	0					
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00					
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.64	0.00	0.36	0.00	0.17	0.51	0.87	0.00	0.00					
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	3.98	0.50	1.47	1.11	0.78	0.00	0.00	1.40	1.83	0.00	2.14	0.00	1.28	0.00	1.00	1.69					
8	Sum of evaluation criteria 4, 5, 6, and 7	3.98	0.50	1.47	1.11	0.82	0.26	0.00	3.04	1.83	0.36	2.14	0.46	1.79	0.87	1.00	1.69					
9	Percent of evaluation criteria 4, 5, 6, and 7	72%	96%	82%	77%	66%	100%	0%	84%	89%	100%	90%	100%	90%	84%	66%	87%					
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
13	Length of ROW across pasture/rangeland	2.33	0.02	1.26	1.06	0.66	0.00	0.00	2.16	1.80	0.36	1.49	0.11	0.70	0.51	0.72	0.56					
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
16	Number of pipeline crossings <sup>4</sup>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0					
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
18	Number of IH, US and state highway crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
19	Number of farm-to-market (FM) road crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0					
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
23	Number of private airstrips within 10,000 feet of the ROW centerline	2	2	1	0	1	1	1	1	0	2	1	0	0	0	1	1					
24	Number of heliports within 5,000 feet of the ROW centerline	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0					
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0					
Aesthetics																						
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.00	0.04	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00					
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	1.01	0.00	0.00	0.47	0.00	0.20	0.00	1.14	0.46	0.00	0.00	0.00	0.00	1.03	0.00	0.00					
29	Estimated length of ROW within foreground visual zone <sup>6</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Ecology																						
30	Length of ROW across upland woodlands/brushlands	4.19	0.50	1.79	0.62	0.57	0.26	0.41	2.07	0.96	0.35	1.64	0.33	1.17	0.70	0.78	1.56					
31	Length of ROW across bottomland/riparian woodlands	0.24	0.00	0.00	0.07	0.03	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.11	0.00	0.00	0.00					
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	43.9	5.6	3.4	2.8	2.3	3.2	1.0	5.0	0.2	0.0	9.8	2.7	7.3	4.7	0.0	11.8					
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
36	Number of stream crossings	10	1	1	2	1	0	0	2	2	0	1	0	5	2	3	1					
37	Number of river crossings	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0					
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.57	0.00	0.00	0.00	0.02	0.00	0.00	0.08	0.22	0.00	0.00	0.00	0.43	0.00	0.00	0.00					
39	Length of ROW across 100-year floodplains	0.19	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00					
Cultural Resources																						
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0					
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
44	Length of ROW across areas of high archaeological/historic site potential	5.0	0.4	0.8	0.9	0.8	0.0	0.1	0.8	0.8	0.0	0.6	0.0	2.0	1.0	1.0	1.0					

**Notes**  
<sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological/historical resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No 15

Evaluation Criteria		D	D1	D2	D3	D4	E	E1	E2	E3	E4	F	F1	F2	F3	F4	G1
<b>Land Use</b>																	
1	Length of primary alternative route (miles)	1.44	1.21	0.07	1.00	0.43	1.99	0.15	2.01	1.48	4.47	1.58	0.14	1.14	1.47	0.26	0.94
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	0	1	0	0	0	0	0	9	1	30	13	0	0	2	5	2
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	0	1	0	0	0	0	0	0	0	30	13	0	0	0	2	0
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47	1.58	0.00	0.00	0.00	0.00	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.19
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	1.20	0.00	0.06	0.00	0.43	1.54	0.00	1.88	1.19	0.00	0.00	0.00	0.01	1.34	0.00	0.51
8	Sum of evaluation criteria 4, 5, 6, and 7	1.20	1.21	0.06	0.00	0.43	1.54	0.00	1.88	1.19	4.47	1.58	0.00	1.12	1.34	0.19	0.51
9	Percent of evaluation criteria 4, 5, 6, and 7	83%	100%	86%	0%	100%	77%	0%	94%	80%	100%	100%	0%	98%	91%	73%	54%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	1.44	0.00	0.03	0.57	0.43	1.99	0.05	1.20	1.21	1.16	0.07	0.02	1.01	0.38	0.05	0.27
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Number of pipeline crossings <sup>4</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Number of transmission line crossings	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1
18	Number of IH, US and state highway crossings	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1
19	Number of farm-to-market (FM) road crossings	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	1	1	0	0	1	1	0	0	0	1	1	1	0	0	0	2
24	Number of heliports within 5,000 feet of the ROW centerline	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<b>Aesthetics</b>																	
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.00	1.21	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.58	0.00	0.14	0.00	0.00	0.26	0.94
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.61	0.00	0.00	0.00	1.14	0.00	0.00	0.00
29	Estimated length of ROW within foreground visual zone <sup>6(7)</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ecology</b>																	
30	Length of ROW across upland woodlands/brushlands	0.75	1.17	0.07	0.76	0.29	1.44	0.06	1.00	0.89	2.77	1.43	0.07	0.62	1.15	0.17	0.84
31	Length of ROW across bottomland/riparian woodlands	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.13	0.02	0.03	0.00	0.00	0.10	0.04	0.00	0.00
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	0.9	8.3	0.4	1.7	0.1	4.4	0.8	5.0	2.8	30.0	13.5	0.5	0.0	4.0	0.0	3
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
36	Number of stream crossings	0	5	0	0	0	1	0	5	1	3	2	0	3	2	1	1
37	Number of river crossings	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00
39	Length of ROW across 100-year floodplains	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.07	0.00	0.00
<b>Cultural Resources</b>																	
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archeological/historic site potential	0.0	0.0	0.1	0.6	0.2	0.6	0.0	1.0	0.6	0.6	0.7	0.0	0.6	1.0	0.3	0.4

**Notes:**  
<sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b) formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All linear measurements were shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological/historic/resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.



Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No 15

Evaluation Criteria		G2	G3	G4	H1	H2	H3	H4	I	I1	I2	I3	I4	I5	J	J1
1	Length of primary alternative route (miles)	1.13	2.39	1.22	0.29	2.23	0.59	1.07	2.15	1.21	1.03	0.89	0.71	0.37	0.93	0.30
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	0	1	23	0	0	1	0	0	0	0	0	1	0	0	0
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.60	0.14	1.15	0.00	0.00	0.10	0.00	0.00	1.21	0.00	0.89	0.00	0.00	0.00	0.29
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	0.30	2.01	0.00	0.00	1.76	0.35	0.77	0.72	0.00	1.03	0.00	0.42	0.37	0.93	0.00
8	Sum of evaluation criteria 4, 5, 6, and 7	0.90	2.15	1.15	0.00	1.76	0.45	0.77	0.72	1.21	1.03	0.89	0.42	0.37	0.93	0.29
9	Percent of evaluation criteria 4, 5, 6, and 7	80%	90%	94%	0%	79%	76%	72%	33%	100%	100%	100%	59%	100%	100%	97%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	0.18	0.49	0.35	0.19	1.03	0.46	0.48	0.91	0.23	0.80	0.38	0.31	0.00	0.93	0.22
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Number of pipeline crossings <sup>4</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Number of IH, US and state highway crossings	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0
19	Number of farm-to-market (FM) road crossings	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	0	0	0	0	2	2	0	0	0	2	1	1	0
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	0	1	0	0	1	1	1	0	0	1	0	0	0
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
<b>Aesthetics</b>																
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.00	0.00	1.22	0.29	0.00	0.00	0.58	0.00	1.21	0.00	0.00	0.71	0.00	0.00	0.30
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
29	Estimated length of ROW within foreground visual zone <sup>6(I)</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ecology</b>																
30	Length of ROW across upland woodlands/brushlands	1.02	2.01	0.71	0.29	1.53	0.12	0.48	1.14	1.19	0.75	0.53	0.35	0.37	0.42	0.08
31	Length of ROW across bottomland/riparian woodlands	0.10	0.00	0.03	0.00	0.10	0.00	0.07	0.08	0.02	0.04	0.06	0.03	0.00	0.00	0.00
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	1.1	8.6	1.5	0.5	2.9	1.0	2.9	18.6	7.6	1.3	0.1	4.5	4.4	6.4	0.6
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	Number of stream crossings	3	2	2	0	4	0	1	2	3	1	1	1	0	0	0
37	Number of river crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.00	0.00	0.22	0.00	0.10	0.01	0.07	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
39	Length of ROW across 100-year floodplains	0.00	0.00	0.11	0.00	0.00	0.05	0.30	0.00	0.09	0.00	0.00	0.05	0.00	0.00	0.05
<b>Cultural Resources</b>																
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archaeological/historic site potential	0.8	0.4	0.9	0.0	1.1	0.3	0.7	1.3	0.7	0.4	0.6	0.7	0.2	0.5	0.3

**Notes**  
<sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archaeological/historic resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No 15

Evaluation Criteria		J2	J3	J4	K	K2	K3	K4	L	L1	L2	L3	L4	M	M1	M2	M3
1	Length of primary alternative route (miles)	1.91	2.55	2.25	1.17	1.04	3.52	2.40	2.47	0.85	1.04	1.12	0.67	1.04	2.53	2.26	0.40
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	0	4	9	0	4	4	2	2	2	0	0	0	0	19	1	0
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	1.23	0.21	0.00	1.04	0.20	0.00	0.47	0.85	0.01	0.00	0.00	1.04	1.29	0.00	0.40
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	1.40	0.50	1.59	1.08	0.00	1.56	1.46	1.84	0.00	0.26	1.11	0.41	0.00	1.12	2.13	0.00
8	Sum of evaluation criteria 4, 5, 6, and 7	1.40	1.73	1.80	1.08	1.04	1.76	1.46	2.31	0.85	0.27	1.11	0.41	1.04	2.41	2.13	0.40
9	Percent of evaluation criteria 4, 5, 6, and 7	73%	68%	80%	92%	100%	50%	61%	94%	100%	26%	99%	61%	100%	95%	94%	100%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	1.09	1.54	0.65	0.76	0.00	1.71	0.99	2.31	0.00	0.39	0.11	0.18	1.04	0.54	1.02	0.13
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Number of pipeline crossings <sup>4</sup>	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Number of IH, US and state highway crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Number of farm-to-market (FM) road crossings	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	0	1	0	0	1	1	0	0	0	3	2	2	0	0
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
<b>Aesthetics</b>																	
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.00	0.00	0.65	0.00	0.00	0.00	0.56	0.00	0.36	0.00	0.00	0.67	0.00	1.75	0.00	0.02
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.00	2.45	0.00	0.00	1.04	1.72	0.00	0.00	0.49	0.51	0.00	0.00	0.00	0.00	0.00	0.38
29	Estimated length of ROW within foreground visual zone <sup>6(7)</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ecology</b>																	
30	Length of ROW across upland woodlands/brushlands	1.44	1.15	1.54	1.17	1.02	3.15	1.25	0.97	0.85	0.78	0.91	0.51	0.34	2.35	1.65	0.40
31	Length of ROW across bottomland/riparian woodlands	0.06	0.18	0.03	0.00	0.00	0.22	0.06	0.04	0.00	0.12	0.06	0.02	0.00	0.09	0.06	0.00
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	3.7	2.9	10.0	3.1	0.7	2.8	6.2	7.0	1.1	2.2	5.3	3.2	0.0	12.9	4.1	0.0
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	Number of stream crossings	3	4	2	1	0	6	4	2	1	4	2	1	1	4	3	0
37	Number of river crossings	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.15	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.17	0.00
39	Length of ROW across 100-year floodplains	0.00	0.24	0.29	0.00	0.00	0.19	0.30	0.00	0.00	0.00	0.00	0.22	0.00	0.01	0.00	0.00
<b>Cultural Resources</b>																	
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archeological/historic site potential	1.4	1.5	1.5	0.4	0.6	2.5	1.4	1.0	0.4	0.9	0.4	0.5	0.3	1.5	1.5	0.4

<sup>1</sup>Single-family and multi-family dwellings and related structures: mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological/historic resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

## Evaluation Criteria

Land Use	M4	N	N1	N2	N4	O	O1	O2	O3	O4	P	P1	P2	P3	P4	Q
1 Length of primary alternative route (miles)	9.33	0.88	1.44	0.99	0.24	1.47	0.08	1.07	1.56	1.60	0.54	1.86	0.07	0.24	2.47	2.44
2 Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	5	0	5	0	0	1	0	1	0	5	0	0	0	1	2	0
3 Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 Length of ROW parallel and adjacent to existing transmission line ROW	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Length of ROW parallel and adjacent to other existing ROW (roadways)	5.50	0.00	0.00	0.95	0.00	0.00	0.08	0.46	0.41	1.35	0.00	0.12	0.00	0.00	0.00	0.00
7 Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	0.87	0.73	1.42	0.00	0.11	1.01	0.00	0.46	0.90	0.18	0.51	1.69	0.00	0.00	2.28	2.24
8 Sum of evaluation criteria 4, 5, 6, and 7	8.25	0.73	1.42	0.95	0.11	1.01	0.08	0.92	1.31	1.53	0.51	1.81	0.00	0.00	2.28	2.24
9 Percent of evaluation criteria 4, 5, 6, and 7	88%	83%	99%	98%	46%	68%	100%	86%	84%	96%	94%	97%	0%	0%	92%	92%
10 Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11 Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Length of ROW across pasture/rangeland	4.79	0.84	0.26	0.32	0.07	0.76	0.02	0.39	0.50	0.48	0.31	0.45	0.00	0.14	0.42	1.60
14 Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 Number of pipeline crossings <sup>4</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Number of transmission line crossings	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Number of IH, US and state highway crossings	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
19 Number of farm-to-market (FM) road crossings	0	0	1	1	1	0	0	1	0	0	0	0	1	0	0	0
20 Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Number of private airstrips within 10,000 feet of the ROW centerline	2	2	1	0	0	2	0	0	0	2	2	0	0	0	2	3
24 Number of heliports within 5,000 feet of the ROW centerline	1	0	1	0	1	0	1	0	0	1	0	1	0	0	1	0
25 Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	2	0	0	0	2	1	0	0	1	2	0	0	0
<b>Aesthetics</b>																
27 Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	7.37	0.00	0.00	0.00	0.24	0.03	0.00	0.00	0.23	1.60	0.02	0.45	0.00	0.24	1.31	0.21
28 Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.00	0.00	0.51	0.99	0.00	0.00	0.08	0.52	0.00	0.00	0.00	0.49	0.07	0.00	0.00	2.02
29 Estimated length of ROW within foreground visual zone <sup>6(7)</sup> of parks/recreational areas <sup>3</sup>	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ecology</b>																
30 Length of ROW across upland woodlands/brushlands	4.27	0.33	1.33	0.72	0.12	0.93	0.08	0.69	1.07	0.92	0.51	1.60	0.07	0.16	1.98	1.42
31 Length of ROW across bottomland/iniparian woodlands	0.08	0.03	0.05	0.00	0.02	0.04	0.00	0.04	0.11	0.00	0.00	0.03	0.00	0.05	0.06	0.23
32 Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	42.8	0.2	6.6	0.0	0.0	5.0	0.1	2.2	3.9	4.5	0.0	8.7	0.0	0.0	21.5	2.2
35 Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Number of stream crossings	11	1	4	0	1	2	0	2	5	1	0	5	0	0	2	4
37 Number of river crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
38 Length of ROW parallel (within 100 feet) to streams or rivers	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.45	0.00
39 Length of ROW across 100-year floodplains	0.14	0.09	0.00	0.00	0.05	0.16	0.00	0.00	0.45	0.00	0.00	0.21	0.00	0.05	0.00	0.44
<b>Cultural Resources</b>																
40 Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
41 Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	4	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0
42 Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Length of ROW across areas of high archaeological/historic site potential	2.7	0.8	1.0	0.0	0.2	1.5	0.1	0.3	0.9	1.1	0.5	0.9	0.0	0.2	1.4	1.3

## Notes:

<sup>1</sup>Single-family and multi-family dwellings and related structures: mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2011b) formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2011a

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October, 2018 with the exception of high probability areas for archeological/historic resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet

Evaluation Criteria		Docket No. 45523 - Segment Data Chart																	LCRA TSC Exhibit No. 15	
	Land Use	Q1	Q2	Q3	Q4	R	R1	R2	R3	R4	S	S1	S2	S4	T	T1	T2			
1	Length of primary alternative route (miles)	1.15	0.94	0.38	0.79	1.24	0.74	0.97	0.36	1.11	1.48	0.53	0.93	2.63	0.41	1.52	1.45			
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	3	0	3	2	3	0	1	1	18	1	2	0	33	0	0	2			
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0			
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.00	0.00	0.00	0.33	0.61	0.55	0.36	0.88	0.00	0.30	0.00	1.38	0.00	0.17	0.51			
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	0.71	0.94	0.01	0.48	0.51	0.00	0.00	0.00	0.00	1.35	0.00	0.31	0.95	0.41	1.22	0.83			
8	Sum of evaluation criteria 4, 5, 6, and 7	0.71	0.94	0.01	0.48	0.84	0.61	0.55	0.36	0.88	1.35	0.30	0.31	2.33	0.41	1.39	1.34			
9	Percent of evaluation criteria 4, 5, 6, and 7	62%	100%	3%	61%	68%	82%	57%	100%	79%	91%	57%	33%	89%	100%	91%	92%			
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00			
13	Length of ROW across pasture/rangeland	0.71	0.25	0.12	0.17	0.64	0.44	0.20	0.36	0.39	0.15	0.00	0.00	0.53	0.36	0.98	0.67			
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
16	Number of pipeline crossings <sup>4</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18	Number of IH, US and state highway crossings	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0			
19	Number of farm-to-market (FM) road crossings	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0			
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	0	0	1	0	0	0	0	2	0	0	1	2	0	0			
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0			
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0			
Aesthetics																				
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.52	0.00	0.38	0.00	1.16	0.00	0.00	0.36	0.53	0.00	0.00	0.00	2.63	0.00	0.00	0.00			
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.00	0.00	0.00	0.00	0.00	0.74	0.41	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.45	0.00			
29	Estimated length of ROW within foreground visual zone <sup>6/7</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Ecology																				
30	Length of ROW across upland woodlands/brushlands	1.05	0.88	0.19	0.61	0.88	0.51	0.77	0.04	0.53	1.15	0.44	0.89	1.59	0.23	0.54	1.11			
31	Length of ROW across bottomland/inupian woodlands	0.00	0.05	0.05	0.00	0.10	0.00	0.00	0.00	0.01	0.16	0.03	0.03	0.04	0.00	0.04	0.00			
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	4.4	0.7	0.6	5.7	3.6	0.0	0.1	0.0	0.0	6.5	0.3	5.5	4.1	0.0	0.3	0.5			
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
36	Number of stream crossings	2	2	0	1	2	1	0	0	1	2	3	2	3	0	2	0			
37	Number of river crossings	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.00	0.00	0.00	0.00	0.10	0.00	0.12	0.00	0.00	0.15	0.00	0.02	0.00	0.00	0.01	0.07			
39	Length of ROW across 100-year floodplains	0.04	0.00	0.07	0.00	0.17	0.00	0.00	0.00	0.13	0.42	0.00	0.00	0.08	0.00	0.08	0.00			
Cultural Resources																				
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0			
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0			
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
44	Length of ROW across areas of high archeological/historic site potential	0.6	0.3	0.4	0.5	1.1	0.7	0.3	0.4	1.1	0.9	0.1	0.6	2.0	0.4	1.1	0.8			

**Notes**

<sup>1</sup>Single-family and multi-family dwellings, and related structures mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography flown February and October 2018 with the exception of high probability areas for archeological/historical resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Evaluation Criteria		T3	T4	U	U1	U2	U3	V	V1	V2	V3	V4	W	W1	W2	W3	W4
1	Length of primary alternative route (miles)	0.02	0.10	1.69	1.33	0.49	0.42	1.11	1.05	1.04	0.96	1.77	0.15	1.31	1.08	1.11	3.28
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	0	0	5	0	0	0	7	1	2	0	0	2	1	1	2	5
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.02	0.00	0.74	0.00	0.35	0.00	0.33	1.05	0.00	0.00	0.00	0.00	0.00	0.81	0.06	0.39
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	0.00	0.00	0.62	1.33	0.00	0.00	0.06	0.00	1.04	0.94	1.29	0.00	1.19	0.00	0.89	2.05
8	Sum of evaluation criteria 4, 5, 6, and 7	0.02	0.00	1.36	1.33	0.35	0.00	0.39	1.05	1.04	0.94	1.29	0.00	1.19	0.81	0.95	2.44
9	Percent of evaluation criteria 4, 5, 6, and 7	100%	0%	80%	100%	71%	0%	35%	100%	100%	98%	73%	0%	91%	75%	86%	74%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	0.02	0.05	0.70	1.13	0.00	0.08	0.02	0.47	0.55	0.17	0.10	0.00	0.83	1.06	0.50	1.71
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
16	Number of pipeline crossings <sup>4</sup>	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	Number of IH, US and state highway crossings	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
19	Number of farm-to-market (FM) road crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	2	0	0	0	1	0	0	2	2	0	0	0	0	3
24	Number of heliports within 5,000 feet of the ROW centerline	0	1	0	0	0	1	0	0	0	1	1	0	0	0	0	1
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	1	0	0	0	1	0	0	0	0	0	0	2	0	0
<b>Aesthetics</b>																	
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.00	0.10	1.52	0.00	0.00	0.00	0.97	0.00	0.00	0.04	0.02	0.15	0.00	0.00	0.05	1.06
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.49	1.08	0.59	2.22
29	Estimated length of ROW within foreground visual zone <sup>6(1)</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ecology</b>																	
30	Length of ROW across upland woodlands/brushlands	0.00	0.04	0.93	1.33	0.49	0.31	0.85	0.95	0.60	0.70	1.68	0.15	0.93	0.24	0.67	1.37
31	Length of ROW across bottomland/riparian woodlands	0.00	0.00	0.02	0.00	0.00	0.01	0.20	0.02	0.01	0.09	0.08	0.00	0.11	0.00	0.03	0.23
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	0	0	12.5	0	0.6	2.5	10.1	7.7	0	3.6	13.2	0	0.2	0	3.9	3.4
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	Number of stream crossings	0	0	2	0	0	2	2	1	0	1	1	0	2	0	1	6
37	Number of river crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
39	Length of ROW across 100-year floodplains	0.00	0.00	0.11	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.56
<b>Cultural Resources</b>																	
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	0	0	2	0	0	0	2	0	1	0	0	1	0	0	0	0
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archaeological/historic site potential	0.0	0.0	1.1	0.0	0.0	0.4	1.1	0.3	0.6	0.5	1.2	0.2	0.9	0.5	0.9	1.9

**Notes:**  
<sup>1</sup>Single-family and multi-family dwellings, and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b; formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>6(1)</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography from February and October 2018 with the exception of high probability areas for archeological/historical resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

Evaluation Criteria		Docket No. 49523 - Segment Data Chart											
	Land Use	X	X1	X2	X3	Y	Y1	Y2	Y3	Z	Z1	Z2	Z3
1	Length of primary alternative route (miles)	0.12	1.59	1.02	0.06	1.74	1.06	0.04	1.43	1.26	1.06	1.04	0.84
2	Number of habitable structures <sup>1</sup> within 300 feet of ROW centerline	0	1	0	1	0	1	0	0	0	0	0	2
3	Number of habitable structures <sup>1</sup> currently located within 300 feet of an existing transmission line ROW centerline	0	0	0	1	0	0	0	0	0	0	0	0
4	Length of ROW using existing transmission line ROW	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.00	0.00	0.00	1.50	1.02	0.00	0.00	1.26	0.00	0.00	0.00
7	Length of ROW parallel and adjacent to apparent property lines <sup>2</sup>	0.00	1.27	1.01	0.00	0.00	0.00	0.02	0.49	0.00	0.82	0.87	0.56
8	Sum of evaluation criteria 4, 5, 6, and 7	0.00	1.27	1.01	0.06	1.50	1.02	0.02	0.49	1.26	0.82	0.87	0.56
9	Percent of evaluation criteria 4, 5, 6, and 7	0%	80%	99%	100%	86%	96%	50%	34%	100%	77%	84%	67%
10	Length of ROW across parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas <sup>3</sup> within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
12	Length of ROW across cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Length of ROW across pasture/rangeland	0.08	0.00	0.59	0.00	1.25	0.41	0.03	0.28	1.10	0.98	0.48	0.06
14	Length of ROW across land irrigated by traveling systems (rolling or pivot type)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Length of ROW parallel and adjacent to pipelines <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Number of pipeline crossings <sup>4</sup>	0	1	0	0	0	0	0	0	0	0	0	0
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0
18	Number of IH, US and state highway crossings	1	0	0	0	0	0	0	0	0	0	0	1
19	Number of farm-to-market (FM) road crossings	0	0	0	0	0	1	1	0	0	0	0	0
20	Number of cemeteries within 1,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
21	Number of FAA registered public/military airports <sup>5</sup> with at least one runway more than 3,200 feet in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
22	Number of FAA registered public/military airports <sup>5</sup> having no runway more than 3,200 feet in length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	0	1	0	0	0	1	1	1	0	3
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	0	0	0	0	0	1	0	0	0	1
25	Number of commercial AM radio transmitters within 10,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
Aesthetics													
27	Estimated length of ROW within foreground visual zone <sup>6</sup> of IH, US and state highways	0.12	0.00	0.00	0.06	1.74	0.00	0.00	0.05	0.79	0.00	0.00	0.84
28	Estimated length of ROW within foreground visual zone <sup>6</sup> of FM roads	0.00	0.53	0.48	0.00	0.00	0.51	0.04	0.00	0.00	0.00	0.00	0.00
29	Estimated length of ROW within foreground visual zone <sup>6/7</sup> of parks/recreational areas <sup>3</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ecology													
30	Length of ROW across upland woodlands/brushlands	0.02	1.49	0.63	0.02	1.45	0.69	0.00	1.15	0.33	0.97	0.60	0.70
31	Length of ROW across bottomland/riparian woodlands	0.00	0.09	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.06	0.02
32	Length of ROW across NWI mapped wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Length of ROW across known habitat of federally listed endangered or threatened species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	0.0	4.8	5.3	0.1	0.0	0.6	0.0	2.3	0.0	0.1	0.0	0.7
35	Length of ROW across open water (lakes, ponds)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
36	Number of stream crossings	0	1	2	0	1	0	0	0	0	1	2	1
37	Number of river crossings	0	0	0	0	0	0	0	0	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
39	Length of ROW across 100-year floodplains	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Cultural Resources													
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	1	0	0	0	1	0	0	0	0	0	0	1
42	Number of National Register-listed or determined eligible sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	0	0
43	Number of additional National Register-listed or determined eligible sites within 1,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
44	Length of ROW across areas of high archeological/historic site potential	0.1	0.5	0.6	0.1	0.5	0.3	0.0	0.7	0.2	0.3	0.6	0.6

**Notes**

<sup>1</sup>Single family and multi-family dwellings and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230kV or less.

<sup>2</sup>Apparent property boundaries created by existing roads, highways, or railroad ROWs are not "double-counted" in the length of ROW parallel to apparent property boundaries criteria.

<sup>3</sup>Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

<sup>4</sup>Only metallic pipelines six inches and greater in diameter carrying hydrocarbons were quantified in the pipeline crossing and paralleling calculations.

<sup>5</sup>As listed in the Chart Supplement South Central U.S. (FAA 2018b formerly known as the Airport/Facility Directory South Central U.S.) and FAA 2018a.

<sup>6</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of interstates, US and state highway criteria are not "double-counted" in the length of ROW within the visual foreground zone of FM roads criteria.

<sup>7</sup>One-half mile, unobstructed. Lengths of ROW within the visual foreground zone of parks/recreational areas may overlap with the total length of ROW within the visual foreground zone of interstates, US and state highway criteria and/or with the total length of ROW within the visual foreground zone of FM roads criteria.

All length measurements are shown in miles unless noted otherwise. All linear measurements were obtained from aerial photography (from February and October, 2018) with the exception of high probability areas for archeological/historical resources which were measured from the USGS Topographic Quadrangles. The aerial photography was orthorectified to National Map Accuracy Standards of +/- 9 feet.

### Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	A	A1	A2	A3	A4	B	B1	B2	B3	B4	C	C1
	5.55	0.52	1.79	1.44	1.24	0.26	0.41	3.60	2.06	0.36	2.39	0.46
	5	5	0	0	0	5	0	3	0	0	9	0
ROW centerline	1	0	0	0	0	5	0	0	0	0	3	0
	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.64	0.00	0.36	0.00	0.17
	3.98	0.50	1.47	1.11	0.78	0.00	0.00	1.40	1.83	0.00	2.14	0.00
	3.98	0.50	1.47	1.11	0.82	0.26	0.00	3.04	1.83	0.36	2.14	0.46
	72%	96%	82%	77%	66%	100%	0%	84%	89%	100%	90%	100%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2.33	0.02	1.26	1.06	0.66	0.00	0.00	2.16	1.80	0.36	1.49	0.11
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	1	0	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
gth located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	1	0	1	1	1	1	0	2	1	0
	1	0	0	0	0	0	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
00 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	1
	0.00	0.04	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.46
	1.01	0.00	0.00	0.47	0.00	0.20	0.00	1.14	0.46	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.19	0.50	1.79	0.62	0.57	0.26	0.41	2.07	0.96	0.35	1.64	0.33
	0.24	0.00	0.00	0.07	0.03	0.00	0.00	0.19	0.01	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
);	43.9	5.6	3.4	2.8	2.3	3.2	1.0	5.0	0.2	0.0	9.8	2.7
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10	1	1	2	1	0	0	2	2	0	1	0
	0	0	0	1	0	0	0	0	0	0	0	0
	0.57	0.00	0.00	0.00	0.02	0.00	0.00	0.08	0.22	0.00	0.00	0.00
	0.19	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ocial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**  
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LCRA TSC Exhibit No. 15

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Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	C2	C3	C4	C5	D	D1	D2	D3	D4	E	E1	E2
	1.98	1.03	1.52	1.95	1.44	1.21	0.07	1.00	0.43	1.99	0.15	2.01
	6	1	0	0	0	1	0	0	0	0	0	9
ROW centerline	0	0	0	0	0	1	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00
	0.51	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.28	0.00	1.00	1.69	1.20	0.00	0.06	0.00	0.43	1.54	0.00	1.88
	1.79	0.87	1.00	1.69	1.20	1.21	0.06	0.00	0.43	1.54	0.00	1.88
	90%	84%	66%	87%	83%	100%	86%	0%	100%	77%	0%	94%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.70	0.51	0.72	0.56	1.44	0.00	0.03	0.57	0.43	1.99	0.05	1.20
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	0
	0	0	0	0	0	0	0	0	0	0	1	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	1	1	1	0	0	1	1	0	0
	0	0	0	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
30 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.15	0.00
	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.17	0.70	0.78	1.56	0.75	1.17	0.07	0.76	0.29	1.44	0.06	1.00
	0.11	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.13
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
i)	7.3	4.7	0.0	11.8	0.9	8.3	0.4	1.7	0.1	4.4	0.8	5.0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	2	3	1	0	5	0	0	0	1	0	5
	0	0	0	0	0	0	0	0	0	0	0	0
	0.43	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04
	0.00	0.00	0.10	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00

agricultural structures, industrial structures, and other structures that are not  
to be inhabited by humans on a daily or regular basis within

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## Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	E3	E4	F	F1	F2	F3	F4	G1	G2	G3	G4	H1
	1.48	4.47	1.58	0.14	1.14	1.47	0.26	0.94	1.13	2.39	1.22	0.29
	1	30	13	0	0	2	5	2	0	1	23	0
ROW centerline	0	30	13	0	0	0	2	0	0	0	0	0
	0.00	4.47	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.11	0.00	0.19	0.00	0.60	0.14	1.15	0.00
	1.19	0.00	0.00	0.00	0.01	1.34	0.00	0.51	0.30	2.01	0.00	0.00
	1.19	4.47	1.58	0.00	1.12	1.34	0.19	0.51	0.90	2.15	1.15	0.00
	80%	100%	100%	0%	98%	91%	73%	54%	80%	90%	94%	0%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.21	1.16	0.07	0.02	1.01	0.38	0.05	0.27	0.18	0.49	0.35	0.19
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	1	0	0	0	1	0	0	0	0
	0	1	0	1	0	0	0	1	0	0	2	0
	1	0	0	0	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
gth located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	0	0	0	2	0	0	0	0
	0	0	0	1	0	0	0	1	0	0	0	1
	0	0	0	0	0	0	0	0	0	0	0	0
00 feet of ROW centerline	0	1	0	0	0	0	0	0	0	1	0	0
	0.00	0.58	0.00	0.14	0.00	0.00	0.26	0.94	0.00	0.00	1.22	0.29
	0.61	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.89	2.77	1.43	0.07	0.62	1.15	0.17	0.84	1.02	2.01	0.71	0.29
	0.02	0.03	0.00	0.00	0.10	0.04	0.00	0.00	0.10	0.00	0.03	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
i)	2.8	30.0	13.5	0.5	0.0	4.0	0.0	3	1.1	8.6	1.5	0.5
	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	3	2	0	3	2	1	1	3	2	2	0
	1	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.22	0.00
	0.00	0.29	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.11	0.00

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LCRA TSC Exhibit No. 15

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	H2	H3	H4	I	I1	I2	I3	I4	I5	J	J1	J2
	2.23	0.59	1.07	2.15	1.21	1.03	0.89	0.71	0.37	0.93	0.30	1.91
	0	1	0	0	0	0	0	1	0	0	0	0
ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.10	0.00	0.00	1.21	0.00	0.89	0.00	0.00	0.00	0.29	0.00
	1.76	0.35	0.77	0.72	0.00	1.03	0.00	0.42	0.37	0.93	0.00	1.40
	1.76	0.45	0.77	0.72	1.21	1.03	0.89	0.42	0.37	0.93	0.29	1.40
	79%	76%	72%	33%	100%	100%	100%	59%	100%	100%	97%	73%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.03	0.46	0.48	0.91	0.23	0.80	0.38	0.31	0.00	0.93	0.22	1.09
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
length located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	2	2	0	0	0	2	1	1	0	0
	0	0	1	1	1	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
300 feet of ROW centerline	0	1	0	0	1	0	0	0	0	0	0	0
	0.00	0.00	0.58	0.00	1.21	0.00	0.00	0.71	0.00	0.00	0.30	0.00
	0.52	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.53	0.12	0.48	1.14	1.19	0.75	0.53	0.35	0.37	0.42	0.08	1.44
	0.10	0.00	0.07	0.08	0.02	0.04	0.06	0.03	0.00	0.00	0.00	0.06
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
.)	2.9	1.0	2.9	18.6	7.6	1.3	0.1	4.5	4.4	6.4	0.6	3.7
	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0	1	2	3	1	1	1	0	0	0	3
	0	0	0	0	0	0	0	0	0	0	0	0
	0.10	0.01	0.07	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.15
	0.00	0.05	0.30	0.00	0.09	0.00	0.00	0.05	0.00	0.00	0.05	0.00

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Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	J3	J4	K	K2	K3	K4	L	L1	L2	L3	L4	M
	2.55	2.25	1.17	1.04	3.52	2.40	2.47	0.85	1.04	1.12	0.67	1.04
	4	9	0	4	4	2	2	2	0	0	0	0
ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.23	0.21	0.00	1.04	0.20	0.00	0.47	0.85	0.01	0.00	0.00	1.04
	0.50	1.59	1.08	0.00	1.56	1.46	1.84	0.00	0.26	1.11	0.41	0.00
	1.73	1.80	1.08	1.04	1.76	1.46	2.31	0.85	0.27	1.11	0.41	1.04
	68%	80%	92%	100%	50%	61%	94%	100%	26%	99%	61%	100%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.54	0.65	0.76	0.00	1.71	0.99	2.31	0.00	0.39	0.11	0.18	1.04
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	0	0	0	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	1	0	0	0	1	0	1	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
gth located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	1	1	0	0	0	3	2
	0	0	0	0	0	0	0	1	0	0	1	0
	0	0	0	0	0	0	0	0	0	0	0	0
00 feet of ROW centerline	0	0	0	0	0	0	0	0	0	1	0	0
	0.00	0.65	0.00	0.00	0.00	0.56	0.00	0.36	0.00	0.00	0.67	0.00
	2.45	0.00	0.00	1.04	1.72	0.00	0.00	0.49	0.51	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.15	1.54	1.17	1.02	3.15	1.25	0.97	0.85	0.78	0.91	0.51	0.34
	0.18	0.03	0.00	0.00	0.22	0.06	0.04	0.00	0.12	0.06	0.02	0.00
	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
i)	2.9	10.0	3.1	0.7	2.8	6.2	7.0	1.1	2.2	5.3	3.2	0.0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	2	1	0	6	4	2	1	4	2	1	1
	1	0	0	0	1	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00
	0.24	0.29	0.00	0.00	0.19	0.30	0.00	0.00	0.00	0.00	0.22	0.00

ocial structures, industrial structures, **Docket No. 19-523 - Segment Data Chart**  
o be inhabited by humans on a daily or regular basis within

LCRA TSC Exhibit No. 15

ed" in the length of ROW parallel to apparent property

rch within 1,000 feet of the centerline of the project

line crossing and paralleling calculations

ectory South Central U.S.) and FAA 2018a

highway criteria are not "double-counted" in the length of

may overlap with the total length of ROW within the visual  
visual foreground zone of FM roads criteria

d from aerial photography flown February and October, 2018  
the USGS Topographic Quadrangles. The aerial



Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	M1	M2	M3	M4	N	N1	N2	N4	O	O1	O2	O3
	2.53	2.26	0.40	9.33	0.88	1.44	0.99	0.24	1.47	0.08	1.07	1.56
	19	1	0	5	0	5	0	0	1	0	1	0
ROW centerline	0	0	0	1	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.29	0.00	0.40	5.50	0.00	0.00	0.95	0.00	0.00	0.08	0.46	0.41
	1.12	2.13	0.00	0.87	0.73	1.42	0.00	0.11	1.01	0.00	0.46	0.90
	2.41	2.13	0.40	8.25	0.73	1.42	0.95	0.11	1.01	0.08	0.92	1.31
	95%	94%	100%	88%	83%	99%	96%	46%	69%	100%	86%	84%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	2	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.54	1.02	0.13	4.79	0.84	0.26	0.32	0.07	0.76	0.02	0.39	0.50
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	1	0	0	0	0	0	0	0	0	0	0
	0	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1	0	0	1	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
th located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	2	2	1	0	0	2	0	0	0
	1	0	0	1	0	1	0	1	0	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
30 feet of ROW centerline	2	0	0	0	0	0	2	0	0	0	2	1
	1.75	0.00	0.02	7.37	0.00	0.00	0.00	0.24	0.03	0.00	0.00	0.23
	0.00	0.00	0.38	0.00	0.00	0.51	0.99	0.00	0.00	0.08	0.52	0.00
	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2.35	1.65	0.40	4.27	0.33	1.33	0.72	0.12	0.93	0.08	0.69	1.07
	0.09	0.06	0.00	0.08	0.03	0.05	0.00	0.02	0.04	0.00	0.04	0.11
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
i)	12.9	4.1	0.0	42.8	0.2	6.6	0.0	0.0	5.0	0.1	2.2	3.9
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
	4	3	0	11	1	4	0	1	2	0	2	5
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.17	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
	0.01	0.00	0.00	0.14	0.09	0.00	0.00	0.05	0.16	0.00	0.00	0.45

ercial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**  
o be inhabited by humans on a daily or regular basis within

LCRA TSC Exhibit No. 15

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rch within 1,000 feet of the centerline of the project.

line crossing and paralleling calculations.

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Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	O4	P	P1	P2	P3	P4	Q	Q1	Q2	Q3	Q4	R
	1.60	0.54	1.86	0.07	0.24	2.47	2.44	1.15	0.94	0.38	0.79	1.24
	5	0	0	0	1	2	0	3	0	3	2	3
ROW centerline	0	0	0	0	0	0	0	0	0	1	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.35	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
	0.18	0.51	1.69	0.00	0.00	2.28	2.24	0.71	0.94	0.01	0.48	0.51
	1.53	0.51	1.81	0.00	0.00	2.28	2.24	0.71	0.94	0.01	0.48	0.84
	96%	94%	97%	0%	0%	92%	92%	62%	100%	3%	61%	68%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.48	0.31	0.45	0.00	0.14	0.42	1.60	0.71	0.25	0.12	0.17	0.64
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	1
	0	0	0	0	1	0	0	0	0	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
th located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	0	0	0	2	3	0	0	0	0	1
	1	0	1	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
00 feet of ROW centerline	0	0	1	2	0	0	0	0	0	0	0	0
	1.60	0.02	0.45	0.00	0.24	1.31	0.21	0.52	0.00	0.38	0.00	1.16
	0.00	0.00	0.49	0.07	0.00	0.00	2.02	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00
	0.92	0.51	1.60	0.07	0.16	1.98	1.42	1.05	0.88	0.19	0.61	0.88
	0.00	0.00	0.03	0.00	0.05	0.06	0.23	0.00	0.05	0.05	0.00	0.10
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
i)	4.5	0.0	8.7	0.0	0.0	21.5	2.2	4.4	0.7	0.6	5.7	3.6
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	1	0	5	0	0	2	4	2	2	0	1	2
	0	0	0	0	1	0	0	0	0	1	0	0
	0.00	0.00	0.07	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.10
	0.00	0.00	0.21	0.00	0.05	0.00	0.44	0.04	0.00	0.07	0.00	0.17

ocial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**

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d from aenal photography flown February and October, 2018  
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Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	R1	R2	R3	R4	S	S1	S2	S4	T	T1	T2	T3
	0.74	0.97	0.36	1.11	1.48	0.53	0.93	2.63	0.41	1.52	1.45	0.02
	0	1	1	18	1	2	0	33	0	0	2	0
ROW centerline	0	0	1	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.61	0.55	0.36	0.88	0.00	0.30	0.00	1.38	0.00	0.17	0.51	0.02
	0.00	0.00	0.00	0.00	1.35	0.00	0.31	0.95	0.41	1.22	0.83	0.00
	0.61	0.55	0.36	0.88	1.35	0.30	0.31	2.33	0.41	1.39	1.34	0.02
	82%	57%	100%	79%	91%	57%	33%	89%	100%	91%	92%	100%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
	0.44	0.20	0.36	0.39	0.15	0.00	0.00	0.53	0.36	0.98	0.67	0.02
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	2	0	0	0	0
	1	0	0	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
th located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	2	0	0	1	2	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
00 feet of ROW centerline	0	1	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.36	0.53	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
	0.74	0.41	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.45	0.00	0.02
	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.51	0.77	0.04	0.53	1.15	0.44	0.89	1.59	0.23	0.54	1.11	0.00
	0.00	0.00	0.00	0.01	0.16	0.03	0.03	0.04	0.00	0.04	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
)	0.0	0.1	0.0	0.0	6.5	0.3	5.5	4.1	0.0	0.3	0.5	0.0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	0	0	1	2	3	2	3	0	2	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.12	0.00	0.00	0.15	0.00	0.02	0.00	0.00	0.01	0.07	0.00
	0.00	0.00	0.00	0.13	0.42	0.00	0.00	0.08	0.00	0.08	0.00	0.00

ocial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**  
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	T4	U	U1	U2	U3	V	V1	V2	V3	V4	W	W1
	0.10	1.69	1.33	0.49	0.42	1.11	1.05	1.04	0.96	1.77	0.15	1.31
	0	5	0	0	0	7	1	2	0	0	2	1
ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.74	0.00	0.35	0.00	0.33	1.05	0.00	0.00	0.00	0.00	0.00
	0.00	0.62	1.33	0.00	0.00	0.06	0.00	1.04	0.94	1.29	0.00	1.19
	0.00	1.36	1.33	0.35	0.00	0.39	1.05	1.04	0.94	1.29	0.00	1.19
	0%	80%	100%	71%	0%	35%	100%	100%	98%	73%	0%	91%
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.05	0.70	1.13	0.00	0.08	0.02	0.47	0.55	0.17	0.10	0.00	0.83
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	0	1	0	0	0	0	1
	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	0	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
gth located within 10,000 feet of ROW centerline	0	0	0	0	0	0	0	0	0	0	0	0
	0	2	0	0	0	1	0	0	2	2	0	0
	1	0	0	0	1	0	0	0	1	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
30 feet of ROW centerline	0	1	0	0	0	1	0	0	0	0	0	0
	0.10	1.52	0.00	0.00	0.00	0.97	0.00	0.00	0.04	0.02	0.15	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.49
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.04	0.93	1.33	0.49	0.31	0.85	0.95	0.60	0.70	1.68	0.15	0.93
	0.00	0.02	0.00	0.00	0.01	0.20	0.02	0.01	0.09	0.08	0.00	0.11
	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
;) )	0.0	12.5	0.0	0.6	2.5	10.1	7.7	0.0	3.6	13.2	0.0	0.2
	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	2	0	0	2	2	1	0	1	1	0	2
	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.11	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00

mercial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**  
to be inhabited by humans on a daily or regular basis within

LCRA TSC Exhibit No. 15

ed" in the length of ROW parallel to apparent property

rch within 1,000 feet of the centerline of the project.

line crossing and paralleling calculations

ectory South Central U.S.) and FAA 2018a.

highway criteria are not "double-counted" in the length of

may overlap with the total length of ROW within the visual  
visual foreground zone of FM roads criteria.

d from aerial photography flown February and October, 2018  
the USGS Topographic Quadrangles. The aerial





ocial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**  
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LCRA TSC Exhibit No. 15

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visual foreground zone of FM roads cntena.

d from aenal photography flown February and October, 2018  
the USGS Topographic Quadrangles The aerial

Docket No. 49523 - Segment Data Chart

LCRA TSC Exhibit No. 15

	Z1	Z2	Z3
	1.06	1.04	0.84
	0	0	2
ROW centerline	0	0	0
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.82	0.87	0.56
	0.82	0.87	0.56
	77%	84%	67%
	0.00	0.00	0.00
	0	0	0
	0.00	0.00	0.00
	0.98	0.48	0.06
	0.00	0.00	0.00
	0.00	0.00	0.00
	0	0	0
	0	0	0
	0	0	1
	0	0	0
	0	0	0
in length located within 20,000 feet of ROW centerline	0	0	0
gth located within 10,000 feet of ROW centerline	0	0	0
	1	0	3
	0	0	1
	0	0	0
00 feet of ROW centerline	0	0	0
	0.00	0.00	0.84
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.97	0.60	0.70
	0.00	0.06	0.02
	0.00	0.00	0.00
	0.00	0.00	0.00
i)	0.1	0.0	0.7
	0.00	0.00	0.02
	1	2	1
	0	0	0
	0.00	0.00	0.00
	0.00	0.00	0.18

ercial structures, industrial structures, **Docket No. 49523 - Segment Data Chart**  
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