

Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments														
Land Use		A	A1	A2	A3	A4	B	B1	B2	B3	B4	C	C1	C2	C3	
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	
2	Number of habitable structures ¹ within 300 feet of ROW centerline	5	5	0	0	0	5	0	3	0	0	9	0	6	1	
3	Number of habitable structures ¹ 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	
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	
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	
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	
7	Length of ROW parallel and adjacent to apparent property lines ²	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	
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	
9	Percent of evaluation criteria 4, 5, 6, and 7	72%	96%	82%	77%	66%	100%	0%	84%	89%	100%	90%	100%	90%	84%	
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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	
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	
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	
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	0	0	1	0	0	0	0	1	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	
18	Number of IH, US and state highway crossings	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	
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	
21	Number of FAA registered public/military airports ⁵ 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	
22	Number of FAA registered public/military airports ⁵ 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	
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	
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	
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	
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	
Aesthetics																
27	Estimated length of ROW within foreground visual zone ⁶ 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	
28	Estimated length of ROW within foreground visual zone ⁶ 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	
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	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	
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	
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	
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	
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	3.3	1.0	5.0	0.2	0.0	9.8	2.7	7.3	4.7	
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	0.00	0.00	0.00	
36	Number of stream crossings	10	1	1	2	1	0	0	2	2	0	1	0	5	2	
37	Number of river crossings	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	0.57	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	
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	
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	
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	
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	
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	
44	Length of ROW across areas of high archeological/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	

Notes: ¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

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Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments													
Land Use		C4	D	D1	D2	D3	D4	E	E1	E2	E3	E4	F	F1	F2
1	Length of primary alternative route (miles)	1.52	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
2	Number of habitable structures ¹ within 300 feet of ROW centerline	0	0	1	0	0	0	0	0	9	1	30	13	0	0
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	0	0	1	0	0	0	0	0	0	0	30	13	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	4.47	1.58	0.00	0.00
5	Length of ROW parallel and adjacent to existing transmission line ROW	0.00	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
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
7	Length of ROW parallel and adjacent to apparent property lines ²	1.00	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
8	Sum of evaluation criteria 4, 5, 6, and 7	1.00	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
9	Percent of evaluation criteria 4, 5, 6, and 7	66%	83%	100%	86%	0%	100%	77%	0%	94%	80%	100%	100%	0%	98%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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
13	Length of ROW across pasture/rangeland	0.72	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
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
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	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	1	0	0	0	0	1	0
18	Number of IH, US and state highway crossings	0	0	0	0	0	0	0	1	0	0	1	0	1	0
19	Number of farm-to-market (FM) road crossings	0	0	0	0	0	0	0	0	0	1	0	0	0	1
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
21	Number of FAA registered public/military airports ⁵ 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
22	Number of FAA registered public/military airports ⁵ 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
23	Number of private airstrips within 10,000 feet of the ROW centerline	1	1	1	0	0	1	1	0	0	0	1	1	1	0
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	1	0	0	0	0	0	0	0	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
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	0
Aesthetics															
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.00	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
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	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
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	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	0.78	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
31	Length of ROW across bottomland/riparian woodlands	0.00	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
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
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
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	0.0	0.9	8.3	0.4	1.7	0.1	4.4	0.8	5.0	2.8	30.4	13.2	0.5	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	0.01	0.00	0.00	0.00
36	Number of stream crossings	3	0	5	0	0	0	1	0	5	1	3	2	0	3
37	Number of river crossings	0	0	0	0	0	0	0	0	0	1	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.00	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
39	Length of ROW across 100-year floodplains	0.10	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
Cultural Resources															
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	0	0	0	0	0	2	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	0	0	2	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
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
44	Length of ROW across areas of high archeological/historic site potential	1.0	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

Notes: ¹Single-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.

²Apparent 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.

³Defined 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.

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

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Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments														
Land Use		F3	F4	G1	G2	G3	G4	H1	H2	H3	H4	I	I1	I2	I3	
1	Length of primary alternative route (miles)	1.47	0.26	0.94	1.13	2.39	1.22	0.29	2.23	0.59	1.07	2.15	1.21	1.03	0.89	
2	Number of habitable structures ¹ within 300 feet of ROW centerline	2	5	2	0	1	23	0	0	1	0	0	0	0	0	
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	0	1	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	
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	
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.19	0.00	0.60	0.14	1.15	0.00	0.00	0.10	0.00	0.00	1.21	0.00	0.89	
7	Length of ROW parallel and adjacent to apparent property lines ²	1.34	0.00	0.37	0.30	2.01	0.00	0.00	1.76	0.35	0.77	1.58	0.00	1.03	0.00	
8	Sum of evaluation criteria 4, 5, 6, and 7	1.34	0.19	0.37	0.90	2.15	1.15	0.00	1.76	0.45	0.77	1.58	1.21	1.03	0.89	
9	Percent of evaluation criteria 4, 5, 6, and 7	91%	73%	39%	80%	90%	94%	0%	79%	76%	72%	73%	100%	100%	100%	
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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	
13	Length of ROW across pasture/rangeland	0.38	0.05	0.27	0.18	0.49	0.35	0.19	1.03	0.46	0.48	0.91	0.23	0.80	0.38	
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	0.00	0.00	
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Number of transmission line crossings	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
18	Number of IH, US and state highway crossings	0	0	1	0	0	2	0	0	0	1	0	0	0	0	
19	Number of farm-to-market (FM) road crossings	0	0	0	0	0	0	0	1	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	
21	Number of FAA registered public/military airports ⁵ 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	
22	Number of FAA registered public/military airports ⁵ 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	
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	2	0	0	0	0	0	0	2	2	0	0	0	
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	1	0	0	0	1	0	0	1	1	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	
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	0	0	1	0	0	0	1	0	0	1	0	0	
Aesthetics																
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.00	0.26	0.94	0.00	0.00	1.22	0.29	0.00	0.00	0.58	0.00	1.21	0.00	0.00	
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.89	
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	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	1.15	0.17	0.84	1.02	2.01	0.71	0.29	1.53	0.12	0.48	1.14	1.19	0.75	0.53	
31	Length of ROW across bottomland/riparian woodlands	0.04	0.00	0.00	0.10	0.00	0.03	0.00	0.10	0.00	0.07	0.08	0.02	0.04	0.06	
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	
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	
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	4.0	0.0	2.8	1.1	8.6	1.5	0.5	2.9	1.0	2.9	18.6	7.7	1.3	0.1	
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	
36	Number of stream crossings	2	1	1	3	2	2	0	4	0	1	2	3	1	1	
37	Number of river crossings	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	0.05	0.07	0.00	0.00	0.00	0.22	0.00	0.10	0.01	0.07	0.00	0.00	0.00	0.00	
39	Length of ROW across 100-year floodplains	0.07	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.05	0.30	0.00	0.09	0.00	0.00	
Cultural Resources																
40	Number of recorded historic or prehistoric sites crossed by ROW	0	1	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	1	0	0	0	2	0	0	0	2	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	
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	
44	Length of ROW across areas of high archeological/historic site potential	1.0	0.3	0.4	0.8	0.4	0.9	0.0	1.1	0.3	0.7	1.3	0.7	0.4	0.6	

Notes: ¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments													
Land Use	I4	J	J1	J2	J3	J4	K	K2	K3	K4	L	L1	L2	L3	
1	Length of primary alternative route (miles)	0.71	0.93	0.30	1.91	2.55	2.25	1.17	1.04	3.52	2.40	2.47	0.85	1.04	1.12
2	Number of habitable structures ¹ within 300 feet of ROW centerline	1	0	0	0	4	9	0	4	4	2	2	0	0	0
3	Number of habitable structures ¹ 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
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
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
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.00	0.29	0.00	1.23	0.21	0.00	1.04	0.20	0.00	0.47	0.85	0.01	0.00
7	Length of ROW parallel and adjacent to apparent property lines ²	0.42	0.93	0.00	1.40	0.50	1.59	1.08	0.00	1.56	1.46	1.84	0.00	0.26	1.11
8	Sum of evaluation criteria 4, 5, 6, and 7	0.42	0.93	0.29	1.40	1.73	1.80	1.08	1.04	1.76	1.46	2.31	0.85	0.27	1.11
9	Percent of evaluation criteria 4, 5, 6, and 7	59%	100%	97%	73%	68%	80%	92%	100%	50%	61%	94%	100%	26%	99%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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
13	Length of ROW across pasture/rangeland	0.31	0.93	0.22	1.09	1.54	0.65	0.76	0.00	1.71	0.99	2.31	0.00	0.39	0.11
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
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	0	0	0	0	1	0	0	0	1	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
18	Number of IH, US and state highway crossings	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	1	0	0	0	1	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
21	Number of FAA registered public/military airports ⁵ 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
22	Number of FAA registered public/military airports ⁵ 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
23	Number of private airstrips within 10,000 feet of the ROW centerline	2	1	0	0	0	0	1	0	0	1	1	0	0	0
24	Number of heliports within 5,000 feet of the ROW centerline	1	0	0	0	0	0	0	0	0	0	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
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	0	1
Aesthetics															
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.71	0.00	0.30	0.00	0.00	0.65	0.00	0.00	0.00	0.56	0.00	0.36	0.00	0.00
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	0.00	0.00	0.00	2.45	0.00	0.00	1.04	1.72	0.00	0.00	0.49	0.51	0.00
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	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	0.35	0.42	0.08	1.44	1.15	1.54	1.17	1.02	3.15	1.25	0.97	0.85	0.78	0.91
31	Length of ROW across bottomland/riparian woodlands	0.03	0.00	0.00	0.06	0.18	0.03	0.00	0.00	0.22	0.06	0.04	0.00	0.12	0.06
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	0.01	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
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	4.5	6.4	0.6	3.7	2.9	10.0	3.1	0.7	2.8	6.2	7.0	1.1	2.2	5.3
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	0.00	0.00	0.00	0.00	0.00
36	Number of stream crossings	1	0	0	3	4	2	1	0	6	4	2	1	4	2
37	Number of river crossings	0	0	0	0	1	0	0	0	1	0	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	0.03	0.00	0.00	0.15	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.35	0.00
39	Length of ROW across 100-year floodplains	0.05	0.00	0.05	0.00	0.24	0.29	0.00	0.00	0.19	0.30	0.00	0.00	0.00	0.00
Cultural Resources															
40	Number of recorded historic or prehistoric sites crossed by ROW	1	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	1	0	1	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
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
44	Length of ROW across areas of high archeological/historic site potential	0.7	0.5	0.3	1.4	1.5	1.5	0.4	0.6	2.5	1.4	1.0	0.4	0.9	0.4

¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments														
Land Use		L4	M	M1	M2	M3	M4	N	N1	N2	N4	O	O1	O2	O3	
1	Length of primary alternative route (miles)	0.67	1.04	2.53	2.26	0.40	9.33	0.88	1.44	0.99	0.24	1.47	0.08	1.07	1.56	
2	Number of habitable structures ¹ within 300 feet of ROW centerline	0	0	19	1	0	5	0	5	0	0	1	0	1	0	
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	0	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	
5	Length of ROW parallel and adjacent to existing transmission line ROW	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	
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	1.04	1.29	0.00	0.40	5.50	0.00	0.00	0.95	0.00	0.00	0.08	0.46	0.41	
7	Length of ROW parallel and adjacent to apparent property lines ²	0.41	0.00	1.12	2.13	0.00	0.87	0.73	1.42	0.00	0.11	1.01	0.00	0.46	0.90	
8	Sum of evaluation criteria 4, 5, 6, and 7	0.41	1.04	2.41	2.13	0.40	8.25	0.73	1.42	0.95	0.11	1.01	0.08	0.92	1.31	
9	Percent of evaluation criteria 4, 5, 6, and 7	61%	100%	95%	94%	100%	88%	83%	99%	96%	46%	69%	100%	86%	84%	
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	0	0	0	0	0	2	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	
13	Length of ROW across pasture/rangeland	0.18	1.04	0.54	1.02	0.13	4.79	0.84	0.26	0.32	0.07	0.76	0.02	0.39	0.50	
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	
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
17	Number of transmission line crossings	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
18	Number of IH, US and state highway crossings	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
19	Number of farm-to-market (FM) road crossings	1	0	0	0	0	0	0	1	1	1	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	
21	Number of FAA registered public/military airports ⁵ 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	
22	Number of FAA registered public/military airports ⁵ 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	
23	Number of private airstrips within 10,000 feet of the ROW centerline	3	2	2	0	0	2	2	1	0	0	2	0	0	0	
24	Number of heliports within 5,000 feet of the ROW centerline	1	0	1	0	0	1	0	1	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	
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	2	0	0	0	0	0	2	0	0	0	2	1	
Aesthetics																
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.67	0.00	1.75	0.00	0.02	7.37	0.00	0.00	0.00	0.24	0.03	0.00	0.00	0.23	
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.51	0.99	0.00	0.00	0.08	0.52	0.00	
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	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	
Ecology																
30	Length of ROW across upland woodlands/brushlands	0.51	0.34	2.35	1.65	0.40	4.27	0.33	1.33	0.72	0.12	0.93	0.08	0.69	1.07	
31	Length of ROW across bottomland/riparian woodlands	0.02	0.00	0.09	0.06	0.00	0.08	0.03	0.05	0.00	0.02	0.04	0.00	0.04	0.11	
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	
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	
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	3.2	0.0	12.9	4.1	0.0	42.8	0.2	6.6	0.0	0.0	5.0	0.1	2.2	3.9	
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	0.02	0.00	0.00	0.00	
36	Number of stream crossings	1	1	4	3	0	11	1	4	0	1	2	0	2	5	
37	Number of river crossings	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	0.17	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
39	Length of ROW across 100-year floodplains	0.22	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	
Cultural Resources																
40	Number of recorded historic or prehistoric sites crossed by ROW	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	1	1	0	0	0	4	0	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	
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	
44	Length of ROW across areas of high archeological/historic site potential	0.5	0.3	1.5	1.5	0.4	2.7	0.8	1.0	0.0	0.2	1.5	0.1	0.3	0.9	

Notes: ¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		O4	P	P1	P2	P3	P4	Q	Q1	Q2	Q3	Q4	R	R1	R2
1	Length of primary alternative route (miles)	1.60	0.54	1.86	0.07	0.24	2.47	2.44	1.15	0.94	0.38	0.79	1.24	0.74	0.97
2	Number of habitable structures ¹ within 300 feet of ROW centerline	5	0	0	0	1	2	0	3	0	3	2	3	0	1
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	0	0	0	0	0	0	0	0	0	1	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
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
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	1.35	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.61	0.55
7	Length of ROW parallel and adjacent to apparent property lines ²	0.18	0.51	1.69	0.00	0.00	2.28	2.24	0.71	0.94	0.01	0.48	0.51	0.00	0.00
8	Sum of evaluation criteria 4, 5, 6, and 7	1.53	0.51	1.81	0.00	0.00	2.28	2.24	0.71	0.94	0.01	0.48	0.84	0.61	0.55
9	Percent of evaluation criteria 4, 5, 6, and 7	96%	94%	97%	0%	0%	92%	92%	62%	100%	3%	61%	68%	82%	57%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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
13	Length of ROW across pasture/rangeland	0.48	0.31	0.45	0.00	0.14	0.42	1.60	0.71	0.25	0.12	0.17	0.64	0.44	0.20
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
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	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
18	Number of IH, US and state highway crossings	2	0	0	0	0	0	0	0	0	0	0	1	0	0
19	Number of farm-to-market (FM) road crossings	0	0	0	0	1	0	0	0	0	1	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
21	Number of FAA registered public/military airports ⁵ 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
22	Number of FAA registered public/military airports ⁵ 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
23	Number of private airstrips within 10,000 feet of the ROW centerline	2	2	0	0	0	2	3	0	0	0	0	1	0	0
24	Number of heliports within 5,000 feet of the ROW centerline	1	0	1	0	0	1	0	0	0	0	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
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	0	1	2	0	0	0	0	0	0	0	0	0	1
Aesthetics															
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	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
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	0.00	0.49	0.07	0.00	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.74	0.41
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
Ecology															
30	Length of ROW across upland woodlands/brushlands	0.92	0.51	1.60	0.07	0.16	1.98	1.42	1.05	0.88	0.19	0.61	0.88	0.51	0.77
31	Length of ROW across bottomland/riparian woodlands	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
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
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
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	4.5	0.0	8.7	0.0	0.0	21.5	2.2	4.4	0.7	0.6	5.7	3.6	0.0	0.1
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	0.03	0.00	0.00
36	Number of stream crossings	1	0	5	0	0	2	4	2	2	0	1	2	1	0
37	Number of river crossings	0	0	0	0	1	0	0	0	0	1	0	0	0	0
38	Length of ROW parallel (within 100 feet) to streams or rivers	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	0.12
39	Length of ROW across 100-year floodplains	0.00	0.00	0.21	0.00	0.05	0.00	0.44	0.04	0.00	0.07	0.00	0.17	0.00	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
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	4	0	0	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
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
44	Length of ROW across areas of high archeological/historic site potential	1.1	0.5	0.9	0.0	0.2	1.4	1.3	0.6	0.3	0.4	0.5	1.1	0.7	0.3

Notes: ¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments														
Land Use		R3	R4	S	S1	S2	S4	T	T1	T2	T3	T4	U	U1	U2	
1	Length of primary alternative route (miles)	0.36	1.11	1.48	0.53	0.93	2.63	0.41	1.52	1.45	0.02	0.10	1.69	1.33	0.49	
2	Number of habitable structures ¹ within 300 feet of ROW centerline	1	18	1	2	0	33	0	0	2	0	0	5	0	0	
3	Number of habitable structures ¹ 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	
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	
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	
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.36	0.88	0.00	0.30	0.00	1.38	0.00	0.17	0.51	0.02	0.00	0.74	0.00	0.35	
7	Length of ROW parallel and adjacent to apparent property lines ²	0.00	0.00	1.35	0.00	0.31	0.95	0.41	1.22	0.83	0.00	0.00	0.62	1.33	0.00	
8	Sum of evaluation criteria 4, 5, 6, and 7	0.36	0.88	1.35	0.30	0.31	2.33	0.41	1.39	1.34	0.02	0.00	1.36	1.33	0.35	
9	Percent of evaluation criteria 4, 5, 6, and 7	100%	79%	91%	57%	33%	89%	100%	91%	92%	100%	0%	80%	100%	71%	
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	Length of ROW across pasture/rangeland	0.36	0.39	0.15	0.00	0.00	0.53	0.36	0.98	0.67	0.02	0.05	0.70	1.13	0.00	
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	
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	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 ⁴	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	
18	Number of IH, US and state highway crossings	0	0	0	0	0	2	0	0	0	0	0	1	0	0	
19	Number of farm-to-market (FM) road crossings	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	
21	Number of FAA registered public/military airports ⁵ 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	
22	Number of FAA registered public/military airports ⁵ 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	
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	2	0	0	1	2	0	0	0	0	2	0	0	
24	Number of heliports within 5,000 feet of the ROW centerline	0	0	0	0	0	0	0	0	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	
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	
Aesthetics																
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.36	0.53	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00	0.10	1.52	0.00	0.00	
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.45	0.00	0.02	0.00	0.00	0.00	0.00	
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.07	0.00	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	0.04	0.53	1.15	0.44	0.89	1.59	0.23	0.54	1.11	0.00	0.04	0.93	1.33	0.49	
31	Length of ROW across bottomland/riparian woodlands	0.00	0.01	0.16	0.03	0.03	0.04	0.00	0.04	0.00	0.00	0.00	0.02	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	
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	
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	0.0	0.0	6.5	0.3	5.5	4.1	0.0	0.3	0.5	0.0	0.0	12.5	0.0	0.6	
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	0.00	0.00	
36	Number of stream crossings	0	1	2	3	2	3	0	2	0	0	0	2	0	0	
37	Number of river crossings	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	0.15	0.00	0.02	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.00	
39	Length of ROW across 100-year floodplains	0.00	0.13	0.42	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.11	0.00	0.00	
Cultural Resources																
40	Number of recorded historic or prehistoric sites crossed by ROW	0	0	0	0	0	3	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	1	0	0	0	1	0	0	0	0	0	2	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	
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	
44	Length of ROW across areas of high archeological/historic site potential	0.4	1.1	0.9	0.1	0.6	2.0	0.4	1.1	0.8	0.0	0.0	1.1	0.0	0.0	

¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

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Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments														
Land Use		U3	V	V1	V2	V3	W	W1	W2	W3	X	X1	X2	X3	Y	
1	Length of primary alternative route (miles)	0.42	1.11	1.05	1.04	0.96	0.15	1.31	1.08	1.11	0.12	1.59	1.02	0.06	1.74	
2	Number of habitable structures ¹ within 300 feet of ROW centerline	0	7	1	2	0	2	1	1	2	0	1	0	1	0	
3	Number of habitable structures ¹ 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	
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	0.06	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	
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	0.00	0.33	1.05	0.00	0.00	0.00	0.00	0.81	0.06	0.00	0.00	0.00	0.00	1.50	
7	Length of ROW parallel and adjacent to apparent property lines ²	0.00	0.06	0.00	1.04	0.94	0.00	1.19	0.00	0.89	0.00	1.27	1.01	0.00	0.00	
8	Sum of evaluation criteria 4, 5, 6, and 7	0.00	0.39	1.05	1.04	0.94	0.00	1.19	0.81	0.95	0.00	1.27	1.01	0.06	1.50	
9	Percent of evaluation criteria 4, 5, 6, and 7	0%	35%	100%	100%	98%	0%	91%	75%	86%	0%	80%	99%	100%	86%	
10	Length of ROW across parks/recreational areas ³	0.00	0.00	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 ³ within 1,000 feet of ROW centerline	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	
13	Length of ROW across pasture/rangeland	0.08	0.02	0.47	0.55	0.17	0.00	0.83	1.06	0.50	0.08	0.00	0.59	0.00	1.25	
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	
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	
16	Number of pipeline crossings ⁴	0	0	1	0	0	0	1	0	1	0	1	0	0	0	
17	Number of transmission line crossings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	Number of IH, US and state highway crossings	0	1	0	0	0	0	0	0	0	1	0	0	0	0	
19	Number of farm-to-market (FM) road crossings	0	0	0	0	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	
21	Number of FAA registered public/military airports ⁵ 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	
22	Number of FAA registered public/military airports ⁵ 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	
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	1	0	0	2	0	0	0	0	0	0	0	1	0	
24	Number of heliports within 5,000 feet of the ROW centerline	1	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	
26	Number of FM radio transmitters, microwave towers, and other electronic installations within 2,000 feet of ROW centerline	0	1	0	0	0	0	0	2	0	0	0	0	0	0	
Aesthetics																
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.00	0.97	0.00	0.00	0.04	0.15	0.00	0.00	0.05	0.12	0.00	0.00	0.06	1.74	
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.00	0.00	1.05	0.00	0.00	0.00	0.49	1.08	0.59	0.00	0.53	0.48	0.00	0.00	
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	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	0.31	0.85	0.95	0.60	0.70	0.15	0.93	0.24	0.67	0.02	1.49	0.63	0.02	1.45	
31	Length of ROW across bottomland/riparian woodlands	0.01	0.20	0.02	0.01	0.09	0.00	0.11	0.00	0.03	0.00	0.09	0.02	0.00	0.04	
32	Length of ROW across NWI mapped wetlands	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	
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	
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	2.5	10.1	7.7	0.0	3.6	0.0	0.2	0.0	3.9	0.0	4.8	5.3	0.1	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	
36	Number of stream crossings	2	2	1	0	1	0	2	0	1	0	1	2	0	1	
37	Number of river crossings	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	0.10	0.00	0.00	0.00	
39	Length of ROW across 100-year floodplains	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	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	
41	Number of additional recorded historic or prehistoric sites within 1,000 feet of ROW centerline	0	2	0	1	0	1	0	0	0	1	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	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	
44	Length of ROW across areas of high archeological/historic site potential	0.4	1.1	0.3	0.6	0.5	0.2	0.9	0.5	0.9	0.1	0.5	0.6	0.1	0.5	

¹Single-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.

²Apparent 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.

³Defined 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.

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

⁵As 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.

⁶One-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.

⁷One-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.

Table 5-2
Land Use and Environmental Data for Primary Route Evaluation
Primary Alternative Route Segments

Evaluation Criteria		Primary Alternative Route Segments						
Land Use		Y1	Y2	Y3	Z	Z1	Z2	Z3
1	Length of primary alternative route (miles)	1.06	0.04	1.43	1.26	1.06	1.04	0.84
2	Number of habitable structures ¹ within 300 feet of ROW centerline	1	0	0	0	0	0	2
3	Number of habitable structures ¹ currently located within 300 feet of an existing transmission line ROW centerline	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
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
6	Length of ROW parallel and adjacent to other existing ROW (roadways)	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 ²	0.00	0.02	0.49	0.00	0.82	0.87	0.56
8	Sum of evaluation criteria 4, 5, 6, and 7	1.02	0.02	0.49	1.26	0.82	0.87	0.56
9	Percent of evaluation criteria 4, 5, 6, and 7	96%	50%	34%	100%	77%	84%	67%
10	Length of ROW across parks/recreational areas ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Number of additional parks/recreational areas ³ within 1,000 feet of ROW centerline	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
13	Length of ROW across pasture/rangeland	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
15	Length of ROW parallel and adjacent to pipelines ⁴	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Number of pipeline crossings ⁴	0	0	0	0	0	0	0
17	Number of transmission line crossings	0	0	0	0	0	0	0
18	Number of IH, US and state highway crossings	0	0	0	0	0	0	1
19	Number of farm-to-market (FM) road crossings	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
21	Number of FAA registered public/military airports ⁵ 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
22	Number of FAA registered public/military airports ⁵ 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
23	Number of private airstrips within 10,000 feet of the ROW centerline	0	0	1	1	1	0	3
24	Number of heliports within 5,000 feet of the ROW centerline	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
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
Aesthetics								
27	Estimated length of ROW within foreground visual zone ⁶ of IH, US and state highways	0.00	0.00	0.05	0.79	0.00	0.00	0.84
28	Estimated length of ROW within foreground visual zone ⁶ of FM roads	0.51	0.04	0.00	0.00	0.00	0.00	0.00
29	Estimated length of ROW within foreground visual zone ^{6/7} of parks/recreational areas ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ecology								
30	Length of ROW across upland woodlands/brushlands	0.69	0.00	1.15	0.33	0.97	0.60	0.70
31	Length of ROW across bottomland/riparian woodlands	0.00	0.00	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
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
34	Area of ROW across golden-cheeked warbler modeled habitat where three models agree (acres)	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	0.02
36	Number of stream crossings	0	0	0	0	1	2	1
37	Number of river crossings	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	0.04	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	0.18
Cultural Resources								
40	Number of recorded historic or prehistoric sites crossed by ROW	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	0	0	1
42	Number of National Register-listed or determined eligible sites crossed by ROW	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
44	Length of ROW across areas of high archeological/historic site potential	0.3	0.0	0.7	0.2	0.3	0.6	0.6

Notes: ¹Single-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.

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