

Routing Criteria

Theftford to Western 345 kV Transmission Line

		Preferred Route - C (GREEN)	Alternative Route - D (MAGENTA)	Alternative Route - E (YELLOW)
Proximity to Occupied Residences	Number less than 300 ft.	6	10	0
	Number over 300 ft. & less than 500 ft.	3	7	4
	Number over 500 ft. & less than 0.25 mile	10	7	4
Proximity to Towns/Villages	Number less than or equal to 0.25 mile	0	0	0
	Number over 0.25 mile & less than or equal to 0.5 mile	0	0	0
	Number over 0.5 mile & less than 1 mile	0	0	0
Proximity to Other Amenities	Number of churches within 500 ft.	0	0	0
	Number of schools within 0.25 mile	0	0	0
	Number of cemeteries within 500 ft.	0	0	0
	Public use airports (landing strip > 3200 ft.) within 1.5 miles	0	0	0
	Public use airports (landing strip < 3200 ft.) within 1.25 miles	0	0	0
	Private FAA registered airports within 1.25 miles	0	1	0
	Private non-FAA registered airports within 0.5 mile	0	0	0
Land Use Criteria	Wellheads within ROW of apparent centerline	4	22	10
	Number of other buildings within ROW	1	3	2
	Proximity to platted development	0	0	0
	Length adjacent to platted development (ft.)	0	0	0
	Irrigated cropland crossed (acres in ROW)	61	9	43
	Pasture/rangeland crossed (acres in ROW)	2126	2306	2393
	Dry land crops crossed (acres in ROW)	334	131	324
	Number of center pivot conflicts	1	0	0
Other Land Use	Cultivated field bisections	8	3	12
	Number of parcels crossed by ROW	374	230	287
Environmental Criteria	Number of land owners affected by ROW	151	87	113
	Threatened and endangered plant habitat within ROW (acres)	6.7	124.8	175.4
	Wetland/jurisdictional water crossed (acres)	76	53	124
	Recorded conservation easements crossed (ft.)	0	0	0
	Trees within ROW (acres)	45.3	36.8	32.2
	Shelterbelt within ROW (acres)	37	13	21
	Number of known cultural resources within 500 ft. (recorded only)	3	2	0
	Number of river crossings	2	2	2
	Number of named stream crossings	5	3	1
	Preliminary whooping crane stop over habitat (acres within 1 mile of route centerline)	5889	3897	6056
	Tern and plover habitat (acres within 0.25 mile of route centerline)	0	0	0
	Sandhills Scenic Byway crossed (#)	0	0	0
Engineering and Construction	Sandhills Scenic Byway paralleled (miles)	0	0	0
	Distance of floodplain crossing (ft.)	*	*	*
	Miles of Sandhills crossed	93.7	97.4	92.7
	Number of heavy angles (greater than 30 degrees)	10	8	14
	Length (miles)	123.2	116.5	124.7
	Cost (millions of dollars)	\$184,000,000	\$181,000,000	\$193,000,000
	Subtransmission line (69 and 34.5 kV) relocation (ft.)	0	5400	2890
	Number of railroads crossed	0	0	0
	Length of railroads paralleled (ft.)	0	0	0
	Number state highways crossed	2	3	2
	Number US highways crossed	2	2	2
	Interstate highway crossing	0	0	0
	Number major pipelines crossed	*	*	*
	Length of major pipelines paralleled (within ROW)	*	*	*
	Number of existing 230 kV transmission line crossings	0	0	0
	Number of existing 115 kV transmission line crossings	1	1	1
	Number of existing subtransmission line (69 or 34.5 kV) crossings	1	0	1
	Length of existing transmission parallel <500' (ft.)	0	0	0
Number of communication towers within 0.25 mile	0	0	0	
Existing access for construction and operation (miles)	45.1	23.6	21.2	

* Accurate data not available at this time



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Routing Criteria

Gerald Gentleman Station to Thedford

		Preferred Route - A (GREEN)	Alternative Route - B (ORANGE)
Proximity to Occupied Residences	Number less than 300 ft.	1	3
	Number over 300 ft. & less than 500 ft.	6	3
	Number over 500 ft. & less than 0.25 mile	24	11
Proximity to Towns/Villages	Number less than or equal to 0.25 mile	2	1
	Number over 0.25 mile & less than or equal to 0.5 mile	0	0
	Number over 0.5 mile & less than 1 mile	0	1
Proximity to Other Amenities	Number of churches within 500 ft.	0	1
	Number of schools within 0.25 mile	0	0
	Number of cemeteries within 500 ft.	0	0
	Public use airports (landing strip > 3200 ft.) within 1.5 miles	0	0
	Public use airports (landing strip < 3200 ft.) within 1.25 miles	0	0
	Private FAA registered airports within 1.25 miles	1	0
	Private non-FAA registered airports within 0.5 mile	1	0
Land Use Criteria	Wellheads within ROW of apparent centerline	9	9
	Number of other buildings within ROW	5	4
	Proximity to platted development	0	0
	Length adjacent to platted development (ft.)	0	0
	Irrigated cropland crossed (acres in ROW)	59	53
	Pasture/rangeland crossed (acres in ROW)	1388	1851
	Dry land crops crossed (acres in ROW)	185	111
	Number of center pivot conflicts	1	1
Other Land Use	Cultivated field bisections	2	2
	Number of parcels crossed by ROW	292	305
Environmental Criteria	Number of land owners affected by ROW	100	109
	Threatened and endangered plant habitat within ROW (acres)	0	0
	Wetland/jurisdictional water crossed (acres)	32	21
	Recorded conservation easements crossed (ft.)	1950	1950
	Trees within ROW (acres)	21.3	22.7
	Shelterbelt within ROW (acres)	7	6
	Number of known cultural resources within 500 ft. (recorded only)	5	3
	Number of river crossings	5	4
	Number of named stream crossings	1	1
	Preliminary whooping crane stop over habitat (acres within 1 mile of route centerline)	1498	1107
	Tern and plover habitat (acres within 0.25 mile of route centerline)	40.5	40.5
	Sandhills Scenic Byway crossed (#)	2	2
	Sandhills Scenic Byway paralleled (miles)	0	0
Engineering and Construction	Distance of floodplain crossing (ft.)	*	*
	Miles of Sandhills crossed	83.7	98.0
	Number of heavy angles (greater than 30 degrees)	16	14
	Length (miles)	97.7	104.6
	Cost (millions of dollars)	\$144,000,000	\$157,000,000
	Subtransmission line (69 and 34.5 kV) relocation (ft.)	0	0
	Number of railroads crossed	11	11
	Length of railroads paralleled (ft.)	0	0
	Number state highways crossed	4	4
	Number US highways crossed	5	2
	Interstate highway crossing	1	1
	Number major pipelines crossed	*	*
	Length of major pipelines paralleled (within ROW)	*	*
	Number of existing 230 kV transmission line crossings	2	2
	Number of existing 115 kV transmission line crossings	3	1
	Number of existing subtransmission line (69 or 34.5 kV) crossings	7	3
	Length of existing transmission parallel <500' (ft.)	0	0
Number of communication towers within 0.25 mile	3	0	
Existing access for construction and operation (miles)	57.4	47.6	

* Accurate data not available at this time



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