

# Routing Criteria

## Theford to WESTERN 345 kV Transmission Line

		Preferred Route - C (GREEN)	Alternative Route - D (MAGENTA)	Alternative Route - E (YELLOW)	PROPOSED ROUTE
Proximity to Occupied Residences	Number less than 300 ft.	6	10	0	2
	Number over 300 ft. & less than 500 ft.	3	7	4	3
	Number over 500 ft. & less than 0.25 mile	11	6	4	7
Proximity to Towns/Villages	Number less than or equal to 0.25 mile	0	0	0	0
	Number over 0.25 mile & less than or equal to 0.5 mile	0	0	0	0
	Number over 0.5 mile & less than 1 mile	0	0	0	0
Proximity to Other Amenities	Number of churches within 500 ft.	0	0	0	1
	Number of schools within 0.25 mile	0	0	0	0
	Number of cemeteries within 500 ft.	0	0	0	0
	Public use airports (landing strip > 3200 ft.) within 1.5 miles	0	0	0	0
	Public use airports (landing strip < 3200 ft.) within 1.25 miles	0	0	0	0
	Private FAA registered airports within 1.25 miles	0	1	0	0
	Private non-FAA registered airports within 0.5 mile	0	0	0	0
Land Use Criteria	Wellheads within ROW of apparent centerline	6	24	12	8
	Number of other buildings within ROW	1	3	2	2
	Proximity to platted development	0	0	0	0
	Length adjacent to platted development (ft.)	0	0	0	0
	Irrigated cropland crossed (acres in ROW)	60.9	9	42.7	60.3
	Pasture/rangeland crossed (acres in ROW)	2,126.1	2,305.6	2,398.6	2,284.1
	Dry land crops crossed (acres in ROW)	333.7	131.2	317.5	287.2
	Number of center pivot conflicts	1	1	1	1
	Cultivated field bisections	8	3	11	8
Other Land Use	Number of parcels crossed by ROW	375	230	287	307
	Number of land owners affected by ROW	145	87	107	123
Environmental Criteria	Threatened and endangered plant habitat within ROW (acres)	6.7	124.8	175.4	176.2
	Wetland/jurisdictional water crossed (acres)	76.0	53.0	123.5	85.1
	Recorded Conservation easements crossed (ft.)	0	0	0	0
	Trees within ROW (acres)	15.5	35.2	19.5	17.5
	Shelterbelt within ROW (acres)	67.4	14.1	35.6	38.3
	Number of known cultural resources within 500 ft. (recorded only)	3	2	0	4
	Number of river crossings	2	2	2	2
	Number of named stream crossings	5	4	2	5
	Preliminary whooping crane stop over habitat (acres within 1 mile of route centerline)	5,677.5	3,801.8	5,884.9	5,853.8
	Tern and plover habitat (acres within 0.25 mile of route centerline)	0	0	0	0
	Sandhills Scenic Byway crossed (#)	0	0	0	0
	Sandhills Scenic Byway paralleled (miles)	0	0	0	0
	Engineering and Construction	Distance of floodplain crossing (ft.)	*	*	*
Miles of Sandhills Crossed		93.7	97.4	92.7	93.7
Number of heavy angles (greater than 30 degrees)		10	8	14	20
Length (miles)		123.2	116.5	124.7	124.6
Cost (millions of dollars)		\$185.1	\$182.2	\$194.6	\$190.2
Subtransmission line (69 and 34.5 kV) relocation (ft.)		0	5,400	2,890	0
Number of railroads crossed		0	0	0	0
Length of railroads paralleled (ft.)		0	0	0	0
Number state highways crossed		2	7	2	2
Number US highways crossed		2	2	2	2
Interstate highway crossing		0	0	0	0
Number major pipelines crossed		*	*	*	*
Length of major pipelines paralleled (within ROW)		*	*	*	*
Number of existing 345 kV transmission line crossings		0	0	0	0
Number of existing 230 kV transmission line crossings		0	0	0	0
Number of existing 115 kV transmission line crossings		1	1	1	1
Number of existing Subtransmission line (69 and 34.5 kV) crossings		1	6	1	1
Length of existing transmission parallel <500' (ft.)		0	0	0	0
Number of communication towers within 0.25 mile		0	0	0	0
Existing access for construction and operation (miles)		45.2	23.6	21.2	34.4

\* Accurate Data not available at this time

