

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Total Length (mi)	Total acres 0- 75 ft	Total acres 0-500 ft	Human Settlement - Aesthetics									
				Commercial & Non-Residential Structures					Residences (Houses)				
				0-75 ft Count	75-250 ft Count	250-500 ft Count	500-1,600 ft Count	Total Count	0-75 ft Count	75-250 ft Count	250-500 ft Count	500-1,600 ft Count	Total Count
Segment 1 North	42.1	766.5	5,128.4	4.0	67.0	108.0	186.0	365.0	-	28.0	45.0	81.0	154.0
Segment 1 South	47.7	866.4	5,811.7	13.0	144.0	341.0	322.0	820.0	11.0	68.0	86.0	158.0	323.0
Route Segment 1	2.8	50.4	349.0	3.0	11.0	25.0	27.0	66.0	-	4.0	3.0	9.0	16.0
Route Segment 1 Equivalent	2.3	42.4	295.1	-	1.0	6.0	24.0	31.0	2.0	4.0	1.0	9.0	16.0
Route Segment 5	1.3	24.0	174.0	-	1.0	2.0	16.0	19.0	-	-	1.0	3.0	4.0
Route Segment 5 Equivalent	1.2	21.6	157.7	-	1.0	12.0	20.0	33.0	-	3.0	16.0	13.0	32.0
Route Segment 6	10.2	67.3	464.0	2.0	1.0	11.0	42.0	56.0	1.0	-	2.0	18.0	21.0
Route Segment 6 Equivalent	10.7	75.3	516.5	-	20.0	28.0	55.0	103.0	2.0	8.0	11.0	17.0	38.0
Route Segment 7	2.0	36.6	258.0	-	-	-	-	13.0	13.0	-	-	-	3.0
Route Segment 7 Equivalent	2.0	36.3	256.6	2.0	11.0	29.0	9.0	51.0	-	5.0	1.0	1.0	7.0
Route Segment 9	0.9	16.7	126.7	-	-	8.0	31.0	39.0	-	-	-	3.0	3.0
Route Segment 9 Equivalent	0.9	16.7	126.4	-	1.0	9.0	29.0	39.0	-	-	-	3.0	3.0
Route Segment 10	2.9	53.3	369.0	-	1.0	2.0	7.0	10.0	-	1.0	2.0	22.0	25.0
Route Segment 10 Equivalent	2.1	38.7	272.8	-	13.0	27.0	1.0	41.0	1.0	8.0	3.0	19.0	31.0
Route Segment 11	3.6	66.5	454.7	-	3.0	11.0	32.0	46.0	-	2.0	3.0	21.0	26.0
Route Segment 11 Equivalent	2.7	48.9	340.9	-	13.0	36.0	23.0	72.0	1.0	9.0	2.0	21.0	33.0
Route Segment 18	1.6	28.8	207.1	1.0	-	-	41.0	42.0	-	-	-	6.0	6.0
Route Segment 18 Equivalent	1.6	28.8	207.3	-	1.0	10.0	32.0	43.0	-	-	1.0	5.0	6.0
Alignment Alternative 2	1.7	30.6	219.3	-	-	1.0	4.0	5.0	-	-	-	2.0	2.0
Alignment Alternative 2 Equivalent	1.7	30.7	219.3	-	1.0	2.0	2.0	5.0	-	-	-	2.0	2.0
Alignment Alternative 8	0.2	4.2	43.0	-	-	2.0	6.0	8.0	-	1.0	1.0	3.0	5.0
Alignment Alternative 8 Equivalent	0.2	4.2	43.3	-	-	3.0	5.0	8.0	-	1.0	1.0	3.0	5.0
Segment 2 North	41.2	748.5	4,989.0	3.0	78.0	251.0	148.0	480.0	1.0	46.0	56.0	98.0	201.0
Segment 2 South	38.1	613.1	4,097.2	2.0	28.0	63.0	75.0	168.0	-	12.0	23.0	32.0	67.0
Route Segment 17 Hwy 14 Option	95.2	1,729.0	12,908.4	9.0	53.0	295.0	412.0	769.0	4.0	19.0	172.0	59.0	254.0
Segment 3	43.4	788.7	5,266.8	-	20.0	40.0	65.0	125.0	-	6.0	17.0	36.0	59.0

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Human Settlement - Aesthetics													
	Right-of-Way Paralleling by Type													
	Transmission Line		Road		Railroad		Transmission Line, Road, Railroad, or Pipeline		Field, Parcel, or Section Lines		Total Paralleling		Total Length not Paralleling Existing Infrastructure or Division Lines	
	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length
	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent
Segment 1 North	40.5	96.1	7.3	17.4	2.9	6.9	42.1	100.0	31.1	73.7	42.1	100.0	-	-
Segment 1 South	32.9	69.0	30.3	63.5	0.0	0.0	40.9	85.9	41.7	87.6	45.2	94.9	2.4	5.1
Route Segment 1	0.3	10.0	2.5	89.9	-	-	2.7	99.8	2.7	98.5	2.8	100.0	-	-
Route Segment 1 Equivalent	1.1	46.5	2.1	88.8	-	-	2.3	100.0	2.1	88.8	2.3	100.0	-	-
Route Segment 5	-	-	0.5	35.1	-	-	0.5	35.1	1.3	100.0	1.3	100.0	-	-
Route Segment 5 Equivalent	0.9	73.1	0.9	73.1	-	-	0.9	73.1	1.0	87.9	1.0	87.9	0.1	12.1
Route Segment 6	0.0	0.0	0.0	0.0	-	-	0.0	0.0	3.7	35.9	3.7	35.9	-	-
Route Segment 6 Equivalent	3.5	32.4	3.3	31.2	-	-	3.5	32.4	3.3	31.2	3.5	32.4	0.7	6.2
Route Segment 7	-	-	-	-	-	-	-	-	2.0	100.0	2.0	100.0	-	-
Route Segment 7 Equivalent	-	-	2.0	100.0	-	-	2.0	100.0	2.0	100.0	2.0	100.0	-	-
Route Segment 9	-	-	-	-	-	-	-	-	-	-	-	-	0.9	100.0
Route Segment 9 Equivalent	0.9	100.0	-	-	-	-	0.9	100.0	0.1	15.3	0.9	100.0	-	-
Route Segment 10	1.1	36.9	0.0	0.3	2.1	72.6	2.1	73.0	2.9	98.3	2.9	98.3	0.0	1.7
Route Segment 10 Equivalent	2.0	95.9	1.5	72.5	0.0	0.1	2.0	95.9	1.9	90.3	2.0	95.9	0.1	4.1
Route Segment 11	1.1	29.4	1.5	40.5	2.1	58.2	3.6	98.6	3.6	98.6	3.6	98.6	0.0	1.4
Route Segment 11 Equivalent	2.6	96.7	1.8	68.5	0.0	0.1	2.6	96.8	2.2	82.5	2.6	96.8	0.1	3.2
Route Segment 18	0.0	0.0	-	-	-	-	0.0	0.0	0.2	14.6	0.2	14.6	1.3	85.4
Route Segment 18 Equivalent	1.6	100.0	-	-	-	-	1.6	100.0	0.1	8.7	1.6	100.0	-	-
Alignment Alternative 2	1.0	62.7	0.4	24.3	1.3	79.7	1.7	100.0	1.7	100.0	1.7	100.0	-	-
Alignment Alternative 2 Equivalent	1.1	67.0	-	-	1.7	100.0	1.7	100.0	1.5	89.0	1.7	100.0	-	-
Alignment Alternative 8	0.2	100.0	-	-	-	-	0.2	100.0	-	-	0.2	100.0	-	-
Alignment Alternative 8 Equivalent	0.2	100.0	-	-	-	-	0.2	100.0	-	-	0.2	100.0	-	-
Segment 2 North	28.4	69.0	24.8	60.3	0.0	0.0	32.9	80.0	37.4	90.9	38.2	92.8	3.0	7.2
Segment 2 South	5.7	14.9	5.4	14.2	1.1	2.8	10.1	26.5	29.4	77.3	29.8	78.2	3.9	10.3
Route Segment 17 Hwy 14 Option	21.2	22.3	67.3	70.7	8.2	8.6	81.5	85.6	81.4	85.5	89.1	93.6	6.0	6.4
Segment 3	43.4	100.0	3.5	8.0	-	-	43.4	100.0	27.0	62.3	43.4	100.0	0.0	0.0

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Human Settlement - Recreation									
	MN Department of Natural Resources State Water Trails		Scenic Byways			Snowmobile Trails			Wild and Scenic Rivers	
	Crossing	0-500 ft	Crossing	0-75 ft	0-500 ft	Crossing	0-75 ft	0-500 ft	Crossing	0-75 ft
	Count	Length (ft)	Count	Length (ft)	Length (ft)	Count	Length (ft)	Length (ft)	Count	Length (ft)
Segment 1 North	5.0	1,571.3	2.0	338.7	2,247.8	9.0	12,139.6	30,798.9	2.0	625.5
Segment 1 South	4.0	309.0	2.0	308.5	2,051.9	10.0	16,765.3	38,925.5	-	-
Route Segment 1	-	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	1,303.7	3,228.6	-	-
Route Segment 5	-	-	-	-	-	-	-	5,443.9	-	-
Route Segment 5 Equivalent	-	-	-	-	-	-	-	982.4	-	-
Route Segment 6	-	-	-	-	-	-	19,049.9	20,745.3	-	-
Route Segment 6 Equivalent	-	-	-	-	-	-	66.7	2,117.3	-	-
Route Segment 7	-	-	-	-	-	-	-	-	-	-
Route Segment 7 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 9	-	-	-	-	-	-	-	-	-	-
Route Segment 9 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 10	-	-	-	-	-	1.0	166.1	1,101.4	-	-
Route Segment 10 Equivalent	-	-	-	-	-	1.0	150.5	1,003.8	-	-
Route Segment 11	-	-	-	-	-	1.0	166.1	1,101.4	-	-
Route Segment 11 Equivalent	-	-	-	-	-	1.0	150.5	1,003.8	-	-
Route Segment 18	-	-	-	-	-	3.0	1,318.9	2,611.5	-	-
Route Segment 18 Equivalent	-	-	-	-	-	1.0	169.0	2,625.2	-	-
Alignment Alternative 2	-	-	-	-	-	1.0	200.6	1,401.1	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	1.0	218.7	1,295.0	-	-
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-
Segment 2 North	1.0	1,055.4	-	-	-	18.0	13,024.7	42,035.2	-	-
Segment 2 South	1.0	1,116.2	-	-	-	6.0	1,106.5	7,204.5	-	-
Route Segment 17 Hwy 14 Option	4.0	10,551.6	2.0	308.5	2,051.7	15.0	4,652.8	53,071.4	-	-
Segment 3	8.0	2,785.1	2.0	312.6	2,101.4	22.0	6,749.6	38,854.2	1.0	156.5

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

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**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Airports / Heliports	Land-based Economies - Agriculture		
		Natural Resource Conservation Service Prime Farmland by Type		
	Private	Total Prime Farmland	Total Prime Farmland	
	Within 1 mi	0-500 ft	0-500 ft	% of Route Width
	Count	Area (ac)	Area (ac)	
Segment 1 North	-	1,229.3	2,530.3	49%
Segment 1 South	-	1,042.8	3,670.8	63%
Route Segment 1	-	3.8	344.9	99%
Route Segment 1 Equivalent	-	19.9	275.1	93%
Route Segment 5	-	4.4	169.5	97%
Route Segment 5 Equivalent	-	2.2	151.2	96%
Route Segment 6	-	149.1	219.1	47%
Route Segment 6 Equivalent	-	158.1	240.7	47%
Route Segment 7	-	16.8	204.1	79%
Route Segment 7 Equivalent	-	11.9	229.9	90%
Route Segment 9	-	5.4	108.4	86%
Route Segment 9 Equivalent	-	8.6	94.5	75%
Route Segment 10	-	46.4	201.6	55%
Route Segment 10 Equivalent	-	17.1	233.0	85%
Route Segment 11	-	40.1	278.5	61%
Route Segment 11 Equivalent	-	20.0	297.5	87%
Route Segment 18	-	34.1	139.6	67%
Route Segment 18 Equivalent	-	21.3	110.3	53%
Alignment Alternative 2	-	9.2	208.6	95%
Alignment Alternative 2 Equivalent	-	9.3	209.1	95%
Alignment Alternative 8	-	1.5	24.7	57%
Alignment Alternative 8 Equivalent	-	1.3	24.0	55%
Segment 2 North	-	632.4	3,885.7	78%
Segment 2 South	-	348.6	3,389.0	83%
Route Segment 17 Hwy 14 Option	2.0	1,160.7	10,759.9	83%
Segment 3	-	1,471.6	2,245.5	43%

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Archaeological and Historic Resources																										
	Cultural Resources - Archaeological Resources												Cultural Resources - Historical Resources														
	0-75		75-250		250-500		500-1,600		1,600-5,280		0-75 (ft)		75-250 (ft)		250-500 (ft)		500-1,600 (ft)		1,600-5,280 (ft)		0-75		75-500		500-5,280		Total
	Count	Count	Count	Count	Count	Count	Area (sq ft)	Count	Count	Count	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Count	Count	Count	Count	Count	Count							
Segment 1 North	3.0	-	3.0	-	54.0	21.0	-	140.6	-	1,715.1	16.0	9.0	102.0	127.0													
Segment 1 South	4.0	-	4.0	-	35.0	10.6	-	79.1	-	921.1	17.0	23.0	162.0	202.0													
Route Segment 1	1.0	-	1.0	-	5.0	0.6	-	0.7	-	12.1	2.0	-	10.0	12.0													
Route Segment 1 Equivalent	-	-	-	-	4.0	-	-	-	-	10.2	2.0	2.0	11.0	15.0													
Route Segment 5	-	-	-	-	2.0	-	-	-	-	1.8	1.0	2.0	18.0	21.0													
Route Segment 5 Equivalent	-	-	-	-	2.0	-	-	-	-	1.8	1.0	1.0	19.0	21.0													
Route Segment 6	1.0	-	1.0	-	6.0	0.2	-	7.3	-	202.8	8.0	1.0	53.0	62.0													
Route Segment 6 Equivalent	1.0	-	1.0	-	6.0	1.5	-	13.9	-	202.8	1.0	2.0	58.0	61.0													
Route Segment 7	-	-	-	-	2.0	-	-	-	-	304.9	-	-	15.0	15.0													
Route Segment 7 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	3.0												
Route Segment 9	-	-	-	-	2.0	-	-	-	-	3.6	-	-	17.0	17.0													
Route Segment 9 Equivalent	-	-	-	-	2.0	-	-	-	-	3.6	-	-	17.0	17.0													
Route Segment 10	-	-	-	-	-	-	-	-	-	-	-	4.0	1.0	9.0	14.0												
Route Segment 10 Equivalent	-	-	-	-	-	-	-	-	-	-	-	4.0	-	10.0	14.0												
Route Segment 11	-	-	-	-	-	-	-	-	-	-	-	4.0	2.0	8.0	14.0												
Route Segment 11 Equivalent	-	-	-	-	-	-	-	-	-	-	-	4.0	-	10.0	14.0												
Route Segment 18	-	-	-	-	2.0	-	-	-	-	3.6	-	-	1.0	17.0	18.0												
Route Segment 18 Equivalent	-	-	-	-	2.0	-	-	-	-	3.6	-	-	3.0	15.0	18.0												
Alignment Alternative 2	-	-	-	-	5.0	-	-	-	-	3.5	2.0	1.0	20.0	23.0													
Alignment Alternative 2 Equivalent	-	-	-	-	4.0	-	-	-	-	2.8	2.0	1.0	21.0	24.0													
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	6.0												
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	6.0												
Segment 2 North	3.0	-	4.0	-	11.0	40.1	-	324.3	-	2,384.2	12.0	8.0	91.0	111.0													
Segment 2 South	-	-	-	-	3.0	-	-	-	-	354.0	6.0	2.0	44.0	52.0													
Route Segment 17 Hwy 14 Option	16.0	-	34.0	-	91.0	62.9	-	436.6	-	2,755.2	26.0	56.0	567.0	649.0													
Segment 3	3.0	-	4.0	-	24.0	0.6	-	5.8	-	86.6	7.0	4.0	98.0	109.0													

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Archaeological and Historic Resources									
	Cultural Resources - Historical Cemeteries									
	0-75 ft	75-250 ft	250-500 ft	500-1,600 ft	1,600-5,280 ft	0-75 (ft)	75-250 (ft)	250-500 (ft)	500-1,600 (ft)	1,600-5,280 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)
Segment 1 North	8.0	-	20.0	-	46.0	22.2	-	152.1	-	1,692.0
Segment 1 South	28.0	-	64.0	-	108.0	49.3	-	306.0	-	2,639.5
Route Segment 1	-	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	3.0	-	-	-	-	43.5
Route Segment 5 Equivalent	1.0	-	2.0	-	3.0	3.0	-	17.4	-	43.5
Route Segment 6	-	-	-	-	8.0	-	-	-	-	497.5
Route Segment 6 Equivalent	-	-	-	-	12.0	-	-	-	-	506.7
Route Segment 7	-	-	-	-	10.0	-	-	-	-	113.0
Route Segment 7 Equivalent	-	-	-	-	6.0	-	-	-	-	32.3
Route Segment 9	-	-	-	-	2.0	-	-	-	-	20.8
Route Segment 9 Equivalent	-	-	-	-	4.0	-	-	-	-	20.8
Route Segment 10	-	-	-	-	5.0	-	-	-	-	35.8
Route Segment 10 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 11	-	-	-	-	4.0	-	-	-	-	35.8
Route Segment 11 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 18	-	-	-	-	4.0	-	-	-	-	20.8
Route Segment 18 Equivalent	-	-	-	-	4.0	-	-	-	-	20.8
Alignment Alternative 2	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-
Segment 2 North	30.0	-	89.0	-	257.0	259.5	-	1,727.6	-	19,443.1
Segment 2 South	22.0	-	71.0	-	222.0	22.6	-	161.7	-	2,679.3
Route Segment 17 Hwy 14 Option	57.0	-	161.0	-	343.0	124.8	-	1,312.8	-	10,083.5
Segment 3	54.0	-	148.0	-	308.0	120.9	-	811.7	-	8,750.2

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

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**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Natural Environment - Public and Designated Lands				Natural Environment - Vegetation									
	DNR Conservation Easements by Type				National Landcover Dataset									
	Federal CREP Easements	State RIM Easements	Forest Legacy	Permanent Wetland Program	Agricultural (cultivated crops; hay and pasture)		Forest (upland and wetland)		Herbaceous (upland and wetland)		Open Water		Developed (low-med-high intensity; open space)	
	0-500	0-500	0-500	0-500	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 1 North	-	0.6	44.4	-	534.9	3,677.3	73.2	549.0	58.6	342.1	2.6	55.3	95.2	491.9
Segment 1 South	-	5.1	-	37.0	458.0	4,010.4	33.1	338.0	48.1	336.4	1.6	43.1	324.6	1,068.4
Route Segment 1	-	-	-	-	20.2	204.5	0.3	4.4	6.5	27.6	-	-	23.3	111.4
Route Segment 1 Equivalent	-	-	-	-	23.0	163.9	-	9.1	2.6	27.0	0.3	4.3	16.4	90.1
Route Segment 5	-	-	-	-	21.2	152.1	0.4	10.0	-	0.7	-	-	2.4	11.2
Route Segment 5 Equivalent	-	-	-	-	13.3	117.7	0.1	2.3	0.2	4.8	-	0.0	7.9	32.8
Route Segment 6	-	-	-	-	48.9	360.6	16.2	58.3	0.9	10.8	0.1	11.3	1.3	19.9
Route Segment 6 Equivalent	-	-	-	-	40.2	384.7	8.5	48.0	-	5.8	-	3.5	26.7	74.4
Route Segment 7	-	-	-	-	35.8	248.8	0.3	3.8	-	0.7	-	-	0.4	4.7
Route Segment 7 Equivalent	-	-	-	-	19.1	211.0	0.0	6.9	-	0.1	-	-	16.7	37.0
Route Segment 9	-	-	-	-	15.9	115.5	0.1	7.4	-	-	-	-	0.8	3.9
Route Segment 9 Equivalent	-	-	-	-	12.6	100.7	3.7	21.7	-	-	-	-	0.4	4.1
Route Segment 10	-	-	-	-	45.1	279.9	0.9	1.3	4.2	21.4	-	-	3.0	62.7
Route Segment 10 Equivalent	-	-	-	-	17.5	222.7	0.4	6.7	0.7	4.9	-	-	20.1	38.5
Route Segment 11	-	-	-	-	53.4	338.4	-	-	4.3	21.2	-	-	8.7	91.4
Route Segment 11 Equivalent	-	-	-	-	24.1	282.1	0.4	6.7	0.7	6.2	-	-	23.7	46.0
Route Segment 18	-	-	-	-	25.6	185.2	1.5	12.3	0.2	0.9	-	-	1.6	8.6
Route Segment 18 Equivalent	-	-	-	-	20.5	150.7	7.2	37.5	-	1.1	0.2	4.7	1.0	13.3
Alignment Alternative 2	-	-	-	-	16.9	167.1	-	-	1.2	4.7	1.6	12.9	10.9	34.7
Alignment Alternative 2 Equivalent	-	-	-	-	22.7	167.9	-	-	1.1	3.8	0.6	11.5	6.4	36.1
Alignment Alternative 8	-	-	-	-	-	9.3	4.0	29.0	-	1.1	-	-	0.2	3.5
Alignment Alternative 8 Equivalent	-	-	-	-	-	9.6	4.0	29.3	-	1.1	-	-	0.2	3.4
Segment 2 North	8.6	-	-	-	489.7	3,993.3	20.3	197.8	38.1	242.3	0.9	2.8	198.9	543.0
Segment 2 South	-	10.0	-	-	499.5	3,533.7	13.7	133.5	38.6	215.7	0.2	3.9	60.6	203.9
Route Segment 17 Hwy 14 Option	3.2	3.0	-	5.6	1,207.9	8,079.1	42.3	545.6	71.0	519.7	2.3	37.6	344.1	3,276.3
Segment 3	-	-	-	-	560.4	3,851.6	99.3	792.1	69.7	377.4	6.5	47.1	51.0	192.6

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Natural Environment - Surface Water									
	National Hydrography Dataset Waterbodies		Public Water Inventory Basins			Impaired Streams	National Hydrography Dataset Watercourses	Trout Streams	Public Water Inventory Streams	
	Crossing	0-500 ft	Crossing	0-75 ft	0-500 ft				Crossing	Crossing
	Count	Area (ac)	Count	Area (ac)	Area (ac)	Crossing	Crossing	Crossing	Crossing	Count
Segment 1 North	4.0	91.4	10.0	18.0	143.0	11.0	34.0	-	16.0	
Segment 1 South	1.0	49.5	5.0	28.0	191.4	7.0	30.0	-	10.0	
Route Segment 1	-	-	-	-	-	-	2.0	-	-	
Route Segment 1 Equivalent	-	-	-	-	-	-	-	-	-	
Route Segment 5	-	-	-	-	-	-	-	-	-	
Route Segment 5 Equivalent	-	-	-	-	-	-	-	-	-	
Route Segment 6	-	14.2	-	0.3	18.4	-	1.0	-	-	
Route Segment 6 Equivalent	-	9.1	-	-	6.6	1.0	2.0	-	2.0	
Route Segment 7	-	-	-	-	-	1.0	1.0	-	1.0	
Route Segment 7 Equivalent	-	-	-	-	-	1.0	1.0	-	1.0	
Route Segment 9	-	-	-	-	-	-	1.0	-	-	
Route Segment 9 Equivalent	-	-	-	-	-	-	1.0	-	-	
Route Segment 10	-	5.8	-	-	-	-	2.0	-	1.0	
Route Segment 10 Equivalent	-	-	-	-	-	-	2.0	-	1.0	
Route Segment 11	-	5.8	-	-	-	-	2.0	-	-	
Route Segment 11 Equivalent	-	-	-	-	-	-	3.0	-	1.0	
Route Segment 18	-	-	-	-	-	-	1.0	-	-	
Route Segment 18 Equivalent	-	4.4	-	-	3.4	-	1.0	-	-	
Alignment Alternative 2	-	-	-	-	-	-	-	-	-	
Alignment Alternative 2 Equivalent	-	-	-	-	-	-	-	-	-	
Alignment Alternative 8	-	-	-	-	-	3.0	3.0	-	3.0	
Alignment Alternative 8 Equivalent	-	-	-	-	-	1.0	1.0	-	1.0	
Segment 2 North	-	1.4	-	-	-	4.0	50.0	-	16.0	
Segment 2 South	-	1.5	3.0	3.6	19.4	1.0	42.0	-	7.0	
Route Segment 17 Hwy 14 Option	4.0	19.0	1.0	0.4	45.5	6.0	62.0	1.0	9.0	
Segment 3	3.0	31.4	2.0	5.6	43.3	2.0	77.0	-	8.0	

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	National Wetland Inventory Wetlands								MN Department of Natural Resources Lakes of Biological Significance		MN Department of Natural Resources Native Plant Communities				MN Department of Natural Resources Site of Biodiversity	
	Forested		Non Forested		Total		Crossings >1,000 ft	Crossings								
	Crossings >1,000 ft		0-75 ft	0-500 ft	0-75 ft	0-500 ft	0-75 ft	0-500 ft	Count	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)		
	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Count	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 1 North	7.0	9.2	80.8	100.2	612.1	109.3	692.9	1.0	1.0	2.0	23.5	190.8	40.8	352.5		
Segment 1 South	6.0	11.4	78.8	79.6	563.9	91.1	642.7	1.0	1.0	1.0	7.2	69.0	10.7	120.3		
Route Segment 1	-	1.3	8.1	5.7	21.0	6.9	29.1	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	0.5	8.2	3.1	20.6	3.6	28.8	-	-	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	3.7	-	3.7	-	-	-	-	-	-	-	-	-
Route Segment 5 Equivalent	-	-	-	-	7.7	-	7.7	-	-	-	-	-	-	-	-	-
Route Segment 6	-	3.8	15.8	3.6	57.0	7.4	72.9	-	-	-	-	-	-	-	-	-
Route Segment 6 Equivalent	-	0.8	4.3	1.9	22.4	2.7	26.8	-	-	-	-	-	1.7	-	2.0	
Route Segment 7	-	-	-	-	1.6	-	1.6	-	-	-	-	-	-	-	-	-
Route Segment 7 Equivalent	-	-	-	-	0.1	-	0.1	-	-	-	-	-	-	-	-	-
Route Segment 9	-	-	-	-	0.8	-	0.8	-	-	-	-	-	-	-	-	-
Route Segment 9 Equivalent	-	-	-	-	0.8	-	0.8	-	-	-	-	-	-	-	-	-
Route Segment 10	-	-	-	-	2.2	28.1	2.2	28.1	-	-	-	-	-	-	-	-
Route Segment 10 Equivalent	-	-	-	0.7	-	4.0	-	4.7	-	-	-	-	-	-	-	-
Route Segment 11	-	-	-	-	2.1	24.3	2.1	24.3	-	-	-	-	-	-	-	-
Route Segment 11 Equivalent	-	-	-	0.7	-	4.0	-	4.7	-	-	-	-	-	-	-	-
Route Segment 18	-	-	-	0.3	1.4	0.3	1.4	-	-	-	-	-	-	-	-	-
Route Segment 18 Equivalent	-	-	-	-	3.9	-	3.9	-	-	-	-	-	-	-	-	-
Alignment Alternative 2	-	-	-	0.1	14.7	0.1	14.7	-	-	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	1.0	11.0	1.0	11.0	-	-	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	0.5	2.1	0.5	2.1	-	-	-	-	-	-	3.0	23.9	
Alignment Alternative 8 Equivalent	-	-	-	0.5	2.2	0.5	2.2	-	-	-	-	-	-	2.6	23.6	
Segment 2 North	2.0	3.1	26.7	29.0	204.2	32.1	230.9	-	-	1.0	4.3	21.5	6.0	35.9		
Segment 2 South	2.0	2.4	17.6	33.3	183.9	35.7	201.5	-	-	-	-	-	-	0.4	10.6	
Route Segment 17 Hwy 14 Option	9.0	15.1	182.4	114.0	638.0	129.1	820.4	-	-	-	-	6.9	176.6	20.8	357.0	
Segment 3	3.0	10.2	91.3	47.5	302.4	57.7	393.6	-	1.0	1.0	16.0	142.7	68.1	490.8		

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	MN Department of Natural Resources Railroad ROW Prairies	MN Department of Natural Resources Designated Shallow Wildlife Lakes	MN Department of Natural Resources Wildlife Management Areas		MN Department of Natural Resources State Game Refuge		United States Fish and Wildlife Service Grassland Bird Conservation Area		Audubon Important Bird Areas		USFWS Waterfowl Production Areas
			0-75 ft	0-500 ft	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	
			Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	
	Crossings	Crossing Count									
Count											
Segment 1 North	-	2.0	8.6	63.9	17.0	127.4	363.7	2,412.1	3.6	41.5	0.0
Segment 1 South	-	2.0	5.9	55.0	5.0	51.9	368.1	2,458.5	-	11.3	-
Route Segment 1	-	-	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	-	-	-	-	-	-	-
Route Segment 5 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 6	-	-	-	-	-	-	60.2	416.9	-	-	-
Route Segment 6 Equivalent	-	-	-	-	-	-	68.2	469.3	-	-	-
Route Segment 7	-	-	-	-	-	-	36.5	257.9	-	-	-
Route Segment 7 Equivalent	-	-	-	-	-	-	29.5	215.0	-	-	-
Route Segment 9	-	-	-	-	-	-	-	-	-	-	-
Route Segment 9 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 10	-	-	-	-	-	-	5.8	48.8	-	-	-
Route Segment 10 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 11	-	-	-	-	-	-	5.7	48.7	-	-	-
Route Segment 11 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 18	-	-	-	-	-	-	-	-	-	-	-
Route Segment 18 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 2	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Segment 2 North	1.0	-	1.8	14.8	-	-	145.7	988.3	-	-	-
Segment 2 South	-	-	13.8	91.5	-	-	48.6	351.3	-	-	-
Route Segment 17 Hwy 14 Option	3.0	1.0	-	-	63.5	427.9	67.4	446.4	-	-	-
Segment 3	-	-	26.0	189.1	-	-	-	-	69.0	453.1	-

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

**APPENDIX G**  
**DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3**

SEGMENT	Wildlife Action Network				Natural Environment - Soil				
	High or Medium-High Rank	Medium Rank	Low or Medium-Low Rank	Total	Hydric Soils	Compaction Prone	Rutting Hazard	Erosion Hazard (Off-Road, Off-Trail)	Revegetation Concerns
					Hydric soils (100%) and predominantly hydric soils (67-99%)	Compaction prone soil rating of medium or higher	Rutting hazard rating of moderate or severe	Erosion hazard rating of medium, severe, or very severe	Non-irrigated land capability classification of 3 or greater
					0-75 (ft)	0-75 (ft)	0-75 (ft)	0-75 (ft)	
	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 1 North	9.3	87.0	25.1	121.4	322.0	436.8	752.2	307.1	90.8
Segment 1 South	2.0	32.2	10.2	44.4	374.8	473.3	855.0	214.2	65.0
Route Segment 1	-	-	-	-	48.7	1.0	50.4	-	-
Route Segment 1 Equivalent	-	-	-	-	40.2	1.1	42.3	-	-
Route Segment 5	-	-	-	-	15.9	8.1	24.0	4.5	-
Route Segment 5 Equivalent	-	-	-	-	14.1	7.4	21.5	5.7	-
Route Segment 6	-	-	-	-	27.2	38.0	65.3	13.7	1.8
Route Segment 6 Equivalent	-	-	-	-	24.8	49.1	74.4	30.7	9.2
Route Segment 7	-	-	-	-	7.4	28.4	36.5	8.2	1.5
Route Segment 7 Equivalent	-	-	-	-	11.3	25.0	36.3	0.9	-
Route Segment 9	-	-	-	-	3.7	13.0	16.7	10.7	1.2
Route Segment 9 Equivalent	-	-	-	-	4.5	12.2	16.7	11.7	2.2
Route Segment 10	-	-	-	-	8.3	44.1	53.2	14.4	-
Route Segment 10 Equivalent	-	-	-	-	10.3	28.4	38.7	8.6	0.6
Route Segment 11	-	-	-	-	14.7	51.7	66.4	11.8	-
Route Segment 11 Equivalent	-	-	-	-	13.1	35.7	48.9	11.9	0.6
Route Segment 18	-	-	-	-	5.0	23.7	28.8	15.9	4.4
Route Segment 18 Equivalent	-	-	-	-	4.9	23.9	28.8	21.7	10.1
Alignment Alternative 2	-	-	-	-	16.5	14.1	30.6	1.0	-
Alignment Alternative 2 Equivalent	-	-	-	-	19.4	11.3	30.7	0.7	-
Alignment Alternative 8	-	0.3	-	0.3	1.6	3.4	4.1	1.0	1.0
Alignment Alternative 8 Equivalent	-	0.3	-	0.3	1.9	3.7	4.2	0.7	0.7
Segment 2 North	15.9	26.6	16.7	59.2	195.2	550.3	747.0	217.1	31.2
Segment 2 South	4.1	3.4	2.5	10.0	157.0	455.9	612.4	305.7	10.5
Route Segment 17 Hwy 14 Option	17.2	21.7	53.2	92.1	786.2	836.9	1,722.3	317.6	33.0
Segment 3	60.8	28.2	29.5	118.5	36.4	709.9	781.9	635.4	148.8

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Total Length (mi)	Total acres 0-75 ft	Total acres 0-500 ft	Human Settlement - Aesthetics													
				Commercial & Non-Residential Structures					Residences (Houses)								
				0-50 ft		50-250 ft		250-500 ft	500-1,600 ft		Total	0-50 ft	50-250 ft		250-500 ft	500-1,600 ft	
				Count	Count	Count	Count	Count	Count	Count	Count	Count	Count	Count	Count	Total	
Segment 4 West	23.6	429.8	3,317.5	1.0	29.0	44.0	76.0	150.0	-	15.0	36.0	45.0	96.0				
Segment 4 West Modification	22.7	413.4	2,755.5	3.0	43.0	62.0	60.0	168.0	-	22.0	40.0	51.0	113.0				
Segment 4 East	19.6	356.6	2,476.8	2.0	75.0	157.0	122.0	356.0	1.0	43.0	112.0	102.0	258.0				
Segment 4 CapX Co-Locate Option	16.4	298.3	2,438.0	-	2.0	48.0	42.0	92.0	-	1.0	21.0	18.0	40.0				
Route Segment 4C	1.2	22.8	166.1	-	-	14.0	-	16.0	-	1.0	2.0	-	3.0				
Route Segment 4C Equivalent	1.2	22.5	164.0	-	-	-	-	18.0	18.0	-	-	-	2.0	2.0			
Route Segment 4E	3.1	57.5	398.4	-	4.0	12.0	33.0	49.0	-	2.0	3.0	14.0	19.0				
Route Segment 4E Equivalent	3.5	63.1	434.6	1.0	5.0	16.0	28.0	50.0	-	2.0	8.0	9.0	19.0				
Route Segment 4M	1.0	18.5	137.9	-	6.0	2.0	4.0	12.0	-	3.0	1.0	2.0	6.0				
Route Segment 4M Equivalent	1.0	18.7	138.8	-	-	-	20.0	20.0	-	-	-	-	5.0	5.0			
Route Segment 4R	0.6	10.8	86.3	1.0	2.0	-	11.0	14.0	2.0	2.0	2.0	15.0	21.0				
Route Segment 4R Equivalent	0.6	10.7	85.9	-	2.0	1.0	11.0	14.0	-	1.0	4.0	16.0	21.0				
Alignment Alternative 15 Equivalent	1.2	22.5	164.3	-	-	-	15.0	15.0	-	-	-	15.0	15.0				
Alignment Alternative 15	1.4	22.8	166.5	1.0	-	-	14.0	15.0	-	2.0	1.0	12.0	15.0				
Alignment Alternative 16	0.2	4.0	41.6	-	1.0	10.0	14.0	25.0	-	1.0	8.0	9.0	18.0				
Alignment Alternative 16 Equivalent	0.2	4.0	41.5	-	2.0	11.0	12.0	25.0	-	2.0	5.0	11.0	18.0				
Route Connector 4G	0.7	14.0	108.7	-	-	-	1.0	1.0	-	-	-	-	-				
Route Connector 4Q	0.4	8.4	71.5	-	-	2.0	39.0	41.0	-	-	1.0	31.0	32.0				

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Human Settlement - Aesthetics														
	Right-of-Way Paralleling by Type														
	Transmission Line		Road		Railroad		Transmission Line, Road, Railroad, or Pipeline		Field, Parcel, or Section Lines		Total Paralleling		Total Length not Paralleling Existing Infrastructure or Division Lines		
	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length
	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)
Segment 4 West	7.7	32.4	3.2	13.5	-	-	10.9	45.9	19.0	80.5	21.1	89.3	2.5	10.5	
Segment 4 West Modification	11.3	49.6	6.0	26.5	-	-	14.5	63.7	19.8	87.1	21.6	95.0	1.1	5.0	
Segment 4 East	6.5	33.4	14.4	73.4	-	-	16.1	82.1	18.3	93.3	18.6	94.7	1.0	5.3	
Segment 4 CapX Co-Locate Option	13.7	83.8	0.0	0.0	-	-	13.7	83.8	7.8	47.5	14.7	89.8	1.7	10.2	
Route Segment 4C	0.5	41.3	0.3	24.7	-	-	0.8	66.0	1.2	100.0	1.2	100.0	-	-	
Route Segment 4C Equivalent	0.0	0.0	-	-	-	-	0.0	0.0	1.2	100.0	1.2	100.0	-	-	
Route Segment 4E	-	-	2.4	68.4	-	-	2.4	68.4	2.9	82.9	2.9	82.9	0.6	17.1	
Route Segment 4E Equivalent	-	-	3.1	100.0	-	-	3.1	100.0	2.5	78.6	3.1	100.0	-	-	
Route Segment 4M	-	-	1.0	100.0	-	-	1.0	100.0	1.0	100.0	1.0	100.0	-	-	
Route Segment 4M Equivalent	0.3	25.0	-	-	-	-	0.3	25.0	0.5	48.4	0.5	49.4	0.5	50.6	
Route Segment 4R	-	-	0.0	3.5	-	-	0.0	3.5	0.6	100.0	0.6	100.0	-	-	
Route Segment 4R Equivalent	-	-	0.1	14.6	-	-	0.1	14.6	0.3	58.3	0.3	58.3	0.2	41.7	
Alignment Alternative 15 Equivalent	1.2	91.0	-	-	-	-	1.2	91.0	0.2	14.5	1.2	91.0	-	-	
Alignment Alternative 15	0.8	69.3	0.3	23.9	-	-	1.1	93.2	0.1	10.1	1.1	93.2	0.1	6.8	
Alignment Alternative 16	-	-	0.2	100.0	-	-	0.2	100.0	0.2	100.0	0.2	100.0	-	-	
Alignment Alternative 16 Equivalent	0.2	100.0	0.2	100.0	-	-	0.2	100.0	0.2	100.0	0.2	100.0	-	-	
Route Connector 4G	-	-	-	-	-	-	-	-	0.7	100.0	0.7	100.0	-	-	
Route Connector 4Q	-	-	0.4	100.0	-	-	0.4	100.0	0.4	100.0	0.4	100.0	-	-	

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Human Settlement - Recreation												Airports / Heliports	Land-based Economies - Agriculture			
	MN Department of Natural Resources State Water Trails			Scenic Byways			Snowmobile Trails			Wild and Scenic Rivers				Private			
	Crossing	0-500 ft	Count	Crossing	0-50 ft	0-500 ft	Crossing	0-50 ft	0-500 ft	Crossing	0-50 ft	Within 1 mi		0-500 ft	0-500 ft	% of Route Width	
	Count	Length (ft)	Count	Length (ft)	Length (ft)	Count	Length (ft)	Length (ft)	Count	Length (ft)	Length (ft)	Count	Area (ac)	Area (ac)	Width		
Segment 4 West	6.0	7,549.5	-	-	-	2.0	327.3	5,064.0	-	-	-	-	750.3	2,042.0			
Segment 4 West Modification	6.0	9,563.0	-	-	-	2.0	797.6	24,877.0	-	-	-	-	523.7	1,801.3			
Segment 4 East	3.0	4,328.8	-	-	-	8.0	4,965.7	19,989.0	-	-	-	-	474.6	1,520.7			
Segment 4 CapX Co-Locate Option	1.0	1,791.3	-	-	-	10.0	3,288.0	16,167.4	-	-	-	-	603.2	1,341.3			
Route Segment 4C	-	-	-	-	-	2.0	3,963.3	5,134.6	-	-	-	-	42.5	120.5			
Route Segment 4C Equivalent	-	-	-	-	-	-	145.7	1,002.4	-	-	-	-	43.0	117.0			
Route Segment 4E	-	-	-	-	-	-	-	438.9	-	-	-	-	52.9	257.4			
Route Segment 4E Equivalent	-	-	-	-	-	-	-	438.9	-	-	-	-	51.8	260.7			
Route Segment 4M	-	-	-	-	-	-	-	-	-	-	-	-	26.3	93.7			
Route Segment 4M Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	30.5	90.7			
Route Segment 4R	-	-	-	-	-	-	-	-	-	-	-	-	30.0	21.0			
Route Segment 4R Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	33.7	16.1			
Alignment Alternative 15 Equivalent	1.0	1,237.2	-	-	-	1.0	159.6	2,487.4	-	-	-	-	37.1	35.3			
Alignment Alternative 15	1.0	1,042.0	-	-	-	1.0	159.2	2,599.0	-	-	-	-	35.8	41.1			
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-	-	-	2.6	32.1			
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	2.8	32.5			
Route Connector 4G	-	-	-	-	-	-	-	-	-	-	-	-	14.2	40.1			
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-	-	-	6.6	47.3			

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Archaeological and Historic Resources													
	Cultural Resources - Archaeological Resources										Cultural Resources - Historical Resources			
	0-50 ft	50-250	250-500	500-1,600	1,600-5,280	0-50 ft	50-250 (ft)	250-500 (ft)	500-1,600 (ft)	1,600-5,280 (ft)	0-50 ft	50-500	500-5,280	Total
	Count	Count	Count	Count	Count	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Count	Count	Count	Count
Segment 4 West	1.0	-	2.0	-	7.0	20.6	-	138.5	-	986.2	1.0	2.0	170.0	173.0
Segment 4 West Modification	1.0	-	4.0	-	10.0	21.2	-	151.8	-	1,700.6	1.0	5.0	171.0	177.0
Segment 4 East	1.0	-	5.0	-	16.0	0.3	-	0.7	-	498.4	8.0	26.0	103.0	137.0
Segment 4 CapX Co-Locate Option	1.0	-	2.0	-	8.0	0.7	-	1.8	-	54.1	2.0	3.0	73.0	78.0
Route Segment 4C	1.0	-	1.0	-	2.0	0.7	-	0.8	-	126.3	-	-	9.0	9.0
Route Segment 4C Equivalent	-	-	1.0	-	2.0	-	-	0.2	-	351.6	-	-	25.0	25.0
Route Segment 4E	-	-	-	-	8.0	-	-	-	-	1.7	-	11.0	65.0	76.0
Route Segment 4E Equivalent	-	-	-	-	9.0	-	-	-	-	1.8	4.0	7.0	66.0	77.0
Route Segment 4M	-	-	-	-	1.0	-	-	-	-	10.5	1.0	-	3.0	4.0
Route Segment 4M Equivalent	-	-	-	-	1.0	-	-	-	-	10.5	-	-	2.0	2.0
Route Segment 4R	-	-	-	-	3.0	-	-	-	-	4.8	-	-	4.0	4.0
Route Segment 4R Equivalent	-	-	-	-	3.0	-	-	-	-	4.8	-	1.0	3.0	4.0
Alignment Alternative 15 Equivalent	-	-	1.0	-	1.0	-	-	0.2	-	1.0	-	1.0	2.0	3.0
Alignment Alternative 15	1.0	-	1.0	-	1.0	0.8	-	1.0	-	1.0	-	1.0	2.0	3.0
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.0
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.0
Route Connector 4G	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1.0
Route Connector 4Q	-	-	-	-	-	2.0	-	-	-	2.5	-	-	7.0	7.0

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Archaeological and Historic Resources									
	Cultural Resources - Historical Cemeteries									
	0-50 ft	50-250 ft	250-500 ft	500-1,600 ft	1,600-5,280 ft	0-50 ft	50-250 (ft)	250-500 (ft)	500-1,600 (ft)	1,600-5,280 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)
Segment 4 West	41.0	-	131.0	-	275.0	61.0	-	551.8	-	3,689.1
Segment 4 West Modification	36.0	-	121.0	-	258.0	43.1	-	289.3	-	2,861.4
Segment 4 East	73.0	-	185.0	-	359.0	85.7	-	569.1	-	6,138.6
Segment 4 CapX Co-Locate Option	53.0	-	174.0	-	314.0	118.6	-	868.3	-	8,282.3
Route Segment 4C	14.0	-	36.0	-	134.0	22.8	-	166.0	-	3,458.0
Route Segment 4C Equivalent	10.0	-	30.0	-	146.0	22.4	-	163.9	-	3,441.7
Route Segment 4E	-	-	3.0	-	19.0	-	-	5.5	-	1,201.9
Route Segment 4E Equivalent	-	-	4.0	-	24.0	-	-	5.8	-	1,120.5
Route Segment 4M	9.0	-	18.0	-	33.0	10.2	-	65.3	-	634.3
Route Segment 4M Equivalent	9.0	-	21.0	-	32.0	18.4	-	121.6	-	631.5
Route Segment 4R	-	-	-	-	-	-	-	-	-	-
Route Segment 4R Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 15 Equivalent	-	-	-	-	1.0	-	-	-	-	36.2
Alignment Alternative 15	-	-	-	-	1.0	-	-	-	-	36.2
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Connector 4G	-	-	-	-	-	-	-	-	-	-
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Natural Environment - Public and Designated Lands				Natural Environment - Vegetation												
	DNR Conservation Easements by Type				National Landcover Dataset												
	Federal CREP Easements	State RIM Easements	Forest Legacy	Permanent Wetland Program	Agricultural (cultivated crops; hay and pasture)			Forest (upland and wetland)			Herbaceous (upland and wetland)			Open Water		Developed (low-med-high intensity; open space)	
	0-500	0-500	0-500	0-500	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 4 West	-	-	-	-	201.4	2,514.2	33.8	411.8	17.6	196.3	0.2	1.9	32.9	164.9			
Segment 4 West Modification	-	-	-	-	174.7	1,973.7	28.0	308.9	16.9	203.4	0.2	3.3	55.6	237.7			
Segment 4 East	-	-	-	-	102.1	1,261.1	10.4	221.6	29.2	212.1	0.4	4.5	94.0	745.3			
Segment 4 CapX Co-Locate Option	-	-	-	-	159.2	1,944.1	18.7	215.3	13.2	116.2	1.8	24.5	5.8	132.1			
Route Segment 4C	-	-	-	-	19.0	143.2	-	-	0.2	5.7	-	-	3.5	17.2			
Route Segment 4C Equivalent	-	-	-	-	21.9	158.3	-	-	-	0.3	-	-	0.6	5.4			
Route Segment 4E	-	-	-	-	26.2	169.3	1.0	22.1	6.9	31.7	-	-	23.2	171.2			
Route Segment 4E Equivalent	-	-	-	-	34.7	211.1	4.0	29.5	8.1	46.1	-	-	16.3	145.8			
Route Segment 4M	-	-	-	-	4.7	98.7	-	1.9	2.6	18.5	-	-	11.3	18.9			
Route Segment 4M Equivalent	-	-	-	-	17.0	120.0	0.5	4.2	0.7	9.9	-	-	0.5	4.7			
Route Segment 4R	-	-	-	-	8.5	62.2	1.4	17.6	0.3	3.0	-	-	0.6	3.5			
Route Segment 4R Equivalent	-	-	-	-	9.5	61.2	0.2	16.0	-	4.6	-	-	1.0	4.2			
Alignment Alternative 15 Equivalent	-	-	-	-	3.1	46.0	13.2	87.7	3.3	9.5	2.7	16.3	0.5	6.9			
Alignment Alternative 15	-	-	-	-	7.8	55.3	11.6	80.5	0.7	5.9	1.4	11.5	1.0	11.1			
Alignment Alternative 16	-	-	-	-	0.0	17.4	0.1	4.7	1.6	5.6	-	-	2.3	14.0			
Alignment Alternative 16 Equivalent	-	-	-	-	0.8	16.4	0.0	4.9	0.1	4.9	-	-	3.1	15.2			
Route Connector 4G	-	-	-	-	11.0	98.8	-	-	0.2	5.0	-	-	2.8	4.9			
Route Connector 4Q	-	-	-	-	2.4	50.1	-	1.7	1.6	6.5	-	-	4.5	10.2			

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Natural Environment - Surface Water									
	National Hydrography Dataset Waterbodies		Public Water Inventory Basins			Impaired Streams	National Hydrography Dataset Watercourses	Trout Streams	Public Water Inventory Streams	
	Crossing	0-500 ft	Crossing	0-50 ft	0-500 ft				Crossing	Crossing
	Count	Area (ac)	Count	Area (ac)	Area (ac)	Crossing	Count	Count	Count	Count
Segment 4 West		3.1		-		3.0	29.0	-	-	5.0
Segment 4 West Modification		2.7		-		3.0	25.0	-	-	5.0
Segment 4 East	5.0	72.8	5.0	5.7	58.5	3.0	22.0	-	-	3.0
Segment 4 CapX Co-Locate Option	1.0	35.6	1.0	1.9	22.9	-	30.0	-	-	1.0
Route Segment 4C	-	-	-	-	-	-	1.0	-	-	-
Route Segment 4C Equivalent	-	-	-	-	-	-	1.0	-	-	-
Route Segment 4E	-	1.5	-	-	1.3	-	3.0	-	-	-
Route Segment 4E Equivalent	1.0	12.7	1.0	1.2	10.4	-	3.0	-	-	-
Route Segment 4M	-	-	-	-	-	-	1.0	-	-	-
Route Segment 4M Equivalent	-	-	-	-	-	-	2.0	-	-	-
Route Segment 4R	-	0.0	-	-	-	-	1.0	-	-	-
Route Segment 4R Equivalent	-	1.8	-	-	-	-	1.0	-	-	-
Alignment Alternative 15 Equivalent	1.0	27.3	1.0	2.8	18.0	-	1.0	-	-	1.0
Alignment Alternative 15	1.0	20.6	1.0	1.4	12.3	-	1.0	-	-	1.0
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Connector 4G	-	-	-	-	-	-	-	1.0	-	-
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	National Wetland Inventory Wetlands										MN Department of Natural Resources Lakes of Biological Significance		MN Department of Natural Resources Native Plant Communities				MN Department of Natural Resources Railroad ROW Prairies	
	Forested		Non Forested		Total		Crossings >1,000 ft		Crossings									
	Crossings >1,000 ft	0-50 ft	0-500 ft	0-50 ft	0-500 ft	0-50 ft	0-500 ft	Count	Area (ac)	Count	Area (ac)	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)		
	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Count	Area (ac)	Count	Area (ac)	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Count	
Segment 4 West	1.0	5.7	76.6	5.2	79.7	10.9	156.4	-	-	-	3.0	35.8	6.1	77.7	-	-	-	
Segment 4 West Modification	1.0	6.4	76.7	4.9	68.9	11.3	145.6	-	-	-	3.0	47.0	4.3	58.1	-	-	-	
Segment 4 East	-	0.6	14.4	8.0	92.7	8.6	107.1	-	-	-	-	-	8.2	0.5	30.4	-	-	
Segment 4 CapX Co-Locate Option	-	1.4	13.9	2.4	41.3	3.7	55.2	-	-	-	5.3	27.9	9.5	109.8	-	-	-	
Route Segment 4C	-	-	-	-	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	
Route Segment 4C Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Route Segment 4E	-	-	0.1	-	2.3	-	2.4	-	-	-	-	-	-	-	0.9	-	-	
Route Segment 4E Equivalent	-	0.2	6.7	1.4	11.7	1.6	18.4	-	-	-	-	-	-	-	0.7	15.1	-	
Route Segment 4M	-	0.4	2.3	2.0	14.3	2.4	16.5	-	-	-	-	-	-	-	-	-	-	
Route Segment 4M Equivalent	-	1.3	8.3	1.0	7.8	2.3	16.1	-	-	-	-	-	-	-	-	-	-	
Route Segment 4R	-	-	-	0.7	2.0	0.7	2.0	-	-	-	0.6	11.5	0.6	16.1	-	-	-	
Route Segment 4R Equivalent	-	-	-	0.2	4.3	0.2	4.3	-	-	-	0.1	5.1	0.1	9.7	-	-	-	
Alignment Alternative 15 Equivalent	-	0.8	5.2	2.7	17.0	3.5	22.2	-	-	-	4.0	27.9	5.8	54.4	-	-	-	
Alignment Alternative 15	-	0.8	4.8	1.4	11.4	2.1	16.2	-	-	-	0.9	18.2	3.3	36.0	-	-	-	
Alignment Alternative 16	-	-	-	0.1	1.6	0.1	1.6	-	-	-	-	-	-	-	-	-	-	
Alignment Alternative 16 Equivalent	-	-	-	-	1.3	-	1.3	-	-	-	-	-	-	-	-	-	-	
Route Connector 4G	-	-	-	-	1.2	6.5	1.2	6.5	-	-	-	-	-	-	-	-	-	
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	MN Department of Natural Resources Designated Shallow Wildlife Lakes	MN Department of Natural Resources Wildlife Management Areas		MN Department of Natural Resources State Game Refuge		United States Fish and Wildlife Service Grassland Bird Conservation Area		Audubon Important Bird Areas		USFWS Waterfowl Production Areas
		0-50 ft	0-500 ft	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	
		Crossing Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	
Segment 4 West	-	-	-	-	-	-	-	-	-	-
Segment 4 West Modification	-	-	-	-	-	33.0	328.0	-	-	-
Segment 4 East	-	-	-	-	-	-	-	-	-	-
Segment 4 CapX Co-Locate Option	-	-	-	-	-	-	-	-	-	-
Route Segment 4C	-	-	-	-	-	-	-	-	-	-
Route Segment 4C Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 4E	-	-	-	-	-	-	-	-	-	-
Route Segment 4E Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 4M	-	-	-	-	-	-	-	-	-	-
Route Segment 4M Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 4R	-	-	-	-	-	-	-	-	-	-
Route Segment 4R Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 15 Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 15	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Connector 4G	-	-	-	-	-	12.4	90.6	-	-	-
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G  
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Wildlife Action Network				Natural Environment - Soil				
	High or Medium-High Rank	Medium Rank	Low or Medium-Low Rank	Total	Hydric Soils	Compaction Prone	Rutting Hazard	Erosion Hazard (Off-Road, Off-Trail)	Revegetation Concerns
					Hydric soils (100%) and predominantly hydric soils (67-99%)	Compaction prone soil rating of medium or higher	Rutting hazard rating of moderate or severe	Erosion hazard rating of medium, severe, or very severe	Non-irrigated land capability classification of 3 or greater
	0-50 ft	0-50 ft	0-50 ft	0-50 ft	0-50 ft	0-50 ft	0-50 ft	0-50 ft	0-50 ft
	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 4 West	9.0	-	18.0	27.0	25.7	245.0	283.0	184.0	20.0
Segment 4 West Modification	9.0	-	16.0	25.0	18.8	192.0	273.0	141.0	14.0
Segment 4 East	1.0	1.0	7.0	9.0	4.3	223.0	232.0	146.0	19.0
Segment 4 CapX Co-Locate Option	4.0	0.0	19.0	23.0	2.6	199.0	197.0	153.0	34.0
Route Segment 4C	-	-	-	-	-	22.8	22.8	18.4	0.5
Route Segment 4C Equivalent	-	-	-	-	-	22.4	22.4	20.9	0.0
Route Segment 4E	-	-	-	-	0.3	56.8	57.4	21.5	1.2
Route Segment 4E Equivalent	-	0.0	-	0.0	1.7	62.1	62.1	23.9	3.7
Route Segment 4M	-	-	-	-	7.0	11.5	18.5	11.0	-
Route Segment 4M Equivalent	-	-	-	-	3.9	14.8	18.7	12.9	2.3
Route Segment 4R	-	-	-	-	-	10.8	10.8	10.1	2.1
Route Segment 4R Equivalent	-	-	-	-	-	10.7	10.7	10.3	5.9
Alignment Alternative 15 Equivalent	5.2	0.0	10.8	16.0	-	20.1	20.1	19.1	6.7
Alignment Alternative 15	3.7	0.8	11.7	16.2	-	20.8	21.3	20.2	6.6
Alignment Alternative 16	-	-	-	-	-	4.0	4.0	3.2	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	4.0	4.0	2.9	-
Route Connector 4G	-	-	-	-	3.6	10.4	14.0	1.8	-
Route Connector 4Q	-	-	-	-	-	8.4	8.4	7.0	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.