

# BURLEIGH COUNTY BELTWAY ROUTE COMPARISON MATRIX

EVALUATION CRITERIA	EAST LEG		NORTH LEG		SOUTH LEG	
	66 <sup>th</sup> Street	80 <sup>th</sup> Street	84 <sup>th</sup> Ave	71 <sup>st</sup> Ave	48 <sup>th</sup> Ave	62 <sup>nd</sup> Ave
<b>Cost / Environmental</b>						
Waterway Crossings	No Difference	No Difference	√			√
Flooding	No Difference	No Difference	No Difference	No Difference	No Difference	No Difference
LF of Wetlands Crossed	√		No Difference	No Difference	No Difference	No Difference
LF of Floodplain Crossed	√		No Difference	No Difference	No Difference	√
Existing Ground Profile	√		√		√	<b>X</b>
<b>Operational</b>						
Feasible Posted Speed Limit	√		√			No Difference
Number of Access Points	√		√			No Difference
Early Interchange Justification	√			√		No Difference
Traffic Relief from US 83 & Centennial Rd	√		No Difference	No Difference	No Difference	No Difference
Connection to City of Lincoln	√		NA	NA	√	
Connectivity to 1804	NA	NA		√		No Difference

**KEY**

√ = Better Alternative

**X** = Fatal Flaw

**Recommended Alignment Alternatives: 66<sup>th</sup> Street, 71<sup>st</sup> Avenue, & 48<sup>th</sup> Avenue**

# MORTON COUNTY BELTWAY ROUTE COMPARISON MATRIX

EVALUATION CRITERIA	WEST LEG		NORTH LEG	SOUTH LEG
	24 <sup>th</sup> Avenue	ND #25 / 24 <sup>th</sup> Avenue	37 <sup>th</sup> Street	46 <sup>th</sup> Street
<b>Cost / Environmental</b>				
Waterway Crossings	No Difference			
Flooding	No Difference			
LF of Wetlands Crossed	√			
LF of Floodplain Crossed		√		
Existing Ground Profile	√			
<b>Operational</b>				
Feasible Posted Speed Limit	No Difference			
Number of Access Points	√			
Early Development Opportunities	√			
Existing Interchange @ I-94		√		
Traffic Relief from Sunset Drive & 1806	√			
Slope Stability Issues		√		
			Route	Route
			No Alternative	No Alternative

**KEY**

√ = Better Alternative

X = Fatal Flaw

**Recommended Alignment Alternatives: 37<sup>th</sup> Street, 24<sup>th</sup> Avenue & 46<sup>th</sup> Street**

## BELTWAY ATTRIBUTE RECOMMENDATIONS

DESIGN FEATURE	BELTWAY CORRIDOR	ARTERIAL CORRIDOR
Design Speed	55-65 mph (Preferred)	40-45 mph (Preferred)
	35-45 mph (Minimum)	35 mph (Minimum)
Expected Posted Speed	55 mph & Varies	45 mph
Projected Level of Service	C or Better	C or Better
Clear Zone (ft)	46 (65 mph)	28 (45 mph)
	28 (45 mph)	10 (35 mph)
Maximum Grade	4% (65 mph)	6% (45 mph)
	6% (45 mph)	7% (35 mph)
Minimum Stopping Sight Distance (ft)	645 (65 mph)	360 (45 mph)
	360 (45 mph)	305 (35 mph)
Minimum Passing Sight Distance (ft)	2285 (65 mph)	1625 (45 mph)
	1625 (45 mph)	1280 (35 mph)
Access Spacing (ft)	1320 (Recommended)	1320 (Recommended)
ROW (ft)	200 ft (Preferred)	200 (Preferred)
Lane Width (ft)	12	10 - 12
Shoulder Width (ft)	8	6 - 8
Preferred Shoulder Type	paved	paved
Turn Lane Width (ft)	12	12
Turn Lane Length (ft)	560 (65 mph)	varies (45 mph)
	varies (45 mph)	varies (35 mph)
Inslope (H:V)	6:1	6:1 (45 mph)
Normal Ditch (depth x width) (ft)	4 x 24	4 x 24 (45 mph)
Backslope (H:V)	3:1	3:1 (45 mph)
Minimum Bridge Width (New) (ft)	40	40
Approach & Ditch Block Slopes (H:V)	10:1	10:1 (45 mph)
Interchange @ I-94	Yes	Possible Overpass