

# Evaluation Matrix

Evaluation Criteria	Unit of Measure	Jack Brack Road Segment			Nova Road Segment	
		Diamond Interchange	Partial Cloverleaf Interchange	Tighter Diamond Interchange	Option 1	Option 2
<b>Design</b>						
Alternative Length (approximate)	Miles	1.9	1.9	1.9	1.7	1.8
Proposed Right-of-Way Width (general and varies at interchanges)	Feet	330	330	330	330	330
Proposed Bridges	Structures	4	4	4	4	4
	Feet	751	774	751	946	804
Proposed Interchanges	Number	1	1	1	0	0
Projected 2045 Annual Average Daily Traffic (AADT) Volume	Vehicles	35,900	35,900	35,900	19,000	19,000
<b>Physical</b>						
Major Utility Conflicts - Existing	No. of Conflicts	0	0	0	0	0
Major Utility Conflicts - Planned	No. of Conflicts	0	0	0	0	0
Contamination Sites & Facilities	No. of Conflicts	2	2	2	0	0
Railroad Involvement	No. of Conflicts	0	0	0	0	0
<b>Cultural Environment Effects</b>						
Potential Historic Resources	No. of Conflicts	1	1	1	0	1
Potential Historic Linear Resources	No. of Resources	0	0	0	2	2
Potential Archaeological Resources	No. of Resources	0	0	0	0	0
<b>Natural Environment</b>						
Canal Crossings	No. of Crossings	0	0	0	1	1
Flood Hazard Areas - 100 Year Floodplain	Acres	28	18	21	22	21
Wetlands (non-forested and forested)	Acres	15	13	11	11	7
Surface Waters	Acres	2	0	0.5	0.5	0.5
Potential Bald Eagle Nest	No. Conflicts	0	0	0	0	0
Potential Species Impacts (composite rating)	Rating	Moderate	Moderate	Moderate	Moderate	Moderate
Mitigation Properties	Acres	0	0	0	0	0
Conservation Easement	Acres	0	0	0	0	0
<b>Social</b>						
Right-of-Way Area (without ponds)	Acres	123	115	115	66	70
Potential Residential Parcel Impacts	Total Parcels	0	0	0	0	0
Potential Non-Residential Parcel Impacts	Total Parcels	4	4	4	3	3
Potential Displacements	Total Parcels	0	0	0	0	0
Community Facilities Impacted	No. of Conflicts	0	0	0	0	0
Parks and Recreational Facilities Impacted	No. of Conflicts	0	0	0	0	0
Trails Impacted	No. of Conflicts	0	0	0	0	0
Community Cohesion Effects	Ranking	None	None	None	None	None
Socioeconomic Impacts to Special Populations	Ranking	None	None	None	None	None
Planned Residential Developments	Acres	123	115	115	66	70
<b>Estimated Costs</b>						
Roadway Construction	\$ Million	\$46	\$46	\$44	\$30	\$39
Bridges Construction	\$ Million	\$10	\$11	\$10	\$10	\$10
Interchanges Construction	\$ Million	\$11	\$10	\$11	\$5	\$5
Toll Collection Equipment	\$ Million	\$1	\$1	\$1	\$2	\$2
Right-of-Way Cost (without proposed ponds)	\$ Million	\$11	\$11	\$10	\$6	\$6
Mitigation, Wetlands, & Wildlife	\$ Million	\$2	\$1	\$1	\$1	\$1
Engineering / Administration / Legal	\$ Million	\$16	\$16	\$16	\$11	\$13
<b>Total Estimated Alternative Costs</b>		<b>\$97</b>	<b>\$96</b>	<b>\$93</b>	<b>\$65</b>	<b>\$76</b>

**Legend:**



Relatively High Impacts



Relatively Moderate Impacts



Relatively Low Impacts



Preferred Alternative