Impact Matrix - Mainline Alternatives

Comparison Factors	Quantity/Type	No-Build (#1)	No-Build + Minor Improvements (#2)	Four-Lane Continuity (#3)	Express Lanes (#4A)	Express Lanes (#4B)	Express Lanes (#4C)	Parkway (#5)	Divided Interstate (#6)
Project Goals									
Ease congestion on I-75	high/medium/low	low	low	medium	high	high	high	low	medium
Improve safety on I-75	high/medium/low	low	medium	high	high	high	high	medium	high
Increase regional mobility	high/medium/low	low	low	high	high	high	high	medium	high
Provide transportation solutions compatible with local land use plans	high/medium/low	low	low	high	medium	low	low	medium	medium
Design Factors									
Mainline Lanes	number	3	3	4	3	3	3	3	4
Auxiliary Lanes	yes/no	no	yes	yes	yes	yes	yes	yes	yes
Express Lanes	number	0	0	0	2	2	2	0	0
Maintenance of Traffic during construction	complex/simple	Simple	Simple	Simple	Complex	Complex	Complex	Complex	Simple
Potential Utility Impacts	complex/simple	Simple	Simple	Simple	Complex	Complex	Complex	Complex	Complex
OKI 2030 LRP/NSTI Recommendation	yes/no	no	no	yes	no	no	no	no	no
Transit Corridor Preservation	yes/no	yes	yes	yes	yes	yes	yes	yes	yes
Constructability Issues	complex/simple	Simple	Simple	Complex	Complex	Complex	Complex	Complex	Complex
Community & Environmental Resources									
Potentially Affected Properties									
Residential Buildings	number	0	8	17	18	38	19	26	80
Non-Residential Buildings	number	0	5	8	9	14	2	10	17
Total Parcels	number	0	60	88	151	222	103	124	317
Total New Permanent Right-of-Way	acres	0.0	6.6	8.3	7.1	24.2	8.2	24.7	35.8
Potentially Affected Environmental Resources									
History/Architecture Properties	number	0	0	2	2	2	2	2	2
Archaeological Sites	number	0	0	0	0	0	0	0	0
Hazardous Material Sites	number	0	4	8	3	6	6	5	12
Threatened & Endangered Species	number	2	2	2	2	2	2	2	2
Wetlands	acres	0	1	0	0	0	0	2	0
Surface Waters	acres	0	0	0	0	0	0	0	0
Waterways	linear feet	0	2,185	4,463	3,525	3,345	2,832	2,243	1,811
100-Year Flood Plain	acres	0	5	13	12	13	13	42	3
Floodway	acres	0	1	1	1	1	1	5	0
Terrestrial Habitat	acres	0	3	14	12	13	14	26	7
Farmland/Agricultural Districts	acres	0	0	0	0	0	0	0	0
Noise Sensitive Land Uses	number	0	1,427	1,357	1,400	1,486	1,369	1,698	1,694
Potentially Affected Community Resources									
Public Facilities & Services	number	0	2	2	2	2	2	2	0
Cemetery Land	number	0	0	0	0	0	0	0	0
Parks & Other Recreational Land/Section 4(f)	number	0	0	0	0	0	0	0	1
Environmental Justice Populations	yes/no	no	yes	yes	yes	yes	yes	yes	yes
Public Support	yes/no	low	low	high	medium	high	low	medium	high
Cost Estimates									
Right-of-Way Cost	dollars	N/A	$4,477,000	$5,764,000	$4,929,000	$16,837,000	$7,069,000	$10,948,000	$22,044,000
Construction Cost	dollars	N/A	$58,476,000	$110,374,000	$452,529,000	$153,285,000	$449,849,000	$210,950,000	$229,260,000
Overall Project Cost (incl. Inflation, contingency, etc)	dollars	N/A	$79,783,000	$152,979,000	$606,956,000	$221,092,000	$605,533,000	$293,808,000	$348,040,000
ODOT/TRAC Project Budget	dollars	N/A	$159,000,000	$159,000,000	$159,000,000	$159,000,000	$159,000,000	$159,000,000	$159,000,000

Impact Matrix - Project Options

Comparison Factors	Quantity/Type	Davis Street/ Cooper Avenue Interchange (#1)	Shepherd Lane/ Mangham Drive Interchange (#2A)	Shepherd Lane/ Mangham Drive Interchange (#2B)	Shepherd Lane/ Mangham Drive Interchange (#2C)	Local Roads (#3)	Collector-Distributor Roads (#4)
Project Goals							
Ease congestion on I-75	high/medium/low	N/A	N/A	N/A	N/A	N/A	medium
Improve safety on I-75	high/medium/low	medium	medium	medium	medium	N/A	medium
Increase regional mobility	high/medium/low	medium	medium	medium	medium	medium	medium
Provide transportation solutions compatible with local land use plans	high/medium/low	high	low	high	high	high	low
Design Factors							
Maintenance of Traffic during construction	complex/simple	Simple	Simple	Complex	Complex	Simple	Complex
Potential Utility Impacts	complex/simple	Simple	Simple	Complex	Complex	Simple	Complex
OKI 2030 LRP/NSTI Recommendation	yes/no	yes	yes	yes	yes	yes	no
Transit Corridor Preservation	yes/no	yes	yes	yes	yes	yes	yes
Constructability Issues	complex/simple	Simple	Simple	Complex	Complex	Simple	Simple
Community & Environmental Resources							
Potentially Affected Properties							
Residential Buildings	number	33	3	0	0	5	25
Non-Residential Buildings	number	6	7	2	3	5	24
Total Parcels	number	92	91	36	35	80	215
Total New Permanent Right-of-Way	acres	21.6	8.5	16.0	11.5	14.4	17.9
Potentially Affected Environmental Resources							
History/Architecture Properties	number	2	0	0	0	0	2
Archaeological Sites	number	0	0	0	0	0	0
Hazardous Material Sites	number	4	3	3	3	5	0
Threatened & Endangered Species	number	2	2	2	2	2	2
Wetlands	acres	0	0	0	0	0	2
Surface Waters	acres	0	0	0	0	0	0
Waterways	linear feet	750	0	0	0	2,300	3,266
100-Year Flood Plain	acres	0	0	0	0	0	0
Floodway	acres	0	0	0	0	0	0
Terrestrial Habitat	acres	3	0	0	0	0	2
Farmland/Agricultural Districts	acres	0	0	0	0	0	0
Noise Sensitive Land Uses	number	797	290	282	291	286	904
Potentially Affected Community Resources							
Public Facilities & Services	number	0	0	0	0	0	2
Cemetery Land	number	0	0	0	0	0	0
Parks & Other Recreational Land/Section 4(f)	number	0	0	0	0	0	0
Environmental Justice Populations	yes/no	yes	yes	yes	yes	yes	yes
Public Support	yes/no	high	low	high	high	medium	low
Cost Estimates							
Right-of-Way Cost	dollars	$19,672,000	$4,844,000	$7,074,000	$5,390,000	$4,872,000	$15,196,000
Construction Cost	dollars	$34,369,000	$12,317,000	$22,616,000	$21,004,000	$9,407,000	$116,207,000
Overall Project Cost (incl. Inflation, contingency, etc)	dollars	$63,839,000	$20,801,000	$36,206,000	$32,459,000	$17,206,000	$142,076,000
ODOT/TRAC Project Budget	dollars	$159,000,000	$159,000,000	$159,000,000	$159,000,000	$159,000,000	$159,000,000