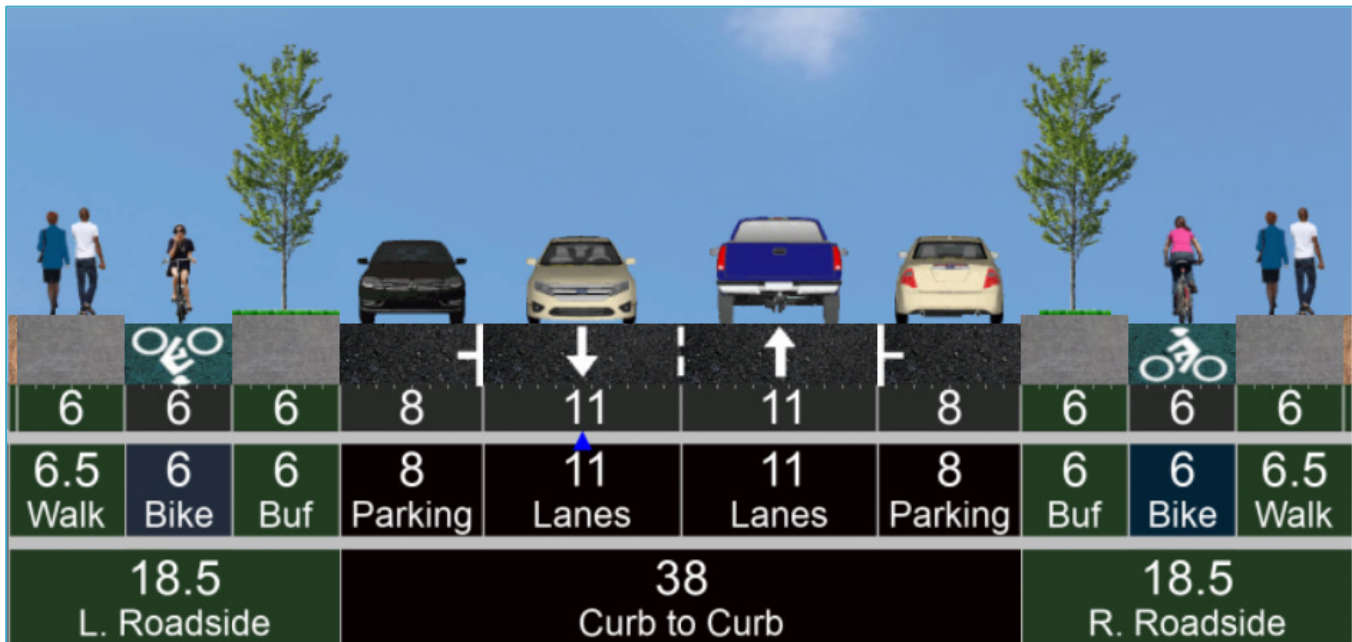


Kingston Terrace Collector Street Cross-sections (from Draft King City Transportation System Plan)

Cross-section to use for East/West Circulation Alternatives between Elsner Road and point of connection to existing city streets (provide for transition to existing city street as appropriate)

TSP Figure 33: Typical City Collector, Neighborhood Route, and Local Street cross-section Major Pedestrian, Major Bicycle and Transit route designation



Cross-section to assume on bridges or culverts

Assume two 11-foot vehicle travel lanes with the bicycle/pedestrian cross-section shown below on both sides of the structure. Assume there will be a transition from the collector road cross-section which includes parking to a cross-section that does not include parking on the bridge.

TSP Figure 30: SEPARATED Pedestrian and Bicycle Facility Designs

Accessway or Low Use Shared Use Path Design*



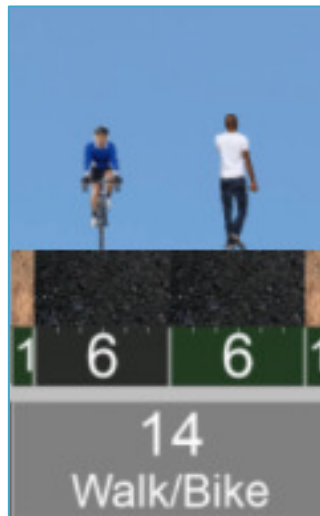
Note: * For short segments, a low use accessway or shared use path can be as narrow as 8 feet wide, with a 1-foot shoulder on each side and a total right-of-way of 10 feet.

Cross-section to assume on Multi-use Pathway

Choice of cross-section depends on where the pathway would be located and the level of activity expected.

TSP Figure 30: SEPARATED Pedestrian and Bicycle Facility Designs

Typical Shared Use Path Design

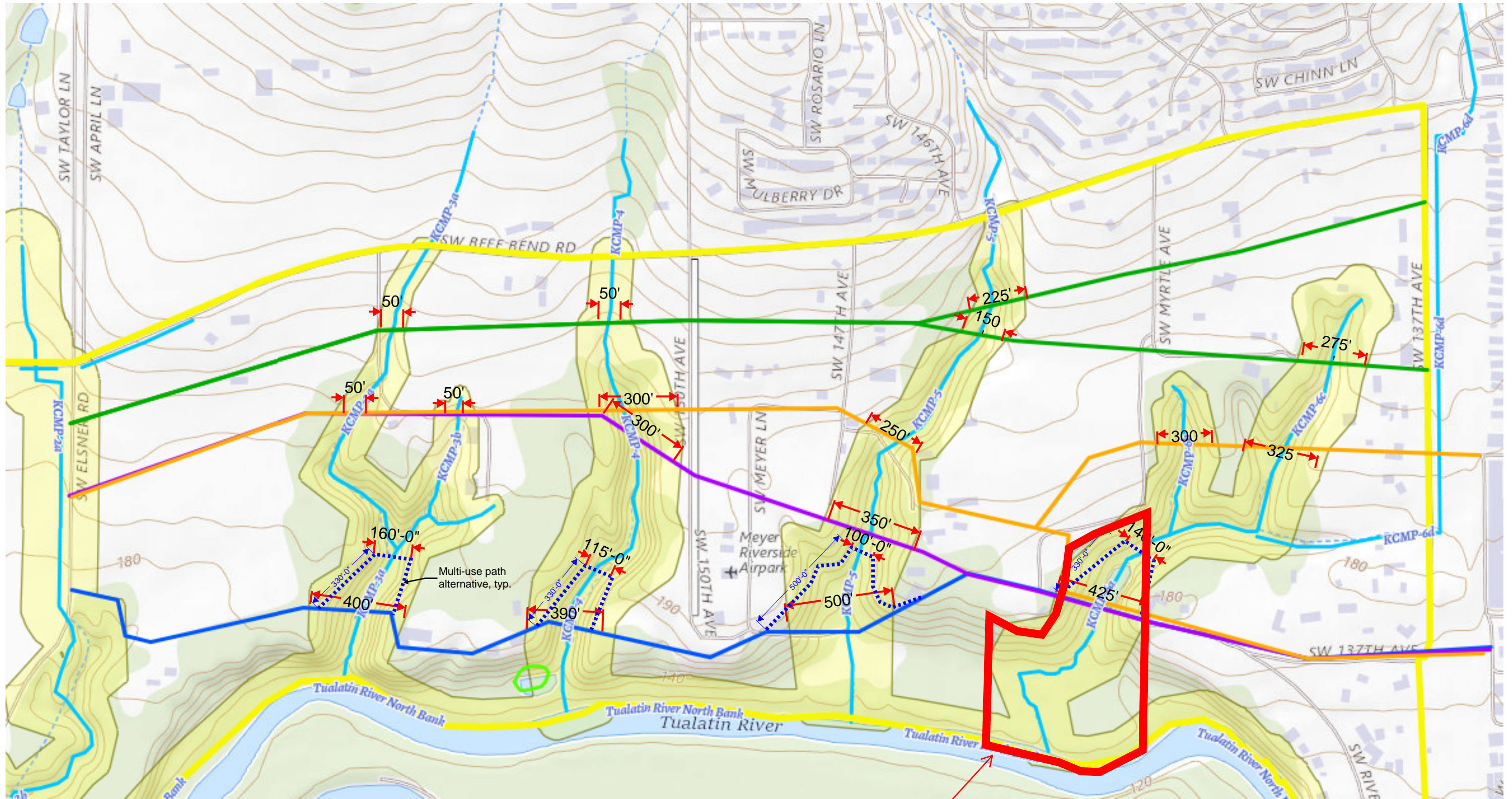


High Demand Shared Use Path Design



Kingston Terrace East / West Circulation Alternatives

Bridge Lengths



Bankston Easement

Alternative 1 Planning Level Cost Estimate

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 6437ft	
Roadway Full Width						Bridge Length	1715
Roadway	\$388.00	LF	4642	\$1,801,096.00		Shared Use Path	0
Environmental Mitigation	\$90,054.80	LS	1	\$90,054.80	5% roadway total	Roadway Full Width	4642
Roadway Taper						Roadway Taper	80
Taper	\$304.00	LF	80	\$24,320.00			
Environmental Mitigation	\$1,216.00	LS	1	\$1,216.00	5% roadway total		
Bridge							
Bridge	\$26,000,000.00	LS	1	\$26,000,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	1715	\$238,385.00			
Environmental Mitigation	\$11,919.25	LS	1	\$11,919.25	5% roadway total		
Shared Use Path							
Path	\$64.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Landscaping							
Buffer	\$360.00	LF	1715	\$617,400.00			
Construction Phase Total (1)				\$28,784,391.05			
Stormwater							
Stormwater	\$2,878,439.11	LS	1	\$2,878,439.11	10% phase total (1)		
Construction Phase Total (2)				\$31,662,830.16			
Mobilization							
Mobilization	\$2,533,026.41	LS	1	\$2,533,026.41	8% phase total (2)		
Construction Phase Total (3)				\$34,195,856.57			
Construction Phase Total				\$34,195,856.57			
Preliminary Contingency (40%)				\$13,678,342.63			
Alternative Total				\$47,874,199.19			

Alternative 1 Trail - Planning Level Cost Estimates

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 6437ft	
Roadway Full Width						Bridge Length	515
Roadway	\$388.00	LF	0	\$0.00		Shared Use Path	5922
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total	Roadway Full Width	0
Roadway Taper						Roadway Taper	0
Taper	\$304.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Bridge							
Bridge	\$3,000,000.00	LS	1	\$3,000,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Shared Use Path							
Path	\$64.00	LF	6437	\$411,968.00			
Environmental Mitigation	\$20,598.40	LS	1	\$20,598.40	5% roadway total		
Landscaping							
Buffer	\$360.00	LF	6437	\$2,317,320.00			
Construction Phase Total (1)				\$5,749,886.40			
Stormwater							
Stormwater	\$574,988.64	LS	1	\$574,988.64	10% phase total (1)		
Construction Phase Total (2)				\$6,324,875.04			
Mobilization							
Mobilization	\$505,990.00	LS	1	\$505,990.00	8% phase total (2)		
Construction Phase Total (3)				\$6,830,865.04			
Construction Phase Total				\$6,830,865.04			
Preliminary Contingency (40%)				\$2,732,346.02			
Alternative Total				\$9,563,211.06			

Alternative 2 - Planning Level Cost Estimates

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 6140ft	
Roadway Full Width						Bridge Length	1175
Roadway	\$388.00	LF	4865	\$1,887,620.00		Shared Use Path	0
Environmental Mitigation	\$94,381.00	LS	1	\$94,381.00	5% roadway total	Roadway Full Width	4865
Roadway Taper						Roadway Taper	100
Taper	\$304.00	LF	100	\$30,400.00			
Environmental Mitigation	\$1,520.00	LS	1	\$1,520.00	5% roadway total		
Bridge							
Bridge	\$18,000,000.00	LS	1	\$18,000,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	1175	\$163,325.00			
Environmental Mitigation	\$8,166.25	LS	1	\$8,166.25	5% roadway total		
Shared Use Path							
Path	\$64.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Landscaping							
Buffer	\$360.00	LF	1175	\$423,000.00			
Construction Phase Total (1)				\$20,608,412.25			
Stormwater							
Stormwater	\$2,060,841.23	LS	1	\$2,060,841.23	10% phase total (1)		
Construction Phase Total (2)				\$22,669,253.48			
Mobilization							
Mobilization	\$1,813,540.28	LS	1	\$1,813,540.28	8% phase total (2)		
Construction Phase Total (3)				\$24,482,793.75			
Construction Phase Total				\$24,482,793.75			
Preliminary Contingency (40%)				\$9,793,117.50			
Alternative Total				\$34,275,911.25			

Alternative 3 North - Planning Level Cost Estimate

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 6501ft	
Roadway Full Width						Bridge Length	1275
Roadway	\$388.00	LF	5106	\$1,981,128.00		Shared Use Path	0
Environmental Mitigation	\$99,056.40	LS	1	\$99,056.40	5% roadway total	Roadway Full Width	5106
Roadway Taper						Roadway Taper	120
Taper	\$304.00	LF	120	\$36,480.00			
Environmental Mitigation	\$1,824.00	LS	1	\$1,824.00	5% roadway total		
Bridge							
Bridge	\$20,000,000.00	LS	1	\$20,000,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	1275	\$177,225.00			
Environmental Mitigation	\$8,861.25	LS	1	\$8,861.25	5% roadway total		
Shared Use Path							
Path	\$64.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Landscaping							
Buffer	\$360.00	LF	1275	\$459,000.00			
Construction Phase Total (1)				\$22,763,574.65			
Stormwater							
Stormwater	\$2,276,357.47	LS	1	\$2,276,357.47	10% phase total (1)		
Construction Phase Total (2)				\$25,039,932.12			
Mobilization							
Mobilization	\$2,003,194.57	LS	1	\$2,003,194.57	8% phase total (2)		
Construction Phase Total (3)				\$27,043,126.68			
Construction Phase Total				\$27,043,126.68			
Preliminary Contingency (40%)				\$10,817,250.67			
Alternative Total				\$37,860,377.36			

Alternative 3 South - Planning Level Cost Estimate

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 6515ft	
Roadway Full Width						Bridge Length	1075
Roadway	\$388.00	LF	5340	\$2,071,920.00		Shared Use Path	0
Environmental Mitigation	\$103,596.00	LS	1	\$103,596.00	5% roadway total	Roadway Full Width	5340
Roadway Taper						Roadway Taper	100
Taper	\$304.00	LF	100	\$30,400.00			
Environmental Mitigation	\$1,520.00	LS	1	\$1,520.00	5% roadway total		
Bridge							
Bridge	\$16,000,000.00	LS	1	\$16,000,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	1075	\$149,425.00			
Environmental Mitigation	\$7,471.25	LS	1	\$7,471.25	5% roadway total		
Shared Use Path							
Path	\$64.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Landscaping							
Buffer	\$360.00	LF	1075	\$387,000.00			
Construction Phase Total (1)				\$18,751,332.25			
Stormwater							
Stormwater	\$1,875,133.23	LS	1	\$1,875,133.23	10% phase total (1)		
Construction Phase Total (2)				\$20,626,465.48			
Mobilization							
Mobilization	\$1,650,117.24	LS	1	\$1,650,117.24	8% phase total (2)		
Construction Phase Total (3)				\$22,276,582.71			
Construction Phase Total				\$22,276,582.71			
Preliminary Contingency (40%)				\$8,910,633.09			
Alternative Total				\$31,187,215.80			

Alternative 4 North - Planning Level Cost Estimate

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 5993ft
Roadway Full Width						Bridge Length 285
Roadway	\$388.00	LF	5648	\$2,191,424.00		Shared Use Path 0
Environmental Mitigation	\$109,571.20	LS	1	\$109,571.20	5% roadway total	Roadway Full Width 5648
Roadway Taper						Roadway Taper 60
Taper	\$304.00	LF	60	\$18,240.00		
Environmental Mitigation	\$912.00	LS	1	\$912.00	5% roadway total	
Bridge						
Bridge	\$4,000,000.00	LS	1	\$4,000,000.00		
Bridge Roadway						
Roadway	\$139.00	LF	285	\$39,615.00		
Environmental Mitigation	\$1,980.75	LS	1	\$1,980.75	5% roadway total	
Shared Use Path						
Path	\$64.00	LF	0	\$0.00		
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total	
Landscaping						
Buffer	\$360.00	LF	285	\$102,600.00		
Construction Phase Total (1)				\$6,464,342.95		
Stormwater						
Stormwater	\$646,434.30	LS	1	\$646,434.30	10% phase total (1)	
Construction Phase Total (2)				\$7,110,777.25		
Mobilization						
Mobilization	\$568,862.18	LS	1	\$568,862.18	8% phase total (2)	
Construction Phase Total (3)				\$7,679,639.42		
Construction Phase Total				\$7,679,639.42		
Preliminary Contingency (40%)				\$3,071,855.77		
Alternative Total				\$10,751,495.19		

Alternative 4 South - Planning Level Cost Estimate

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 5950ft	
Roadway Full Width						Bridge Length	485
Roadway	\$388.00	LF	5385	\$2,089,380.00		Shared Use Path	0
Environmental Mitigation	\$104,469.00	LS	1	\$104,469.00	5% roadway total	Roadway Full Width	5385
Roadway Taper						Roadway Taper	80
Taper	\$304.00	LF	80	\$24,320.00			
Environmental Mitigation	\$1,216.00	LS	1	\$1,216.00	5% roadway total		
Bridge							
Bridge	\$7,000,000.00	LS	1	\$7,000,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	485	\$67,415.00			
Environmental Mitigation	\$3,370.75	LS	1	\$3,370.75	5% roadway total		
Shared Use Path							
Path	\$64.00	LF	0	\$0.00			
Environmental Mitigation	\$0.00	LS	1	\$0.00	5% roadway total		
Landscaping							
Buffer	\$360.00	LF	485	\$174,600.00			
Construction Phase Total (1)				\$9,464,770.75			
Stormwater							
Stormwater	\$946,477.08	LS	1	\$946,477.08	10% phase total (1)		
Construction Phase Total (2)				\$10,411,247.83			
Mobilization							
Mobilization	\$832,899.83	LS	1	\$832,899.83	8% phase total (2)		
Construction Phase Total (3)				\$11,244,147.65			
Construction Phase Total				\$11,244,147.65			
Preliminary Contingency (40%)				\$4,497,659.06			
Alternative Total				\$15,741,806.71			

No Direct Connection Scenario - Planning Level Cost Estimate

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 3340 ft	
Roadway Full Width						Bridge Length	400
Roadway	\$388.00	LF	2580	\$1,001,040.00		Shared Use Path	0
Environmental Mitigation	\$50,052.00	LS	1	\$50,052.00	5% roadway total	Roadway Full Width	2580
Roadway Taper						Roadway Taper	60
Taper	\$304.00	LF	60	\$18,240.00			
Environmental Mitigation	\$912.00	LS	1	\$912.00	5% roadway total		
Bridge							
Bridge	\$6,120,000.00	LS	1	\$6,120,000.00			
Bridge Roadway							
Roadway	\$139.00	LF	400	\$55,600.00			
Environmental Mitigation	\$2,780.00	LS	1	\$2,780.00	5% roadway total		
Signal							
Signal	\$390,000.00	LS	1	\$390,000.00			
Landscaping							
Buffer	\$360.00	LF	2640	\$950,400.00			
Construction Phase Total (1)				\$8,589,024.00			
Stormwater							
Stormwater	\$858,902.40	LS	1	\$858,902.40	10% phase total (1)		
Construction Phase Total (2)				\$9,447,926.40			
Mobilization							
Mobilization	\$755,834.11	LS	1	\$755,834.11	8% phase total (2)		
Construction Phase Total (3)				\$10,203,760.51			
Construction Phase Total				\$10,203,760.51			
Preliminary Contingency (40%)				\$4,081,504.20			
Alternate Total				\$14,285,264.72			

Alternative 3 North Planning Level Cost Estimate - Increment on 137th Avenue

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 1100 ft
Roadway Full Width						
Roadway	\$388.00	LF	1100	\$426,800.00		
Environmental Mitigation	\$21,340.00	LS	1	\$21,340.00	5% roadway total	
Landscaping						
Buffer	\$360.00	LF	1100	\$396,000.00		
Construction Phase Total (1)				\$844,140.00		
Stormwater						
Stormwater	\$84,414.00	LS	1	\$84,414.00	10% phase total (1)	
Construction Phase Total (2)				\$928,554.00		
Mobilization						
Mobilization	\$74,284.32	LS	1	\$74,284.32	8% phase total (2)	
Construction Phase Total (3)				\$1,002,838.32		
Construction Phase Total				\$1,002,838.32		
Preliminary Contingency (40%)				\$401,135.33		
Alternate Total				\$1,403,973.65		

Alternative 4 South Planning Level Cost Estimates - Increment on 137th Avenue

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 1470 ft
Roadway Full Width						
Roadway	\$388.00	LF	1470	\$570,360.00		
Environmental Mitigation	\$28,518.00	LS	1	\$28,518.00	5% roadway total	
Landscaping						
Buffer	\$360.00	LF	1470	\$529,200.00		
Construction Phase Total (1)				\$1,128,078.00		
Stormwater						
Stormwater	\$112,807.80	LS	1	\$112,807.80	10% phase total (1)	
Construction Phase Total (2)				\$1,240,885.80		
Mobilization						
Mobilization	\$99,270.86	LS	1	\$99,270.86	8% phase total (2)	
Construction Phase Total (3)				\$1,340,156.66		
Construction Phase Total				\$1,340,156.66		
Preliminary Contingency (40%)				\$536,062.67		
Alternate Total				\$1,876,219.33		

Alternative 4 North Planning Level Cost Estimates - Increment on 137th Avenue

Item Description	Unit Price	Unit	Quantity	Total Cost	Assumptions	Total Length: 2140 ft
Roadway Full Width						
Roadway	\$388.00	LF	2140	\$830,320.00		
Environmental Mitigation	\$41,516.00	LS	1	\$41,516.00	5% roadway total	
Landscaping						
Buffer	\$360.00	LF	2140	\$770,400.00		
Construction Phase Total (1)				\$1,642,236.00		
Stormwater						
Stormwater	\$164,223.60	LS	1	\$164,223.60	10% phase total (1)	
Construction Phase Total (2)				\$1,806,459.60		
Mobilization						
Mobilization	\$144,516.77	LS	1	\$144,516.77	8% phase total (2)	
Construction Phase Total (3)				\$1,950,976.37		
Construction Phase Total				\$1,950,976.37		
Preliminary Contingency (40%)				\$780,390.55		
Alternate Total				\$2,731,366.92		