



Alternatives Analysis - Appendix B - Cost Estimate

Vancouver Office

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NW Lake Road and NW Sierra Street Intersection Improvements

ROM Project Cost Estimates

10/30/2023

Roundabout Option

PROJECT COSTS					
Item #	Description	Unit	Quantity	Unit Price (\$)	Total (\$)
1	ROW acquisition	L.S.	1	\$150,000	\$150,000
2	Survey/Design/Permitting/Public Involvement	L.S.	1	\$250,000	\$250,000
3	Construction	L.S.	1	-	\$1,650,000
	General Conditions	L.S.	1	\$350,000	\$350,000
	Road Improvements	L.S.	1	\$700,000	\$700,000
	Roundabout	L.S.	1	\$200,000	\$200,000
	Stormwater Treatment	L.S.	1	\$140,000	\$140,000
	Steep Slope Impacts/Retaining Walls	L.S.	1	\$260,000	\$260,000
4	Construction Management/Inspection	L.S.	1	\$90,000	\$90,000
Sub Total					\$2,140,000
Contingency (30%)					\$642,000
Escalation (6%)					\$333,840
TOTAL					\$3,115,840

Assumptions

1. Two years of escalation and an October 2024 construction bid date
2. Survey, design, permitting, and public involvement costs assumed at approximately 15% of construction
3. Construction management and inspection costs assumed at approximately 5% of construction
4. Right of way costs include ROW consultant services and easement and land purchase.
5. Assumes no federal or WSDOT funding for design or construction

Traffic Signal Option

PROJECT COSTS					
Item #	Description	Unit	Quantity	Unit Price (\$)	Total (\$)
1	TCE acquisition	L.S.	1	\$20,000	\$20,000
2	Survey/Design/Permitting/Public Involvement	L.S.	1	\$150,000	\$150,000
3	Construction				\$995,000
	General Conditions	L.S.	1	\$200,000	\$200,000
	Road Improvements	L.S.	1	\$305,000	\$305,000
	Traffic Signal Equipment, Poles, Foundations	L.S.	1	\$155,000	\$155,000
	Vehicle Detection, Preemption	L.S.	1	\$30,000	\$30,000
	Conduit, Wiring, Trenches, Junction Boxes	L.S.	1	\$110,000	\$110,000
	Stormwater Treatment	L.S.	1	\$50,000	\$50,000
	Retain Wall	L.S.	1	\$145,000	\$145,000
4	Construction Management/Inspection	L.S.	1	\$50,000	\$50,000
Sub Total					\$1,215,000
Contingency (30%)					\$364,500
Escalation (6%)					\$94,770
TOTAL					\$1,674,270

Assumptions

1. One year of escalation and an October 2024 construction bid date
2. Survey, design, permitting, and public involvement costs assumed at approximately 15% of construction
3. Construction management and inspection costs assumed at approximately 5% of construction
4. Right of way costs include ROW consultant services and easement and land purchase.
5. Assumes no federal or WSDOT funding for design or construction