

## Opinion (Estimate) of Probable Cost

	<b>Project No.</b>	<b>Date</b>
		December 14, 2016

**Project Name**  
I-5 / Slater Road Interchange Improvements - Alternative D

**Location**  
Ferndale, WA

**Owner/Client**  
Lummi Nation

**Estimated By:** Cameron Woodcock  
**Date:** 5/26/15

**Checked By:** Kirk Wilcox  
**Date:** 5/28/15

**Updated by:** H. Longfellow  
**Date:** 12/14/16

ITEM NO.	SPEC SECTION	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL COST
<b>ALT D - 6 ROUNDABOUTS</b>						
	1-04	Minor Change	1	FA	\$50,000.00	\$50,000.00
	1-07	SPCC Plan	1	LS	\$10,000.00	\$10,000.00
	2-01	Clearing and Grubbing	8.2	Acre	\$10,000.00	\$81,800.00
	2-02	Removal of Structure and Obstruction	1	LS	\$50,000.00	\$50,000.00
	2-02	Removing Asphalt Concrete Pavement	53,000	SY	\$6.00	\$318,000.00
	2-02	Removing Cement Conc. Sidewalk	800	SY	\$20.00	\$16,000.00
	2-02	Removing Cement Conc. Curb and Gutter	3,100	LF	\$4.00	\$12,400.00
	2-03	Roadway Excavation Incl. Haul	40,000	CY	\$20.00	\$800,000.00
	2-03	Channel Excavation Incl. Haul	20,000	CY	\$15.00	\$300,000.00
	2-03	Overexcavation for Unsuitable	15,000	CY	\$24.00	\$360,000.00
	2-03	Select Borrow incl. Haul	95,000	Ton	\$10.00	\$950,000.00
	4-04	Crushed Surfacing Top Course	2,100	Ton	\$22.00	\$46,200.00
	4-04	Crushed Surfacing Base Course	51,000	Ton	\$20.00	\$1,020,000.00
	5-04	HMA CL 1/2 In. PG 64-22	26,000	Ton	\$85.00	\$2,210,000.00
	5-04	Planing Bituminous Pavement	1,100	SY	\$2.50	\$2,750.00
	5-05	Textured Cement Concrete Truck Apron	1,200	SY	\$85.00	\$102,000.00
	5-05	Textured Commercial Concrete Splitter Island	4,000	SY	\$60.00	\$240,000.00
	6-01	Bridge Widening	5,760	SF	\$310.00	\$1,785,600.00
	7-02	Stream Box Culvert	350	LF	\$1,400.00	\$490,000.00
	7-04	Schedule A Storm Sewer Pipe 12 In. Diam.	17,000	LF	\$45.00	\$765,000.00
	7-04	Testing Storm Sewer Pipe	17,000	LF	\$3.00	\$51,000.00
	7-05	Catch Basin Type 1	170	Each	\$1,500.00	\$255,000.00
	8-01	Seeding, Fertilizing, and Mulching	13.7	Acre	\$5,000.00	\$68,500.00
	8-02	Top Soil Type A	6,000	CY	\$40.00	\$240,000.00
	8-02	Plant Selection Including Plant Establishment	18,000	SY	\$40.50	\$729,000.00
	8-03	Irrigation System	0	SY	\$11.25	\$0.00
	8-04	Cement Conc. Traffic Curb and Gutter	20,000	LF	\$25.00	\$500,000.00
	8-04	Roundabout Central Island Cement Concrete Curb	1,500	LF	\$35.00	\$52,500.00
	8-04	Roundabout Truck Apron Cem. Conc. Curb and Gutter	1,700	LF	\$30.00	\$51,000.00
	8-14	Cement Conc. Sidewalk	1,700	SY	\$35.00	\$59,500.00
	8-14	Pedestrian Crossing	22	Each	\$6,000.00	\$132,000.00
	8-20	Luminaire	79	Each	\$12,000.00	\$948,000.00
	8-20	Rectangular Rapid Flashing Beacon System, Complete	22	Each	\$20,000.00	\$440,000.00
	8-21	Permanent Signing	1	LS	\$150,000.00	\$150,000.00
	8-22	Plastic Yield Line Symbol	200	Each	\$35.00	\$7,000.00
	8-22	Plastic Traffic Arrow	75	Each	\$250.00	\$18,750.00
	8-22	Plastic Line	33,000	LF	\$1.50	\$49,500.00

<b>Subtotal of Calculated Items</b>		<b>\$13,361,500.00</b>
<b>Percentage Based Items:</b>		
Erosion and Sedimentation Control (3%)		\$400,845.00
Traffic Control/Maintenance of Traffic (5%)		\$668,075.00
Utilities (2%)		\$267,230.00
Miscellaneous Items (10%)		\$1,336,150.00
	<b>Subtotal:</b>	<b>\$16,033,800.00</b>
Mobilization: 10% of Construction total		\$1,603,380.00
subtotal		\$17,637,180.00
	Sales Tax (8.7%)	\$1,534,434.66
<b>Construction Total:</b>		<b>\$19,171,614.66</b>

Construction Engineering (10%)	\$1,763,718.00
Preliminary Engineering (12%)	\$2,116,461.60
R/W - Not Required	\$0.00
Environmental & Construction Permits	\$100,000.00
<b>TOTAL COST</b>	<b>\$23,151,794.26</b>