

MCKITTRICK PRELIMINARY ENGINEERING ESTIMATE - PREPARED BY CITY OF WENATCHEE, STEVE KING, P.E.

CITY OF WENATCHEE

OPINION OF PROBABLE COST - INFRA GRANT PREFERRED LAYOUT - PREPARED BY THE CITY OF WENATCHEE

FEBRUARY 2020

Item	Spec.	Description	Unit	1B - McKittrick Underpass/Miller Realignment		
				Qty	Unit Cost	Total
	1-04	Minor Change	EST	1	\$ 25,000.00	\$ 25,000
	1-05	Construction Surveying (1% of Const Subtotal)	LS	1	\$ 198,000.00	\$ 198,000
	1-05 SP	ADA Features Surveying	LS	1	\$ 10,000.00	\$ 10,000
	1-07	Training	HR	1,000	\$ 5.00	\$ 5,000
	1-07	SPCC Plan	LS	1	\$ 1,000.00	\$ 1,000
	1-07	Resolution of Utility Conflicts	EST	1	\$ 25,000.00	\$ 25,000
	1-07	Utility Potholing	EST	1	\$ 15,000.00	\$ 15,000
	1-08	Type B Progress Schedule	LS	1	\$ 7,500.00	\$ 7,500
	1-09	Mobilization	LS	1	\$ 1,186,000.00	\$ 1,186,000
	1-10	Project Temporary Traffic Control	LS	1	\$ 250,000.00	\$ 250,000
	1-10	Business Access Signs	EA	12	\$ 400.00	\$ 4,800
	2-01	Clearing and Grubbing	LS	1	\$ 25,000.00	\$ 25,000
	2-02	Removal of Structures and Obstructions	LS	1	\$ -	\$ -
	2-02	Sawcutting	LF	500	\$ 5.00	\$ 2,500
	2-03	Roadway Excavation Incl. Haul	CY	41,111	\$ 12.00	\$ 493,333
	2-03	Unsuitable Foundation Excavation Incl. Haul	CY	250	\$ 45.00	\$ 11,250
	2-03	Gravel Borrow Incl. Haul	CY	20	\$ 35.00	\$ 700
	2-05	Removal and Disposal of Contaminated Soil	EST	1	\$ 25,000.00	\$ 25,000
	2-09	Shoring or Extra Excavation, Class B	LS	1	\$ 75,000.00	\$ 75,000
	4-04	Crushed Surfacing Top Course	TON	13,502	\$ 30.00	\$ 405,047
	5-04	HMA Cl. 1/2" PG 64-28	TON	4,232	\$ 100.00	\$ 423,188
	5-04	Temporary Pavement	TON	500	\$ 100.00	\$ 50,000
	5-04	Commercial HMA	TON	270	\$ 100.00	\$ 27,000
	5-05	Cement Concrete Pavement	CY	300	\$ 300.00	\$ 90,000
	6-02 SP	Underpass Structure	LS	1	\$ 11,000,000.00	\$ 11,000,000
	6-03 SP	Bridge Mitigation Treatment	LS	1	\$ 250,000.00	\$ 250,000
	6-13	Structural Retaining Wall Over 4 Ft. Ht. Incl. Ex., Shoring, & Backfill	SF	7,200	\$ 110.00	\$ 792,000
	6-13	Structural Retaining Wall Less Than 4 Ft. Ht. Incl. Ex., Shoring, & Backfill	SF	700	\$ 75.00	\$ 52,500
	6-13 SP	Retaining Wall Mitigation Treatment	SF	7,200	\$ 12.00	\$ 86,400
	7-01	Drain Pipe for Walls	LF	3,500	\$ 25.00	\$ 87,500
	7-04	Stormwater Improvements - New	LS	1	\$ 350,000.00	\$ 350,000
	7-04	Stormwater Improvements - Modify	LS	1	\$ 220,000.00	\$ 220,000
	7-05	Adjust Catch Basin	EA	15	\$ 600.00	\$ 9,000
	7-05	Adjust Sanitary Sewer Manhole	EA	9	\$ 600.00	\$ 5,400
	7-09	Adjust Water Valve Box and Vaults	EA	9	\$ 800.00	\$ 7,200
	7-09	Relocate Existing Hydrant Assembly	EA	4	\$ 6,000.00	\$ 24,000
	7-09	Water System Relocation & Improvements	EST	1	\$ -	\$ -
	7-17	Sanitary Sewer System Relocation & Improvements	EST	1	\$ 300,000.00	\$ 300,000
	8-01	Erosion Control and Water Pollution Control	LS	1	\$ 20,000.00	\$ 20,000
	8-02	Landscaping Incl. Plants, Soil, & Mulch, Planter & Median Areas	SF	50,000	\$ 10.00	\$ 500,000
	8-02	Property Restoration	EST	1	\$ -	\$ -
	8-03	Automatic Irrigation System, Planter and Median Areas	SF	67,000	\$ 2.50	\$ 167,500
	8-04	Cement Concrete Traffic Curb and Gutter	LF	5,630	\$ 20.00	\$ 112,600
	8-06	Cement Conc. Driveway Entrance	SY	660	\$ 65.00	\$ 42,900
	8-07	Mountable Cement Conc. Traffic Curb	LF	1,000	\$ 30.00	\$ 30,000
	8-13	Adjust Monument Case and Cover	EA	3	\$ 500.00	\$ 1,500
	8-14	Cement Conc. Sidewalk	SY	45,040	\$ 40.00	\$ 1,801,600
	8-14	Cement Conc. Curb Ramp	EA	23	\$ 2,500.00	\$ 57,500
	8-14	Detectable Warning Surface	SF	200	\$ 45.00	\$ 9,000
	8-14 SP	Bus Shelter Footing, Conduit, & Infrastructure	EA	2	\$ 10,000.00	\$ 20,000
	8-20	Illumination System, Complete	LS	1	\$ 563,000.00	\$ 563,000
	8-20	Roundabout or Traffic Signal System, Complete, Full Intersection	EA	1	\$ 350,000.00	\$ 350,000
	8-20	Traffic Signal System, Midblock Crossing	EA	2	\$ 100,000.00	\$ 200,000
	8-20	Relocation of Existing Utilities, Electrical & Communication	EST	1	\$ 500,000.00	\$ 500,000
	8-21	Permanent Signing	LS	1	\$ 19,000.00	\$ 19,000
	8-21	Pedestrian Handrail	LF	0	\$ 100.00	\$ -
	8-21 SP	Visual Mitigation Features	LS	1	\$ 500,000.00	\$ 500,000
	8-22	Paint Line 4"	LF	11,260	\$ 1.50	\$ 16,890
	8-22	Paint Line 6"	LF	1,000	\$ 2.00	\$ 2,000
	8-22	Painted Wide Line 8"	LF	0	\$ 3.00	\$ -
	8-22	Painted Stop Line	LF	0	\$ 6.00	\$ -
	8-22	Painted Channelization Symbols	EA	100	\$ 300.00	\$ 30,000
	8-22	Painted Crosswalk Line	SF	500	\$ 6.00	\$ 3,000
	8-22	Temporary Pavement Markings	LF	1,000	\$ 0.50	\$ 500
	8-22 SP	Pavement Marking, MMA Green	SF	200	\$ 18.00	\$ 3,600
				Subtotal		\$ 21,490,000
				Contingency (10%)		\$ 2,149,000
				Opinion of Probable Cost for Construction (OPC-C)		\$ 23,639,000

OPINION OF PROBABLE COST - TOTAL PROJECT SUMMARY

MCKITTRICK PRELIMINARY ENGINEERING ESTIMATE - PREPARED BY CITY OF WENATCHEE, STEVE KING, P.E.

CITY OF WENATCHEE

OPINION OF PROBABLE COST - INFRA GRANT PREFERRED LAYOUT - PREPARED BY THE CITY OF WENATCHEE

FEBRUARY 2020

Item	Spec.	Description	Unit	1B - McKittrick Underpass/Miller Realignment		
				Qty	Unit Cost	Total
		Opinion of Probable Construction Cost (OPC-C)			\$	23,639,000
		Preliminary Engineering (15% of OPC-C)			\$	3,546,000
		Right of Way			\$	-
		Construction Engineering (12% of OPC-C)			\$	2,837,000
		Project Contingency			\$	3,002,200
		Total Estimated Project Cost			\$	33,024,200