

CONFLUENCE PARKWAY PRELIMINARY ENGINEERING
CITY OF WENATCHEE
OPINION OF PROBABLE COST - INFRA GRANT
FEBRUARY 20, 2020



Item	Spec.	Description	Unit	2A - Confluence Parkway South (South Limits to N. End Miller Underpass)			2B - Confluence Parkway Phase 2 (Hawley Street to North Limits)		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
	1-04	Minor Change	EST	1	\$ 50,000.00	\$ 50,000	1	\$ 50,000.00	\$ 50,000
	1-05	Construction Surveying (1% of Const Subtotal)	LS	1	\$ 286,000.00	\$ 286,000	1	\$ 286,000.00	\$ 286,000
	1-05 SP	ADA Features Surveying	LS	1	\$ 10,000.00	\$ 10,000	1	\$ 10,000.00	\$ 10,000
	1-07	Training	HR	1,000	\$ 5.00	\$ 5,000	1,000	\$ 5.00	\$ 5,000
	1-07	SPCC Plan	LS	1	\$ 1,000.00	\$ 1,000	1	\$ 1,000.00	\$ 1,000
	1-07	Resolution of Utility Conflicts	EST	1	\$ 25,000.00	\$ 25,000	1	\$ 25,000.00	\$ 25,000
	1-07	Utility Potholing	EST	1	\$ 15,000.00	\$ 15,000	1	\$ 10,000.00	\$ 10,000
	1-08	Type B Progress Schedule	LS	1	\$ 7,500.00	\$ 7,500	1	\$ 7,500.00	\$ 7,500
	1-09	Mobilization	LS	1	\$ 1,716,000.00	\$ 1,716,000	1	\$ 1,712,000.00	\$ 1,712,000
	1-10	Project Temporary Traffic Control	LS	1	\$ 1,168,000.00	\$ 1,168,000	1	\$ 621,000.00	\$ 621,000
	1-10	Business Access Signs	EA	11	\$ 400.00	\$ 4,400	10	\$ 400.00	\$ 4,000
	2-01	Clearing and Grubbing	LS	1	\$ 15,000.00	\$ 15,000	1	\$ 50,000.00	\$ 50,000
	2-02	Removal of Structures and Obstructions	LS	1	\$ 35,000.00	\$ 35,000	1	\$ 40,000.00	\$ 40,000
	2-02	Sawcutting	LF	7,100	\$ 5.00	\$ 35,500	9,100	\$ 5.00	\$ 45,500
	2-03	Roadway Excavation Incl. Haul	CY	55,200	\$ 12.00	\$ 662,400	25,700	\$ 12.00	\$ 308,400
	2-03	Unsuitable Foundation Excavation Incl. Haul	CY	250	\$ 45.00	\$ 11,250	250	\$ 45.00	\$ 11,250
	2-03	Gravel Borrow Incl. Haul	CY	100	\$ 35.00	\$ 3,500	95,900	\$ 10.00	\$ 959,000
	2-05	Removal and Disposal of Contaminated Soil	EST	1	\$ 25,000.00	\$ 25,000	1	\$ 25,000.00	\$ 25,000
	2-09	Shoring or Extra Excavation, Class B	LS	1	\$ 75,000.00	\$ 75,000	1	\$ 30,000.00	\$ 30,000
	4-04	Crushed Surfacing Top Course	TON	11,000	\$ 30.00	\$ 330,000	26,600	\$ 30.00	\$ 798,000
	5-04	HMA Cl. 1/2" PG 64-28	TON	9,000	\$ 100.00	\$ 900,000	21,100	\$ 100.00	\$ 2,110,000
	5-04	Temporary Pavement	TON	800	\$ 100.00	\$ 80,000	1,900	\$ 100.00	\$ 190,000
	5-04	Commercial HMA	TON	70	\$ 100.00	\$ 7,000	310	\$ 100.00	\$ 31,000
	5-05	Cement Concrete Pavement	CY	200	\$ 300.00	\$ 60,000	100	\$ 300.00	\$ 30,000
	6-02 SP	Underpass Structure	LS	1	\$ 14,000,000.00	\$ 14,000,000	0	\$ -	\$ -
	6-03 SP	Bridge Structure	LS	0	\$ -	\$ -	1	\$ 13,000,000.00	\$ 13,000,000
	6-03 SP	Bridge Mitigation Treatment	LS	0	\$ -	\$ -	1	\$ 1,000,000.00	\$ 1,000,000
	6-13	Structural Retaining Wall Over 4 Ft. Ht. Incl. Ex., Shoring, & Backfill	SF	57,700	\$ 100.00	\$ 5,770,000	23,800	\$ 110.00	\$ 2,618,000
	6-13	Structural Retaining Wall Less Than 4 Ft. Ht. Incl. Ex., Shoring, & Backfill	SF	700	\$ 75.00	\$ 52,500	0	\$ 75.00	\$ -
	6-13 SP	Retaining Wall Mitigation Treatment	SF	58,400	\$ 8.00	\$ 467,200	22,000	\$ 12.00	\$ 264,000
	7-01	Drain Pipe for Walls	LF	3,500	\$ 25.00	\$ 87,500	2,700	\$ 25.00	\$ 67,500
	7-04	Stormwater Improvements - New	LS	1	\$ 380,000.00	\$ 380,000	1	\$ 750,000.00	\$ 750,000
	7-04	Stormwater Improvements - Modify	LS	1	\$ 190,000.00	\$ 190,000	1	\$ 380,000.00	\$ 380,000
	7-05	Adjust Catch Basin	EA	13	\$ 600.00	\$ 7,800	4	\$ 600.00	\$ 2,400
	7-05	Adjust Sanitary Sewer Manhole	EA	8	\$ 600.00	\$ 4,800	2	\$ 600.00	\$ 1,200
	7-09	Adjust Water Valve Box and Vaults	EA	8	\$ 800.00	\$ 6,400	8	\$ 800.00	\$ 6,400
	7-09	Relocate Existing Hydrant Assembly	EA	4	\$ 6,000.00	\$ 24,000	2	\$ 6,000.00	\$ 12,000
	7-09	Water System Relocation & Improvements	EST	1	\$ 400,000.00	\$ 400,000	1	\$ 250,000.00	\$ 250,000

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	7-17	Sanitary Sewer System Relocation & Improvements	EST	1	\$ 500,000.00	\$ 500,000	1	\$ 25,000.00	\$ 25,000
	8-01	Erosion Control and Water Pollution Control	LS	1	\$ 20,000.00	\$ 20,000	1	\$ 60,000.00	\$ 60,000
	8-02	Landscaping Incl. Plants, Soil, & Mulch, Planter & Median Areas	SF	46,000	\$ 10.00	\$ 460,000	38,000	\$ 10.00	\$ 380,000
	8-02	Landscaping Incl. Plants, Soil, & Mulch, Berm Areas	SF	0	\$ 10.00	\$ -	35,000	\$ 8.00	\$ 280,000
	8-02	Landscaping Incl. Plants, Soil, & Mulch, Mitigation Feature Areas	SF	0	\$ 2.00	\$ -	27,200	\$ 2.00	\$ 54,400
	8-02	Property Restoration	EST	1	\$ 50,000.00	\$ 50,000	1	\$ 150,000.00	\$ 150,000
	8-03	Automatic Irrigation System, Planter and Median Areas	SF	46,000	\$ 2.50	\$ 115,000	38,000	\$ 2.50	\$ 95,000
	8-03	Automatic Irrigation System, Berm Areas	SF	0	\$ 2.00	\$ -	35,000	\$ 2.00	\$ 70,000
	8-03	Automatic Irrigation System, Mitigation Feature Areas	SF	0	\$ 2.00	\$ -	27,200	\$ 2.00	\$ 54,400
	8-04	Cement Concrete Traffic Curb and Gutter	LF	9,700	\$ 20.00	\$ 194,000	24,200	\$ 20.00	\$ 484,000
	8-06	Cement Conc. Driveway Entrance	SY	120	\$ 65.00	\$ 7,800	490	\$ 65.00	\$ 31,850
	8-07	Mountable Cement Conc. Traffic Curb	LF	2,800	\$ 30.00	\$ 84,000	0	\$ 30.00	\$ -
	8-11	Beam Guardrail Type 31	LF	0	\$ 40.00	\$ -	500	\$ 40.00	\$ 20,000
	8-11	Beam Guardrail Type 31 Terminal	EA	0	\$ 3,500.00	\$ -	2	\$ 3,500.00	\$ 7,000
	8-13	Adjust Monument Case and Cover	EA	3	\$ 500.00	\$ 1,500	5	\$ 500.00	\$ 2,500
	8-14	Cement Conc. Sidewalk	SY	6,500	\$ 40.00	\$ 260,000	7,200	\$ 40.00	\$ 288,000
	8-14	Cement Conc. Curb Ramp	EA	20	\$ 2,500.00	\$ 50,000	19	\$ 2,500.00	\$ 47,500
	8-14	Detectable Warning Surface	SF	100	\$ 45.00	\$ 4,500	100	\$ 45.00	\$ 4,500
	8-14 SP	Bus Shelter Footing, Conduit, & Infrastructure	EA	0	\$ 10,000.00	\$ -	2	\$ 10,000.00	\$ 20,000
	8-20	Illumination System, Complete	LS	1	\$ 1,230,000.00	\$ 1,230,000	1	\$ 1,240,000.00	\$ 1,240,000
	8-20	Traffic Signal System, Complete, Full Intersection	EA	4	\$ 350,000.00	\$ 1,400,000	3	\$ 350,000.00	\$ 1,050,000
	8-20	Traffic Signal System, Midblock Crossing	EA	0	\$ 100,000.00	\$ -	1	\$ 100,000.00	\$ 100,000
	8-20	Traffic Signal System, Modify Ex. Signal, Operational Impr. at Maple	EA	0	\$ 200,000.00	\$ -	0	\$ -	\$ -
	8-20	Relocation of Existing Utilities, Electrical & Communication	EST	0	\$ 250,000.00	\$ -	1	\$ 600,000.00	\$ 600,000
	8-21	Permanent Signing	LS	1	\$ 17,000.00	\$ 17,000	1	\$ 27,000.00	\$ 27,000
	8-21	Pedestrian Handrail	LF	0	\$ 100.00	\$ -	0	\$ 100.00	\$ -
	8-21 SP	Visual Mitigation Features	LS	1	\$ 480,000.00	\$ 480,000	1	\$ 300,000.00	\$ 300,000
	8-22	Paint Line 4"	LF	25,000	\$ 1.50	\$ 37,500	28,000	\$ 1.50	\$ 42,000
	8-22	Paint Line 6"	LF	700	\$ 2.00	\$ 1,400	21,000	\$ 2.00	\$ 42,000
	8-22	Painted Wide Line 8"	LF	2,100	\$ 3.00	\$ 6,300	1,070	\$ 3.00	\$ 3,210
	8-22	Painted Stop Line	LF	500	\$ 6.00	\$ 3,000	450	\$ 6.00	\$ 2,700
	8-22	Painted Channelization Symbols	EA	48	\$ 300.00	\$ 14,400	82	\$ 300.00	\$ 24,600
	8-22	Painted Crosswalk Line	SF	2,200	\$ 6.00	\$ 13,200	1,900	\$ 6.00	\$ 11,400
	8-22	Temporary Pavement Markings	LF	23,400	\$ 0.50	\$ 11,700	45,600	\$ 0.50	\$ 22,800
	8-22 SP	Pavement Marking, MMA Green	SF	400	\$ 18.00	\$ 7,200	0	\$ 18.00	\$ -
Subtotal						\$ 31,886,000			\$ 31,251,000
Contingency (15%)						\$ 4,783,000			\$ 4,688,000

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Opinion of Probable Cost for Construction (OPC-C)						\$ 36,669,000			\$ 35,939,000

OPINION OF PROBABLE COST - TOTAL PROJECT SUMMARY

	Opinion of Probable Construction Cost (OPC-C)			\$ 36,669,000			\$ 35,939,000
	Preliminary Engineering (15% of OPC-C)			\$ 5,500,000			\$ 5,391,000
	Environmental Permitting			\$ 500,000			\$ 2,200,000
	Right of Way			\$ 6,148,428			\$ 9,970,000
	Construction Engineering (12% of OPC-C)			\$ 4,400,000			\$ 4,313,000
	Estimated Mitigation Costs			\$ -			\$ 1,500,000
	Project Contingency (10%)			\$ 5,321,743			\$ 5,781,300
	Total Estimated Project Cost			\$ 58,539,171			\$ 65,094,300