Engineer's Estimate 7th Street West Extension (Bridge St. to Patterson Bridge Rd.) Rough Construction Cost

5/15/2020

Description of Improvements: This an arterial street connection between Patterson Bridge Rd. and Bridge Street. The street will partially follow an existing gravel access road, other portions will be constructed across a portion of the old Oregon Pine Sawmill site and based on this it is anticipated that there will be areas that need to be over excavated to remove organic material (bark, sawdust, etc) to create a solid base. The street construction will include two travel lanes, a sidewalk, road side parking for a portion of the street, and a waterline, fiber optic and power will be installed, creating loops for the systems. Drainage from the street and sidewalks will be routed into water quality/infiltration swales in the planter areas along the street.

Typical Section

25 ft. wide Paved Section

Length 4950 ft

3 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT		UNIT PRICE	TOT	AL PRICE
General						
Mobilization (7.5%)	1	LS		\$ 187,430.63	\$	187,430.63
Temp Traffic Control	1	LS	П	\$ 10,000.00	\$	10,000.00
Erosion, Sediment & Pollution Control	1	LS	П	\$ 60,000.00	\$	60,000.00
Clearing/Striping	1	LS	П	\$ 50,000.00	\$	50,000.00
Street						
Grading- Cut/Fill	5050	CY	Π	\$ 15.00	\$	75,750.00
Sawcut AC	150	LF	П	\$ 3.00	\$	450.00
HMAC	2605	Ton	П	\$ 135.00	\$	351,675.00
3"-0" Pit Run over-excavation fill	3250	CY	П	\$ 28.00	\$	91,000.00
3/4"-0" Base Rock / Shoulder Rock	1600	CY	П	\$ 37.00	\$	59,200.00
2"-0" Base Rock	2600	CY	П	\$ 32.00	\$	83,200.00
Geo-Textile Fabric	3000	SY	П	\$ 8.00	\$	24,000.00
Standard Curb	9980	LF	П	\$ 35.00	\$	349,300.00
Concrete S/W	25000	SF	\square	\$ 8.50	\$	212,500.00
Street Lights	40	EA	П	\$ 4,500.00	\$	180,000.00
Street Trees	100	EA	\square	\$ 275.00	\$	27,500.00
Landscaping Top Soil	1250	CY	П	\$ 40.00	\$	50,000.00
Landscaping & Tree Irrigation System	1	LS	П	\$ 50,000.00	\$	50,000.00
Pavement / Curb Markings	1	LS		\$ 7,500.00	\$	7,500.00
Bus Shelter	2	EA	Π	\$ 12,000.00	\$	24,000.00
Waterlines			\square			
8" C-900	4300	LF	Π	\$ 55.00	\$	236,500.00
6" D.I.	110	LF	\square	\$ 50.00	\$	5,500.00
8" Bend	9	EA.	П	\$ 500.00	\$	4,500.00
8" x 8" Tees	1	EA.	\square	\$ 600.00	\$	600.00
8" x 6" Tees	9	EA.	П	\$ 550.00	\$	4,950.00
Gate Valves	14	EA.	П	\$ 900.00	\$	12,600.00
Fire Hydrant	9	EA.	П	\$ 4,250.00	\$	38,250.00
Storm Drain				•		
Curb Inlet	40	EA		\$ 3,200.00	\$	128,000.00
Misc. Utilities (Power, Irrigation, Fiber-optics, etc) in Cor	mmon Trench			•		
Utility Vaults	24	EA	Π	\$ 2,500.00	\$	60,000.00
6" HDPE Irrigation (Recycled Water)	5050	LF	\square	\$ 40.00	\$	202,000.00
Irrigation Valves	10	EA	Ħ	\$ 800.00	\$	8,000.00
3" Conduit	10100	LF	Ħ	\$ 12.00	\$	121,200.00
2" Conduit	10100	LF	†	\$ 9.00	\$	90,900.00
		(Con	truction Total	\$	2,806,505.63

Construction Contingency (10%)	\$ 285,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (12%)	\$ 335,000.00
Misc. Reports (Geo-tech, Environmental, Etc) (2.5%)	\$ 71,000.00
Topography Survey, ROW Survey, Construction Staking (5%)	\$ 141,000.00
Legal & Administration (1%)	\$ 30,000.00

Project Estimate Total \$ 3,668,505.63

Engineer's Estimate Innovation Gateway Industrial Park & Government Entry Road **Rough Construction Cost**

5/15/2020

Description of Improvements: Government Entry Road will be extended to provide access to a 12 lot Industrial Park and then continue up to the existing Valley View Road, direct access to housing development for employees. Government Entry Road will follow an existing dirt access road/utility easement, using cut/fill of the area to increase the width. Iron Triangle Place will be constructed through a site previous used as a yard for a logging/construction company, the site is level and will require minimal grading. The public utilities are currently installed along Govenment Entry Road, new private utilites and drainage culverts will be constructed. Iron Triangle Place is a new street so all of the utilities will need to be install; sewer, water, power and fiber optic. Also a supply line will be provide to each lot, providing recycled wastewater for industrial use and/or fire protection. The road system will use road side ditches to route runoff to a water quality/infiltration area.

Typical Section - Government Entry Road (Sta 3+00-14+50)	Length
25 ft. wide Paved Section	1500 ft
3 in. of HMAC over	
4 in. of 3/4"-0" Crushed Rock Base over	
8 in. of 2"-0 Crushed Base Rock	
Typical Section - Government Entry Road (Sta 0+00-3+00)	Length
25-30 ft. wide Paved Section	300 ft
Typical Section - Iron Triangle Place	Length
35 ft. wide Paved Section	1300 ft
4 in. of HMAC over	
4 in. of 3/4"-0" Crushed Rock Base over	
8 in of 2"-0 Crushed Base Rock	

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT	UNIT PRICE	ΤΟΤΑ	L PRICE
General					
Mobilization (7.5%)	1	LS	\$ 79,979.95	\$	79,979.95
Temp Traffic Control	1	LS	\$ 2,500.00	\$	2,500.00
Erosion, Sediment & Pollution Control	1	LS	\$ 25,000.00	\$	25,000.00
Clearing/Striping	1	LS	\$ 20,000.00	\$	20,000.00
Demo Structures	1	LS	\$ 10,500.00	\$	10,500.00
Street					
Grading- Cut/Fill	5800	CY	\$ 15.00	\$	87,000.00
Sawcut AC	150	LF	\$ 3.00	\$	450.00
HMAC	2080	Ton	\$ 135.00	\$	280,749.38
3/4"-0" Base Rock / Shoulder Rock	1500	CY	\$ 37.00	\$	55,500.00
2"-0" Base Rock	2400	CY	\$ 32.00	\$	76,800.00
Waterlines					
8" C-900	1390	LF	\$ 45.00	\$	62,550.00
6" D.I.	100	LF	\$ 60.00	\$	6,000.00
8" Bend	9	EA.	\$ 3,200.00	\$	28,800.00
8" x 8" Tees	2	EA.	\$ 4,500.00	\$	9,000.00
8" x 6" Tees	10	EA.	\$ 75.00	\$	750.00
8" Gate Valve	10	EA.	\$ 125.00	\$	1,250.00
6" Gate Valve	10	EA.	\$ 200.00	\$	2,000.0
Service & Meter	12	ea	\$ 750.00	\$	9,000.0
Fire Hydrant	10	EA.	\$ 300.00	\$	3,000.00

Recycled - Waterlines						
8" C-900	1840	LF		\$ 55.00	\$	101,200
4" C-900	380	LF		\$ 45.00	\$	17,100
8" Bend	3	EA.		\$ 500.00	\$	1,500
8" x 4" Tees	12	EA.		\$ 550.00	\$	6,600
8" Gate Valve	3	EA.		\$ 1,100.00	\$	3,300
4" Gate Valve	12	EA.		\$ 700.00	\$	8,400
End of Line Blowoff	2	ea		\$ 1,000.00	\$	2,000
Sanitary					-	
8" 3034 PVC	1840	LF		\$ 65.00	\$	119,600
6" 3034 PVC	380	LF		\$ 55.00	\$	20,900
М.Н.	4	EA		\$ 4,500.00	\$	18,000
Storm Drain						
Roadside Ditch	4700	EA		\$ 2.50	\$	11,750
36" Culvert	90	LF		\$ 200.00	\$	18,000
Water Quality/Infiltration Area	1200	CY		\$ 15.00	\$	18,000
Misc. Utilities (Power, Irrigation, Fiber-optics, etc)	in Common Trench					
Utility Vaults	12	EA		\$ 2,500.00	\$	30,000
3" Conduit	3200	LF		\$ 12.00	\$	38,400
2" Conduit	3200	LF		\$ 9.00	\$	28,800
			Contr	uction Total	\$	1,204,379.

Construction Contingency (10%)	\$ 121,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (12%)	\$ 144,000.00
Topography Survey, Construction Staking	\$ 22,000.00
Boundary Survey and Legal Description	\$ 12,500.00
Land Purchase	\$ 700,000.00
Environmental Site Assessment (Phase 1)	\$ 43,256.00
Environmental / Brownfield Redevelopement (Phase 2 ESA)	\$ 100,000.00
Legal & Administration (3%)	\$ 35,000.00

Project Estimate Total \$ 2,382,135.33

Engineer's Estimate Gateway Drive Rough Construction Cost 5/15/2020

Description of Improvements: This is a new connector street that efficiently connects the traffic from Government Entry Road and 7th Street. The roadway will climb from the valley floor approximately 50 ft over 1040 linear feet and connect with Government Entry Road. The street will be constructed with cut/fill of the project area and imported fill materail. The existing drainageway will be crossed with a fill over a culvert. Also as part of the road construction water, fiber optics and power will looped between Government Entry Road and 7th Street creating redundent loops and more reliable systems.

Typical Section

Length 1040 ft

25 ft. wide Paved Section

3 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT	UNIT PRICE	ΤΟΤΑ	L PRICE
General					
Mobilization (7.5%)	1	LS	\$ 27,922.50	\$	27,922.5
Erosion, Sediment & Pollution Control	1	LS	\$ 7,500.00	\$	7,500.0
Clearing/Striping	1	LS	\$ 9,500.00	\$	9,500.0
Street					
Grading- Cut/Fill	6000	CY	\$ 15.00	\$	90,000.0
HMAC	475	Ton	\$ 135.00	\$	64,125.0
3/4"-0" Base Rock / Shoulder Rock	450	CY	\$ 37.00	\$	16,650.
2"-0" Base Rock	650	CY	\$ 32.00	\$	20,800.
Waterlines					
8" C-900	1050	LF	\$ 55.00	\$	57,750.
6" D.I.	30	LF	\$ 50.00	\$	1,500.
8" Bend	4	EA.	\$ 500.00	\$	2,000.
8" x 8" Tees	1	EA.	\$ 600.00	\$	600.
8" x 6" Tees	3	EA.	\$ 550.00	\$	1,650.
8" Gate Valve	2	EA.	\$ 1,100.00	\$	2,200.
6" Gate Valve	3	EA.	\$ 900.00	\$	2,700.
Fire Hydrant	3	EA.	\$ 4,250.00	\$	12,750.
Storm Drain					
48" Culvert	120	LF	\$ 300.00	\$	36,000.
Misc. Utilities (Power, Irrigation, Fiber-optics, etc) in	Common Trench		•	•	
Utility Vaults	8	EA	\$ 2,500.00	\$	20,000.
3" Conduit	2075	LF	\$ 12.00	\$	24,900.
2" Conduit	2075	LF	\$ 9.00	\$	18,675.
	· · ·	C	ontruction Total	\$	417,222.

Construction Contingency (10%)	\$ 42,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (12%)	\$ 51,000.00
Topography Survey, ROW Survey, Construction Staking (7.5%)	\$ 32,000.00
Legal & Administration (2.5%)	\$ 10,500.00

Project Estimate Total \$ 552,722.50

Engineer's Estimate Ironwood Estates Street Improvements Rough Construction Cost

5/15/2020

Description of Improvements: This includes the expansion of streets and utilities for Ironwood Estates, to develope approximately 15.2 Acres - 17 single family residential lots and 9.83 Acres - 29 multi family lots. The existing Phase I of Ironwood Estates has provide stubs for the sewer, water and power to this property. Fiber-optics is proposed to be extend to existing lots in the areas and will also be provided to these lots. The property is on a hillside and roads be graded to minimize impact and balance the cut/fills as much as possible. As part of the road construction all the utilities (sewer, water, storm and private utilities) will be installed prior to construction of the pavement. A roadside ditch and cross-road culverts will divert runoff way from future structures and into the existing drainages. The existing drainages are very seasonal, only high rainfall or snow melt create flow in these drainages, for a limited amout of time. Prior Development and mining activities from when the Valley was dredged have stoped any direct surface flow of these drainages to the John Day River.

Length

ft

4200

Typical Section

25 ft. wide Paved Section

3 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT	UNIT PRICE	ТОТ	AL PRICE
General					
Mobilization (7.5%)	1	LS	\$ 135,190.03	\$	135,190.03
Erosion, Sediment & Pollution Control (2.5%)	1	LS	\$ 45,063.34	\$	45,063.34
Clearing/Striping (2.0%)	1	LS	\$ 36,050.68	\$	36,050.68
Street	•				
Grading- Cut/Fill	27300	CY	\$ 15.00	\$	409,500.00
Sawcut AC	140	LF	\$ 3.00	\$	420.00
HMAC	2000	Ton	\$ 135.00	\$	270,033.75
3/4"-0" Base Rock / Shoulder Rock	1600	CY	\$ 37.00	\$	59,200.00
2"-0" Base Rock	2600	CY	\$ 32.00	\$	83,200.00
Waterlines	•				
8" C-900	3156	LF	\$ 55.00	\$	173,580.00
6" D.I.	100	LF	\$ 50.00	\$	5,000.00
8" Bend	9	EA.	\$ 500.00	\$	4,500.00
8" x 8" Tees	2	EA.	\$ 600.00	\$	1,200.0
8" x 6" Tees	10	EA.	\$ 550.00		5,500.0
8" Gate Valve	10	EA.	\$ 1,100.00	\$	11,000.00
6" Gate Valve	10	EA.	\$ 900.00	\$	9,000.0
Service & Meter	46	ea	\$ 750.00	\$	34,500.0
Fire Hydrant	10	EA.	\$ 4,250.00		42,500.0
Sanitary	•	•	••		
8" 3034 PVC	3130	LF	\$ 65.00	\$	203,450.0
4" 3034 PVC	1850	LF	\$ 45.00	\$	83,250.0
Lift Station	1	LS	\$ 80,000.00		80,000.0
48" Manhole	19	EA	\$ 4,500.00		85,500.0
Storm Drain					
36" Culvert	80	LF	\$ 200.00	\$	16,000.0
12" Culvert	180	LF	\$ 60.00	\$	10,800.0
Roadside Ditch	4200	LF	\$ 2.50		10,500.0
Misc. Utilities (Power, Irrigation, Fiber-optics, etc) in Comm	on Trench	•		<u></u>	
Utility Vaults	11	EA	\$ 2,500.00	\$	27,500.0
3" Conduit	8400	LF	\$ 12.00	++-	100,800.0
2" Conduit	8400	LF	\$ 9.00		75,600.0
			Contruction Tota	I Ś	2,018,837.80

Construction Contingency (10%)	\$ 190,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (7.5%)	\$ 145,000.00
Misc. Reports (Geo-tech, Environmental, Etc) (2%)	\$ 40,000.00
Topography Survey, ROW Survey, Construction Staking (5%)	\$ 67,000.00
Legal & Administration (1%)	\$ 30,000.00

Project Estimate Total \$ 2,490,837.80

Engineer's Estimate Highway 26 Traffic Safety Improvements & Innovation Gateway Access Rough Construction Cost

5/15/2020

Description of Improvements: Highway 26 is to be improved, creating left-hand turn lane just west of Patterson Bridge Road, across all of the frontage of the Innovation Gateway, to the existing turn lane east of the Innovation Gateway. To create these the Highway will be widened 12 feet on the north side of the existing. This will require Fill, minimal cut, new crushed base rock, existing culverts are to be replace at the full width, and paved. Both ends of the project the existing pavement is to be ground down 2" and then an new asphalt overlay and new pavement markings. East of Patterson Bridge Road the same will be done for an additional 12 feet to create a right-hand turn lane. Also the Highway access, parking and access to the proposed 7th Street for the Innovation Gateway will be constructed, the parking area is currently an old paved surface that will be pulverized and used a base rock. Addition 3/4"-0" crushed base rock will be graded, compacted and then paved over. The Access to 7th street will be for pedestrians and maintenance vehicles only, this will be a 12 foot gravel surface and involve some rehabilitation of the existing bridge left over from the old sawmill operations.

rypice	al Section - Widened Area
12	ft. wide Paved Section

2 in. of HMAC overlay over

- 4 in. of HMAC over
- 6 in. of 3/4"-0" Crushed Rock Base over
- 10 in. of 2"-0 Crushed Base Rock

Typical Section - Existing Roadway Area

- 32 ft. wide Paved Section
- 2 in. of HMAC overlay over

Typical Section - Parking and Access

42000 sq.ft. of pavement

- 3 in. of HMAC overlay over
- 8 in. of 3/4"-0" Crushed Rock Base over

Description	QUAN.	UNIT	UNIT PRICE	ΤΟΤΑ	L PRICE
General					
Mobilization (10%)	1	LS	\$ 107,372.50	\$	107,372.5
Temp Traffic Control	1	LS	\$ 133,000.00	\$	133,000.0
Erosion, Sediment & Pollution Control	1	LS	\$ 50,000.00	\$	50,000.
Clearing/Striping	1	LS	\$ 20,000.00	\$	20,000.
Street					
Grading- Cut/Fill	5200	CY	\$ 15.00	\$	78,000.
Sawcut AC	2800	LF	\$ 3.00	\$	8,400.
Grinding Ex. Asphalt	500	SY	\$ 6.50	\$	3,250.
HMAC	2350	Ton	\$ 135.00	\$	317,250.
3/4"-0" Base Rock & Shoulder	725	CY	\$ 37.00	\$	26,825.
2"-0" Base Rock	1050	CY	\$ 32.00	\$	33,600.
Stripping	16000	LF	\$ 0.40	\$	6,400
Access & Parking					
Grading- Cut/Fill	1500	CY	\$ 15.00	\$	22,500
Grinding Ex. Asphalt	3000	SY	\$ 6.50	\$	19,500.
HMAC	800	Ton	\$ 140.00	\$	112,000
Standard Curb	2740	LF	\$ 35.00	\$	95,900.
3/4"-0" Base Rock	1050	CY	\$ 37.00	\$	38,850.
Bridge Rehab	1	LS	\$ 240,000.00	\$	240,000.
Stripping	1	LS	\$ 3,500.00	\$	3,500.
Storm Drain					
18" Culvert	180	LF	\$ 75.00	\$	13,500.

Length 2500 ft

Length 2500 ft

Water Quality / Infiltration Area	700	CY	\$	15.00	\$	10,500.00
Misc.						
Signage	200	SF	\$	50.00	\$	10,000.00
Guard Rail	150	LF	\$	225.00	\$	33,750.00
Contruction Total						1,384,097.50

	138,000.00
(ODOT Standards) Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (20%)	\$ 275,000.00
Misc. Reports (Geo-tech, Environmental, Etc) (2%)	\$ 70,000.00
Topography Survey, ROW Survey, Construction Staking (5%)	\$ 70,000.00
Legal & Administration (2.5%)	\$ 35,000.00
Quality Control & Testing (3%)	\$ 42,000.00

Project Estimate Total \$ 2,014,097.50

Engineer's Estimate Johnson Drive & Parking Improvements Rough Construction Cost

7/15/2020

Description of Improvements: Johnson DR access road provides access from HWY 26 to the greenhouse, public works department, and the future Community Gardens and Pavillion. Along with the access road, parking will be provide for these areas. The access road is currently an gravel access and much of this parking areas are roughly graded dredge tailings, this will be graded and compacted, noted thickness of crushed base rock, and then paved. All of the needed utilities exist. Runoff from the paved areas will be directed to flow into water quality / infiltration areas.

Typical Section

Length 640 ft

3.0 in. of HMAC over

25 ft. wide Paved Section

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Typical Section - Parking lots

33500 sq.ft. Paved Area

2.5 in. of HMAC over

8 in. of 3/4"-0" Crushed Rock Base & Recycled/Pulverized AC

Description	QUAN.	UNIT	UNIT PRICE	TOTA	L PRICE
General					
Mobilization (10%)	1	LS	\$ 31,314.30	\$	31,314.30
Temp Traffic Control	1	LS	\$ 2,000.00	\$	2,000.00
Erosion, Sediment & Pollution Control	1	LS	\$ 10,000.00	\$	10,000.00
Clearing/Striping	1	LS	\$ 5,000.00	\$	5,000.00
Street					
Grading- Cut/Fill	700	CY	\$ 15.00	\$	10,500.00
HMAC	300	Ton	\$ 135.00	\$	40,500.00
3/4"-0" Base Rock & Shoulder	575	CY	\$ 37.00	\$	21,275.00
2"-0" Base Rock	450	CY	\$ 32.00	\$	14,400.00
Driveway Approach (6" Conc)	612	CY	\$ 12.75	\$	7,803.00
Street Trees	13	CY	\$ 275.00	\$	3,575.00
Top Soil for plantings	26	CY	\$ 40.00	\$	1,040.00
Signage	40	CY	\$ 50.00	\$	2,000.00
Access & Parking					
Grading- Cut/Fill	1500	CY	\$ 15.00	\$	22,500.00
HMAC	535	Ton	\$ 140.00	\$	74,900.00
3/4"-0" Base Rock	950	CY	\$ 37.00	\$	35,150.00
Standard Curb	1850	LF	\$ 35.00	\$	64,750.00
Stripping	1	LS	\$ 3,500.00	\$	3,500.00
Storm Drain					
Water Quality / Infiltration Area	750	CY	\$ 15.00	\$	11,250.00
		C	ontruction Total	\$	361,457.30

Construction Contingency (10%)	Ş	36,000.00
(ODOT Standards) Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (7.5%)	\$	27,000.00
Misc. Reports (Geo-tech, Environmental, Etc) (2%)	\$	7,500.00
Topography Survey, ROW Survey, Construction Staking (3%)	\$	11,000.00
Legal & Administration (2.5%)	\$	9,000.00

Project Estimate Total \$ 451,957.30

Engineer's Estimate Charolais Heights Intersection Improvements Rough Construction Cost

5/15/2020

Description of Improvements: Charolais Heights Intersection is an existing intersection that over the years development has slowly added streets and driveways that have created an intersection that has five (5) streets that intersect at odd angles, different grades and different surfaces. This project relocates and aligns four (4) of the streets into a intersection that is at nearly right angles and levels the grade issues. The fifth street is a gravel County Road that only serves a few residents, will be relocated to create it's own tee intersection, away from the main intersection. All of the public utilites are existing and just have to adjust the elevation. The some of the private utilities exist overhead and will be re-located underground through this area. The drainage system is existing and will be adjusted to meet the new grades and slopes.

Length

ft

850

Typical Section

25 ft. wide Paved Section

3 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT	UNIT PRICE	TOTA	L PRICE
General			• •		
Mobilization (7.5%)	1	LS	\$ 16,284.0) \$	16,284.0
Temp Traffic Control	1	LS	\$ 25,000.0) \$	25,000.0
Erosion, Sediment & Pollution Control	1	LS	\$ 5,000.0) \$	5,000.0
Clearing/Striping	1	LS	\$ 10,000.0) \$	10,000.0
Demo/Pulverize - Ex. AC & Conc. Removal	1	LS	\$ 10,000.0) \$	10,000.0
Street	·	•			
Grading- Cut/Fill	1600	CY	\$ 15.0	D \$	24,000.
Sawcut AC	140	LF	\$ 3.0) \$	420.
HMAC	550	Ton	\$ 135.0) \$	74,250.
3/4"-0" Base Rock / Shoulder Rock	400	СҮ	\$ 37.0) \$	14,800.
2"-0" Base Rock	1050	СҮ	\$ 32.0) \$	33,600.
Standard Curb	500	LF	\$ 35.0) \$	17,500.
Street Trees	10	EA	\$ 275.0) \$	2,750.
Landscaping Top Soil	20	СҮ	\$ 40.0) \$	800.
Street Light	1	EA	\$ 4,500.0) \$	4,500.
Signage	50	SF	\$ 50.0) \$	2,500.
Waterlines	•		• •		
Adjust Water Valve Boxes	6	EA	\$ 250.0) \$	1,500.
Relocate Water Meter	1	EA	\$ 750.0) \$	750.
Relocate Fire Hydrant	1	EA	\$ 1,500.0) \$	1,500.
Sanitary	•		• •		
Adjust Sewer Manhole Rim	1	EA	\$ 1,500.0) \$	1,500.
Storm Drain	•				
Catchbasin	2	EA	\$ 3,200.0) \$	6,400.
Adjust Catchbasin Frame/Grate	2	EA	\$ 1,500.0) \$	3,000.
12" HDPE Storm Drain	30	LF	\$ 45.0) \$	1,350.
Misc. Utilities (Power, Irrigation, Fiber-optics, etc) in Com	mon Trench	•			
Utility Vaults	2	EA	\$ 2,500.0) \$	5,000.
3" Conduit	1000	LF	\$ 12.0		12,000.
2" Conduit	1000	LF	\$ 9.0		9,000.
	I		Contruction Tot	al \$	257,404.0

Construction Contingency (10%)	\$ 26,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (7.5%)	\$ 19,500.00
Topography Survey, ROW Survey, Construction Staking (5%)	\$ 12,500.00
Legal & Administration (2%)	\$ 5,000.00

Project Estimate Total \$ 320,404.00

Engineer's Estimate Intetrated Park System Transportation Infrastructure Rough Construction Cost

7/15/2020

Description of Improvements: This project creates an access trail from 7th Street to Canton Street an ties Hill Park parking and these streets together. The will be a 12' wide paved access from 7th street to a steel pedestrian bridge over the John Day River to the parking at Hill Park, and then completes the construction of Canton Street. Canton Street is currently graded, curbs are installed, and all utilities are existing, and it only requires fine tuning the base rock grading, paving and sidewalk construction. The Hill Park parking will need to be stripped, graded, base rock and paved. Sewer, water, power and fiber optics lines need to be installed prior to paving for future plans in the area. The storm runoff from the parking area will be routed to a water quality/infiltration area. The Bridge is a pre-fab steel structure, site work will include grading and a concrete foundation on each side of the river, the trail on both sides of the bridge will require grading, base rock and paving.

Typical Section - Canton Street

Length

37 ft. wide Paved Section

225 ft

3.0 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base (existing)

8 in. of 2"-0 Crushed Base Rock (existing)

Typical Section - Parking lots

2640 sq.ft. Paved Area (trail/access)

13840 sq.ft. Paved Area (parking)

2.5 in. of HMAC over

8 in. of 3/4"-0" Crushed Rock Base & Recycled/Pulverized AC

Description	QUAN.	UNIT	UNIT PRICE TOTAL PRICE
General			
Mobilization (10%)	1	LS	\$ 36,742.18 \$ 36,742.1
Temp Traffic Control	1	LS	\$ 40,000.00 \$ 40,000.0
Erosion, Sediment & Pollution Control	1	LS	\$ 12,000.00 \$ 12,000.0
Clearing/Striping	1	LS	\$ 8,000.00 \$ 8,000.0
Street			
HMAC	190	Ton	\$ 135.00 \$ 25,691.7
3/4"-0" Base Rock (finish grading)	40	CY	\$ 37.00 \$ 1,480.0
Sawcut AC	40	LF	\$ 3.00 \$ 120.0
Sidewalk	2800	SF	\$ 8.50 \$ 23,800.0
Driveway Approach (6" Conc)	400	CY	\$ 12.75 \$ 5,100.0
Street Trees	5	CY	\$ 275.00 \$ 1,375.0
Top Soil for plantings	10	CY	\$ 40.00 \$ 400.0
Street Light	1	EA	\$ 4,500.00 \$ 4,500.0
Signage	20	CY	\$ 50.00 \$ 1,000.0
Access & Parking			
Grading- Cut/Fill	150	CY	\$ 15.00 \$ 2,250.0
HMAC	265	Ton	\$ 140.00 \$ 37,100.0
3/4"-0" Base Rock	415	CY	\$ 37.00 \$ 15,355.0
Steel Ped/Access Bridge	1	LS	\$ 100,000.00 \$ 100,000.0
Foundation Ped/Access Bridge	1	LS	\$ 30,000.00 \$ 30,000.0
Standard Curb	790	LF	\$ 35.00 \$ 27,650.0
Street Trees	5	CY	\$ 275.00 \$ 1,375.0
Top Soil for plantings	10	CY	\$ 40.00 \$ 400.0
Street Light	3	EA	\$ 4,500.00 \$ 13,500.0
Stripping	1	LS	\$ 3,000.00 \$ 3,000.0

Waterlines							
8" C-900	300	LF	\$	55.00		\$	16,500.
6" D.I.	10	LF	\$	50.00		\$	500.
8" x 8" Tees	1	EA.	\$	600.00		\$	600
8" x 6" Tees	1	EA.	\$	550.00		\$	550
8" Gate Valve	1	EA.	\$	1,100.00		\$	1,100
6" Gate Valve	1	EA.	\$	900.00		\$	900
Service & Meter	1	ea	\$	750.00		\$	750
Fire Hydrant	1	EA.	\$	4,250.00		\$	4,250
Sanitary							
8" 3034 PVC	265	LF	\$	65.00		\$	17,225
4" 3034 PVC	40	LF	\$	45.00		\$	1,800
48" Manhole	1	EA	\$	4,500.00		\$	4,500
Misc. Utilities (Power, Irrigation, Fiber-optics, etc)	in Common Trench						
Utility Vaults	2	EA	\$	2,500.00		\$	5,000
3" Conduit	400	LF	\$	12.00		\$	4,800
2" Conduit	400	LF	\$	9.00		\$	3,600
Storm Drain	•	•	• •		-	•	
Water Quality / Infiltration Area	750	CY	\$	15.00		\$	11,250
	•	C	ontru	ction Total		\$	464,163.

Construction Contingency (10%)	\$ 46,500.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (10%)	\$ 46,500.00
Misc. Reports (Geo-tech, Environmental, Etc) (3%)	\$ 14,000.00
Topography Survey, ROW Survey, Construction Staking (3%)	\$ 14,000.00
Legal & Administration (2.5%)	\$ 11,500.00

Project Estimate Total \$ 596,663.96

Engineer's Estimate 7th Street Extension East and Holmstrom Road & Bridge **Rough Construction Cost**

5/14/2020

Description of Improvements: 7th Street will be extended from the end of the current pavement east approximately 450 lf, this portion is currently a well graveled access approximately 18'-20' wide. The street will then turn South, a bridge crossing over the John Day River and in approximatlay 1050 lf connect with the existing 3rd Street. As part of the road construction all the utilities (sewer, water, storm and private utilities) will be installed prior to construction of the pavement, curb and sidewalks. The proposed street will have minimal grading, with the largest amount likely needed for the bridge construction. Storm runoff will be controlled with curbing and gutter inlets, then routed to water quality/infiltration swales in the road side planter areas. Length

450

1066 3460 ft

ft

ft

Typical Section 24 ft. Paved Section 28-35 ft. Paved Section Std. Curbs

3 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT	UN	IT PRICE	TOT	AL PRICE
General					_	
Mobilization (10%)	1	LS	\$	316,292.50	\$	316,2
Erosion, Sediment & Pollution Control	1	LS	\$	80,000.00	\$	80,0
Clearing/Striping	1	LS	\$	35,000.00	\$	35,0
Street			`			
Grading- Cut/Fill	5500	CY	\$	15.00	\$	82,50
Sawcut AC	250	LF	\$	3.00	\$	7
HMAC	850	Ton	\$	135.00	\$	114,7
3/4"-0" Base Rock - AC and S/W	550	CY	\$	37.00	\$	20,35
2"-0" Base Rock	875	CY	\$	32.00	\$	28,00
Standard Curb	3460	LF	\$	35.00	\$	121,10
Concrete S/W	7400	SF	\$	8.50	\$	62,90
Street Trees	35	EA	\$	275.00	\$	9,62
Landscaping Top Soil	250	CY	\$	40.00	\$	10,00
Landscaping & Tree Irrigation System	1	LS	\$	4,000.00	\$	4,00
Pavement / Curb Markings	1	LS	\$	750.00	\$	75
Bus Shelter	1	EA	\$	12,000.00	\$	12,00
Bridge						
Estimated 130', two lane & one sidewalk	1	LS	\$	2,625,000.00	\$	2,625,00
Waterlines						
8" C-900	1525	LF	\$	55.00	\$	83,83
8" x 8" Tees	2	EA.	\$	600.00	\$	1,20
8" Bend	3	EA.	\$	500.00	\$	1,50
6" D.I.	70	LF	\$	50.00	\$	3,50
8" x 6" Tees	3	EA.	\$	550.00	\$	1,65
Gate Valves	6	EA.	\$	900.00	\$	5,40
Fire Hydrant	3	EA.	\$	4,250.00	\$	12,7
Sanitary						
8" 3034 PVC	445	LF	\$	65.00	\$	28,92
48" Manhole	3	EA	\$	4,500.00	\$	13,50
Storm Drain						
Curb Inlet	8	EA	\$	3,200.00	\$	25,60
Storm M.H.	2	EA.	\$	4,500.00	\$	9,00
12" HDPE	400	LF	\$	45.00	\$	18,00
12" Culvert	60	LF	\$	60.00	\$	3,60
Misc. Utilities (Power, Irrigation, Fiber-optics, etc) in Comm	non Trench					
Utility Vaults	4	EA	\$	2,500.00	\$	10,00
Irrigation System	1	LS	\$	20,000.00	\$	20,0
3" Conduit	3100	LF	\$	12.00	\$	37,2
2" Conduit	4650	LF	\$	9.00	\$	41,8
			Contr	uction Total	Ś	3,840,56

Construction Contingency (10%)	\$ 384,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (12.5%)	\$ 480,000.00
Misc. Reports (Geo-tech, Environmental, Etc) (2%)	\$ 77,000.00
Topography Survey, ROW Survey, Construction Staking (3%)	\$ 115,000.00
Legal & Administration (1%)	\$ 38,500.00

Project Estimate Total \$ 4,935,067.50

Engineer's Estimate Downtown Parking Improvements Rough Construction Cost

5/15/2020

Description of Improvements: East Side Parking Lot is an existing parking lot with asphalt that is in poor condition and it is being expanded on a parcel of property recently purchased by the City of John Day. The existing asphalt will be pulverized and mixed with new 3/4"-0" crushed base rock, the site will be graded to match the existing storm drainage system. A public restroom will be added for use by travellers. The current ADA area will be propery graded, signed and marked. The West Side Parking Lot is an existing gravel lot previously used for automobile sales. The site will be regraded to drain to a water quality/infiltration area to dispose of the site runoff. Additional 3/4"-0" crushed base rock will be added and the site paved. A public restroom with ADA access and parking will be included for travelers and the public downtown.

Typical Section - East Parking lot

10500 sq.ft. Paved Area

2.5 in. of HMAC over

8 in. of 3/4"-0" Crushed Rock Base & Recycled/Pulverized AC

Typical Section - West Parking lot

11100 sq.ft. Paved Area

2.5 in. of HMAC over

8 in. of 3/4"-0" Crushed Rock Base & Recycled/Pulverized AC

Description	QUAN.	UNIT	UNI	T PRICE	TOTA	L PRICE
General						
Mobilization (5%)	1	LS	\$	10,294.99	\$	10,294.
Temp Traffic Control	1	LS	\$	2,500.00	\$	2,500.
Erosion, Sediment & Pollution Control	1	LS	\$	2,500.00	\$	2,500
Clearing/Striping	1	LS	\$	1,500.00	\$	1,500
Demo/Pulverize - Ex. AC & Conc. Removal	1	LS	\$	3,500.00	\$	3,500
Parking						
Grading- Cut/Fill	150	CY	\$	15.00	\$	2,250
Sawcut AC	345	LF	\$	3.00	\$	1,035
HMAC	343	Ton	\$	135.00	\$	46,291
3/4"-0" Base Rock / Shoulder Rock	533	CY	\$	37.00	\$	19,733
Standard Curb	605	LF	\$	35.00	\$	21,175
Curb Stops	17	EA	\$	105.00	\$	1,785
Street Trees	27	EA	\$	275.00	\$	7,425
Landscaping Top Soil	54	CY	\$	40.00	\$	2,160
Street Light	4	EA	\$	4,500.00	\$	18,000
Signage	20	SF	\$	50.00	\$	1,000
Utililites						
Restroom - Pre-Fab Unit	2	EA	\$	35,000.00	\$	70,000
Adjust Manhole Rims	3	EA	\$	1,500.00	\$	4,500
Water Service & Meter	2	EA	\$	750.00	\$	1,500
4" 3034 PVC Sewer Service	105	LF	\$	45.00	\$	4,725
Power Extension	180	LF	\$	24.00	\$	4,320
	•	•	Contr	uction Total	\$	226,194.

Construction Contingency (10%)	\$ 26,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (12%)	\$ 31,000.00
Lot Line Adjustment, Construction Staking	\$ 6,500.00
Legal & Administration (2%)	\$ 2,500.00

Project Estimate Total \$ 292,194.83

Engineer's Estimate Mahogany Ridge Street Improvements Rough Construction Cost 5/15/2020

Description of Improvements: This includes the expansion of streets and utilities for Mahogany Ridge, to develope approximately 18.2 Acres - 11 multi family lots. Previous developement in the areas has stubs for the sewerand water property. Power and Fiberoptics are located overhead at HWY 26 and will be provided under ground along the streets. The property is on a hillside and roads be graded to minimize impact and balance the cut/fills as much as possible. As part of the road construction all the utilities (sewer, water, storm and private utilities) will be installed prior to construction of the pavement. A roadside ditch and cross-road culverts will divert runoff way from future structures and into the existing drainages. The existing drainages are very seasonal, only high rainfall or snow melt create flow in these drainages, for a limited amout of time. The drainage eventually connect to a culvert system on HWY 26.

Typical Section

25 ft. wide Paved Section

Length 4200 ft

4200

3 in. of HMAC over

4 in. of 3/4"-0" Crushed Rock Base over

8 in. of 2"-0 Crushed Base Rock

Description	QUAN.	UNIT	UNIT PRICE	TOTA	AL PRICE
General					
Mobilization (7.5%)	1	LS	\$ 107,973.38	\$	107,973.38
Temp Traffic Control	1	LS	\$ 12,000.00	\$	12,000.00
Erosion, Sediment & Pollution Control	1	LS	\$ 25,000.00	\$	25,000.00
Clearing/Striping	1	LS	\$ 20,000.00	\$	20,000.00
Street					
Grading- Cut/Fill	8500	CY	\$ 15.00	\$	127,500.00
Sawcut AC	70	LF	\$ 3.00	\$	210.00
HMAC	1600	Ton	\$ 135.00	\$	216,000.00
2"-0" C.R. Road Base	1970	CY	\$ 32.00	\$	63,040.00
3/4"-0" Base Rock	1400	CY	\$ 37.00	\$	51,800.00
Waterlines					
8" C-900	3129	LF	\$ 55.00	\$	172,095.00
6" D.I.	105	LF	\$ 50.00	\$	5,250.00
8" x 8" Tees	3	EA.	\$ 600.00	\$	1,800.00
8" x 6" Tees	7	EA.	\$ 550.00	\$	3,850.00
8" Bend	28	EA.	\$ 500.00	\$	14,000.00
8" Gate Valves	19	EA.	\$ 900.00	\$	17,100.00
6" Gate Valves	7	EA.	\$ 700.00	\$	4,900.00
Fire Hydrant	7	EA.	\$ 4,250.00	\$	29,750.00
End Line Blowoff	3	EA.	\$ 1,000.00	\$	3,000.00
Service Meter & Tap	39	EA.	\$ 750.00	\$	29,250.00
Sanitary					
8" 3034 PVC	2980	LF	\$ 65.00	\$	193,700.00
48" Manhole	23	EA	\$ 4,500.00	\$	103,500.00
Service	39	EA	\$ 750.00	\$	29,250.00
Service Line	880	EA	\$ 45.00	\$	39,600.00
Storm Drain			•		
Oversize Field Inlet	1	EA	\$ 4,500.00	\$	4,500.00
Storm M.H.	1	EA.	\$ 6,750.00	\$	6,750.00
30" HDPE	580	LF	\$ 120.00	\$	69,600.00
12" Culvert	120	LF	\$ 60.00	\$	7,200.00
Misc. Utilities (Power, Fiber-optics) in Common Trench					
Fiber Optics Vaults	12	EA	\$ 2,500.00	\$	30,000.00
Power Transformer/ Vault	12	EA	\$ 7,500.00	\$	90,000.00
3" Conduit	6000	LF	\$ 12.00	\$	72,000.00
2" Conduit	6000	LF	\$ 9.00	\$	54,000.00
		C	ontruction Total	\$	1,604,618.38

Construction Contingency (10%)	\$ 160,000.00
Prelim Engr, Design Engr, Bid Assistance, & Construction Oversite (7.5%)	\$ 115,000.00
Misc. Reports (Geo-tech, Environmental, Etc) (2%)	\$ 32,000.00
Final Plat, Topography Survey, ROW Survey, Construction Staking (4%)	\$ 65,000.00
Legal & Administration (1%)	\$ 24,000.00

Project Estimate Total \$ 2,000,618.38