

**S. 228th St. Union Pacific Railroad Grade Separation
Ground Improvements & Embankments**

Bid Opening: October 23, 2018, 11:00 AM

				1		2		3		4	
				Scarsella Bros., Inc. PO Box 68697 Seattle, WA 98168-0697		Rodarte Construction, Inc. 17 East Valley Highway E. Auburn, WA 98092		Active Construction Inc. PO Box 430 Puyallup, WA 98371		Johansen Construction Co. PO Box 674 Buckley, WA 98321	
TOTAL				\$7,760,955.20		\$8,379,049.50		\$8,650,267.77		\$8,759,828.10	
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE I: STREET											
1000	Mobilization	1	LS	770,000.00	\$770,000.00	761,000.00	\$761,000.00	1,108,220.77	\$1,108,220.77	574,780.00	\$574,780.00
1005	Clearing & Grubbing	1	LS	45,000.00	\$45,000.00	27,000.00	\$27,000.00	10,000.00	\$10,000.00	13,480.00	\$13,480.00
1010	* Remove Existing Asphalt Concrete Pavement	5,500	SY	8.00	\$44,000.00	9.50	\$52,250.00	6.50	\$35,750.00	16.50	\$90,750.00
1015	Remove Existing Reinforced Cement Concrete Driveway/ Pavement	380	SY	20.00	\$7,600.00	18.00	\$6,840.00	11.00	\$4,180.00	32.50	\$12,350.00
1020	Remove Cement Concrete Sidewalk	50	SY	10.00	\$500.00	16.00	\$800.00	18.00	\$900.00	9.50	\$475.00
1025	Remove Cement Concrete Curb & Gutter	1,600	LF	6.50	\$10,400.00	7.00	\$11,200.00	7.00	\$11,200.00	6.00	\$9,600.00
1030	* Remove Cement Concrete Extruded Curb	1,200	LF	2.00	\$2,400.00	6.00	\$7,200.00	4.00	\$4,800.00	4.85	\$5,820.00
1050	* Saw Cut Existing Asphalt Concrete Pavement	3,700	LF	3.00	\$11,100.00	2.75	\$10,175.00	2.00	\$7,400.00	5.85	\$21,645.00
1060	* Roadway Excavation Incl. Haul	250	CY	32.00	\$8,000.00	26.00	\$6,500.00	40.00	\$10,000.00	23.95	\$5,987.50
1065	* Gravel Borrow, Including Haul & Compaction	250	TON	21.30	\$5,325.00	24.00	\$6,000.00	36.00	\$9,000.00	29.70	\$7,425.00
1080	* Crushed Surfacing Top Course, 5/8" Minus	1,600	TON	25.00	\$40,000.00	26.00	\$41,600.00	41.00	\$65,600.00	29.35	\$46,960.00
1095	* HMA Class 1/2", PG58V-22	1,350	TON	130.00	\$175,500.00	145.00	\$195,750.00	150.00	\$202,500.00	227.00	\$306,450.00
1125	* Hot Plant Mix for Temporary Pavement Patch	130	TON	200.00	\$26,000.00	160.00	\$20,800.00	175.00	\$22,750.00	341.95	\$44,453.50
1130	Cement Conc. Pavement	25	CY	517.00	\$12,925.00	425.00	\$10,625.00	300.00	\$7,500.00	980.50	\$24,512.50
1205	Cement Concrete Curb & Gutter	260	LF	44.00	\$11,440.00	50.00	\$13,000.00	35.00	\$9,100.00	33.00	\$8,580.00
1210	* Cement Concrete Extruded Curb	1,550	LF	12.00	\$18,600.00	9.00	\$13,950.00	20.00	\$31,000.00	20.50	\$31,775.00
1270	Temporary 6 Foot Chain Link Fence	1,000	LF	6.00	\$6,000.00	8.00	\$8,000.00	2.80	\$2,800.00	7.50	\$7,500.00
1272	* Remove Fence & Gates	400	LF	5.00	\$2,000.00	5.00	\$2,000.00	6.00	\$2,400.00	14.75	\$5,900.00
1275	* Chain Link Fence Type 3	900	LF	25.10	\$22,590.00	27.00	\$24,300.00	21.00	\$18,900.00	25.65	\$23,085.00
1276	Single 6 Ft. Chain Link Gate	1	EA	980.00	\$980.00	1,100.00	\$1,100.00	1,100.00	\$1,100.00	1,080.00	\$1,080.00
1278	40 Foot Slide Chain Link Gate	1	EA	6,538.00	\$6,538.00	7,250.00	\$7,250.00	7,300.00	\$7,300.00	7,200.00	\$7,200.00
1279	60 Foot Slide Chain Link Gate	1	EA	8,790.00	\$8,790.00	9,500.00	\$9,500.00	9,800.00	\$9,800.00	9,700.00	\$9,700.00
1280	Double 14 Ft. Chain Link Gate	4	EA	1,180.00	\$4,720.00	1,250.00	\$5,000.00	1,300.00	\$5,200.00	1,300.00	\$5,200.00
1285	Stone Columns 6% Replacement Ground Improvement	560	SY	94.00	\$52,640.00	100.00	\$56,000.00	116.00	\$64,960.00	102.00	\$57,120.00
1290	Stone Columns 13% Replacement Ground Improvement	1,360	SY	203.00	\$276,080.00	218.00	\$296,480.00	225.00	\$306,000.00	215.00	\$292,400.00
1296	* Remove & Reset Existing Mailbox	1	EA	350.00	\$350.00	300.00	\$300.00	270.00	\$270.00	480.00	\$480.00
1315	Pothole Utilities	25	EA	500.00	\$12,500.00	500.00	\$12,500.00	500.00	\$12,500.00	580.00	\$14,500.00
1316	Project Sign Fabrication & Installation	2	EA	1,000.00	\$2,000.00	600.00	\$1,200.00	750.00	\$1,500.00	2,185.00	\$4,370.00
1320	Field Office	1	LS	10,000.00	\$10,000.00	30,000.00	\$30,000.00	7,500.00	\$7,500.00	19,175.00	\$19,175.00
1325	Temporary Fall Protection	1	LS	10,000.00	\$10,000.00	30,000.00	\$30,000.00	30,000.00	\$30,000.00	8,600.00	\$8,600.00
1330	Settlement Monitoring Trench	1,650	LF	20.00	\$33,000.00	18.00	\$29,700.00	15.00	\$24,750.00	37.45	\$61,792.50
1355	Minor Changes	1	CALC	30,000.00	\$30,000.00	30,000.00	\$30,000.00	30,000.00	\$30,000.00	30,000.00	\$30,000.00
1360	Existing Irrigation System Removal, Repair and/or Modification	1	FA	5,000.00	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$5,000.00
1365	Reimbursement for Third Party Damage	1	FA	50,000.00	\$50,000.00	50,000.00	\$50,000.00	50,000.00	\$50,000.00	50,000.00	\$50,000.00
1370	Training	800	HR	5.00	\$4,000.00	6.00	\$4,800.00	7.00	\$5,600.00	1.00	\$800.00
SCHEDULE I TOTAL				\$1,725,978.00		\$1,787,820.00		\$2,125,480.77		\$1,808,946.00	

S. 228th St. Union Pacific Railroad Grade Separation Ground Improvements & Embankments				1		2		3		4	
Bid Opening: October 23, 2018, 11:00 AM				Scarsella Bros., Inc. PO Box 68697 Seattle, WA 98168-0697		Rodarte Construction, Inc. 17 East Valley Highway E. Auburn, WA 98092		Active Construction Inc. PO Box 430 Puyallup, WA 98371		Johansen Construction Co. PO Box 674 Buckley, WA 98321	
TOTAL				\$7,760,955.20		\$8,379,049.50		\$8,650,267.77		\$8,759,828.10	
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE II: WATER											
2000	4" Connection to Existing Water Main	1	EA	2,700.00	\$2,700.00	1,500.00	\$1,500.00	2,650.00	\$2,650.00	2,785.00	\$2,785.00
2005	8" Connection to Existing Water Main	3	EA	4,400.00	\$13,200.00	3,500.00	\$10,500.00	4,250.00	\$12,750.00	2,900.00	\$8,700.00
2010	10" Connection to Existing Water Main	1	EA	4,025.00	\$4,025.00	2,500.00	\$2,500.00	4,500.00	\$4,500.00	10,120.00	\$10,120.00
2015	12" Connection to Existing Water Main	2	EA	1,970.00	\$3,940.00	3,500.00	\$7,000.00	4,250.00	\$8,500.00	6,140.00	\$12,280.00
2017	8" Connection to Existing Double Check Detector Assembly	2	EA	7,800.00	\$15,600.00	3,500.00	\$7,000.00	6,000.00	\$12,000.00	5,150.00	\$10,300.00
2019	4" Diameter Ductile Iron, CI 52 Water Main Pipe	25	LF	130.00	\$3,250.00	120.00	\$3,000.00	121.00	\$3,025.00	161.50	\$4,037.50
2025	8" Diameter Ductile Iron, CI 52 Water Main Pipe	550	LF	105.00	\$57,750.00	60.00	\$33,000.00	63.00	\$34,650.00	104.00	\$57,200.00
2032	8" Diameter Restrained Joint Ductile Iron, CI 52 Water Main Pipe	70	LF	165.00	\$11,550.00	200.00	\$14,000.00	200.00	\$14,000.00	224.00	\$15,680.00
2034	12" Diameter Restrained Joint Ductile Iron, CI 52 Water Main Pipe	620	LF	225.00	\$139,500.00	160.00	\$99,200.00	150.00	\$93,000.00	248.00	\$153,760.00
2045	8" Gate Valve, MJ x FL or MJ x MJ or FL x FL	2	EA	1,900.00	\$3,800.00	3,000.00	\$6,000.00	1,750.00	\$3,500.00	2,420.00	\$4,840.00
2050	12" Gate Valve, MJ x FL or MJ x MJ or FL x FL	20	EA	2,900.00	\$58,000.00	3,000.00	\$60,000.00	2,750.00	\$55,000.00	3,715.00	\$74,300.00
2052	16" Gate Valve, MJ x FL or MJ x MJ or FL x FL	2	EA	8,035.00	\$16,070.00	8,000.00	\$16,000.00	7,500.00	\$15,000.00	8,585.00	\$17,170.00
2057	12" Diameter Earthquake Resistant Ductile Iron, CI 52 Water Main Pipe	1,630	LF	232.80	\$379,464.00	225.00	\$366,750.00	175.00	\$285,250.00	280.00	\$456,400.00
2058	16" Diameter Earthquake Resistant Ductile Iron, CI 52 Water Main Pipe	405	LF	150.60	\$60,993.00	400.00	\$162,000.00	350.00	\$141,750.00	486.00	\$196,830.00
2059	12" Diameter Double Ball Flexible Expansion Joint	5	EA	10,820.00	\$54,100.00	13,000.00	\$65,000.00	11,250.00	\$56,250.00	10,290.00	\$51,450.00
2060	Replace Existing Valve Box Top Section & Lid	4	EA	1,000.00	\$4,000.00	500.00	\$2,000.00	450.00	\$1,800.00	315.00	\$1,260.00
2065	Replace Existing Valve Box Base Section	4	EA	900.00	\$3,600.00	550.00	\$2,200.00	450.00	\$1,800.00	225.00	\$900.00
2070	Valve Operating Nut Extender	18	EA	195.00	\$3,510.00	400.00	\$7,200.00	500.00	\$9,000.00	180.00	\$3,240.00
2080	Hydrant Assembly	7	EA	9,560.00	\$66,920.00	10,000.00	\$70,000.00	1,000.00	\$7,000.00	8,665.00	\$60,655.00
2090	2" Air Release Valve with Chamber	3	EA	12,525.00	\$37,575.00	11,000.00	\$33,000.00	10,000.00	\$30,000.00	10,750.00	\$32,250.00
2094	Remove Existing Air Release Valve & Chamber	1	EA	800.00	\$800.00	350.00	\$350.00	375.00	\$375.00	1,745.00	\$1,745.00
2105	Abandon Existing Water Service	5	EA	150.00	\$750.00	500.00	\$2,500.00	225.00	\$1,125.00	550.00	\$2,750.00
2107	Temporary Water Connections	1	LS	21,000.00	\$21,000.00	15,000.00	\$15,000.00	35,000.00	\$35,000.00	26,835.00	\$26,835.00
2110	Abandon & Fill Existing Water Main with CDF	60	CY	150.00	\$9,000.00	225.00	\$13,500.00	350.00	\$21,000.00	180.00	\$10,800.00
2115	Remove Existing Water Main	225	LF	20.00	\$4,500.00	50.00	\$11,250.00	23.00	\$5,175.00	18.00	\$4,050.00
2118	Service Connection 1" Diameter	4	EA	1,600.00	\$6,400.00	1,000.00	\$4,000.00	400.00	\$1,600.00	475.00	\$1,900.00
2120	Service Connection 1 1/2" Diameter	4	EA	1,725.00	\$6,900.00	1,200.00	\$4,800.00	700.00	\$2,800.00	605.00	\$2,420.00
2125	Service Connection 2" Diameter	1	EA	1,840.00	\$1,840.00	1,500.00	\$1,500.00	1,000.00	\$1,000.00	900.00	\$900.00
2145	Water Service Line 1" Diameter	210	LF	40.00	\$8,400.00	12.00	\$2,520.00	23.00	\$4,830.00	21.00	\$4,410.00
2150	Water Service Line 1 1/2" Diameter	220	LF	42.60	\$9,372.00	13.00	\$2,860.00	27.00	\$5,940.00	23.50	\$5,170.00
2155	Water Service Line 2" Diameter	50	LF	70.70	\$3,535.00	35.00	\$1,750.00	41.00	\$2,050.00	28.35	\$1,417.50
2205	1 1/2" Meter Setter	1	EA	1,610.00	\$1,610.00	2,000.00	\$2,000.00	1,400.00	\$1,400.00	1,485.00	\$1,485.00
2210	1" Meter Setter with Reduced Pressure Backflow Assembly	4	EA	2,215.00	\$8,860.00	2,800.00	\$11,200.00	2,300.00	\$9,200.00	2,055.00	\$8,220.00
2212	1 1/2" Meter Setter with Reduced Pressure Backflow Assembly	2	EA	3,900.00	\$7,800.00	5,000.00	\$10,000.00	4,000.00	\$8,000.00	3,700.00	\$7,400.00
2215	2" Meter Setter with Reduced Pressure Backflow Assembly	2	EA	4,700.00	\$9,400.00	6,000.00	\$12,000.00	5,000.00	\$10,000.00	4,355.00	\$8,710.00
2220	Meter Box for Up to 1" Diameter Service	4	EA	620.00	\$2,480.00	400.00	\$1,600.00	250.00	\$1,000.00	275.00	\$1,100.00
2225	Meter Box for 1 1/2 to 2" Diameter Service	5	EA	755.00	\$3,775.00	550.00	\$2,750.00	500.00	\$2,500.00	395.00	\$1,975.00
2230	Relocating Water Meter Assembly	1	EA	1,550.00	\$1,550.00	2,800.00	\$2,800.00	1,300.00	\$1,300.00	970.00	\$970.00
2235	Remove Existing Double Check Detector Assembly	2	EA	420.00	\$840.00	1,400.00	\$2,800.00	300.00	\$600.00	1,100.00	\$2,200.00

**S. 228th St. Union Pacific Railroad Grade Separation
Ground Improvements & Embankments**

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1
Scarsella Bros., Inc.
PO Box 68697
Seattle, WA 98168-0697

TOTAL \$7,760,955.20

2
Rodarte Construction, Inc.
17 East Valley Highway E.
Auburn, WA 98092

TOTAL \$8,379,049.50

3
Active Construction Inc.
PO Box 430
Puyallup, WA 98371

TOTAL \$8,650,267.77

4
Johansen Construction Co.
PO Box 674
Buckley, WA 98321

TOTAL \$8,759,828.10

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
2240	10" Double Check Detector Assembly	2	EA	46,625.00	\$93,250.00	65,000.00	\$130,000.00	47,500.00	\$95,000.00	41,195.00	\$82,390.00
2245	Electrical Service for Double Check Detector Assembly	1	FA	35,000.00	\$35,000.00	35,000.00	\$35,000.00	35,000.00	\$35,000.00	35,000.00	\$35,000.00
2255	* Shoring or Extra Excavation Class B	22,000	SF	0.50	\$11,000.00	0.25	\$5,500.00	0.23	\$5,060.00	1.25	\$27,500.00
2258	* Unsuitable Foundation Excavation Including Haul	85	CY	50.00	\$4,250.00	65.00	\$5,525.00	32.00	\$2,720.00	50.00	\$4,250.00
2260	* Foundation Material, Class I & II	200	TON	25.00	\$5,000.00	45.00	\$9,000.00	26.00	\$5,200.00	49.80	\$9,960.00
2275	* Pipe Zone Bedding	2,200	TON	20.00	\$44,000.00	25.00	\$55,000.00	41.00	\$90,200.00	34.65	\$76,230.00
2290	* Bank Run Gravel for Trench Backfill	4,700	TON	15.00	\$70,500.00	30.00	\$141,000.00	23.00	\$108,100.00	31.25	\$146,875.00
2295	Geotextile Fabric, Non-Woven	200	SY	5.00	\$1,000.00	3.00	\$600.00	4.00	\$800.00	6.00	\$1,200.00
2300	* Hot Plant Mix for Temporary Pavement Patch	110	TON	200.00	\$22,000.00	160.00	\$17,600.00	175.00	\$19,250.00	341.95	\$37,614.50
2305	24" O.D., 0.375" Thick Steel Casing	365	LF	180.00	\$65,700.00	205.00	\$74,825.00	285.00	\$104,025.00	325.00	\$118,625.00
2310	Remove Existing Water Meter	9	EA	1,000.00	\$9,000.00	650.00	\$5,850.00	66.00	\$594.00	220.00	\$1,980.00
2315	Remove Existing Hydrant Assembly	5	EA	500.00	\$2,500.00	750.00	\$3,750.00	450.00	\$2,250.00	1,345.00	\$6,725.00
2325	Minor Changes	1	CALC	25,000.00	\$25,000.00	25,000.00	\$25,000.00	25,000.00	\$25,000.00	25,000.00	\$25,000.00
2330	Remove Existing Valve Box Top Section & Lid	19	EA	50.00	\$950.00	135.00	\$2,565.00	41.00	\$779.00	255.00	\$4,845.00
SUB TOTAL					\$1,437,509.00		\$1,584,245.00		\$1,400,298.00		\$1,846,809.50
10% SALES TAX					\$143,750.90		\$158,424.50		\$140,029.80		\$184,680.95
SCHEDULE II TOTAL					\$1,581,259.90		\$1,742,669.50		\$1,540,327.80		\$2,031,490.45
SCHEDULE IV: STORM SEWER											
4000	Ductile Iron Storm Sewer Pipe, 12" Diameter	550	LF	120.00	\$66,000.00	70.00	\$38,500.00	60.00	\$33,000.00	105.75	\$58,162.50
4080	Catch Basin, Type 1	4	EA	1,340.00	\$5,360.00	1,500.00	\$6,000.00	1,300.00	\$5,200.00	1,600.00	\$6,400.00
4105	Concrete Inlet	4	EA	1,245.00	\$4,980.00	1,500.00	\$6,000.00	1,500.00	\$6,000.00	1,180.00	\$4,720.00
4120	Vaned Catch Basin Frame & Grate	8	EA	750.00	\$6,000.00	400.00	\$3,200.00	600.00	\$4,800.00	605.00	\$4,840.00
4130	Abandon Existing Storm Sewer Pipe	1	EA	1,000.00	\$1,000.00	250.00	\$250.00	350.00	\$350.00	495.00	\$495.00
4140	Remove Existing Storm Sewer Pipe or Culvert	110	LF	20.00	\$2,200.00	40.00	\$4,400.00	24.00	\$2,640.00	10.60	\$1,166.00
4145	Remove Existing Catch Basin or Manhole	3	EA	500.00	\$1,500.00	400.00	\$1,200.00	550.00	\$1,650.00	1,140.00	\$3,420.00
4147	Storm Sewer Pipe Connection	1	EA	1,000.00	\$1,000.00	1,500.00	\$1,500.00	600.00	\$600.00	1,325.00	\$1,325.00
4175	* Crushed Surfacing Top Course, 5/8" Minus	20	TON	25.00	\$500.00	26.00	\$520.00	41.00	\$820.00	29.35	\$587.00
4180	CCTV Video Inspection of 60" Storm Drain Pipe	1	LS	4,500.00	\$4,500.00	5,000.00	\$5,000.00	2,500.00	\$2,500.00	3,355.00	\$3,355.00
SCHEDULE IV TOTAL					\$93,040.00		\$66,570.00		\$57,560.00		\$84,470.50
SCHEDULE V: TRAFFIC CONTROL											
5005	Traffic Control Labor	4,500	HR	66.80	\$300,600.00	70.00	\$315,000.00	63.00	\$283,500.00	61.50	\$276,750.00
5010	Construction Signs Class A	300	SF	20.00	\$6,000.00	25.00	\$7,500.00	10.00	\$3,000.00	21.50	\$6,450.00
5015	Traffic Control Supervisor	300	HR	81.50	\$24,450.00	100.00	\$30,000.00	75.00	\$22,500.00	87.00	\$26,100.00
5020	Other Temporary Traffic Control	1	LS	10,000.00	\$10,000.00	55,000.00	\$55,000.00	2,500.00	\$2,500.00	36,000.00	\$36,000.00
5030	Portable Changeable Message Sign (PCMS)	550	DAY	75.00	\$41,250.00	45.00	\$24,750.00	75.00	\$41,250.00	160.00	\$88,000.00
5035	Sequential Arrow Sign (SAS)	250	DAY	25.00	\$6,250.00	30.00	\$7,500.00	50.00	\$12,500.00	326.00	\$81,500.00
5060	Type III Barricade (Roadway & Pedestrian)	30	EA	200.00	\$6,000.00	600.00	\$18,000.00	225.00	\$6,750.00	665.00	\$19,950.00
5075	Permanent Channelization	1	LS	2,500.00	\$2,500.00	5,000.00	\$5,000.00	15,000.00	\$15,000.00	11,000.00	\$11,000.00
SCHEDULE V TOTAL					\$397,050.00		\$462,750.00		\$387,000.00		\$545,750.00

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Bid Opening: October 23, 2018, 11:00 AM				Scarsella Bros., Inc. PO Box 68697 Seattle, WA 98168-0697		Rodarte Construction, Inc. 17 East Valley Highway E. Auburn, WA 98092		Active Construction Inc. PO Box 430 Puyallup, WA 98371		Johansen Construction Co. PO Box 674 Buckley, WA 98321	
TOTAL				\$7,760,955.20		\$8,379,049.50		\$8,650,267.77		\$8,759,828.10	
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE VI: ELECTRICAL											
6025	Traffic Signal Modifications	1	LS	5,500.00	\$5,500.00	28,000.00	\$28,000.00	6,500.00	\$6,500.00	5,700.00	\$5,700.00
SCHEDULE VI TOTAL					\$5,500.00	\$28,000.00	\$6,500.00	\$5,700.00			
SCHEDULE VII: TEMPORARY EROSION & SEDIMENTATION CONTROL											
7000	* Seeding, Fertilizing, & Mulching	1.0	AC	8,500.00	\$8,500.00	11,000.00	\$11,000.00	11,000.00	\$11,000.00	11,000.00	\$11,000.00
7005	Filter Fabric Fence with Backup Support	500	LF	6.00	\$3,000.00	4.00	\$2,000.00	6.00	\$3,000.00	6.00	\$3,000.00
7010	High Visibility Fence	3,000	LF	3.00	\$9,000.00	3.25	\$9,750.00	3.00	\$9,000.00	3.85	\$11,550.00
7015	* Inlet Protection	30	EA	100.00	\$3,000.00	45.00	\$1,350.00	100.00	\$3,000.00	57.00	\$1,710.00
7020	Straw Mulch	1,200	SY	1.00	\$1,200.00	1.00	\$1,200.00	2.50	\$3,000.00	3.50	\$4,200.00
7023	Wattle	200	LF	8.00	\$1,600.00	6.00	\$1,200.00	5.00	\$1,000.00	6.00	\$1,200.00
7025	Plastic Covering	6,000	SY	1.50	\$9,000.00	3.50	\$21,000.00	2.50	\$15,000.00	3.70	\$22,200.00
7027	Pipe Slope Drain	1	LS	15,000.00	\$15,000.00	1,800.00	\$1,800.00	1,100.00	\$1,100.00	13,600.00	\$13,600.00
7030	ESC Lead	60	DAY	200.00	\$12,000.00	80.00	\$4,800.00	2.00	\$120.00	100.00	\$6,000.00
7035	Stabilized Construction Entrance	400	SY	18.00	\$7,200.00	35.00	\$14,000.00	16.00	\$6,400.00	19.50	\$7,800.00
7055	Erosion/Water Pollution Control	1	FA	20,000.00	\$20,000.00	20,000.00	\$20,000.00	20,000.00	\$20,000.00	20,000.00	\$20,000.00
7060	SPCC Plan	1	LS	1,500.00	\$1,500.00	150.00	\$150.00	150.00	\$150.00	5,000.00	\$5,000.00
SCHEDULE VII TOTAL					\$91,000.00	\$88,250.00	\$72,770.00	\$107,260.00			
SCHEDULE VIII: ROADSIDE RESTORATION											
8002	Landscape Restoration	1	FA	25,000.00	\$25,000.00	25,000.00	\$25,000.00	25,000.00	\$25,000.00	25,000.00	\$25,000.00
8005	* Topsoil Type A	300	CY	45.00	\$13,500.00	55.00	\$16,500.00	56.00	\$16,800.00	55.00	\$16,500.00
8015	Medium Bark Chip Mulch	150	CY	45.00	\$6,750.00	55.00	\$8,250.00	56.00	\$8,400.00	55.00	\$8,250.00
SCHEDULE VIII TOTAL					\$45,250.00	\$49,750.00	\$50,200.00	\$49,750.00			
SCHEDULE IX: UPRR BRIDGE SHAFTS											
9003	Structure Surveying	1	LS	20,000.00	\$20,000.00	12,500.00	\$12,500.00	19,000.00	\$19,000.00	17,450.00	\$17,450.00
9012	Shoring or Extra Excavation Cl. A - Shafts	1	LS	5,000.00	\$5,000.00	47,000.00	\$47,000.00	17,500.00	\$17,500.00	5,875.00	\$5,875.00
9020	Constructing 8.2' Diameter Shaft	204	LF	1,908.00	\$389,232.00	2,000.00	\$408,000.00	2,700.00	\$550,800.00	1,880.00	\$383,520.00
9040	Gravel Backfill for Drain	83	CY	40.00	\$3,320.00	80.00	\$6,640.00	70.00	\$5,810.00	65.00	\$5,395.00
9045	QA Shaft Test	4	EA	2,000.00	\$8,000.00	1,400.00	\$5,600.00	1,400.00	\$5,600.00	3,700.00	\$14,800.00
9050	Removing Shaft Obstructions	1	FA	100,000.00	\$100,000.00	100,000.00	\$100,000.00	100,000.00	\$100,000.00	100,000.00	\$100,000.00
SCHEDULE IX TOTAL					\$525,552.00	\$579,740.00	\$698,710.00	\$527,040.00			

S. 228th St. Union Pacific Railroad Grade Separation Ground Improvements & Embankments				1		2		3		4	
Bid Opening: October 23, 2018, 11:00 AM				Scarsella Bros., Inc. PO Box 68697 Seattle, WA 98168-0697		Rodarte Construction, Inc. 17 East Valley Highway E. Auburn, WA 98092		Active Construction Inc. PO Box 430 Puyallup, WA 98371		Johansen Construction Co. PO Box 674 Buckley, WA 98321	
TOTAL				\$7,760,955.20		\$8,379,049.50		\$8,650,267.77		\$8,759,828.10	
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE X: RETAINING WALLS											
10000	Structure Excavation Class A Incl. Haul	8,000	CY	32.50	\$260,000.00	25.00	\$200,000.00	36.00	\$288,000.00	25.00	\$200,000.00
10003	Shoring or Extra Excavation Cl. A - Walls	1	LS	13,000.00	\$13,000.00	80,000.00	\$80,000.00	1,000.00	\$1,000.00	10,450.00	\$10,450.00
10050	Gravel Borrow for Structural Earth Wall, Incl. Haul	40,000	CY	37.75	\$1,510,000.00	43.00	\$1,720,000.00	38.00	\$1,520,000.00	41.00	\$1,640,000.00
10055	Geosynthetic Retaining Wall	6,700	SF	8.00	\$53,600.00	20.00	\$134,000.00	30.00	\$201,000.00	21.00	\$140,700.00
10100	Structural Earth Wall	30,000	SF	29.67	\$890,100.00	31.00	\$930,000.00	43.00	\$1,290,000.00	32.85	\$985,500.00
10110	6" Underdrain Pipe	350	LF	22.00	\$7,700.00	20.00	\$7,000.00	26.00	\$9,100.00	19.50	\$6,825.00
SCHEDULE X TOTAL				\$2,734,400.00		\$3,071,000.00		\$3,309,100.00		\$2,983,475.00	
SCHEDULE XI: FLOFORM											
11005	Clearing & Grubbing	1	LS	8,500.00	\$8,500.00	8,500.00	\$8,500.00	6,000.00	\$6,000.00	13,480.00	\$13,480.00
11010	* Remove Existing Asphalt Concrete Pavement	330	SY	8.00	\$2,640.00	9.50	\$3,135.00	6.50	\$2,145.00	16.50	\$5,445.00
11015	Remove Existing Cement Concrete Pavement	100	SY	20.00	\$2,000.00	18.00	\$1,800.00	18.00	\$1,800.00	44.00	\$4,400.00
11030	* Remove Cement Concrete Extruded Curb	150	LF	2.00	\$300.00	6.00	\$900.00	4.00	\$600.00	4.85	\$727.50
11040	Removal of Structures & Obstructions	1	LS	1,000.00	\$1,000.00	1,000.00	\$1,000.00	2,800.00	\$2,800.00	9,250.00	\$9,250.00
11050	* Saw Cut Existing Asphalt Concrete Pavement	700	LF	3.00	\$2,100.00	2.75	\$1,925.00	2.00	\$1,400.00	5.85	\$4,095.00
11055	Saw Cut Existing Cement Concrete Pavement	150	LF	10.00	\$1,500.00	6.00	\$900.00	3.50	\$525.00	13.25	\$1,987.50
11060	* Roadway Excavation Incl. Haul	1,300	CY	32.00	\$41,600.00	26.00	\$33,800.00	40.00	\$52,000.00	23.95	\$31,135.00
11075	* Gravel Borrow, Including Haul & Compaction	800	TON	21.30	\$17,040.00	24.00	\$19,200.00	36.00	\$28,800.00	29.70	\$23,760.00
11080	* Crushed Surfacing Top Course, 5/8" Minus	400	TON	25.00	\$10,000.00	26.00	\$10,400.00	41.00	\$16,400.00	29.35	\$11,740.00
11085	Crushed Surfacing Base Course, 1-1/4" Minus	500	TON	25.00	\$12,500.00	26.00	\$13,000.00	38.00	\$19,000.00	24.30	\$12,150.00
11090	* Foundation Material, Class I & II	10	TON	25.00	\$250.00	45.00	\$450.00	26.00	\$260.00	49.80	\$498.00
11093	* Unsuitable Foundation Excavation Incl. Haul	50	CY	50.00	\$2,500.00	65.00	\$3,250.00	32.00	\$1,600.00	50.00	\$2,500.00
11095	* HMA Class 1/2", PG58V-22	300	TON	130.00	\$39,000.00	145.00	\$43,500.00	150.00	\$45,000.00	227.00	\$68,100.00
11100	* Pipe Zone Bedding	70	TON	20.00	\$1,400.00	25.00	\$1,750.00	41.00	\$2,870.00	34.65	\$2,425.50
11105	* Bank Run Gravel for Trench Backfill	55	TON	15.00	\$825.00	30.00	\$1,650.00	23.00	\$1,265.00	31.25	\$1,718.75
11110	* Shoring or Extra Excavation Class B	540	SF	0.50	\$270.00	0.25	\$135.00	0.23	\$124.20	1.25	\$675.00
11125	* Hot Plant Mix for Temporary Pavement Patch	20	TON	200.00	\$4,000.00	160.00	\$3,200.00	175.00	\$3,500.00	341.95	\$6,839.00
11130	Pervious Cement Concrete Pavement	450	CY	412.50	\$185,625.00	335.00	\$150,750.00	50.00	\$22,500.00	338.00	\$152,100.00
11135	Gravel Backfill for Walls	700	TON	25.00	\$17,500.00	35.00	\$24,500.00	26.00	\$18,200.00	35.85	\$25,095.00
11150	Stormwater Pond Excavation, Incl. Haul	450	CY	32.50	\$14,625.00	32.00	\$14,400.00	40.00	\$18,000.00	85.00	\$38,250.00
11170	* Topsoil Type A	125	CY	45.00	\$5,625.00	55.00	\$6,875.00	56.00	\$7,000.00	55.00	\$6,875.00
11197	Temporary Signing	2	EA	500.00	\$1,000.00	500.00	\$1,000.00	1,100.00	\$2,200.00	1,315.00	\$2,630.00
11200	Business Directional Signs	1	FA	10,000.00	\$10,000.00	10,000.00	\$10,000.00	10,000.00	\$10,000.00	10,000.00	\$10,000.00
11202	* Remove & Reset Existing Mailbox	1	EA	350.00	\$350.00	300.00	\$300.00	270.00	\$270.00	480.00	\$480.00
11210	* Cement Concrete Extruded Curb	50	LF	12.00	\$600.00	9.00	\$450.00	20.00	\$1,000.00	20.50	\$1,025.00
11215	Storm Sewer Pipe 12" Diameter	120	LF	116.75	\$14,010.00	42.00	\$5,040.00	40.00	\$4,800.00	106.00	\$12,720.00
11230	Remove Existing Oil/Water Separator	1	EA	2,500.00	\$2,500.00	400.00	\$400.00	400.00	\$400.00	2,758.00	\$2,758.00
11235	Trash Screen, 12" Diameter	2	EA	560.00	\$1,120.00	500.00	\$1,000.00	450.00	\$900.00	865.00	\$1,730.00
11240	* Inlet Protection	4	EA	100.00	\$400.00	45.00	\$180.00	100.00	\$400.00	57.00	\$228.00
11245	Oil/Water Separator	1	EA	15,700.00	\$15,700.00	15,500.00	\$15,500.00	14,000.00	\$14,000.00	17,750.00	\$17,750.00
11255	* Remove Fence & Gates	500	LF	5.00	\$2,500.00	5.00	\$2,500.00	6.00	\$3,000.00	14.75	\$7,375.00
11280	Chain Link Fence, Type 1 for Pond	170	LF	41.19	\$7,002.30	45.00	\$7,650.00	46.00	\$7,820.00	45.00	\$7,650.00

**S. 228th St. Union Pacific Railroad Grade Separation
Ground Improvements & Embankments**

Bid Opening: October 23, 2018, 11:00 AM

				1		2		3		4	
				Scarsella Bros., Inc. PO Box 68697 Seattle, WA 98168-0697		Rodarte Construction, Inc. 17 East Valley Highway E. Auburn, WA 98092		Active Construction Inc. PO Box 430 Puyallup, WA 98371		Johansen Construction Co. PO Box 674 Buckley, WA 98321	
TOTAL				\$7,760,955.20		\$8,379,049.50		\$8,650,267.77		\$8,759,828.10	
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
11281	Double 20 Ft. Chain Link Gate	1	EA	1,920.00	\$1,920.00	2,000.00	\$2,000.00	2,150.00	\$2,150.00	2,100.00	\$2,100.00
11282 *	Chain Link Fence Type 3	350	LF	25.10	\$8,785.00	27.00	\$9,450.00	21.00	\$7,350.00	25.65	\$8,977.50
11290	Furnish & Install Steel Ornamental Automated 30 Foot Gate	2	EA	40,500.00	\$81,000.00	28,000.00	\$56,000.00	25,000.00	\$50,000.00	35,200.00	\$70,400.00
11295	Single 6 Ft. Chain Link Walk Gate for Pond	1	EA	1,020.00	\$1,020.00	1,100.00	\$1,100.00	1,150.00	\$1,150.00	1,125.00	\$1,125.00
11300	Erosion/Water Pollution Control	1	FA	5,000.00	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$5,000.00
11325	Sod Installation	170	SY	7.00	\$1,190.00	11.00	\$1,870.00	11.00	\$1,870.00	11.00	\$1,870.00
11335 *	Seeding, Fertilizing & Mulching	0.1	AC	8,500.00	\$850.00	11,000.00	\$1,100.00	11,000.00	\$1,100.00	11,000.00	\$1,100.00
11340	Furnish & Install 6' Steel Ornamental Fence	100	LF	126.78	\$12,678.00	140.00	\$14,000.00	142.00	\$14,200.00	140.00	\$14,000.00
11355	Minor Changes	1	CALC	15,000.00	\$15,000.00	15,000.00	\$15,000.00	15,000.00	\$15,000.00	15,000.00	\$15,000.00
11365	Landscaping	1	FA	5,000.00	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$5,000.00
11390	Quarry Spalls	70	TON	50.00	\$3,500.00	42.00	\$2,940.00	46.00	\$3,220.00	54.02	\$3,781.40
SCHEDULE XI TOTAL					\$561,925.30	\$502,500.00	\$402,619.20	\$615,946.15			
SUMMARY:											
SCHEDULE I TOTAL					\$1,725,978.00	\$1,787,820.00	\$2,125,480.77	\$1,808,946.00			
SCHEDULE II TOTAL					\$1,581,259.90	\$1,742,669.50	\$1,540,327.80	\$2,031,490.45			
SCHEDULE IV TOTAL					\$93,040.00	\$66,570.00	\$57,560.00	\$84,470.50			
SCHEDULE V TOTAL					\$397,050.00	\$462,750.00	\$387,000.00	\$545,750.00			
SCHEDULE VI TOTAL					\$5,500.00	\$28,000.00	\$6,500.00	\$5,700.00			
SCHEDULE VII TOTAL					\$91,000.00	\$88,250.00	\$72,770.00	\$107,260.00			
SCHEDULE VIII TOTAL					\$45,250.00	\$49,750.00	\$50,200.00	\$49,750.00			
SCHEDULE IX TOTAL					\$525,552.00	\$579,740.00	\$698,710.00	\$527,040.00			
SCHEDULE X TOTAL					\$2,734,400.00	\$3,071,000.00	\$3,309,100.00	\$2,983,475.00			
SCHEDULE XI TOTAL					\$561,925.30	\$502,500.00	\$402,619.20	\$615,946.15			
CONSTRUCTION CONTRACT TOTAL					\$7,760,955.20	\$8,379,049.50	\$8,650,267.77	\$8,759,828.10			

**S. 228th St. Union Pacific Railroad Grade Separation
Ground Improvements & Embankments**

Bid Opening: October 23, 2018, 11:00 AM

5

Tucci & Sons, Inc.
4224 Waller Rd.
Tacoma, WA 98443-1623

Engineer's Estimate
Susanne Smith

TOTAL

\$10,367,174.00

\$9,658,847.50

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE I: STREET							
1000	Mobilization	1	LS	700,000.00	\$700,000.00	700,000.00	\$700,000.00
1005	Clearing & Grubbing	1	LS	24,250.00	\$24,250.00	20,000.00	\$20,000.00
1010	* Remove Existing Asphalt Concrete Pavement	5,500	SY	6.25	\$34,375.00	14.00	\$77,000.00
1015	Remove Existing Reinforced Cement Concrete Driveway/ Pavement	380	SY	23.00	\$8,740.00	35.00	\$13,300.00
1020	Remove Cement Concrete Sidewalk	50	SY	43.00	\$2,150.00	16.00	\$800.00
1025	Remove Cement Concrete Curb & Gutter	1,600	LF	19.00	\$30,400.00	10.00	\$16,000.00
1030	* Remove Cement Concrete Extruded Curb	1,200	LF	10.00	\$12,000.00	10.00	\$12,000.00
1050	* Saw Cut Existing Asphalt Concrete Pavement	3,700	LF	2.50	\$9,250.00	5.00	\$18,500.00
1060	* Roadway Excavation Incl. Haul	250	CY	54.00	\$13,500.00	50.00	\$12,500.00
1065	* Gravel Borrow, Including Haul & Compaction	250	TON	56.00	\$14,000.00	35.00	\$8,750.00
1080	* Crushed Surfacing Top Course, 5/8" Minus	1,600	TON	44.00	\$70,400.00	35.00	\$56,000.00
1095	* HMA Class 1/2", PG58V-22	1,350	TON	116.00	\$156,600.00	180.00	\$243,000.00
1125	* Hot Plant Mix for Temporary Pavement Patch	130	TON	205.00	\$26,650.00	200.00	\$26,000.00
1130	Cement Conc. Pavement	25	CY	575.00	\$14,375.00	600.00	\$15,000.00
1205	Cement Concrete Curb & Gutter	260	LF	50.00	\$13,000.00	40.00	\$10,400.00
1210	* Cement Concrete Extruded Curb	1,550	LF	13.00	\$20,150.00	20.00	\$31,000.00
1270	Temporary 6 Foot Chain Link Fence	1,000	LF	6.00	\$6,000.00	10.00	\$10,000.00
1272	* Remove Fence & Gates	400	LF	11.00	\$4,400.00	15.00	\$6,000.00
1275	* Chain Link Fence Type 3	900	LF	28.00	\$25,200.00	40.00	\$36,000.00
1276	Single 6 Ft. Chain Link Gate	1	EA	1,200.00	\$1,200.00	1,000.00	\$1,000.00
1278	40 Foot Slide Chain Link Gate	1	EA	8,000.00	\$8,000.00	2,500.00	\$2,500.00
1279	60 Foot Slide Chain Link Gate	1	EA	10,200.00	\$10,200.00	5,000.00	\$5,000.00
1280	Double 14 Ft. Chain Link Gate	4	EA	1,500.00	\$6,000.00	1,700.00	\$6,800.00
1285	Stone Columns 6% Replacement Ground Improvement	560	SY	400.00	\$224,000.00	90.00	\$50,400.00
1290	Stone Columns 13% Replacement Ground Improvement	1,360	SY	500.00	\$680,000.00	160.00	\$217,600.00
1296	* Remove & Reset Existing Mailbox	1	EA	450.00	\$450.00	500.00	\$500.00
1315	Pothole Utilities	25	EA	850.00	\$21,250.00	750.00	\$18,750.00
1316	Project Sign Fabrication & Installation	2	EA	1,700.00	\$3,400.00	1,000.00	\$2,000.00
1320	Field Office	1	LS	15,000.00	\$15,000.00	50,000.00	\$50,000.00
1325	Temporary Fall Protection	1	LS	37,000.00	\$37,000.00	3,500.00	\$3,500.00
1330	Settlement Monitoring Trench	1,650	LF	43.00	\$70,950.00	20.00	\$33,000.00
1355	Minor Changes	1	CALC	30,000.00	\$30,000.00	30,000.00	\$30,000.00
1360	Existing Irrigation System Removal, Repair and/or Modification	1	FA	5,000.00	\$5,000.00	5,000.00	\$5,000.00
1365	Reimbursement for Third Party Damage	1	FA	50,000.00	\$50,000.00	50,000.00	\$50,000.00
1370	Training	800	HR	35.00	\$28,000.00	15.00	\$12,000.00
SCHEDULE I TOTAL					\$2,375,890.00	\$1,800,300.00	

**S. 228th St. Union Pacific Railroad Grade Separation
Ground Improvements & Embankments**

Bid Opening: October 23, 2018, 11:00 AM

5

Tucci & Sons, Inc.
4224 Waller Rd.
Tacoma, WA 98443-1623

Engineer's Estimate
Susanne Smith

TOTAL

\$10,367,174.00

\$9,658,847.50

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE II: WATER							
2000	4" Connection to Existing Water Main	1	EA	4,100.00	\$4,100.00	4,500.00	\$4,500.00
2005	8" Connection to Existing Water Main	3	EA	4,200.00	\$12,600.00	5,500.00	\$16,500.00
2010	10" Connection to Existing Water Main	1	EA	8,700.00	\$8,700.00	6,000.00	\$6,000.00
2015	12" Connection to Existing Water Main	2	EA	6,600.00	\$13,200.00	7,000.00	\$14,000.00
2017	8" Connection to Existing Double Check Detector Assembly	2	EA	6,400.00	\$12,800.00	4,000.00	\$8,000.00
2019	4" Diameter Ductile Iron, CI 52 Water Main Pipe	25	LF	215.00	\$5,375.00	120.00	\$3,000.00
2025	8" Diameter Ductile Iron, CI 52 Water Main Pipe	550	LF	118.00	\$64,900.00	130.00	\$71,500.00
2032	8" Diameter Restrained Joint Ductile Iron, CI 52 Water Main Pipe	70	LF	180.00	\$12,600.00	200.00	\$14,000.00
2034	12" Diameter Restrained Joint Ductile Iron, CI 52 Water Main Pipe	620	LF	203.00	\$125,860.00	250.00	\$155,000.00
2045	8" Gate Valve, MJ x FL or MJ x MJ or FL x FL	2	EA	1,850.00	\$3,700.00	2,000.00	\$4,000.00
2050	12" Gate Valve, MJ x FL or MJ x MJ or FL x FL	20	EA	2,900.00	\$58,000.00	4,000.00	\$80,000.00
2052	16" Gate Valve, MJ x FL or MJ x MJ or FL x FL	2	EA	8,500.00	\$17,000.00	8,000.00	\$16,000.00
2057	12" Diameter Earthquake Resistant Ductile Iron, CI 52 Water Main Pipe	1,630	LF	260.00	\$423,800.00	650.00	\$1,059,500.00
2058	16" Diameter Earthquake Resistant Ductile Iron, CI 52 Water Main Pipe	405	LF	175.00	\$70,875.00	700.00	\$283,500.00
2059	12" Diameter Double Ball Flexible Expansion Joint	5	EA	9,500.00	\$47,500.00	10,000.00	\$50,000.00
2060	Replace Existing Valve Box Top Section & Lid	4	EA	175.00	\$700.00	600.00	\$2,400.00
2065	Replace Existing Valve Box Base Section	4	EA	65.00	\$260.00	600.00	\$2,400.00
2070	Valve Operating Nut Extender	18	EA	270.00	\$4,860.00	350.00	\$6,300.00
2080	Hydrant Assembly	7	EA	8,400.00	\$58,800.00	15,000.00	\$105,000.00
2090	2" Air Release Valve with Chamber	3	EA	10,800.00	\$32,400.00	12,000.00	\$36,000.00
2094	Remove Existing Air Release Valve & Chamber	1	EA	3,000.00	\$3,000.00	3,500.00	\$3,500.00
2105	Abandon Existing Water Service	5	EA	1,250.00	\$6,250.00	500.00	\$2,500.00
2107	Temporary Water Connections	1	LS	41,000.00	\$41,000.00	30,000.00	\$30,000.00
2110	Abandon & Fill Existing Water Main with CDF	60	CY	450.00	\$27,000.00	250.00	\$15,000.00
2115	Remove Existing Water Main	225	LF	92.00	\$20,700.00	30.00	\$6,750.00
2118	Service Connection 1" Diameter	4	EA	1,100.00	\$4,400.00	2,800.00	\$11,200.00
2120	Service Connection 1 1/2" Diameter	4	EA	1,200.00	\$4,800.00	3,000.00	\$12,000.00
2125	Service Connection 2" Diameter	1	EA	1,400.00	\$1,400.00	3,500.00	\$3,500.00
2145	Water Service Line 1" Diameter	210	LF	40.00	\$8,400.00	65.00	\$13,650.00
2150	Water Service Line 1 1/2" Diameter	220	LF	41.00	\$9,020.00	70.00	\$15,400.00
2155	Water Service Line 2" Diameter	50	LF	49.00	\$2,450.00	80.00	\$4,000.00
2205	1 1/2" Meter Setter	1	EA	1,600.00	\$1,600.00	3,000.00	\$3,000.00
2210	1" Meter Setter with Reduced Pressure Backflow Assembly	4	EA	2,300.00	\$9,200.00	5,500.00	\$22,000.00
2212	1 1/2" Meter Setter with Reduced Pressure Backflow Assembly	2	EA	3,800.00	\$7,600.00	6,000.00	\$12,000.00
2215	2" Meter Setter with Reduced Pressure Backflow Assembly	2	EA	4,300.00	\$8,600.00	8,000.00	\$16,000.00
2220	Meter Box for Up to 1" Diameter Service	4	EA	300.00	\$1,200.00	800.00	\$3,200.00
2225	Meter Box for 1 1/2 to 2" Diameter Service	5	EA	425.00	\$2,125.00	900.00	\$4,500.00
2230	Relocating Water Meter Assembly	1	EA	1,700.00	\$1,700.00	1,000.00	\$1,000.00
2235	Remove Existing Double Check Detector Assembly	2	EA	2,200.00	\$4,400.00	7,500.00	\$15,000.00

**S. 228th St. Union Pacific Railroad Grade Separation
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Bid Opening: October 23, 2018, 11:00 AM

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Tucci & Sons, Inc.
4224 Waller Rd.
Tacoma, WA 98443-1623

Engineer's Estimate
Susanne Smith

TOTAL \$10,367,174.00 \$9,658,847.50

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
2240	10" Double Check Detector Assembly	2	EA	42,000.00	\$84,000.00	80,000.00	\$160,000.00
2245	Electrical Service for Double Check Detector Assembly	1	FA	35,000.00	\$35,000.00	35,000.00	\$35,000.00
2255	* Shoring or Extra Excavation Class B	22,000	SF	0.25	\$5,500.00	1.00	\$22,000.00
2258	* Unsuitable Foundation Excavation Including Haul	85	CY	69.00	\$5,865.00	45.00	\$3,825.00
2260	* Foundation Material, Class I & II	200	TON	61.00	\$12,200.00	30.00	\$6,000.00
2275	* Pipe Zone Bedding	2,200	TON	22.00	\$48,400.00	30.00	\$66,000.00
2290	* Bank Run Gravel for Trench Backfill	4,700	TON	41.00	\$192,700.00	25.00	\$117,500.00
2295	Geotextile Fabric, Non-Woven	200	SY	2.00	\$400.00	6.00	\$1,200.00
2300	* Hot Plant Mix for Temporary Pavement Patch	110	TON	205.00	\$22,550.00	200.00	\$22,000.00
2305	24" O.D., 0.375" Thick Steel Casing	365	LF	230.00	\$83,950.00	600.00	\$219,000.00
2310	Remove Existing Water Meter	9	EA	1,100.00	\$9,900.00	500.00	\$4,500.00
2315	Remove Existing Hydrant Assembly	5	EA	1,600.00	\$8,000.00	1,750.00	\$8,750.00
2325	Minor Changes	1	CALC	25,000.00	\$25,000.00	25,000.00	\$25,000.00
2330	Remove Existing Valve Box Top Section & Lid	19	EA	425.00	\$8,075.00	300.00	\$5,700.00
SUB TOTAL					\$1,684,415.00		\$2,828,275.00
10% SALES TAX					\$168,441.50		\$282,827.50
SCHEDULE II TOTAL					\$1,852,856.50		\$3,111,102.50
SCHEDULE IV: STORM SEWER							
4000	Ductile Iron Storm Sewer Pipe, 12" Diameter	550	LF	100.00	\$55,000.00	220.00	\$121,000.00
4080	Catch Basin, Type 1	4	EA	1,000.00	\$4,000.00	1,500.00	\$6,000.00
4105	Concrete Inlet	4	EA	1,000.00	\$4,000.00	1,100.00	\$4,400.00
4120	Vaned Catch Basin Frame & Grate	8	EA	300.00	\$2,400.00	800.00	\$6,400.00
4130	Abandon Existing Storm Sewer Pipe	1	EA	1,500.00	\$1,500.00	1,000.00	\$1,000.00
4140	Remove Existing Storm Sewer Pipe or Culvert	110	LF	57.00	\$6,270.00	35.00	\$3,850.00
4145	Remove Existing Catch Basin or Manhole	3	EA	800.00	\$2,400.00	1,000.00	\$3,000.00
4147	Storm Sewer Pipe Connection	1	EA	3,700.00	\$3,700.00	2,500.00	\$2,500.00
4175	* Crushed Surfacing Top Course, 5/8" Minus	20	TON	44.00	\$880.00	35.00	\$700.00
4180	CCTV Video Inspection of 60" Storm Drain Pipe	1	LS	10,000.00	\$10,000.00	4,000.00	\$4,000.00
SCHEDULE IV TOTAL					\$90,150.00		\$152,850.00
SCHEDULE V: TRAFFIC CONTROL							
5005	Traffic Control Labor	4,500	HR	57.00	\$256,500.00	60.00	\$270,000.00
5010	Construction Signs Class A	300	SF	29.00	\$8,700.00	30.00	\$9,000.00
5015	Traffic Control Supervisor	300	HR	124.00	\$37,200.00	80.00	\$24,000.00
5020	Other Temporary Traffic Control	1	LS	8,700.00	\$8,700.00	20,000.00	\$20,000.00
5030	Portable Changeable Message Sign (PCMS)	550	DAY	115.00	\$63,250.00	90.00	\$49,500.00
5035	Sequential Arrow Sign (SAS)	250	DAY	105.00	\$26,250.00	50.00	\$12,500.00
5060	Type III Barricade (Roadway & Pedestrian)	30	EA	1,800.00	\$54,000.00	300.00	\$9,000.00
5075	Permanent Channelization	1	LS	12,000.00	\$12,000.00	10,000.00	\$10,000.00
SCHEDULE V TOTAL					\$466,600.00		\$404,000.00

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ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE VI: ELECTRICAL							
6025	Traffic Signal Modifications	1	LS	7,500.00	\$7,500.00	14,000.00	\$14,000.00
SCHEDULE VI TOTAL					\$7,500.00		\$14,000.00
SCHEDULE VII: TEMPORARY EROSION & SEDIMENTATION CONTROL							
7000	* Seeding, Fertilizing, & Mulching	1.0	AC	6,500.00	\$6,500.00	3,000.00	\$3,000.00
7005	Filter Fabric Fence with Backup Support	500	LF	6.00	\$3,000.00	6.00	\$3,000.00
7010	High Visibility Fence	3,000	LF	3.00	\$9,000.00	5.00	\$15,000.00
7015	* Inlet Protection	30	EA	100.00	\$3,000.00	105.00	\$3,150.00
7020	Straw Mulch	1,200	SY	1.00	\$1,200.00	3.00	\$3,600.00
7023	Wattle	200	LF	4.50	\$900.00	10.00	\$2,000.00
7025	Plastic Covering	6,000	SY	2.50	\$15,000.00	3.25	\$19,500.00
7027	Pipe Slope Drain	1	LS	9,000.00	\$9,000.00	6,400.00	\$6,400.00
7030	ESC Lead	60	DAY	30.00	\$1,800.00	200.00	\$12,000.00
7035	Stabilized Construction Entrance	400	SY	51.00	\$20,400.00	35.00	\$14,000.00
7055	Erosion/Water Pollution Control	1	FA	20,000.00	\$20,000.00	20,000.00	\$20,000.00
7060	SPCC Plan	1	LS	500.00	\$500.00	2,300.00	\$2,300.00
SCHEDULE VII TOTAL					\$90,300.00		\$103,950.00
SCHEDULE VIII: ROADSIDE RESTORATION							
8002	Landscape Restoration	1	FA	25,000.00	\$25,000.00	25,000.00	\$25,000.00
8005	* Topsoil Type A	300	CY	60.00	\$18,000.00	35.00	\$10,500.00
8015	Medium Bark Chip Mulch	150	CY	60.00	\$9,000.00	60.00	\$9,000.00
SCHEDULE VIII TOTAL					\$52,000.00		\$44,500.00
SCHEDULE IX: UPRR BRIDGE SHAFTS							
9003	Structure Surveying	1	LS	20,000.00	\$20,000.00	40,000.00	\$40,000.00
9012	Shoring or Extra Excavation Cl. A - Shafts	1	LS	90,000.00	\$90,000.00	10,000.00	\$10,000.00
9020	Constructing 8.2' Diameter Shaft	204	LF	4,000.00	\$816,000.00	2,100.00	\$428,400.00
9040	Gravel Backfill for Drain	83	CY	75.00	\$6,225.00	75.00	\$6,225.00
9045	QA Shaft Test	4	EA	2,000.00	\$8,000.00	2,500.00	\$10,000.00
9050	Removing Shaft Obstructions	1	FA	100,000.00	\$100,000.00	100,000.00	\$100,000.00
SCHEDULE IX TOTAL					\$1,040,225.00		\$594,625.00

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ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
SCHEDULE X: RETAINING WALLS							
10000	Structure Excavation Class A Incl. Haul	8,000	CY	40.00	\$320,000.00	35.00	\$280,000.00
10003	Shoring or Extra Excavation Cl. A - Walls	1	LS	115,000.00	\$115,000.00	5,000.00	\$5,000.00
10050	Gravel Borrow for Structural Earth Wall, Incl. Haul	40,000	CY	56.00	\$2,240,000.00	32.00	\$1,280,000.00
10055	Geosynthetic Retaining Wall	6,700	SF	25.00	\$167,500.00	25.00	\$167,500.00
10100	Structural Earth Wall	30,000	SF	28.00	\$840,000.00	35.00	\$1,050,000.00
10110	6" Underdrain Pipe	350	LF	15.00	\$5,250.00	30.00	\$10,500.00
SCHEDULE X TOTAL					\$3,687,750.00		\$2,793,000.00
SCHEDULE XI: FLOFORM							
11005	Clearing & Grubbing	1	LS	11,000.00	\$11,000.00	20,000.00	\$20,000.00
11010	* Remove Existing Asphalt Concrete Pavement	330	SY	6.25	\$2,062.50	14.00	\$4,620.00
11015	Remove Existing Cement Concrete Pavement	100	SY	43.00	\$4,300.00	35.00	\$3,500.00
11030	* Remove Cement Concrete Extruded Curb	150	LF	10.00	\$1,500.00	10.00	\$1,500.00
11040	Removal of Structures & Obstructions	1	LS	16,000.00	\$16,000.00	1,500.00	\$1,500.00
11050	* Saw Cut Existing Asphalt Concrete Pavement	700	LF	2.50	\$1,750.00	5.00	\$3,500.00
11055	Saw Cut Existing Cement Concrete Pavement	150	LF	6.00	\$900.00	10.00	\$1,500.00
11060	* Roadway Excavation Incl. Haul	1,300	CY	54.00	\$70,200.00	50.00	\$65,000.00
11075	* Gravel Borrow, Including Haul & Compaction	800	TON	56.00	\$44,800.00	35.00	\$28,000.00
11080	* Crushed Surfacing Top Course, 5/8" Minus	400	TON	44.00	\$17,600.00	35.00	\$14,000.00
11085	Crushed Surfacing Base Course, 1-1/4" Minus	500	TON	46.00	\$23,000.00	30.00	\$15,000.00
11090	* Foundation Material, Class I & II	10	TON	61.00	\$610.00	30.00	\$300.00
11093	* Unsuitable Foundation Excavation Incl. Haul	50	CY	69.00	\$3,450.00	45.00	\$2,250.00
11095	* HMA Class 1/2", PG58V-22	300	TON	116.00	\$34,800.00	220.00	\$66,000.00
11100	* Pipe Zone Bedding	70	TON	22.00	\$1,540.00	30.00	\$2,100.00
11105	* Bank Run Gravel for Trench Backfill	55	TON	41.00	\$2,255.00	25.00	\$1,375.00
11110	* Shoring or Extra Excavation Class B	540	SF	0.25	\$135.00	1.00	\$540.00
11125	* Hot Plant Mix for Temporary Pavement Patch	20	TON	205.00	\$4,100.00	200.00	\$4,000.00
11130	Pervious Cement Concrete Pavement	450	CY	340.00	\$153,000.00	350.00	\$157,500.00
11135	Gravel Backfill for Walls	700	TON	48.00	\$33,600.00	55.00	\$38,500.00
11150	Stormwater Pond Excavation, Incl. Haul	450	CY	66.00	\$29,700.00	35.00	\$15,750.00
11170	* Topsoil Type A	125	CY	60.00	\$7,500.00	35.00	\$4,375.00
11197	Temporary Signing	2	EA	600.00	\$1,200.00	1,500.00	\$3,000.00
11200	Business Directional Signs	1	FA	10,000.00	\$10,000.00	10,000.00	\$10,000.00
11202	* Remove & Reset Existing Mailbox	1	EA	450.00	\$450.00	500.00	\$500.00
11210	* Cement Concrete Extruded Curb	50	LF	13.00	\$650.00	20.00	\$1,000.00
11215	Storm Sewer Pipe 12" Diameter	120	LF	165.00	\$19,800.00	100.00	\$12,000.00
11230	Remove Existing Oil/Water Separator	1	EA	4,000.00	\$4,000.00	2,500.00	\$2,500.00
11235	Trash Screen, 12" Diameter	2	EA	650.00	\$1,300.00	500.00	\$1,000.00
11240	* Inlet Protection	4	EA	100.00	\$400.00	105.00	\$420.00
11245	Oil/Water Separator	1	EA	25,000.00	\$25,000.00	15,000.00	\$15,000.00
11255	* Remove Fence & Gates	500	LF	11.00	\$5,500.00	15.00	\$7,500.00
11280	Chain Link Fence, Type 1 for Pond	170	LF	50.00	\$8,500.00	60.00	\$10,200.00

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ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
11281	Double 20 Ft. Chain Link Gate	1	EA	2,300.00	\$2,300.00	3,000.00	\$3,000.00
11282 *	Chain Link Fence Type 3	350	LF	28.00	\$9,800.00	50.00	\$17,500.00
11290	Furnish & Install Steel Ornamental Automated 30 Foot Gate	2	EA	50,000.00	\$100,000.00	30,000.00	\$60,000.00
11295	Single 6 Ft. Chain Link Walk Gate for Pond	1	EA	1,200.00	\$1,200.00	500.00	\$500.00
11300	Erosion/Water Pollution Control	1	FA	5,000.00	\$5,000.00	5,000.00	\$5,000.00
11325	Sod Installation	170	SY	20.00	\$3,400.00	12.00	\$2,040.00
11335 *	Seeding, Fertilizing & Mulching	0.1	AC	6,500.00	\$650.00	3,000.00	\$300.00
11340	Furnish & Install 6' Steel Ornamental Fence	100	LF	150.00	\$15,000.00	130.00	\$13,000.00
11355	Minor Changes	1	CALC	15,000.00	\$15,000.00	15,000.00	\$15,000.00
11365	Landscaping	1	FA	5,000.00	\$5,000.00	5,000.00	\$5,000.00
11390	Quarry Spalls	70	TON	85.00	\$5,950.00	75.00	\$5,250.00
SCHEDULE XI TOTAL					\$703,902.50		\$640,520.00
SUMMARY:							
SCHEDULE I TOTAL					\$2,375,890.00		\$1,800,300.00
SCHEDULE II TOTAL					\$1,852,856.50		\$3,111,102.50
SCHEDULE IV TOTAL					\$90,150.00		\$152,850.00
SCHEDULE V TOTAL					\$466,600.00		\$404,000.00
SCHEDULE VI TOTAL					\$7,500.00		\$14,000.00
SCHEDULE VII TOTAL					\$90,300.00		\$103,950.00
SCHEDULE VIII TOTAL					\$52,000.00		\$44,500.00
SCHEDULE IX TOTAL					\$1,040,225.00		\$594,625.00
SCHEDULE X TOTAL					\$3,687,750.00		\$2,793,000.00
SCHEDULE XI TOTAL					\$703,902.50		\$640,520.00
CONSTRUCTION CONTRACT TOTAL					\$10,367,174.00		\$9,658,847.50