

City of Beaverton  
**BID TABULATION**  
 COOPER MOUNTAIN RESERVOIR NO. 2 AND ASSOCIATED IMPROVEMENTS, CIP 4058A  
 Solicitation #3624-20B

SCHEDULE A - COOPER MOUNTAIN RESERVOIR NO. 2				Emery & Sons Construction Group, LLC - Salem, OR		ROTSCHY INC - Vancouver, WA		The Natt McDougall Company - Tualatin, OR	
ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
A-1	Mobilization, bonds, permitting, insurance, and demobilization	1	LS	\$ 880,000.00	\$ 880,000.00	\$ 996,200.00	\$ 996,200.00	\$ 925,000.00	\$ 925,000.00
<b>Reservoir No. 2 and On-Site Improvements</b>									
A-2	All work required to construct a 5.5 MG prestressed concrete reservoir, complete, other than as provided for under separate unit prices, will be made on a single lump sum basis. General work categories are described in the price breakdown below, with the sum of Items (a) through (o) below being equal to the total lump sum for Bid Item A-2:								
	a. Shop drawings and approvals	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 1,500.00	\$ 1,500.00	\$ 38,000.00	\$ 38,000.00
	b. Erosion control plan and maintenance	1	LS	\$ 60,000.00	\$ 60,000.00	\$ 60,000.00	\$ 60,000.00	\$ 85,000.00	\$ 85,000.00
	c. Construction survey and staking	1	LS	\$ 26,000.00	\$ 26,000.00	\$ 30,000.00	\$ 30,000.00	\$ 50,000.00	\$ 50,000.00
	d. Tree protection, removal, clearing, and grubbing	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 60,000.00	\$ 60,000.00	\$ 25,000.00	\$ 25,000.00
	e. Dewatering	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 5,000.00	\$ 5,000.00	\$ 65,000.00	\$ 65,000.00
	f. Site preparation, excavation, backfill, and grading	1	LS	\$ 1,510,000.00	\$ 1,510,000.00	\$ 1,700,000.00	\$ 1,700,000.00	\$ 3,300,000.00	\$ 3,300,000.00
	g. Reservoir construction, including reservoir membrane-slab foundation; underdrain, foundation, radial, and French drain piping to STM MHs P1 and P2; access hatches; roof vent; interior piping and pipe blocks; interior ladder with fall prevention systems; and all other accessories as noted and shown in the Drawings	1	LS	\$ 5,107,000.00	\$ 5,107,000.00	\$ 5,887,100.00	\$ 5,887,100.00	\$ 5,500,000.00	\$ 5,500,000.00
	h. Reservoir active mixing system	1	LS	\$ 170,000.00	\$ 170,000.00	\$ 130,000.00	\$ 130,000.00	\$ 300,000.00	\$ 300,000.00
	i. Reservoir testing, disinfection, and start-up	1	LS	\$ 5,000.00	\$ 5,000.00	\$ 2,000.00	\$ 2,000.00	\$ 61,000.00	\$ 61,000.00
	j. Sanitary improvements	1	LS	\$ 43,700.00	\$ 43,700.00	\$ 25,000.00	\$ 25,000.00	\$ 30,000.00	\$ 30,000.00
	k. Site access roads with surfacing, drainage ditches, and features as noted and shown in the Drawings	1	LS	\$ 235,000.00	\$ 235,000.00	\$ 225,000.00	\$ 225,000.00	\$ 210,000.00	\$ 210,000.00
	l. Landscaping to include soil, preparation, grass seeding, plantings, and jute matting	1	LS	\$ 250,000.00	\$ 250,000.00	\$ 175,000.00	\$ 175,000.00	\$ 364,000.00	\$ 364,000.00
	m. Site fencing improvements, including exterior and interior access gates	1	LS	\$ 130,000.00	\$ 130,000.00	\$ 140,000.00	\$ 140,000.00	\$ 145,000.00	\$ 145,000.00
	n. Retaining wall	1	LS	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 40,000.00	\$ 40,000.00
o. Final site grading, surface restoration, site clean-up, and demobilization	1	LS	\$ 38,000.00	\$ 38,000.00	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00	\$ 30,000.00	
A-2 Subtotal					\$ 7,672,700.00		\$ 8,483,600.00		\$ 10,243,000.00
A-3	Rock excavation for various site features:								
	a. Reservoir structure	3500	CY	\$ 30.00	\$ 105,000.00	\$ 80.00	\$ 280,000.00	\$ 40.00	\$ 140,000.00
	b. Site stormwater detention facility	750	CY	\$ 30.00	\$ 22,500.00	\$ 103.00	\$ 77,250.00	\$ 40.00	\$ 30,000.00
	c. Sanitary improvements	5	CY	\$ 30.00	\$ 150.00	\$ 300.00	\$ 1,500.00	\$ 300.00	\$ 1,500.00
A-3 Subtotal					\$ 127,650.00		\$ 358,750.00		\$ 171,500.00
A-4	Additional cost for overexcavation and select backfill material for unsuitable conditions								
	a. Reservoir structure, crushed rock	1200	CY	\$ 75.00	\$ 90,000.00	\$ 50.00	\$ 60,000.00	\$ 40.00	\$ 48,000.00
	b. Reservoir structure, lean concrete	100	CY	\$ 230.00	\$ 23,000.00	\$ 5.00	\$ 500.00	\$ 160.00	\$ 16,000.00
	b. Site stormwater detention facility	600	CY	\$ 75.00	\$ 45,000.00	\$ 138.00	\$ 82,800.00	\$ 25.00	\$ 15,000.00
A-4 Subtotal					\$ 158,000.00		\$ 143,300.00		\$ 79,000.00
A-5	Electrical, instrumentation and control, telemetry equipment, and SCADA equipment associated with work under this schedule will be paid on a lump sum basis. System integration work under all schedules is paid under Bid Item C-5. General work categories are described in the price breakdown below, with the sum of Items (a) through (b) below being equal to the total lump sum for Bid Item A-5:								
	a. Existing service transfer	1	LS	\$ 6,500.00	\$ 6,500.00	\$ 38,000.00	\$ 38,000.00	\$ 30,000.00	\$ 30,000.00
	b. Remaining Schedule A electrical work	1	LS	\$ 71,000.00	\$ 71,000.00	\$ 340,000.00	\$ 340,000.00	\$ 360,000.00	\$ 360,000.00
A-5 Subtotal					\$ 77,500.00		\$ 378,000.00		\$ 390,000.00

A-6	Furnish and install restrained, Special Thickness Class 52, zinc-coated, ductile iron pipe, wrapped in two layers of polyethylene, with Class B (imported granular material) trench backfill:									
	a. 24-inch diameter									
	i. (0-10 feet)									
	1. STA F1+60 to STA F2+20	60	LF	\$ 290.00	\$ 17,400.00	\$ 333.00	\$ 19,980.00	\$ 346.00	\$ 20,760.00	
	ii. (10-20 feet)									
	1. STA A1+16 to STA A2+01	85	LF	\$ 510.00	\$ 43,350.00	\$ 495.00	\$ 42,075.00	\$ 458.00	\$ 38,930.00	
	2. STA A2+28 to STA A2+87	59	LF	\$ 535.00	\$ 31,565.00	\$ 530.00	\$ 31,270.00	\$ 457.00	\$ 26,963.00	
	3. STA F2+20 to STA F2+83	63	LF	\$ 410.00	\$ 25,830.00	\$ 466.00	\$ 29,358.00	\$ 380.00	\$ 23,940.00	
	iii. (20-30 feet)									
	1. STA B1+00 to STA B1+44	44	LF	\$ 690.00	\$ 30,360.00	\$ 530.00	\$ 23,320.00	\$ 460.00	\$ 20,240.00	
	2. STA B1+79 to STA B2+01	22	LF	\$ 640.00	\$ 14,080.00	\$ 615.00	\$ 13,530.00	\$ 460.00	\$ 10,120.00	
	3. STA B2+28 to STA B2+80	52	LF	\$ 783.00	\$ 40,716.00	\$ 620.00	\$ 32,240.00	\$ 460.00	\$ 23,920.00	
	4. STA C3+78 to STA C4+49	71	LF	\$ 654.00	\$ 46,434.00	\$ 550.00	\$ 39,050.00	\$ 460.00	\$ 32,660.00	
	5. STA D1+00 to STA D1+48	48	LF	\$ 782.00	\$ 37,536.00	\$ 580.00	\$ 27,840.00	\$ 470.00	\$ 22,560.00	
	b. 18-inch diameter									
	i. (0-10 feet)									
	1. Booster Pump Station discharge piping	90	LF	\$ 262.00	\$ 23,580.00	\$ 210.00	\$ 18,900.00	\$ 375.00	\$ 33,750.00	
	2. Booster Pump Station bypass piping	47	LF	\$ 280.00	\$ 13,160.00	\$ 230.00	\$ 10,810.00	\$ 375.00	\$ 17,625.00	
	ii. (10-20 feet)									
	1. STA E1+00 to STA E2+30	130	LF	\$ 440.00	\$ 57,200.00	\$ 355.00	\$ 46,150.00	\$ 400.00	\$ 52,000.00	
	c. 12-inch diameter									
	i. (0-10 feet)									
	1. STA F1+00 to STA F1+60	60	LF	\$ 156.00	\$ 9,360.00	\$ 170.00	\$ 10,200.00	\$ 165.00	\$ 9,900.00	
	2. STA G1+00 to STA G2+57	157	LF	\$ 157.00	\$ 24,649.00	\$ 130.00	\$ 20,410.00	\$ 160.00	\$ 25,120.00	
	3. STA H1+00 to STA H2+20	120	LF	\$ 193.00	\$ 23,160.00	\$ 162.00	\$ 19,440.00	\$ 180.00	\$ 21,600.00	
	ii. (10-20 feet)									
	1. STA H2+20 to STA H3+00	80	LF	\$ 378.00	\$ 30,240.00	\$ 242.00	\$ 19,360.00	\$ 220.00	\$ 17,600.00	
iii. (20-30 feet)					280					
1. STA H3+00 to STA H4+32	132	LF	\$ 518.00	\$ 68,376.00	\$ 325.00	\$ 42,900.00	\$ 280.00	\$ 36,960.00		
d. 10-inch diameter										
i. (0-10 feet)										
1. STA K1+00 to STA K4+06	306	LF	\$ 122.00	\$ 37,332.00	\$ 135.00	\$ 41,310.00	\$ 245.00	\$ 74,970.00		
e. 8-inch diameter										
i. (0-10 feet)										
1. STA J1+00 to STA J3+70	270	LF	\$ 146.00	\$ 39,420.00	\$ 126.00	\$ 34,020.00	\$ 112.00	\$ 30,240.00		
A-6 Subtotal				\$ 613,748.00		\$ 522,163.00		\$ 539,858.00		
A-7	Furnish and install restrained, Special Thickness Class 55, zinc-coated, ductile iron pipe, wrapped in two layers of polyethylene, with Class A (compacted native material) trench backfill:									
a. 24-inch diameter										
i. (25-40 feet)										
1. STA B2+80 to STA B5+67	287	LF	\$ 515.00	\$ 147,805.00	\$ 485.00	\$ 139,195.00	\$ 515.00	\$ 147,805.00		
A-8	Furnish and install zinc-coated ductile iron pipe fittings	42,000	LB	\$ 6.50	\$ 273,000.00	\$ 3.75	\$ 157,500.00	\$ 5.00	\$ 210,000.00	
A-9	Furnish and install buried butterfly valves:									
a. 24-inch diameter, FLG	2	EA	\$ 7,500.00	\$ 15,000.00	\$ 14,000.00	\$ 28,000.00	\$ 10,000.00	\$ 20,000.00		
b. 20-inch diameter, FLG	2	EA	\$ 6,000.00	\$ 12,000.00	\$ 12,000.00	\$ 24,000.00	\$ 10,000.00	\$ 20,000.00		
c. 18-inch diameter, FLG	2	EA	\$ 5,600.00	\$ 11,200.00	\$ 7,800.00	\$ 15,600.00	\$ 7,500.00	\$ 15,000.00		
d. 18-inch diameter, MJ	1	EA	\$ 5,025.00	\$ 5,025.00	\$ 6,500.00	\$ 6,500.00	\$ 6,000.00	\$ 6,000.00		
e. 12-inch diameter, FLG	4	EA	\$ 3,750.00	\$ 15,000.00	\$ 4,100.00	\$ 16,400.00	\$ 4,000.00	\$ 16,000.00		
A-9 Subtotal				\$ 58,225.00		\$ 90,500.00		\$ 77,000.00		
A-10	Furnish and install flexible expansion joints:									
a. 24-inch diameter, FLGxMJ	3	EA	\$ 23,700.00	\$ 71,100.00	\$ 5,400.00	\$ 16,200.00	\$ 25,000.00	\$ 75,000.00		
b. 20-inch diameter, FLGxMJ	3	EA	\$ 18,525.00	\$ 55,575.00	\$ 17,000.00	\$ 51,000.00	\$ 20,000.00	\$ 60,000.00		
c. 18-inch diameter, FLGxMJ	1	EA	\$ 17,600.00	\$ 17,600.00	\$ 16,000.00	\$ 16,000.00	\$ 20,000.00	\$ 20,000.00		
d. 12-inch diameter, FLGxMJ	1	EA	\$ 8,875.00	\$ 8,875.00	\$ 8,000.00	\$ 8,000.00	\$ 10,000.00	\$ 10,000.00		
A-10 Subtotal				\$ 153,150.00		\$ 91,200.00		\$ 165,000.00		
A-11	Furnish and install permanent blow-off assemblies:									
a. 2-inch diameter	4	EA	\$ 4,025.00	\$ 16,100.00	\$ 2,000.00	\$ 8,000.00	\$ 15,000.00	\$ 60,000.00		
A-12	Furnish and install private fire service	1	LS	\$ 46,000.00	\$ 46,000.00	\$ 28,000.00	\$ 28,000.00	\$ 50,000.00	\$ 50,000.00	
A-13	Furnish and install 1 1/2" water service connection	1	LS	\$ 15,830.00	\$ 15,830.00	\$ 11,500.00	\$ 11,500.00	\$ 18,000.00	\$ 18,000.00	
A-14	Hydrostatic testing, flushing, and disinfection of water mains	1	LS	\$ 19,700.00	\$ 19,700.00	\$ 15,000.00	\$ 15,000.00	\$ 60,000.00	\$ 60,000.00	
A-15	Connections to existing water system piping:									
a. Connect to 20-inch diameter water main (STA A2+87)	1	EA	\$ 7,050.00	\$ 7,050.00	\$ 14,000.00	\$ 14,000.00	\$ 25,000.00	\$ 25,000.00		
b. Connect to 20-inch diameter reservoir outlet pipe (STA C3+87)	1	EA	\$ 4,725.00	\$ 4,725.00	\$ 11,500.00	\$ 11,500.00	\$ 22,000.00	\$ 22,000.00		
c. Connect to 20-inch diameter reservoir inlet pipe (Alignment A)	1	EA	\$ 4,725.00	\$ 4,725.00	\$ 7,700.00	\$ 7,700.00	\$ 20,000.00	\$ 20,000.00		
d. Connect to 12-inch diameter reservoir pump suction line (Alignment E)	1	EA	\$ 3,550.00	\$ 3,550.00	\$ 3,400.00	\$ 3,400.00	\$ 20,000.00	\$ 20,000.00		
e. Connect to 20-inch diameter reservoir overflow pipe (Alignment Q)	1	EA	\$ 4,725.00	\$ 4,725.00	\$ 6,000.00	\$ 6,000.00	\$ 20,000.00	\$ 20,000.00		
f. Connect to 20-inch diameter reservoir outlet pipe (STA C1+00)	1	EA	\$ 4,725.00	\$ 4,725.00	\$ 11,000.00	\$ 11,000.00	\$ 20,000.00	\$ 20,000.00		
A-15 Subtotal				\$ 29,500.00		\$ 53,600.00		\$ 127,000.00		
A-16	Existing utility abandonment	1	LS	\$ 30,000.00	\$ 30,000.00	\$ 7,000.00	\$ 7,000.00	\$ 30,000.00	\$ 30,000.00	
A-17	Furnish and install chemical sampling and injection conduit system	1	EA	\$ 89,000.00	\$ 89,000.00	\$ 50,000.00	\$ 50,000.00	\$ 52,000.00	\$ 52,000.00	
A-18	Furnish and install non-restrained, Special Thickness Class 52, zinc-coated, ductile iron pipe, wrapped in two layers of polyethylene, with Class B (imported granular material) trench backfill:									
a. 24-inch diameter										
i. STA P1+00 to STA P1+94	94	LF	\$ 440.00	\$ 41,360.00	\$ 470.00	\$ 44,180.00	\$ 320.00	\$ 30,080.00		
b. 20-inch diameter										
i. STA Q1+00 to STA Q2+00	100	LF	\$ 405.00	\$ 40,500.00	\$ 500.00	\$ 50,000.00	\$ 296.00	\$ 29,600.00		
c. 18-inch diameter										
i. Reservoir No. 2 drain piping	17	LF	\$ 160.00	\$ 2,720.00	\$ 105.00	\$ 1,785.00	\$ 285.00	\$ 4,845.00		
A-18 Subtotal				\$ 84,580.00		\$ 95,965.00		\$ 64,525.00		

A-19	Furnish and install PVC drain pipe with Class B (imported granular material) trench backfill:									
	a. 24-inch diameter									
	i. STA P1+94 to STA P2+84	90	LF	\$ 225.00	\$ 20,250.00	\$ 325.00	\$ 29,250.00	\$ 225.00	\$ 20,250.00	
	b. 10-inch diameter									
	i. STA W1+00 to STA W8+75	775	LF	\$ 121.00	\$ 93,775.00	\$ 98.00	\$ 75,950.00	\$ 103.00	\$ 79,825.00	
	c. 8-inch diameter									
	i. STA V1+00 to STA V2+14	114	LF	\$ 133.00	\$ 15,162.00	\$ 134.00	\$ 15,276.00	\$ 109.00	\$ 12,426.00	
ii. Additional storm drain piping	130	LF	\$ 158.00	\$ 20,540.00	\$ 129.00	\$ 16,770.00	\$ 103.00	\$ 13,390.00		
A-19 Subtotal					\$ 149,727.00		\$ 137,246.00		\$ 125,891.00	
A-20	Furnish and install 84-inch diameter reservoir monitoring manhole	1	EA	\$ 21,500.00	\$ 21,500.00	\$ 7,000.00	\$ 7,000.00	\$ 13,000.00	\$ 13,000.00	
A-21	Furnish and install 72-inch diameter air gap manhole	1	EA	\$ 26,200.00	\$ 26,200.00	\$ 9,000.00	\$ 9,000.00	\$ 20,000.00	\$ 20,000.00	
A-22	Furnish and install 48-inch diameter storm manholes	2	EA	\$ 4,700.00	\$ 9,400.00	\$ 3,250.00	\$ 6,500.00	\$ 7,000.00	\$ 14,000.00	
A-23	Furnish and install catch basins/ditch inlets	9	EA	\$ 2,725.00	\$ 24,525.00	\$ 2,200.00	\$ 19,800.00	\$ 2,500.00	\$ 22,500.00	
A-24	All work required to construct the site stormwater detention facility, complete, other than as provided for under separate unit prices, will be made on a single lump sum basis. General work categories are described in the price breakdown below, with the sum of Items (a) through (l) being equal to the total lump sum for Bid Item A-23:									
	a. Furnish and install class 50 rip rap outfalls	32	CY	\$ 60.00	\$ 1,920.00	\$ 100.00	\$ 3,200.00	\$ 60.00	\$ 1,920.00	
	b. Furnish and install class 100 rip rap outfalls	25	CY	\$ 62.00	\$ 1,550.00	\$ 100.00	\$ 2,500.00	\$ 60.00	\$ 1,500.00	
	c. Furnish and install PVC drain pipe with Class A (compacted native material) trench backfill									
	i. 24-inch diameter									
	1. STA T0+34 to STA T2+78	244	LF	\$ 160.00	\$ 39,040.00	\$ 190.00	\$ 46,360.00	\$ 160.00	\$ 39,040.00	
	ii. 18-inch diameter									
	1. STA U0+00 to STA U0+05	5	LF	\$ 365.00	\$ 1,825.00	\$ 1,750.00	\$ 8,750.00	\$ 175.00	\$ 875.00	
	iii. 15-inch diameter									
	1. STA R0+63 to STA R1+20	57	LF	\$ 127.00	\$ 7,239.00	\$ 198.00	\$ 11,286.00	\$ 115.00	\$ 6,555.00	
	2. STA T2+78 to STA T3+36	58	LF	\$ 120.00	\$ 6,960.00	\$ 295.00	\$ 17,110.00	\$ 115.00	\$ 6,670.00	
	d. Furnish and install PVC drain pipe with Class B (imported granular material) trench backfill									
	i. 18-inch diameter									
	1. STA U0+05 to STA U1+12	107	LF	\$ 218.00	\$ 23,326.00	\$ 99.00	\$ 10,593.00	\$ 103.00	\$ 11,021.00	
	ii. 15-inch diameter									
	1. STA R1+20 to STA R2+05	85	LF	\$ 158.00	\$ 13,430.00	\$ 84.00	\$ 7,140.00	\$ 90.00	\$ 7,650.00	
	e. Excavation, backfill, and grading (in native material) to include temporary construction shoring as needed	2600	CY	\$ 30.00	\$ 78,000.00	\$ 25.00	\$ 65,000.00	\$ 50.00	\$ 130,000.00	
	f. Furnish and install 40 mil PVC liner membrane	7550	SF	\$ 2.50	\$ 18,875.00	\$ 1.60	\$ 12,080.00	\$ 3.00	\$ 22,650.00	
	g. Furnish and install pipe collar	1	LS	\$ 2,075.00	\$ 2,075.00	\$ 1,000.00	\$ 1,000.00	\$ 8,000.00	\$ 8,000.00	
h. Furnish and install 60-inch diameter standard manhole	2	EA	\$ 10,525.00	\$ 21,050.00	\$ 7,000.00	\$ 14,000.00	\$ 11,500.00	\$ 23,000.00		
i. Furnish and install 60-inch diameter water quality manhole	1	EA	\$ 10,700.00	\$ 10,700.00	\$ 5,000.00	\$ 5,000.00	\$ 12,100.00	\$ 12,100.00		
j. Furnish and install 60-inch diameter flow control manhole	1	EA	\$ 15,100.00	\$ 15,100.00	\$ 8,000.00	\$ 8,000.00	\$ 14,500.00	\$ 14,500.00		
k. Furnish and install ditch inlet	1	EA	\$ 2,725.00	\$ 2,725.00	\$ 1,800.00	\$ 1,800.00	\$ 3,000.00	\$ 3,000.00		
l. Furnish and install topsoil, 18-inch depth	600	CY	\$ 60.00	\$ 36,000.00	\$ 25.00	\$ 15,000.00	\$ 25.00	\$ 15,000.00		
A-24 Subtotal					\$ 279,815.00		\$ 228,819.00		\$ 303,481.00	
A-25	Stormwater facilities and drainage system testing and start-up	1	LS	\$ 2,500.00	\$ 2,500.00	\$ 1,500.00	\$ 1,500.00	\$ 20,000.00	\$ 20,000.00	
A-26	Additional cost for utility trench rock excavation	1400	CY	\$ 30.00	\$ 42,000.00	\$ 150.00	\$ 210,000.00	\$ 45.00	\$ 63,000.00	
A-27	Additional cost for overexcavation and select backfill material for unsuitable trench conditions	5000	CY	\$ 75.00	\$ 375,000.00	\$ 5.00	\$ 25,000.00	\$ 40.00	\$ 200,000.00	
A-28	Improvements to existing 5.5 MG concrete reservoir	1	LS	\$ 198,000.00	\$ 198,000.00	\$ 160,000.00	\$ 160,000.00	\$ 365,000.00	\$ 365,000.00	
A-29	Improvements to existing meter manhole (C1+96)	1	LS	\$ 30,000.00	\$ 30,000.00	\$ 5,000.00	\$ 5,000.00	\$ 25,000.00	\$ 25,000.00	
<b>Off-Site Improvements</b>										
A-30	Traffic control, complete	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 43,000.00	\$ 43,000.00	\$ 85,000.00	\$ 85,000.00	
A-31	Furnish and install restrained, Special Thickness Class 52, zinc-coated, ductile iron pipe, wrapped in two layers of polyethylene, with Class B (imported granular material) trench backfill:									
	a. 24-inch diameter									
	i. (0 – 10 feet)									
	1. STA B11+40 to STA B19+31	791	LF	\$ 325.00	\$ 257,075.00	\$ 350.00	\$ 276,850.00	\$ 500.00	\$ 395,500.00	
	ii. (10 – 20 feet)									
1. STA B8+20 to STA B11+40	320	LF	\$ 510.00	\$ 163,200.00	\$ 540.00	\$ 172,800.00	\$ 725.00	\$ 232,000.00		
iii. (20 – 30 feet)										
1. STA B5+67 to STA B8+20	253	LF	\$ 645.00	\$ 163,185.00	\$ 835.00	\$ 211,255.00	\$ 965.00	\$ 244,145.00		
A-31 Subtotal					\$ 583,460.00		\$ 660,905.00		\$ 871,645.00	
A-32	Furnish and install zinc-coated ductile iron pipe fittings	5500	LB	\$ 6.50	\$ 35,750.00	\$ 5.00	\$ 27,500.00	\$ 5.00	\$ 27,500.00	
A-33	Furnish and install buried gate valves:									
	a. 24-inch diameter, MJ	1	EA	\$ 6,400.00	\$ 6,400.00	\$ 24,000.00	\$ 24,000.00	\$ 12,000.00	\$ 12,000.00	
A-34	Furnish and install 6-inch combination air valve (CARV) assemblies	1	EA	\$ 20,700.00	\$ 20,700.00	\$ 17,000.00	\$ 17,000.00	\$ 17,000.00	\$ 17,000.00	
A-35	Hydrostatic testing, flushing, and disinfection of water mains	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 3,000.00	\$ 3,000.00	\$ 18,000.00	\$ 18,000.00	
A-36	Connections to existing water system piping									
	a. Connect to 24-inch diameter water main	1	EA	\$ 60,000.00	\$ 60,000.00	\$ 6,000.00	\$ 6,000.00	\$ 16,000.00	\$ 16,000.00	
A-37	Additional cost for utility trench rock excavation	500	CY	\$ 30.00	\$ 15,000.00	\$ 150.00	\$ 75,000.00	\$ 80.00	\$ 40,000.00	
A-38	Overexcavation and select backfill material for unsuitable trench conditions	2500	CY	\$ 75.00	\$ 187,500.00	\$ 5.00	\$ 12,500.00	\$ 45.00	\$ 112,500.00	
A-39	Saw-cutting existing AC pavement and concrete surfacing	2700	LF	\$ 1.50	\$ 4,050.00	\$ 1.00	\$ 2,700.00	\$ 2.00	\$ 5,400.00	
A-40	Grind and install 2-inch thick AC inlay	3600	SY	\$ 14.00	\$ 50,400.00	\$ 16.50	\$ 59,400.00	\$ 18.00	\$ 64,800.00	
A-41	Placement of new road striping	1340	LF	\$ 1.25	\$ 1,675.00	\$ 1.00	\$ 1,340.00	\$ 6.00	\$ 8,040.00	
A-42	Hot mix asphaltic concrete roadway surfacing	405	TON	\$ 168.00	\$ 68,040.00	\$ 160.00	\$ 64,800.00	\$ 160.00	\$ 64,800.00	
SUBTOTAL FOR SCHEDULE A					\$ 12,744,130.00		\$ 13,436,483.00		\$ 15,924,245.00	

SCHEDULE B - CONTROL VALVE VAULT AND OPERATIONS BUILDING				Emery & Sons Construction Group, LLC - Salem, OR		ROTSCHY INC - Vancouver, WA		The Natt McDougall Company - Tualatin, OR	
ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
B-1	Mobilization, bonds, permitting, insurance, and demobilization	1	LS	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 270,000.00	\$ 270,000.00
	All work required to construct cast-in-place concrete control valve vault and CMU operations building, complete, other than as provided for under separate unit prices, will be made on a single lump sum basis. General work categories are described in the price breakdown below, with the sum of Items (a) through (f) being equal to the total lump sum for Bid Item B-2:								
	a. Shop drawings and approvals	1	LS	\$ 4,500.00	\$ 4,500.00	\$ 5,000.00	\$ 5,000.00	\$ 25,000.00	\$ 25,000.00
	b. Dewatering	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 3,000.00	\$ 3,000.00	\$ 20,000.00	\$ 20,000.00
	c. Excavation, backfill, and grading to include temporary construction shoring as needed	1	LS	\$ 175,000.00	\$ 175,000.00	\$ 55,000.00	\$ 55,000.00	\$ 500,000.00	\$ 500,000.00
	d. Cast-in-place vault construction, to include stairs, platforms, and handrails; valves; piping not included in other Bid Items; fittings; foundation and floor drain piping to STM MH P2; plumbing; HVAC; and other accessories noted and shown in the Drawings	1	LS	\$ 1,195,000.00	\$ 1,195,000.00	\$ 1,075,000.00	\$ 1,075,000.00	\$ 1,305,000.00	\$ 1,305,000.00
	e. CMU building construction, to include HVAC, chemical systems, and other accessories noted and shown in the Drawings	1	LS	\$ 143,000.00	\$ 143,000.00	\$ 190,000.00	\$ 190,000.00	\$ 405,000.00	\$ 405,000.00
	f. Facility start-up and testing	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 8,000.00	\$ 8,000.00	\$ 20,000.00	\$ 20,000.00
	B-2 Subtotal				\$ 1,537,500.00		\$ 1,336,000.00		\$ 2,275,000.00
B-3	Additional cost for rock excavation	600	CY	\$ 30.00	\$ 18,000.00	\$ 80.00	\$ 48,000.00	\$ 70.00	\$ 42,000.00
B-4	Overexcavation and select backfill material for unsuitable foundation conditions	50	CY	\$ 75.00	\$ 3,750.00	\$ 5.00	\$ 250.00	\$ 55.00	\$ 2,750.00
B-5	Lighting and other electrical work for vault; instrumentation, control & telemetry for vault. System integration work under all schedules is paid under Bid Item C-5	1	LS	\$ 172,000.00	\$ 172,000.00	\$ 165,000.00	\$ 165,000.00	\$ 475,000.00	\$ 475,000.00
SUBTOTAL FOR SCHEDULE B					\$ 1,736,250.00		\$ 1,554,250.00		\$ 3,064,750.00

SCHEDULE C - ASR MECHANICAL BUILDING AND WELL NO. 7 IMPROVEMENTS				Emery & Sons Construction Group, LLC - Salem, OR		ROTSCHY INC - Vancouver, WA		The Natt McDougall Company - Tualatin, OR	
ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
C-1	Mobilization, bonds, permitting, insurance, and demobilization	1	LS	\$ 2,500.00	\$ 2,500.00	\$ 50,000.00	\$ 50,000.00	\$ 25,000.00	\$ 25,000.00
C-2	All work required to construct ASR Mechanical Building and Well No. 7, complete, other than as provided for under separate unit prices. Work items include CMU-style building; interior piping, control valves, HVAC and plumbing; deep well vertical turbine pump and motor; well head enclosure; and incidental work as specified and necessary. Includes standby generator with automatic transfer switch and external fuel storage tank	1	LS	\$ 2,170,000.00	\$ 2,170,000.00	\$ 2,250,000.00	\$ 2,250,000.00	\$ 2,375,000.00	\$ 2,375,000.00
C-3	Additional cost for rock excavation	150	CY	\$ 30.00	\$ 4,500.00	\$ 115.00	\$ 17,250.00	\$ 70.00	\$ 10,500.00
C-4	Overexcavation and select backfill material for unsuitable foundation conditions	150	CY	\$ 75.00	\$ 11,250.00	\$ 5.00	\$ 750.00	\$ 65.00	\$ 9,750.00
C-5	Electrical including electrical service, motor control panels and distribution; plus instrumentation, control & telemetry for this building, and system integration work under all schedules.	1	LS	\$ 1,037,000.00	\$ 1,037,000.00	\$ 1,200,000.00	\$ 1,200,000.00	\$ 1,063,000.00	\$ 1,063,000.00
SUBTOTAL FOR SCHEDULE C					\$ 3,225,250.00		\$ 3,518,000.00		\$ 3,483,250.00

SCHEDULE D - UPPER ZONE BOOSTER PUMP STATION				Emery & Sons Construction Group, LLC - Salem, OR		ROTSCHY INC - Vancouver, WA		The Natt McDougall Company - Tualatin, OR	
ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
D-1	Mobilization, bonds, permitting, insurance, and demobilization	1	LS	\$ 2,500.00	\$ 2,500.00	\$ 15,000.00	\$ 15,000.00	\$ 50,000.00	\$ 50,000.00
D-2	All work required to construct potable water pump station building, complete, other than as provided for under separate unit prices. Anticipated work items include CMU-style building construction; pump station interior piping and valves; electrical service; HVAC and plumbing; and incidental work as specified and necessary.	1	LS	\$ 675,000.00	\$ 675,000.00	\$ 780,000.00	\$ 780,000.00	\$ 810,000.00	\$ 810,000.00
D-3	Additional cost for rock excavation	75	CY	\$ 30.00	\$ 2,250.00	\$ 115.00	\$ 8,625.00	\$ 40.00	\$ 3,000.00
D-4	Overexcavation and select backfill material for unsuitable foundation conditions	75	CY	\$ 75.00	\$ 5,625.00	\$ 5.00	\$ 375.00	\$ 70.00	\$ 5,250.00
D-5	Lighting and other electrical work for building, instrumentation, control & telemetry for this building. System integration work under all schedules is paid under Bid Item C-5.	1	LS	\$ 145,000.00	\$ 145,000.00	\$ 150,000.00	\$ 150,000.00	\$ 205,000.00	\$ 205,000.00
SUBTOTAL FOR SCHEDULE D					\$ 830,375.00		\$ 954,000.00		\$ 1,073,250.00

SCHEDULE E - STORAGE BUILDING				Emery & Sons Construction Group, LLC - Salem, OR		ROTSCHY INC - Vancouver, WA		The Natt McDougall Company - Tualatin, OR	
ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
E-1	Mobilization, bonds, permitting, insurance, and demobilization	1	LS	\$ 2,500.00	\$ 2,500.00	\$ 27,000.00	\$ 27,000.00	\$ 50,000.00	\$ 50,000.00
E-2	All work required to construct the storage building, complete, other than as provided for under separate unit prices. Anticipated work items include foundation excavation and subgrade preparation; prefabricated metal building; instrumentation and controls; lighting and other electrical work; HVAC and plumbing; and incidental work as specified and necessary.	1	LS	\$ 515,000.00	\$ 515,000.00	\$ 450,000.00	\$ 450,000.00	\$ 950,000.00	\$ 950,000.00
E-3	Additional cost for rock excavation	100	CY	\$ 30.00	\$ 3,000.00	\$ 115.00	\$ 11,500.00	\$ 40.00	\$ 4,000.00
E-4	Overexcavation and select backfill material for unsuitable foundation conditions	200	CY	\$ 75.00	\$ 15,000.00	\$ 5.00	\$ 1,000.00	\$ 70.00	\$ 14,000.00
E-5	Lighting and other electrical work for building; instrumentation, control & telemetry for this building. System integration work under all schedules is paid under Bid Item C-5	1	LS	\$ 40,000.00	\$ 40,000.00	\$ 25,000.00	\$ 25,000.00	\$ 65,000.00	\$ 65,000.00
SUBTOTAL FOR SCHEDULE E					\$ 575,500.00		\$ 514,500.00		\$ 1,083,000.00

SCHEDULE F - ASR 7 WELL ALTERATION AND AQUIFER TESTING				Emery & Sons Construction Group, LLC - Salem, OR	ROTSCHY INC - Vancouver, WA	The Natt McDougall Company - Tualatin, OR			
ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
<b>GENERAL</b>									
F-1	Erosion Control.	1	LS	\$ 7,745.00	\$ 7,745.00	\$ 10,000.00	\$ 10,000.00	\$ 25,000.00	\$ 25,000.00
F-2	Water Management.	1	LS	\$ 18,500.00	\$ 18,500.00	\$ 25,000.00	\$ 25,000.00	\$ 64,000.00	\$ 64,000.00
<b>TEST WELL REAMING AND COMPLETION</b>									
F-3	Ream the 14.75-inch existing borehole to 20-inch nominal from 23 feet bgs to 695 feet bgs.	672	LF	\$ 195.00	\$ 131,040.00	\$ 220.00	\$ 147,840.00	\$ 200.00	\$ 134,400.00
F-4	Furnish and install 16-inch OD 0.375-inch wall thickness low carbon steel casing from the ground surface to 695 feet bgs. Liner foot cost includes any additional material that might be needed to set the casing and complete this task.	695	LF	\$ 145.00	\$ 100,775.00	\$ 161.25	\$ 112,068.75	\$ 144.00	\$ 100,080.00
F-5	Install bentonite seal for 16-inch casing from ground surface to 659 feet bgs.	695	LF	\$ 93.00	\$ 64,635.00	\$ 103.75	\$ 72,106.25	\$ 94.00	\$ 65,330.00
F-6	Clean-out lower borehole (16-inch nominal) from the bottom of the sealed casing to the bottom of the borehole at 1,025 feet bgs.	330	LF	\$ 145.00	\$ 47,850.00	\$ 161.25	\$ 53,212.50	\$ 145.00	\$ 47,850.00
F-7	Conduct well development.	8	HRS	\$ 620.00	\$ 4,960.00	\$ 691.00	\$ 5,528.00	\$ 650.00	\$ 5,200.00
F-8	Conduct plumbness and alignment testing of the entire borehole.	1	LS	\$ 8,263.00	\$ 8,263.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
F-9	Complete 2 video logs of the entire borehole (immediately after development, and after aquifer testing).	1	LS	\$ 3,615.00	\$ 3,615.00	\$ 4,500.00	\$ 4,500.00	\$ 5,000.00	\$ 5,000.00
F-10	Standby time for up to 2 days.	2	DAY	\$ 826.00	\$ 1,652.00	\$ 915.00	\$ 1,830.00	\$ 2,000.00	\$ 4,000.00
F-11	Drill rig hours – Standby Time.	8	HRS	\$ 155.00	\$ 1,240.00	\$ 172.00	\$ 1,376.00	\$ 200.00	\$ 1,600.00
<b>BASE AQUIFER TESTING</b>									
F-12	Furnish and install necessary equipment, including temporary test pump, to complete the basalt aquifer testing of the OPEN BOREHOLE.	1	LS	\$ 48,545.00	\$ 48,545.00	\$ 60,000.00	\$ 60,000.00	\$ 50,000.00	\$ 50,000.00
F-13	Perform step-rate test at the follow four steps: 550 gpm, 1,000 gpm, 1,300 gpm and 1,500 gpm. Each step shall be approximately 2 hours long.	8	HRS	\$ 310.00	\$ 2,480.00	\$ 344.00	\$ 2,752.00	\$ 400.00	\$ 3,200.00
F-14	Perform constant-rate pump test at 1,500 gpm (120 hours of pumping and up to 120 hours for recovery - no time paid for recovery).	120	HRS	\$ 310.00	\$ 37,200.00	\$ 344.00	\$ 41,280.00	\$ 400.00	\$ 48,000.00
<b>MISCELLANEOUS TASKS, EXTRA WORK AND MOBILIZATION/DEMobilIZATION</b>									
F-15	Well disinfection & completion of an above-grade (3-ft stickup), well cap with an access port and installation of three yellow painted bollards	1	LS	\$ 4,130.00	\$ 4,130.00	\$ 5,000.00	\$ 5,000.00	\$ 6,000.00	\$ 6,000.00
F-16	Mobilization and Demobilization, including all equipment and incidental items required to complete the Scope of Work (the total amount for this bid item CANNOT be more than 15% of the Total Schedule F Base Bid amount (bid items F-1 through F-15)	1	LS	\$ 72,000.00	\$ 72,000.00	\$ 82,500.00	\$ 82,500.00	\$ 75,000.00	\$ 75,000.00
F-17	"Extra Work as Authorized" (means additional work tasks not specifically required or implied by the Contract that an authorized City representative specifically requests in writing for a contractor to perform. Executing a construction contract is not a specific request for a contractor to perform any additional work).	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
SUBTOTAL FOR SCHEDULE F				\$	604,630.00	\$	684,993.50	\$	694,660.00

				Emery & Sons Construction Group, LLC - Salem, OR	ROTSCHY INC - Vancouver, WA	The Natt McDougall Company - Tualatin, OR			
<b>GRAND TOTAL BID AMOUNT</b>				\$	19,716,135.00	\$	20,662,226.50	\$	25,323,155.00