

ESTIMATE: **Seacliff Area Main Replacement**

DATE: **April 29, 2008**

CWO: **08-006**

Item	Description	Quantity	Unit	Engineer's Estimate		Pacific Underground Const. San Jose, CA		Granite Rock dba Pavex San Jose, CA		Granite Construction Co. Watsonville, CA		Monterey Peninsula Eng. Marina, CA		McGuire and Hester Oakland, CA		Sanco Pipelines, Inc. Campbell, CA		J&M Inc. Livermore, CA		Lewis & Tibbets, Inc. San Jose, CA			
				Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount
1	Installation of 8" Class 200 PVC water main w/8" Valves and Fittings on Seacliff Dr. and Broadway	3740	L.F.	\$140.00	\$523,600.00	\$ 110.00	\$ 411,400.00	\$ 126.00	\$ 471,240.00	\$ 91.00	\$ 340,340.00	\$ 92.60	\$ 346,324.00	\$ 109.00	\$ 407,660.00	\$ 137.00	\$ 512,380.00	\$ 110.00	\$ 411,400.00	\$ 134.00	\$ 501,160.00		
2	Installation of 16" Class 200 PVC water main on Center Ave. at Broadway w/ two 16" x 8" Tees	35	L.F.	\$195.00	\$6,825.00	\$ 462.00	\$ 16,170.00	\$ 400.00	\$ 14,000.00	\$ 528.00	\$ 18,480.00	\$ 540.00	\$ 18,900.00	\$ 370.00	\$ 12,950.00	\$ 425.00	\$ 14,875.00	\$ 445.00	\$ 15,575.00	\$ 550.00	\$ 19,250.00		
3	Installation of 16" Butterfly Valve w/16" Stub and Cap w/Extra 2' Excavation at Center Ave. and Broadway	1	L.S.	\$4,400.00	\$4,400.00	\$ 6,000.00	\$ 6,000.00	\$ 4,000.00	\$ 4,000.00	\$ 3,000.00	\$ 3,000.00	\$ 6,500.00	\$ 6,500.00	\$ 5,650.00	\$ 5,650.00	\$ 6,250.00	\$ 6,250.00	\$ 8,000.00	\$ 8,000.00	\$ 3,100.00	\$ 3,100.00		
4	Installation of 12" Butterfly Valve w/16" x 12" reducer, 12" Stub and Cap w/Extra 2' Excavation at Center Ave. and Broadway	1	L.S.	\$2,400.00	\$2,400.00	\$ 6,500.00	\$ 6,500.00	\$ 5,000.00	\$ 5,000.00	\$ 2,300.00	\$ 2,300.00	\$ 6,000.00	\$ 6,000.00	\$ 5,400.00	\$ 5,400.00	\$ 6,500.00	\$ 6,500.00	\$ 6,117.00	\$ 6,117.00	\$ 2,010.00	\$ 2,010.00		
5	Installation of 6" Class 200 PVC water main w/6" Valves and Fittings on El Camino Del Mar, Kelp Lane, and all water main extensions for tie-ins.	1360	L.F.	\$125.00	\$170,000.00	\$ 108.00	\$ 146,880.00	\$ 97.00	\$ 131,920.00	\$ 93.00	\$ 126,480.00	\$ 120.00	\$ 163,200.00	\$ 94.00	\$ 127,840.00	\$ 105.00	\$ 142,800.00	\$ 104.00	\$ 141,440.00	\$ 146.00	\$ 198,560.00		
6	Installation of one (1) 12" x 6" Reducing Cross, and two (2) 12" Butterfly Valves w/Stubs and Caps w/Extra 2' Excavation @ Both Ends	1	L.S.	\$4,600.00	\$4,600.00	\$ 7,800.00	\$ 7,800.00	\$ 10,000.00	\$ 10,000.00	\$ 5,071.00	\$ 5,071.00	\$ 7,500.00	\$ 7,500.00	\$ 6,300.00	\$ 6,300.00	\$ 6,000.00	\$ 6,000.00	\$ 53,623.00	\$ 53,623.00	\$ 6,150.00	\$ 6,150.00		
7	Installation of 4" Class 200 PVC water main w/ 4" Valve and Fittings on Seacliff Dr. for 179, 181, & 183 Seacliff Dr.	145	L.F.	\$75.00	\$10,875.00	\$ 85.00	\$ 12,325.00	\$ 50.00	\$ 7,250.00	\$ 49.00	\$ 7,105.00	\$ 90.00	\$ 13,050.00	\$ 104.00	\$ 15,080.00	\$ 130.00	\$ 18,850.00	\$ 141.00	\$ 20,445.00	\$ 150.00	\$ 21,750.00		
8	Installation of 2" Permanent Blow-off at end of 183 Seacliff Dr., and Seacliff Dr. & El Camino Del Mar	2	EA	\$2,020.00	\$4,040.00	\$ 1,407.00	\$ 2,814.00	\$ 2,000.00	\$ 4,000.00	\$ 400.00	\$ 800.00	\$ 1,500.00	\$ 3,000.00	\$ 1,800.00	\$ 3,600.00	\$ 975.00	\$ 1,950.00	\$ 1,800.00	\$ 3,600.00	\$ 1,245.00	\$ 2,490.00		
9	Installation of Chlorination Tap	5	EA	\$1,020.00	\$5,100.00	\$ 590.00	\$ 2,950.00	\$ 1,500.00	\$ 7,500.00	\$ 350.00	\$ 1,750.00	\$ 800.00	\$ 4,000.00	\$ 1,000.00	\$ 5,000.00	\$ 650.00	\$ 3,250.00	\$ 770.00	\$ 3,850.00	\$ 1,000.00	\$ 5,000.00		
10	Replacement of Domestic/Irrigation Service w/1" P.E. Tubing	94	EA	\$1,770.00	\$166,380.00	\$ 935.00	\$ 87,890.00	\$ 1,993.00	\$ 187,342.00	\$ 3,400.00	\$ 319,600.00	\$ 2,850.00	\$ 267,900.00	\$ 3,000.00	\$ 282,000.00	\$ 1,835.00	\$ 172,490.00	\$ 3,800.00	\$ 357,200.00	\$ 3,475.00	\$ 326,650.00		
11	Relocate Domestic Service at 218 Seacliff Dr. w/1" P.E. Tubing	1	EA	\$2,300.00	\$2,300.00	\$ 935.00	\$ 935.00	\$ 3,000.00	\$ 3,000.00	\$ 1,800.00	\$ 1,800.00	\$ 4,000.00	\$ 4,000.00	\$ 1,700.00	\$ 1,700.00	\$ 2,100.00	\$ 2,100.00	\$ 1,000.00	\$ 1,000.00	\$ 4,900.00	\$ 4,900.00		
12	Tie over of Domestic Service w/1" P.E. Tubing from Existing Water Main	2	EA	\$3,200.00	\$6,400.00	\$ 935.00	\$ 1,870.00	\$ 3,000.00	\$ 6,000.00	\$ 893.00	\$ 1,786.00	\$ 5,000.00	\$ 10,000.00	\$ 4,100.00	\$ 8,200.00	\$ 2,550.00	\$ 5,100.00	\$ 520.00	\$ 1,040.00	\$ 4,100.00	\$ 8,200.00		
13	Replacement of 2" Irrigation Service w/2" Gate Valve	1	EA	\$1,970.00	\$1,970.00	\$ 1,780.00	\$ 1,780.00	\$ 3,000.00	\$ 3,000.00	\$ 1,700.00	\$ 1,700.00	\$ 7,500.00	\$ 7,500.00	\$ 3,000.00	\$ 3,000.00	\$ 3,150.00	\$ 3,150.00	\$ 1,250.00	\$ 1,250.00	\$ 6,100.00	\$ 6,100.00		
14	Reconnection of Existing 2" Fire Service w/2" Gate Valve	1	EA	\$1,970.00	\$1,970.00	\$ 1,500.00	\$ 1,500.00	\$ 3,000.00	\$ 3,000.00	\$ 1,500.00	\$ 1,500.00	\$ 3,000.00	\$ 3,000.00	\$ 1,500.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00	\$ 900.00	\$ 900.00	\$ 2,900.00	\$ 2,900.00		
15	Reconnection of Existing 2" Fire and Domestic Combination Service w/2" Gate Valve	5	EA	\$2,000.00	\$10,000.00	\$ 1,000.00	\$ 5,000.00	\$ 4,000.00	\$ 20,000.00	\$ 1,500.00	\$ 7,500.00	\$ 3,000.00	\$ 15,000.00	\$ 1,400.00	\$ 7,000.00	\$ 1,850.00	\$ 9,250.00	\$ 900.00	\$ 4,500.00	\$ 1,060.00	\$ 5,300.00		
16	Installation of James Jones J-3740 6-inch Steamer Fire Hydrant w/Lateral and all Appurtenances.	4	EA	\$6,300.00	\$25,200.00	\$ 7,370.00	\$ 29,480.00	\$ 7,500.00	\$ 30,000.00	\$ 6,600.00	\$ 26,400.00	\$ 7,500.00	\$ 30,000.00	\$ 7,200.00	\$ 28,800.00	\$ 7,700.00	\$ 30,800.00	\$ 5,000.00	\$ 20,000.00	\$ 7,435.00	\$ 29,740.00		
17	Reconnect Fire Hydrant at 170/172 Seacliff Dr.	1	L.S.	\$3,200.00	\$3,200.00	\$ 5,141.00	\$ 5,141.00	\$ 4,500.00	\$ 4,500.00	\$ 1,800.00	\$ 1,800.00	\$ 3,000.00	\$ 3,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,850.00	\$ 4,850.00	\$ 9,100.00	\$ 9,100.00	\$ 3,560.00	\$ 3,560.00		
18	Tie-in to Existing 8" water main at Center Ave. and Broadway	1	EA	\$6,000.00	\$6,000.00	\$ 5,824.00	\$ 5,824.00	\$ 4,000.00	\$ 4,000.00	\$ 4,700.00	\$ 4,700.00	\$ 4,000.00	\$ 4,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,500.00	\$ 6,500.00	\$ 5,000.00	\$ 5,000.00	\$ 10,500.00	\$ 10,500.00		
19	Tie-in to Existing 6" water main on Broadway at Alley	1	EA	\$3,600.00	\$3,600.00	\$ 5,676.00	\$ 5,676.00	\$ 3,000.00	\$ 3,000.00	\$ 4,200.00	\$ 4,200.00	\$ 3,500.00	\$ 3,500.00	\$ 4,000.00	\$ 4,000.00	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00	\$ 5,960.00	\$ 5,960.00		
20	Tie-in to Existing 6" water main on Santa Cruz Ave. at Seacliff Dr. and Broadway	1	EA	\$4,200.00	\$4,200.00	\$ 6,549.00	\$ 6,549.00	\$ 3,000.00	\$ 3,000.00	\$ 4,200.00	\$ 4,200.00	\$ 3,500.00	\$ 3,500.00	\$ 4,500.00	\$ 4,500.00	\$ 6,500.00	\$ 6,500.00	\$ 7,200.00	\$ 7,200.00	\$ 6,000.00	\$ 6,000.00		
21	Tie-in to Existing 6" water main on El Camino Del Mar at Seacliff Dr.	1	EA	\$4,200.00	\$4,200.00	\$ 4,453.00	\$ 4,453.00	\$ 3,000.00	\$ 3,000.00	\$ 4,200.00	\$ 4,200.00	\$ 3,500.00	\$ 3,500.00	\$ 4,500.00	\$ 4,500.00	\$ 6,500.00	\$ 6,500.00	\$ 3,000.00	\$ 3,000.00	\$ 5,980.00	\$ 5,980.00		
22	Tie-in to Existing 6" water main on San Benito Ave. at Seacliff Dr.	2	EA	\$3,800.00	\$7,600.00	\$ 5,879.00	\$ 11,758.00	\$ 3,000.00	\$ 6,000.00	\$ 4,500.00	\$ 9,000.00	\$ 4,000.00	\$ 8,000.00	\$ 4,500.00	\$ 9,000.00	\$ 5,350.00	\$ 10,700.00	\$ 3,200.00	\$ 6,400.00	\$ 6,000.00	\$ 12,000.00		
23	Tie-in to Existing 6" water main on east end of Santa Cruz Ave. at Seacliff Dr.	1	EA	\$4,200.00	\$4,200.00	\$ 4,890.00	\$ 4,890.00	\$ 3,000.00	\$ 3,000.00	\$ 7,600.00	\$ 7,600.00	\$ 3,000.00	\$ 3,000.00	\$ 3,700.00	\$ 3,700.00	\$ 8,200.00	\$ 8,200.00	\$ 3,200.00	\$ 3,200.00	\$ 5,960.00	\$ 5,960.00		
24	Tie-in to Existing 6" water main on Valencia Ave. at Seacliff Dr.	1	EA	\$4,200.00	\$4,200.00	\$ 3,460.00	\$ 3,460.00	\$ 2,000.00	\$ 2,000.00	\$ 5,000.00	\$ 5,000.00	\$ 3,500.00	\$ 3,500.00	\$ 4,500.00	\$ 4,500.00	\$ 8,200.00	\$ 8,200.00	\$ 3,700.00	\$ 3,700.00	\$ 5,960.00	\$ 5,960.00		
25	Tie-in to Existing 6" water main on Santa Clara Ave. at Seacliff Dr.	1	EA	\$4,200.00	\$4,200.00	\$ 8,080.00	\$ 8,080.00	\$ 3,000.00	\$ 3,000.00	\$ 7,000.00	\$ 7,000.00	\$ 4,500.00	\$ 4,500.00	\$ 4,000.00	\$ 4,000.00	\$ 10,450.00	\$ 10,450.00	\$ 3,100.00	\$ 3,100.00	\$ 6,000.00	\$ 6,000.00		
26	Tie-in to Existing 4" water main on Sea Terrace Way	2	EA	\$3,800.00	\$7,600.00	\$ 3,240.00	\$ 6,480.00	\$ 2,000.00	\$ 4,000.00	\$ 4,100.00	\$ 8,200.00	\$ 3,500.00	\$ 7,000.00	\$ 4,500.00	\$ 9,000.00	\$ 11,000.00	\$ 22,000.00	\$ 3,000.00	\$ 6,000.00	\$ 5,750.00	\$ 11,500.00		
27	Tie-in to Existing 6" water main on Kelp Lane	1	EA	\$3,800.00	\$3,800.00	\$ 1,700.00	\$ 1,700.00	\$ 3,000.00	\$ 3,000.00	\$ 4,400.00	\$ 4,400.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00	\$ 6,250.00	\$ 6,250.00	\$ 2,400.00	\$ 2,400.00	\$ 6,000.00	\$ 6,000.00		
28	Tie-in to Existing 8" water main on Seacliff Dr. near 218 Seacliff Dr.	1	EA	\$4,200.00	\$4,200.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,500.00	\$ 4,500.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,200.00	\$ 5,200.00	\$ 5,300.00	\$ 5,300.00	\$ 5,760.00	\$ 5,760.00		
29	Hot tap tie-in at existing 6" AC main near 206 Center Ave. w/6" x 6" Tapping Sleeve and 6" Valve	1	EA	\$4,000.00	\$4,000.00	\$ 4,700.00	\$ 4,700.00	\$ 3,500.00	\$ 3,500.00	\$ 4,200.00	\$ 4,200.00	\$ 5,500.00	\$ 5,500.00	\$ 5,000.00	\$ 5,000.00	\$ 7,100.00	\$ 7,100.00	\$ 5,500.00	\$ 5,500.00	\$ 6,750.00	\$ 6,750.00		

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Item	Description	Quantity	Unit	Engineer's Estimate		Pacific Underground Const. San Jose, CA		Granite Rock dba Pavex San Jose, CA		Granite Construction Co. Watsonville, CA		Monterey Peninsula Eng. Marina, CA		McGuire and Hester Oakland, CA		Sanco Pipelines, Inc. Campbell, CA		J&M Inc. Livermore, CA		Lewis & Tibbets, Inc. San Jose, CA	
				Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount	Unit Cost	Total Amount
30	Tie-in at El Camino Del Mar and Santa Clara Ave.	2	EA	\$3,800.00	\$7,600.00	\$ 2,150.00	\$ 4,300.00	\$ 3,000.00	\$ 6,000.00	\$ 6,000.00	\$ 12,000.00	\$ 3,000.00	\$ 6,000.00	\$ 4,000.00	\$ 8,000.00	\$10,000.00	\$ 20,000.00	\$ 3,000.00	\$ 6,000.00	\$ 5,500.00	\$ 11,000.00
31	Tie-in at El Camino Del Mar and Valencia Ave.	2	EA	\$3,800.00	\$7,600.00	\$ 2,150.00	\$ 4,300.00	\$ 2,500.00	\$ 5,000.00	\$ 6,100.00	\$ 12,200.00	\$ 3,000.00	\$ 6,000.00	\$ 4,000.00	\$ 8,000.00	\$10,000.00	\$ 20,000.00	\$ 2,800.00	\$ 5,600.00	\$ 5,525.00	\$ 11,050.00
32	Hot tap tie-in at existing 6" PVC main on El Camino Del Mar at Santa Cruz Ave. w/6" x 6" Tapping Sleeve and 6" Valve	1	EA	\$4,000.00	\$4,000.00	\$ 4,700.00	\$ 4,700.00	\$ 3,500.00	\$ 3,500.00	\$ 4,500.00	\$ 4,500.00	\$ 7,000.00	\$ 7,000.00	\$ 5,000.00	\$ 5,000.00	\$ 7,100.00	\$ 7,100.00	\$ 6,000.00	\$ 6,000.00	\$ 6,750.00	\$ 6,750.00
33	Application of Cal Trans Type II slurry seal.	135,640	SQ-FT	\$0.40	\$54,256.00	\$ 0.32	\$ 43,404.80	\$ 0.20	\$ 27,128.00	\$ 0.30	\$ 40,692.00	\$ 0.30	\$ 40,692.00	\$ 0.20	\$ 27,128.00	\$ 0.25	\$ 33,910.00	\$ 0.20	\$ 27,128.00	\$ 0.40	\$ 54,256.00
				\$1,080,516.00		\$ 870,709.80		\$994,880.00		\$ 1,004,004.00		\$ 1,023,066.00		\$1,038,008.00		\$ 1,127,705.00		\$1,161,068.00		\$ 1,318,246.00	