



Project Name: SOUTH MILPITAS BLVD WATER LINE REPLACEMENT AND LOS COCHES VALVE REPLACEMENT
 Project # 7098
 Bid Date: Tuesday, May 10, 2011, 2:00 pm

		Engineer's Estimate		PRESTON PIPELINES		K.J. WOODS CONSTRUCTION, INC.		MOUNTAIN CASCADES, INC.		J & M, INC.			
ITEM	DESCRIPTION	Qty.	UNIT	Unit Cost	Extension	Unit Cost	Extension	Unit Cost	Extension	Unit Cost	Extension	Unit Cost	Extension
1	Mobilization	1	LS	\$95,000.00	\$95,000.00	\$3,000.00	\$3,000.00	\$121,070.00	\$121,070.00	\$100,000.00	\$100,000.00	\$60,600.00	\$60,600.00
2	Potholing	1	LS	\$25,000.00	\$25,000.00	\$6,500.00	\$6,500.00	\$5,000.00	\$5,000.00	\$30,000.00	\$30,000.00	\$90,000.00	\$90,000.00
3	Connections to Existing Distribution System	6	EA	\$12,000.00	\$72,000.00	\$8,000.00	\$48,000.00	\$6,000.00	\$36,000.00	\$8,000.00	\$48,000.00	\$4,600.00	\$27,600.00
4	16" Wet Tap (Yosemite Blvd)	1	EA	\$15,000.00	\$15,000.00	\$11,500.00	\$11,500.00	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00	\$21,240.00	\$21,240.00
5	12" Wet Tap (Los Coches St)	1	EA	\$8,000.00	\$8,000.00	\$9,600.00	\$9,600.00	\$8,000.00	\$8,000.00	\$10,000.00	\$10,000.00	\$13,045.00	\$13,045.00
6	Field Surveying	1	LS	\$25,000.00	\$25,000.00	\$6,500.00	\$6,500.00	\$6,000.00	\$6,000.00	\$4,500.00	\$4,500.00	\$7,000.00	\$7,000.00
7	Preparation and Implementation of SWPPP	1	LS	\$3,500.00	\$3,500.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$5,000.00	\$5,000.00	\$13,400.00	\$13,400.00
8	Remove & Salvage 2" Air Release Valve	2	EA	\$500.00	\$1,000.00	\$1,700.00	\$3,400.00	\$800.00	\$1,600.00	\$500.00	\$1,000.00	\$3,220.00	\$6,440.00
9	Remove and Salvage Fire Hydrant	17	EA	\$1,000.00	\$17,000.00	\$3,700.00	\$62,900.00	\$800.00	\$13,600.00	\$1,000.00	\$17,000.00	\$4,090.00	\$69,530.00
10	Remove Service Lines 3" and Smaller	32	EA	\$800.00	\$25,600.00	\$1,500.00	\$48,000.00	\$1,000.00	\$32,000.00	\$1,400.00	\$44,800.00	\$2,905.00	\$92,960.00
11	Remove Water Lines 4" to 12" Diameter	790	LF	\$60.00	\$47,400.00	\$85.00	\$67,150.00	\$80.00	\$63,200.00	\$40.00	\$31,600.00	\$102.00	\$80,580.00
12	Additional Cost for Handling and Disposal of Asbestos Cement Pipe	570	LF	\$20.00	\$11,400.00	\$100.00	\$57,000.00	\$10.00	\$5,700.00	\$25.00	\$14,250.00	\$16.00	\$9,120.00
13	Larger	1	LS	\$7,000.00	\$7,000.00	\$20,000.00	\$20,000.00	\$30,000.00	\$30,000.00	\$16,000.00	\$16,000.00	\$31,400.00	\$31,400.00
14	Sheeting, Shoring and Bracing	1	LS	\$40,000.00	\$40,000.00	\$52,000.00	\$52,000.00	\$80,000.00	\$80,000.00	\$7,000.00	\$7,000.00	\$54,570.00	\$54,570.00
15	Dewatering	1	LS	\$10,000.00	\$10,000.00	\$108,000.00	\$108,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$79,400.00	\$79,400.00
16	Bore And Jack 26" Steel Casing	1	LS	\$10,000.00	\$10,000.00	\$19,000.00	\$19,000.00	\$80,000.00	\$80,000.00	\$10,000.00	\$10,000.00	\$53,860.00	\$53,860.00
17	Traffic Control	1	LS	\$88,000.00	\$88,000.00	\$27,000.00	\$27,000.00	\$40,000.00	\$40,000.00	\$120,000.00	\$120,000.00	\$115,000.00	\$115,000.00
18	Traffic Loops	1	LS	\$16,000.00	\$16,000.00	\$45,000.00	\$45,000.00	\$10,000.00	\$10,000.00	\$6,000.00	\$6,000.00	\$16,500.00	\$16,500.00
19	Cathodic Protection System	1	LS	\$75,000.00	\$75,000.00	\$19,000.00	\$19,000.00	\$25,000.00	\$25,000.00	\$18,000.00	\$18,000.00	\$28,500.00	\$28,500.00
20	16" Restrained Joint Ductile Iron Pipe	2699	LF	\$165.00	\$445,335.00	\$190.00	\$512,810.00	\$270.00	\$728,730.00	\$245.00	\$661,255.00	\$227.00	\$612,673.00
21	16" Restrained Joint Ductile Iron Pipe (Night Construction)	1175	LF	\$165.00	\$193,875.00	\$190.00	\$223,250.00	\$310.00	\$364,250.00	\$240.00	\$282,000.00	\$312.00	\$366,600.00
22	12" Restrained Joint Ductile Iron Pipe	65	LF	\$140.00	\$9,100.00	\$190.00	\$12,350.00	\$320.00	\$20,800.00	\$450.00	\$29,250.00	\$406.00	\$26,390.00
23	12" Restrained Joint Ductile Iron Pipe (Night Construction)	65	LF	\$140.00	\$9,100.00	\$190.00	\$12,350.00	\$410.00	\$26,650.00	\$450.00	\$29,250.00	\$496.00	\$32,240.00
24	Emergency Bypass	1	LS	\$8,000.00	\$8,000.00	\$17,000.00	\$17,000.00	\$20,000.00	\$20,000.00	\$25,000.00	\$25,000.00	\$42,390.00	\$42,390.00
25	4" Service Lateral & Connection	3	EA	\$7,000.00	\$21,000.00	\$6,500.00	\$19,500.00	\$5,000.00	\$15,000.00	\$11,500.00	\$34,500.00	\$18,060.00	\$54,180.00
26	6" Service Lateral & Connection	4	EA	\$8,500.00	\$34,000.00	\$7,500.00	\$30,000.00	\$6,000.00	\$24,000.00	\$9,500.00	\$38,000.00	\$19,240.00	\$76,960.00
27	8" Fire Service Lateral & Connection	13	EA	\$10,000.00	\$130,000.00	\$11,500.00	\$149,500.00	\$7,000.00	\$91,000.00	\$10,000.00	\$130,000.00	\$22,795.00	\$296,335.00
28	16" Gate Valves	29	EA	\$3,500.00	\$101,500.00	\$7,800.00	\$226,200.00	\$7,000.00	\$203,000.00	\$6,000.00	\$174,000.00	\$8,450.00	\$245,050.00
29	12" Gate Valves	4	EA	\$3,000.00	\$12,000.00	\$2,600.00	\$10,400.00	\$3,000.00	\$12,000.00	\$4,000.00	\$16,000.00	\$3,300.00	\$13,200.00

30	Remove & Replace - 12" Gate Valves	4	EA	\$10,000.00	\$40,000.00	\$6,000.00	\$24,000.00	\$3,500.00	\$14,000.00	\$4,500.00	\$18,000.00	\$6,950.00	\$27,800.00
31	Remove & Replace - 6" Gate Valves	3	EA	\$8,000.00	\$24,000.00	\$4,000.00	\$12,000.00	\$1,300.00	\$3,900.00	\$2,500.00	\$7,500.00	\$3,865.00	\$11,595.00
32	Fire Hydrant Assembly	27	EA	\$6,500.00	\$175,500.00	\$12,100.00	\$326,700.00	\$11,000.00	\$297,000.00	\$12,500.00	\$337,500.00	\$15,435.00	\$416,745.00
33	2" Combination Air/Vacuum Valve Assembly	2	EA	\$5,000.00	\$10,000.00	\$3,500.00	\$7,000.00	\$5,000.00	\$10,000.00	\$8,500.00	\$17,000.00	\$7,550.00	\$15,100.00
34	2" Service Lateral & Connection	32	EA	\$5,000.00	\$160,000.00	\$6,300.00	\$201,600.00	\$1,000.00	\$32,000.00	\$5,000.00	\$160,000.00	\$7,630.00	\$244,160.00
35	Relocate Existing Water Sampling Station	1	LS	\$2,500.00	\$2,500.00	\$6,500.00	\$6,500.00	\$3,000.00	\$3,000.00	\$500.00	\$500.00	\$5,100.00	\$5,100.00
36	Blow off Assembly	3	EA	\$3,500.00	\$10,500.00	\$2,000.00	\$6,000.00	\$3,000.00	\$9,000.00	\$15,000.00	\$45,000.00	\$5,500.00	\$16,500.00
37	Caltrans Encroachment Permit, Allowance	1	LS	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
38	Trench Dam	3	EA	\$200.00	\$600.00	\$2,200.00	\$6,600.00	\$500.00	\$1,500.00	\$900.00	\$2,700.00	\$1,570.00	\$4,710.00
A	Modified Trench Excavation (Directed by Engineer)	100	CY	\$100.00	\$10,000.00	\$65.00	\$6,500.00	\$50.00	\$5,000.00	\$150.00	\$15,000.00	\$107.00	\$10,700.00
B	Pavement Restoration Outside of Pipe Trench (Directed by Engineer)	500	SF	\$8.00	\$4,000.00	\$14.00	\$7,000.00	\$10.00	\$5,000.00	\$8.00	\$4,000.00	\$12.00	\$6,000.00
BASE BID TOTAL					\$2,197,701.00		\$2,450,810.00		\$2,478,000.00		\$2,531,605.00		\$3,400,173.00
					w/ 10%		Lowest Responsible Bid						
ADDITIVE PAY ITEMS													
1	Cathodic Protection of Valves at Los Coches Street Loop	7	EA	\$1,700.00	\$11,900.00	\$1,325.00	\$9,275.00	\$2,000.00	\$14,000.00	\$1,200.00	\$8,400.00	\$1,015.00	\$7,105.00
					\$11,900.00		\$9,275.00		\$14,000.00		\$8,400.00		\$7,105.00
BASE + ADDITIVE TOTAL					\$2,209,601.00		\$2,460,085.00		\$2,492,000.00		\$2,540,005.00		\$3,407,278.00

**AMENDMENT No. 3 TO AGREEMENT
FOR CONSULTATION AND OTHER SERVICES**

This Amendment is entered into this 17th day of May 17, 2011, by and between the City of Milpitas, a municipal corporation of the State of California (hereafter referred to as "CITY") and West Yost & Associates (hereafter referred to as "CONSULTANT").

RECITALS

WHEREAS, the parties entered into an Agreement for professional Engineering services for South Milpitas Boulevard Water Line Replacement and Los Coches Valve Replacement, Project No. 7098, on February 3, 2009; December 4, 2009; May 3, 2010; and

WHEREAS, the parties desire to further amend the Agreement to allow CONSULTANT to provide additional professional Engineering support services during the construction phase, and extend time of services through completion of construction, for South Milpitas Boulevard Water Line Replacement and Los Coches Valve Replacement, Project No. 7098.

NOW THEREFORE, in consideration of the mutual covenants and conditions herein contained, the parties agree to amend the Agreement as follows:

1. The first sentence in Subsection 1.1, entitled "Term of Services" is amended to read:

The term of this Agreement shall begin on the date first noted above and shall end on **June 30, 2012**, and Consultant shall complete all the work described in the agreement and its amendments prior to that date, unless the term of the Agreement is otherwise terminated or further extended, as provided for in Section 8.

2. Section 1, entitled "Services" is amended by adding Exhibit "**A-Amendment 3**", which is attached hereto and incorporated by reference herein.
3. Section 2, entitled "Compensation" is amended to add Exhibit "**A-Amendment 3**", which is attached hereto and incorporated by reference herein. Section 2 is further amended by adding the following to the end of the Section:

The compensation for the services set forth in Exhibit "**A-Amendment 3**" is a "not to exceed" amount. The total maximum amount of compensation to be paid for tasks outlined in Exhibit "**A- Amendment 3**" shall be **\$67,751.00**.

4. Section 2, entitled "Compensation" is amended to add Exhibit "**B-Amendment 3**", which is attached hereto and incorporated by reference herein.

5. The Consultant agrees to maintain and pay for all insurance policies as stated in Section 4, entitled "Insurance Requirements" of the Agreement dated **May 17, 2011**, between **West Yost Associates** and the City of Milpitas. The Consultant shall provide the City with renewal certificates of the current policies upon the expiration of the current policy.
6. All other provisions of the Agreement shall remain in full force and effect.

This Amendment is executed as of the date written on Page 1.

APPROVED BY:

CITY OF MILPITAS

CONSULTANT

Thomas C. Williams, City Manager

John Goodwin, Vice President
West Yost & Associates

APPROVED AS TO CONTENT:

Greg Armendariz, Public Works Director/City Engineer

APPROVED AS TO FORM:

Michael J. Ogaz, City Attorney

ATTEST BY:

Mary Lavelle, City Clerk

EXHIBIT A – AMENDMENT 3 (SCOPE OF SERVICES)

The work scope includes construction support services for the South Milpitas Water Line Replacement Project. The project includes replacement of approximately 4,800 linear feet of 16-inch water main, including laterals and related appurtenances in South Milpitas Boulevard between East Calaveras Boulevard and Yosemite Drive, and up to seven valve replacements along Los Coches Street.

The purpose of this contract is to provide the City with engineering support during construction which includes meetings, plan revisions resulting from bid addendums review of submittals and contractor requests for information (RFI), assistance with construction change directives, and finalizing Record Drawings.

Task 1. Addendums and Other Revisions

Incorporate revisions, resulting from bid addendums, to the construction drawings and technical provisions, as necessary. This includes additional coordination with subconsultants, review of technical revisions needed on plans and specifications, and 2 meetings with City Staff.

Task 2. Construction Meetings

Engineer will attend up to seven meetings including: one pre-construction meeting; two weekly construction progress meetings; three site visits as requested by the City; and one final field walk to assist in the development of the project punch list.

Deliverables: Meeting notes and written summaries of key discussion items.

Task 3. Review Submittals and RFIs

Engineer will assist the City with review of submittals and RFIs. Budget assumes up to 32 submittals and 20 RFIs. Provide exhibits for Construction Change Directives. Review of safety plans and shoring/bracing submittals shall be for compliance to contract documents only. Traffic controls plans shall be reviewed by City staff.

Deliverables: Provide review comments in PDF format.

Task 4. Construction Change Directives

Engineer will assist with the review of contractor change directives and provide any figures or redesign efforts as necessary. For budgeting, an allowance of up to 24 hours of staff time is assumed.

Deliverables: Figures or drawings in PDF format.

Task 5. Cathodic Protection Assistance

Provide assistance during construction and start-up as required. Budget assumes up to two days of field work.

Task 6. Record Drawings

Prepare Record Drawings in AutoCAD format based on drawing markups provided by Contractor and reviewed by Construction Manager. Provide draft submittal for City review and a final submittal after addressing City comments.

Deliverables: One full-size draft and one full size final set of Record Drawings. Electronic files including PDF and AutoCAD files.

Task 7. Contingencies

This task is an allowance for additional unforeseen work not covered under the above tasks. This item requires further approval by the City's Engineer prior to work.

Fee Estimate for City of Milpitas
Construction Support Services--South Milpitas Blvd Water Line Replacement Project

1 of 1
4/20/2011

EXHIBIT B - AMENDMENT 3
(Payment by City: Schedule and Manner of Payment)

Estimated Hours and Budget West Yost Associates	PMP \$216 Goodwin	PE/PS \$188 McWilliams	ESII \$134 Durbin	SD/SCAD \$109	Labor		Drafting Fee \$25	Other Costs		Sub-1 V&A
					Hours	Fee		Sub. w/ markup 10%	Other Direct	
Task 1.0 Addendum and Other Revisions										
1.01 Addendum Revisions	8	24	12	14	58	\$ 9,374	14	\$ 350	\$ 276	\$ 10,000
1.02 Other Changes	8	16	12	10	46	\$ 7,434	10	\$ 250	\$ 166	\$ 7,850
Subtotal, Task 1 (hours)	16	40	24	24	104		24			
Subtotal, Task 1 (\$)	\$ 3,456	\$ 7,520	\$ 3,216	\$ 2,616		\$ 16,808		\$ 600	\$ 442	\$ 17,850
Task 2.0 Construction Meetings										
2.01 Construction Meetings	16	20			36	\$ 7,216	0		\$ 500	\$ 7,716
Subtotal, Task 2 (hours)	16	20	0	0	36		0		\$ 500	\$ 7,716
Subtotal, Task 2 (\$)	\$ 3,456	\$ 3,760				\$ 7,216			\$ 500	\$ 7,716
Task 3.0 Review Submittals and RFIs										
3.01 Review Submittals and RFIs	24	40	40	0	104	\$ 18,064	0	\$ 1,188		\$ 19,252
Subtotal, Task 3 (hours)	24	40	40	0	104		0			
Subtotal, Task 3 (\$)	\$ 5,184	\$ 7,520	\$ 5,360			\$ 18,064		\$ 1,188		\$ 19,252
Task 4.0 Construction Change Directives										
4.01 Construction Change Directives	4	8	8	4	24	\$ 3,376	4	\$ 100	\$ 50	\$ 4,026
Subtotal, Task 4 (hours)	4	8	8	4	24		4		\$ 50	\$ 4,026
Subtotal, Task 4 (\$)	\$ 864	\$ 1,504	\$ 1,072	\$ 436		\$ 3,376		\$ 100	\$ 50	\$ 4,026
Task 5.0 Cathodic Protection										
5.01 Cathodic Protection	2	4			6	\$ 1,184	0	\$ 4,400		\$ 5,584
Subtotal, Task 5 (hours)	2	4	0	0	6		0			
Subtotal, Task 5 (\$)	\$ 432	\$ 752				\$ 1,184		\$ 4,400		\$ 5,584
Task 6.0 Record Drawings										
6.01 Record Drawings		4	16	16	36	\$ 4,640	16	\$ 400	\$ 50	\$ 5,090
Subtotal, Task 6 (hours)	0	4	16	16	36		16			
Subtotal, Task 6 (\$)		\$ 752	\$ 2,144	\$ 1,744		\$ 4,640		\$ 400	\$ 50	\$ 5,090
Task 7.0 Contingencies										
7.01 Contingencies	8	16	16	8	48	\$ 7,752	8	\$ 200	\$ 281	\$ 8,233
Subtotal, Task 7 (hours)	8	16	16	8	48		8			
Subtotal, Task 7 (\$)	\$ 1,728	\$ 3,008	\$ 2,144	\$ 872		\$ 7,752		\$ 200	\$ 281	\$ 8,233
TOTAL (hours)	70	132	104	52	358		52			
TOTAL (\$)	\$ 15,120	\$ 24,816	\$ 13,936	\$ 5,668		\$ 59,540		\$ 1,300	\$ 5,588	\$ 67,751



WEST YOST ASSOCIATES, INC.

2011 Billing Rate Schedule

(Effective January 1, 2011 through December 31, 2011)*

Position	Labor Charges (dollars per hr)
Principal/Vice President	216
Engineering Manager	206
Principal Engineer/Scientist	188
Senior Engineer/Scientist/GIS Analyst	169
Associate Engineer/Scientist	151
GIS Analyst	151
Engineer II/Scientist II	134
Engineer I/Scientist I	115
Construction Manager III	164
Construction Manager II	151
Construction Manager I	139
Resident Inspector III	127
Resident Inspector II	117
Resident Inspector I	103
Sr. Designer/Sr. CAD Operator	109
Designer/CAD Operator	97
Technical Specialist II	94
Technical Specialist I	82
Engineering Aide	68
Administrative IV	97
Administrative III	85
Administrative II	73
Administrative I	61

Hourly labor rates include Direct Costs such as general computers, system charges, telephone, fax, routine in-house copies/prints, postage, miscellaneous supplies, and other incidental project expenses.

Outside Services such as vendor reproductions, prints, shipping, and major West Yost reproduction efforts, as well as Engineering Supplies, Travel, etc. will be billed at actual cost plus 15%.

Mileage will be billed at the current Federal Rate.

Subconsultants will be billed at actual cost plus 10%.

Computers are billed at \$25 per hour for specialty models and AutoCAD.

Expert witness, research, technical review, analysis, preparation and meetings billed at 150% of standard hourly rates. Expert witness testimony and depositions billed at 200% of standard hourly rates.

A Finance Charge of 1.5 percent per month (an Annual Rate of 18 percent) on the unpaid balance will be added to invoice amounts if not paid within 45 days from the date of the invoice.

Billing rates apply to all computers and equipment, whether owned or rented by West Yost, and to all employment categories including regular full-time, part-time, limited term and contract personnel as defined in West Yost's Employee Handbook.

*This schedule will be updated annually

WEST YOST ASSOCIATES, INC.
2011 Billing Rate Schedule
(Cont'd.)

(Effective January 1, 2011 through December 31, 2011)*

SURVEYING AND EQUIPMENT CHARGES

Position	Labor Charges (dollars per hr)
GPS, 3-Person	333
GPS, 2-Person	284
GPS, 1-Person	223
Survey Crew, 2-Person	242
Survey Crew, 1-Person	182

EQUIPMENT CHARGES

Equipment	Billing Rate (dollars per day)	Billing Rate (dollars per week)
DO Meter	16	77
pH Meter	5	24
Automatic Sampler	120	658
Transducer/Data Logger	38	190
Hydrant Pressure Gage	11	47
Hydrant Pressure Recorder (HPR)	—	190
Hydrant Wrench	5	30
Pitot Diffuser	27	124
Well Sounder	27	124
Ultrasonic Flow Meter	—	249
Vehicle	82	412
Velocity Meter	11	60
Water Quality Multimeter	163	891
Thickness Gage	—	66

*This schedule will be updated annually