



Proposal for Engineering Services
City of San Luis
East Mesa Water Lines Project
 County 23-1/2 Street - Ave. E to Ave. E-1/2 and Ave. E to Ave. D,
 Avenue E - Co. 23-1/2 St. to San Luis Port Subvision, and
 Avenue D - Co. 24th St. to Co. 25th St.
 Prepared by: James Davey and Associates, Inc.

October 27, 2017

Item	Description	Principal Engineer	Project Engineer	Engineering Technician	Survey Crew	Direct Costs	Comments
<u>DESIGN PHASE SERVICES</u>							
1	Project Management	4					
2	Analysis of Well Site 7 - East Mesa Water System	16					Meetings on system operation, analysis of flow from WS-7 with system improvements.
3	Collect Design Data		8				Right-of-way, utilities, existing design plans. Utility potholing not included (assumed by City of San Luis if needed.)
4	Establish Control and Field Topo Survey		4		36		
5	Prepare Survey Base Sheets	16 Sheets	5 Hrs/Sheet	16	64		20 Scale, Double Plan and Profile Sheets
6	Geotechnical Investigation						None recommended - Soils in Project Area are typically uniform, mostly silty sands to fine sands.
7	Prepare Design Plans						Based on 1.5 miles of water line on Co. 23-1/2, 0.25 miles on Ave. E and 1.0 miles on Ave D.
	Cover Sheet	1 Sheets	6 Hrs/Sheet	2	4		
	Plan and Profiles - 20 Scale	16 Sheets	12 Hrs/Sheet	12	80	100	20 Scale, Double Plan and Profile Sheets
	General Sheets/Standard Details	3 Sheets	4 Hrs/Sheet	1	2	8	
	Special Details	3 Sheets	12 Hrs/Sheet	1	9	27	
8	YCEH/ADEQ Permitting	1	12				Engineers Design Report, YCEH Application
9	Prepare Special Conditions	2	12				Two set of contract documents to be prepared - West Co. 23-1/2 and Ave. E as one set and East Co. 23-1/2 and Ave. D as the second set.
10	Quantities and Bid Schedule	2	12				
Total Estimated Hours		39	157	203	36	---	
Hourly Rates		\$140	\$120	\$80	\$160	---	
Subtotals		\$5,460	\$18,840	\$16,240	\$5,760	\$0	
TOTAL FEE ESTIMATE						\$46,300	