

FEE PROPOSAL - ENGINEERING SERVICES

Project Description: Little Town Water System Improvements
Project Number / s: CDBG # 02-C-RS-I-7-G-2002, SAP-02-L-RS-I-3-G-2002
Owner: Little Town, NM
Engineer: Middle Town Engineers
Date of Submittal: 15-Oct-02

RESIDENT PROJECT REPRESENTATION

Job Description	Project		Field		Admin.		Mileage		Per	Prints	Total	Subcontr	Subcontr	Total	
	<u>Principal</u>	<u>Engineer</u>		<u>Tech</u>	<u>Assist</u>				<u>Diem</u>		<u>In-House</u>			<u>Task</u>	
Grade Level	V			III	III										
Billing Rate / Unit	\$ 135	\$ 100		\$ 45	\$ 35			\$ 0.35	\$ 80	\$ 0.25					
Unit	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Mi	Days	Prints	\$	\$	\$	\$	
Task															
Resident Proj Representation	0	0	0	0	1440	0	0	0	3500	140	0	\$ 77,225	\$ -	\$ -	\$ 77,225
Number of Work Days = 180					1440				3500	140					
Number of Hours per Day= 8															

Reimbursible Cost: \$ 12,425 Total Hrs: 1440 Cost / Hr: \$ 45 Direct Cost: \$ 64,800 **Total Stage Cost: \$ 77,225**
 Subconsultant Cost: \$ -

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Owner: Little Town, NM
Engineer: Middle Town Engineers
Date of Submittal: 4/15/2002

ENVIRONMENTAL DOCUMENTATION

Job Description	Project	Engineer	Envir	Field	Admin.			Mileage	Per	Prints	Total	Subcontr	Sub	Total
	<u>Principal</u>	<u>Leader</u>	<u>Tech</u>	<u>Manager</u>	<u>Tech</u>	<u>Assist</u>			<u>Diem</u>		<u>In-House</u>	<u>Archeolog.</u>	<u>Cont</u>	<u>Task</u>
Grade Level												Consultant		
Billing Rate / Unit	\$ 135	\$ 100	\$ 45	\$ 80	\$ 45	\$ 35		\$ 0.35	\$ 80	\$ 0.25				
Unit	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Mi	Days	Prints	\$	\$	\$	\$
Task														
Environmental Documentation	0	0	4	59	0	0	0	200	0	800	\$ 5,170	\$ 2,000	\$ -	\$ 7,170
Meet with Applicable Agency				1										
Environmental Information Outline				2										
Public Scoping Meeting				4				100						
Agency Consultation Letters				8										
Cultural Resources Survey												\$ 2,000		
Environmental Information Doc				24						400				
Public Hearing			4	8				100						
Revise Envir Information Doc				6						400				
Prepare Envir Assessment				2										
FONSI / Address Comments				4										

Reimbursible Cost: \$ 270 Total Hrs: 63 Cost / Hr: \$ 78 Direct Cost: \$ 4,900 **Total Stage Cost: \$ 7,170**
 Subconsultant Cost: \$ 2,000

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Owner: Little Town, NM

Engineer: Middle Town Engineers

Date of Submittal: 15-Jun-02

SURVEYING AND MAPPING

Job Description	Project		Engineer		Survey		Field		Admin.		Mileage	Per	Prints	Total	Subcontr		Total
	Principal	Engineer	Tech	Team	Tech	Assist			Diem						In-House	Aerial	
Grade Level		V													Photogr	Company	
Billing Rate / Unit	\$ 135	\$ 100	\$ 45	\$ 100	\$ 45	\$ 35				\$ 0.35	\$ 80	\$ 0.25		\$ 20,000			
Unit	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Mi	Days	Prints	\$	\$	\$	\$	\$
Task																	
Field Survey and Mapping	0	4	96	66	0	0	0	0	0	300	16	0	\$ 12,705	\$ 20,000	\$ -	\$ 32,705	
Survey Plan / Instructions		3															
Survey Research:																	
Utility Locations			8							100	4						
Right of Way / Easements			8														
Property Ownership			8														
Obtain Permission to Survey			8														
Perform Field Research			8														
Perform Field Survey				40						100	8						
Establish Utility & R/W Location			20														
Establish Control Points				24						100	4						
Aerial Mapping			4											\$ 20,000			
Download Data / tins & contours			8														
Prepare Mapping			16														
Verify Accuracy of Survey		1	8	2													
Property Survey & Mapping	0	13	50	26	0	0	0	0	0	300	6	0	\$ 7,101	0	\$ 2,000	\$ 9,101	
Survey Plan / Instructions		4															
Survey Research			8							100	2						
Obtain Permission to Survey			3														
Perform Field Research			8														
Perf Field Survey (4 parcels)		2		16						100	4						
Title Search (4 parcels)		1	3												\$ 2,000		
Download Data			4														
Survey Calculations		2	12														
Prepare Mapping			12														
Verification		4															
Monumentation				10						100							

Reimbursible Cost: \$ 1,970
Subconsultant Cost: \$ 22,000

Total Hrs: 255

Cost / Hr: \$ 70

Direct Cost: \$ 17,836

Total Stage Cost: \$ 41,806

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Project Number / s: CDBG # 02-C-RS-I-7-G-2002, SAP # 02-L-RS-I-3-G-2002
Owner: Little Town ,NM
Engineer: Middle Town Engineers
Date of Submittal: October 15,2002

BASIC ENGINEERING SERVICES BID ADMIN & CONSTRUCTION STAGES

Job Description	Project		Engineer		Survey	Field	Admin.	Mileage		Per	Prints	Total	Sub	Sub	Total
	Principal	Engineer	Tech	Team	Tech	Assist			Diem		In-House	Cont	Cont	Task	
Grade Level		V	IV		III	III									
Billing Rate / Unit	\$ 135	\$ 100	\$ 45	\$ 100	\$ 45	\$ 35		\$ 0.35	\$ 80	\$ 0.25					
Unit	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Mi	Days	Prints	\$	\$	\$	\$	
Task															
Bid Administration	2	65	0	0	20	48	0	0	400	0	16200	\$ 13,540			\$ 13,540
Pre-Advertising Verifications		4				2									
Advertisement for Bids		1				2									
Preparation/Distribution Packets		2				24				16000					
Pre-Bid Conference		8			8			100							
Addenda and Clarifications		16				8				200					
Receive Bids		5						100							
Evaluate Bids		4				4									
Recommendation/Award of Bid	1	8				1		100							
Execute Construction Contract		1				3									
Prepare Quality Assurance Plan	1	4			4										
Pre-Construction Conf Prep		4				2									
Pre-Construction Conference		8			8	2		100							
Construction	3	200	16	0	66	22	0	0	1700	0	0	\$ 25,460			\$ 25,460
Video Site					5										
Verify Design Intent w/ Staking					5			100							
Verify Contr Pay Applic s (10)		5			20	10									
Submittals (20)		30													
Changes	2	24	16		20	2									
Construction Observation		128						1600							
Number of Visits = 16															
Hours per Visit = 8															
Frequency of Visits = Bi-weekly															
Final Review & Closeout Docs	1	12			12	4									
Record Drawings		1			4										
Archives						6									

Reimbursible Cost: \$ 4,785 Total Hrs: 442 Cost / Hr: \$ 77 Direct Cost: \$ 34,215 **Total Stage Cost: \$ 39,000**
 Subconsultant Cost: \$ -

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Project Number / s: CDBG # 02-C-RS-I-7-G-2002, SAP # 02-L-RS-I-3-G-2002

Owner: Little Town, NM

Engineer: Middle Town Engineers

Date of Submittal: Jan. 15, 2002

PRELIMINARY ENGINEERING (PER)

Job Description	Project		Engineer		Survey	Field	Admin.			Mileage	Per	Prints	Total	Subcontr	Sub	Total
	Principal	Engineer	Tech	Team	Tech	Assist				Diem		In-House		cont	Task	
Grade Level	V		IV			III	III							Geo-		
Billing Rate / Unit	\$ 135	\$ 100	\$ 45	\$ 100	\$ 45	\$ 35			\$ 0.35	\$ 80	\$ 0.25		Hydrologist			
Unit	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Mi	Days	Prints	\$	\$	\$	\$	
Task																
Project Start-Up	4	35	3	0	3	3	0	0	200	0	300	\$ 4,560				\$ 4,560
Client Interview / Programming		16							200		300					
Project Management Plan	1	8														
Start-Up Meeting Preparation		8														
Start-Up Meeting	3	3	3		3	3										
Conceptual Engineering	32	340	198	0	144	34	0	0	800	15	5800	\$ 58,745	\$ 15,000			\$ 73,745
Plan of Approach	1	6				1					50					
Report Outline / Approval	1	4				1					50					
Data and Measurements (Below):																
Coordination for Test Wells		40	24			8			100		1600					
Test Wells (2)	1	40			120				300	12			\$ 15,000			
Gather Drawings / Records		2	20						100	2						
Interview Maintenance Staff		10							100							
Right of Way Research			6													
Identify Alternatives/Eval Criteria	2	12									100					
Studies / Schematics (Below):																
Growth Analysis	1	6	8													
Development of Water Model	4	56	32		8				100							
Evaluation of Existing System	4	32	24		16				100	1						
Evaluation of Alternatives	8	48	24													
Public / Client Meetings (Below):																
Meetings with Client (3 Mtgs)		24														
Public Infor Meeting (1 Mtg)	2	20	20													
Write / Distribute Report	8	40	40			24					4000					

Reimbursible Cost: \$ 3,075 Total Hrs: 796 Cost / Hr: \$ 76 Direct Cost: \$ 60,230 **Total Stage Cost: \$ 78,305**
 Subconsultant Cost: \$ 15,000

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Owner: Little Town , NM

Engineer: Middle Town Engineers

Date of Submittal: 6/15/2002

BASIC ENGINEERING SERVICES DESIGN STAGES

Job Description	Principal	Project Engineer	Engineer Tech	Electrical Designer	Engineer Tech	Admin. Assist	Designer	Designer	Mileage	Per Diem	Prints	Total In-House	Subcontr Geo-Tech	Subcontr Geo-Hydr	Total Task
Grade Level	V	IV	IV	III	III	IV	III								
Billing Rate / Unit	\$ 135	\$ 100	\$ 45	\$ 75	\$ 40	\$ 35	\$ 65	\$ 65	\$ 0.35	\$ 80	\$ 0.25		\$ 7,500		
Unit	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Mi	Days	Prints	\$	\$	\$	\$
Task															
Preliminary Design	95.5	388	141	40	216	50	227	267	600	0	1500	\$ 104,123	\$ 2,950	\$ 7,500	\$ 114,573
Dwg / Detail Plan / Spec Outline	0.5	3													
Team Meeting Preparation		6													
Design Team Meeting	5	5	5			6	5	5	200		300				
Preliminary Design (Below):															
Elevated Storage Reservoir	12	16			80	16	200						\$ 2,950		
Production Well	16	240	80	40		16								\$ 7,500	
Transmission Lines	12	16			120			240							
Coordination w/ Utility Comps		40				4			100						
R/W & Permitting Req s	4	40	40			8			100						
In-House Quality Control	40	16	16		16		16	16			200				
Design Review	6	6					6	6	200		1000				
Final Design	56	129	63	35	55	36	57	57	400	0	4500	\$ 38,055			\$ 38,055
R/W & Utility Adjustment Req s		12													
Team Meeting Preparation	1	4				2									
Team Meeting	3	3	3	3	3	4	3	3	200		500				
Utility Coordination		4	12			2									
Final Design (Below):															
Elevated Storage Reservoir	4	8			20	8	40								
Production Well	4	60	40	24		8									
Transmission Lines	4	8			24	8		40							
In-House Quality Control	40	24	8	8	8	4	8	8			1000				
Design Review		6					6	6	200		3000				

Reimbursable Cost: \$ 1,850

Total Hrs: 1912.5

Cost / Hr: \$ 73

Direct Cost: \$ 140,328

Total Stage Cost: \$ 152,628

Subconsultant Cost: \$ 10,450