



Quality Testing, LLC
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SUB CONSULTANT :	QT
PROJECT NAME :	SR-80 Utility Infrastructure Improvements
PROJECT OWNER:	City of Douglas
ESTIMATE NUMBER:	250924-01

Project Scope: The project scope includes installation of a water main between Cochise College and the City's Well #14 and other related improvements along the SR-80 corridor. The project duration is 154 calendar days for Base Bid, and QT will be providing full-time on-site inspector as well as field technician (ADOT S7 level) for testing.

Assumptions:

* We have assumed total of 160 trips for base bid only.

Estimate Amount Defined Scope: This cost proposal is considered an estimate, subject to the GENERAL INFORMATION/ASSUMPTIONS as defined herein. For the estimate amount, QT will perform construction materials sampling and testing, both field and lab, that is specifically identified in this cost estimate.

Cost Estimate Summary:

Total Extended QT Direct Billable Labor	\$	196,247.60
(Includes QC Supervisor, QC Reporting Tech, Field Tech, Etc.)		
Total Laboratory Testing Fees	\$	9,386.00
(Includes All Laboratory Testing)		
Total Other Direct Costs	\$	34,205.00
(Includes Vehicle, Subcontracted Services, etc. if Applicable)		
Total Estimate of All Fees	\$	239,838.60

The following pages identify the time frame, resourcing, and other assumptions used in developing this cost estimate. Assumptions are based on the information provided by your office, and QT's experience on similar projects, at the time of this proposal. If there are changes to the contractor's schedule, re-testing, additional site visits or other items that are not part of the originally assumed visits, these visits will be outside this scope of work. Items outside this scope of work will be extra work that will be billed to the contractor based on the units and rates established here within.

Shekhar Shah, Sr. Project Manager	9/9/2025
Estimator	Date


Signature



PROPOSAL SUMMARY

PROJECT NAME : **SR-80 Utility Infrastructure Improvements**

SCOPE OF SERVICES: **Quality Control Testing**

LABOR FEES

BASE BID

CLASSIFICATION	LABOR TYPE	REG HOURS	REGULAR RATE	ASS'D % OT	OVERTIME HOURS	OVERTIME RATE ⁽¹⁾	EXTENDED LABOR COST
Registered Professional Engineer	Direct	120	\$ 233.15			\$ 233.15	\$ 27,978.00
Project QC Supervisor	Direct		\$ -				
QCT Inspector/Technician	Direct	1160	\$ 145.06			\$ 217.59	\$ 168,269.60
Materials Technician	Direct		\$ -				
Inspector	Direct		\$ -				
Office Administration	Direct		\$ 68.00			\$ 68.00	
			\$ -				
Lab Technician	Indirect		\$ -				
(1) Regular Rate X Overtime Premium of 1.5							
SUBTOTAL DIRECT LABOR							\$ 196,247.60

VEHICLE AND PER-DIEM CHARGES

DESCRIPTION	NO. UNITS	UNITS	UNIT PRICE	EXTENDED VEHICLE AND PER-DIEM
Trip Charge	160	EA	\$ 88.00	\$ 14,080.00
Per-Diem	115	DAY	\$ 175.00	\$ 20,125.00
SUBTOTAL VEHICLE AND PER-DIEM CHARGES				\$ 34,205.00

OTHER PROJECT DIRECT CHARGES

DESCRIPTION	NO. UNITS	UNITS	UNIT PRICE	EXTENDED OTHER PROJECT CHARGES
				\$ -
				\$ -
				\$ -
				\$ -
SUBTOTAL OTHER PROJECT DIRECT CHARGES				\$ -

LAB TESTING FEES

DESCRIPTION	NO. UNITS	UNITS	UNIT PRICE	EXTENDED LABORATORY FEES
Compressive Strength, Cylindrical Specimen (ASTM C39, AASHTO T22)	60	EA	\$ 22.00	\$ 1,320.00
Masonry Grout Prisms, Compressive Strength (ASTM C1019)		EA	\$ 31.00	\$ -
Specific Gravity/Absorption (Coarse Agg.)(ASTM C127, AASHTO T85)		EA	\$ 75.00	\$ -
Sieve Analysis (ASTM C136, C117, AASHTO T27, T11)	8	EA	\$ 90.00	\$ 720.00
Plasticity Index, Dry Prep (ASTM D4318, AASHTO T89, T90)	8	EA	\$ 120.00	\$ 960.00
Proctor, Standard (ASTM D698, AASHTO T99)	8	EA	\$ 144.00	\$ 1,152.00
Fractured Particles in CA (Fractured Faces) (ASTM D5821)	2	EA	\$ 116.00	\$ 232.00
Flat & Elongated Particles in CA (ASTM D4791)	2	EA	\$ 135.00	\$ 270.00
Abrasion of Coarse Aggregate (LA) (ASTM C131, AASHTO T96)	2	EA	\$ 270.00	\$ 540.00
Ignition Oven - Calibration (per mix) (ASTM D6307, AASHTO T308)	2	EA	\$ 740.00	\$ 1,480.00
Ignition Oven - Asphalt Cement Content (ASTM D6307, AASHTO T308)	4	EA	\$ 150.00	\$ 600.00
Ignition Oven - Gradation (ASTM C136, AASHTO T27)	4	EA	\$ 90.00	\$ 360.00
Maximum Specific Gravity of HMA Mixture (ASTM D2041, T209)	4	SET OF 3	\$ 186.00	\$ 744.00
Gyratory Compaction (ASTM D6925, D2726, AASHTO T312, T166)	4	SET OF 2	\$ 228.00	\$ 912.00
Marshall Specimen Bulk Density (ASTM D6926, D2726, AASHTO T245)		SET OF 3	\$ 180.00	\$ -
Core Bulk Specific Gravity/Thickness (ASTM D2726, AASHTO T166)	4	EA	\$ 24.00	\$ 96.00
Drill AC Cores (up to 8" thickness)		EA	\$ 36.00	\$ -
			\$ -	\$ -
TOTAL LABORATORY TESTING FEES				\$ 9,386.00

TOTAL ESTIMATE OF ALL FEES

\$ 239,838.60

Shekhar Shah, Sr. Project Manager
Estimator

September 9, 2025
Date

COST PROPOSAL, 9/24/2025



SCHEDULED PROJECTED MAN-HOURS

PROJECT NAME : SR-80 Utility Infrastructure ImprovementsCONSULTANT : QTDATE: September 9, 2025

ESTIMATED MONTHLY MAN-HOURS

PROJECT PERSONNEL / SUB CONSULTANT MAN-HOURS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	SUBTOTAL REGULAR HOURS	% OT	SUBTOTAL O/T	TOTAL
NOV 2025 through OCT 2027	N-25 18	D-25 22	J-26 26	F-26 19	M-26 22	A-26 22	M-26 26	J-26 22	J-26 22	A-26 21	S-26 21	O-26 22	N-26 19	D-26 22	J-27 19	F-27 19	M-27 23	A-27 22	M-27 26	J-27 22	J-27 21	A-27 22	S-27 21	O-27 21				
Registered Professional Engineer	10	20	20	20	20	20	10																		120 m-h	0%	m-h	120 m-h
Project QC Supervisor																									m-h	0%	m-h	m-h
QCT Inspector/Technician	120	176	176	176	176	176	160																		1160 m-h	0%	m-h	1160 m-h
Materials Technician																									m-h	0%	m-h	m-h
Inspector																									m-h	0%	m-h	m-h
Office Administration																									m-h	0%	m-h	m-h
																									m-h	0%	m-h	m-h
Lab Technician																									m-h	0%	m-h	m-h
ABOVE PERIOD - MONTHLY FULL TIME EQUIV. (FTEs)																												
TOTAL FTEs (DIRECT LABOR ONLY)	0.07	0.11	0.13	0.13	0.11	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120 m-h	0%	m-h	120 m-h
TOTAL FTEs (DIRECT LABOR & VEHICLE)	0.83	1.00	1.10	1.16	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1160 m-h	0%	m-h	1160 m-h
TOTAL FTEs (INDIRECT LABOR ONLY)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	m-h	0%	m-h	m-h
TOTAL FTEs (SUBCONTRACTED LABOR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	m-h	0%	m-h	m-h
TOTAL FTEs (ALL LABOR CLASSES)	0.90	1.11	1.23	1.29	1.11	1.11	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1280 m-h	0%	m-h	1280 m-h
TOTAL ACTUAL POSITIONS	1	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				13
TOTAL VEHICLES	1	1	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				9