

February 17, 2023

Webb County
1620 Santa Ursula, 2nd Floor
Laredo, TX 78040

Attn.: Guillermo B. Cuellar, PE
Assistant Webb County Engineer

Sent Via E-Mail to gbcuellar@webbcountytexas.gov

**Subject: Proposal – Construction Materials Testing –
Mangana Hein Road Extension Project
One (1) Mile South of TransTexas Gas Corp. Facility
Laredo, Webb County, Texas**

Dear Mr. Cuellar:

Howland Engineering and Surveying Co., Inc. (Howland) appreciates the opportunity to propose the construction materials testing (CMT) for the above referenced project in southeast Laredo, Texas. We are pleased to submit the following cost estimate.

The attached cost estimate is based on the construction plans by Crane Engineering Corp., and the standard required testing frequencies we anticipate from the Client. The total estimated fee is **\$29,174.00**. Please be advised that this is an estimate only and may change due to unforeseen quantities and/or situations during the construction phase of the project. This is not a Quality Assurance / Quality Control (QA/QC) scope. Howland will only be on-site to perform the requested test at the requested time.

Howland maintains a full-service testing laboratory in Laredo, Texas. Howland has experienced personnel with knowledge of local geologic conditions and materials. Our field personnel are certified nuclear density operators and American Concrete Institute (ACI) Grade I certified.

We appreciate the opportunity in submitting this cost and look forward providing our services. Should you have any questions or require additional information, please do not hesitate to call us at (956) 722-4411. Thank you.

Sincerely,

Howland Engineering and Surveying Co., Inc.
TBPE Firm Registration No. F-4097


AUTHORIZATION TO PROCEED:

Signature: _____

Print Name: _____

Title: _____

Date: _____


Sergio Galindo, Jr., P.E.
Project Manager
proposal-cmt@webbcounty-pita mangana rd

www.howlandcompanies.com

	Est. Quantities	Unit		Unit Cost	Cost Est.
Moisture Density Relationship & Atterberg Limits Determination:					
Subgrade -Site/Trenching	5	EA	@	\$515.00	\$2,575.00
Select Fill Material	1	EA	@	\$515.00	\$515.00
Flexible Base (with Grain Sieve Analysis)	2	EA	@	\$690.00	\$1,380.00
Proof Rolling:					
Mangana Hein Road Subgrade	6	HR	@	\$100.00	\$600.00
Observation:					
TX-5 Geogrid Installation	10	HR	@	\$65.00	\$650.00
Densities:					
<i>Minimum of four (4) tests per call out</i>					
Roadway:					
Mangana Hein Roadway					
Subgrade (Every 150 LF)	35	EA	@	\$40.00	\$1,408.00
Fill Material (6" Lifts)	16	EA	@	\$40.00	\$640.00
Flexible Base (2 Lifts @ Maximum 8" Lifts Every 150 LF)	70	EA	@	\$40.00	\$2,816.00
Behind Edge of Pavement (2 Lifts @ Maximum 8" Lifts Every 300 LF)	72	EA	@	\$40.00	\$2,880.00
Utilites:					
24" RCP Drainage Crossing					
Subgrade	2	EA	@	\$40.00	\$80.00
Backfill Material	20	EA	@	\$40.00	\$800.00
8'X3' Box Culverts					
Subgrade	2	EA	@	\$40.00	\$80.00
Backfill Material	20	EA	@	\$40.00	\$800.00
4'X2' Box Culverts					
Subgrade	2	EA	@	\$40.00	\$80.00
Backfill Material	20	EA	@	\$40.00	\$800.00
Concrete:					
<i>Compressive Strength Testing - 4 Cylinders per Set</i>					
Utilites:					
24" RCP Drainage Crossing					
Wingwall Footing	2	SET	@	\$250.00	\$500.00
Headwalls & Wingwalls	2	SET	@	\$250.00	\$500.00
Rip Rap	1	SET	@	\$250.00	\$250.00
8'X3' Box Culverts					
Wingwall Footing	2	SET	@	\$250.00	\$500.00
Headwalls & Wingwalls	2	SET	@	\$250.00	\$500.00
Rip Rap	1	SET	@	\$250.00	\$250.00
4'X2' Box Culverts					
Wingwall Footing	2	SET	@	\$250.00	\$500.00
Headwalls & Wingwalls	2	SET	@	\$250.00	\$500.00
Rip Rap	1	SET	@	\$250.00	\$250.00
Asphalt:					
Mangana Hein Road					
Asphalt Sampling (HMA Surface Course)	6	EA	@	\$500.00	\$3,000.00
Asphalt Densities (Every 300 LF)	18	EA	@	\$50.00	\$880.00
Asphalt Cores (Every 528 LF)	10	EA	@	\$125.00	\$1,250.00
Flexible Base Depth Checks (Every 400 LF)	13	EA	@	\$75.00	\$990.00
Steel:					
Rebar Inspection					
Wingwall Footing	6	HR	@	\$125.00	\$750.00
Wingwalls and Headwals	6	HR	@	\$125.00	\$750.00
Welding & Torque Inspection					
Metal Beam Guard Fence (CWI Inspector)	6	HR	@	\$175.00	\$1,050.00
Miscellaneous Fees & Services:					
Atterberg Limits Verification	0	EA	@	\$165.00	\$0.00
Sieve Analysis Verification	0	EA	@	\$125.00	\$0.00
Wet Ball Mill	2	EA	@	\$325.00	\$650.00
Project Management Fees:					
RFI/Submittals/Meetings	0	HR	@	\$150.00	\$0.00

Note:
Provide 24-hour notice prior to test service.
1.5 X for Non-Regular Working Hours

TOTAL COST EST. = **\$29,174.00**