

December 27, 2022

Webb County Utilities Department
513 Martha Drive
Laredo, TX 78046

Attn: Tomas Sanchez, Jr.
Utility Systems Director

Sent Via E-Mail to:
tomsanchez@webbcountytx.gov

**Subject: Proposal – Geotechnical and Surveying Services –
Webb County Wastewater Treatment Plant -
Sludge Holding Tank and Headworks Structure
Regional Waste Water Treatment Plan, B
Rio Bravo, Webb County, Texas**

Dear Mr. Sanchez,

Howland Engineering and Surveying Co., Inc. (Howland) is very pleased to provide you with our geotechnical report proposal for the above referenced project located in Rio Bravo, Texas.

Project Information

Based on our understanding, Webb County Utilities Department is proposing the construction of the following structures within the Webb County Water Treatment Plant in Rio Bravo, Texas:

Proposed Development		
Structure	Approx. Area	Additions / Components
<i>Rio Bravo Wastewater Treatment Plant</i>		
Activated Sludge Holding Tank (ASHT)	962 SF	35' Interior Diameter Circular Tank 18' High Concrete Walls
Headworks	525 SF	35' x 15' Interior Dimensions 15' High Concrete Walls

Based on a preliminary site plan provided by Webb County Utilities Department.

The proposed structures are to be located towards the northern and eastern portion of the lot. The anticipated foundation is considered to be a rigid mat foundation system. Anticipated loads are considered to be moderate to high for both structures.

Scope of Work

We propose an exploration and evaluation consisting of the following items:

1. We propose a total of four (4) 50' geotechnical bores, two (2) bores within each structure.
2. Laboratory testing to include, as they are appropriate to the soil conditions, Atterberg Limits tests which are indicators of soil expansiveness and soil behavior when remolded, approximate strength tests based on automatic standard penetration tests, corrosivity test, pH levels, resistivity, chlorides and sulfates, natural moisture content determinations, clay content and grain size distributions tests.
3. Review of published geologic and soil information for the site area.
4. The written report will include the data obtained along with our evaluation of the soil conditions, recommendations for site preparation and foundation recommendations, and recommendations regarding other soil related aspects of the project.

Fees

Based upon the scope of work outlined above, we propose to complete the exploration outlined above and issue our written report for a fee of **\$10,300**. Please note auger refusal due to soil conditions will not alter the fee. *Please note subsurface utilities and buried structures will be identified by a representative with Webb County Utilities Department prior to drilling operations.*

We can begin the field work three (3) days after receiving authorization to proceed. The field work will require two (2) working days. We can complete the laboratory testing and issue our written report within twenty (20) working days of completion of field work.

Closing

We appreciate the opportunity to submit this proposal and look forward to assisting you in this project. If the foregoing is acceptable, please provide us with written authorization to proceed by returning a signed copy of this letter proposal to our office. Should you have any questions or require additional information, please do not hesitate to call me at 956-722-4411. Thank you.

Sincerely,

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



Roberto P. Martinez, Jr., P.E.
Project Engineer



Sergio Galinde, Jr., P.E.
Project Manager

proposal-geo-webb county utilities-rio bravo

AUTHORIZATION TO PROCEED:

Signature: _____

Print Name: _____

Title: _____

Date: _____