

**STATE OF TEXAS** §  
§  
**COUNTY OF FORT BEND** §

## AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES

(Rogers Road – Segment 2 – Project No. 23114)

This Agreement (“Agreement”) is made and entered into by and between Fort Bend County, Texas (“County”), a political subdivision of the state of Texas, and AIG Technical Services, LLC (“AIG Tech”), a Texas limited liability company. County and AIG Tech may be referred to individually as a “Party” or collectively as the “Parties.”

WHEREAS, AIG Tech is a professional engineering firm which provides engineering services to the Greater Houston Area; and

WHEREAS, County desires for AIG Tech to provide engineering services for the development of Plans, Specifications and Estimates for the complete reconstruction and widening of Rogers Road – Segment 2 under Mobility Bond Project No. 23114; and

WHEREAS, AIG Tech represents that it is qualified and desires to perform such services for County; and

WHEREAS, pursuant to the requirements of Chapter 2254 of the Texas Government Code, County has determined that AIG Tech is the most highly qualified provider of such professional services and the Parties have negotiated a fair and reasonable price for the same; and

WHEREAS, this Agreement is not subject to competitive bidding requirements under Section 262.023 of the Texas Local Government Code because this Agreement is for professional engineering services and may not be competitively bid pursuant to Chapter 2254 of the Texas Government Code.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, the Parties do mutually agree as follows:

1. **Recitals.** The recitals set forth above are incorporated herein by reference and made a part of this Agreement.
2. **Scope of Services.** AIG Tech shall render services to County as defined in AIG Tech’s Proposal for Engineering Services dated July 26, 2024 (hereinafter, the “Services”) attached hereto as “Exhibit A” and incorporated by reference for all intents and purposes.

3. **Time of Performance.** Time for performance of the Scope of Services under this Agreement shall begin with AIG Tech's receipt of Notice to Proceed and shall end no later than December 31, 2028. AIG Tech shall complete such tasks described in the Scope of Services, within this time or within such additional time as may be extended by County.
4. **Compensation and Payment Terms.**
  - (a) AIG Tech's fees for the Services shall be calculated at the rate(s) set forth in the "Attachment A – Fee Schedule" found in Exhibit "A" attached hereto. The Maximum Compensation to AIG Tech for the Services performed under this Agreement is Nine Hundred Four Thousand Nine Hundred Nineteen and 20/100 Dollars (\$904,919.20). In no event shall the amount paid by County to AIG Tech under this Agreement exceed said Maximum Compensation without an approved change order.
  - (b) AIG Tech understands and agrees that the Maximum Compensation stated is an all-inclusive amount and no additional fee, cost or reimbursed expense shall be added whatsoever to the fees stated in the attached Exhibit "A."
  - (c) County will pay AIG Tech based on the following procedures: Upon completion of the tasks identified in the Scope of Services, AIG Tech shall submit to County staff person designated by the County Engineer, one (1) electronic (pdf) copy of the invoice showing the amounts due for services performed in a form acceptable to County. County shall review such invoices and approve them within 30 calendar days with such modifications as are consistent with this Agreement and forward same to the Auditor for processing. County shall pay each such approved invoice within thirty (30) calendar days. County reserves the right to withhold payment pending verification of satisfactory work performed.
5. **Limit of Appropriation.** AIG Tech understands and agrees that the Maximum Compensation for the performance of the Services within the Scope of Services described in Section 2 above is Nine Hundred Four Thousand Nine Hundred Nineteen and 20/100 Dollars (\$904,919.20). In no event shall the amount paid by County under this Agreement exceed the Maximum Compensation without a County approved change order. AIG Tech clearly understands and agrees, such understanding and agreement being of the absolute essence of this Agreement, that County shall have available the total maximum sum of Nine Hundred Four Thousand Nine Hundred Nineteen and 20/100 Dollars (\$904,919.20) specifically allocated to fully discharge any and all liabilities County may incur under this Agreement. AIG Tech does further understand and agree, said understanding and agreement also being of the absolute essence of this Agreement, that the total Maximum Compensation that AIG Tech may become entitled to and the total maximum sum that County may become liable to pay to AIG Tech under this Agreement shall not under any conditions, circumstances, or interpretations thereof exceed Nine Hundred Four Thousand Nine Hundred Nineteen and 20/100 Dollars (\$904,919.20).

6. **Non-appropriation.** AIG Tech understands and agrees that in the event no funds or insufficient funds are appropriated by the County under this Agreement, County shall immediately notify AIG Tech in writing of such occurrence and the Agreement shall thereafter terminate and be null and void on the last day of the fiscal period for which appropriations were received or made without penalty, liability or expense to the County. In no event shall said termination of this Agreement or County's failure to appropriate said funds be deemed a breach or default of this Agreement or create a debt by County in any amount(s) in excess of those previously funded.
7. **Taxes.** County is a body corporate and politic under the laws of the state of Texas and as such, is exempt from sales and use taxes. County shall furnish evidence of its tax-exempt status upon written request by AIG Tech.
8. **Insurance.** Prior to commencement of the Services, AIG Tech shall furnish County with properly executed certificates of insurance which shall evidence all insurance required and provide that such insurance shall not be canceled, except on 30 days' prior written notice to County. AIG Tech shall provide certified copies of insurance endorsements and/or policies if requested by County. AIG Tech shall maintain such insurance coverage from the time Services commence until Services are completed and provide replacement certificates, policies and/or endorsements for any such insurance expiring prior to completion of Services. AIG Tech shall obtain such insurance written on an Occurrence form from such companies having Best's rating of A/VII or better, licensed or approved to transact business in the State of Texas, and shall obtain such insurance of the following types and minimum limits:
  - (a) Workers Compensation in accordance with the laws of the State of Texas. Substitutes to genuine Workers' Compensation Insurance will not be allowed.
  - (b) Employers' Liability insurance with limits of not less than \$1,000,000 per injury by accident, \$1,000,000 per injury by disease, and \$1,000,000 per bodily injury by disease.
  - (c) Commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence and \$2,000,000 in the annual aggregate. Policy shall cover liability for bodily injury, personal injury, and property damage and products/completed operations arising out of the business operations of the policyholder.
  - (d) Business Automobile Liability coverage applying to owned, non-owned and hired automobiles with limits not less than \$1,000,000 each occurrence combined single limit for Bodily Injury and Property Damage combined.
  - (e) Professional Liability insurance with limits not less than \$1,000,000.

County shall be named as additional insured to all required coverage except for Workers' Compensation and Professional Liability (if required). All Liability policies written on behalf of AIG Tech shall contain a waiver of subrogation in favor of County.

If required coverage is written on a claims-made basis, AIG Tech warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the Contract and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of 2 years beginning from the time the work under this Contract is completed.

AIG Tech shall not commence any portion of the work under this Contract until it has obtained the insurance required herein and certificates of such insurance have been filed with and approved by County.

No cancellation of or changes to the certificates, or the policies, may be made without thirty (30) days prior, written notification to County.

Approval of the insurance by County shall not relieve or decrease the liability of the AIG Tech.

9. **Indemnity.** TO THE FULLEST EXTENT PROVIDED BY APPLICABLE LAW, AIG TECH SHALL INDEMNIFY AND HOLD HARMLESS COUNTY, ITS OFFICIALS, OFFICERS, AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, LOSSES, DAMAGES, CAUSES OF ACTION, SUITS, LIABILITY, AND COSTS, INCLUDING THE REIMBURSEMENT OF REASONABLE ATTORNEY FEES, ARISING OUT OF OR RESULTING FROM AN ACT OF NEGLIGENCE, INTENTIONAL TORT, INTELLECTUAL PROPERTY INFRINGEMENT, OR FAILURE TO PAY A SUBCONTRACTOR, OR SUPPLIER COMMITTED BY AIG TECH OR AIG TECH'S AGENTS, EMPLOYEES, OR ANOTHER ENTITY OVER WHICH AIG TECH EXERCISES CONTROL. AIG TECH SHALL FURTHER PROCURE AND MAINTAIN GENERAL LIABILITY INSURANCE WITH COVERAGE AS PROVIDED IN SECTION 8 OF THIS AGREEMENT AND SHALL FURNISH A CERTIFICATE OF INSURANCE FOR THE SAME SHOWING FORT BEND COUNTY, TEXAS AS AN ADDITIONAL INSURED.
10. **Public Information Act.** AIG Tech expressly acknowledges and agrees that County is a public entity and as such, is subject to the provisions of the Texas Public Information Act under Chapter 552 of the Texas Government Code. In no event shall County be liable to AIG Tech for release of information pursuant to Chapter 552 of the Texas Government Code or any other provision of law. Except to the extent required by law or as directed by the Texas Attorney General, County agrees to maintain the confidentiality of information provided by AIG Tech expressly marked as proprietary or confidential. County shall not be liable to AIG Tech for any disclosure of any proprietary or confidential information if such information is disclosed under Texas law or at the direction of the Texas Attorney General. AIG Tech further acknowledges and agrees that the terms and conditions of this Agreement are not proprietary or confidential information.



11. **Compliance with Laws.** AIG Tech shall comply with all federal, state, and local laws, statutes, ordinances, rules, regulations, and the decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including, without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations. AIG Tech in providing all services hereunder, further agrees to abide by the provisions of any applicable Federal or State Data Privacy Act.
12. **Independent Contractor.** In the performance of work or services hereunder, AIG Tech shall be deemed an independent contractor, and any of its agents, employees, officers, or volunteers performing work required hereunder shall be deemed solely as employees of AIG Tech. AIG Tech and its agents, employees, officers, or volunteers shall not, by performing work pursuant to this Agreement, be deemed to be employees, agents, or servants of County and shall not be entitled to any of the privileges or benefits of County employment.
13. **Use of Customer Name.** AIG Tech may use County's name without County's prior written consent only in AIG Tech's customer lists. Any other use of County's name by AIG Tech must have the prior written consent of County.
14. **County/County Data.** Nothing in this Agreement shall be construed to waive the requirements of Section 205.009 of the Texas Local Government Code.
15. **Personnel.** AIG Tech represents that it presently has, or is able to obtain adequate qualified personnel in its employment for the timely performance of the Services required under this Agreement and that AIG Tech shall furnish and maintain, at its own expense, adequate and sufficient personnel, in the opinion of County, to perform the Services when and as required and without delays.

All employees of AIG Tech shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of AIG Tech or agent of AIG Tech who, in County's opinion, is incompetent or by his conduct become detrimental to providing Services pursuant to this Agreement, shall, upon request of County, immediately be removed from association with the Services required under this Agreement.

When performing Services on-site at County's facilities, AIG Tech shall comply with, and will require that all AIG Tech's Personnel comply with, all applicable rules, regulations and known policies of County that are communicated to AIG Tech in writing, including security procedures concerning systems and data and remote access thereto, building security procedures, including the restriction of access by County to certain areas of its premises or systems for security reasons, and general health and safety practices and procedures.

16. **Confidential and Proprietary Information.** AIG Tech acknowledges that it and its employees or agents may, in the course of performing their responsibilities under this Agreement, be exposed to or acquire information that is confidential to County. Any and all information of any form obtained by AIG Tech or its employees or agents from County in the performance of this Agreement shall be deemed to be confidential information of County ("Confidential Information"). Any reports or other documents or items (including software) that result from the use of the Confidential Information by AIG Tech shall be treated with respect to confidentiality in the same manner as the Confidential Information. Confidential Information shall be deemed not to include information that (a) is or becomes (other than by disclosure by AIG Tech) publicly known or is contained in a publicly available document; (b) is rightfully in AIG Tech's possession without the obligation of nondisclosure prior to the time of its disclosure under this Agreement; or (c) is independently developed by employees or agents of AIG Tech who can be shown to have had no access to the Confidential Information.

AIG Tech agrees to hold Confidential Information in strict confidence, using at least the same degree of care that AIG Tech uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than the provision of Services to County hereunder, and to advise each of its employees and agents of their obligations to keep Confidential Information confidential. AIG Tech shall use its best efforts to assist County in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limitation of the foregoing, AIG Tech shall advise County immediately in the event AIG Tech learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Agreement and AIG Tech will at its expense cooperate with County in seeking injunctive or other equitable relief in the name of County or AIG Tech against any such person. AIG Tech agrees that, except as directed by County, AIG Tech will not at any time during or after the term of this Agreement disclose, directly or indirectly, any Confidential Information to any person, and that upon termination of this Agreement or at County's request, AIG Tech will promptly turn over to County all documents, papers, and other matter in AIG Tech's possession which embody Confidential Information.

AIG Tech acknowledges that a breach of this Section, including disclosure of any Confidential Information, or disclosure of other information that, at law or in equity, ought to remain confidential, will give rise to irreparable injury to County that is inadequately compensable in damages. Accordingly, County may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies that may be available. AIG Tech acknowledges and agrees that the covenants contained herein are necessary for the protection of the legitimate business interest of County and are reasonable in scope and content.

AIG Tech in providing all services hereunder agrees to abide by the provisions of any applicable Federal or State Data Privacy Act.

17. **Ownership and Reuse of Documents.** All documents, data, reports, research, graphic presentation materials, etc., developed by AIG Tech as a part of its work under this Agreement, shall become the property of County upon completion or termination of this Agreement. AIG Tech shall promptly furnish all such data and material to County on request.
18. **Inspection of Books and Records.** AIG Tech shall permit County, or any duly authorized agent of County, to inspect and examine the books and records of AIG Tech for the purpose of verifying the amount of work performed under the Scope of Services. County's right to inspect such books and records shall survive the termination of this Agreement for a period of four years. Notwithstanding the foregoing, AIG Tech shall bear no liability or responsibility for deliverables that have been modified post-delivery or used for a purpose other than that for which they were prepared under this Agreement.
19. **Termination.** County may terminate this Agreement at any time, with or without cause, upon thirty (30) days written notice to AIG Tech. Upon termination of this Agreement by County, AIG Tech shall be paid in accordance with Section 4, above, for those services which were provided under this Agreement prior to its termination and which have not been previously invoiced to County. AIG Tech's final invoice for said services will be presented to and paid by County in the same manner set forth in Section 4 above. No fees of any type, other than fees due and payable at the Termination Date, shall thereafter be paid to AIG Tech by County.
20. **Force Majeure.** Notwithstanding anything to the contrary contained herein, neither Party shall be liable to the other for any delay or inability to carry out its obligations under this Agreement if such delay or inability is the result of a Force Majeure Event. Within a reasonable time after the occurrence of such event, the Party whose obligations are affected (the "Affected Party") thereby shall notify the other in writing stating the nature of the event and the anticipated duration. The Affected Party's obligations under this Agreement shall be suspended during the continuance of any delay or inability caused by the event, but for no longer period. The Affected Party shall further endeavor to remove or overcome such delay or inability as soon as is reasonably possible.

For purposes of this Agreement, a Force Majeure Event includes, but is not limited to: strikes or other labor disputes, severe weather disruptions, natural disasters, fire or other acts of God; riots, war, or other emergencies; failure of any governmental agency to act in a timely manner; the discovery of any hazardous substance or differing and unforeseeable site conditions; and any other incapacities of any Party, similar to those enumerated, which are not within the control of the Party claiming such inability, which such Party could not have avoided by the reasonable exercise of due diligence and care.

21. **Assignment.** AIG Tech may not assign this Agreement to another party without the prior written consent of County.
22. **Successors and Assigns Bound.** County and AIG Tech each bind themselves and their successors and assigns to the other Party and to the successors and assigns of such other Party, with respect to all covenants of this Agreement.
23. **Publicity.** Contact with citizens of Fort Bend County, media outlets, or other governmental agencies shall be the sole responsibility of County. Under no circumstances, whatsoever, shall AIG Tech release any material or information developed or received during the performance of Services hereunder unless AIG Tech obtains the express written approval of County or is required to do so by law.
24. **Notice.** Any and all notices required or permitted under this Agreement shall be in writing and shall be mailed by certified mail, return receipt requested, or personally delivered to the following addresses:

**If to County:** Fort Bend County Engineering  
Attn: County Engineer  
301 Jackson Street,  
Richmond, Texas 77469

**And**

Fort Bend County, Texas  
Attention: County Judge  
401 Jackson Street, 1<sup>st</sup> Floor  
Richmond, Texas 77469

**If to AIG Tech:** AIG Technical Services, LLC  
1500 S Dairy Ashford  
Suite 445  
Houston, Texas 77077

25. **Performance Representation.** AIG Tech represents to County that AIG Tech has the skill and knowledge ordinarily possessed by well-informed members of its trade or profession ("Professionals") practicing in the greater Houston metropolitan area. AIG Tech shall provide the Services to County with the same professional skill and care ordinarily provided by such Professionals under the same or similar circumstances and professional license and as expeditiously as is prudent considering the ordinary professional skill and care of a competent Professional.

26. **Entire Agreement and Modification.** This Agreement constitutes the entire Agreement between the Parties and supersedes all previous agreements, written or oral, pertaining to the subject matter of this Agreement. Any amendment to this Agreement must be in writing and signed by each Party to come into full force and effect.
27. **Understanding Fair Construction.** By execution of this Agreement, the Parties acknowledge that they have read and understood each provision, term, and obligation contained herein. This Agreement, although drawn by one party, shall be construed fairly and reasonably and not more strictly against the drafting Party than the non-drafting Party.
28. **Severability.** In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.
29. **No Waiver of Immunity.** Neither the execution of this Agreement nor any other conduct of either party relating to this Agreement shall be considered a waiver or surrender by County of its governmental powers or immunity under the Texas Constitution or the laws of the state of Texas.
30. **Applicable Law and Venue.** This Agreement shall be construed according to the laws of the state of Texas. Venue for any claim arising out of or relating to the subject matter of this Agreement shall lie in a court of competent jurisdiction of Fort Bend County, Texas.
31. **Certain State Law Requirements for Contracts** The contents of this Section are required by Texas law and are included by County regardless of content For purposes of Sections 2252.152, 2271.002, and 2274.002, Texas Government Code, as amended, AIG Tech hereby verifies that AIG Tech and any parent company, wholly owned subsidiary, majority-owned subsidiary, and affiliate:
- (a) Unless affirmatively declared by the United States government to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization, is not identified on a list prepared and maintained by the Texas Comptroller of Public Accounts under Section 806.051, 807.051, or 2252.153 of the Texas Government Code.
  - (b) If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, AIG Tech does not boycott Israel and is authorized to agree in such contracts not to boycott Israel during the term of such contracts. "Boycott Israel" has the meaning provided in § 808.001 of the Texas Government Code.

- (c) If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, AIG Tech does not boycott energy companies and is authorized to agree in such contracts not to boycott energy companies during the term of such contracts. “Boycott energy company” has the meaning provided in § 809.001 of the Texas Government Code.
  - (d) If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, AIG Tech does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and is authorized to agree in such contracts not to discriminate against a firearm entity or firearm trade association during the term of such contracts. “Discriminate against a firearm entity or firearm trade association” has the meaning provided in § 2274.001(3) of the Texas Government Code. “Firearm entity” and “firearm trade association” have the meanings provided in § 2274.001(6) and (7) of the Texas Government Code.
32. **Human Trafficking.** BY ACCEPTANCE OF THIS AGREEMENT, AIG TECH ACKNOWLEDGES THAT FORT BEND COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.
33. **Captions.** The section captions used in this Agreement are for convenience of reference only and do not affect the interpretation or construction of the Agreement.
34. **Electronic and Digital Signatures.** The Parties to this Agreement agree that any electronic and/or digital signatures of the Parties included in this Agreement are intended to authenticate this writing and shall have the same force and effect as the use of manual signatures.
35. **Certification.** By his or her signature below, each signatory individual certifies that he or she is the properly authorized person or officer of the applicable Party hereto and has the requisite authority necessary to execute this Agreement on behalf of such Party, and each Party hereby certifies to the other that it has obtained the appropriate approvals or authorizations from its governing body as required by law.

**{Execution Page Follows}**

IN WITNESS WHEREOF, and intending to be legally bound, County and AIG Tech hereto have executed this Agreement to be effective on the date signed by the last Party hereto.

**FORT BEND COUNTY, TEXAS**


\_\_\_\_\_  
KP George, County Judge

\_\_\_\_\_  
Date

**ATTEST:**

\_\_\_\_\_  
Laura Richard, County Clerk

**APPROVED:**

  
\_\_\_\_\_  
J. Stacy Slawinski, County Engineer

**AIG TECHNICAL SERVICES, LLC**

  
\_\_\_\_\_  
Authorized Agent – Signature

\_\_\_\_\_  
Deepali Loney  
Authorized Agent- Printed Name

\_\_\_\_\_  
CEO

\_\_\_\_\_  
Title

\_\_\_\_\_  
9/17/24

\_\_\_\_\_  
Date

**AUDITOR'S CERTIFICATE**

I hereby certify that funds in the amount of \$\_\_\_\_\_ are available to pay the obligation of Fort Bend County within the foregoing Agreement.

\_\_\_\_\_  
Robert Ed Sturdivant, County Auditor

*i:\agreements\2024 agreements\engineering\aig technical services, llc (24-eng-100887)\agreement for professional engineering services -- aig technical services, llc.docx (DRP 09.13.24)*

# **EXHIBIT A**

(Follows Behind)



July 26, 2024

Mr. Kevin Mineo, P.E.  
Vice President – Transportation  
Binkley & Barfield, Inc.  
1710 Seamist Dr., Houston TX 77008

**RE:** Proposal for Professional Engineering Services  
23114 - Rogers Road Segment 2: From 6,000 ft West of FM 359 to FM 359  
Precinct 1  
Fort Bend County

Dear Mr. Mineo:

AIG Technical Services, LLC (AIG Tech), is pleased to submit our proposal for Professional Services to develop Plans, Specifications and Estimates (PS&E) for the above referenced project. This proposal is based upon our project understanding and the terms and conditions of the Fort Bend County Standard Professional Services Agreement.

**PROJECT UNDERSTANDING:**

**Project Assignment**

The Design assignment will involve preparing Plans, Specifications and Estimates (PS&E) for a single contract for the complete reconstruction and widening of Rogers Road – Segment 2, from 6,000' west of FM 359 to the intersection with FM 359. This segment of Rogers Road is approximately 6,200 linear feet long consisting of a two-lane asphalt pavement with roadside ditches, including two main culvert crossings. The intention is to upgrade to a 2-lane concrete roadway with curb and gutter cross section (two 12-ft traffic lanes with 1-ft curb offset) with improved roadside ditches, including two cross culvert crossings, acquisition of street right-of-way from 60 feet to a uniform width of 80 feet, and potential detention pond. The work includes control, design and metes and bounds surveys as well as coordination with adjacent designers, representatives for Fresno TX (City of Houston ETJ), and the Texas Department of Transportation (TxDOT) Houston District. The project does not appear to be located within the 100-year or 500-year floodplains based on the current published FEMA map: 48157C0315L revised 04/02/2014. As per BBI direction, this proposal includes the price to relocate the existing watermain and service connections to private property.

AIG Tech will adhere to the Fort Bend County Drainage District requirements, including providing a drainage impact analysis letter report and a practical drainage detention mitigation design will be prepared and included with the Preliminary Engineering Report.

A geotechnical report will be prepared in accordance with the current Fort Bend County Engineering Department Engineering Design Manual (EDM), dated May 2021 Draft.

It is our understanding that any required environmental services will be provided by Fort Bend County via an independent consultant, not included in this proposal. A stormwater pollution prevention report is not included in this proposal.

AIG Tech shall initiate coordination with TxDOT once BBI and Fort Bend County consider opportune and prepare the necessary exhibits to facilitate any permitting process.

### **Introduction of the AIG Team**

AIG Technical is the lead firm. Serving as your single point of contact will be Abraham Rebollar, P.E. Project Manager focused on roadway and drainage design aspects of the project, as well as coordination, quality control, schedule, and team compliance with Fort Bend County Design and Construction standards.

Weisser Engineering Company (Weisser) will provide control, design, and right of way survey services, including preparing metes and bounds surveys and parcel mapping for appraisals and land acquisition by others.

Associated Testing Laboratories (Associated Testing) will provide geotechnical engineering services.

### **Management Structure**

AIG Technical understands Binkley & Barfield, Inc. will serve as Program Manager; and, as an extension of Fort Bend County Engineering Department will continue as our single point of contact with the county throughout the duration of the design phase of this project.

### **SCOPE OF BASIC SERVICES:**

Basic services will generally follow the design process outlined in the Fort Bend County Engineering Department Engineering Design Manual (EDM), March 2022 Edition.

### **Preliminary Design Phase**

AIG Tech will prepare the design to a 30% level of completion, based on collected preliminary topographic surveys. The 30% milestone will include a Preliminary Engineering Report (PER) documenting the analysis of up to three (3) alternate roadway options leading to a preferred design. Also included will be findings and recommendations for the final design phase, a roadway schematic roll plot, drainage impact analysis, detention recommendations and drainage report, ROW acquisition needs, identification of potential utility conflicts, preliminary construction cost estimate, and Draft geotechnical report. AIG Tech will attend progress meetings with BBI.

### **Roadway**

AIG Tech shall develop up to three (3) roadway alignment options at plan view level and recommend a preferred alternative based on geometry, utility, and environmental constraints. Roadway design shall comply with the latest edition of the AASHTO "Geometric Design of Highways and Streets". AIG shall advance the preferred alternative, identify ROW requirements, develop a preliminary roadway profile,

and construction phase traffic control plan (for preferred alternative only), in accordance with the Fort Bend County Engineering Department EDM March 2022 Edition.

As part of the 30% drawing submittal, AIG Tech shall provide preliminary typical sections, project layout, roadway plan sheets, as well as identifying the total footprint of the proposed project.

### **Utilities**

The team shall research and obtain record documents for all known existing utilities within the road ROW. AIG Tech will prepare and maintain utility log through the Final Design phase. AIG Tech will establish contact with utility companies and provide plan set roadway drawings to the applicable utility companies for their use in developing any utility adjustment plans. It is understood that AIG Tech will identify major utilities and coordinate directly with utility companies; BBI will assist in facilitating utility adjustment process during the construction phase as required to verify the utilities are relocated. AIG Tech to provide utility relocation plan review once plans are finalized by the utility entities.

### **Metes and Bounds Right of Way Taking Mapping**

Per Fort Bend County Engineering Department EDM May 2021 Draft, Unrestricted Visibility Easements (UVEs) should not be acquired as separate easements, but instead included in the proposed right-of-way acquisition. Parcel Plats and Metes and Bounds for UVEs are not included in this proposal. The following surveying services are included in this proposal and further described in the attached proposal from Landtech:

- Vertical and Horizontal Control
- Topographic Survey and Mapping
- Parcel Plat and Metes and Bounds Mapping for Land Acquisitions

### **Geotechnical**

The work involves field and laboratory investigations, testing, and analysis, including producing a project geotechnical report in accordance with the Fort Bend County Engineering Department EDM March 2022 Edition guidelines. The geotechnical report will include a description of subsurface conditions, groundwater information, boring logs, and pavement recommendations in typical FBCED format. Boring logs will become part of the final PS&E package for the construction contractor's use.

See attached proposal by Associated Testing for additional details.

### **Final Design Phase**

Upon FBC concurrence and approval of PER, AIG Tech will proceed with completing the PS&E, including 70%, 95%, and 100% submittals to BBI. AIG Tech will address comments presented in the Preliminary Design Phase review meeting and provide responses to 70% and 95% BBI review comments. Per the Fort Bend County Engineering Department EDM March 2022 Edition, 70% and 95% submittals shall include cover sheet, typical and non-standard cross-sections, overall project layout, survey control map, drainage area map with hydraulic calculations, plan and profile sheets, traffic control plan, storm water

pollution prevention plan, cross sections at 100' intervals, specification table of contents, and bid form with estimated unit and total costs. A digital copy (Adobe Acrobat format, PDF) at each design milestone will be submitted for BBI's review in 11"x17" sheets including the drawings, cross sections at 100-foot intervals, Specifications Table of Contents (AIG to use Harris County Specifications - TxDOT Specifications to be used as necessary depending on FBC guidance), Construction Cost Estimate (PDF and Excel format), Bid Form (PDF and Excel format), KMZ file, and Review Checklists.

In addition to the 70% requirements, the 95% submittal shall also include general notes sheet, signage and pavement marking plans, verification of earthwork quantities, with cross sections at 100-foot intervals, standard construction details, project manual, responses to 70% comments and 95% Review Checklist.

The 100% submittal shall consist of one sealed and signed set of drawings, along with a PDF submittal of the drawings, specifications, and estimate and shall be provided to BBI.

AIG Tech will provide monthly progress reports per BBI requirements.

### **Utilities**

AIG Tech will identify all known existing utilities on the plan and utilities larger than 4" diameter in profiles. AIG Tech will coordinate with BBI's utility coordinator for the project and identify conflicts between the proposed improvements and the existing utilities. AIG Tech to submit each milestone submittal to utility companies that are identified to be in conflict.

One watermain and new service connections adjustment plans are included as part of this proposal.

### **Drainage**

AIG Tech will meet with and incorporate the Fort Bend County Drainage District requirements into preparation of the PS&E package. The drainage analysis will follow the effective Fort Bend County Interim Atlas 14 Design Criteria Manual per Fort Bend County Drainage District. Based on scoping discussions with the drainage district on other projects, it is understood that a detailed drainage study is required that includes Data collection and review, Hydrology and Hydraulics analysis of the existing and proposed road side ditch and crossing culverts, and detention analysis accompanied by maps, exhibits, and other supporting documentation for the drainage study. The project does not appear to be in the 100-year, or 500-year floodplains based on the current published FEMA maps: 48157C00085M revised 01/29/2021. A FEMA submittal for the project is not included in this proposal. Providing or obtaining a "no impact letter" is not part of this proposal.

AIG Tech shall provide Storm Water Pollution Prevention Plan and details.

### **Traffic**

AIG Tech will prepare the construction phase traffic control plans to accommodate the existing traffic during the construction of the proposed road improvements. Based on existing conditions and scoping discussions with BBI, no traffic signal design services are included as part of this proposal. Based on scoping information received, no proposed sidewalk is to be included in the project.

### **Fort Bend County Drainage District Coordination**

AIG Tech to coordinate with FBC Drainage District and provide exhibits and design plan documents, as needed.

### **TxDOT Coordination**

AIG Tech to coordinate with TxDOT for Permitting and provide exhibits and design plan documents, as needed.

### **Homeowners Association (HOA) Coordination**

AIG Tech to coordinate with neighborhood HOAs (2) and provide exhibits and design plan documents, as needed. BBI to be included in coordination where necessary.

### **Fort Bend County Support**

Fort Bend County is expected to provide, but not limited to, the following data:

1. As-builts & Right-of-Way maps (PDF and CAD, if available)
2. Pertinent engineering studies and models
3. Available drainage data and ditch culvert crossing models
4. Environmental constraint map (i.e., Wetlands)
5. Design and construction standards and details

### **Additional Services**

AIG Tech *will not* provide Bid and Construction phase services (review shop drawings and RFI(s)) as part of this proposal.

### **COMPENSATION**

Except for mapping and parcel acquisition, the preliminary and final design efforts will be a lump-sum contract fee to be billed monthly based on a Schedule of Value basis and percent complete basis by work task.

A level of effort estimate is enclosed based on the scope of work described herein. The Lump-Sum Fee amount, including subconsultants, reimbursable expenses, additional services, and ROW mapping and parcel acquisition is \$ 904,919.20.

<b>FEE SUMMARY</b>			
	<b>AIG TECH</b>	<b>ASSOCIATED TESTING</b>	<b>WEISSER</b>
<b>ENGINEERING FEE - BASE SERVICES</b>			
PHASE I - Preliminary Design Phase (PER)	\$ 257,786.40	\$ -	\$ 90,600.00
PHASE II - Final Design Phase	\$ 374,692.80	\$ 54,953.00	\$ -
<b>SUBTOTAL BY FIRM</b>	<b>\$ 632,479.20</b>	<b>\$ 54,953.00</b>	<b>\$ 90,600.00</b>
<b>SUBTOTAL BASE SERVICES</b>	<b>\$ 778,032.20</b>		
<b>ENGINEERING FEE - OPTIONAL ADDITIONAL SERVICES</b>			
- Detention Pond Geotechnical Investigations	\$ -	\$ 32,101.00	\$ 6,105.00
- Project Control for Construction	\$ -	\$ -	\$ 5,775.00
- SUE Level A	\$ -	\$ -	\$ 13,930.00
- Proposed ROW Survey & Mapping and Parcel Acquisition	\$ -	\$ -	\$ 38,460.00
- Water Line Relocation	\$ 30,516.00	\$ -	\$ -
<b>SUBTOTAL BY FIRM</b>	<b>\$ 30,516.00</b>	<b>\$ 32,101.00</b>	<b>\$ 64,270.00</b>
<b>SUBTOTAL ADDITIONAL SERVICES</b>	<b>\$ 126,887.00</b>		
<b>GRAND TOTAL (BASE AND ADDITIONAL SERVICES)</b>	<b>\$ 904,919.20</b>		

## **SCHEDULE**

AIG Tech anticipates the project will follow the following timeline schedule:

- a) Contract execution and NTP – end of August 2024
- b) Survey to be provided – November 2024
- c) Preliminary Parcel roll plot – December 2024
- d) PER Meeting (based on LiDAR) – end of January 2025
- e) 70% milestone submittal – July 2025
- f) Final metes and bounds parcel mapping; Begin ROW acquisition – July 2025
- g) 95% milestone submittal – end of September 2025
- h) Final submittal – December 2025
- i) Utility adjustment/relocation – beginning August 2025
- j) Complete ROW acquisition; Complete Utility adjustment/relocations – July 2026

A detailed project design schedule is included as Attachment B.

**ATTACHMENTS**

**Attachment A – AIG Technical Services, LLC's Proposal Fee**

**Attachment B – Project Anticipated Design Schedule**

**Attachment C – Weisser Engineering Company's Surveying Services Proposal**

**Attachment D – Associated Testing Laboratories' Geotechnical Services Proposal**

Thank you and Regards,



**Gabriel Y. Johnson**

*Principal*

**AIG Technical Service, LLC**

[Gabe.Johnson@AIGtechnical.com](mailto:Gabe.Johnson@AIGtechnical.com)

Cell: 832.875.5923

## **Attachment A**

### **AIG Technical Services, LLC's Proposal Fee**



TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	PROJECT ADVISOR	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING SPECIALIST	SENIOR CADD/GIS OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
PHASE I - PRELIMINARY DESIGN PHASE (PER)													
PROJECT MANAGEMENT													
Project Administration (4 Month Schedule)	4		2							8	14		
Coordination with the County & BBI (Bi-weekly for 4 months)	5		2	10	5						22		
Coordination with the Subconsultants (Weisser E&S, Associated Testing) (Weekly or as needed)	4				8						12		
Coordination with the City of Fresno (Up to 2 Meetings)	2		1	1							4		
Coordination with TxDOT (Up to 4 Meetings)	4		2	2	4						12		
Coordination with neighborhood HOAs (Up to 1 Meeting each)	2		2								4		
Coordination with the Franchise Utilities (Up to 3 Meetings)	3		1	1	1						6		
DATA COLLECTION													
Obtain Survey Data (Aerial from other sources)	1				3			4			8		
Obtain As-builts, Drainage, Traffic, George Gordon Rd, Pecan Knl Dr, & FM 359 plans & Misc. Details	2			2	2		4	2			12		
Obtain FEMA Model and available Drainage Reports from Drainage District	1			1		2	4				8		
Obtain Existing Utilities Information within ROW & Prepare Owner List	2	1	1		4		8	6			22		
Conduct Site Visit & Log Findings	2			8	6		22	2	16		56		
Review Survey and Coordinate Additional Survey Needs				2			8				10		
Review and Evaluate Preliminary Drainage Reports and Methodologies Provided by the County				8			16				24		
DESIGN & EXHIBITS													
Develop Alignment Options (Plan View ONLY, Up-to 3 Alignments)	2	2	2	2	10		20	10			48	3	16
Develop Preliminary Profile (For Preferred Alternative)	2	2		2	6		10	8			30	1	30
Prepare Preliminary Cross Sections (OpenRoads Model - Preferred Alt)	2	2		4	4	40		20			72	3	24
Develop Proposed ROW Lines	1		1	4	8		10				24	1	24
Develop Preliminary TCP Layout (Preferred Alt)	2	1	1	4	8		8	16			40	2	20
Conduct Preliminary Drainage Analysis for Preferred Alternative													
Delineate Overall Drainage Areas				8			60		40		108	N/A	N/A
Develop Existing and Proposed Land Cover and Flow Paths (Runoff Coefficient, Time of Concentration)				8			60		40		108	N/A	N/A
Obtain Rainfall Intensity Coefficients and Calculate Rainfall intensities				8			16				24	N/A	N/A
Calculate Discharge for Design and Check Frequencies				8			16				24	N/A	N/A
Prepare Discharge Justifications		4	4	8		8	16				40	N/A	N/A
Perform H&H Analysis for Culvert Crossings (2) in Existing and Proposed Conditions				24			48				72	N/A	N/A
Perform H&H Analysis for Road Side Ditch in Existing and Proposed Conditions				40			96				136	N/A	N/A
Identify & Develop Preliminary Detention Pond Location (Up to 1 Alternatives)				40			96				136	N/A	N/A
Perform QA/QC for Hydrology and Hydraulics Analysis		16		24							40	N/A	N/A
Prepare Preliminary Exhibits for Waterline Relocation	2	1	1	4	16	20	32	20			96	15	6.4
Prepare Preliminary Exhibits for Franchise Utilities Coordination	2	1	1	4	12	4	16	8			48	8	6.0
Prepare Preliminary Exhibits for HOA/Neighborhood Coordination	2	1	1	4	8		12	8			36	4	9.0
Prepare Preliminary Exhibits for TxDOT Coordination (at FM 359)	2	1	1	4	8		12	8			36	3	12.0
PER													
Prepare 30% Plans (Typical Sections, Plan & Profile - proposed plan view only)	5		2	2	28		40	44			121	17	7
Prepare Executive Summary Letter	2		1	1	12		8				24	N/A	N/A
Prepare Preliminary Drainage Report			4	48			88		80		220	N/A	N/A
Attend a Preliminary Design Phase Meeting to Review PER	2		1		1						4	N/A	N/A
Preparation of Comment Responses	2				4		8				14	N/A	N/A
Final Submittal of Letter Report	4		2	4	8	24	14				56	N/A	N/A
Final Drainage Report			4	48			48		80		180	N/A	N/A
Develop Preliminary Construction Cost Estimate	1			2	8		8				19	N/A	N/A
PER & Drainage Report QA/QC		44									44	N/A	N/A
HOURS SUB-TOTALS	65	76	37	340	174	98	804	156	256	8	2014		
CONTRACT RATE PER HOUR	\$75.00	\$80.00	\$100.00	\$72.00	\$62.00	\$56.00	\$38.00	\$54.00	\$50.00	\$28.00			
TOTAL LABOR COSTS	\$4,875.00	\$6,080.00	\$3,700.00	\$24,480.00	\$10,788.00	\$5,488.00	\$30,552.00	\$8,424.00	\$12,800.00	\$224.00	\$107,411.00		
SUBTOTAL - PHASE I											\$107,411.00		

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	PROJECT ADVISOR	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	SENIOR CADD OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
PHASE II - FINAL DESIGN PHASE													
PROJECT MANAGEMENT												N/A	N/A
Project Administration (8 Month Schedule)	8		6		8					24	46		
Coordination with the County & BBI (Bi-weekly for 8 months)	10		4	4	10						28		
Coordination with the Subconsultants (Weisser E&S, Associated Testing) (Weekly or as needed)	36		16	24	12			12			100		
Coordination with the City of Fresno (Up to 2 Meetings)	2		1	1				4			8		
Coordination with TxDOT (Up to 3 Meetings)	3		1	2	6			10			22		
Coordination with the Neighborhood HOAs (Up to 3 Meetings)	3		3		4			12			22		
Coordination with the Franchise Utilities (Up to 3 Meetings)	3		1	2	4			12			22		
FINAL DESIGN - CONSTRUCTION PLANS (70%, 95% & FINAL)													
Cover Sheet	1						4		2		7	1	7
Index of Sheets				1	2		6		8		17	1	17
General Notes	2		1	4	6	8	2				23	4	6
Survey Control Sheets	1				2	4					7	2	4
Existing Typical Sections	1			2	4				8		15	1	15
Proposed Typical Sections	2			1	2				16		21	1	21
Removal (Demolition) Plans	2			8	16		20		40		86	6	14
Roadway Plan & Profile (1"=40' Scale 11"x17") Sheets)													
Rogers Rd	18		6	18	50	80	80	100			352	15	23
Cross Streets (3 Cross Streets)	4		2	6	10	16	16	18			72	3	24
Driveway Profile Table (24 Driveways)	2		2	8	16	16	16	24			84	1	84
Roadway Details (Intersection Grading Sheets)	2			4	10		10		8		34	3	11
Typical Roadway Standards	1			4	8		4		8		25	5	5
Overall Drainage Area Map				2		8			8		18	4	5
Interior Drainage Area map				2		12	8		40		62	8	8
Drainage Area Summary Sheet				2		4	6		4		16	2	8
Hydrology and Hydraulics Data Sheet				4		16	16		8		44	3	15
Culvert Crossing Layouts (2 Culverts)				8		54	8		76		146	2	73
Drainage Ditch Plan and Profile				8		48			96		152	15	10
Show Utility Conflicts on Drainage P&P Sheets						16			16		32	15	2
Roadside Ditch Outfalls						16			16		32	15	2
Detention Pond Layouts, Plan, Profile, Sections				8		54	8		76		146	4	37
Drainage Standard Details						8			8		16	8	2
Develop a 3D Model of the Proposed Improvements Using ORD-DU (Ditch)						40					40	N/A	N/A
Traffic Control Plans													
Phasing Layout with General Notes	2			4	10		14	8			38	2	19
Typical Construction Cross-sections	2		1	4	10		14	8			39	2	20
Advanced Warning Signs Layouts	1			4	12		13	8			38	2	19
Phase One Layouts (1"=40' scale)	6		2	16	24		28	40			116	8	15
Phase Two Layouts (1"=40' scale)	6		2	16	24		28	40			116	8	15
TCP Standards & Details	2			6	6		8	8			30	15	2
Storm Water Pollution Prevention Plans (1"=40' Scale)	2			8	16		24	24			74	8	9
Storm Water Pollution Prevention Plan Details	1			2	4		4	4			15	2	8
Signing and Pavement Marking Plans (1"=40' Scale)	4			8	16	20	24	24			96	8	12
Signing and Pavement Marking Details	1			1	2	8	2	2			16	2	8
Signing and Pavement Marking Standards	1			2	2		3	4			12	5	2
Traffic Signal Plan (Existing and Proposed)	3			6	12	28	12	16			77	2	39
Traffic Signal Conduct Plan	1			2	10	20	8	8			49	1	49
Traffic Signal Controller Details	1			2	10	20	8	8			49	1	49
Traffic Signal Standards	1			2	4	8	5	4			24	10	2
Cross Section Plans with Earthwork Tables (Develop Civil 3D Model)	5			8	12	45	20	25			115	22	5
Construction Cost Estimate (70%, 95% & Final)	4		2	6	12	15	15				54	N/A	N/A

Final Design QA/QC (70%, 95%, & Final)		80	12	14							106		
HOURS SUB-TOTALS	144	80	62	234	356	564	434	423	438	24	2759		
CONTRACT RATE PER HOUR (INCLUDE AVG HOURLY RATE TIME OVERHEAD AND FF)	\$75.00	\$75.00	\$100.00	\$72.00	\$64.00	\$56.00	\$38.00	\$54.00	\$50.00	\$28.00			
TOTAL LABOR COSTS	\$10,800.00	\$6,000.00	\$6,200.00	\$16,848.00	\$22,784.00	\$31,584.00	\$16,492.00	\$22,842.00	\$21,900.00	\$672.00	\$156,122.00		
SUBTOTAL - PHASE II											\$156,122.00		

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	PROJECT ADVISOR	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	SENIOR CADD OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
PHASE II - ADDITIONAL SERVICES													
POTENTIAL WATER LINE RELOCATION											0	N/A	N/A
Coordination with MUD (Up to 3 Meetings)	3		1	2	4			12			22		
Waterline Relocation Plan & Profiles (1"=40' Scale)	4		2	12	20	44	40	60			182	15	12
Waterline Details	2			6		8	6	4			26	5	5
HOURS SUB-TOTALS	9	0	3	20	24	52	46	76	0	0	230		
CONTRACT RATE PER HOUR (INCLUDE AVG HOURLY RATE TIME OVERHEAD AND FF)	\$75.00	\$75.00	\$100.00	\$72.00	\$64.00	\$56.00	\$38.00	\$54.00	\$50.00	\$28.00			
TOTAL LABOR COSTS	\$675.00	\$0.00	\$300.00	\$1,440.00	\$1,536.00	\$2,912.00	\$1,748.00	\$4,104.00	\$0.00	\$0.00	\$12,715.00		
SUBTOTAL - PHASE III											\$12,715.00		

Prime Summary - AIG Technical Services, LLC.	
I. BASE SERVICES	
PHASE I - Preliminary Design Phase (PER)	\$107,411.00
PHASE II - Final Design Phase	\$156,122.00
II. OPTIONAL ADDITIONAL SERVICES	
PHASE II - Potential Water Line Relocation	\$12,715.00
TOTAL COSTS FOR PRIME ONLY (W/O ADDITIONAL SERVICES)	\$263,533.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	\$0.00
RATE MULTIPLIER + PROFIT	2.40
GRAND TOTAL (W/O ADDITIONAL SERVICES)	\$632,479.20

Survey - Weisser Engineering Company	
I. BASE SCOPE OF SERVICES	
1. Survey Control (Lump Sum)	\$17,320.00
2. Existing Right of Way Mapping (Cat. 1B, Cond. 3)	\$27,650.00
3. Topographic Surveying (Cat. 6, Cond. 1) (Lump Sum)	\$45,630.00
II. OPTIONAL ADDITIONAL SERVICES	
1. Project Control for Construction	\$5,775.00
2. Parcel Surveys (12 parcels @ \$2,500.00)	\$30,000.00
3. Detention Pond	\$3,575.00
4. Interim Right-Of-Way Staking (4 days @ \$2,115.00)	\$8,460.00
5. Soil Boring Locations (1 trip)	\$2,530.00
6. Level "A" SUE	\$13,930.00
Total	\$154,870.00

Geotechnical Services - Associated Testing Laboratories	
I. BASE SCOPE OF SERVICES	\$54,953.00
Subsurface Exploration, Laboratory Testing, Geotechnical Consulting and Reporting. *	
II. OPTIONAL ADDITIONAL SERVICES (DETENTION POND)	\$28,501.00
Site Clearing	\$3,600.00
Subsurface Exploration, Laboratory Testing, Geotechnical Consulting and Reporting. *	
Total	\$87,054.00

\* This estimate assumes that:

(i) underground utilities at proposed boring locations will be cleared by Texas 811 Call Service and/or private property maintenance personnel;

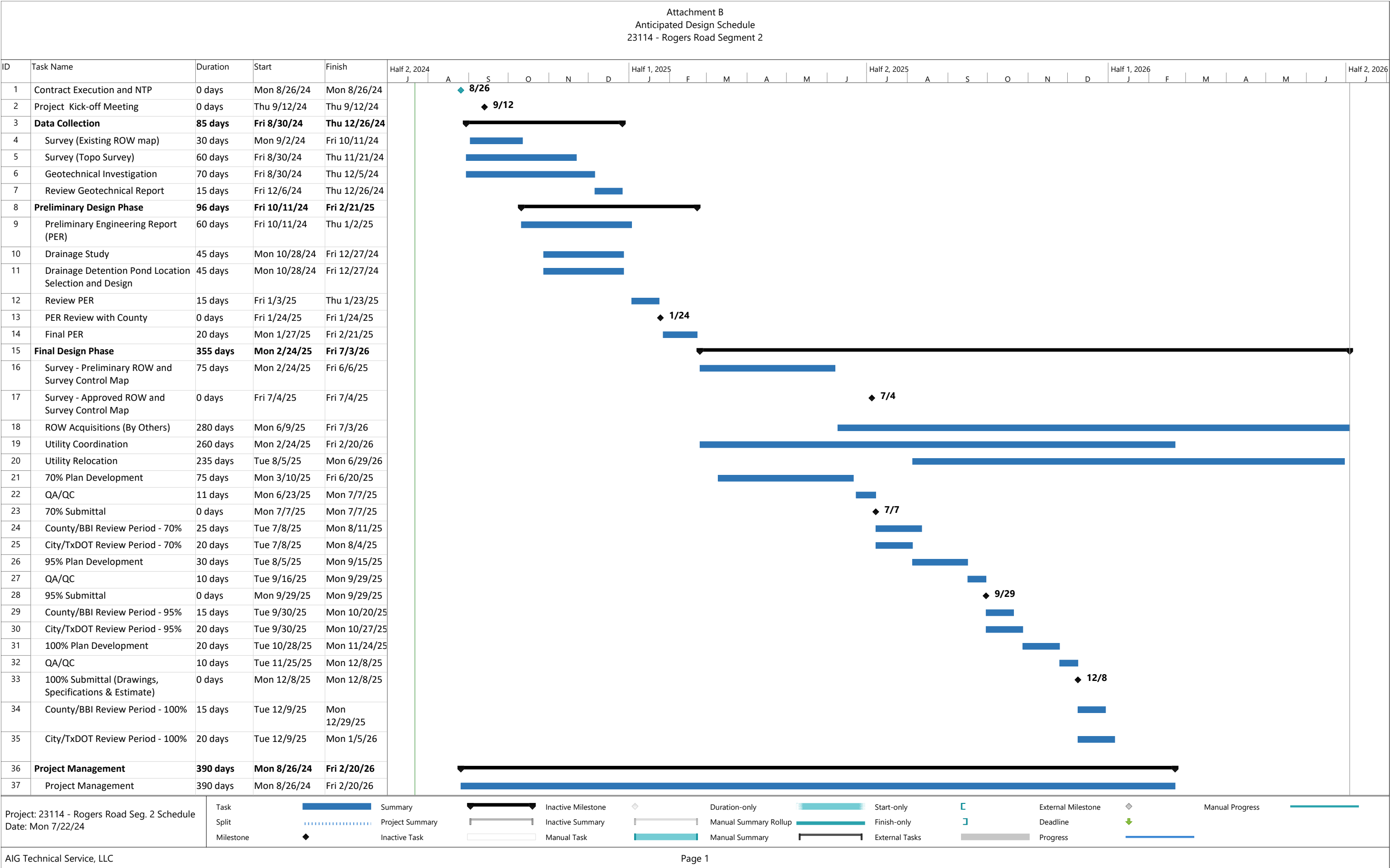
(ii) the boring sites will be accessible to our truck-mounted drill rig equipment;

(iii) permission/permit to access the site if needed, will be arranged by others at no cost to ATL.

Subtotal - Professional Services Budget	\$778,032.20
Proposed ROW Survey & Mapping and Parcel Acquisition	\$38,460.00
Additional Services - Water Line Relocation	\$30,516.00
Additional Services - SUE Level A, Control for Construction & Detention Pond	\$25,810.00
Additional Services - Detention Pond Geotechnical Investigations	\$32,101.00
Grand Total (Including Additional Services)	\$904,919.20

## **Attachment B**

### **Project Anticipated Design Schedule**



## **Attachment C**

### **Weisser Engineering Company's Surveying Services Proposal**

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**PROPOSAL AGREEMENT FOR PROFESSIONAL SERVICES**

Effective Date: July 2, 2024

Abraham Rebollar, P.E.  
AIG Tech  
1500 S. Dairy Ashford, Suite 445  
Houston, TX 77077  
281-921-8654  
[Abraham.Rebollar@aigtechnical.com](mailto:Abraham.Rebollar@aigtechnical.com)

Proposal for Professional Services in Connection With: Rogers Road, Segment 2 (as shown on the attached aerial images), Fort Bend County, Texas

Weisser Engineering & Surveying is pleased to submit this proposal and terms of service (together, the "Agreement") to AIG Tech (the "Client").

**I. BASE SCOPE OF SERVICES**

**Surveying and Mapping**

The Surveyor shall evaluate the existing ROW envelope and make recommendations for the acquisition of ROW necessary for the Project including but not limited to roadway, corner cuts, sight distance triangles, detention, and outfalls, if necessary. The Surveyor shall establish a project baseline based on the centerline of the right-of-way, or the existing baseline if available. The Surveyor shall create an existing utility list (Excel Format) including owner and contact information for available existing utilities within the project limits to be supplied to the Engineering Consultant to complete the identification of potential utility conflicts. The Surveyor shall sign and seal all survey documents.

**The specific survey limits are as follows and shown on the attached Aerial Images:**

The linear topographic and right-of-way survey will begin at the intersection of Farm to Market 359 and Rogers Road, then proceed west along Rogers Road approximately 6,200 linear feet. Limits also include 200 feet north and south on FM 359, for an approximate total length of **6,600 linear feet**. (As Shown on the Attached Aerial Images)

**1. Survey Control**

- a. Horizontal and Vertical Survey Control for each site shall be referenced to the nearest Fort Bend County Survey Control Monument, or NGS if no County Monuments are established.
- b. Survey Control Points will be established at 1,000-foot maximum intervals and tied to the Calculated Alignment for each site.
- c. Deliverable will be Signed and Sealed Survey Control Maps per Fort Bend County standards with Detail Sketches in PDF format and CAD Files.

**COST: \$17,320.00**

2-Person Survey Crew	32 hrs @ \$145/hr	\$4,640.00
Survey Technician	50 hrs @ \$110/hr	\$5,500.00
CADD Technician	50 hrs @ \$95/hr	\$4,750.00
Clerical	3 hrs @ \$65/hr	\$ 195.00
Field Coordinator	3 hrs @ \$105/hr	\$ 315.00
RPLS	12 hrs @ \$160/hr	\$1,920.00



## 2. Existing Right of Way Mapping (Cat. 1B, Cond. 3)

- a. Perform abstract survey; obtain deeds of record, and plats for the right-of-way, streets intersecting and tracts of land adjoining the project limits.
- b. Establish the existing right-of-way and boundary lines adjoining the project limits.
- c. Deliverable will be Signed and Sealed existing Right-of-Way Map Sheets in PDF format per Fort Bend County standards and CAD Files.

**COST: \$27,650.00**

2-Person Survey Crew	50 hrs @ \$145/hr	\$ 7,250.00
Survey Technician	95 hrs @ \$110/hr	\$10,450.00
CADD Technician	50 hrs @ \$95/hr	\$ 4,750.00
Clerical	3 hrs @ \$65/hr	\$ 195.00
Field Coordinator	5 hrs @ \$105/hr	\$ 525.00
RPLS	28 hrs @ \$160/hr	\$ 4,480.00

## 3. Topographic Surveying (Cat. 6, Cond. 1)

The Surveyor will provide the following within the surveying limits described above:

- a. For the roadway and ditches, obtain cross-sections at 100-foot intervals with grade breaks. Cross-sections shall extend 20 feet beyond the proposed right-of-way where accessible. Topographic Survey will include the following: Identify locations and elevations of physical features to include edges or curbs and gutters of pavement, parking lanes, center of the median, fences, walls, tree-lines (individual tree locations is not included), sidewalks, driveways and driveway curbs, power poles, light poles, water meters, water wells, ponds, sprinklers, off-site drain pipe, elevations at ditch banks, toe, flow line, and side slope, etc. Horizontally and vertically locate available existing utilities within, crossing, and adjoining project limits. Utilities will be located and tied based on visual evidence and marked by "One Call" within the project limits. The rim (top) and flow line elevations will be obtained on inlets, manholes (sanitary and storm), and drainage structures, including culverts, SETs, etc. The rise, width, flowlines, etc. of the drainage elements will be obtained where accessible.
- b. The Surveyor will coordinate with SUE consultant (if applicable), pipeline companies, municipal utility districts (MUDs), homeowner's associations (HOA's), the County, and private utility agencies to obtain locations of available existing utilities and depths of existing pipelines. These will be shown with the rest of the survey.
- c. Prepare existing Signed and Sealed Topographic Survey Map of the Project to be delivered in PDF per Fort Bend County standards and CAD Files.

**COST: \$45,630.00**

2-Person Survey Crew	145 hrs @ \$145/hr	\$21,025.00
Survey Technician	28 hrs @ \$110/hr	\$ 3,080.00
CADD Technician	125 hrs @ \$95/hr	\$11,875.00
Clerical	6 hrs @ \$65/hr	\$ 390.00
Field Coordinator	12 hrs @ \$105/hr	\$ 1,260.00
RPLS	50 hrs @ \$160/hr	\$ 8,000.00

**TOTAL COST FOR BASE SERVICES: \$90,600.00**

## **II. OPTIONAL ADDITIONAL SERVICES**

### **1. Project Control for Construction**

- a. Recover or re-establish project control referenced to the project baseline for construction.

**COST: \$5,775.00**

### **2. Parcel Surveys**

- a. Prepare metes and bounds descriptions and parcel plats in accordance with Fort Bend County guidelines for property acquisition and add parcels to the existing right-of-way maps.

**COST: \$2,500.00 per parcel (estimated 12 parcels)**

**Total Cost for Parcel Surveys: \$30,000.00**

### **3. Detention Pond**

- a. Boundary and topographic survey of one 1.5 to 2-acre detention pond (location to be determined). Cost assumes site will not be heavily wooded. A heavily wooded site may require additional efforts.

**COST: \$3,575.00**

### **4. Interim Right-Of-Way Staking**

- a. Staking of the Proposed Right-of-Way at 100-200-foot intervals with wooden stakes. Estimate 2,000 linear feet of staking per day.

**COST: \$2,115.00 per day (estimated 4 days to complete)**

**Total Cost for Interim ROW Staking: \$8,460.00**

### **5. Soil Boring Locations**

- a. Field Locate Soil Borings performed by others.
- b. Soil Borings will be added into existing CAD files.

**COST: \$2,530.00  
(assumes one trip to locate all Soil Borings)**

### **6. Level "A" SUE**

- a. Cost includes a maximum of six Test Holes up to a depth of twenty feet.
- b. Data Sheets for each Test Hole will be provided.
- c. Location and elevation of each Test Hole will be included in Survey Deliverables.
- d. Cost does not include Traffic Control Plan if required.

**COST: \$13,930.00**

We appreciate the opportunity to provide this proposal. If you have any questions or comments, please do not hesitate to contact John Harvill, RPLS ([jharvill@weissereng.com](mailto:jharvill@weissereng.com)).

The Client, by signing below, represents that he or she has the authority to enter into this Agreement, agrees to the terms and conditions in this Agreement, is willing to be the Responsible Party, promises to pay the invoiced amount within thirty (30) days of invoicing, and authorizes Weisser Engineering & Surveying to proceed with the Services as described above.

**CLIENT**

AIG Tech

By:  \_\_\_\_\_

Printed Name: Deepali Loney

Title: CEO

Date of Acceptance: 9/18/24

**WEISSER ENGINEERING & SURVEYING**

By:  \_\_\_\_\_

Printed Name: Taylor R. Sass

Title: President & CEO

Date of Acceptance: 07/02/2024


Please provide an email address for Accounts Payable contact for invoicing purposes:

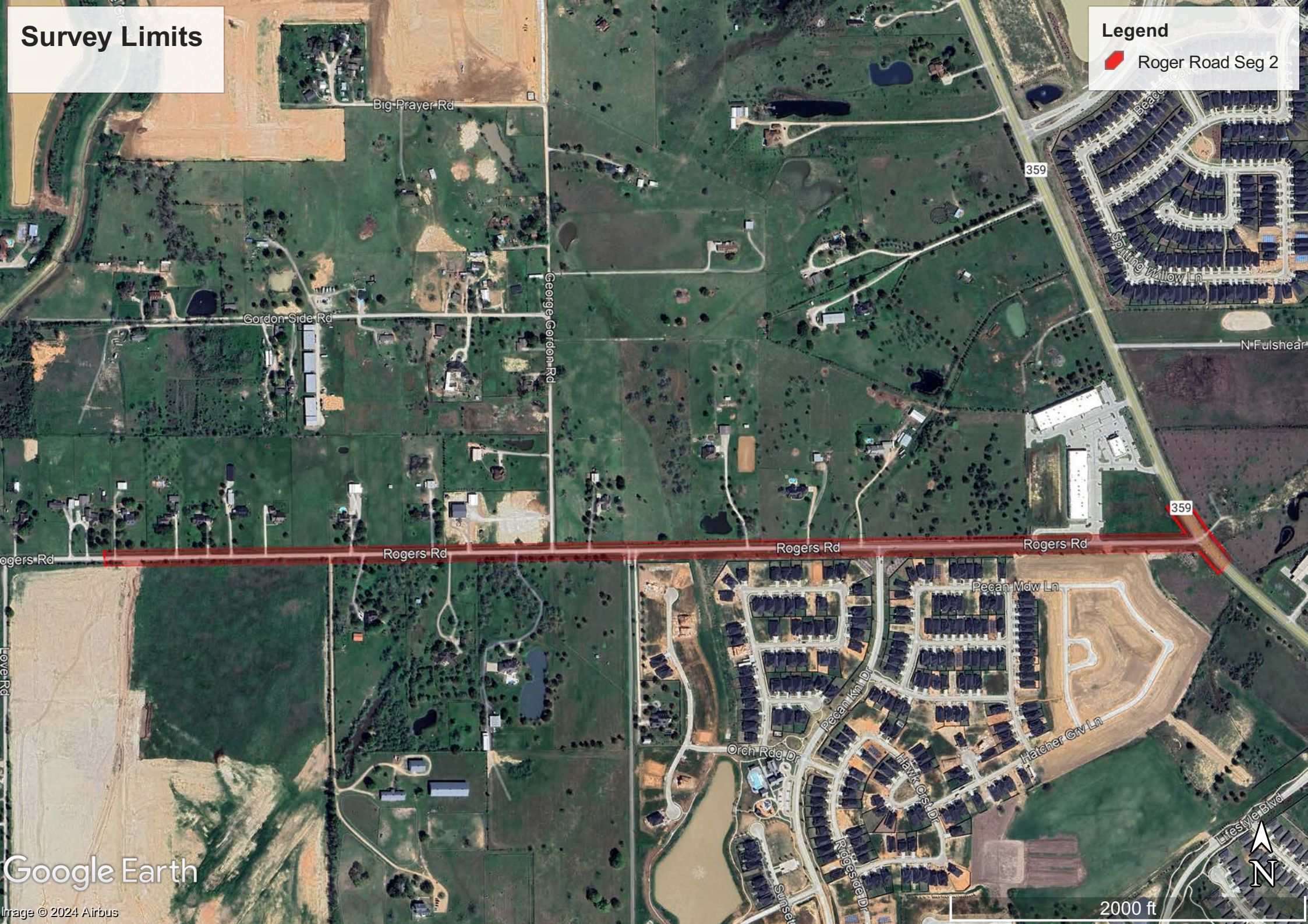
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# Survey Limits

Legend

 Roger Road Seg 2





## **Attachment D**

### **Associated Testing Laboratories' Geotechnical Services Proposal**

# Associated Testing Laboratories Project Proposal







Established in 1959, Associated Testing Laboratories was one of the first testing labs in Houston. Since then, ATL has served as a cornerstone of infrastructure development in the region. With decades of industry experience and a steadfast dedication to precision, we stand as your trusted partners in quality assurance.

At ATL, our professional engineers and certified lab technicians are armed with expertise, passion, and a relentless drive for excellence. We are continuously refining our processes to ensure the most advanced and effective solutions available for our clients.



**GEOTECHNICAL  
ENGINEERING**



**CONSTRUCTION  
MANAGEMENT**



**ENVIRONMENTAL  
ENGINEERING**



**CONSTRUCTION MATERIALS  
TESTING & INSPECTION**

- ✓ **A2LA accredited**
- ✓ **Certified field & lab technicians**
- ✓ **Professional insurance coverage**
- ✓ **In-house lab**

10450 Corporate Drive,  
Sugar Land, TX 77478



# Geotechnical Engineering

Every infrastructure project requires consideration of sub-surface features, unique to each project site.

Geotechnical engineering is crucial to ensure the safety, stability, and cost-effectiveness of a project.





July 3, 2024

Proposal No: GP24-0608

**Mr. Abraham Rebollar, P.E.**  
*Project Manager*  
**AIG Tech**  
**1500 S. Dairy Ashford Suite 445**  
**Houston, Texas 77077**

**Reference: Proposal for Geotechnical Investigation**  
**Rogers Road Segment 2 - Paving**  
**Fort Bend County, Texas**

Mr. Rebollar:

Associated Testing Laboratories, Inc. (ATL) is pleased to submit a proposal for the above-referenced project. The geotechnical field investigation, testing, and soil data report should comply with the requirements of Fort Bend County Engineering Guidelines.

## **INTRODUCTION**

We understand that **AIG Tech** was awarded to construct Rogers Rd-Segment 2 project by Fort Bend County to provide design engineering services for paving projects.

## **SCOPE OF WORK:**

Based on the available project information, ATL proposes thirteen (13) soil borings 15 ft deep along Rogers Road Segment 2 paving. The project length is approximately 6,200 LF West of FM 359 as shown in **Figure 1**.

The objective of this geotechnical investigation is to perform soil borings along the project area, gather and analyze the field and laboratory geotechnical information and data, and prepare a written report presenting the subsurface conditions found along the project alignments, with geotechnical recommendations for the design and construction of the proposed paving widening.

## **GEOTECHNICAL INVESTIGATION**

### **Field Exploration**

All the proposed thirteen (13) borings are located in existing street pavement areas. Mechanical truck coring machines will perform coring in boring locations before soil drilling and sampling. The borings will be drilled using a truck-mounted rig.

The project alignment is located on a 2-lane-traffic road. Thus, traffic control measures including

signs, cones, as well as flagmen will be required during pavement coring and at the time of pavement coring and actual soil drilling and sampling.

Based on the available project information, ATL proposes the following borings to investigate the subsurface soils and groundwater conditions. The site location plan is presented in **Figure 1** as shown in Table below:

Boring No. (Piezometer)	No of Borings	Street / Location	Depth, ft	Total, ft
B-1 thru B-13	13	Rogers Road Segment 2	15	195
TOTAL, LINEAR FEET, LF				195 LF

*\*Piezometer PZ-1 will be installed after drilling and sampling B14*

Soil samples will be obtained continuously to 15 ft deep to the termination depths. Standard Penetration Tests (SPT) will be performed in sands if encountered, and clays will be sampled by Shelby tube. Shear strengths of the clays will be measured in the field with a hand penetrometer and correlations between this data and laboratory shear strength data will be made during analysis.

Depth to groundwater will be important for the design and construction of this project. For this reason, the borings will be drilled dry until groundwater is encountered, or caving of soils occurs. Drilling will be suspended for 15 minutes to facilitate water level observation in the boring. After recording the water level, drilling will be resumed. The boreholes will be backfilled with soil cuttings and the pavement surface core will be patched back with lean concrete.

### **Laboratory Testing**

Laboratory tests will be assigned corresponding to the types of soils encountered to classify the soil's physical and index properties, moisture contents, unconfined compressive strength, undrained unconsolidated compressive strength, Atterberg limits, percent finer than No. 200 sieve, sieve analysis, dry density, crumb test, double hydrometer test, consolidated undrained triaxial test, and specific gravity.

All tests will be performed in accordance with the American Society of Testing Materials (ASTM) Procedures. Estimated test types and quantities are presented on the attached sheet.

### **Engineering Analyses and Reporting**

The field and laboratory data will be summarized in an engineering report. Analyses of data will be presented, and recommendations made in accordance with the Fort Bend County Engineering Criteria Guidelines. The following geotechnical information and recommendations will be provided:

- Boring logs in GeoLogs format and boring log profiles showing the generalized soil stratigraphy and groundwater levels.

- Site preparation and grading.
- Discussion of subsurface soils and stratigraphy and groundwater information.
- Recommendations for roadside drainage excavation.
- Select fill requirements & fill placements.
- Suitability for reuse of on-site soil.
- Dewatering consideration and recommendations.
- Pavement recommendations.

### **COST ESTIMATE**

Based on the scope of geotechnical work outlined above, we estimate the following costs:

Geotechnical Investigation for Proposed	Estimated Fee
Proposed Rogers Road Segment 2	<b>\$54,953.00</b>

The cost estimates using the project quantities and requirements are presented in the enclosed **Itemized Geotechnical Fee Estimate** spreadsheet. This estimate assumes that: (i) underground utilities at proposed boring locations will be cleared by Texas 811 Call Service and/or private property maintenance personnel; (ii) the boring sites will be accessible to our truck-mounted drill rig equipment; (iii) permission/permit to access the site if needed, will be arranged by others at no cost to ATL.

### **TIME SCHEDULES**

We estimate that the fieldwork can be started immediately after authorization is received. The field staking and utility clearance will take about two weeks. The field investigation will require about 3 to 5 weeks (assuming no complications in site access, site clearing, or weather permitting), and the regular laboratory testing will take about 3 to 4 weeks after drilling. The draft geotechnical report will be submitted approximately 10 to 12 weeks after receiving the official notice to proceed.

We appreciate the opportunity to submit this proposal and look forward to serving you on this project.

Thank you,  
ASSOCIATED TESTING LABORATORIES, INC.



Anita Singh, P.E.  
Principal



Enclosure:  
Figure1 – Boring Location Plan

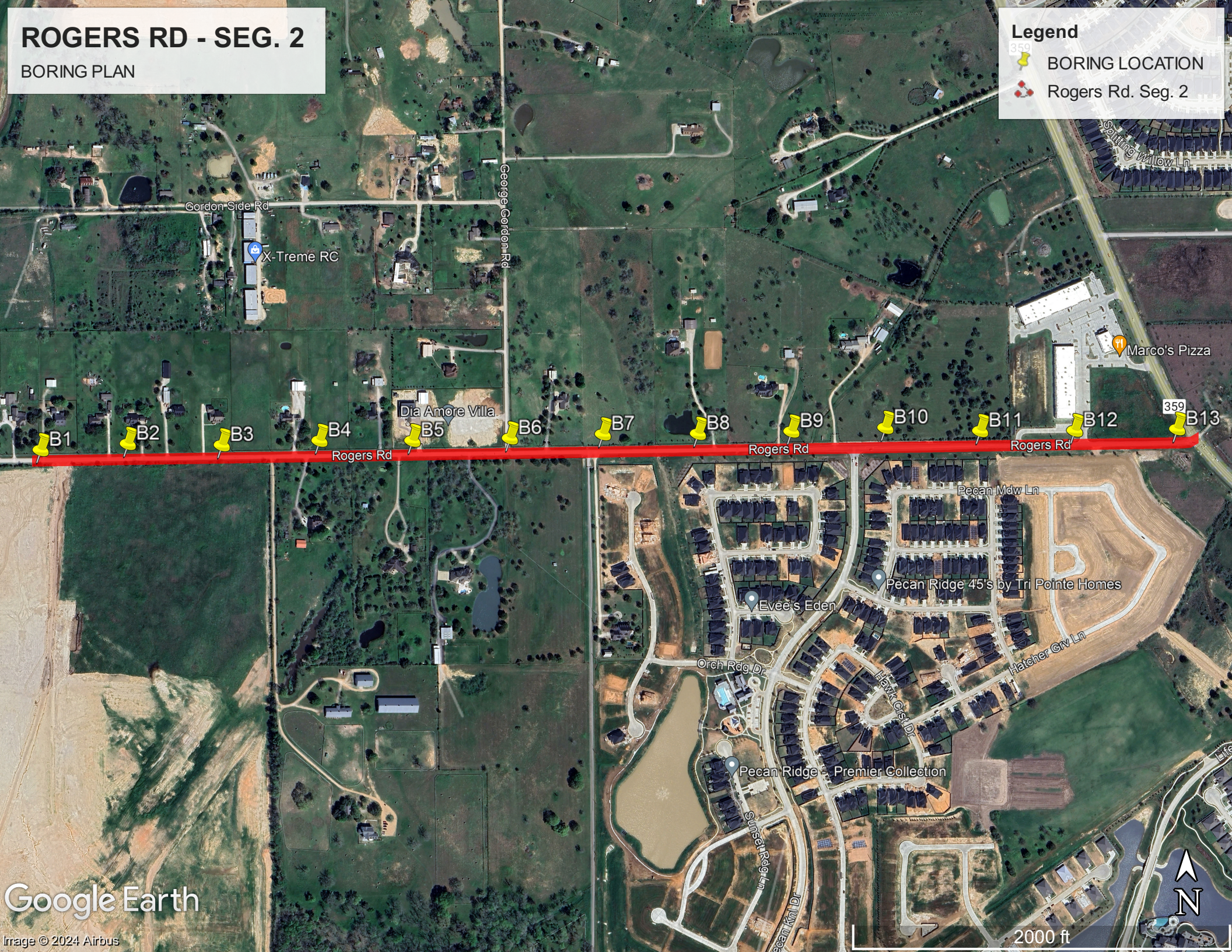


# ROGERS RD - SEG. 2

BORING PLAN

## Legend

-  BORING LOCATION
-  Rogers Rd. Seg. 2





**Geotechnical Investigation Proposal**  
Rogers Road Segment 2

Fort Bend County, Texas  
ATL Proposal No. GP2024-0608\_A  
July 3, 2024



**ITEMIZED GEOECHANICAL FEE ESTIMATE**

**Rogers Road Segment 2**

Borings: 13@15' [195 LF]

<b>A. FIELD EXPLORATION</b>	<b>Current Qty.</b>	<b>Unit</b>	<b>Unit Rate</b>	<b>Amount</b>
Mobilization/Demobilization (Truck Rig)	1	LS	\$746.00	\$746.00
Mobilization/Demobilization - ATV Rig Surcharge	0	LS	\$266.00	\$0.00
Technician for Staking, Utilities Clearance, Coordination	24	hrs.	\$96.00	\$2,304.00
Soil Drilling and Sampling (continuous; <up to 20')	195	ft.	\$27.00	\$5,265.00
Soil Drilling and Sampling (20'-50' continuous)	0	ft.	\$32.00	\$0.00
ATV Surcharge	0	ft.	\$11.00	\$0.00
Soil Drilling and Sampling (0'-50' intermittent)	0	ft.	\$24.00	\$0.00
Logging (NICET II)	24	hr.	\$96.00	\$2,304.00
Grouting Holes	195	ft.	\$13.00	\$2,535.00
Coring (6-inches)	13	ea.	\$192.00	\$2,496.00
Coring (>6-inches thickness)	78	ft.	\$18.00	\$1,404.00
Piezometer Installation	0	ft.	\$26.00	\$0.00
Piezometer Abandonment	0	ft.	\$21.00	\$0.00
24-Hr, 7-Day & 1 month PZ Water Level Readings	0	hrs.	\$96.00	\$0.00
Vehicle Charge	24	hrs.	\$13.00	\$312.00
	<b>SUBTOTAL</b>			<b>\$17,366.00</b>

<b>B. GEOTECHNICAL LABORATORY TESTING</b>		<b>Unit</b>	<b>Unit Rate</b>	<b>Amount</b>
Moisture Content (ASTM D-2216)	98	ea.	\$12.00	\$1,176.00
Atterberg Limits (ASTM D-4318)	39	ea.	\$76.00	\$2,964.00
Passing No. 200 Sieve (ASTM D-1140)	39	ea.	\$59.00	\$2,301.00
Unconfined Compression (ASTM D-2166)	19	ea.	\$54.00	\$1,026.00
Unconsolidated-Undrained Triaxial Test (ASTM D-2850)	20	ea.	\$77.00	\$1,540.00
Consolidated-Undrained Triaxial Test (ASTM D-4767) *3-stage w/3 samples/set	0	ea.	\$1,800.00	\$0.00
Double Hydrometer Tests (ASTM D-4221), with D <sub>90</sub> and D <sub>50</sub>	0	ea.	\$266.00	\$0.00
Crumb Tests (ASTM D-6572)	0	ea.	\$46.00	\$0.00
Specific Gravity (ASTM D854)	0	ea.	\$71.00	\$0.00
	<b>SUBTOTAL</b>			<b>\$9,007.00</b>

<b>D. TRAFFIC CONTROL</b>				
Flagmen	64	hrs.	\$40.00	\$2,560.00
Peace Officer	20	hrs.	\$75.00	\$1,500.00
	<b>SUBTOTAL</b>			<b>\$4,060.00</b>

<b>D. ANALYSES &amp; REPORT PREPARATION</b>		<b>Unit</b>	<b>Unit Rate</b>	<b>Amount</b>
Senior Engineer (P.E.)	35	hrs.	\$218.00	\$7,630.00
Project Manager (P.E.)	40	hrs.	\$176.00	\$7,040.00
Graduate Engineer	50	hrs.	\$122.00	\$6,100.00
Draftsman/word Processor	50	hrs.	\$75.00	\$3,750.00
	<b>SUBTOTAL</b>			<b>\$24,520.00</b>

<b>TOTAL ESTIMATED FEE OF PROPOSED SCOPE</b>				<b>\$54,953.00</b>
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# Associated Testing Laboratories Project Proposal







Established in 1959, Associated Testing Laboratories was one of the first testing labs in Houston. Since then, ATL has served as a cornerstone of infrastructure development in the region. With decades of industry experience and a steadfast dedication to precision, we stand as your trusted partners in quality assurance.

At ATL, our professional engineers and certified lab technicians are armed with expertise, passion, and a relentless drive for excellence. We are continuously refining our processes to ensure the most advanced and effective solutions available for our clients.



**GEOTECHNICAL  
ENGINEERING**



**CONSTRUCTION  
MANAGEMENT**



**ENVIRONMENTAL  
ENGINEERING**



**CONSTRUCTION MATERIALS  
TESTING & INSPECTION**

- ✓ **A2LA accredited**
- ✓ **Certified field & lab technicians**
- ✓ **Professional insurance coverage**
- ✓ **In-house lab**

10450 Corporate Drive,  
Sugar Land, TX 77478



# Geotechnical Engineering

Every infrastructure project requires consideration of sub-surface features, unique to each project site.

Geotechnical engineering is crucial to ensure the safety, stability, and cost-effectiveness of a project.



July 3, 2024

Proposal No: GP24-0608

**Mr. Abraham Rebollar, P.E.**  
***Project Manager***  
**AIG Tech**  
**1500 S. Dairy Ashford Suite 445**  
**Houston, Texas 77077**

**Reference:   Proposal for Geotechnical Investigation**  
**Rogers Road Segment 2 -Detention Pond**  
**Fort Bend County, Texas**

Mr. Rebollar:

Associated Testing Laboratories, Inc. (ATL) is pleased to submit a proposal for the above-referenced project. The geotechnical field investigation, testing, and soil data report should comply with the requirements of Fort Bend County Engineering Guidelines.

## **INTRODUCTION**

We understand that **AIG Tech** is currently under contract with Fort Bend County to provide design engineering services for the proposed 1.14-acre detention pond at Rogers Road Segment 2.

## **SCOPE OF WORK:**

We understand that the location of the detention pond will be determined. It is our assumption that the bottom depth will be 10 feet below existing grade. ATL proposes two (2) borings at 30 ft deep for the detention pond below existing grade. One (1) piezometer will be installed to monitor 24-hour, 15-day, and 30-day water level readings.

The objective of this geotechnical investigation is to perform soil borings along the detention pond project area, gather and analyze the field and laboratory geotechnical information and data, and prepare a written report presenting the subsurface conditions found with geotechnical recommendations for the design and construction of the proposed detention pond.

## **GEOTECHNICAL INVESTIGATION**

### **Field Exploration**

All the proposed boring locations are not known at the time of this proposal. The use of a dozer-clearing machine may be needed on detention pond areas before actual soil drilling and sampling. Borings will be drilled using an ATV (all-terrain mounted) drill rig.

Based on the available project information, ATL proposes the following borings to investigate the subsurface soils and groundwater conditions. The site location plan is presented as shown in Table A below:

Boring No.	No of Borings	Location	Depth, ft	Total, ft
DB-1 & DB-2	2	Pond	30	60
PZ-2 & PZ-3			*30	*30

*\*Piezometer PZ-1 will be installed to a depth of 30 ft. after sampling and drilling.*

Soil samples will be obtained continuously to 20 ft and every 5 ft interval thereafter to the termination depths. Standard Penetration Tests (SPT) will be performed in sands if encountered, and clays will be sampled by Shelby tube. Shear strengths of the clays will be measured in the field with a hand penetrometer and correlations between this data and laboratory shear strength data will be made during analysis.

Depth to groundwater will be important for the design and construction of this project. For this reason, the borings will be drilled dry until groundwater is encountered, or caving of soils occurs. Drilling will be suspended for 15 minutes to facilitate water level observation in the boring. After recording the water level, drilling will be resumed. The boreholes will be backfilled with soil cuttings after drilling.

#### **Laboratory Testing**

Laboratory tests will be assigned corresponding to the types of soils encountered to classify the soil's physical and index properties, moisture contents, unconfined compressive strength, undrained unconsolidated compressive strength, Atterberg limits, percent finer than No. 200 sieve, sieve analysis, dry density, crumb test double hydrometer test, specific gravity test, and consolidated undrained triaxial test.

All tests will be performed in accordance with the American Society of Testing Materials (ASTM) Procedures. Estimated test types and quantities are presented on the attached sheet.

#### **Engineering Analyses and Reporting**

The field and laboratory data will be summarized in an engineering report. Analyses of data will be presented, and recommendations made in accordance with the Fort Bend County Engineering Criteria Guidelines. The following geotechnical information and recommendations will be provided:

- Boring logs in GeoLogs format and boring log profiles showing the generalized soil stratigraphy and groundwater levels.
- Discussion of subsurface soils and stratigraphy and groundwater information.
- Dewatering consideration and recommendations.
- Piezometer installation and groundwater measurements.

- Slope stability analyses for short-term, rapid drawdown, and long-term conditions.
- Soil dispersion tests (Crumb and Double Hydrometer - D<sub>95</sub> & D<sub>50</sub> values) for the Detention Ponds).

### **COST ESTIMATE**

Based on the scope of geotechnical work outlined above, we estimate the following costs:

Geotechnical Investigation for Proposed	Estimated Fee
Rogers Road Segment 2 – Detention Pond	<b>\$28,501.00</b>
Site Clearing - for 1.14 acre	<b>\$3,600.00</b>

The cost estimates using the project quantities and requirements are presented in the enclosed **Itemized Geotechnical Fee Estimate** spreadsheet. This estimate assumes that: (i) underground utilities at proposed boring locations will be cleared by Texas 811 Call Service and, or private property maintenance personnel; (ii) the sites will be accessible to our ATV (all-terrain vehicle) mounted drill rig equipment; (iii) permission/permit to access the site if needed, will be arranged by others at no cost to ATL.

### **TIME SCHEDULES**

We estimate that the fieldwork can be started immediately after authorization is received. The field staking and utility clearance will take about two weeks. The field investigation will require about 3 to 5 weeks (assuming no complications in site access, site clearing, or weather permitting), and the regular laboratory testing will take about 3 to 4 weeks after drilling. The draft geotechnical report will be submitted approximately 10 to 12 weeks after receiving the official notice to proceed.

We appreciate the opportunity to submit this proposal and look forward to serving you on this project.

Thank you,  
ASSOCIATED TESTING LABORATORIES, INC.



Anita Singh, P.E.  
Principal



**Geotechnical Investigation Proposal**  
Rogers Road Segment 2 - Detention Pond

Fort Bend County, Texas  
ATL Proposal No. GP2024-0608\_A  
July 3, 2024



**ITEMIZED GEOECHANICAL FEE ESTIMATE**

**Rogers Road Segment 2 - Detention Pond**

Borings: 2@30' [60 LF] & Piezometers: 1@30', [30 LF]

A. FIELD EXPLORATION	Current Qty.	Unit	Unit Rate	Amount
Mobilization/Demobilization (Truck Rig)	1	LS	\$746.00	\$746.00
Mobilization/Demobilization - ATV Rig Surcharge	1	LS	\$266.00	\$266.00
Technician for Staking, Utilities Clearance, Coordination	16	hrs.	\$96.00	\$1,536.00
Soil Drilling and Sampling (continuous; <up to 20')	40	ft.	\$27.00	\$1,080.00
Soil Drilling and Sampling (20'-50' continuous)	20	ft.	\$32.00	\$640.00
ATV Surcharge	60	ft.	\$11.00	\$660.00
Soil Drilling and Sampling (0'-50' intermittent)	0	ft.	\$24.00	\$0.00
Logging (NICET II)	24	hr.	\$96.00	\$2,304.00
Grouting Holes	0	ft.	\$13.00	\$0.00
Piezometer Installation	30	ft.	\$26.00	\$780.00
Piezometer Abandonment	30	ft.	\$21.00	\$630.00
24-Hr, 7-Day & 1 month PZ Water Level Readings	24	hrs.	\$96.00	\$2,304.00
Vehicle Charge	24	hrs.	\$13.00	\$312.00
	SUBTOTAL			\$11,258.00
B. GEOTECHNICAL LABORATORY TESTING		Unit	Unit Rate	Amount
Moisture Content (ASTM D-2216)	30	ea.	\$12.00	\$360.00
Atterberg Limits (ASTM D-4318)	12	ea.	\$76.00	\$912.00
Passing No. 200 Sieve (ASTM D-1140)	12	ea.	\$59.00	\$708.00
Unconfined Compression (ASTM D-2166)	6	ea.	\$54.00	\$324.00
Unconsolidated-Undrained Triaxial Test (ASTM D-2850)	8	ea.	\$77.00	\$616.00
Consolidated-Undrained Triaxial Test (ASTM D-4767) *3-stage w/3 samples/set	1	ea.	\$1,800.00	\$1,800.00
Double Hydrometer Tests (ASTM D-4221), with D <sub>90</sub> and D50	2	ea.	\$266.00	\$532.00
Crumb Tests (ASTM D-6572)	20	ea.	\$46.00	\$920.00
Specific Gravity (ASTM D854)	1	ea.	\$71.00	\$71.00
	SUBTOTAL			\$6,243.00
C. ANALYSES & REPORT PREPARATION		Unit	Unit Rate	Amount
Senior Engineer (P.E.)	10	hrs.	\$218.00	\$2,180.00
Project Manager (P.E.)	20	hrs.	\$176.00	\$3,520.00
Graduate Engineer	25	hrs.	\$122.00	\$3,050.00
Draftsman/word Processor	30	hrs.	\$75.00	\$2,250.00
	SUBTOTAL			\$11,000.00
TOTAL ESTIMATED FEE OF PROPOSED SCOPE				\$28,501.00