

**SUPPLEMENTAL WORK AUTHORIZATION NO. 1**  
**TO**  
**WORK AUTHORIZATION NO. 1**

**WILLIAMSON COUNTY ROAD BOND PROJECT:**  
**East Wilco Highway Segment 6**

This Supplemental Work Authorization No. 1 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated March 19, 2024 (“Contract”) and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Halff Associates, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective March 22, 2024 (the “Work Authorization”);

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

**AGREEMENT**

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be Provided by the Engineer that were set out in the original Attachment “B” of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment “B” (must be attached).
- II. The Work Authorization shall terminate on March 23, 2029. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment “C” (must be attached).
- III. The maximum amount payable for services under this Work Authorization without modification decreased by \$849,891.15 from \$5,282,651.04 to \$4,432,759.89. The Fee Schedule is attached hereto as Attachment “D” (must be attached).


Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties’ responsibilities and obligations provided under the Contract.

**IN WITNESS WHEREOF**, the County and the Engineer have executed this Supplemental Work Authorization, to be effective as of the date of the last party's execution below.

**ENGINEER:**  
**Half Associates, Inc**

**COUNTY:**  
**Williamson County, Texas**

By:   
Signature

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

Jonathan Bean  
Printed Name

\_\_\_\_\_  
Printed Name

Vice President  
Title

\_\_\_\_\_  
Title

9/30/2025  
Date

\_\_\_\_\_  
Date

**LIST OF ATTACHMENTS**

Attachment B – Services to be Provided by the Engineer

Attachment C - Work Schedule

Attachment D – Fee Schedule

**APPROVED**  
*By Christen Eschberger at 1:12 pm, Sep 30, 2025*

**ATTACHMENT B**  
**SERVICES TO BE PROVIDED BY THE ENGINEER FOR**  
**EAST WILCO HIGHWAY SEGMENT 6 (SH 29 TO FM 971)**

**PROJECT DESCRIPTION**

Project Limits

The project limits are from 1000 feet north of SH 29 to north of FM 971 (Sta. 220+00), an approximate length of 4 miles. The project limits will be lengthened to terminate at CR 327 (Sta. 260+00) with a single lane roundabout. The revised project limits represent an increase of approximately 0.6 miles for a total length of 4.6 miles.

For PS&E#1 the project limits will be from 1000 feet north of SH 29 to 100 feet north of CR 127 for an approximate length of 1.65. This will shorten the project by 2.35 miles with the remaining part of the project from CR 127 to FM 971 to be executed in future PS&E projects.

Existing Facility

This new location road will tie into existing FM 971 at the north end of the project. For PS&E #1 the project will tie into existing CR 127 on both east and west leg. Existing FM 971 is a two-lane asphalt road with shoulders and CR 127 is a 20-foot wide, two-lane asphalt road with no shoulders. Georgetown Railroad is adjacent to the south FM 971 ROW. There is no existing ROW for the new location road.

Proposed Facility

The proposed facility is a new 2-lane road with 2-12' lanes and 10' shoulders that will serve as a future northbound frontage road of the East Wilco Highway corridor. The project includes two bridges spanning Pecan Branch, measuring 1040' and 220' in length respectively, a 2000' long bridge over FM 971, the adjacent Georgetown Railroad and a 375' bridge spanning the intermittent stream Big House Branch. On the south end, the new roadway will match proposed northbound E. Wilco Highway Segment 5 project at approximately Station 1445+00 north of SH 29. The new road will tie into existing CR 127. The proposed facility will have approximately 7 culverts, with 4 culverts on the frontage roads and 3 culverts on CR 127. The proposed ROW width is generally 350'.

Design Criteria

The project will be designed in accordance with the Williamson County Design Criteria Manual and relevant TxDOT Criteria. TxDOT criteria only applies to portion of the project within TxDOT ROW.

- PROJECT MANAGEMENT
  - COMMUNICATION:
    - Engineer shall designate one Licensed Professional Engineer (Texas) to be responsible for the project management, and all communications with the County and its representatives.
  - MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS (26 months assumed for PS&E#1):
    - Submit monthly progress status reports to the GEC. Progress reports will include: deliverable table, tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
    - Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.
  - QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PLAN:
    - Prepare a project specific QA/QC plan and submit to the County within thirty (30) days of notice to proceed.
    - For each deliverable submittal, provide evidence of their internal review and mark-up of that deliverable as preparation for submittal and in accordance with submitted project specific QA/QC plan.
    - Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.
  - PROJECT COORDINATION & ADMINISTRATION:
    - Prepare and maintain routine project record keeping including records of meetings and minutes.
    - Correspondence and coordination will be handled through & with the concurrence of the GEC.

- Manage Project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub-consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to Project-related inquiries.
- PROGRESS/COORDINATION MEETINGS (52 external meetings assumed for PS&E#1):
  - Attend a kickoff meeting and coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
  - Prepare agenda and sign-in sheets for external coordination/progress meetings.
  - Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting.
  - Conduct internal coordination meetings as required to advance the development of the project.
- PROJECT DESIGN SCHEDULE:
  - Baseline Schedule - Submit a CPM Baseline Schedule in calendar day (CD) format to the County for approval, using P6 Primavera or Microsoft Project in both pdf and native formats within 14 calendar days of the Work Authorization execution. This schedule should detail all work activities, including those by the County affecting the critical path. It shall outline the execution strategy, critical path, milestones, deliverables, and for each activity, its predecessors, successors, start and end dates, and float. Changes to schedule activities, durations, and dates require County consent, except for adjustments due to approved supplements or County-sanctioned project duration changes.
  - Progress Schedule – Submit an updated Progress Schedule with each significant milestone and/or deliverable identified by the County, detailing actual work completion percentages and incorporating all approved supplements. If the schedule deviates from the baseline, a recovery schedule approved by the County is required.

- PROJECT DOCUMENTS/FILES:
  - All contract documents, including native files, shall be turned over to the County at each milestone and at the completion of the project or as requested. Documents shall be posted to the County's project management database.
- DELIVERABLES:
  - Monthly Invoices and Progress Reports including Deliverable Table
  - Project Specific QA/QC Plan
  - Meeting Minutes, Sign-In Sheets, and Agendas
  - Project Schedule and Updates
  - Project Files
  - QA/QC Documentation with Deliverable
- PUBLIC INVOLVEMENT
  - PUBLIC INVOLVEMENT SUPPORT
    - Review the project's Public Involvement plan prepared by others.
    - Provide information or data for fact sheets and FAQs.
    - Provide exhibits for website and other project information sites (up to 1 exhibit assumed).
  - PROPERTY OWNER MEETING SUPPORT
 

***As this is a Road Bond Project, public involvement activities will be conducted through the County's existing public involvement contract with Rifeline. The engineer will provide support for the Public Involvement plans for the following activities:***

    - Prepare materials and provide support and exhibits for meetings with Individual Property Owners (up to 5 meetings assumed).
    - Provide property owner exhibits identifying parent tract (including area) and right-of-way acquisition (including parcel acquisition and remainder areas).
    - One person will attend meetings as requested (up to 5 meetings assumed).
  - STAKEHOLDER MEETINGS
    - Coordinate with affected state and local agencies and County's consultants.

- Prepare agendas, sign in sheets, meeting minutes, discussion topics, presentations, overall exhibits, and maps of the project limits for stakeholder coordination meetings. (up to 2 meetings assumed).
- Railroad Coordination and Exhibits
- DELIVERABLES:
  - Input on fact sheets, FAQs, and exhibits for website.
  - Property owner exhibits (native file, pdf, and hardcopies).
  - Stakeholder meeting agendas, exhibits, and meeting minutes.
- UTILITY COORDINATION SUPPORT

*As this is a Road Bond Project, direct coordination with utilities will be conducted through the County's existing utility coordination contract with Cobb Fendley and Associates. The Engineer will provide support as described below:*

- INCORPORATE UTILITY INFORMATION INTO ENGINEERING DRAWINGS
  - Incorporate utility information provided by others into design files.
  - Add utility notes to plans and exhibits as necessary.
  - Consider/incorporate utility work into traffic control phasing plans as necessary.
- UTILITY MEETINGS
  - Meet with utility coordinator and review utility impacts and potential relocations to identify appropriate approach to reducing/mitigating impacts **up to 4 meetings**.
  - Attend meetings with utilities as requested **up to 5 meetings**.
- DELIVERABLES:
  - Utility information incorporated into plans and design files.
  - Reviews of utility relocation plans.

- RIGHT OF WAY (ROW) AND MAPPING
  - PARCEL ACQUISITION DOCUMENTS (0 parcel documents assumed, 0 staking assumed, 2 exhibits assumed):
    - Prepare draft parcel sketches and field notes documents for right of way parcel and easement acquisition. Note any improvements requiring removal/relocation.
    - Provide property owner exhibits identifying Parent tract (including area), Right-of-way acquisition (including parcel acquisition and remainder areas), and proposed improvements adjacent to the property as needed.
  - DELIVERABLES:
    - Property owner exhibits (drawing file, pdf, and hardcopies)
- CONDEMNATION SUPPORT
  - CONDEMNATION HEARING EXHIBITS
    - Prepare preliminary and final condemnation hearing exhibits for 0 ROW Parcels.
    - Exhibits (each exhibit should include high-resolution aerial imagery) including the following information:
      - A vicinity map with an overall project layout and limits (beginning and end)
      - Existing and proposed typical road sections.
      - Parent tract (including area)
      - Right-of-way acquisition (including parcel acquisition and remainder areas),
      - Proposed improvements adjacent to the property.
  - CONDEMNATION HEARINGS
    - Engineer will attend meetings with the attorney to prepare for the hearings.

- Engineer will attend up to 4 condemnation hearings in-person and testify as an expert witness on the Project to discuss matters related to drainage, grading, environmental compliance, basic hydrologic, hydraulic and geotechnical information.
- DELIVERABLES
  - Preliminary and Final Condemnation Hearing Exhibits in pdf format.
- SURVEYING
  - RIGHT OF ENTRY (13 letters assumed):
    - Review existing ROE entry letters obtained as part of the on-call survey underway for the Corridor E2 / E3 / E4. Issue additional ROE requests if needed to complete field exploration.
    - Upon receiving approval from GEC, Prepare and mail right of entry letters per the County's standard for the project team including geotechnical and environmental. Send a second follow up letter to non-responsive property owners.
  - FIELD SURVEYING:
    - Prepare Control Point Sheet showing alignment, property lines, roads in relation to control points, including (n,e,z,desc) of control points.
    - Survey the corridor area at approximately 50-foot intervals and to include 250 feet on either side of the proposed roadway centerline (500 feet wide total) as necessary to produce one-foot interval contours. Information collected will typically include as follows: visible improvements and visible utilities including driveways, water wells, storage tanks, drainage structures (size, material, flowline elevations), edge of pavement/shoulder, physical centerline, roadway striping, guardrail, fences, signs, mailboxes, top and bottom of drainage ditches, sidewalk, and trees 8" inch diameter and greater.
    - Establish horizontal and vertical control (primary and secondary control) and set temporary benchmarks as needed. The survey control points shall be set in locations that will likely be undisturbed by construction or County maintenance. Control points will be leveled.

- Survey hydraulic cross sections of seven (7) creeks along proposed roadway plus one (1) additional creek along the additional project length for a total of eight (8) creeks with a total of thirty-two (32) cross sections in to be used in HEC-RAS software.
- Survey Georgetown Railroad right-of-way. Information will include tops/toes of ballast, top of rail elevations, drainage structures (size, material, flowline elevations, signs, and any railroad signaling).
- Survey three (3) intersecting road plus one (1) additional intersecting road for a total of four (4) rights-of-way 200 feet outside of the survey corridor area. Information collected will typically include as follows: visible improvements and visible utilities including drainage structures (size, material, flowline elevations), edge of pavement/shoulder, physical centerline, roadway striping, guardrail, fences, signs, mailboxes, top and bottom of drainage ditches, sidewalk, and hardwood trees 8-inch diameter and greater.
- Plot borehole location provided by geotechnical engineer. No field survey of boreholes are part of this task. DELIVERABLES:
  - Right of Entry Letters, Follow Up Letters, and Executed Right of Entry Documents.
  - Mapping in 2-D and 3-D MicroStation Files (Grid or Datum)
  - PDF of each Surveyor Project Notebook
  - DTM of Proposed Corridor
  - Survey Control Sheets
- DRAINAGE STUDY
  - HYDROLOGIC/HYDRAULIC MODELING (3 major channel crossings, 4 cross culverts assumed):
    - Prepare hydrologic and hydraulic models or modify existing models (FEMA, drainage districts, river authorities, cities, etc.) if available, to define the drainage infrastructure required for the project. Detail the methodologies employed and recommendations. The analysis will include: preparation of a preliminary design of the right of way drainage system, cross drainage structures, major channel crossings to reflect the existing and proposed conditions, recommended minimum pavement elevations based on cross

drainage flood elevations, right of way requirements, identify potential needs for FEMA Coordination. HEC-RAS shall be utilized for all stream modeling. HY-8 will be utilized for all culverts. Atlas 14 impacts will be reviewed and incorporated. The analysis will also include a **bridge spanning the intermittent stream Big House Branch.**

- Develop existing channel cross sections based on data collection. Additional existing channel cross sections to be developed for **bridge spanning the intermittent stream Big House Branch.**
- Exhibits and analysis will be prepared in the GIS environment to the extent practical.
- Provide preliminary and final Drainage Report.
- FEMA COORDINATION:
  - Coordinate with Local Floodplain Administrator as necessary throughout the project.
  - Prepare and submit Conditional Letter of Map Revision (CLOMR) (1 submittal package for project assumed).
    - Efforts and documentation for Endangered Species Act compliance are not included in this scope of services.
  - Prepare and submit Letter of Map Revision (LOMR). (1 submittal package for project assumed)
  - Pay Application Fee(s). (1 online submittal application fee each for CLOMR and LOMR)
- IMPACT AND MITIGATION ANALYSIS:
  - Prepare an impact analysis to determine increases in peak flow rates for the 100-year storm including: existing and proposed peak flow rates, mitigation analysis, conceptual and design detention basin layouts, design of control structures, routing of storm hydrographs through basins, calculate the volume of fill to be placed in the 100-year floodplain, and recommend locations for compensatory storage. Additional impact analysis will be required for **bridge spanning the intermittent stream Big House Branch.**

- SCOUR ANALYSIS (3 crossings assumed plus 1 additional crossing for 4 total):
  - Prepare a scour analysis for stream crossing(s) based on the design, results of boring data, and HEC-RAS hydraulic modeling of proposed bridge crossing per *Evaluating Scour at Bridges (HEC 18)*. Scour analysis to also include an additional proposed bridge crossing the intermittent stream to **Big House Branch**.
- DELIVERABLES:
  - Preliminary & Final Drainage Report.
  - Preliminary & Final CLOMR.
  - Preliminary & Final LOMR.
  - Draft & Final Scour Analysis.
- ENVIRONMENTAL SERVICES
  - COUNTY DUE DILIGENCE:
    - The Environmental Services will include studies and documentation as described below in items b – h, per the Williamson County Environmental Protocol, for the various regulating authorities, including the Texas Historical Commission (THC), U.S. Army Corp of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), Williamson County Conservation Foundation (WCCF), and TCEQ. The intention of the Environmental Services is to attain necessary clearance letters and approvals in order to proceed with the proposed project.
  - TXDOT ENVIRONMENTAL CLEARANCE:
    - Coordinate with GEC and TxDOT District staff to access and update the TxDOT Environmental Compliance Oversight System (ECOS). Documentation needed for TxDOT clearance is anticipated to be required for the project segments that would connect to on-system roadways (i.e., at FM 971 and at SH 29), which would require a Local On-system Agreement (LOSA).
    - Prepare environmental documentation utilizing the most current guidance located in TxDOT's online Environmental Compliance Toolkits, which will include the following technical analyses and reports:

1. Species Analysis Documentation
2. Archeological Background Study
3. Community Impacts Assessment
4. Surface Water Analysis and Section 404/10 Impacts Table
5. Hazardous Materials Initial Site Assessment
6. Historic Resources Project Coordination Request (PCR)
7. Traffic Noise Analysis
8. It is assumed that a Section 4(f) evaluation will not be required for the project.

- Provide support to conduct one Public Meeting as described under Public Involvement. This includes assisting Williamson County and TxDOT if required in preparing discussions and exhibits of the purpose and need, existing and proposed design, and affected environment and environmental consequences including: historical and archeological, wildlife, vegetation, and endangered species, ROW, displacements, land use analysis, socioeconomic and environmental justice impacts, jurisdictional waters, water quality, wetlands, permits, floodplains, parkland, hazardous materials, aesthetics, construction impacts, air and noise, secondary and cumulative impacts, and items of special nature and conclusions. Provide staff to attend the public meeting and assist the County in preparing responses to comments. It is assumed the County will be responsible for securing a suitable venue for the public meeting, developing a mailing list of property owners, stakeholders and elected officials, preparing and mailing notices, and publishing notices in local newspapers.
- Coordinate and correspond with the local county historic chairperson, Texas Historical Commission, Texas Parks and Wildlife Department, and the U.S. Fish & Wildlife Service.
- DATA COLLECTION & FIELD RECONNAISSANCE:
  - Obtain and update periodically publicly available information including but not limited to: locations of public buildings (schools, churches, parks), aerial

photography, National Wetland Inventory maps, County Soil Survey maps, TCEQ & EPA Hazardous Materials Database information, FEMA floodplain information, vegetation information, environmental information from the appropriate local, state, or federal agencies, including for state and federally-listed species, Edwards Aquifer information.

- Conduct a regulatory records review to identify listed hazardous waste generators, treatment, storage and disposal facilities; solid waste landfills, unauthorized sites; documented spills; oil and gas exploration and production sites; and underground storage tank sites within the proposed site location. The review will also identify other environmental risks along the project corridor.
- Conduct field reconnaissance to visually inspect the project site for additional risks and field verify environmental risks identified by the regulatory records review.
- HAZARDOUS MATERIALS ASSESSMENT:
  - Complete a Hazardous Materials assessment based on the data collection and field reconnaissance conducted and identify potential hazardous material sites that may be impacted by the proposed project. It is assumed the Hazardous Materials ISA prepared for TxDOT environmental review will be sufficient. A Phase I or Phase II Environmental Site Assessment in accordance with ASTM standards is not included in this scope of services.
- SECTION 404 CLEAN WATER ACT COMPLIANCE:
  - Conduct a site visit that will determine if water resources are present. If no water resources are identified in the project area, document these findings in the water resources section of the due diligence report.
  - If water resources are present, delineate wetland boundaries and ordinary high-water marks of jurisdictional waters within the project ROW. Prepare a Waters of the U.S. Delineation Report identifying: specific impacts of the project on the Waters of the U.S., measures to minimize the impacts, and applicable Section 404 permitting options in accordance with current permits and conditions based on data collection and field reconnaissance. It is anticipated that this project will be covered under a Nationwide Permit (NWP 14) and may require a pre-construction notification (PCN).

If it is determined, after the Waters of the U.S. Delineation Report and evaluation of impacts, that a PCN is required; a NWP with PCN will be prepared for submittal to the U.S. Army Corps of Engineers Fort Worth District for review and issuance of a permit. One PCN application is included in this scope of services.

- USACE Approved Jurisdictional Determination (AJD)
  - a. Based on observations made during the onsite delineation of aquatic resources and the results of the streamflow duration assessment, it is Halff's professional opinion that ephemeral flow is present within this feature greater than 50% of the assessment reach. Under current U.S. Army Corps of Engineers (USACE) guidance and Clean Water Act (Section 404) regulations, this feature would not typically be considered to be a relatively permanent water or jurisdictional waters of the U.S. (WOTUS).
  - b. In order to exclude Big House Branch from USACE jurisdiction as regulated by WOTUS, Halff will prepare and submit an Approved Jurisdictional Determination (AJD) request to the USACE Fort Worth District through their online Regulatory Request System. Halff will conduct up to 2 site visits to collect additional field observations (if needed) and coordinate with USACE to the extent necessary to obtain the AJD.
  - c. Exclusions
    - i. Right of entry coordination. It is assumed that the Client will provide right of entry to the project area at notice to proceed.\
    - ii. Preparation a USACE Section 404 Nationwide Permit Pre-Construction Notification Application, Individual Permit Application, or a mitigation plan.
    - iii. Threatened and endangered species habitat assessments, presence/absence surveys, or formal/informal coordination with Texas Parks and Wildlife Department or USFWS (not an anticipated requirement).
- ENDANGERED SPECIES ACT COMPLIANCE:

- Omitted
- Provided by WilCo
- HISTORICAL SITE COMPLIANCE:
  - Prepare a historic building survey that will follow the Secretary of the Interior's Standards and guidelines for Archeology and Historic Preservation and document historic buildings and structures within the Area of Potential Effect based on data collection and field reconnaissance.
  - This scope is removed from this contract. Provided by Wilco on separate environmental contract with others.
- TEXAS ANTIQUITIES CODE (TAC) COMPLIANCE:
  - Prepare a Project Initiation Letter, Texas Antiquities Permit Application, and Associated Scope of Work based on data collection and field reconnaissance.
  - Conduct a pedestrian survey and report to determine the nature, extent, and potential significance of cultural resources located within the Area of Potential Effect in accordance with full report guidelines as outlined by the Texas Historical Commission's Rules of Practice and Procedures.
  - Coordinate with Texas Historical Commission including submittals to Texas Historical Commission and project records to the appropriate curation facility per Texas Historical Commission requirements.
- DELIVERABLES:
  - Draft & Final County Environmental Due Diligence Report
    - The County will provide Consultant with Endangered Species Act compliance documentation/information for Consultant to incorporate into the report.
  - Draft & Final Regulatory Records Review
  - Draft & Final Hazardous Materials Assessment Report (assume a Hazardous Materials ISA in TxDOT format will suffice)

- Draft & Final Waters of the U.S. Delineation Report
- Draft & Final Historic Building Survey
  - The County will provide Consultant with Historic Building Survey compliance documentation/information for Consultant to incorporate into the report.
- Draft & Final Texas Antiquities Permit Application, Associated Scope of Work and Survey Report
- Draft & Final NWP with PCN
- TxDOT Environmental Clearance Documentation (Draft and Final)
  - Project Coordination Request, Research Design, and Survey Report for Historic Resources
  - Archeological Background Study, Antiquities Permit Application and Scope of Work, and Survey Report
  - TxDOT Species Analysis Spreadsheet and Form, TPWD BMPs Form
  - Surface Water Analysis, Section 404 Impacts Table, Waters of the U.S. Delineation Report
  - Hazardous Materials Initial Site Assessment
  - Community Impact Analysis (if required)
  - Traffic Noise Analysis (if required)
- Provide Final Acceptance Correspondence of Approval of Permits
- GEOTECHNICAL SERVICES
  - BORINGS:
    - The specified rate boring fee was inadvertently omitted from the original Work Authorization. These boring rates are being added to the Supplemental Work

Authorization and do not require an increase based on the original project limits.

- The maximum spacing and minimum depth of borings for retaining walls, bridges, slopes and embankments per the latest TxDOT Geotechnical Manual. Minimum depth for retaining wall borings shall be to a depth of at least where stress increase due to estimated foundation load is less than ten percent of the existing effective overburden stress at that depth and between one and two times the wall height as well as penetrate soft highly compressible soils. Borings are to be performed for each significant culvert to a depth of 10 feet below bottom of foundation. Groundwater elevations shall be taken 15 minutes after initial encounter with groundwater. Additional groundwater elevations shall be taken where clay soils are encountered to obtain a static water level. Field testing shall consist of either the Texas Cone Penetrometer (TCP) or the Standard Penetration Test (SPT) at a minimum of 5-foot intervals. In between the TCP/SPT interval obtain Shelby Tube samples and bag samples appropriate for laboratory testing. Pavement boring spacing shall be performed at intervals per the TxDOT Pavement Design Manual and should be to a depth of 15 feet. Dynamic Cone Penetrations (DCP) shall be performed to a maximum depth of 24 inches below ground surface at the pavement boring locations. Additional borings are to be acquired for the increased roadway length including bores for a new bridge and retaining walls.
- The Engineer shall be responsible for Soil Core Hole Drilling required for bridges, retaining walls, embankment, culvert, and pavement borings. The Engineer shall follow the procedures in the TxDOT Geotechnical Manual and will contact the appropriate utility location services to have underground utilities located prior to drilling in an area.
- The soil borings will be properly backfilled with bentonite chips and a single lift of cold patch asphalt where applicable. The soil samples will be obtained using Shelby tubes and/or split-spoon samplers. Field-testing of soil samples will include pocket penetrometer in the cohesive soils and Standard Penetration Test (SPT) in the cohesionless soils. Texas Cone Penetrations will be performed in the bridge, retaining wall, and culvert borings at five-foot intervals.
- The Geotechnical Engineer shall obtain a copy of the plans to be used in authoring the Geotechnical and Pavement Report. The purpose is to provide accurate plan information in these reports.

- **GEOTECHNICAL REPORTS:**
  - Perform appropriate laboratory tests on soil samples recovered from the borings. Laboratory testing will include but not limited to: moisture content, liquid limit, plastic limit, unconfined compression, Texas Triaxial, resilient modulus determined from DCP testing, free swell, particle size analysis tests, visual classification, dry density, sulfate content tests, and lime series analyses. Laboratory testing shall also include particle size analysis tests for D50 determinations for the evaluation of scour at water crossings. Appropriate laboratory testing to also include the roadway extension to CR 327 and for the roadway realignment shift.
  - Provide a Geotechnical Investigation for the project evaluated by a professional geotechnical engineer Licensed in the State of Texas. The following items will be included in the geotechnical report: soil boring locations, boring logs (TxDOT Wincore output graphs/format), and plan of borings, subsurface exploration procedures, encountered subsurface conditions, field and laboratory test results, description of surface and subsurface conditions, groundwater conditions/readings, analysis and recommendations for fill induced settlement and slope stability of the earthen embankments; and culvert bedding, analysis and recommendations for wingwalls, headwalls, and retaining walls, general earthwork recommendations, wall backfill limits, Swell potential evaluations, Pavement thickness design alternatives with subgrade stabilization, PVR calculations.
  - Provide geotechnical analysis needed for pavement design, foundation design, and slope stability, as required. For retaining walls, Engineer will provide calculations including global stability, sliding, bearing capacity, and overturning and recommendations for minimum footing depth. Where retaining walls will be inundated due to water, a drawdown analysis is required. In addition, retaining wall backfill type shall be specified. A sketch is required showing the backfill type and limits. Show the limits of the foundation material, aggregate backfill material, and retained fill. Provide the information to include in an RW(MSE)DD plan sheet. For bridge foundation design, the capacity curves shall be adjusted for the upper moisture change zone (5 to 10 feet) and scour. Geotechnical analysis to also include the additional pavement and retaining walls for extending roadway limits to CR 327 and realignment shift at FM 971/GTownRR.

- The pavement design will include consideration of traffic loads to be estimated by the Engineer. Pavement design shall follow the latest Williamson County Design Manual. The traffic data required includes current and projected traffic counts and truck percentages. The Engineer will prepare four (4) flexible pavement design alternatives and one (1) rigid pavement design alternative. Flexible pavement design alternatives shall include: subgrade stabilization utilizing lime and flexible base layer (if lime is not recommended, an explanation shall be provided for approval by the County Engineer); full depth asphalt section; driveway section; temporary full depth asphalt pavement section. Rigid design alternative shall include flexible base, HMAC Bond Breaker, and continuous reinforced concrete pavement. Geogrid reinforcement will also be considered in these designs. Identify areas of possible sulfates in subgrade. Pavement thickness options are to use the latest version of **TxDOT FPS-21**.
- DELIVERABLES:
  - Draft & Final Pavement Design Report
  - Draft & Final Bridge Design Report
  - Draft & Final Retaining Wall Report
- PLAN PREPARATION
  - Plans shall be prepared per **Williamson County and TxDOT** criteria including applicable submittal requirements per PS&E Development Plan Submittal Checklist including: cost estimate, checklists, hardcopies, CAD files, comment responses, design waivers/exceptions, general notes, quantities, updated design schedule, construction time determination.
  - DESIGN CRITERIA & CONCEPTUAL LAYOUT (Pre-30% Submittal):
    - Review design criteria utilized for the existing approved schematic.
    - Submit an updated Design Summary Form (DSF) **and Design Summary Report (DSR)** and note any recommend changes to the previously approved design criteria.

- Prepare a conceptual layout of the Project based on the existing approved schematic showing the proposed project limits, typical sections, ROW, edge of pavement, sidewalk/SUP, bridge limits, existing utilities, and preliminary drainage (pipe, ditch, & pond locations).
- ROADWAY:
  - **Refine** horizontal and vertical alignment of the roadway and cross streets, existing and proposed typical sections, cross sections created at appropriate increments and at cross drainage structures.
  - Revise to include the following modifications:
    1. Design horizontal and vertical alignment to for the added roadway length up to CR 327 for an approximate 0.6 miles, including a single lane roundabout design.
    2. Redesign horizontal and vertical alignment for an alignment shift at FM 971/GtownRR crossing, approximate length of 1.2 miles.
    3. Update Corridor E4 Schematic to incorporate the modified horizontal and vertical geometry for the southbound frontage roadway shift due to gas line conflict, main lane alignment shift over GtownRR/FM971 and new entrance and exit ramp configurations, approximate 1.1 and 1.2 miles respectfully.
  - Prepare project layout sheets that identify the project area and limits of work.
  - Prepare Survey Data Sheets that clearly indicate benchmark locations and associated control information.
  - Design and detail bridge including layout, beam layout, abutment and span details, and standards per TxDOT's Bridge Project Development Manual, Load and Resistance Factor Design (LRFD) Bridge Design Manual, and Bridge Detailing Manual Bridge Design Manual. Custom bridge details **are not** anticipated, however may be required in special locations circumstances (RR crossing, SUP rails, scour protection, etc.). **Bridges will be designed to accommodate by the interim two-lane configuration as well as the ultimate 3 lane configuration and will include a shared us path.** The proposed facility

**will include 3 bridges with 1 additional bridge for the increased length for a total of 4:**

- Bridge No. 0 – Future NBFR over Big House Branch: 57 ft wide x 360 ft long bridge capable of carrying three 12 ft (ultimate) lanes and barrier protected shared use path. Bridge is comprised of 3 span PCG superstructure, cast-in-place concrete abutments and bents founded on concentrically placed concrete drilled shafts.
- Bridge No. 1 - Future NBFR over Pecan Branch Stream: 57 ft wide x 1010 ft long bridge capable of carrying three 12 ft (ultimate) lanes and barrier protected shared use path. Bridge is comprised of 8 span PCG superstructure, cast-in-place concrete abutments and bents founded on concentrically placed concrete drilled shafts. The bridge design will be modified to include 2 additional bents. Additionally, the beam type will be modified to a TX46 to increase freeboard. The revised bridge will be 57 ft wide x 1040 ft long.
- Bridge No. 2 - Future NBFR over Pecan Branch: 57 ft wide x 633 ft long bridge capable of carrying three 12 ft (ultimate) lanes and barrier protected shared use path. Bridge is comprised of 5 span PCG superstructure, cast-in-place concrete abutments and bents founded on concentrically placed concrete drilled shafts. The bridge design will be modified to reduce the bridge to a 2 span PCG and will be 57' wide x 240' long.
- Bridge No. 3 - Future NBML over Georgetown Railroad and FM 971: 46 ft wide x 2400 ft long bridge capable of carrying two 12 ft (ultimate) lanes, two 10 ft shoulders. Bridge is comprised of 16 span PCG superstructure, cast-in-place concrete abutments and bents founded on concentrically placed concrete drilled shafts. It is anticipated that a railroad exhibit will be required at this location.
- The bridge design is being revised for add 6 additional bents and will now be on a horizontal curve. Additionally, the full bridge width will be design to accommodate the future Auxiliary Lane and future SUP to eliminate the requirement for future GRRR coordination. The bridge design will be modified to a 22 span bridge and will be 71' wide x 2400' long.

- DRAINAGE:
  - Prepare hydraulic calculations for the design of drainage structures and detention structures on the project and inclusion in the plans. Hydraulic calculations to include added drainage structure as part of extending the project limits to CR327 and the modified drainage structure associated with alignment shift at GtownRR/ FM 971.
  - Develop drainage area maps delineating drainage area boundaries based on USGS topographic maps, local contour maps, and/or field survey data. Include additional drainage areas for the areas associated with extending the project limits to CR 327.
  - Design and detail storm sewer system, drainage outfalls, cross drainage structures, culverts, channels, roadside ditches, minimum side slopes, and erosion and sedimentation control. Design to also include cross drainage structures, channels and roadside ditches for extending the project limits to CR 327 and for the alignment shift at GtownRR/ FM 971.
  - Design and detail on-site stormwater detention measures or provide documentation along with supporting calculations justifying that the project is exempt from the on-site detention requirements stated in the Williamson County Design Criteria Manual.
- SIGNING, MARKINGS, ILLUMINATION & SIGNALIZATION:
  - Prepare signing and marking layout per current version of Texas Manual of Uniform Traffic Control Devices (TMUTCD). Detail all non-standard signs or marking details as required for the project. Prepare additional signing and marking layouts to include the added length for extending project limits to CR 327 and for the single lane roundabout.
  - Meet with TxDOT/County staff to discuss signal design requirements. The mast arms and traffic signals will be designed based on TxDOT Standards.
  - Acquire roadway files for the intersections and shall include, at minimum, proposed curb lines, pavement markings, pedestrian ramps, all aboveground and underground utilities, and right-of-way around the study intersection.
  - Design will include pedestrian signalization and ADA ramps for the entire intersection.

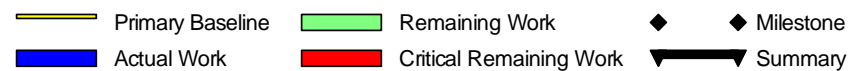
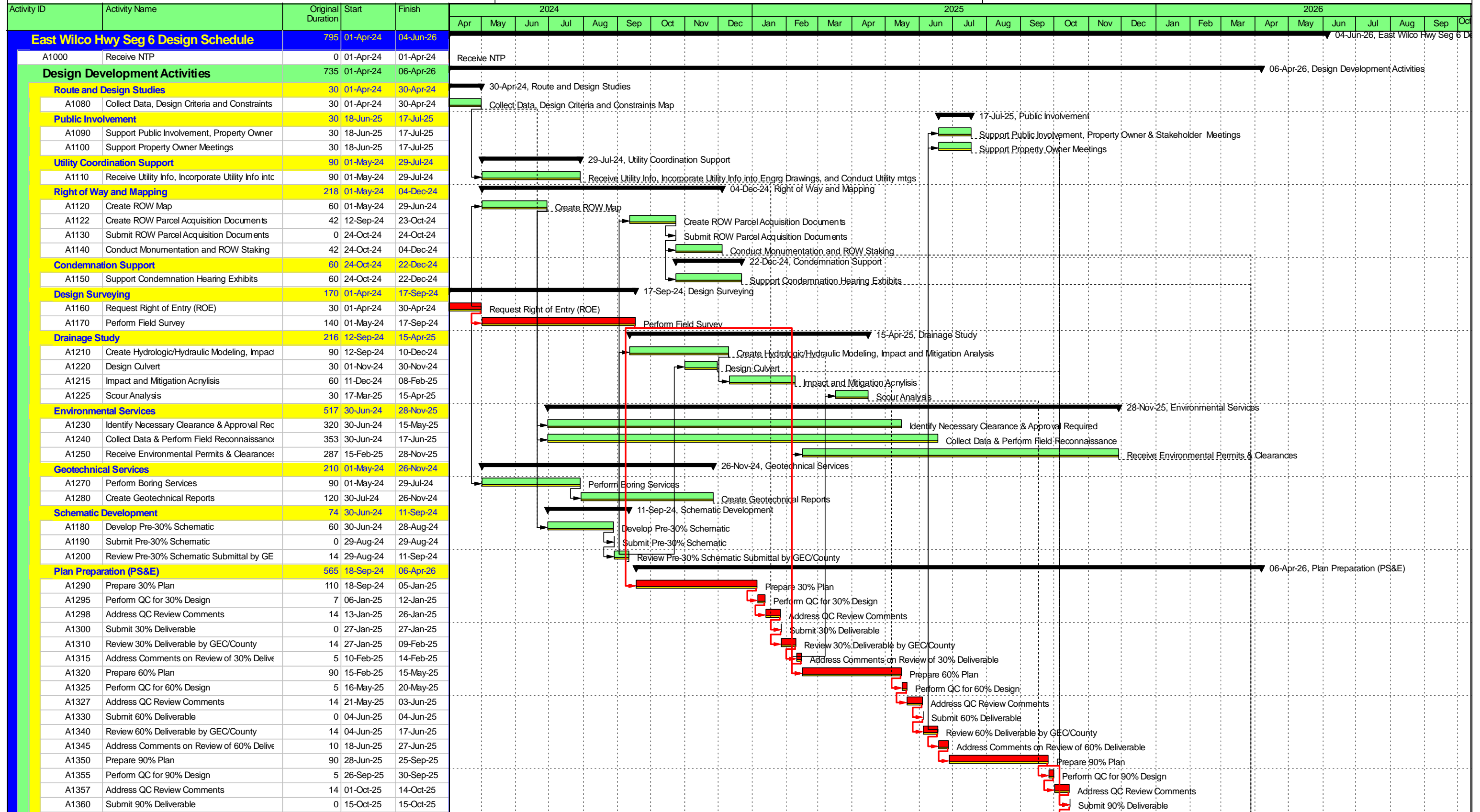
- Provide PDF and CAD files of final plans and one set of original signed and sealed plans.
- Prepare a quantities summary, bid item spreadsheet, and estimate of construction cost for the traffic signal design.
- A traffic signal design has been assumed at the following locations:
  1. Proposed Corridor E and SH 29
  2. Proposed Corridor E and FM 971
- Illumination Engineering Services
  - All illumination engineering analysis will be based on TxDOT illumination standards and Williamson County Design Manual. The following is a list of basic illumination scope of services.
- Illumination Photometric Analysis.
  - Perform photometric analysis of under bridge illumination. The analysis will be performed for four under bridge locations.
  - Perform photometric analysis for one intersection between Hwy 29 and FM 121.
  - Perform photometric analysis for intersection at FM 124.
  - Perform photometric analysis for intersection at FM 127.
  - Perform photometric analysis for intersection at FM 971.
  - Perform photometric analysis for one end of road turnaround.
- Illumination PS&E
  - Develop 60%, 90% and 100% lighting plan sheets and specifications for illumination design. Plan sheets will be developed as per TxDOT standards.
  - Sheets are to incorporate conduit and cabling schedules.
  - Sheets will incorporate circuiting requirements such as overcurrent protection, grounding, and current carrying conductor requirements.

- Plan sheets are to incorporate TxDOT electrical service entrance details.
- Electrical Engineering Services
  - Electrical Utility Coordination
    - Electrical utility coordination for utility service extension to new illumination luminaires scope is included. In this task, engineer will frequently communicate with the electrical utility so that utility service drop requirements are adequately agreed upon. The final electrical service drop location will be identified on plans as per electrical utilities agreement.
- Power System Design:
  - Develop power system design with electrical service rack, circuiting, and load analysis for two signal controller cabinet.
  - Develop illumination circuiting voltage drop analysis.
- TRAFFIC CONTROL:
  - Prepare traffic control plan sequence of construction narrative, phase layout sheets, and detour layout as needed to direct traffic around construction activities per Texas Manual of Uniform Traffic Control Devices (TMUTCD). Prepare traffic control plans for the added roadway length that terminates at CR 327. Prepare phasing layout for roundabout tie in at CR 327
- WATER QUALITY:
  - Prepare water quality temporary and permanent Best Management Practices (BMPs) to comply with Texas Commission on Environmental Quality (TCEQ) regulations.
  - Prepare Stormwater Pollution Prevention Plan (SWPPP) and EPIC Sheet.
- DELIVERABLES:
  - Pre-30% Submittal: DSF, Typical Sections, and Conceptual Layout
  - 30% PS&E Submittal: per 30% Plan Submittal Checklist
  - 60% PS&E Submittal: per 60% Plan Submittal Checklist

- 90% PS&E Submittal: per 90% Plan Submittal Checklist
- 100% PS&E Submittal; per 100%/Final Plan Submittal Checklist
- Final PS&E Submittal; see 100%/Final Plan Submittal Checklist
- Draft & Final Drainage Report and Drainage Models
- PERMITS
  - Pay Application Fee(s).
- BIDDING PHASE SERVICES
  - BIDDING PHASE SERVICES:
    - Prepare all applicable construction documents for bidding including final signed and sealed plans with any joint bid utility plans incorporated; final general notes, specification list, special specifications and signed & sealed cover for project construction manual. Final construction time determination which also includes any joint bid utilities.
    - Attend the pre-bid meeting. Respond to bidder's questions during the bid period. Prepare project addenda during bid period. Analyze contractor bids, prepare bid tabulation, and make recommendation for award to the apparent low bidder. Attend the pre-construction conference.
  - DELIVERABLES:
    - Signed and sealed final bid documents
    - Addenda as necessary
    - Bid analysis and recommendation for award
- EXCLUSIONS
  - Route and Design Studies
  - Schematic Design
  - Construction Phase Services
  - Noise Walls

Attachment C: Schedule  
East Wilco Hwy Segment 6

15-Sep-25





ATTACHMENT "D" FEE SCHEDULE

SUMMARY

East Wilco Hwy Seg. 6

Task	Description	Half Associates, Inc.				Raba Kistner, Inc.			BGE, Inc.			Aguirre & Fields, L.P.			Inland Geodetics				TOTALS
		WA #1 Total	SWA #1 Revision	SWA #1 Total	TOTAL	WA #1	SWA #1 Total	TOTAL	WA #1	SWA #1 Total	TOTAL	WA #1	SWA #1 Total	TOTAL	WA #1	SWA#1 Revision	SWA #1 Total	TOTAL	
Task 1	PROJECT MANAGEMENT	\$ 448,580.00	\$ (157,430.00)	\$ (157,430.00)	\$ 291,150.00	\$ 28,425.50	\$ (2,255.20)	\$ 26,170.30	\$ 44,555.00	\$ -	\$ 44,555.00	\$ 30,552.00	\$ (3,540.00)	\$ 27,012.00	\$ 32,325.00	\$ (2,725.00)	\$ (2,725.00)	\$ 29,600.00	\$ 418,487.30
Task 2	PUBLIC INVOLVEMENT	\$ 99,450.00	\$ (62,540.00)	\$ (62,540.00)	\$ 36,910.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,910.00
Task 3	UTILITY COORDINATION SUPPORT	\$ 69,965.00	\$ (39,685.00)	\$ (39,685.00)	\$ 30,280.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,280.00
Task 4	RIGHT OF WAY (ROW) AND MAPPING	\$ 4,400.00	\$ (2,750.00)	\$ (2,750.00)	\$ 1,650.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,900.00	\$ (8,460.00)	\$ (8,460.00)	\$ 12,440.00	\$ 14,090.00
Task 5	CONDEMNATION SUPPORT	\$ 35,440.00	\$ (21,940.00)	\$ (21,940.00)	\$ 13,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,120.00	\$ (6,405.00)	\$ (6,405.00)	\$ 3,715.00	\$ 17,215.00
Task 6	SURVEYING	\$ 38,070.00	\$ (16,920.00)	\$ (16,920.00)	\$ 21,150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 211,100.00	\$ (13,525.00)	\$ (13,525.00)	\$ 197,575.00	\$ 218,725.00
Task 7	DRAINAGE STUDY	\$ 323,260.00	\$ (80,535.00)	\$ (4,160.00)	\$ 319,100.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 319,100.00
Task 8	ENVIRONMENTAL SERVICES	\$ 578,990.00	\$ (191,280.00)	\$ (191,280.00)	\$ 387,710.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 387,710.00
Task 9	GEOTECHNICAL SERVICES	\$ -	\$ -	\$ -	\$ -	\$ 61,101.04	\$ 6,039.24	\$ 67,140.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,140.28
Task 10	PLAN PREPARATION	\$ 2,297,795.00	\$ (1,015,070.00)	\$ (810,825.00)	\$ 1,486,970.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 845,298.00	\$ 202,835.00	\$ 1,048,133.00	\$ -	\$ -	\$ -	\$ -	\$ 2,535,103.00
Task 11	PERMITS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 12	BIDDING PHASE SERVICES	\$ 52,520.00	\$ -	\$ -	\$ 52,520.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,552.00	\$ -	\$ 6,552.00	\$ -	\$ -	\$ -	\$ -	\$ 59,072.00
Direct Expenses		\$ 28,392.50	\$ -	\$ -	\$ 28,392.50	\$ 9,850.00	\$ 285,674.81	\$ 295,524.81	\$ -	\$ -	\$ -	\$ 135.00	\$ -	\$ 135.00	\$ 4,875.00	\$ -	\$ -	\$ 4,875.00	\$ 328,927.31
<b>SUB TOTALS</b>		<b>\$ 3,976,862.50</b>	<b>\$ (1,588,150.00)</b>	<b>\$ (1,307,530.00)</b>	<b>\$ 2,669,332.50</b>	<b>\$ 99,376.54</b>	<b>\$ 289,458.85</b>	<b>\$ 388,835.39</b>	<b>\$ 44,555.00</b>	<b>\$ -</b>	<b>\$ 44,555.00</b>	<b>\$ 882,537.00</b>	<b>\$ 199,295.00</b>	<b>\$ 1,081,832.00</b>	<b>\$ 279,320.00</b>	<b>\$ (31,115.00)</b>	<b>\$ (31,115.00)</b>	<b>\$ 248,205.00</b>	<b>\$ 4,432,759.89</b>
Percentage		75.3%			60.2%	1.9%		8.8%	0.8%		1.0%	16.7%		24.4%	5.3%			5.6%	100.0%
<b>TOTAL WORK</b>																			<b>\$ 4,432,759.89</b>

ATTACHMENT "D" FEE SCHEDULE

HALFF ASSOCIATES

East WilCo Highway Segment 6

TASK/DESCRIPTION	PRINCIPAL IN CHARGE	PROJECT MANAGER	SR TECHNICAL MANAGER	SR QC REVIEWER	SR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	BIT	SR GIS TECH	GIS TECH	SR CADD OPERATOR	CADD OPERATOR	SR STRUCTURAL ENGINEER	STRUCTURAL ENGINEER	SR DRAINAGE ENGINEER	SR TRAFFIC ENGINEER	SR ENV SCIENTIST	ENV SCIENTIST IV	ENV SCIENTIST III	ENV SCIENTIST II	ENV SCIENTIST I	SR PI SPECIALIST	PI SPECIALIST	CLERICAL / ADMIN	TOTAL MAN HOURS	SUB ID	TOTAL LABOR FOR TASK
<b>TASK 1 PROJECT MANAGEMENT</b>																											
A COMMUNICATION	15	35			35	35	35																		155		\$ 40,125
B PROGRESS REPORT/INVOICING (26 MONTHS)		24																						32	65		\$ 15,155
C QA/QC																											
PREPARE PLAN																									10		\$ 3,400
QC DELIVERABLES																									60		\$ 20,400
CONTINUOUS QC																									98		\$ 25,970
D PROJECT COORDINATION/ADMIN																											
PREPARE AND MAINTAIN RECORDKEEPING																											
CORRESPONDENCE AND COORDINATION WITH GEC																											
MANAGE ACTIVITIES																											
E PROGRESS/COORDINATION MEETINGS (52 EXTERNAL MEETINGS)		52				52																			156		\$ 38,480
KICKOFF MEETING		2			2	2	2	2					2		2	2									2		\$ 4,430
PREPARE AGENDA/SIGN-IN SHEETS (ALL EXTERNAL MEETINGS)		27				52																			79		\$ 20,100
PREPARE MEETING MINUTES		27				52																			27		\$ 32,250
INTERNAL COORDINATION MEETINGS		52			52	52	52	52																	52	52	\$ 74,360
F PROJECT SCHEDULE AND UPDATE		16																							16		\$ 5,440
G PROJECT DOCUMENT/FILES						32		32																	64		\$ 11,040
H DELIVERABLES																											
MONTHLY INVOICES AND PROGRESS PREPOTS																											
PROJECT SPECIFIC QA/QC PLAN																											
MEETING MINUTES, SIGN-IN SHEETS, AND AGENDAS																											
PROJECT SCHEDULE AND UPDATE																											
PROJECT FILES																											
QA/QC DOCUMENTATION																											
<b>SUBTOTAL HOURS/COSTS</b>	<b>15</b>	<b>235</b>		<b>70</b>	<b>187</b>	<b>277</b>	<b>89</b>	<b>138</b>					<b>2</b>		<b>2</b>	<b>2</b>	<b>9</b>							<b>32</b>	<b>1243</b>		<b>\$ 291,150.00</b>
<b>TASK 2 PUBLIC INVOLVEMENT</b>																											
A PUBLIC INVOLVEMENT SUPPORT																											
REVIEW PROJECT PUBLIC INVOLVEMENT PLAN PREPARED BY OTHERS	1																								10		\$ 2,125
PROVIDE INFORMATION OR DATA FOR FACT SHEETS/FAGS	1					3	2	8																	10		\$ 2,395
PROVIDE EXHIBITS FOR PROJECT INFORMATION SITE (1 ASSUMED)					1																				20		\$ 2,745
B PROPERTY OWNER MEETING SUPPORT																											
PREPARE MATERIALS FOR MEETINGS WITH INDIVIDUAL PROPERTY OWNERS (5 MEETINGS ASSUMED)					2	4	4	18																	25		\$ 3,715
PROVIDE PROPERTY OWNER EXHIBITS					2	4																			24		\$ 3,800
ATTEND MEETINGS (ONE PERSON MINIMUM FOR 5 MEETINGS)		2																							10		\$ 1,820
C STAKEHOLDER MEETINGS																											
COORDINATE WITH AFFECTED STATE AND LOCAL AGENCIES AND COUNTY'S CONSULTANTS		2																							7		\$ 1,485
PREPARE MEETING MATERIALS (2 MEETINGS ASSUMED)					1	2		3																	23		\$ 3,485
RAILROAD COORDINATION AND EXHIBITS		10				14		25																	49		\$ 9,715
D DELIVERABLES																											
INPUT ON FACT SHEETS, FAGS AND EXHIBITS FOR WEBSITE					1																				16		\$ 2,770
PROPERTY OWNER EXHIBITS (NATIVE FILE, PDF, AND HARDCOPY)																											
STAKEHOLDER MEETING AGENDAS, EXHIBITS, AND MEETING MINUTES																									16		\$ 2,265
<b>SUBTOTAL HOURS/COSTS</b>	<b>2</b>	<b>15</b>			<b>4</b>	<b>25</b>	<b>6</b>	<b>54</b>										<b>7</b>	<b>42</b>	<b>8</b>	<b>47</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>219</b>		<b>\$ 36,910.00</b>
<b>TASK 3 UTILITY COORDINATION SUPPORT</b>																											
A INCORPORATE UTILITY INFORMATION																											
INCORPORATE UTILITY INFORMATION INTO DESIGN FILES						8	18	18				18													62		\$ 9,240
ADD UTILITY NOTES AS NECESSARY						8	18	34																	60		\$ 9,150
CONSIDER/INCORPORATE UTILITY WORK IN TCP						8	18	34																	60		\$ 9,150
B UTILITY MEETINGS																											
MEET W/ UTILITY COORDINATOR (UP TO 4 MEETINGS)		2				2		2																	6		\$ 1,370
ATTEND MEETING WITH UTILITIES (UP TO 5 MEETINGS)		2				2		2																	6		\$ 1,370
C DELIVERABLES																											
UTILITY INFORMATION INCORPORATED INTO PLANS AND DESIGN FILES																											
REVIEW OF UTILITY RELOCATION PLANS																											
<b>SUBTOTAL HOURS/COSTS</b>		<b>4</b>				<b>28</b>	<b>54</b>	<b>90</b>				<b>18</b>													<b>194</b>		<b>\$ 30,280.00</b>
<b>TASK 4 RIGHT OF WAY (ROW) AND MAPPING</b>																											
A PARCEL ACQUISITION DOCUMENTS (3 EXHIBITS ASSUMED)																											
PREPARE ROW STRIP-MAP																											
PREPARE DRAFT PARCEL SKETCHES AND FIELD NOTES																											
PROVIDE PROPERTY OWNER EXHIBITS		3				3																			6		\$ 1,650
B DELIVERABLES																											
PROPERTY OWNER EXHIBITS (DRAWING FILE, PDF, AND HARDCOPIES)																											
<b>SUBTOTAL HOURS/COSTS</b>		<b>3</b>				<b>3</b>																			<b>6</b>		<b>\$ 1,650.00</b>
<b>Task 5 CONDEMNATION SUPPORT</b>																											
A CONDEMNATION HEARING EXHIBITS																											
PREPARE PRELIMINARY AND FINAL CONDEMNATION HEARING EXHIBITS (4 PARCELS)						8		30																	38		\$ 5,730
EXHIBITS						8		30																	38		\$ 5,730
B CONDEMNATION HEARINGS																											
ATTEND PREPARATION MEETING(S) WITH ATTORNEY					3																				3		\$ 1,020
ATTEND CONDEMNATION MEETINGS IN PERSON AND TESTIFY (UP TO 4 HEARINGS)</																											





**ATTACHMENT "D" FEE SCHEDULE**

**HALFF ASSOCIATES**

**East WilCo Highway Segment 6**

FEE SUMMARY																													
TASK 1 PROJECT MANAGEMENT	15	235		70	187	277	89	138						2		2	2	9		133	52			32	1243	\$	291,150.00		
TASK 2 PUBLIC INVOLVEMENT	2	15			4	25	6	54											7	42	8	47	1	2	6	219	\$	36,910.00	
TASK 3 UTILITY COORDINATION SUPPORT		4				28	54	90					18													5	\$	30,280.00	
TASK 4 RIGHT OF WAY (ROW) AND MAPPING		3				3		60																		82	\$	1,650.00	
TASK 5 CONDEMNATION SUPPORT		6				16		60																		82	\$	13,500.00	
TASK 6 SURVEYING		45																								90	\$	21,150.00	
TASK 7 DRAINAGE STUDY		4	37	28	142	337	435	675	78	51					32											45	\$	90	
TASK 8 ENVIRONMENTAL SERVICES																				74	648	901	1298			52	2973	\$	319,100.00
TASK 9 GEOTECHNICAL SERVICES																												\$	387,710.00
TASK 10 PLAN PREPARATION		164		134	449	425	1623	2665			3334	1169	47	44													10054	\$	1,486,970.00
TASK 11 PERMITS																												\$	-
TASK 12 BIDDING PHASE SERVICES		56				56	56	56																		40	264	\$	52,520.00
<b>TOTAL HOURS</b>	<b>17</b>	<b>532</b>	<b>37</b>	<b>232</b>	<b>782</b>	<b>1167</b>	<b>2263</b>	<b>3738</b>	<b>78</b>	<b>51</b>	<b>3352</b>	<b>1169</b>	<b>49</b>	<b>44</b>	<b>34</b>	<b>2</b>	<b>9</b>	<b>81</b>	<b>823</b>	<b>961</b>	<b>1345</b>	<b>1</b>	<b>2</b>	<b>175</b>	<b>16944</b>				
<b>CONTRACT RATES (\$)</b>	\$ 400.00	\$ 340.00	\$ 340.00	\$ 340.00	\$ 265.00	\$ 210.00	\$ 160.00	\$ 135.00	\$ 140.00	\$ 105.00	\$ 125.00	\$ 100.00	\$ 330.00	\$ 200.00	\$ 320.00	\$ 265.00	\$ 315.00	\$ 235.00	\$ 190.00	\$ 130.00	\$ 95.00	\$ 220.00	\$ 160.00	\$ 130.00					\$ 2,640,940.00
<b>TOTAL LABOR COSTS</b>	\$6,800	\$180,880	\$12,580	\$78,880	\$207,230	\$245,070	\$362,080	\$504,630	\$10,920	\$5,355	\$419,000	\$116,900	\$16,170	\$8,800	\$10,880	\$530	\$2,835	\$19,035	\$156,370	\$124,930	\$127,775	\$220	\$320	\$22,750				\$	2,640,940.00
<b>TOTAL BY CATEGORY</b>	0%	7%	0%	3%	8%	9%	14%	19%	0%	0%	16%	4%	1%	0%	0%	0%	0%	1%	6%	5%	5%	0%	0%	1%	100%			\$	2,640,940.00
<b>TOTAL LABOR = \$ 2,640,940.00</b>																													
<b>TOTAL ODE = \$ 28,392.50</b>																													
<b>TOTAL FEE = \$ 2,669,332.50</b>																													
<b>TOTAL FEE</b>																													
<b>DIRECT EXPENSE ITEMS</b>																													
Standard Postage	letter	1000	\$0.68	\$680.00																									
Certified Letter Return Receipt	each	50	\$10.00	\$500.00																									
MILEAGE	mile	1500	\$0.675	\$1,012.50	OR CURRENT IRS RATE																								
OVERNIGHT MAIL - LETTER SIZE	each		\$25.40		OR CURRENT POSTAL RATE																								
OVERNIGHT MAIL - OVERSIZED BOX	each		\$35.00																										
COURIER SERVICES	each	20	\$35.00	\$700.00																									
PHOTOCOPIES B/W (11" X 17")	each	500	\$0.20	\$100.00																									
PHOTOCOPIES B/W (8 1/2" X 11")	each	1000	\$0.10	\$100.00																									
PHOTOCOPIES COLOR (11" X 17")	each	200	\$1.25	\$250.00																									
PHOTOCOPIES COLOR (8 1/2" X 11")	each	400	\$0.75	\$300.00																									
DIGITAL ORTHO PLOTTING	sheet		\$1.75																										
PLOTS (B/W ON BOND)	per sq		\$0.60																										
PLOTS (COLOR ON BOND)	per sq	500	\$1.60	\$800.00																									
PLOTS (COLOR ON PHOTOGRAPHIC PAPER)	per sq		\$4.00																										
NOTEBOOKS	each		\$5.00																										
Environmental Field Supplies	project	1	\$150.00	\$150.00																									
ERIS Radius Report/Database Search	project	1	\$1,000.00	\$1,000.00																									
GIS Base Map	project	1	\$175.00	\$175.00																									
Backhoe and Operator	day	2	\$3,500.00	\$7,000.00																									
Records Curation	each	2	\$350.00	\$700.00																									
Materials Curation	each	1	\$425.00	\$425.00																									
CLOMR Application	each	1	\$6,500.00	\$6,500.00																									
LOMR Application	each	1	\$8,000.00	\$8,000.00																									
			<b>TOTAL</b>	<b>\$28,392.50</b>																									

**ATTACHMENT "D" FEE SCHEDULE**

**RABA KISTNER**

**East WiCo Highway Segment 6**

TASK/DESCRIPTION	PROJECT/ SUPPORT MANAGER \$204.10	SR QC MANAGER \$255.00	SR PROJECT ENGINEER \$233.58	PROJECT ENGINEER \$159.12	DESIGN ENGINEER \$182.03	EIT \$146.07	GEOTECH LOGGER \$119.02	SR GEOTECH TECH \$91.80	GEOTECH TECH \$77.22	GEOTECH LAB TECH \$82.74	GEOLOGIST \$154.02	SR GIS TECH \$110.16	CADD TECH \$104.81	CLERICAL / ADMIN \$71.40	TOTAL MAN- HOURS	SUB ID.	TOTAL LABOR FOR TASK
<b>TASK 1 PROJECT MANAGEMENT</b>																	
A COMMUNICATION																	\$ -
B PROGRESS REPORTS/INVOICING (26 MONTHS)	15													15	30		\$ 4,132.50
C QA/QC																	\$ -
PREPARE PLAN																	\$ -
QC DELIVERABLES		40													40		\$ 10,200.00
CONTINUOUS QC																	\$ -
D PROJECT COORDINATION/ADMIN																	\$ -
PREPARE AND MAINTAIN RECORDKEEPING																	\$ -
CORRESPONDENCE AND COORDINATION WITH GEC																	\$ -
MANAGE ACTIVITIES																	\$ -
E PROGRESS/COORDINATION MEETINGS (52 EXTERNAL MEETINGS)	58														58		\$ 11,837.80
KICKOFF MEETING																	\$ -
PREPARE AGENDA/SIGN-IN SHEETS (ALL EXTERNAL MEETINGS)																	\$ -
PREPARE MEETING MINUTES																	\$ -
INTERNAL COORDINATION MEETINGS																	\$ -
F PROJECT SCHEDULE AND UPDATE																	\$ -
G PROJECT DOCUMENT/FILES																	\$ -
H DELIVERABLES																	\$ -
MONTHLY INVOICES AND PROGRESS PREPOTS																	\$ -
PROJECT SPECIFIC QA/QC PLAN																	\$ -
MEETING MINUTES, SIGN-IN SHEETS, AND AGENDAS																	\$ -
PROJECT SCHEDULE AND UPDATE																	\$ -
PROJECT FILES																	\$ -
QA/QC DOCUMENTATION																	\$ -
<b>SUBTOTAL HOURS/COSTS</b>	<b>73</b>	<b>40</b>												<b>15</b>	<b>128</b>		<b>\$ 26,170.30</b>
<b>TASK 9 GEOTECHNICAL SERVICES</b>																	
GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS																	\$ -
PROJECT KICKOFF	1		4	1		1	1	1						1	10		\$ 1,725.83
FIELD COORDINATION (STAKE BORINGS AND UTILITY LOCATE)	1			1		1	19								22		\$ 2,770.67
FIELD COORDINATION (STAKE BORINGS AND UTILITY LOCATE) (New Bridge)				1		2	8								11		\$ 1,403.42
FIELD COORDINATION (STAKE BORINGS AND UTILITY LOCATE) (Realignment Shift)				1		2	8								11		\$ 1,403.42
FIELD EXPLORATION							16	122							138		\$ 13,103.92
FIELD EXPLORATION (New Bridge)							6	24							30		\$ 2,917.32
FIELD EXPLORATION (Realignment Shift)							6	24							30		\$ 2,917.32
LABORATORY ASSIGNMENT				1		3									4		\$ 597.33
LABORATORY ASSIGNMENT (New Bridge)				1		2									3		\$ 451.26
LABORATORY ASSIGNMENT (Realignment Shift)				1		2									3		\$ 451.26
SOIL BORING LOGS	1			1		5									7		\$ 1,093.57
LABORATORY ASSIGNMENT (New Bridge)				1		4									5		\$ 743.40
LABORATORY ASSIGNMENT (Realignment Shift)				1		2									3		\$ 451.26
SITE PLAN				1		3						4			8		\$ 1,037.97
SITE PLAN (New Bridge)						1						2			3		\$ 366.39
SITE PLAN (Realignment Shift)												2			2		\$ 220.32
PVR ANALYSES				2		5									7		\$ 1,048.59
PVR ANALYSES (New Bridge)				1		2									3		\$ 451.26
PVR ANALYSES (Realignment Shift)				1		1									2		\$ 305.19
DRILLED SHAFT CAPACITIES (WINCORE capacity charts and Lpile parameters)	1			3		7									11		\$ 1,703.95
DRILLED SHAFT CAPACITIES (WINCORE capacity charts and Lpile parameters) (New Bridge)	1			2		3									6		\$ 960.55
DRILLED SHAFT CAPACITIES (WINCORE capacity charts and Lpile parameters) (Realignment Shift)	2			2		2									6		\$ 1,018.58
RETAINING WALL STABILITY (external and global stability)	3			8		16									27		\$ 4,222.38
RETAINING WALL STABILITY (external and global stability) (New Bridge)	1			2		4									7		\$ 1,106.62
FLEXIBLE PAVEMENT DESIGN ANALYSES (3 OPTIONS)	1			4		8									13		\$ 2,009.14
FLEXIBLE PAVEMENT DESIGN ANALYSES (3 OPTIONS) (New Bridge)	1			1		2									4		\$ 655.36
RIGID PAVEMENT DESIGN ANALYSES (1 OPTION)	1			2		4									7		\$ 1,106.62
RIGID PAVEMENT DESIGN ANALYSES (1 OPTION) (New Bridge)	1			1		2									4		\$ 655.36
DRAFT PAVEMENT DESIGN REPORT PREPARATION	3		2	5		11								2	23		\$ 3,624.63
DRAFT PAVEMENT DESIGN REPORT PREPARATION (New Bridge)	1			2		4								1	8		\$ 1,178.02
DRAFT PAVEMENT DESIGN REPORT PREPARATION (Realignment Shift)														1	1		\$ 71.40
DRAFT GEOTECHNICAL REPORT PREPARATION (bridges, culverts, rws)	4		2	8		16								2	32		\$ 5,036.44
DRAFT GEOTECHNICAL REPORT PREPARATION (bridges, culverts, rws) (New Bridge)	1			2		4								1	8		\$ 1,178.02
DRAFT GEOTECHNICAL REPORT PREPARATION (bridges, culverts, rws) (Realignment Shift)	3			6		18									27		\$ 4,196.28
REPORT REVIEWS & FINALIZATIONS	2		4	4		5								1	16		\$ 2,780.75
DESIGN TEAM MEETINGS	4		1	4		2								1	12		\$ 2,050.00
REPORT REVIEWS & FINALIZATIONS (New Bridge)	-1			-1											-2		\$ (363.22)
INVOICE PROJECT CLOSE OUT	1													4	5		\$ 489.70



ATTACHMENT "D" FEE SCHEDULE

BGE

East WilCo Highway Segment 6

TASK / DESCRIPTION	SUPPORT MANAGER	QC MANAGER	SR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	GRADUATE ENGINEER	SR DESIGN TECH	DESIGN TECH	CADD TECH	SR STRUCTURAL ENGINEER	STRUCTURAL ENGINEER	SR GIS OPERATOR	GIS OPERATOR	ENV QA/QC MANAGER	ENV TASK LEADER	ENV SCIENTIST	SURVEY RPLS	2-PERSON SURVEY CREW	3-PERSON SURVEY CREW	CLERICAL / ADMIN	TOTAL MAN-HOURS	SUB ID.	TOTAL LABOR FOR TASK		
<b>TASK 1 PROJECT MANAGEMENT</b>																					0				
A COMMUNICATION																						0		\$ -	
B PROGRESS REPORTS/INVOICING (26 MONTHS)	15																				15	30		\$ 6,675	
C QA/QC																						0		\$ -	
PREPARE PLAN																						0		\$ -	
QC DELIVERABLES		120																				120		\$ 37,200	
CONTINUOUS QC																						0		\$ -	
D PROJECT COORDINATION/ADMIN																						0		\$ -	
PREPARE AND MAINTAIN RECORDKEEPING																						0		\$ -	
CORRESPONDENCE AND COORDINATION WITH GEC																						0		\$ -	
MANAGE ACTIVITIES																						0		\$ -	
E PROGRESS/COORDINATION MEETINGS (52 EXTERNAL MEETINGS)																						0		\$ -	
KICKOFF MEETING	2																					2		\$ 680	
PREPARE AGENDA/SIGN-IN SHEETS (ALL EXTERNAL MEETINGS)																						0		\$ -	
PREPARE MEETING MINUTES																						0		\$ -	
INTERNAL COORDINATION MEETINGS																						0		\$ -	
F PROJECT SCHEDULE AND UPDATE																						0		\$ -	
G PROJECT DOCUMENT/FILES																						0		\$ -	
H DELIVERABLES																						0		\$ -	
MONTHLY INVOICES AND PROGRESS REPORTS																						0		\$ -	
PROJECT SPECIFIC QA/QC PLAN																						0		\$ -	
MEETING MINUTES, SIGN-IN SHEETS, AND AGENDAS																						0		\$ -	
PROJECT SCHEDULE AND UPDATE																						0		\$ -	
PROJECT FILES																						0		\$ -	
QA/QC DOCUMENTATION																						0		\$ -	
<b>SUBTOTAL HOURS/COSTS</b>	<b>17</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>152</b>		<b>\$ 44,555.00</b>	
<b>FEE SUMMARY</b>																								<b>\$0.00</b>	
TASK 1 PROJECT MANAGEMENT	0	17	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	152		\$ 44,555.00	
TASK 2 PUBLIC INVOLVEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 3 UTILITY COORDINATION SUPPORT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 4 RIGHT OF WAY (ROW) AND MAPPING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 5 CONDEMNATION SUPPORT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 6 SURVEYING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 7 DRAINAGE STUDY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 8 ENVIRONMENTAL SERVICES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 9 GEOTECHNICAL SERVICES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 10 PLAN PREPARATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 11 PERMITS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
TASK 12 BIDDING PHASE SERVICES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -
<b>TOTAL HOURS</b>	<b>17</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>152</b>		<b>\$ 44,555.00</b>	
<b>CONTRACT RATES (\$)</b>	<b>\$ 340.00</b>	<b>\$ 310.00</b>	<b>\$ 275.00</b>	<b>\$ 235.00</b>	<b>\$ 195.00</b>	<b>\$ 145.00</b>	<b>\$ 175.00</b>	<b>\$ 135.00</b>	<b>\$ 110.00</b>	<b>\$ 310.00</b>	<b>\$ 275.00</b>	<b>\$ 260.00</b>	<b>\$ 195.00</b>	<b>\$ 280.00</b>	<b>\$ 225.00</b>	<b>\$ 145.00</b>	<b>\$ 235.00</b>	<b>\$ 210.00</b>	<b>\$ 245.00</b>	<b>\$ 105.00</b>					
<b>TOTAL LABOR COSTS</b>	<b>\$5,780</b>	<b>\$37,200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>				<b>\$0</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>						<b>\$1,575</b>			<b>\$ 44,555.00</b>	
<b>TOTAL BY CATEGORY</b>	<b>13%</b>	<b>83%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>4%</b>	<b>100%</b>		<b>\$ 44,555.00</b>	
<b>TOTAL LABOR = \$</b>																								<b>44,555.00</b>	
<b>TOTAL ODE = \$</b>																								<b>-</b>	
<b>TOTAL FEE = \$</b>																								<b>44,555.00</b>	
<b>TOTAL FEE</b>	<b>DIRECT EXPENSE ITEMS</b>																								
Standard Postage	letter		Current Postal rate																						
Certified Letter Return Receipt	each		Current Postal rate																						
MILEAGE	mile		\$0.675																						
OVERNIGHT MAIL - LETTER SIZE	each		\$25.40																						
OVERNIGHT MAIL - OVERSIZED BOX	each		\$35.00																						
COURIER SERVICES	each		\$35.00																						
PHOTOCOPIES B/W (11" X 17")	each		\$0.20																						
PHOTOCOPIES B/W (8 1/2" X 11")	each		\$0.10																						
PHOTOCOPIES COLOR (11" X 17")	each		\$1.25																						
PHOTOCOPIES COLOR (8 1/2" X 11")	each		\$0.75																						
DIGITAL ORTHO PLOTTING	sheet		\$1.75																						
PLOTS (B/W ON BOND)	per sq.		\$0.60																						
PLOTS (COLOR ON BOND)	per sq.		\$1.60																						
PLOTS (COLOR ON PHOTOGRAPHIC PAPER)	per sq.		\$4.00																						
NOTEBOOKS	each		\$5.00																						
Backhoe and Operator	each		\$3,000.00																						
Records Curation	each		\$350.00																						
Materials Curation	each		\$425.00																						
			<b>TOTAL</b>																					<b>\$0.00</b>	

**ATTACHMENT "D" FEE SCHEDULE**

**AGUIRRE FIELDS**

**East WiCo Highway Segment 6**

TASK / DESCRIPTION	SUPPORT / PROJECT MANAGER	SR QC REVIEWER	SR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	SR GIS TECH	SR ENG TECH	CADD OPERATOR	SR STRUCTURAL ENGINEER	STRUCTURAL ENGINEER	SR DRAINAGE ENGINEER	DRAINAGE ENGINEER	SR TRAFFIC ENGINEER	TRAFFIC ENGINEER	CLERICAL / ADMIN	TOTAL MAN-HOURS	SUB ID.	TOTAL LABOR FOR TASK
	\$309.00	\$263.00	\$260.00	\$195.00	\$170.00	\$121.00	\$186.00	\$186.00	\$109.00	\$276.00	\$192.00	\$276.00	\$177.00	\$276.00	\$177.00	\$93.00			
<b>TASK 1 PROJECT MANAGEMENT</b>																			
<b>A COMMUNICATION</b>																			
B PROGRESS REPORTS/INVOICING (26 MONTHS)	26															26	52		\$ 10,452
E PROGRESS/COORDINATION MEETINGS (52 EXTERNAL MEETINGS)																			\$ -
KICKOFF MEETING										2							2		\$ 552
PREPARE AGENDA/SIGN-IN SHEETS (ALL EXTERNAL MEETINGS)																			\$ -
PREPARE MEETING MINUTES																			\$ -
INTERNAL COORDINATION MEETINGS										58							58		\$ 16,008
																			\$ -
<b>SUBTOTAL HOURS/COSTS</b>	<b>26</b>									<b>60</b>						<b>26</b>	<b>112</b>		<b>\$ 27,012.00</b>
<b>TASK 10 PLAN PREPARATION</b>																			
<b>A PLANS PREPARED PER WILLIAMSON COUNTY AND TXDOT CRITERIA</b>																			
B DESIGN CRITERIA & CONCEPTUAL LAYOUT (PRE-30% SUBMITTAL)																			
REVIEW DESIGN CRITERIA UTILIZED FOR EXISTING APPROVED SCHEMATIC																			\$ -
SUBMIT UPDATED DESIGN SUMMARY FORM (DSF) AND DESIGN SUMMARY REPORT (DSR)																			\$ -
PREPARE CONCEPTUAL LAYOUT OF THE PROJECT																			\$ -
<b>C ROADWAY</b>																			
DESIGN AND DETAIL BRIDGES (3 ASSUMED)																			\$ -
BRIDGE NO. 1 SBFR AT PECAN BRANCH STREAM (1040' LENGTH, 57' WIDTH, 10 SPANS, TX46)	52				343		154	548	167	436							1700		\$ 275,751
BRIDGE NO. 2 SBFR AT PECAN BRANCH (125-250' LENGTH, 57' WIDTH, 2 SPANS, TX54)	21				141		54	192	58	150							616		\$ 99,330
BRIDGE NO. 3 SBML AT GRR/FM 971 (2400' LENGTH, 71' WIDTH, 22 SPANS, TX54)	73				663		307	1078	282	801							3204		\$ 509,008
BRIDGE NO. 4 NBFR @ INTERMITTENT STREAM BIG HOUSE BRANCH (360' LENGTH, 57' WIDTH, 3 SPANS, SKEW, TX54)	27				154		61	218	69	175							704		\$ 114,729
MISC BRIDGE PACKAGE ITEMS (MISC DETAILS, STANDARDS, GENERAL NOTES, ETC)	6				25		20	96	17	60							224		\$ 35,275
<b>C DELIVERABLES</b>																			
PRE 30% SUBMITTAL: DSF, TYPICAL SECTIONS, AND CONCEPTUAL LAYOUTS										5	5						10		\$ 2,340
30% PS&E SUBMITTAL: PER 30% PLAN SUBMITTAL CHECKLIST										5	5						10		\$ 2,340
60% PS&E SUBMITTAL: PER 60% PLAN SUBMITTAL CHECKLIST										5	5						10		\$ 2,340
90% PS&E SUBMITTAL: PER 90% PLAN SUBMITTAL CHECKLIST										5	5						10		\$ 2,340
100% PS&E SUBMITTAL: PER 100% PLAN SUBMITTAL CHECKLIST										5	5						10		\$ 2,340
FINAL PS&E SUBMITTAL: SEE 100% PLAN SUBMITTAL CHECKLIST										1	1						2		\$ 468
DRAFT AND FINAL DRAINAGE REPORT AND DRAINAGE MODELS																			\$ -
																			\$ -
<b>SUBTOTAL HOURS/COSTS</b>	<b>179</b>					<b>1326</b>		<b>596</b>	<b>2132</b>	<b>623</b>	<b>1652</b>						<b>6508</b>		<b>\$ 1,048,133.00</b>
<b>TASK 12 BIDDING PHASE SERVICES</b>																			
<b>A BIDDING PHASE SERVICES</b>																			
PREPARE ALL APPLICABLE CONSTRUCTION DOCUMENTS FOR BIDDING										2	2						4		\$ 936
PRE-BID MEETING; RESPOND TO QUESTIONS; PREPARE ADDENDA; ANALYZE BIDS; ETC										4	4						8		\$ 1,872
<b>B DELIVERABLES</b>																			
SIGNED AND SEALED FINAL BID DOCUMENTS										2	2						4		\$ 936
ADDENDA AS NECESSARY										4	4						8		\$ 1,872
BID ANALYSIS FOR RECOMMENDATION FOR AWARD										2	2						4		\$ 936
																			\$ -
<b>SUBTOTAL HOURS/COSTS</b>										<b>14</b>	<b>14</b>						<b>28</b>		<b>\$ 6,552.00</b>

**ATTACHMENT "D" FEE SCHEDULE**

**AGUIRRE FIELDS**

**East WilCo Highway Segment 6**

FEE SUMMARY																			
TASK 1	PROJECT MANAGEMENT	26														26	112	\$	27,012.00
TASK 2	PUBLIC INVOLVEMENT																	\$	-
TASK 3	UTILITY COORDINATION SUPPORT																	\$	-
TASK 4	RIGHT OF WAY (ROW) AND MAPPING																	\$	-
TASK 5	CONDEMNATION SUPPORT																	\$	-
TASK 6	SURVEYING																	\$	-
TASK 7	DRAINAGE STUDY																	\$	-
TASK 8	ENVIRONMENTAL SERVICES																	\$	-
TASK 9	GEOTECHNICAL SERVICES																	\$	-
TASK 10	PLAN PREPARATION	179				1326	596	2132	623	1652							6508	\$	1,048,133.00
TASK 11	PERMITS																	\$	-
TASK 12	BIDDING PHASE SERVICES																28	\$	6,552.00
<b>TOTAL HOURS</b>		<b>205</b>				<b>1326</b>	<b>596</b>	<b>2132</b>	<b>697</b>	<b>1666</b>						<b>26</b>	<b>6648</b>		<b>\$ 1,081,697.00</b>
<b>CONTRACT RATES (\$)</b>		\$ 309.00	\$ 263.00	\$ 260.00	\$ 195.00	\$ 170.00	\$ 121.00	\$ 186.00	\$ 186.00	\$ 109.00	\$ 276.00	\$ 192.00	\$ 276.00	\$ 177.00	\$ 276.00	\$ 177.00	\$ 93.00		
<b>TOTAL LABOR COSTS</b>		\$63,345				\$160,446	\$110,856	\$232,388	\$192,372	\$319,872						\$2,418			\$ 1,081,697.00
<b>TOTAL BY CATEGORY</b>		6%				15%	10%	21%	18%	30%						0%	100%		\$ 1,081,697.00
																	<b>TOTAL LABOR = \$ 1,081,697.00</b>		
																	<b>TOTAL ODE = \$ 135.00</b>		
																	<b>TOTAL FEE = \$ 1,081,832.00</b>		
<b>TOTAL FEE</b>																	<b>TOTAL FEE = \$ 1,081,832.00</b>		
<b>DIRECT EXPENSE ITEMS</b>		<b>UNIT</b>	<b>QTY</b>	<b>PRICE</b>	<b>TOTAL</b>														
Standard Postage		letter		Current Postal rate															
Certified Letter Return Receipt		each		Current Postal rate															
MILEAGE		mile	200	\$0.675	\$135.00	OR CURRENT IRS RATE													
OVERNIGHT MAIL - LETTER SIZE		each		\$25.40		OR CURRENT POSTAL RATE													
OVERNIGHT MAIL - OVERSIZED BOX		each		\$35.00															
COURIER SERVICES		each		\$35.00															
PHOTOCOPIES B/W (11" X 17")		each		\$0.20															
PHOTOCOPIES B/W (8 1/2" X 11")		each		\$0.10															
PHOTOCOPIES COLOR (11" X 17")		each		\$1.25															
PHOTOCOPIES COLOR (8 1/2" X 11")		each		\$0.75															
DIGITAL ORTHO PLOTTING		sheet		\$1.75															
PLOTS (B/W ON BOND)		per sq.		\$0.60															
PLOTS (COLOR ON BOND)		per sq.		\$1.60															
PLOTS (COLOR ON PHOTOGRAPHIC PAPER)		per sq.		\$4.00															
NOTEBOOKS		each		\$5.00															
Backhoe and Operator		each		\$3,000.00															
Records Curation		each		\$350.00															
Materials Curation		each		\$425.00															
				<b>TOTAL</b>	<b>\$135.00</b>														

**ATTACHMENT "D" FEE SCHEDULE**

**INLAND GEODETICS**

**East WilCo Highway Segment 6**

TASK/DESCRIPTION	PRINCIPAL	LICENSED STATE LAND SURVEYOR	PROJECT / SUPPORT MANAGER	RPLS	SR SURVEY TECH / SIT	SURVEY TECH	FIELD COORD	1-PERSON SURVEY CREW	2-PERSON SURVEY CREW	3-PERSON SURVEY CREW	4-PERSON SURVEY CREW	CLERICAL / ADMIN	TOTAL MAN-HOURS	SUB ID.	TOTAL LABOR FOR TASK
	\$350.00	\$200.00	\$190.00	\$175.00	\$130.00	\$110.00	\$90.00	\$125.00	\$205.00	\$285.00	\$365.00	\$75.00			
<b>TASK 1 PROJECT MANAGEMENT</b>															
A COMMUNICATION															\$ -
B PROGRESS REPORTS/INVOICING (26MONTHS)			26									52	78		\$ 8,840
C QA/QC	24											8	32		\$ 9,000
D PROJECT COORDINATION/ADMIN			30									15	45		\$ 6,825
E PROGRESS/COORDINATION MEETINGS (52 EXTERNAL MEETINGS)			18									1	19		\$ 3,495
F PROJECT SCHEDULE AND UPDATE			6									4	10		\$ 1,440
G PROJECT DOCUMENT/FILES															\$ -
H DELIVERABLES															\$ -
MONTHLY INVOICES AND PROGRESS PREPORTS															\$ -
PROJECT SPECIFIC QA/QC PLAN															\$ -
MEETING MINUTES, SIGN-IN SHEETS, AND AGENDAS															\$ -
PROJECT SCHEDULE AND UPDATE															\$ -
PROJECT FILES															\$ -
QA/QC DOCUMENTATION															\$ -
<b>SUBTOTAL HOURS/COSTS</b>	<b>24</b>		<b>80</b>									<b>80</b>	<b>184</b>		<b>\$ 29,600.00</b>
<b>TASK 4 RIGHT OF WAY (ROW) AND MAPPING</b>															
A PARCEL ACQUISITION DOCUMENTS (2 PARCELS ASSUMED, )			6	22	55							4	87		\$ 12,440
RESEARCH, COMPILE RECORDS, AND BUILD WORKING MAP															\$ -
CALC APPROX SEARCH DATA, RECOVER BOUNDARY MONUMENTS															\$ -
PREPARE ROW STRIP MAP															\$ -
PREPARE DRAFT PARCEL SKETCHES AND FIELD NOTES															\$ -
REVIEW TITLE COMMITMENTS															\$ -
SET MONUMENTS															\$ -
PAREPARE FINAL PARCEL SKETCHES AND FIELD NOTES															\$ -
STAKE ROW AS NEEDED															\$ -
B DELIVERABLES															\$ -
PROPERTY OWNER EXHIBITS (DRAWING FILE, PDF, AND HARDCOPIES)															\$ -
<b>SUBTOTAL HOURS/COSTS</b>			<b>6</b>	<b>22</b>	<b>55</b>							<b>4</b>	<b>87</b>		<b>\$ 12,440.00</b>
<b>Task 5 CONDEMNATION SUPPORTY</b>															
A CONDEMNATION HEARING EXHIBITS			2	9		16							27		\$ 3,715
PREPARE PRELIMINARY AND FINAL CONDEMNATION HEARING EXHIBITS (4 PARCELS)															\$ -
EXHIBITS															\$ -
B CONDEMNATION HEARINGS															\$ -
ATTEND PREPARTION MEETING(S) WITH ATTORNEY															\$ -
ATTEND CONDEMNATION MEETINS IN PERSON AND TESTIFY (UP TO 4 HEARINGS)															\$ -
C DELIVERABLES															\$ -
PRELIMINARY CONDEMNATION HEARING EXHIBITS (PDF)															\$ -
FINAL CONDEMNATION HEARING EXHIBITS (PDF)															\$ -
<b>SUBTOTAL HOURS/COSTS</b>			<b>2</b>	<b>9</b>		<b>16</b>							<b>27</b>		<b>\$ 3,715.00</b>

**ATTACHMENT "D" FEE SCHEDULE**

**INLAND GEODETTICS**

**East WilCo Highway Segment 6**

TASK 6 SURVEYING															
A RIGHT OF ENTRY (13 LETTERS ASSUMED)				38	75	374				420	234	94	18	1253	\$ 197,575
B PREPARE PRELIMINARY SCHEMATIC DELIVERABLE															
ESTABLISH HORIZONTAL AND VERTICAL CONTROL AND SET TEMPORARY BENCHMARKS															\$ -
PREPARE CONTROL POINT SHEET															\$ -
PERFORM DESIGN SURVEY TO PRODUCE 1" CONTOURS															\$ -
SURVEY HYDROLIC X-SECTs (7 CREEKS, 32 X-SECTs)															\$ -
SURVEY GTRR ROW															\$ -
SURVEY 3 ROAD INTERSECTIONS															\$ -
PLOT BOREHOLE LOCATIONS															\$ -
C DELIVERABLES															
LIST OF LAND OWNERS (XLS)															\$ -
MAPPING IN 2-D AND 3-D MICROSTATION FILES (GRID OR DATUM)															\$ -
PDF OF EACH SURVEYOR PROJECT NOTEBOOK															\$ -
DTM OF PROPOSED COORIDOR															\$ -
SURVEY CONTROL SHEET															\$ -
SUBTOTAL HOURS/COSTS															
				38	75	374				420	234	94	18	1253	\$ 197,575.00

FEE SUMMARY															
TASK 1 PROJECT MANAGEMENT	24			80									80	184	\$ 29,600.00
TASK 2 PUBLIC INVOLVEMENT															\$ -
TASK 3 UTILITY COORDINATION SUPPORT															\$ -
TASK 4 RIGHT OF WAY (ROW) AND MAPPING				6	22	55							4	87	\$ 12,440.00
TASK 5 CONDEMNATION SUPPORTY				2	9		16							27	\$ 3,715.00
TASK 6 SURVEYING				38	75	374				420	234	94	18	1253	\$ 197,575.00
TASK 7 DRAINAGE STUDY															\$ -
TASK 8 ENVIRONMENTAL SERVICES															\$ -
TASK 9 GEOTECHNICAL SERVICES															\$ -
TASK 10 PLAN PREPARATION															\$ -
TASK 11 PERMITS															\$ -
TASK 12 BIDDING PHASE SERVICES															\$ -
TOTAL HOURS															
	24			126	106	429	16			420	234	94	102	1551	\$ 243,330.00
CONTRACT RATES (\$)															
	\$ 350.00	\$ 200.00	\$ 190.00	\$ 175.00	\$ 130.00	\$ 110.00	\$ 90.00	\$ 125.00	\$ 205.00	\$ 285.00	\$ 365.00	\$ 75.00			
TOTAL LABOR COSTS															
	\$8,400		\$23,940	\$18,550	\$55,770	\$1,760		\$52,500	\$47,970	\$26,790		\$7,650			\$ 243,330.00
TOTAL BY CATEGORY															
	3%		10%	8%	23%	1%		22%	20%	11%		3%	100%		\$ 243,330.00

TOTAL LABOR =	\$	243,330.00
TOTAL ODE =	\$	4,875.00
TOTAL FEE =	\$	248,205.00

TOTAL FEE				
DIRECT EXPENSE ITEMS	UNIT	QTY	PRICE	TOTAL
Standard Postage	letter		Current Postal rate	
Certified Letter Return Receipt	each		Current Postal rate	
MILEAGE	mile	1000	\$0.675	\$675.00
OVERNIGHT MAIL - LETTER SIZE	each		\$25.40	
PHOTOCOPIES B/W (11" X 17")	each		\$0.20	
PHOTOCOPIES B/W (8 1/2" X 11")	each		\$0.10	
PHOTOCOPIES COLOR (11" X 17")	each		\$1.25	
PHOTOCOPIES COLOR (8 1/2" X 11")	each		\$0.75	
PLOTS (B/W ON BOND)	per sq.		\$0.60	
PLOTS (COLOR ON BOND)	per sq.		\$1.60	
NOTEBOOKS	each		\$5.00	
ATV	each	70	\$60.00	\$4,200.00
			TOTAL	\$4,875.00

OR CURRENT IRS RATE  
OR CURRENT POSTAL RATE