WORK AUTHORIZATION NO. 1

WILLIAMSON COUNTY ROAD BOND PROJECT:
24RFSQ11 RM 620/SH 45 Extension to McNeil Road
(Robinson Ranch Road)

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated February 12th, 2025 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and HDR Engineering, Inc (the "Engineer").

Part1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is $1,522,070.80

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on December 31st , 2025. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

Continued next page

EXECUTED this_____day of_____, 20___.

ENGINEER:	COUNTY:
HDR Engineering, Inc.	Williamson County, Texas
By:_____ Digitally signed by Word, Justin Date: 2025.05.07 10:32:10-05'00'	By: _____
Signature	Signature
Justin Word	
Printed Name	Printed Name
Senior Vice President	
Title	Title

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

APPROVED
By Christen Eschberger at 10:54 am, May 08, 2025

ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY
FOR 24RFSQ11 RM 620/SH 45 Extension to McNeil Road (Robinson Ranch Road)

In general, Williamson County and its representatives to their best efforts will render services as follows:

1. Name, business address and phone number of County's project manager.

2. Assistance to the Engineer, as necessary, with obtaining data and information from other local, regional, State and Federal agencies required for this project.

3. Obtain Rights of Entry from landowners that are unwilling to grant access to the Engineer.

4. Provide available appropriate County data on file, plans and specifications that are deemed pertinent to the completion of the work required by the scope of services (including previous hydraulic studies, models, previous reports and studies, available existing traffic counts, and design year traffic projections).

5. Provide available criteria and full information as to the client's requirements for the project. Provide examples of acceptable format for the required deliverables.

6. Provide timely reviews and decisions necessary for the Engineer to maintain the project work schedule. Review recommendations offered by the Engineer, progress of work, and final acceptance of all documents.

7. Submittal of documentation to regulatory agencies for review and comment, when specified.

8. Support project development efforts with stakeholders, coordinate meetings and interface with stakeholders, as needed.

9. Post and maintain project information for public consumption on the County website.

10. Assist with Coordination between the Engineer and the County's other subconsultants.

11. Negotiate with all utility companies for any agreements and/or relocations required.

12. Provide an agent as necessary to secure proposed ROW.

13. Provide an estimate of the cost for any required ROW, easements, and associated improvements, if these are to be included in the Engineer's Estimate of Probable Construction Cost.

14. Provide available horizontal control points, benchmark elevations and descriptions for vertical control in the project area.

15. Provide construction observation and review contractor pay applications and progress.

16. Provide Engineer with Contractor submittals, Requests for Information (RFI's), shop drawings, and correspondence.

17. Review Engineer progress, submittals, and plan changes.

18. Processing of all periodic payment requests submitted by Engineer.

19. Provide previously approved Design Summary Form (DSF) and Design Summary Report (DSR).

20. Provide available Hydrologic/Hydraulic models from the schematic phase.

ATTACHMENT B

SERVICES TO BE PROVIDED BY THE ENGINEER FOR

24RFSQ11 RM 620/SH 45 Extension to McNeil Road (Robinson Ranch Road)

Work Authorization 1: Schematic and Environmental Studies

PROJECT DESCRIPTION

Project Limits

The project limits are from RM-620 and SH-45 to McNeil Rd, an approximate length of 2.3 miles

Existing Facility

Not applicable due to brand new alignment.

Proposed Facility

The ultimate condition for the roadway consists of 3-12' lanes in each direction, a curbed median with openings at designated cross streets and applicable developments, curb and gutter, and a proposed stormwater system. The proposed ROW is approximately 146 feet. This facility includes 3 bridges crossings over three existing floodplains and CapMetro railroad.

Design Criteria

The proposed design criteria for the project will be developed from the Williamson County Design Manual and TxDOT design criteria. TxDOT Criteria only applies to portions the project within TxDOT ROW. The bridge crossing railroad tracks will be developed to meet CapMetro criteria.

1. TASK 1-PROJECT MANAGEMENT

   a. COMMUNICATION

      - Engineer shall designate one Licensed Professional Engineer (Texas) to be responsible for the project, management, and communications with the County and its representatives.

   b. MONTHLY PROGRESS REPORT, INVOICES, AND BILLINGS (12 months assumed):
      - Submit monthly progress status reports to the GEC. Progress reports will include: deliverable table, task 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 report 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.

   c. 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 preparations 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.

   d. 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.

e. PROGRESS/COORDINATION MEETINGS (24 external meetings assumed):

- Attend a kickoff meeting and bi-weekly 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 weekly internal coordination meetings as required to advance the development of the project (assumed Project Manager and Task Leads).

f. PROJECT DESIGN SCHEDULE:

- Maintain a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables. Submit to County as requested.
- 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 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 approved supplements. If the schedule deviates from the baseline, a recovery schedule approved by the County is required.

g. PROJECT DOCUMENTS/FILES:

- 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.

h. 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

2. TASK 2-ROUTE AND DESIGN STUDIES

a. DATA COLLECTION:

- Perform record research and obtaining existing information, including but not limited to: as-built plans, construction plans, right of way maps, traffic data, environmental reports, studies, future land use maps, floodplain data, floodplain, geotechnical reports, pavement design reports, and drainage models and analyses. Obtain construction plans for projects within the project limits and abutting TxDOT and County

Roads. Obtain drainage studies, reports, and mapping for the project area, including reports for developments affecting the drainage area.

- Conduct a field investigation of the proposed roadway alignment and the surrounding area to determine field conditions including photographic record of notable existing features.
- Develop and maintain adjacent property ownership information (including owner's name, tenant name for leased property, mailing address, property address, property id number) spreadsheet to be used for disseminating project information.
- Review aerial photography and contours provided by Williamson County. County provided aerial photography and contours will be the basis for developing constraints maps and route options.
- Obtain historical traffic counts and crash data from available sources. Collect peak period turning movement counts at the SH 45N / RM 620 / Pearson Ranch Road box diamond interchange. Obtain traffic projections from the County and evaluate if the projections need adjusting.
- Review the data collected and organize the information.

b. DESIGN CRITERIA:

- Submit a Design Summary Form (DSF) and typical sections in accordance with the latest version of Williamson County Design Criteria Manual., and Design Summary Report (DSR) per TxDOT Roadway Design Manual as applicable.

c. CONSTRAINT MAP (1 preliminary alignment assumed):

- Develop evaluation criteria to assist in evaluating route alignment alternatives.
- Develop a constraints map and technical memorandum that includes environmental concerns, known constraints (structures, floodplain, karst features), aerial photography, contour information, utility information, based on research of public databases and sources and

details screening measures and decision practices for eliminating non-viable corridors.

- Refine preliminary alignment based on stakeholder input, design criteria, existing structures, potential displacements, right of way limits and requirements, known developments, FEMA floodplain areas, existing and proposed drainage structures and issues.

d. DELIVERABLES:

- Results of Records Research of Existing Information to ProjectWise.
- Property Owner Spreadsheet and Updates
- Constraints Map Preliminary Alignments and Technical Memorandum (pdf and hardcopies)
- Constraints Map Refined Alignment and Technical Memorandum Recommendation (pdf and hardcopies)
- Design Summary Form, Design Summary Report, and typical sections (pdf and hardcopies)
- Raw turning movement count data, SH 45N / RM 620 / Pearson Ranch Road box diamond interchange

3. TASK 3-PUBLIC INVOLVEMENT

a. PUBLIC INVOLVEMENT SUPPORT

- Review he 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 2 exhibits assumed).

b. 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 3 meetings assumed).
- Provide property owner exhibits identifying parent tract (including area) and right-of-way acquisition (including parcel acquisition and remainder areas) (assumed 2 exhibits).
- One person will attend meetings as requested (up to 6 meetings).

c. AGENCY COORDINATION 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 10 meetings assumed). It is anticipated that this will consist of the following:
    1. TxDOT Coordination
    2. CapMetro Coordination
        a. Prepare a preliminary layout of the overpass (Exhibit 'A') including the roadway geometrics, bridge layout, horizontal/vertical clearance envelope, and track profile. CapMetro criteria shall be used for preparing the exhibit. In the absence of specific criteria, TxDOT's design guidance for UPRR/BNSF overpass design shall be used.

d. 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.

4. TASK 4-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:
    1. Incorporate utility information provided by others into design files.
    2. Add utility notes to plans and exhibits as necessary.
    3. Consider/incorporate utility work into traffic control phasing plans as necessary.
- UTILITY MEETINGS:
    1. Meet with utility coordinator and review utility impacts and potential relocations to identify appropriate approach to reducing/ mitigating impacts (up to 1 meetings).
    2. Attend meetings with utilities as requested (up to 1 meetings)
- DELIVERABLES:
    1. Utility information, provided by others, incorporated into plans and design files.
    2. Reviews of utility relocation plans.

5. TASK 5-SURVEYING

a. RIGHT OF ENTRY (**2** letters assumed):

- 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.

b. FIELD SURVEYING:

- Survey the corridor area at approximately 50-foot intervals and to include 100 feet on either side of the proposed roadway centerline as necessary to produce one-foot interval contours. Provide river/creek channel cross sections upstream and downstream of each proposed drainage cross structures. 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, and sidewalk.

- Establish horizontal and vertical 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.
- Locate up to 20 boreholes with locations to be provided by the Engineer.

c. 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

6. TASK 6-RIGHT OF WAY (ROW) AND MAPPING

a. ROW MAP:

- Research and compile deed/plat records and build a working map from recorded data.
- Calculate approximate search data to recover right of way monumentation and make initial pass to recover right of way monumentation.
- Draft preliminary right of way map and list of impacted tracts (DGN format).

b. PARCEL ACQUISITION DOCUMENTS (5 parcel documents assumed, 5 staking assumed, 2 exhibits assumed)

- Prepare draft parcel sketches and field notes documents for right of way parcel and easement acquisition. Note 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.

c. MONUMENTATION AND ROW STAKING:

- Set appropriate monumentation in accordance with County requirements (up to 10 iron rods). Prepare signed and sealed documents for right of way parcel and easement acquisition.
- Stake proposed right of way with suitable markers as requested on a parcel-by-parcel basis for the purposes of fence construction, utility installation, or property owner requests. Up to 5 properties, one time only.

d. DELIVERABLES:

- Preliminary ROW Map and affected property owners (2) list (drawing file in DGN only)
- Final Row Map and affected property owner list (drawing file in DGN only)
- Draft Parcel acquisition Documents (PDF)
- Final Parcel Acquisition Documents (one original and PDF)
- Property owners (2) exhibits (drawing file, PDF, and hard copies)

7. TASK 7-SCHEMATIC DESIGN AND DEVELOPMENT

The Engineer shall prepare an ultimate roadway schematic in accordance with the County's and TxDOT's established submittal standards and design criteria and will include projected traffic volumes, proposed cross sections, typical sections, roadway centerline, proposed drainage structures, direction of flow and number of travel lanes, intersecting streets, property boundaries and information, ROW and easement locations, preliminary

pavement section (using Anderson Mill Rd Extension pavement section), driveway locations, horizontal alignment data, profile data, identification of known utilities, and retaining wall.

a. Prepare preliminary schematic submittal per Williamson County submittal requirements and selected design criteria including proposed cross sections, typical sections, roadway centerline, proposed drainage structures, direction of flow and number of travel lanes, intersecting streets, property boundaries and information, ROW and easement locations, preliminary pavement section, driveway locations, horizontal alignment data, profile data, identification of known utilities, retaining wall and bridge locations.

b. Prepare final schematic submittal per Williamson County submittal requirements and selected design criteria.

c. Prepare interchange configuration evaluation (ICE), which consists of the following steps:

    - Summarize historical traffic volume and crash data. Summarize existing a.m. and p.m. peak period turning movement counts.
    - Develop design year forecasted a.m. and p.m. peak hour for the SH 45N / RM 620 / Pearson Ranch Road / Robinson Ranch Road proposed box diamond interchange. The traffic projection data documented in DCCM's memorandum, dated December 9, 2024, will serve as a base for the turning movement projections.
    - Code design year a.m. and p.m. peak period *Synchro* models of the SH 45N / RM 620 / Pearson Ranch Road / Robinson Ranch Road proposed box diamond interchange. These models will serve as the base for the interchange alternatives analysis.
    - Conduct initial screening of potential interchange types based on high-level assessment of available right-of-way, intersection spacing, etc.
    - Conduct analysis of select alternatives using the design year a.m. and p.m. peak period *Synchro* models developed previously.

- Conduct safety analysis using predictive safety analysis tools (if applicable to box diamond interchanges) or high-level, qualitative methods.
- Summarize results in a memorandum (draft and final versions).

d. DELIVERABLES:

- Preliminary Schematic Submittal including cost estimate per submittal requirements.
- Final Schematic Submittal including cost estimate per submittal requirements.
- Design year a.m. and p.m. peak period *Synchro* models of ICE alternatives under consideration
- ICE memoranda (draft and final)

8. TASK 8-SCHEMATIC DRAINAGE STUDY

a. HYDROLOGIC /HYDRAULIC MODELING (3 major channel crossings, 1 cross drainage structures assumed):

- Prepare hydrologic and hydraulic models or modify existing models (FEMA, drainage districts, river authorities, counties, 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, right-of-way drainage, 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 stream modeling. HY-8 will be utilized for culverts. Atlas 14 impacts will be reviewed and incorporated.
- Develop existing channel cross sections based on data collection.
- Exhibits and analysis will be prepared in the GIS environment to the extent practical.

b. COUNTY FLOODPLAIN ADMINISTRATION COORDINATION:

- Coordinate with County Floodplain Administrator assuming two (2) meetings throughout the schematic phase. Revise schematic report submittals based on county comments. FEMA coordination is not anticipated in this schematic phase.

c. IMPACTS:

- 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 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.

d. DETENTION NEEDS ANALYSIS:

- Engineer will evaluate Williamson County detention requirements at each outfall and prepare an impact analysis to determine increases in peak flow rate for the 100-year frequency storm for fully built and interim roadway scenarios. Detention needs analysis including: existing and proposed peak flow rates, mitigation analysis, schematic detention basin layouts area in plan view based on the estimated detention volume and a special pond depth to determine ROW needs.
- Engineer will prepare a detention analysis report to be included in the Schematic Drainage Report discussing methodologies, assumptions, and recommendations.

e. WATER QUALITY NEEDS ANALYSIS (5 water quality locations assumed)

- Develop schematic water quality calculations following TCEQ Edward's Aquifer Protection Program to determine Total Suspended Solids (TSS) removal for full build out and interim conditions based on the proposed roadway alignment provided by the roadway design team.
- The proposed roadway alignment is located in the Recharge Zone and the Engineer will determine schematic ultimate water quality facilities to determine ROW needs. It is assumed that sediment filtration ponds will

be sized for ultimate conditions and vegetative filter strips and grassy swales will be utilized for interim conditions for this schematic effort.

- Engineer will prepare a water quality analysis report to be included in the Schematic Drainage Report discussing methodologies, assumptions, and recommendations.

f. SCHEMATIC DRAINAGE REPORT:

- Prepare Draft and Final Schematic Drainage Report submittal per Williamson County Schematic submittal checklist and selected design criteria.

g. DELIVERABLES:

- Draft & Final Schematic Drainage Report.

9. TASK 9-ENVIRONMENTAL SERVICES & DOCUMENTS

a. COUNTY DUE DILIGENCE:

- The Environmental Services will include studies and documentation required, 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 necessary to proceed with the proposed project.

b. TXDOT ENVIRONMENTAL CLEARANCE:

- Prepare environmental documentation utilizing the most current guidance located in TxDOT's online Environmental Compliance Toolkits. Information needed for the TxDOT clearance is anticipated to be required only for the work in TxDOT ROW; however, TxDOT clearance is required for the entire county project if state or federal funds are assigned.

- Prepare the appropriate level of documentation and assist on one Public Meeting as described under Public Involvement this includes assisting Williamson County and TxDOT if required in following this document through approval. This will include discussions of purpose and need, existing and proposed design, 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 conclusion.
- Assumption is that one Categorical Exclusion document would be required for the proposed work located within TxDOT ROW at the proposed connection to SH 45N.
- Coordinate and correspond with the local county historic chairperson, Texas Parks and Wildlife Department, and the U.S. Fish and Wildlife Service.

c. 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.

d. HAZARDOUS MATERIALS ENVIRONMENTAL SITE ASSESSMENT:

- Prepare Hazardous Materials Environmental Site Assessment (ESA) based on the data collection and field reconnaissance conducted and identify potential hazardous material sites that may be impacted by the proposed project.

e. 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 Jurisdictional Waters Delineation Report identifying: specific impacts of the project on the Waters of the U.S., measures to minimize the impacts will be identified, and discuss applicable Section 404 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) with a pre-construction notification (PCN).
- If it is determined, after the Jurisdictional Waters Delineation Report, that a PCN is required; a supplemental work authorization would be required. The Jurisdictional Waters Delineation Report and NWP with PCN are subject to the U.S. Army Corps of Engineers Forth Worth District review and issuance of a permit.

f. ENGANGERED SPECIES ACT COMPLIANCE:

- Prepare a letter documenting the project's effects on federally listed karst and salamander Threatened & Endangered Species to document the project's compliance with the Endangered Species Act based on data collection and field reconnaissance.

- Coordination with County's program level environmental consultant.
- Assumption is that SWCA will handle documentation needed for impacts to karst and salamander threatened and endangered species., other than karst and salamander species, which would be covered in this scope.

g. TEXAS ANTIQUITIES CODE (TAC) COMPLIANCE:

- Prepare an Antiquities Permit Application and associated Scope of Work based on desktop data collection.
- Conduct an archeological survey and prepare a report of sufficient intensity to determine the nature, extent, and historic significance of cultural resources located within the project area in compliance with the guidelines published by the Council of Texas Archeologists, the Texas Historical Commission, and the Secretary of the Interior's Guidelines, and in accordance with full report guidelines as outlined by the Texas Historical Commissions Rules of Practice and Procedures.
- If a National Register of Historic Places (NRHP)-listed resources or resources recommended eligible for listing in the NRHP are identified within the APE, the report will include a discussion applying the criteria of effect.
- Coordination with Texas Historical Commission including submittals to Texas Historical Commission and project records to the appropriate curation facility per Texas Historical Commission requirements.
- Assumptions:
    1. HDR assumes that no coordination under Section 106 of the National Historic Preservation Act will be performed for this project. Should such coordination become necessary, it would be performed under an additional scope and fee.
    2. HDR assumes 1 2-day archeological mobilization and that right of entry will be granted to the parcels at the time of survey.
    3. HDR assumes an archaeological survey corridor 1 mile in length, and 154 feet in width, requiring 2 transects spaced 98 feet apart.

4. The current cost estimate assumes that no deep testing will be necessary.
5. A maximum of 1 archaeological site no larger than 0.5 acres will be recorded. When archaeological sites are identified, their delineation will not extend beyond the project area boundaries. If additional sites are located, their recordation would be covered under a scope amendment.
6. Costs for the analysis of up to 50 artifacts have been included in the current proposal. Should analysis of additional artifacts be necessary, additional funding will be required.
7. The current cost estimate does not include NRHP/State Antiquities Landmark testing or mitigation.
8. The current cost estimate does not include built environment surveys or assessments.
9. HDR assumes no human burials will be encountered. If human burials are encountered, burial exhumation, osteological analysis, and reporting would be covered under a scope amendment.
10. No archival research is included in this cost estimate.
11. No specialized collections, such as flotation or radiocarbon samples, will be undertaken as part of this work.

h. GEOPHYSICAL SURVEY

- The engineer shall perform the preliminary Phase I -GPR Survey:
    1. Confirm feasibility of the GPR survey and equipment for the site conditions
    2. Provide initial mapping of potential hazards (e.g., sinkholes or voids) along the planned ROW
    3. Locate Anomalies that may indicate karst features such as cavities, sinkholes or weathered and fractured zones typical in karst terrains along the planned ROW.
    4. Provide recommendations for follow-up surveys
- The engineer shall perform the final Phase 2 -Detail:

1. Karst features including air-filled and/or sediment-filled voids
2. Other karst features such as sinkholes and weathered and/or fractured bedrock formations
3. Groundwater related features
4. Man-made formations such as old building foundations and culverts, etc.

i. DELIVERABLES:

- Draft & Final Environmental Due Diligence Report
- Draft and Final Regulatory Records Review
- Draft & Final Hazardous Materials Site Assessment (ESA) Report
- Draft & Final Wetlands Determination/Jurisdictional Waters Determination
- Draft & Final Texas Antiquities Permit Application Associated Scope of Work and Report
- TxDOT Environmental Clearance Documentation
    1. TxDOT Species Analysis Spreadsheet and Form
    2. Hazardous Materials Initial Site Assessment (if required)
- Provide Final Acceptance Correspondence of Approval of Permits
- Karst and salamander information for Threatened/Endangered Species Report
- Geophysical Survey Deliverables:
    1. Raw and Field Data: GPR Profiles/Radargrams-Raw two-dimensional (2D) images that show the time-dependent reflections from subsurface interfaces related to karst features. Further, our deliverables will include Survey Logs and Field work related information such as records of survey parameters (antenna frequency, grid spacing, and environmental conditions, etc.)
    2. Written report and recommendations including Processed Data Products and interpretations.

10. EXCLUSIONS

a. Plan Preparation (PS&E) Services

b. Geotechnical Services

c. Bidding Phase Services

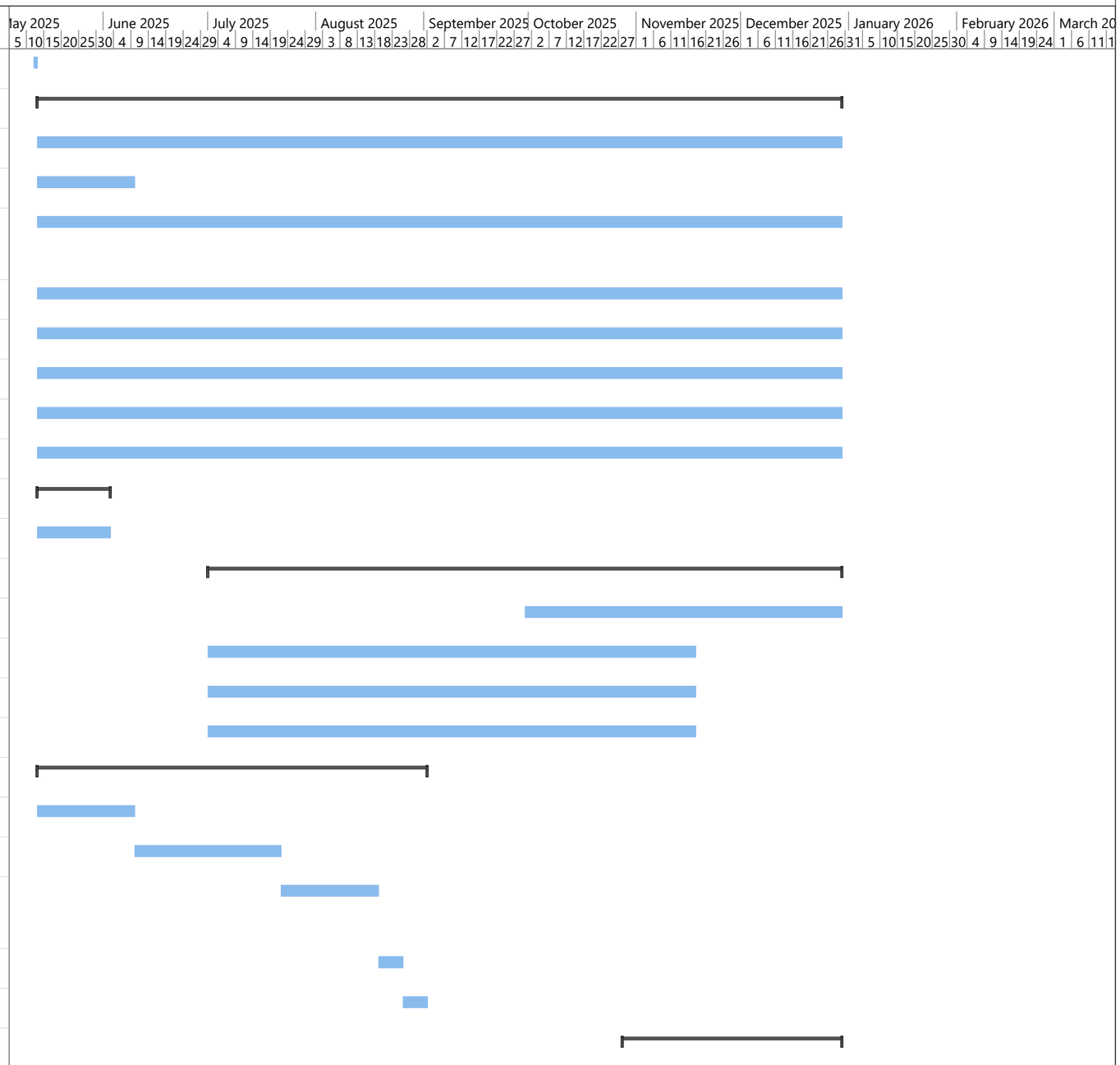
d. Construction Phase Services

e. TCEQ Edwards Aquifer Protection Plan and FEMA Coordination will be done during PS&E

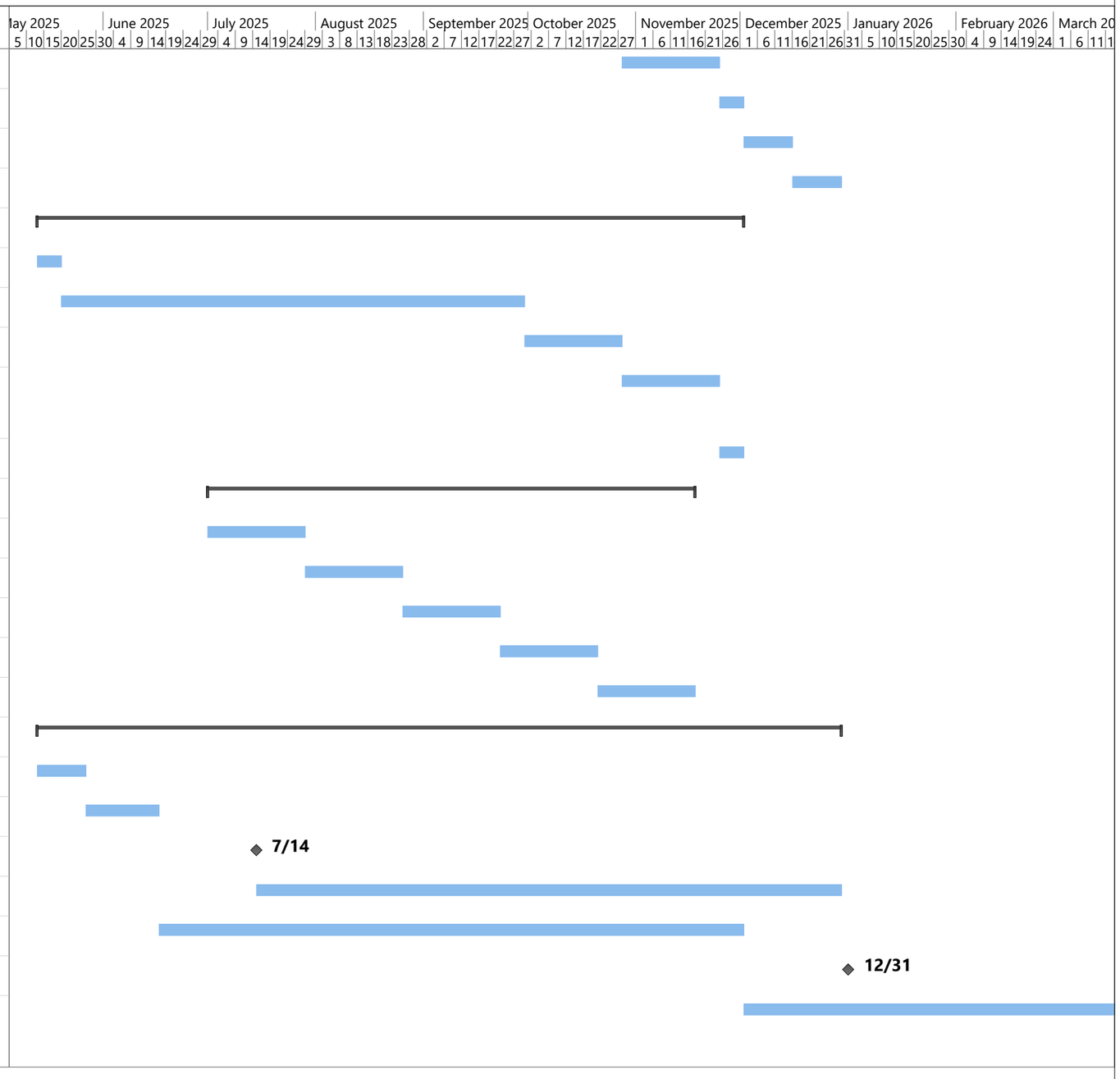
WILLIAMSON COUNTY
24RFSQ11 RM 620/SH 45 Extension to McNeil Rd
(Robinson Ranch Road)

ATTACHMENT C
PROJECT SCHEDULE

ID	Task Name	Duration	Start	Finish
1	Notice To Proceed (NTP)	1 day	Mon 5/12/25	Mon 5/12/25
2	**Task 1- Project Management**	**165 days**	**Tue 5/13/25**	**Mon 12/29/25**
3	Communication	165 days	Tue 5/13/25	Mon 12/29/25
4	Project Specific QA/QC	20 days	Tue 5/13/25	Mon 6/9/25
5	Monthly Progress report, Invoices, and Billings	165 days	Tue 5/13/25	Mon 12/29/25
6	Quality Assurance and Quality Control	165 days	Tue 5/13/25	Mon 12/29/25
7	Project Coordination & Administration	165 days	Tue 5/13/25	Mon 12/29/25
8	Progress/Coordination Meetings	165 days	Tue 5/13/25	Mon 12/29/25
9	Project Design Schedule	165 days	Tue 5/13/25	Mon 12/29/25
10	Project Document/Files	165 days	Tue 5/13/25	Mon 12/29/25
11	**Task 2- Route and Design Studies**	**15 days**	**Tue 5/13/25**	**Mon 6/2/25**
12	Data Collection	15 days	Tue 5/13/25	Mon 6/2/25
13	**Task 3- Public Involvement**	**130 days**	**Tue 7/1/25**	**Mon 12/29/25**
14	Public Involvement Support	65 days	Tue 9/30/25	Mon 12/29/25
15	Property Owner Meeting Support	100 days	Tue 7/1/25	Mon 11/17/25
16	Stakeholder Meetings	100 days	Tue 7/1/25	Mon 11/17/25
17	Utility Coordination Support	100 days	Tue 7/1/25	Mon 11/17/25
18	**Task 5- Surveying**	**80 days**	**Tue 5/13/25**	**Mon 9/1/25**
19	Right of Entry	20 days	Tue 5/13/25	Mon 6/9/25
20	Field Surveying	30 days	Tue 6/10/25	Mon 7/21/25
21	Mapping in 2-D and 3-D MicroStation Files (Grid or Datum)	20 days	Tue 7/22/25	Mon 8/18/25
22	PDF of each Surveyor Project Notebook	5 days	Tue 8/19/25	Mon 8/25/25
23	Survey Control Sheets	5 days	Tue 8/26/25	Mon 9/1/25
24	**Task 6- ROW and Mapping**	**45 days**	**Tue 10/28/25**	**Mon 12/29/25**



ID	Task Name	Duration	Start	Finish
25	ROW Base Mapping	20 days	Tue 10/28/25	Mon 11/24/25
26	Parcel Plats (5 EA)	5 days	Tue 11/25/25	Mon 12/1/25
27	Wilco and TxDOT Reviews ROW deliverables	10 days	Tue 12/2/25	Mon 12/15/25
28	Address Comments & Sign/Seal ROW Deliverables	10 days	Tue 12/16/25	Mon 12/29/25
29	**Task 7- Schematic Design and Development**	**145 days**	**Tue 5/13/25**	**Mon 12/1/25**
30	Design Criteria	5 days	Tue 5/13/25	Mon 5/19/25
31	Develop Ultimate Schematic	95 days	Tue 5/20/25	Mon 9/29/25
32	WilCo/GEC Review Ultimate Schematic	20 days	Tue 9/30/25	Mon 10/27/25
33	Address Ultimate Schematic Comments and Finalize Schematic	20 days	Tue 10/28/25	Mon 11/24/25
34	WilCo/GEC Approve Ultimate Schematic	5 days	Tue 11/25/25	Mon 12/1/25
35	**Task 8- Drainage Study**	**100 days**	**Tue 7/1/25**	**Mon 11/17/25**
36	Hydrologic/Hydraulic Modeling	20 days	Tue 7/1/25	Mon 7/28/25
37	Impact and Mitigation Analysis	20 days	Tue 7/29/25	Mon 8/25/25
38	Detention Analysis	20 days	Tue 8/26/25	Mon 9/22/25
39	Water Quality Analysis	20 days	Tue 9/23/25	Mon 10/20/25
40	Preliminary and Final Drainage Report	20 days	Tue 10/21/25	Mon 11/17/25
41	**Task 9- Environmental Services and Documents**	**165 days**	**Tue 5/13/25**	**Mon 12/29/25**
42	Right of Entry	10 days	Tue 5/13/25	Mon 5/26/25
43	Data Collection and Field Reconnaissance	15 days	Tue 5/27/25	Mon 6/16/25
44	Acquire CSJ	0 days	Mon 7/14/25	Mon 7/14/25
45	TxDOT Environmental Clearance	120 days	Tue 7/15/25	Mon 12/29/25
46	County Due Dilligence	120 days	Tue 6/17/25	Mon 12/1/25
47	Work Authorization No. 1 Contract Termination	0 days	Wed 12/31/25	Wed 12/31/25
48	PS&E (To Be Done in a Separate Work Authorization)	260 days	Tue 12/2/25	Mon 11/30/26



WILLIAMSON COUNTY
24RFSQ11 RM 620/SH 45 Extension to McNeil Road
(Robinson Ranch Road)
Work Authorization No. 1

ATTACHMENT D
FEE SCHEDULE
HDR ENGINEERING, INC.

TASK	HDR Engineering, Inc.	McGray & McGray Land Surveyors, Inc	LJA	Round Rock Geophysics, LLC	Cambrian	**TOTALS**
1. Project Management	$ 239,550.00	$ -	$ -	$ -	$ -	**$239,550.00**
2. Route and Design Studies	$ 35,000.00	$ -	$ -	$ -	$ -	**$35,000.00**
3. Public Involvement	$ 110,178.00	$ -	$ -	$ -	$ -	**$110,178.00**
4. Utility Coordination Support	$ 14,320.00	$ -	$ -	$ -	$ -	**$14,320.00**
5. Survey	$ -	$ 97,876.00	$ -	$ -	$ -	**$97,876.00**
6. ROW and Mapping	$ 8,280.00	$ 107,759.00	$ -	$ -	$ -	**$116,039.00**
7. Schematic Design and Development	$ 395,790.00	$ -	$ -	$ -	$ -	**$395,790.00**
8. Schematic Drainage Study	$ 128,795.00	$ -	$ 121,400.00	$ -	$ -	**$250,195.00**
9. Environmental Services and Documents	$ 103,328.00	$ -	$ -	$ 34,152.80	$ 67,820.00	**$205,300.80**
10. Geotechnical Services	$ -	$ -	$ -	$ -	$ -	**$0.00**
SUBTOTALS - LABOR	$1,035,241.00	$205,635.00	$121,400.00	$34,152.80	$67,820.00	**$1,464,248.80**
DIRECT EXPENSES	$14,792.00	$26,680.00	$0.00	$16,350.00	$0.00	**$57,822.00**
TOTALS	**$1,050,033.00**	**$232,315.00**	**$121,400.00**	**$50,502.80**	**$67,820.00**	**$1,522,070.80**

WILLIAMSON COUNTY
24RFSQ11 RM 620/SH 45 Extension to McNeil Road
(Robinson Ranch Road) Work Authorization No. 1

ATTACHMENT D
FEE SCHEDULE
HDR ENGINEERING, INC.

Prime Firm - HDR

TASK DESCRIPTION	Project Manager	Senior QC Reviewer	Project Engineer	Design Engineer (5-10 yrs)	Engineer in Training II	Senior GIS Technician	Senior CADD Tech	Senior Structural Engineer	Senior Project Engineer	Senior Env Project Manager	Senior Env Poject Planner	Env Scientist	Env Planner IV	Env Planner III	Env Planner I/II	Admin/Clerical	TOTAL LABOR HOURS & COSTS
1. Project Management																	
a. Communication																	
Project Management and County Communication	48																48
b. Monthly Progress Reports, Invoices, and Billings																	
Prepare and Submit Invoices and Progress Reports	12		24													24	60
c. Quality Assurance and Quality Control Plan																	
Prepare a Project-Specific QA/QC Plan	2	2															4
QC of Each Deliverable	10	90															100
Provide Continuous QA/QC	10	124															134
d. Project Coordination and Administration																	
Project Coordination and Administration	48																48
e. Progress/ Coordination Meetings																	
County Kickoff and Coordination Meetings (External)	24		24														48
Meeting Agenda and Sign-In Sheets	12		48		48												108
Meeting Minutes			24														24
Conduct Internal Coordination Meetings	52		52		52				26	26							208
f. Project Design Schedule																	
Baseline and Progress Schedule	12		24														36
g. Project Documents/ Files																	
Submit Contract Documents	8		48														56
HOURS SUB-TOTALS	238	216	244	0	100	0	0	0	26	26	0	0	0	0	0	24	874
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$82,110.00	$74,520.00	$50,020.00	$0.00	$15,000.00	$0.00	$0.00	$0.00	$6,630.00	$8,918.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,352.00	$239,550.00
% DISTRIBUTION OF STAFFING	27.2%	24.7%	27.9%	0.0%	11.4%	0.0%	0.0%	0.0%	3.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%	
SUBTOTAL (1. Project Management)																	**$239,550.00**

2. Route and Design Studies																	
a. Data Collection																	
Perform Record Research	2		4			8	8										22
Conduct a Field Investigation	10		24	24					24								82
Review Data and Organize Information	4		8		12		12										36
b. Design Criteria																	
Submit DSF, Typical Sections and DSR	1	2	4			4											11
c. Constraints Map																	
Preliminary Alignment (1 assumed)	1		2	2		8											13
HOURS SUB-TOTALS	18	2	42	26	12	20	20	0	24	0	0	0	0	0	0	0	164
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$6,210.00	$690.00	$8,610.00	$4,810.00	$1,800.00	$2,960.00	$3,800.00	$0.00	$6,120.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$35,000.00
% DISTRIBUTION OF STAFFING	11.0%	1.2%	25.6%	15.9%	7.3%	12.2%	12.2%	0.0%	14.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (2. Route and Design Studies)																	**$35,000.00**

3. Public Involvement																	
a. Public Involvement Support																	
Provide Info for Fact Sheets	2		20							20							42
Provide Exhibits for Website (up to 2 Exhibits)	2		8				24										34
b. Property Owner Meeting Support																	
Prepare Materials for Meetings with Property Owners (up to 3 meetings)	8	10	12				30			4							64
Provide Property Owner Exhibits (up to 2 exhibits)	2		8				20										30
Attend Property Owner Meetings (up to 6 meetings)	12		12							12							36
c. Agency Coordination Meetings																	
Coordinate with Agencies and Consultants (up to 10 meetings)	20		20														40
Prepare Meeting Documents	10		40														50
Prepare Exhibit A Prep	10		40		100			30									180
HOURS SUB-TOTALS	66	10	160	0	100	0	74	30	0	36	0	0	0	0	0	0	476
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$22,770.00	$3,450.00	$32,800.00	$0.00	$15,000.00	$0.00	$14,060.00	$9,750.00	$0.00	$12,348.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$110,178.00
% DISTRIBUTION OF STAFFING	13.9%	2.1%	33.6%	0.0%	21.0%	0.0%	15.5%	6.3%	0.0%	7.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (3. Public Involvement)																	**$110,178.00**

4. Utility Coordination Support																	
a. Incorporate Utility Information	2		20		40												62
b. Utility Meetings	2		8		8												18
HOURS SUB-TOTALS	4	0	28	0	48	0	0	0	0	0	0	0	0	0	0	0	80
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$1,380.00	$0.00	$5,740.00	$0.00	$7,200.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14,320.00
% DISTRIBUTION OF STAFFING	0.8%	0.0%	5.9%	0.0%	10.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (4. Utility Coordination Support)																	**$14,320.00**

Prime Firm - HDR

TASK DESCRIPTION	Project Manager	Senior QC Reviewer	Project Engineer	Design Engineer (5-10 yrs)	Engineer in Training II	Senior GIS Technician	Senior CADD Tech	Senior Structural Engineer	Senior Project Engineer	Senior Env Project Manager	Senior Env Poject Planner	Env Scientist	Env Planner IV	Env Planner III	Env Planner I/II	Admin/Clerical	TOTAL LABOR HOURS & COSTS
6. ROW and Mapping																	
a. ROW Map		8															8
b. Parcel Acquisition Documents		8															8
c. Monument and ROW Staking		8															8
HOURS SUB-TOTALS	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$0.00	$8,280.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$8,280.00
% DISTRIBUTION OF STAFFING	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (6. ROW and Mapping)																	**$8,280.00**

7. Schematic Design and Development																	
a. Develop Ultimate Schematic																	
Design Criteria			24														24
Develop Ultimate Schematic																	
Roadway Plan Elements	8	4	80	80	40		180										392
Roadway Profile Elements	8	4	80	120	40		200										452
Preliminary Pedestrian Facilities				10	10		20										40
Preliminary Retaining Wall Design					60			20									80
Schematic P&P	24		40		40		80										184
3D Model and Cross Sections	8		80				200										288
Cost Estimates	8		24		40												72
Develop Abutment and Bent Locations (Three Bridges)	4				48			18									70
Develop Preliminary Bridge Quantities	4				20			10									34
Develop Preliminary Cost Estimates (Three Bridges)	4							4									8
Typical Section Geometry (Three Bridges)	2				16			6									24
Coordinate Bridge Geometry with Preliminary Hydraulic Analysis					20			12									32
Develop KMZ of Proposed Boring Locations	2				8			2									12
b. Address Ultimate Schematic Comments and Finalize Schematic	8		40		40		80										168
c. ICE Process	2	8	30	24	80												144
HOURS SUB-TOTALS	82	16	398	234	462	0	760	72	0	0	0	0	0	0	0	0	2024
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$28,290.00	$5,520.00	$81,590.00	$43,290.00	$69,300.00	$0.00	$144,400.00	$23,400.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$395,790.00
% DISTRIBUTION OF STAFFING	4.1%	0.8%	19.7%	11.6%	22.8%	0.0%	37.5%	3.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (7. Schematic Design and Development)																	**$395,790.00**

8. Schematic Drainage Study																	
a. Hydrologic/ Hydraulic Modeling																	
Review H&H models provided (assume 3 river models)			5	15	40												60
Develop hydraulic model for culvert crossing (assume 1 model)			5	20	40												65
Prepare H&H models for Ultimate Schematic		4	10	50	90												154
Prepare H&H models for Interim Schematic		2		20	20												42
b. County Floodplain Administrator Coordination																	
Coordinate with FPA (assume 2 meetings)			5	5	5												15
Submit draft schematic drainage report		4	5	10	20												39
Submit final schematic drainage report		2	5	8	16												31
c. Detention Needs Analysis																	
Coordination of detention analysis with subconsultant			15	15	5												35
Review dentetion analysis of subconsultant		8	10	15	5												38
d. Water Quality Needs Analysis																	
Coordination of WQ analysis with subconsultant			15	15	5												35
Review WQ analysis of subconsultant		8	10	15	5												38
e. Schematic Drainage Report																	
Prepare draft schematic drainage report		2	10	30	80												122
Prepare final schematic drainage report		2	5	15	30												52
HOURS SUB-TOTALS	0	32	100	233	361	0	0	0	0	0	0	0	0	0	0	0	726
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$0.00	$11,040.00	$20,500.00	$43,105.00	$54,150.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$128,795.00
% DISTRIBUTION OF STAFFING	0.0%	4.4%	13.8%	32.1%	49.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
SUBTOTAL (8. Drainage Study)																	**$128,795.00**

WILLIAMSON COUNTY
24RFSQ11 RM 620/SH 45 Extension to McNeil Road
(Robinson Ranch Road) Work Authorization No. 1

ATTACHMENT D
FEE SCHEDULE
HDR ENGINEERING, INC.

Prime Firm - HDR

TASK DESCRIPTION	Project Manager	Senior QC Reviewer	Project Engineer	Design Engineer (5-10 yrs)	Engineer in Training II	Senior GIS Technician	Senior CADD Tech	Senior Structural Engineer	Senior Project Engineer	Senior Env Project Manager	Senior Env Poject Planner	Env Scientist	Env Planner IV	Env Planner III	Env Planner I/II	Admin/Clerical	TOTAL LABOR HOURS & COSTS
9. Environmental Services																	
a. County Due Diligence																	
Prepare Draft and Final Environmental Due Diligence Report						4				6	18					4	32
b. TxDOT Environmental Clearance																	
Assist on Public Meeting (1)	4		20			60				16							100
Prepare Draft and Final Species Analysis Documentation						6				4		34					44
Prepare Draft and Final Hazmat ISA						4				4	6	32					46
d. Hazmat Site Assessment																	
Prepare Draft and Final Hazmat ESA						12				10	16	64				4	106
e. Section 404 Clean Water Act Compliance																	
Prepare Draft and Final Jurisdictional Waters Delineation Report						14				4		72				4	94
f. Endangered Species Act Compliance																	
Prepare Draft and Final Endangered Species Letter										6							6
g. Texas Antiquities Code Compliance																	
Prepare Texas Antiquities Permit Application and Scope of Work						12				2				10	26	4	54
Conduct Archeological Survey and Report						10				2			8	22	74	4	120
Coordination with Texas Historical Commission and Curation														4	10		14
HOURS SUB-TOTALS	4	0	20	0	0	122	0	0	0	54	40	202	8	36	110	20	616
CONTRACT RATE PER HOUR	$345.00	$345.00	$205.00	$185.00	$150.00	$148.00	$190.00	$325.00	$255.00	$343.00	$266.00	$144.00	$163.00	$138.00	$121.00	$98.00	
TOTAL LABOR COSTS	$1,380.00	$0.00	$4,100.00	$0.00	$0.00	$18,056.00	$0.00	$0.00	$0.00	$18,522.00	$10,640.00	$29,088.00	$1,304.00	$4,968.00	$13,310.00	$1,960.00	$103,328.00
% DISTRIBUTION OF STAFFING	0.6%	0.0%	3.2%	0.0%	0.0%	19.8%	0.0%	0.0%	0.0%	8.8%	6.5%	32.8%	1.3%	5.8%	17.9%	3.2%	
SUBTOTAL (9. Environmental Services)																	**$103,328.00**

Total Labor Hours	Project Manager	Senior QC Reviewer	Project Engineer	Design Engineer (5-10 yrs)	Engineer in Training II	Senior GIS Technician	Senior CADD Tech	Senior Structural Engineer	Senior Project Engineer	Senior Env Project Manager	Senior Env Poject Planner	Env Scientist	Env Planner IV	Env Planner III	Env Planner I/II	Admin/Clerical	TOTAL HOURS
1. Project Management	238	216	244	0	100	0	0	0	26	26	0	0	0	0	0	24	874
2. Route and Design Studies	18	2	42	26	12	20	20	0	24	0	0	0	0	0	0	0	164
3. Public Involvement	66	10	160	0	100	0	74	30	0	36	0	0	0	0	0	0	476
4. Utility Coordination Support	4	0	28	0	48	0	0	0	0	0	0	0	0	0	0	0	80
6. ROW and Mapping	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
7. Schematic Design and Development	82	16	398	234	462	0	760	72	0	0	0	0	0	0	0	0	2024
8. Schematic Drainage Study	0	32	100	233	361	0	0	0	0	0	0	0	0	0	0	0	726
9. Environmental Services	4	0	20	0	0	122	0	0	0	54	40	202	8	36	110	20	616
HOURS SUB-TOTALS	412	300	992	493	1083	142	854	102	50	116	40	202	8	36	110	44	4984
% DISTRIBUTION OF STAFFING	8.3%	6.0%	19.9%	9.9%	21.7%	2.8%	17.1%	2.0%	1.0%	2.3%	0.8%	4.1%	0.2%	0.7%	2.2%	0.9%	100.0%
TOTAL LABOR HOURS																	**4984.00**

Prime Firm - HDR

Total Labor Expenses																	**TOTAL COSTS**
1. Project Management	$82,110.00	$74,520.00	$50,020.00	$0.00	$15,000.00	$0.00	$0.00	$0.00	$6,630.00	$8,918.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,352.00	$239,550.00
2. Route and Design Studies	$6,210.00	$690.00	$8,610.00	$4,810.00	$1,800.00	$2,960.00	$3,800.00	$0.00	$6,120.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$35,000.00
3. Public Involvement	$22,770.00	$3,450.00	$32,800.00	$0.00	$15,000.00	$0.00	$14,060.00	$9,750.00	$0.00	$12,348.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$110,178.00
4. Utility Coordination Support	$1,380.00	$0.00	$5,740.00	$0.00	$7,200.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14,320.00
6. ROW and Mapping	$0.00	$8,280.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$8,280.00
7. Schematic Design and Development	$28,290.00	$5,520.00	$81,590.00	$43,290.00	$69,300.00	$0.00	$144,400.00	$23,400.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$395,790.00
8. Schematic Drainage Study	$0.00	$11,040.00	$20,500.00	$43,105.00	$54,150.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$128,795.00
9. Environmental Services	$1,380.00	$0.00	$4,100.00	$0.00	$0.00	$18,056.00	$0.00	$0.00	$0.00	$18,522.00	$10,640.00	$29,088.00	$1,304.00	$4,968.00	$13,310.00	$1,960.00	$103,328.00
HOURS SUB-TOTALS	$142,140.00	$103,500.00	$203,360.00	$91,205.00	$162,450.00	$21,016.00	$162,260.00	$33,150.00	$12,750.00	$39,788.00	$10,640.00	$29,088.00	$1,304.00	$4,968.00	$13,310.00	$4,312.00	$1,035,241.00
% DISTRIBUTION OF STAFFING	13.7%	10.0%	19.6%	8.8%	15.7%	2.0%	15.7%	3.2%	1.2%	3.8%	1.0%	2.8%	0.1%	0.5%	1.3%	0.4%	100.0%
TOTAL LABOR EXPENSES																	**$1,035,241.00**
DIRECT EXPENSES	**# OF UNITS**	**COST/UNIT**															
Mileage (per mile)	1000	$0.67															$670.00
Hotel (includes taxes)	4	$173.00															$692.00
Meals	8	$60.00															$480.00
GPS	32	$25.00															$800.00
Site File Registration	1	$100.00															$100.00
Rental Vehicle	4	$75.00															$300.00
Tube Counts: FR	1	$10,000.00															$10,000.00
CapMetro Application Fee	1	$750.00															$750.00
Hazardous Materials Regulatory Database Radius Report	1	$1,000.00															$1,000.00
SUBTOTAL DIRECT EXPENSES																	**$14,792.00**

SUMMARY	
TOTAL LABOR EXPENSES FOR PRIME ONLY	$1,035,241.00
DIRECT EXPENSES FOR PRIME ONLY	$14,792.00
TOTAL COSTS FOR MCGRAY (ROW & MAPPING AND SURVEYING)	$232,315.00
TOTAL COSTS FOR LJA (DRAINAGE)	$121,400.00
TOTAL COSTS FOR ROUND ROCK GEOPHYSICS (ENVIRONMENTAL)	$50,502.80
TOTAL COSTS FOR CAMBRIAN (ENVIRONMENTAL)	$67,820.00
GRAND TOTAL	$1,522,070.80

Subconsultant - McGray

TASK DESCRIPTION	Project Manager	Principal	2-Person Survey crew, with Vehicle and Data Collection	3-Person Survey crew, with Vehicle and Data Collection	GPS/RTK 2-Person Survey Crew, with Vehicle and Data Collection	GPS/RTK 3-Person Survey Crew, with Vehicle and Data Collection	Researcher	AutoCAD/ Survey Technician	Senior Technician	LIDAR Technician	Field Coordinator	RPLS	TOTAL LABOR HOURS & COSTS
5. Surveying													
a. Right of Entry													
Prepare and Mail Right of Entry Letters (Up to 5 properties)													0
b. Field Surveying													
Survey the Corridor	6	2	140	1	10	1			200	24	10		394
Aerial Flight/Extraction													
Locate Boreholes (Up to 20)	2				16			10	2		4		34
DTM of Proposed Corridor	4	6						30	50	16			106
Survey Control Sheets	6	2	40					20	60		6		134
HOURS SUB-TOTALS	18	10	180	1	26	1	0	60	312	40	20	0	668
CONTRACT RATE PER HOUR	$197.00	$227.00	$197.00	$239.00	$257.00	$299.00	$96.00	$108.00	$115.00	$117.00	$117.00	$173.00	
TOTAL LABOR COSTS	$3,546.00	$2,270.00	$35,460.00	$239.00	$6,682.00	$299.00	$0.00	$6,480.00	$35,880.00	$4,680.00	$2,340.00	$0.00	$97,876.00
% DISTRIBUTION OF STAFFING	2.7%	1.5%	26.9%	0.1%	3.9%	0.1%	0.0%	9.0%	46.7%	6.0%	3.0%	0.0%	
SUBTOTAL (5. Surveying)													**$97,876.00**

6. ROW and Mapping													
a. ROW Map													
Research Deed Records and Build Working Map	4						8	24	6			8	50
Preliminary ROW Map and Affected Property Owner List (DGN Only)	8		60	1				60	30		6	20	185
Final ROW Map and Affected Property Owner List (DGN Only)	10							80	40			20	150
b. Parcel Acquisition Documents													
Draft Parcel Acquisition Documents (5 parcels)	6							54	12			6	78
Final Parcel Acquisition Documents (5 parcels)	6						6	32	8			6	58
c. Monumentation and ROW Staking													
Set Monumentation (5 parcels)	2		60		1	1		12	6			2	84
Stake Proposed ROW (Up to 5 properties, one time only)	2		100					16	8			4	130
HOURS SUB-TOTALS	38	0	220	1	1	1	14	278	110	0	6	66	735
CONTRACT RATE PER HOUR	$197.00	$227.00	$197.00	$239.00	$257.00	$299.00	$96.00	$108.00	$115.00	$117.00	$117.00	$173.00	
TOTAL LABOR COSTS	$7,486.00	$0.00	$43,340.00	$239.00	$257.00	$299.00	$1,344.00	$30,024.00	$12,650.00	$0.00	$702.00	$11,418.00	$107,759.00
% DISTRIBUTION OF STAFFING	5.2%	0.0%	29.9%	0.1%	0.1%	0.1%	1.9%	37.8%	15.0%	0.0%	0.8%	9.0%	
SUBTOTAL (6. ROW and Mapping)													**$107,759.00**

DIRECT EXPENSES	**# OF UNITS**	**COST/UNIT**											
Ground Targets	12	$35.00											$420.00
Riegl VQ 1560I or 1560II LiDAR System	1	$25,000.00											$25,000.00
LiDAR Flight Crew Fixed Wing Aircraft (Includes Pilot and LiDAR Operator)	6	$210.00											$1,260.00
SUBTOTAL DIRECT EXPENSES													**$26,680.00**

SUMMARY	
TOTAL LABOR COSTS FOR McGray	$205,635.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR McGray	$26,680.00
GRAND TOTAL	$232,315.00

WILLIAMSON COUNTY
24RFSQ11 RM 620/SH 45 Extension to McNeil Road
(Robinson Ranch Road) Work Authorization No. 1

ATTACHMENT D
FEE SCHEDULE
HDR ENGINEERING, INC.

Subconsultant - LJA

TASK DESCRIPTION	Quality Manager	Senior Engineer (15+ yrs)	Project Engineer (10-15 yrs)	Design Engineer (5-10 yrs)	Senior Designer	Engineer-in-Training	TOTAL LABOR HOURS & COSTS
8. Schematic Drainage Study							
c. Impacts							0
Determine increases in peak flow rates	2	8	16	24		16	66
Model mitigation solutions including varying sizes, depths, outfall structures	4	16	24	32			76
Routing of hydrographs through basins in ex/prop/mitigated scenarios		4	8	16		8	36
Conceptual detention layouts and locations	2	2	8	8		24	44
							0
d. Detention Needs Analysis							0
Size and locate detention for interim and ultimate condition	2	4	8	24		16	54
Determine ROW needs for detention	2	2	8	4			16
Prepare detention portion of schematic drainage report	8	16	24	24	16	24	112
							0
e. Water Quality Needs Analysis							0
Develop schematic WQ calculations and removal requirements (interim/ultimate)	2	8	16	16			42
Develop schematic WQ plan for BMP's and associated ROW needs	2	16	24	40		24	106
Prepare Water Quality portion of schematic drainage report	6	8	16	16	16	16	78
HOURS SUB-TOTALS	30	84	152	204	32	128	630
CONTRACT RATE PER HOUR	$260.00	$240.00	$210.00	$180.00	$175.00	$150.00	
TOTAL LABOR COSTS	$7,800.00	$20,160.00	$31,920.00	$36,720.00	$5,600.00	$19,200.00	$121,400.00
% DISTRIBUTION OF STAFFING	4.8%	13.3%	24.1%	32.4%	5.1%	20.3%	
SUBTOTAL (10. Geotechnical Services)							**$121,400.00**

SUMMARY	
TOTAL LABOR COSTS FOR LJA	$121,400.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR LJA	$0.00
GRAND TOTAL	**$121,400.00**

Subconsultant - Cambrian

TASK DESCRIPTION	Project Manager	Senior Karst Geoscientist	Karst Geoscientist	Salamander Biologist	TOTAL LABOR HOURS & COSTS
9. Environmental Services and Documents					
a. County Due Diligence					
Studies and Documentation per WilCo Environmental Protocol					0
Prepare Draft Environmental Due Diligence Report					0
Prepare Final Environmental Due Diligence Report					0
b. TxDOT Environmental Clearance					
Update TxDOT ECOS					0
Utilize Environmental Compliance Toolkits					0
Coordinate with Historic Chairperson, TPWD, USFWS					0
Prepare Environmental Clearance Documentation					0
c. Data Collection and Field Reconnaissance					
Obtain and Update Publicly Available Information	88	80	80	40	288
Conduct and Prepare Regulatory Records Review	24			24	48
Conduct Field Reconnaissance	12			12	24
d. Hazmat Site Assessment					
Prepare Draft and Final Hazmat ESA					0
e. Section 404 Clean Water Act Compliance					
Conduct Site Visit					0
Delineate Wetland Boundaries and Prepare Jurisdictional Waters Delineation Report					0
f. Endangered Species Act Compliance					
Prepare Draft and Final Endangered Species Letter					0
g. Historical Site Compliance					
Prepare Draft and Final Historic Building Survey					0
h. Texas Antiquities Code Compliance					
Prepare Project Initiation Letter, Texas Antiquities Permit Application, and Scope of Work					0
Conduct Pedestrian Survey and Report					0
Coordination with Texas Historical Commission					0
HOURS SUB-TOTALS	124	80	80	76	360
CONTRACT RATE PER HOUR	$240.00	$240.00	$136.00	$105.00	
TOTAL LABOR COSTS	$29,760.00	$19,200.00	$10,880.00	$7,980.00	$67,820.00
% DISTRIBUTION OF STAFFING	34.4%	22.2%	22.2%	21.1%	
SUBTOTAL (9. Environmental Services and Documents)					**$67,820.00**

SUMMARY	
TOTAL LABOR COSTS FOR Cambrian	$67,820.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR Cambrian	$0.00
GRAND TOTAL	$67,820.00

WILLIAMSON COUNTY
Robinson Ranch Rd
Work Authorization No. 1

ATTACHMENT D
FEE SCHEDULE
HDR ENGINEERING, INC.

Subconsultant - Round Rock Geophysics, LLC

TASK DESCRIPTION	Principal/PhD (25+)	Field Geologist (0-5 yrs)	Scientist Technician (1-5 yrs)	TOTAL LABOR HOURS & COSTS
10. Environmental Services and Documents				
h. Phase 1-Preliminary	40	24	24	88
h. Phase 2-Detail	64	48	48	160
HOURS SUB-TOTALS	104	72	72	248
CONTRACT RATE PER HOUR	$243.10	$64.90	$58.30	
TOTAL LABOR COSTS	$25,282.40	$4,672.80	$4,197.60	$34,152.80
% DISTRIBUTION OF STAFFING	41.9%	29.0%	29.0%	
SUBTOTAL (9. Environmental Services and Documents)				**$34,152.80**

DIRECT EXPENSES	**UNIT**	**# OF UNITS**	**COST/UNIT**	
GPS RTK System (GNSS – includes all system accessories.)	day	8	$550.00	**$4,400.00**
Complete Ground Penetrating Radar System and acquisition software	day	8	$1,450.00	**$11,600.00**
Work Truck (mileage)	per mile	500	$0.70	**$350.00**
SUBTOTAL DIRECT EXPENSES				**$16,350.00**

SUMMARY	
TOTAL LABOR COSTS FOR Round Rock Geophysics, LLC	$34,152.80
NON-SALARY (OTHER DIRECT EXPENSES) FOR Round Rock Geophysics, LLC	$16,350.00
GRAND TOTAL	**$50,502.80**