



**COMMISSIONERS COURT
COMMUNICATION**

COURT ORDER NUMBER 145194

PAGE 1 OF 33

DATE: 5/6/2025

**SUBJECT: CONSIDERATION OF A PROFESSIONAL SERVICES AGREEMENT
WITH KIMLEY-HORN AND ASSOCIATES, INC. RELATED TO THE
BONDS RANCH ROAD IMPROVEMENT PROJECT**

***** CONSENT AGENDA *****

COMMISSIONERS COURT ACTION REQUESTED

It is requested that the Commissioners Court consider a Professional Services Agreement with Kimley-Horn and Associates, Inc. related to the Bonds Ranch Road improvement project.

BACKGROUND

On September 5, 2023, the Commissioners Court, through Court Order #141673, approved the programming of 2021 Transportation Bond Program funds from the Countywide Initiatives and Partnerships category for the Bonds Ranch Road corridor improvement project.

The third segment of Bonds Ranch Road, from East of Business 287 to the intersection with Wagley Robertson Road, is ready to proceed to the design phase. Staff reviewed the qualifications from RFQ F2025021, Professional Engineering and Planning Services, and requests the Commissioners Court consider a Professional Services Agreement with Kimley-Horn and Associates, Inc. for design services related to this project.

The Professional Services Agreement has been reviewed as to form by the Criminal District Attorney's Office.

FISCAL IMPACT

The fiscal impact to Tarrant County will be \$2,466,000. Funds are available in account 579061/47800-2025/6840100000 (Countywide Initiatives and Partnerships category).

SUBMITTED BY	Transportation Services	PREPARED BY:	Joseph Jackson
		APPROVED BY:	Scott Hall

PROFESSIONAL SERVICES AGREEMENT

This Professional Services Agreement (“Agreement”) by and between Tarrant County (County) and Kimley-Horn and Associates, Inc. (Consultant), located at 801 Cherry Street, Suite 1300, Unit 11, Fort Worth, Texas becomes effective on the date of approval in Tarrant County Commissioners Court.

SCOPE OF SERVICES

Consultant agrees to perform the services set forth in the Scope of Services attached as Attachment A in a timely and professional manner, consistent with industry and professional standards, and in accordance with all applicable laws and the terms of this Agreement. Consultant warrants that all engineering services to be performed under this contract will be performed by a licensed engineer or licensed engineers with the professional skill and care ordinarily provided by competent engineers practicing in Texas and under the same or similar circumstances and professional license and that such services will be performed as expeditiously as is prudent considering the ordinary professional skill and care of said engineer or engineers. If any services, functions or responsibilities not specifically described in this Attachment A are required for the proper performance and provision of these services, they shall be deemed to be included with the Attachment A.

ACCESSIBILITY OF DOCUMENTS

Consultant agrees that documents prepared by Consultant in the performance of the Scope of Services shown in Attachment A may be made available to the public, including land developers, upon request.

TERM AND RENEWAL OPTIONS

Upon approval of this contract by the Tarrant County Commissioners Court, Consultant is authorized to begin the provision of services as described in the attached Attachment A. Consultant agrees to complete the services requested by the County in accordance with the attached schedule.

PAYMENT AND INVOICING

Compensation to Consultant for the services described in the attached Attachment A shall not exceed \$2,466,000 as shown on Attachment B for the services under this Agreement, upon approval by the County.

Consultant is to advise the County of additional services that may be required to complete any services requested under this Agreement prior to those additional services being performed that are not part of this Agreement, and must obtain prior approval, in writing, by the County before those additional services are performed and invoiced.

- a. If in the execution of services, the County may request Consultant to remove a service, prior to Consultant’s performance of that service. Consultant agrees that the County will not be held responsible for costs associated with those services that were removed.

- b. Payments will be made monthly in arrears, on a net 30-day basis. The fee is to be inclusive of all travel costs.
- c. Invoices are to be detailed and reference the fees as shown in Attachment B. A summary of the work performed during the invoiced period should accompany the invoice submittal.
- d. Submit invoices to: Tarrant County Auditor's Office, Attention: Accounts Payable, 100 E. Weatherford St., Suite 506, Fort Worth, Texas 76196, phone: 817-884-1205, or email to: SAP-Invoices@tarrantcountytx.gov and jjackson@tarrantcountytx.gov. Invoices should reference the Purchase Order number.

COMPLIANCE WITH LAWS

1. In providing the services required by this Agreement, Consultant must observe and comply with all applicable federal, state, and local statutes, ordinances, rules, and regulations, including, without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and non-discrimination laws and regulations. Consultant shall be responsible for ensuring its compliance with any laws and regulations applicable to its business, including maintaining any necessary licenses and permits.

2. **Chapters 2271, 2252, and 2274 Texas Government Code Verification.**

(a) *Boycott of Israel Prohibited.* In compliance with Section [2271.001](#) et seq. of the Texas Government Code, Consultant verifies that neither it nor any of its affiliates currently boycott Israel and neither it nor any of its affiliates will boycott Israel during the term of this Agreement. "Boycott Israel" is defined in Section [808.001\(1\)](#) of the Texas Government Code.

(b) *Scrutinized Business Operations Prohibited.* In compliance with Section [2252.151](#) et seq. of the Texas Government Code, Consultant warrants and represents that: (1) neither Consultant nor any of its affiliates engages in scrutinized business operations in Sudan; (2) neither Consultant nor any of its affiliates engages in scrutinized business operations in Iran; and (3) neither Consultant nor any of its affiliates engages in scrutinized business operations with designated foreign terrorist organizations. "Scrutinized business operations in Sudan" is defined in Section [2270.0052](#) of the Texas Government Code. "Scrutinized business operations in Iran" is defined in Section [2270.0102](#) of the Texas Government Code. "Scrutinized business operations with designated foreign terrorist organizations" is defined in Section [2270.0152](#) of the Texas Government Code. Consultant further represents and warrants that neither Consultant nor any of its affiliates appears on any of the Texas Comptroller's [Scrutinized Companies Lists](#).

(c) *Boycott of Certain Energy Companies Prohibited.* In compliance with Section [2276.002](#) of the Texas Government Code (added by 87th Legislature, S.B. 13), Consultant verifies that neither it nor any of its affiliates currently boycott energy companies and neither it nor any of its affiliates will boycott energy companies during the term of this Agreement. "Boycott energy company" is defined in Section [809.001\(1\)](#) (added by 87th Legislature, S.B. 13) and means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company: (A) engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and does

not commit or pledge to meet environmental standards beyond applicable federal and state law; or (B) does business with a company described by subsection (A).

(d) *Discrimination against Firearm Entities or Firearm Trade Associations Prohibited.* In compliance with Section [2274.002](#) of the Texas Government Code (added by 87th Legislature, S.B. 19), Consultant verifies that neither it nor any of its affiliates have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and neither it nor any of its affiliates will discriminate during the term of the Agreement against a firearm entity or firearm trade association. "Discriminate against a firearm entity or firearm trade association" is defined in Section [2274.001\(3\)](#) (added by 87th Legislature, S.B. 19) and means, with respect to the entity or association, to: (i) refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; (ii) refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or (iii) terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; the term *does not include*: (i) the established policies of a merchant, retail seller, or platform that restrict or prohibit the listing or selling of ammunition, firearms, or firearm accessories; and (ii) a company's refusal to engage in the trade of any goods or services, decision to refrain from continuing an existing business relationship, or decision to terminate an existing business relationship: (aa) to comply with federal, state, or local law, policy, or regulations or a directive by a regulatory agency; or (bb) for any traditional business reason that is specific to the customer or potential customer and not based solely on an entity's or association's status as a firearm entity or firearm trade association.

3. **Legal Compliance.** Each party shall comply with the provisions of all applicable laws relating to the performance of its obligations under this Agreement. Each party is responsible for obtaining its own legal advice concerning its compliance with applicable laws.

4. **Prohibition of Political Activity.** None of the funds provided under this Agreement shall be used for influencing the outcome of any election, or the passage or defeat of any legislative measure. This prohibition shall not be construed to prevent the Parties' compliance with the Texas Public Information Act. No funds provided under this Agreement may be used directly or indirectly to hire employees or in any other way fund or support candidates for the legislative, executive, or judicial branches of government, the State of Texas, or the government of the United States. None of the funds provided under this Agreement shall be paid to any official or employee who violates any of the provisions of this Section.

5. **Form 1295 Certificate of Interested Parties.** Consultant acknowledges and agrees that it has fully, accurately, and completely disclosed all interested parties in the Form 1295 electronically filed with the Texas Ethics Commission, at <https://www.ethics.state.tx.us/filinginfo/1295/>, as required by law, and that the attached signed copy attached as **Exhibit G** is a full and true copy of said filed form.

6. **Conflict of Interest.** Consultant assures that it is in compliance with the requirements of [Chapter 176](#) of the Texas Local Government Code and has filed or will promptly file the Conflict of Interest Questionnaire (CIQ Form) with the Tarrant County Clerk no later than

the 7th business day after the date Consultant becomes aware of facts that require the form to be filed. Completed forms are to be sent to:

Tarrant County Transportation Services
Attn: Joseph Jackson, County Engineer
100 East Weatherford Street, Room 401
Fort Worth, Texas 76196

INSURANCE REQUIREMENTS

Consultant shall take out, pay for and maintain always during the prosecution of the work under the contract, the following forms of insurance, in carriers acceptable to and approved by Tarrant County:

- a. Worker's Compensation/Employer's Liability
 1. Worker's Compensation – statutory
 2. Employer's Liability - \$500,000
- b. Commercial General Liability:
 1. Bodily injury/Personal injury/Property damage - \$1,000,000 per occurrence/\$2,000,000 aggregate
- c. Auto Liability:
 1. Combined Single Limit (CSL) - \$500,000 per occurrence
- d. Contractual Liability – same limits as above
- e. Professional Liability Insurance - \$1,000,000 each claim with minimum \$2,000,000 aggregate

FINANCIAL RESPONSIBILITY

Consultant is responsible for its incurred expenses in performing this contract unless otherwise noted. To the extent permitted by the Constitution and the laws of the State of Texas, Consultant indemnifies and holds harmless the County against any and all claims, lawsuits, settlements, judgments, costs, penalties and expenses, including attorney's fees, for damage caused by or resulting from an act of negligence, intentional tort, intellectual property infringement, or failure to pay a subcontractor or supplier committed by the Consultant, its agent, or another entity over which the Consultant exercises control.

AGENCY-INDEPENDENT CONTRACTOR

Neither Consultant nor any employee thereof is an agent of the County and neither the County nor any employee thereof is an agent of Consultant. This agreement does not and shall not be construed to entitle either party or any of their representative employees, if applicable, to any benefits, privilege, or other amenities of employment of the other part.

ASSIGNMENT

Neither party may assign this contract.

THIRD PARTY BENEFICIARY EXCLUDED

This party does not incur to the benefit of any specific third party. The parties to this contract do not consent to the waiver of sovereign or government immunity under Texas state or federal law to the extent either party may have that immunity under law.

ENTIRE AGREEMENT

The Contract documents consist of the following:

- This Agreement
- Request for Qualifications F2025021 Bid Documents and Consultant Response
- Consultant Proposal
- Any exhibits attached hereto, conditions of the contract (special, supplementary and other conditions), all addenda issued prior to execution of this Agreement and all modifications issued subsequent thereto.

To the extent of an ambiguity among the various documents, the Request for Qualifications F2025021 will prevail. These documents collectively form the Contract, and all are fully a part of the Contract as if attached to this Agreement or repeated herein.

This Agreement may not be modified, altered, changed or amended in any respect, unless in writing and signed by both parties. For avoidance of doubt, this Agreement may not be modified orally.

The law of the State of Texas governs this contract. Venue for any action regarding this contract must be in the district courts of Tarrant County, Texas.

This agreement is effective upon the date of approval in Tarrant County Commissioners Court.

TERMINATION

Either party may terminate this contract by:

- a. Providing written notice to the other party at least thirty (30) days prior to the date of termination;
- b. Providing in the written notice the date of termination; and
- c. Sending the written notice by certified mail return receipt requested to the party at its address.

EXECUTION OF AGREEMENT

This Agreement may be executed in separate or multiple counterparts. All of such counterparts shall be deemed to be one and the same Agreement, but only one copy with evidence of signatures shall be required for proof of this Agreement. The exchange of copies of this agreement and of signature pages by electronic transmission shall constitute effective execution and delivery of this agreement as to the parties and may be used in lieu of the original agreement for all purposes. Signatures of the parties transmitted or executed electronically shall be deemed to be their original signatures for any purpose whatsoever.

NOTICES

Tarrant County

Joseph Jackson, P.E., CFM
Tarrant County Transportation Services
100 E. Weatherford, Suite 401
Fort Worth, Texas 76196

Kimley-Horn and Associates, Inc.

Dana Shumard, P.E.
801 Cherry Street, Suite 1300
Unit 11
Fort Worth, Texas 76102

TARRANT COUNTY

KIMLEY-HORN AND ASSOCIATES, INC.



Tim O'Hare
County Judge

Douglas Arnold
Contract Specialist

REVIEWED AS TO FORM:

Criminal District Attorney's Office*

*By law, the Criminal District Attorney's Office may only advise or approve contracts or legal documents on behalf of its clients. It may not advise or approve a contract or legal document on behalf of other parties. Our review of this document was conducted solely from the legal perspective of our client. Our approval of this document was offered solely for the benefit of our client. Other parties should not rely on this approval, and should seek review and approval by their own respective attorney(s).

CERTIFICATION OF AVAILABLE FUNDS IN THE AMOUNT OF \$2,466,000:

Auditor's Office



ATTACHMENT "A"

Scope for Engineering Design Related Services for Bonds Ranch Road Segment 3 (from Aviator Drive to Wagley Robertson Road)

The scope set forth herein defines the work to be performed by the CONSULTANT in completing the project. Both the COUNTY and CONSULTANT have attempted to clearly define the work to be performed and address the needs of the Project.

OBJECTIVE

Complete construction plans for Bonds Ranch Road from Aviator Drive to Wagley Robertson Road. The project involves the reconstruction of the existing two-lane Bonds Ranch Road to a four-lane Neighborhood Connector. The typical section of Bonds Ranch Road will be in accordance with the current City of Fort Worth MTP.

The project will include a traffic study to determine the intersection control required at the Bonds Ranch Road and Willow Springs Road intersection. Other major scope items for the project consists of storm drain improvements including one (1) major creek crossing at Big Fossil Creek and franchise utility coordination.

The scope will also consist of project management, data collection, topographic survey, subsurface utility engineering, geotechnical investigation, right-of-way documentation, permitting, conceptual, preliminary and final design plans for roadway, environmental permitting and opinion of probable construction costs.

DEFINITIONS

For the purpose of this document the following definitions apply: COUNTY shall be defined as Tarrant County and CONSULTANT shall be defined as Kimley-Horn and Associates, Inc.

WORK TO BE PERFORMED

- Task 1. Design Management
- Task 2. Conceptual Design (30%)
- Task 3. Preliminary Design (60%)
- Task 4. Final Design (90% and 100%)
- Task 5. ROW / Easement Services
- Task 6. Survey and Subsurface Utility Engineering Services
- Task 7. Franchise Utility Coordination
- Task 8. Permitting



TASK 1. DESIGN MANAGEMENT.

1.1. Managing the Team:

- Lead, manage and direct design team activities
- Ensure Quality Control/ Quality Assurance (QC/QA) is practiced in performance of the work.
- Communicate internally among team members
- Task and allocate team resources
- Conduct and document design team meetings
- Attend a pre-design project kickoff meeting with internal staff to discuss scope, schedule and roles.

1.2. Communications and Reporting:

- Attend a pre-design project kickoff/charter meeting with COUNTY staff to confirm and clarify scope, understand COUNTY objectives, and ensure economical and functional designs that meet COUNTY and City of Fort Worth (CoFW) requirements
- Conduct and document monthly project update meetings with COUNTY project manager.
- Attend monthly Bonds Ranch Road Planning coordination meetings with NCTCOG, TxDOT, CoFW, and the CLIENT.
- Conduct and document review meetings with the COUNTY and CoFW at the end of each design phase.
- Prepare for and conduct up to eight (8) coordination meetings with various departments of City of Fort Worth such as Transportation Management, Planning, Stormwater, and Water Department.
- Prepare invoices and submit monthly to the COUNTY.
- Prepare and submit monthly progress reports to the COUNTY.
- Prepare and submit baseline Project Schedule initially, and Project Schedule updates as needed

1.3. Constructability Review

- Prior to the 60% submittal, CONSULTANT shall schedule and attend a project site visit with the COUNTY's Project Manager and construction personnel to walk the project. The CONSULTANT shall summarize the COUNTY's comments from the field visit and submit this information to the COUNTY in writing.

1.4. Public Involvement

- After the preliminary plans have been reviewed and approved by the COUNTY, the CONSULTANT will prepare project exhibits and attend one (1) public meeting



to help explain the proposed project to residents. The COUNTY will select a suitable location, time and date.

- During the final design phase, the CONSULTANT will prepare project exhibits and attend one (1) public meeting to help explain the proposed project to residents. The COUNTY will select a suitable location, time and date.
- CONSULTANT will prepare for and conduct a planning meeting with the COUNTY for each public meeting.
- CONSULTANT will prepare for and conduct a follow-up/ debrief meeting with the COUNTY for each public meeting.

ASSUMPTIONS

- One (1) kickoff meeting
- One (1) constructability review meeting during design
- Two (2) public meetings
- Four (4) project schedule updates will be prepared
- Four (4) plan review meetings
- Eight (8) coordination meeting with City of Fort Worth
- All submittals to the CLIENT will be Quality checked prior to submission
- Project design phase is anticipated to take twelve (12) months
- Twelve (12) monthly updates of Project Status Reports

DELIVERABLES

- A. Meeting summaries with action items
- B. QC/QA Documentation
- C. Baseline design schedule
- D. Monthly Project Status Reports
- E. Monthly Invoices
- F. Public meeting exhibits and boards



TASK 2. CONCEPTUAL DESIGN (30 PERCENT).

The Conceptual Design shall be submitted to COUNTY per the approved Project Schedule.

The purpose of the conceptual design is for the CONSULTANT to identify, develop, communicate through the defined deliverables, and recommend the design concept that successfully addresses the design problem, and to obtain the COUNTY's endorsement of this concept.

CONSULTANT will develop the conceptual design of the infrastructure as follows:

2.1. Data Collection

- In addition to data obtained from the COUNTY, CONSULTANT will research and make efforts to obtain pertinent information to aid in coordination of the proposed improvements with any planned future improvements that may influence the project. CONSULTANT will also identify and seek to obtain data for existing conditions that may impact the project including utilities, agencies (TxDOT and railroads), City of Fort Worth Master Plans, and property ownership as available from the Tax Assessor's office.
- City of Fort Worth shall provide traffic impact analysis for adjacent developments as available.
- Traffic Data Collection
 - 12 hour turning movement counts at the three (3) intersections of Bonds Ranch and Willow Springs Road, Van Zandt Gate Lane, and Thatcher Road.

2.2. Subsurface Utility Engineering

- Provide Subsurface Utility Engineering (SUE) per **Task 6**.

2.3. Utility Clearance

- CONSULTANT will develop the design of City facilities to avoid or minimize conflicts with existing utilities, and where known and possible consider potential future utilities in designs. Where conflicts cannot be avoided, coordination of Utility Conflicts will begin at the Conceptual Design phase.
- CONSULTANT will provide plans and coordinate with utility owner related to the relocation efforts of franchise utilities that remain in conflict with the proposed construction per **Task 7**.

2.4. Geotechnical Investigation/Pavement Design

- Soil investigations, including field and laboratory tests, borings, related engineering analysis and recommendations for determining soil conditions will be made. In addition to the above investigations, borings and appropriate field and laboratory analysis will be made at reasonable intervals along the project alignment for the Contractor's use in determining soil conditions for preparing bids and a Trench Safety Plan.
- The CONSULTANT shall prepare a detailed geotechnical engineering study and pavement design in conformance with the City of Fort Worth Pavement Design



Standards Manual, 2015. The study shall include recommendations regarding utility trenching and identify existing groundwater elevation at each boring.

2.5. Traffic Study

- The CONSULTANT will evaluate Bonds Ranch Road from the Aviator Drive to Wagley Robertson Road for signal warrants and intersection capacity analysis at the following three (3) intersections:
 - Bonds Ranch Road and Willow Springs Road
 - Bonds Ranch Road and Van Zandt Gate Lane
 - Bonds Ranch Road and Thatcher Road
- for the following scenarios during the weekday AM and PM peak periods:
 - Existing Year (2025) Current Conditions
 - Existing Year (2025) Traffic Signal Conditions
 - Buildout Year (2030) Traffic Signal Conditions
 - Horizon Year (2040) Traffic Signal Conditions
- The CONSULTANT will use the ITE Trip Generation Manual, historic volumes, and adjacent development Traffic Impact Analysis to develop horizon year projected traffic conditions.
- Technical Memorandum
 - CONSULTANT will summarize the findings from Tasks 2.5 for COUNTY and CoFW review. This memorandum will consist of level of service comparisons for each intersection's alternative, average delay per vehicle for each approach, and total delay for each intersection alternative studied. The memorandum will include subsequent conclusions and recommendations based on the analytical data.

2.6. The Conceptual Design Package shall include the following:

- Preliminary cover and index of sheets including project limits, area location map and beginning and end station limits.
- Prepare right-of-way strip map.
- Existing and Proposed typical sections of the roadway to be constructed along with proposed typical sections which outline the proposed improvements. Typical sections shall include existing and proposed ROW, existing and proposed lane widths and direction arrows, existing and proposed curbs, sidewalks, and retaining walls.
- Conceptual plan and profile sheets showing existing and proposed horizontal roadway alignments, existing and proposed ROW, existing and proposed sidewalks and driveways, proposed lane dimensions and lane arrows, existing drainage structures, CoFW owned and franchise utilities, and existing roadway vertical alignments (profiles).



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- CONSULTANT will delineate the watershed based on contour data and field verification and document existing street, right-of-way and storm drain capacities for the subject site. A drainage area map will be drawn at maximum 1" = 200' scale from available 2-foot contour data with the contours labeled. Data source and year will be provided by the City of Fort Worth. Calculations regarding street and right-of-way capacities and design discharges (5-year and 100-year frequencies) at selected critical locations will be provided. Other frequencies as required by iSWM criteria may be appropriate for outfalls and sensitive locations. Capacities of existing storm drain will be calculated and shown. All calculations shall conform to City of Fort Worth criteria delineated in the City of Fort Worth's current iSWM Criteria Manual for Site Development and Construction. All locations in the project area where 100-year runoff exceeds available storm drain and right-of-way capacities shall be clearly identified. The CONSULTANT's responsibility includes recommendations for improvements of the existing system as deemed reasonable and consistent with City of Fort Worth standards.
 - Conceptual storm drain layout sheets showing location and size of all inlets, manholes, junction boxes, culverts and piping.
 - Conceptual storm drain calculations for inlet design and hydraulic design of the storm drain network.
 - Identify adjustments required, using the conceptual profile, for existing 36" City of Fort Worth water line including air release valves, blow-off valves and butterfly valves.
 - Documentation of key design decisions.
 - Estimates of probable construction cost.

ASSUMPTIONS

- Intersection capacity analysis will be completed with SYNCHRO.
- Traffic technical memorandum assumes up to two (2) revisions to be made to each report based on COUNTY and CoFW comments.
- Traffic technical memorandum assumes two (2) Review Meetings with the COUNTY and CoFW.
- All storm water calculations and design shall conform to the City of Fort Worth's current iSWM Criteria Manual for Site Development and Construction.
- PDF files created from design CAD drawings will be provided to the COUNTY.

DELIVERABLES

- A. Geotechnical Report per **Task 2.4**
- B. Traffic Engineering Study per **Task 2.5**
- C. Conceptual Design Package (Electronic)
- D. Opinion of Probable Construction Cost



TASK 3. PRELIMINARY DESIGN (60 PERCENT).

Preliminary plans and specifications shall be submitted to COUNTY per the approved Project Schedule.

CONSULTANT will develop the preliminary design of the infrastructure as follows:

3.1. The Preliminary Design Drawings and Specifications shall include the following:

- Address comments from the COUNTY and CoFW. Prepare comment response form.
- Preliminary cover and index of sheets including project limits, area location map and beginning and end station limits.
- General Notes
- Update right-of-way strip map and project easement layout sheets.
- SUE Plan sheets sealed by a licensed professional engineer registered in the State of Texas.
- A Project Control Sheet, showing all Control Points, used or set while gathering data. Generally, on a scale of not less than 1:400. The following information shall be indicated for each Control Point: Identified (existing City of Fort Worth Monument #8901, PK Nail, 5/8" Iron Rod); X, Y and Z Coordinates, in an identified coordinate system, and a referred bearing base. Z coordinate on City of Fort Worth Datum only; descriptive location (i.e. set in the centerline of the inlet in the South curb line of North Side Drive at the East end of radius at the Southeast corner of North Side Drive and North Main Street).
- Updated existing and proposed typical section sheets.
- Traffic Control Plans - in accordance with the latest edition of the Texas Manual on Uniform Traffic Control Devices.
 - Develop suggested sequence of construction narrative and overall phasing plan.
 - Prepare phasing layout sheets as needed including detour plans and typical sections.
 - Prepare traffic control details to clarify intent of design.
 - Compile applicable TxDOT standard details.
- Removal plan sheets.
- Updated roadway plan and profile sheets displaying station and coordinate data for all horizontal alignment P.C.'s, P.T.'s, P.I.'s; station and elevation data of all vertical profile P.C.'s, P.T.'s, P.I.'s, low points, and high points; lengths of vertical curves, grades, K values, e, and vertical clearances where required.
- Update transition on western end as necessary based on coordination for Bonds Ranch Road Segment 2 design.
- Side street and driveway plan and profile sheets



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- Update design based on adjacent development plans. Plan updates to include median opening modifications, driveway connections, shared use path and grading modifications.
 - Retaining walls (if necessary)
 - Station equations relating utilities to paving, when appropriate.
 - Jointing plan
 - Preliminary roadway details to include curbs, curb expansion joints, driveways, sidewalks, pavement, streetlights, traffic signals and all applicable utility details.
 - Preliminary cross sections.
 - Preliminary signing, and pavement marking.
 - Illumination layouts.
 - Photometric analysis and exhibits for illumination layout.
 - Traffic Signal layout for Bonds Ranch Road and Willow Springs Road intersection.
 - Intersection layout sheets including ROW lines, horizontal alignments, utilities, curbs, sidewalks, driveways, and lane dimensions and arrows
 - Update existing and proposed drainage area maps
 - Storm drain layout sheets showing location and size of all inlets, manholes, junction boxes, culverts and piping to include storm drain profiles showing existing and proposed flow lines, flows, lengths and slopes of pipe, top of ground profile over pipe and connections to existing or proposed storm sewer systems.
 - Determine outfall grading requirements and provide plans and details for channel protection
 - Provide plan sheets and details to construct storm sewer outfalls
 - Update storm drain calculations for inlet design and hydraulic design of the storm drain network.
 - Minor utility adjustments such as manholes, water valves and fire hydrants. No water line or sanitary sewer relocations are anticipated.
 - Major utility adjustments for the existing 36" City of Fort Worth water line. This scope anticipates designing adjustments for up to four air release valves, three butterfly valves and one blow-off valve. Structural design in anticipated for the butterfly valves only.
 - Documentation of key design decisions.

3.2. Drainage/ Flood Study as described in **Task 8**

3.3. Estimate of probable construction cost (OPCC).



ASSUMPTIONS

- CONSULTANT shall not proceed with Final Design activities without written approval by the COUNTY of the Preliminary Design plans.

DELIVERABLES

- A. Preliminary Design drawings and specifications
- B. Opinion of Probable Construction Cost
- C. Drainage/ Flood Study in **Task 8**
- D. Community Meeting exhibits

TASK 4. FINAL DESIGN (90 PERCENT) AND FINAL CONSTRUCTION DOCUMENTS. (100 PERCENT).

Upon approval of the Preliminary plans, CONSULTANT will prepare construction plans as follows:

- 4.1. The Final Design Drawings and Specifications shall include the following:
 - Final draft construction plans (90%) and Project Manual will be submitted to COUNTY per the approved Project Schedule.
 - Update transition on western end as necessary based on coordination for Bonds Ranch Road Segment 2 design.
 - Provide Utility Clearance per **Task 7**.
 - Following a 90% construction plan review meeting with the CITY, the CONSULTANT will submit Final Plans (100%) to the CITY per the approved Project Schedule. Each plan sheet will be stamped, dated, and signed by the CONSULTANT registered in State of Texas.
 - Drainage Study checklist in accordance with the current City of Fort Worth *iSWM Criteria Manual for Site Development and Construction*.
 - A Quantity Summary page will be included in both the 90% and 100% design plans.
 - The CONSULTANT will submit an estimate of probable construction cost with both the 90% and 100% design packages.

ASSUMPTIONS

- Drawings and specifications will be delivered electronically.

DELIVERABLES

- A. 90% construction plans and specifications
- B. Drainage/ Flood Study



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- C. Floodplain Development Permit
 - D. Final construction plans and specifications
 - E. Estimates of probable construction costs including summaries of bid items and quantities.
 - F. Digital cover sheet in PDF format for the signatures of authorized COUNTY officials.

TASK 5. ROW/EASEMENT SERVICES.

CONSULTANT will support and perform activities related to ROW and land as outlined below, per scoping direction and guidance from the COUNTY's Project Manager:

5.1. Right-of-Way Research

- The CONSULTANT shall determine rights-of-way and easement needs for construction of the project. Required temporary and permanent easements will be identified based on available information and recommendations will be made for approval by the COUNTY.

5.2. Right-of-Way/Easement Preparation and Submittal.

- The CONSULTANT shall prepare documents to be used to obtain right-of-way and permanent and/or temporary easements required to construct the improvements.
- The CONSULTANT shall prepare a ROW and Easement parcel reference map showing and designating all land interests for project. The map shall be revised as necessary throughout the land acquisition process.

ASSUMPTIONS

- Right-of-Way research includes review of property/right-of-way records based on current internet-based Tarrant Appraisal District (TAD) information available at the start of the project and available on-ground property information (i.e. iron rods, fences, stakes, etc.). It does not include effort for chain of title research, parent track research, additional research for easements not included in the TAD records, right-of-way takings, easement vacations and abandonments, right-of-way vacations, and street closures.

DELIVERABLES

- A. Easement exhibits and meets and bounds provided on COUNTY forms.
- B. ROW and Easement parcel map
- C. Temporary Right of Entry cover letters
- D. Temporary Right of Entry documents



TASK 6. SURVEY AND SUBSURFACE UTILITY ENGINEERING SERVICES.

CONSULTANT will provide survey support as follows.

6.1. Design Survey

- CONSULTANT will perform field surveys to collect horizontal and vertical elevations and other information needed by CONSULTANT in design and preparation of plans for the project. Information gathered during the survey shall include topographic data, elevations of all sanitary and adjacent storm sewers, rim/invert elevations, location of buried utilities, structures, trees (measure caliper, identify overall canopy, and have qualified arborist identify species of trees), and other features relevant to the final plan sheets. Existing drainage at intersections will be verified by field surveys. Spot elevations will be shown on intersection layouts with cross slope to fit intersecting grade lines.
- The minimum survey information to be provided on the plans shall include the following:
 - A Project Control Sheet, showing ALL Control Points, used or set while gathering data. Generally, on a scale of not less than 1:400:
 - The following information about each Control Point;
 - Identified (Existing. City of Fort Worth Monument #8901, PK Nail, 5/8" Iron Rod)
 - X, Y and Z Coordinates, in an identified coordinate system, and a referred bearing base. Z coordinate on City of Fort Worth Datum only.
 - Descriptive Location (Ex. Set in the centerline of the inlet in the South curb line of North Side Drive at the East end of radius at the Southeast corner of North Side Drive and North Main Street).
 - Coordinates on all P.C.'s, P.T.'s, P.I.'s, Manholes, Valves, etc., in the same coordinate system, as the Control.
 - No less than two horizontal benchmarks, per line or location.
 - Bearings given on all proposed centerlines, or baselines.
 - Station equations relating utilities to paving, when appropriate.

6.2. Subsurface Utility Engineering

Provide Subsurface Utility Engineering (SUE) to Quality Level *D*, *C*, *B*, and *A*, as described below. The SUE shall be performed in accordance with CI/ASCE 38-02.

Quality Level D

- Conduct appropriate investigations (e.g., owner records, COUNTY/ City of Fort Worth records, personal interviews, visual inspections, etc.), to help identify utility owners that may have facilities within the project limits or that may be affected by the project.
- Collect applicable records (e.g., utility owner base maps, "as built" or record drawings, permit records, field notes, geographic information system data, oral



histories, etc.) on the existence and approximate location of existing involved utilities.

- Review records for: evidence or indication of additional available records; duplicate or conflicting information; need for clarification.
- Develop SUE plan sheets and transfer information on all involved utilities to appropriate design plan sheets, electronic files, and/or other documents as required. Exercise professional judgment to resolve conflicting information. For information depicted, indicate utility type and ownership; date of depiction; quality level(s); end points of any utility data; line status (e.g., active, abandoned, out of service); line size and condition; number of jointly buried cables; and encasement.

Quality Level C (includes tasks as described for Quality Level D)

- Identify surface features, from project topographic data and from field observations, which are surface appurtenances of subsurface utilities.
- Include survey and correlation of aerial or ground-mounted utility facilities in Quality Level C tasks.
- Survey surface features of subsurface utility facilities or systems, if such features have not already been surveyed by a professional surveyor. If previously surveyed, check survey data for accuracy and completeness.
- The survey shall also include (in addition to subsurface utility features visible at the ground surface): determination of invert elevations of any manholes and vaults; sketches showing interior dimensions and line connections of such manholes and vaults; any surface markings denoting subsurface utilities, furnished by utility owners for design purposes.
- Exercise professional judgment to correlate data from various sources, and to resolve conflicting information.
- Update (or prepare) plan sheets, electronic files, and/or other documents to reflect the integration of Quality Level D and Quality Level C information.
- Recommend follow-up investigations (e.g., additional surveys, consultation with utility owners, etc.) as may be needed to further resolve discrepancies.
- Provide Quality Level C to identify overhead utilities on the project and provide the overhead utility information on the SUE plan sheets.

Level B (includes tasks as described for Quality Level C)

- Select and apply appropriate surface geophysical method(s) to search for and detect subsurface utilities within the project limits, and/or to trace a particular utility line or system.
- Based on an interpretation of data, mark the indications of utilities on the ground surface for subsequent survey. Utilize paint or other method acceptable for marking of lines.



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- Unless otherwise directed, mark centerline of single-conduit lines, and outside edges of multi-conduit systems.
 - Resolve differences between designated utilities and utility records and surveyed appurtenances.
 - Recommend additional measures to resolve differences if they still exist. Recommendations may include additional or different surface geophysical methods, exploratory excavation, or upgrade to Quality Level A data.
 - As an alternative to the physical marking of lines, the CONSULTANT may, with COUNTY's approval, utilize other means of data collection, storage, retrieval, and reduction, that enables the correlation of surface geophysical data to the project's survey control.

Level A

- Expose and locate utilities at specific locations where conflicts may occur.
- Tie horizontal and vertical location of utility to survey control.
- Provide utility size and configuration.
- Provide paving thickness and type, where applicable.
- Provide general soil type and site conditions and such other pertinent information as is reasonably ascertainable from each test hole site.

ASSUMPTIONS

- Prior to design, to supplement the design survey
- Up to fifteen (15) Level A test holes are included
- 50,000 LF of Level B/C/D (Design SUE)

DELIVERABLES

- A. Drawing of the project layout with dimensions and coordinate list.
- B. SUE plan drawings sealed by a professional engineer registered in the State of Texas.



TASK 7. FRANCHISE UTILITY COORDINATION.

7.1. Franchise Utility Coordination

- The CONSULTANT will consult with the CITY's Transportation and Public Works Department, Water Department, and other CITY departments, public utilities, private utilities, and government agencies to determine the approximate location of above and underground utilities, and other facilities (current and future) that have an impact or influence on the project.
- The CONSULTANT will schedule a kickoff meeting with all known franchise utility companies after the conceptual submittal to begin utility coordination process.
- The CONSULTANT will prepare conflict analysis matrix and provide a PDF set of plans with the utility conflicts highlighted and provide to utility companies.
- The CONSULTANT will meet with utility companies to review conflict analysis. The CONSULTANT will update plans to avoid conflicts where possible.
- The CONSULTANT will coordinate with franchise utility companies to obtain relocation schedule and work plan.
- The CONSULTANT will contact franchise utility companies on a monthly basis to obtain progress report. Update franchise utility status report each month.
- The CONSULTANT will host individual meetings with franchise utility companies as needed to coordinate the design.
- The CONSULTANT will coordinate with gas companies. Gas line coordination include meetings, communications and plan review with Gas Companies that have gas lines within the city right-of-way or in easements adjacent to the city right-of-way

ASSUMPTIONS

- One (1) kickoff meeting is assumed
- Four (4) Conflict Analysis review meetings
- Up to twelve (12) Progress Coordination Meetings are assumed
- Up to twelve (12) individual meetings are assumed
- 400 hours are assumed for **Task 7.**

DELIVERABLES

- A. Meeting Agendas and Notes
- B. Schedule and Progress Reports
- C. Plan Review Comments
- D. Utility conflict matrix



TASK 8 PERMITTING.

CONSULTANT will provide permitting support for the COUNTY to obtain any and all agreements and/or permits normally required for a project of this size and type, as follows:

8.1. Texas Department of Licensing and Regulation (TDLR)

- CONSULTANT is responsible for providing plans that are in compliance with TDLR requirements.
- Submit construction documents to the TDLR
- Completing all TDLR forms/applications necessary
- Obtain the Notice of Substantial Compliance from the TDLR
- Request an inspection from TDLR or a TDLR locally approved Registered Accessibility Specialist no later than 30 calendar days after construction substantial completion. Advise the COUNTY in writing of the results of the inspection.
- Responding to agency comments and requests
- All costs associated with TDLR plan review and inspections are to be paid by the CONSULTANT during the course of the project.

8.2. Storm Water Pollution Prevention Plan

- For projects that disturb an area greater than one (1) acre, the Contractor will be responsible for preparing and submitting the Storm Water Pollution Prevention Plan (SWPPP) with appropriate regulatory agencies. The CONSULTANT will prepare the iSWM Construction Plan according to the current *City of Fort Worth iSWM Criteria Manual for Site Development and Construction* which will be incorporated into the SWPPP by the contractor.

8.3. Environmental Services

- Waters of the United States delineation
 - Delineate the jurisdictional limits of the streams based on 33 CFR 328.3[e] and delineate the jurisdictional limits of any wetlands based on the 1987 USACE Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0), and any current Regulatory Guidance Letters. The boundaries of all these water features identified in the field will be recorded with a Global Positioning System (GPS) unit that is capable of sub-meter accuracy.
 - A delineation report will be generated that includes methods, results, and conclusions, along with necessary data forms, photographs, maps, and a delineation map.
- Section 404/ Nationwide Permit
 - Evaluate the proposed site plan to determine compliance with Section 404, specifically with the NWP program.



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- Evaluate the proposed project and what impacts the project has in waters of the United States to determine the USACE's scope and type of permit necessary for the impacts.
 - Document the NWP terms and conditions, General Conditions, and Fort Worth District Regional Conditionals for the applicable permit.
 - Document how the proposed project complies with each of these conditions.
 - Prepare Nationwide Permit Application Package
 - Protected Species Habitat Assessment
 - Gather the necessary data and complete the documentation required by the TPWD for Rare, Threatened, and Endangered Species. The initial data gathering will include the county list from the TPWD Wildlife Diversity Program and the USFWS Information, Planning, and Consulting System (IPaC)
 - A desktop habitat assessment will be performed to determine the potential for certain required habitats to be present within the project.
 - A letter report will be prepared that describes the habitats present on the site, the protected species that are listed in the county and their preferred habitats, and an evaluation of whether this preferred habitat is present on site. The report will also contain recommendation for any construction monitoring or mitigation measures to avoid impacts to migratory birds during primary nesting seasons that may overlap proposed construction schedules. If preferred habitats for protects species are located through the desktop study, CONSULTANT will provide recommendations to avoid impacts to high probability habitats to assist the COUNTY in maintaining budget and schedule on the development projects. If preferred habitats could not be avoided, TPWD may require species-specific survey to be performed.
 - Cultural Resources Pedestrian Survey
 - Obtain a Texas Antiquities Permit;
 - Complete a full pedestrian survey to document sites or features and historic bridges, buildings, or other structures older than 50 years of age;
 - Document any cultural resources encountered to make preliminary determinations of eligibility for inclusion in the NRHP or designated as a State Archaeological Landmark (SAL);
 - Analyze any artifacts recorded and/ or collected (if applicable);
 - Assess any previously recorded archaeological sites within the project are for their present condition (if applicable);
 - Complete and submitting State of Texas Archaeological Site Data Forms or Update Forms for any new or previously recorded sites to TARL and obtain site trinomial identification numbers documented within the APE for up to two sites (if applicable)



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- Draft a technical report that documents the cultural resource background review, survey methods, survey results, and necessary NRHP eligibility assessment, and recommendations.
 - Negotiating and coordinating to obtain approval of the agency issuing the agreement and/ or permits.
 - Completing all forms/ applications necessary.
 - Submitting forms/ applications for OWNER review
 - Submitting revised forms for agency review
 - Responding to agency comments and requests

8.4. Drainage/ Floodplain Services

- Based on existing conditions topography and the current roadway conditions, up to (2) drainage crossings have been identified within the project limits.
- The Big Fossil Creek Crossing is located within FEMA Zone A and Zone AE floodplain and the remainder are unmapped. A floodplain analysis will be performed for all crossings in accordance with City of Fort Worth Standards and the minimum requirements for the National Flood Insurance Program (NFIP) as administered by the Federal Emergency Management Agency (FEMA).
- It is intended that a drainage/flood study include all drainage information and planning for project limits and will include tasks associated with the development of the linear storm drain plans as well as the drainage crossings. Below is a summary of the tasks associated with the drainage/ flood study.

- Data Collection

- Topographic Survey:

- Channel cross-section survey of the two crossings
- As-built survey of all current culvert crossings
- Perform up to two (2) field visits to evaluate the site conditions and understand drainage patterns, as well as potential construction restraints.
- Obtain available models from FEMA and the City of Fort Worth.
- Obtain record drawings for construction plans for existing infrastructure and existing and proposed developments in the area.

- Drainage/ Flood Study

CONSULTANT shall perform a drainage/ flood study to evaluate peak discharges from the project site, determine storm drain infrastructure sizes and locations and ensure no adverse downstream impacts.

- Hydrology:

- Existing Discharges: Determine the contributing drainage areas for each existing crossing and compute the SCS unity hydrograph



hydrologic parameters associated with the drainage areas (area, weighted curve number, impervious percentage, time of concentration and rainfall intensity). Compute the anticipated pre-project storm water runoff of each roadway crossing.

- Proposed Discharges: Update any drainage areas and parameters based on the proposed roadway configuration.
- Fully Developed Discharge: Determine watershed hydrologic parameters for the 100-year fully developed conditions.
- Hydraulic Analysis:
 - Develop/ Update Cross-Sections: Data from the topographic survey of the Project and LIDAR will be used to generate cross section data. If there are any available studies of the area, this information will be incorporated as well.
 - Existing flow characteristics: Compute the existing 100-year flood elevations, velocities and typical flow characteristics for each crossing. The upstream and downstream limits will be established on a crossing specific basis.
 - Proposed flow characteristics: Compute the proposed 100-year flood elevations, velocities and typical flow characteristics for each crossing. The limits of analysis will extend to where there are no impacts, or the impacts meet City of Fort Worth criteria.
 - System Sizing: Using the proposed conditions discharges, establish approximate inlet locations and sizes, approximate storm drain sizes and drainage crossings (assumed culvert) sizes. Crossings and system will be sized to meet the City of Fort Worth criteria.
- Exhibits: Develop exhibits for use in discussions related to project and inclusion in the report.
- Report: Compile the above information into a report.

Deliverables and Submittals:

It is intended that the Drainage/ Flood Study Report be submitted with each plan submission.

- Conceptual Plan Submission: The Drainage/ Flood Study Report will include all available information with the intent of providing adequate sizes of drainage facilities to support the design. The intent is to allow the COUNTY and City of Fort Worth the ability to understand the configurations and impacts associated with drainage infrastructure so that coordination with adjacent utilities and landowners may begin.
- Preliminary Plan Submission: All Drainage/ Flood Study comments provided with the Conceptual Plan submission will be addressed and the Study will be modified and refined based on any changes in the plans from Conceptual Submission to Preliminary Submission.



- Final Plan Submission: All Drainage/ Flood Study comments provided with the Preliminary Plan submission will be addressed and the Study will be modified and refined based on any changes in the plans from Preliminary Submission to Final Submission. Comments received on this submission will be addressed promptly until the Study is approved.
- Floodplain Development Permit: Upon acceptance of the final drainage/ flood study, appropriate applications and checklists will be completed for assurance of a City of Fort Worth Floodplain Development Permit.

8.5. Tree Removal Permit

- CONSULTANT shall coordinate with the City of Fort Worth Forester in the Park and Recreation Department (PARC), submit and obtain approval of a Tree Removal Permit when required.

ASSUMPTIONS

- Permit preparation will begin after approval of the Conceptual Design.
- The project will go through the City's development review process, or a similar process established for Capital Improvement Projects.
- All studies will meet City of Fort Worth iSWM Criteria.

DELIVERABLES

- A. Copies of Permit Applications
- B. Copies of Approved Permits

ADDITIONAL SERVICES NOT INCLUDED IN THE EXISTING SCOPE OF SERVICES

COUNTY and CONSULTANT agree that the following services are beyond the Scope of Services described in the tasks above. However, CONSULTANT can provide these services, if needed, upon the COUNTY's written request. Any additional amounts paid to the CONSULTANT as a result of any material change to the Scope of the Project shall be agreed upon in writing by both parties before the services are performed. These additional services include the following:

- Bidding Services
- Negotiation of easements or property acquisition, unless included as part of Section 7.
- Administration of the construction contract and inspection services
- Performance of materials testing or specialty testing services.
- Services related to damages caused by fire, flood, earthquake or other acts of God.
- Services to support, prepare, document, bring, defend, or assist in litigation undertaken or defended by the COUNTY.
- Performance of miscellaneous and supplemental services related to the project as requested by the COUNTY.

**Design Services for
Bonds Ranch Segment 3**

Compensation Summary

Kimley-Horn will perform the services in Tasks 1-6 and 8 for the lump sum fees summarized in the table below. All permitting, application, and similar project fees will be paid directly by the Client.

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

Kimley-Horn will perform the services in Task 7 on an hourly, labor fee plus expense basis with the maximum labor fee shown below.

Kimley-Horn will not exceed the total maximum labor fee shown for Task 7 without authorization from the Client.

Labor fee will be billed on an hourly basis. Direct reimbursable expenses such as express delivery services, air travel, and other direct expenses will be billed at 1.15 times cost. A percentage of labor fee will be added to each invoice to cover certain other expenses as to these tasks such as telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by the Client. Should the Client request Kimley-Horn to advance any such project fees on the Client's behalf, an invoice for such fees, with a fifteen percent (15%) markup, will be immediately issued to and paid by the Client.

Task Summary Table

Task Number & Name		Fee	Type
1	Design Management	\$169,000	Lump Sum
2	Conceptual Design (30%)	\$304,000	Lump Sum
3	Preliminary Design (60%)	\$775,000	Lump Sum
4	Final Design (90% & 100%)	\$708,000	Lump Sum
5	ROW / Easement Services	\$19,000	Lump Sum
6	Survey and Subsurface Utility Engineering Services	\$245,000	Lump Sum
7	Franchise Utility Coordination	\$95,000	Hourly
8	Permitting	\$151,000	Lump Sum
Total		\$2,466,000	

Hourly Labor Rate Schedule

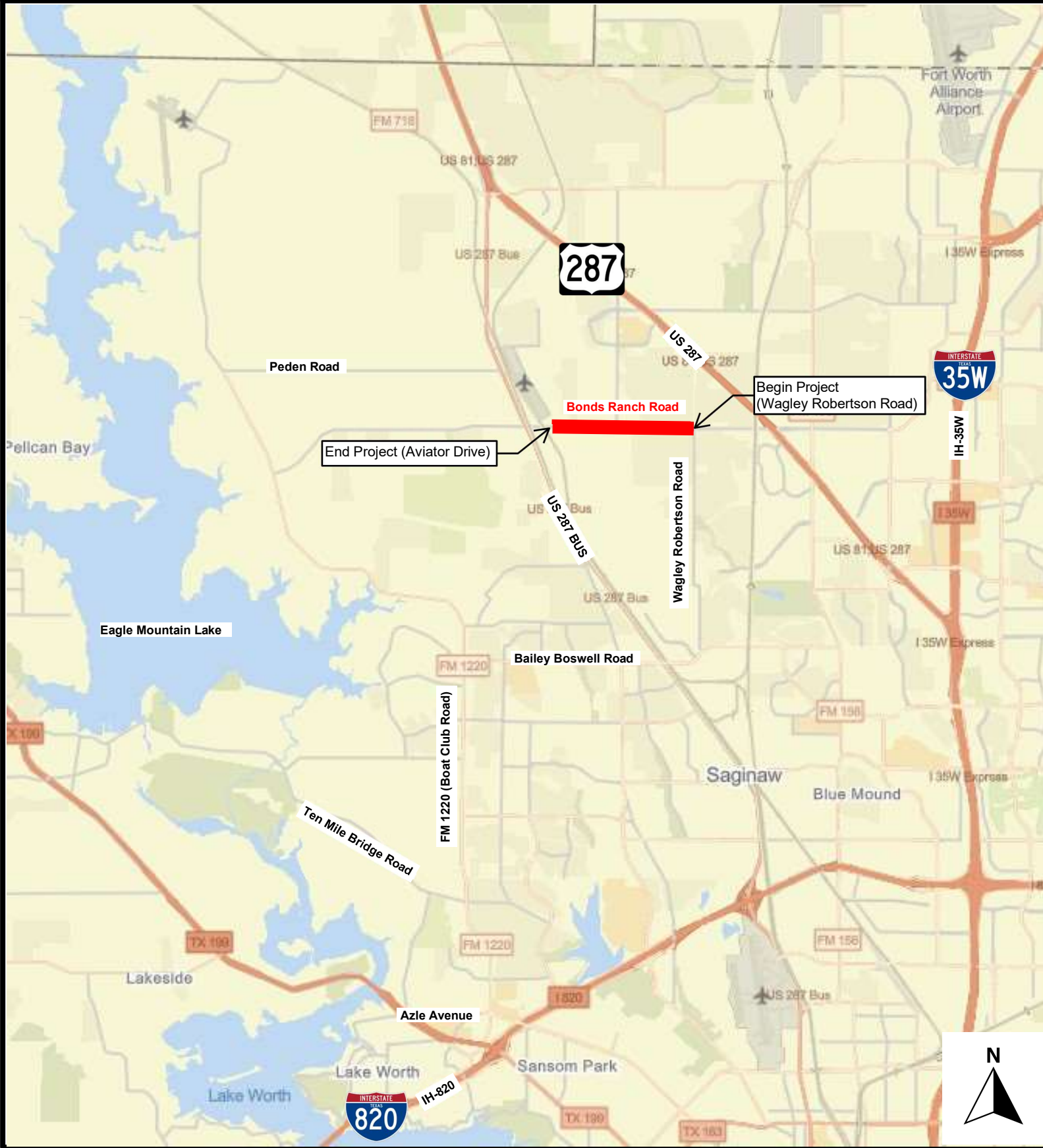
Classification	Rate
EIT I, II, III	\$165 - \$250
Project Engineer	\$235 - \$300
Project Manager	\$260 - \$360
Senior Project Engineer	\$345 - \$380
Project Director	\$360 - \$420
Admin	\$110 - \$150

Effective through December 31, 2025

Subject to adjustment thereafter

BONDS RANCH ROAD SEGMENT 3

Attachment C - Project Location Map



**Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Bonds Ranch Road - Segment 3**

Task No.	Task Description	Labor (hours)							Total Labor Cost	Expense		Task Sub Total	
		Senior Project Manager	Project Manager	Senior Project Engineer	Project Engineer	EIT III	EIT II	EIT I		Admin	Subconsultant		Expense Markup
1.0	Design Management	65	192	0	20	192	0	166	52	\$169,000	\$0	\$0	\$169,000
1.1	Managing the Team												
1.1.1	Internal Team Meetings	18	18			18		18		\$20,160		\$0	\$20,160
1.1.2	General Project Coordination	5	24			48		48		\$28,020		\$0	\$28,020
1.2	Communications and Reporting												
1.2.1	Pre-Design Coordination Meeting	6	6			6				\$5,640		\$0	\$5,640
1.2.2	Monthly Project Update Meetings	12	24			12				\$15,120		\$0	\$15,120
1.2.3	Design Submittal Review Meetings		16			32		32		\$17,280		\$0	\$17,280
1.2.4	Coordination Meetings with City of Fort Worth		16			20		8		\$10,560		\$0	\$10,560
1.2.5	Monthly Bonds Ranch Coordination Calls		18							\$5,760		\$0	\$5,760
1.2.6	Prepare Baseline Schedule	2	2			4				\$2,280		\$0	\$2,280
1.2.7	Prepare Monthly Progress Reports		12			12			12	\$7,800		\$0	\$7,800
1.2.8	Invoicing		12						40	\$9,040		\$0	\$9,040
1.3	Constructability Review	10	10		20					\$12,200		\$0	\$12,200
1.4	Public Involvement												
1.4.1	Planning Meeting (2)	4	10			10		10		\$8,680		\$0	\$8,680
1.4.2	Debrief Meeting (2)	4	10			10		10		\$8,680		\$0	\$8,680
1.4.3	Public Meeting (2)	2	10			10		10		\$7,840		\$0	\$7,840
1.4.4	Project Exhibits	2	4			10		30		\$9,520		\$0	\$9,520
2.0	Conceptual Design (30%)	55	131	68	72	280	87	420	0	\$249,000	\$50,000	\$5,000	\$304,000
2.1	Data Collection												
2.1.1	Traffic Counts				6					\$1,440	\$5,000	\$500	\$6,940
2.1.2	Site Visit		10			10		10		\$7,000		\$0	\$7,000
2.2	Subsurface Utility Engineering		5			10				\$3,600		\$0	\$3,600
2.3	Utility Design and Coordination		5		5	5				\$3,800		\$0	\$3,800
2.4	Geotechnical Investigation/ Pavement Design									\$0	\$45,000	\$4,500	\$49,500
2.5	Traffic Study												
2.5.1	Intersection Capacity Analysis			3	15			25		\$9,190		\$0	\$9,190
2.5.2	Intersection Signal Warrants			3	20			30		\$11,340		\$0	\$11,340
2.5.3	Technical Memorandum			10	16			32		\$12,720		\$0	\$12,720
2.6	Conceptual Design Drawings												
2.6.1	Cover & Index Sheets							5		\$900		\$0	\$900
2.6.2	Right-of-way Strip Map					5		5		\$1,900		\$0	\$1,900
2.6.3	Existing Typical Sections	2				5		20		\$5,440		\$0	\$5,440
2.6.4	Proposed Typical Sections	2				5		20		\$5,440		\$0	\$5,440
2.6.5	Paving Plan & Profile Sheets	5	20			80		120		\$46,100		\$0	\$46,100
2.6.6	Drainage Area Map (Existing & Proposed)	1	2	2		10		40		\$10,820		\$0	\$10,820
2.6.7	Conceptual Storm Drain Layout Sheets	5	10	20		30		80		\$31,300		\$0	\$31,300
2.6.8	Conceptual Storm Drain Calcs	4	5	10	10	20				\$12,480		\$0	\$12,480
2.6.9	Identify Utility Adjustments	10	15			20				\$13,000		\$0	\$13,000
2.6.10	QA/QC Process	20	20	20						\$20,400		\$0	\$20,400
2.6.11	Address QA/QC Comments	4	30			60		100		\$41,280		\$0	\$41,280
2.7	Opinion of Probable Construction Cost & Quantities	2	9			20		20		\$11,320		\$0	\$11,320
3.0	Preliminary Design (60%)	127	311	335	711	606	260	1038	0	\$775,000	\$0	\$0	\$775,000
3.1	Preliminary Design Drawings and Specifications												
3.1.1	Create Comment Response Matrix and Address Stakeholder Comments	2	15		20	20		40		\$21,640		\$0	\$21,640
3.1.2	Update Cover & Index Sheets							8		\$1,440		\$0	\$1,440
3.1.3	General Notes	2	10		5	5		10		\$8,040		\$0	\$8,040
3.1.4	Update Right-of-way Strip Map				5	5		10		\$4,000		\$0	\$4,000
3.1.5	Existing Utility/ SUE Sheets		5		4	4		20		\$6,960		\$0	\$6,960
3.1.6	Update Existing Typical Sections	2	2		1	1		20		\$5,520		\$0	\$5,520
3.1.7	Update Proposed Typical Sections	2	5		3	3		20		\$7,360		\$0	\$7,360
3.1.8	Traffic Control Plan & Proposed Phasing Plan	4	20		20	20		60		\$27,680		\$0	\$27,680
3.1.9	Removal Plan Sheets	2	10		10	10		60		\$19,240		\$0	\$19,240
3.1.10	Update Paving Plan & Profile Sheets	20	40		100	100		200		\$101,200		\$0	\$101,200
3.1.11	Side street Plan & Profile Sheets	2	10		40	40		40		\$28,840		\$0	\$28,840
3.1.12	Driveway Plan & Profile Sheets	2	10		40	40		40		\$28,840		\$0	\$28,840
3.1.13	Design Coordination and Updates for Adjacent Developments	2	10		15	15		40		\$17,840		\$0	\$17,840
3.1.14	Paving Details	1	10		3	3		20		\$8,540		\$0	\$8,540
3.1.15	3D Model & Cross Sections	2	30	120	80	80				\$79,240		\$0	\$79,240
3.1.16	Signing Sheets	1		10	10			40		\$12,820		\$0	\$12,820
3.1.17	Pavement Marking Sheets	1		10	10			40		\$12,820		\$0	\$12,820
3.1.18	Illumination Sheets	2		20	60			80		\$36,040		\$0	\$36,040
3.1.19	Photometrics Analysis	6		10	40			100		\$33,920		\$0	\$33,920
3.1.20	Photometrics Exhibits	6		10	15			30		\$14,620		\$0	\$14,620
3.1.21	Traffic Signal Layout Sheets	2		30	40			50		\$28,340		\$0	\$28,340

**Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Bonds Ranch Road - Segment 3**

Task No.	Task Description	Labor (hours)							Total Labor Cost	Expense		Task Sub Total
		Senior Project Manager	Project Manager	Senior Project Engineer	Project Engineer	EIT III	EIT II	EIT I		Admin	Subconsultant	
3.1.22	Update Drainage Area Map (Existing & Proposed)	4	4	5	5	5		20	\$10,160		\$0	\$10,160
3.1.23	Update Storm Drain Sheets	4	20	20	60	60		120	\$61,680		\$0	\$61,680
3.1.24	Culvert Crossing Sheets	20	20	30	20	20		20	\$35,600		\$0	\$35,600
3.1.25	Headwall and Channel Sheets	2	5	20	10	10		10	\$14,240		\$0	\$14,240
3.1.26	Stormwater Calcs	10	20	30	30	100			\$46,200		\$0	\$46,200
3.1.27	Design Major Utility Adjustments (air release, blow-off and butterfly valves)	4	30		30	30		80	\$38,880		\$0	\$38,880
3.1.28	QA/QC Process	20	20	20					\$20,400		\$0	\$20,400
3.1.29	Address QA/QC Comments	2	10		30	30		100	\$35,240		\$0	\$35,240
3.2	Opinion of Probable Construction Cost & Quantities		5		5	5		20	\$7,400		\$0	\$7,400
4.0	Final Design (90% & 100%)	136	357	205	968	0	135	1230	\$708,000	\$0	\$0	\$708,000
4.1	Final Design Plans and Specifications											
4.1.1	Update Comment Response Matrix and Address Stakeholder Comments	2	10		40			40	\$20,840		\$0	\$20,840
4.1.2	Update Cover & Index Sheets							4	\$720		\$0	\$720
4.1.3	General Notes	1	4		4			4	\$3,380		\$0	\$3,380
4.1.4	Update Existing Utility/ SUE Sheets		2		5			10	\$3,640		\$0	\$3,640
4.1.5	Update Right-of-way Strip Map	1			5			12	\$3,780		\$0	\$3,780
4.1.6	Update Existing Typical Sections	1	10		10			40	\$13,220		\$0	\$13,220
4.1.7	Update Proposed Typical Sections	1	10		10			40	\$13,220		\$0	\$13,220
4.1.8	Update Traffic Control Plan & Proposed Phasing Plan	2	30		80			180	\$62,040		\$0	\$62,040
4.1.9	Update Removal Plan Sheets	1	4		20			60	\$17,300		\$0	\$17,300
4.1.10	Update Paving Plan & Profile Sheets	2	20		60			120	\$43,240		\$0	\$43,240
4.1.11	Update Side street Plan & Profile Sheets	2	10		30			30	\$16,640		\$0	\$16,640
4.1.12	Update Driveway Plan & Profile Sheets	2	10		30			30	\$16,640		\$0	\$16,640
4.1.13	Design Coordination and Updates for Adjacent Developments	2	10		20			30	\$14,240		\$0	\$14,240
4.1.14	Jointing Plan	2	8		20			40	\$15,400		\$0	\$15,400
4.1.15	Update Paving Details	1	4		9			10	\$5,660		\$0	\$5,660
4.1.16	Update 3D Model & Cross Sections	2	20	40	150				\$54,440		\$0	\$54,440
4.1.17	Update Signing Sheets			10	10			30	\$10,600		\$0	\$10,600
4.1.18	Update Pavement Marking Sheets			10	10			30	\$10,600		\$0	\$10,600
4.1.19	Update Illumination Sheets	4		20	40		80		\$32,080		\$0	\$32,080
4.1.20	Update Traffic Signal Layout Sheets	4	20		30		55		\$25,730		\$0	\$25,730
4.1.21	Update Drainage Area Map (Existing & Proposed)	4	5	5	5			20	\$9,480		\$0	\$9,480
4.1.22	Update Storm Drain Sheets	4	20	20	40			100	\$41,280		\$0	\$41,280
4.1.23	Update Culvert Crossing Sheets	10	15	20	30			60	\$32,600		\$0	\$32,600
4.1.24	Update Headwall and Channel Sheets	2	5	10	10			20	\$11,240		\$0	\$11,240
4.1.25	Update Stormwater Calcs	20	20	30	80				\$42,400		\$0	\$42,400
4.1.26	Update Utility Adjustment Sheets	10	20		40			40	\$27,400		\$0	\$27,400
4.1.27	QA/QC Process - 90%	20	20	20					\$20,400		\$0	\$20,400
4.1.28	Address QA/QC Comments	2	10		60			100	\$36,440		\$0	\$36,440
4.1.29	QA/QC Process Final	20	20	20					\$20,400		\$0	\$20,400
4.1.30	Address QA/QC Comments	2	10		60			100	\$36,440		\$0	\$36,440
4.2	Project Manual	10	20		40				\$20,200		\$0	\$20,200
4.3	Opinion of Probable Construction Cost & Quantities	2	20		20			80	\$26,440		\$0	\$26,440
5.0	ROW / Easement Services	0	18	0	0	30	0	0	\$11,300	\$7,000	\$700	\$19,000
5.1	Right-of-Way Research		8			10			\$4,560		\$0	\$4,560
5.2	Right-of-Way/ Easement Preparation and Submittal		10			20			\$7,200	\$7,000	\$700	\$14,900
6.0	Survey and Subsurface Utility Engineering Services	0	20	80	0	150	0	40	\$65,700	\$163,000	\$16,300	\$245,000
6.1	Office Work			80		100		40	\$49,600		\$0	\$49,600
6.2	Field Work								\$0	\$30,000	\$3,000	\$33,000
6.3	Subsurface Utility Engineering											
6.3.1	SUE QL A Test Holes		10			20			\$7,200	\$53,000	\$5,300	\$65,500
6.3.2	SUE QL B/C/D Designating		10			30			\$9,200	\$80,000	\$8,000	\$97,200
7.0	Franchise & Gas Utility Line Coordination (Hourly)	10	23	0	142	228	0	20	\$95,000	\$0	\$0	\$95,000
7.0.1	Obtain Design Files					10			\$2,000		\$0	\$2,000
7.0.2	Determine Utility Conflicts (30%, 60%, 90%, 100%)		2		10	40		20	\$14,640		\$0	\$14,640
7.0.3	Prepare Initial Utility Conflict Matrix		2		10	10			\$5,040		\$0	\$5,040
7.0.4	Update Utility Conflict Matrix (60%, 90%, 100%)		1		2	3			\$1,400		\$0	\$1,400
7.0.5	Establish Contact with Utility Companies		2		20	20			\$9,440		\$0	\$9,440
7.0.6	Develop and provide Utility Contact List		2		10	10			\$5,040		\$0	\$5,040
7.0.7	Provide initial notification letters to utility companies		1		5	15			\$4,520		\$0	\$4,520
7.0.8	Provide required relocation letters to utility companies		1		5	20			\$5,520		\$0	\$5,520
7.0.9	Coordinate conflicts with utility companies		4		40	40			\$18,880		\$0	\$18,880
7.0.10	Evaluate alternatives		5		4	20			\$12,180		\$0	\$12,180
7.0.11	Review utility relocation plans		5		4	20			\$12,180		\$0	\$12,180
7.0.12	Schedule utility coordination meetings					20			\$4,000		\$0	\$4,000

**Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Bonds Ranch Road - Segment 3**

Task No.	Task Description	Labor (hours)							Total Labor Cost	Expense		Task Sub Total	
		Senior Project Manager	Project Manager	Senior Project Engineer	Project Engineer	EIT III	EIT II	EIT I		Admin	Subconsultant		Expense Markup
8.0	Permitting	99	38	60	130	130	110	0	0	\$148,800	\$2,000	\$200	\$151,000
8.1	TDLR		10			4				\$4,000	\$2,000	\$200	\$6,200
8.2	Stormwater Water Pollution Prevention Plan	4	15			30				\$12,480		\$0	\$12,480
8.3	Environmental Services												
8.3.1	Water of the United States Delineation	10				30				\$10,200		\$0	\$10,200
8.3.2	Section 404/ Nationwide Permit	15				30				\$12,300		\$0	\$12,300
8.3.3	Protected Species Habitat Assessment	10				30				\$10,200		\$0	\$10,200
8.3.4	Cultural Resource Pedestrian Survey	4				6				\$2,880		\$0	\$2,880
8.4	Drainage/ Flood Study												
8.4.1	HEC-RAS Modeling	10			20		40			\$16,600		\$0	\$16,600
8.4.2	Stormwater Study Report	5			20		20			\$10,700		\$0	\$10,700
8.4.3	Proposed Flood Study	5			20		10			\$8,800		\$0	\$8,800
8.4.4	Proposed HEC-RAS Modeling - Big Fossil Creek Crossing	10			20		20			\$12,800		\$0	\$12,800
8.4.5	Upstream & Downstream Channel Analysis	5			15		10			\$7,600		\$0	\$7,600
8.4.6	Flood Study Report	20	10	60	15		10			\$33,900		\$0	\$33,900
8.5	Tree Removal Permit	1	3		20					\$6,180		\$0	\$6,180
	Totals	492	1090	748	2043	1616	592	2914	52	\$2,221,800	\$222,000	\$22,200	\$2,466,000

Project Summary	
Total Hours	9,547
Total Labor	\$2,221,800
Total Expense	\$22,200
Subconsultant	\$222,000
Sub Markup	\$22,200
Total Cost	\$2,466,000



**COMMISSIONERS COURT
COMMUNICATION**

COURT ORDER NUMBER 145194
PAGE 1 OF 33
DATE: 5/6/2025

**SUBJECT: CONSIDERATION OF A PROFESSIONAL SERVICES AGREEMENT
WITH KIMLEY-HORN AND ASSOCIATES, INC. RELATED TO THE
BONDS RANCH ROAD IMPROVEMENT PROJECT**

***** CONSENT AGENDA *****

COMMISSIONERS COURT ACTION REQUESTED

It is requested that the Commissioners Court consider a Professional Services Agreement with Kimley-Horn and Associates, Inc. related to the Bonds Ranch Road improvement project.

BACKGROUND

On September 5, 2023, the Commissioners Court, through Court Order #141673, approved the programming of 2021 Transportation Bond Program funds from the Countywide Initiatives and Partnerships category for the Bonds Ranch Road corridor improvement project.

The third segment of Bonds Ranch Road, from East of Business 287 to the intersection with Wagley Robertson Road, is ready to proceed to the design phase. Staff reviewed the qualifications from RFQ F2025021, Professional Engineering and Planning Services, and requests the Commissioners Court consider a Professional Services Agreement with Kimley-Horn and Associates, Inc. for design services related to this project.

The Professional Services Agreement has been reviewed as to form by the Criminal District Attorney's Office.

FISCAL IMPACT

The fiscal impact to Tarrant County will be \$2,466,000. Funds are available in account 579061/47800-2025/6840100000 (Countywide Initiatives and Partnerships category).

SUBMITTED BY	Transportation Services	PREPARED BY:	Joseph Jackson
		APPROVED BY:	Scott Hall

PROFESSIONAL SERVICES AGREEMENT

This Professional Services Agreement ("Agreement") by and between Tarrant County (County) and Kimley-Horn and Associates, Inc. (Consultant), located at 801 Cherry Street, Suite 1300, Unit 11, Fort Worth, Texas becomes effective on the date of approval in Tarrant County Commissioners Court.

SCOPE OF SERVICES

Consultant agrees to perform the services set forth in the Scope of Services attached as Attachment A in a timely and professional manner, consistent with industry and professional standards, and in accordance with all applicable laws and the terms of this Agreement. Consultant warrants that all engineering services to be performed under this contract will be performed by a licensed engineer or licensed engineers with the professional skill and care ordinarily provided by competent engineers practicing in Texas and under the same or similar circumstances and professional license and that such services will be performed as expeditiously as is prudent considering the ordinary professional skill and care of said engineer or engineers. If any services, functions or responsibilities not specifically described in this Attachment A are required for the proper performance and provision of these services, they shall be deemed to be included with the Attachment A.

ACCESSIBILITY OF DOCUMENTS

Consultant agrees that documents prepared by Consultant in the performance of the Scope of Services shown in Attachment A may be made available to the public, including land developers, upon request.

TERM AND RENEWAL OPTIONS

Upon approval of this contract by the Tarrant County Commissioners Court, Consultant is authorized to begin the provision of services as described in the attached Attachment A. Consultant agrees to complete the services requested by the County in accordance with the attached schedule.

PAYMENT AND INVOICING

Compensation to Consultant for the services described in the attached Attachment A shall not exceed \$2,466,000 as shown on Attachment B for the services under this Agreement, upon approval by the County.

Consultant is to advise the County of additional services that may be required to complete any services requested under this Agreement prior to those additional services being performed that are not part of this Agreement, and must obtain prior approval, in writing, by the County before those additional services are performed and invoiced.

- a. If in the execution of services, the County may request Consultant to remove a service prior to Consultant's performance of that service. Consultant agrees that the County not be held responsible for costs associated with those services that were removed.

- b. Payments will be made monthly in arrears, on a net 30-day basis. The fee is to be inclusive of all travel costs.
- c. Invoices are to be detailed and reference the fees as shown in Attachment B. A summary of the work performed during the invoiced period should accompany the invoice submittal.
- d. Submit invoices to: Tarrant County Auditor's Office, Attention: Accounts Payable, 100 E. Weatherford St., Suite 506, Fort Worth, Texas 76196, phone: 817-884-1205, or email to: SAP-Invoices@tarrantcountytx.gov and jjackson@tarrantcountytx.gov. Invoices should reference the Purchase Order number.

COMPLIANCE WITH LAWS

1. In providing the services required by this Agreement, Consultant must observe and comply with all applicable federal, state, and local statutes, ordinances, rules, and regulations, including, without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and non-discrimination laws and regulations. Consultant shall be responsible for ensuring its compliance with any laws and regulations applicable to its business, including maintaining any necessary licenses and permits.

2. Chapters 2271, 2252, and 2274 Texas Government Code Verification.

(a) *Boycott of Israel Prohibited.* In compliance with Section [2271.001](#) et seq. of the Texas Government Code, Consultant verifies that neither it nor any of its affiliates currently boycott Israel and neither it nor any of its affiliates will boycott Israel during the term of this Agreement. "Boycott Israel" is defined in Section [808.001\(1\)](#) of the Texas Government Code.

(b) *Scrutinized Business Operations Prohibited.* In compliance with Section [2252.151](#) et seq. of the Texas Government Code, Consultant warrants and represents that: (1) neither Consultant nor any of its affiliates engages in scrutinized business operations in Sudan; (2) neither Consultant nor any of its affiliates engages in scrutinized business operations in Iran; and (3) neither Consultant nor any of its affiliates engages in scrutinized business operations with designated foreign terrorist organizations. "Scrutinized business operations in Sudan" is defined in Section [2270.0052](#) of the Texas Government Code. "Scrutinized business operations in Iran" is defined in Section [2270.0102](#) of the Texas Government Code. "Scrutinized business operations with designated foreign terrorist organizations" is defined in Section [2270.0152](#) of the Texas Government Code. Consultant further represents and warrants that neither Consultant nor any of its affiliates appears on any of the Texas Comptroller's [Scrutinized Companies Lists](#).

(c) *Boycott of Certain Energy Companies Prohibited.* In compliance with Section [2276.002](#) of the Texas Government Code (added by 87th Legislature, S.B. 13), Consultant verifies that neither it nor any of its affiliates currently boycott energy companies and neither it nor any of its affiliates will boycott energy companies during the term of this Agreement. "Boycott energy company" is defined in Section [809.001\(1\)](#) (added by 87th Legislature, S.B. 13) and means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company: (A) engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and de

not commit or pledge to meet environmental standards beyond applicable federal and state law; or (B) does business with a company described by subsection (A).

(d) *Discrimination against Firearm Entities or Firearm Trade Associations Prohibited.* In compliance with Section [2274.002](#) of the Texas Government Code (added by 87th Legislature, S.B. 19), Consultant verifies that neither it nor any of its affiliates have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and neither it nor any of its affiliates will discriminate during the term of the Agreement against a firearm entity or firearm trade association. "Discriminate against a firearm entity or firearm trade association" is defined in Section [2274.001\(3\)](#) (added by 87th Legislature, S.B. 19) and means, with respect to the entity or association, to: (i) refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; (ii) refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or (iii) terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; the term *does not include*: (i) the established policies of a merchant, retail seller, or platform that restrict or prohibit the listing or selling of ammunition, firearms, or firearm accessories; and (ii) a company's refusal to engage in the trade of any goods or services, decision to refrain from continuing an existing business relationship, or decision to terminate an existing business relationship: (aa) to comply with federal, state, or local law, policy, or regulations or a directive by a regulatory agency; or (bb) for any traditional business reason that is specific to the customer or potential customer and not based solely on an entity's or association's status as a firearm entity or firearm trade association.

3. **Legal Compliance.** Each party shall comply with the provisions of all applicable laws relating to the performance of its obligations under this Agreement. Each party is responsible for obtaining its own legal advice concerning its compliance with applicable laws.

4. **Prohibition of Political Activity.** None of the funds provided under this Agreement shall be used for influencing the outcome of any election, or the passage or defeat of any legislative measure. This prohibition shall not be construed to prevent the Parties' compliance with the Texas Public Information Act. No funds provided under this Agreement may be used directly or indirectly to hire employees or in any other way fund or support candidates for the legislative, executive, or judicial branches of government, the State of Texas, or the government of the United States. None of the funds provided under this Agreement shall be paid to any official or employee who violates any of the provisions of this Section.

5. **Form 1295 Certificate of Interested Parties.** Consultant acknowledges and agrees that it has fully, accurately, and completely disclosed all interested parties in the Form 1295 electronically filed with the Texas Ethics Commission, at <https://www.ethics.state.tx.us/filinginfo/1295/>, as required by law, and that the attached signed copy attached as **Exhibit G** is a full and true copy of said filed form.

6. **Conflict of Interest.** Consultant assures that it is in compliance with the requirements of [Chapter 176](#) of the Texas Local Government Code and has filed or will promptly file the Conflict of Interest Questionnaire (CIQ Form) with the Tarrant County Clerk no later than

the 7th business day after the date Consultant becomes aware of facts that require the form to be filed. Completed forms are to be sent to:

Tarrant County Transportation Services
Attn: Joseph Jackson, County Engineer
100 East Weatherford Street, Room 401
Fort Worth, Texas 76196

INSURANCE REQUIREMENTS

Consultant shall take out, pay for and maintain always during the prosecution of the work under the contract, the following forms of insurance, in carriers acceptable to and approved by Tarrant County:

- a. Worker's Compensation/Employer's Liability
 1. Worker's Compensation – statutory
 2. Employer's Liability - \$500,000
- b. Commercial General Liability:
 1. Bodily injury/Personal injury/Property damage - \$1,000,000 per occurrence/\$2,000,000 aggregate
- c. Auto Liability:
 1. Combined Single Limit (CSL) - \$500,000 per occurrence
- d. Contractual Liability – same limits as above
- e. Professional Liability Insurance - \$1,000,000 each claim with minimum \$2,000,000 aggregate

FINANCIAL RESPONSIBILITY

Consultant is responsible for its incurred expenses in performing this contract unless otherwise noted. To the extent permitted by the Constitution and the laws of the State of Texas, Consultant indemnifies and holds harmless the County against any and all claims, lawsuits, settlements, judgments, costs, penalties and expenses, including attorney's fees, for damage caused by or resulting from an act of negligence, intentional tort, intellectual property infringement, or failure to pay a subcontractor or supplier committed by the Consultant, its agent, or another entity over which the Consultant exercises control.

AGENCY-INDEPENDENT CONTRACTOR

Neither Consultant nor any employee thereof is an agent of the County and neither the County nor any employee thereof is an agent of Consultant. This agreement does not and shall not be construed to entitle either party or any of their representative employees, if applicable, to any benefits, privilege, or other amenities of employment of the other part.

ASSIGNMENT

Neither party may assign this contract.

THIRD PARTY BENEFICIARY EXCLUDED

This party does not incur to the benefit of any specific third party. The parties to this contract do not consent to the waiver of sovereign or government immunity under Texas state or federal law to the extent either party may have that immunity under law.

ENTIRE AGREEMENT

The Contract documents consist of the following:

- This Agreement
- Request for Qualifications F2025021 Bid Documents and Consultant Response
- Consultant Proposal
- Any exhibits attached hereto, conditions of the contract (special, supplementary and other conditions), all addenda issued prior to execution of this Agreement and all modifications issued subsequent thereto.

To the extent of an ambiguity among the various documents, the Request for Qualifications F2025021 will prevail. These documents collectively form the Contract, and all are fully a part of the Contract as if attached to this Agreement or repeated herein.

This Agreement may not be modified, altered, changed or amended in any respect, unless in writing and signed by both parties. For avoidance of doubt, this Agreement may not be modified orally.

The law of the State of Texas governs this contract. Venue for any action regarding this contract must be in the district courts of Tarrant County, Texas.

This agreement is effective upon the date of approval in Tarrant County Commissioners Court.

TERMINATION

Either party may terminate this contract by:

- a. Providing written notice to the other party at least thirty (30) days prior to the date of termination;
- b. Providing in the written notice the date of termination; and
- c. Sending the written notice by certified mail return receipt requested to the party at its address.

EXECUTION OF AGREEMENT

This Agreement may be executed in separate or multiple counterparts. All of such counterparts shall be deemed to be one and the same Agreement, but only one copy with evidence of signatures shall be required for proof of this Agreement. The exchange of copies of this agreement and of signature pages by electronic transmission shall constitute effective execution and delivery of this agreement as to the parties and may be used in lieu of the original agreement for all purposes. Signatures of the parties transmitted or executed electronically shall be deemed to be their original signatures for any purpose whatsoever.

NOTICES

Tarrant County

Joseph Jackson, P.E., CFM
Tarrant County Transportation Services
100 E. Weatherford, Suite 401
Fort Worth, Texas 76196

Kimley-Horn and Associates, Inc.

Dana Shumard, P.E.
801 Cherry Street, Suite 1300
Unit 11
Fort Worth, Texas 76102

TARRANT COUNTY

KIMLEY-HORN AND ASSOCIATES, INC.



Tim O'Hare
County Judge



Douglas Arnold
Contract Specialist

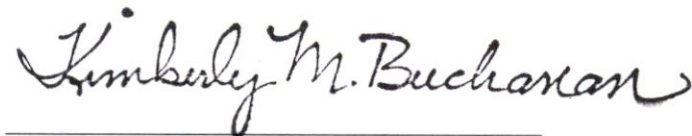
REVIEWED AS TO FORM:



Criminal District Attorney's Office*

*By law, the Criminal District Attorney's Office may only advise or approve contracts or legal documents on behalf of its clients. It may not advise or approve a contract or legal document on behalf of other parties. Our review of this document was conducted solely from the legal perspective of our client. Our approval of this document was offered solely for the benefit of our client. Other parties should not rely on this approval, and should seek review and approval by their own respective attorney(s).

CERTIFICATION OF AVAILABLE FUNDS IN THE AMOUNT OF \$2,466,000:



Auditor's Office



ATTACHMENT "A"

Scope for Engineering Design Related Services for Bonds Ranch Road Segment 3 (from Aviator Drive to Wagley Robertson Road)

The scope set forth herein defines the work to be performed by the CONSULTANT in completing the project. Both the COUNTY and CONSULTANT have attempted to clearly define the work to be performed and address the needs of the Project.

OBJECTIVE

Complete construction plans for Bonds Ranch Road from Aviator Drive to Wagley Robertson Road. The project involves the reconstruction of the existing two-lane Bonds Ranch Road to a four-lane Neighborhood Connector. The typical section of Bonds Ranch Road will be in accordance with the current City of Fort Worth MTP.

The project will include a traffic study to determine the intersection control required at the Bonds Ranch Road and Willow Springs Road intersection. Other major scope items for the project consists of storm drain improvements including one (1) major creek crossing at Big Fossil Creek and franchise utility coordination.

The scope will also consist of project management, data collection, topographic survey, subsurface utility engineering, geotechnical investigation, right-of-way documentation, permitting, conceptual, preliminary and final design plans for roadway, environmental permitting and opinion of probable construction costs.

DEFINITIONS

For the purpose of this document the following definitions apply: COUNTY shall be defined as Tarrant County and CONSULTANT shall be defined as Kimley-Horn and Associates, Inc.

WORK TO BE PERFORMED

- Task 1. Design Management
- Task 2. Conceptual Design (30%)
- Task 3. Preliminary Design (60%)
- Task 4. Final Design (90% and 100%)
- Task 5. ROW / Easement Services
- Task 6. Survey and Subsurface Utility Engineering Services
- Task 7. Franchise Utility Coordination
- Task 8. Permitting



TASK 1. DESIGN MANAGEMENT.

1.1. Managing the Team:

- Lead, manage and direct design team activities
- Ensure Quality Control/ Quality Assurance (QC/QA) is practiced in performance of the work.
- Communicate internally among team members
- Task and allocate team resources
- Conduct and document design team meetings
- Attend a pre-design project kickoff meeting with internal staff to discuss scope, schedule and roles.

1.2. Communications and Reporting:

- Attend a pre-design project kickoff/charter meeting with COUNTY staff to confirm and clarify scope, understand COUNTY objectives, and ensure economical and functional designs that meet COUNTY and City of Fort Worth (CoFW) requirements
- Conduct and document monthly project update meetings with COUNTY project manager.
- Attend monthly Bonds Ranch Road Planning coordination meetings with NCTCOG, TxDOT, CoFW, and the CLIENT.
- Conduct and document review meetings with the COUNTY and CoFW at the end of each design phase.
- Prepare for and conduct up to eight (8) coordination meetings with various departments of City of Fort Worth such as Transportation Management, Planning, Stormwater, and Water Department.
- Prepare invoices and submit monthly to the COUNTY.
- Prepare and submit monthly progress reports to the COUNTY.
- Prepare and submit baseline Project Schedule initially, and Project Schedule updates as needed

1.3. Constructability Review

- Prior to the 60% submittal, CONSULTANT shall schedule and attend a project site visit with the COUNTY's Project Manager and construction personnel to walk the project. The CONSULTANT shall summarize the COUNTY's comments from the field visit and submit this information to the COUNTY in writing.

1.4. Public Involvement

- After the preliminary plans have been reviewed and approved by the COUNTY, the CONSULTANT will prepare project exhibits and attend one (1) public meeting



to help explain the proposed project to residents. The COUNTY will select a suitable location, time and date.

- During the final design phase, the CONSULTANT will prepare project exhibits and attend one (1) public meeting to help explain the proposed project to residents. The COUNTY will select a suitable location, time and date.
- CONSULTANT will prepare for and conduct a planning meeting with the COUNTY for each public meeting.
- CONSULTANT will prepare for and conduct a follow-up/ debrief meeting with the COUNTY for each public meeting.

ASSUMPTIONS

- One (1) kickoff meeting
- One (1) constructability review meeting during design
- Two (2) public meetings
- Four (4) project schedule updates will be prepared
- Four (4) plan review meetings
- Eight (8) coordination meeting with City of Fort Worth
- All submittals to the CLIENT will be Quality checked prior to submission
- Project design phase is anticipated to take twelve (12) months
- Twelve (12) monthly updates of Project Status Reports

DELIVERABLES

- A. Meeting summaries with action items
- B. QC/QA Documentation
- C. Baseline design schedule
- D. Monthly Project Status Reports
- E. Monthly Invoices
- F. Public meeting exhibits and boards



TASK 2. CONCEPTUAL DESIGN (30 PERCENT).

The Conceptual Design shall be submitted to COUNTY per the approved Project Schedule.

The purpose of the conceptual design is for the CONSULTANT to identify, develop, communicate through the defined deliverables, and recommend the design concept that successfully addresses the design problem, and to obtain the COUNTY's endorsement of this concept.

CONSULTANT will develop the conceptual design of the infrastructure as follows:

2.1. Data Collection

- In addition to data obtained from the COUNTY, CONSULTANT will research and make efforts to obtain pertinent information to aid in coordination of the proposed improvements with any planned future improvements that may influence the project. CONSULTANT will also identify and seek to obtain data for existing conditions that may impact the project including utilities, agencies (TxDOT and railroads), City of Fort Worth Master Plans, and property ownership as available from the Tax Assessor's office.
- City of Fort Worth shall provide traffic impact analysis for adjacent developments as available.
- Traffic Data Collection
 - 12 hour turning movement counts at the three (3) intersections of Bonds Ranch and Willow Springs Road, Van Zandt Gate Lane, and Thatcher Road.

2.2. Subsurface Utility Engineering

- Provide Subsurface Utility Engineering (SUE) per **Task 6**.

2.3. Utility Clearance

- CONSULTANT will develop the design of City facilities to avoid or minimize conflicts with existing utilities, and where known and possible consider potential future utilities in designs. Where conflicts cannot be avoided, coordination of Utility Conflicts will begin at the Conceptual Design phase.
- CONSULTANT will provide plans and coordinate with utility owner related to the relocation efforts of franchise utilities that remain in conflict with the proposed construction per **Task 7**.

2.4. Geotechnical Investigation/Pavement Design

- Soil investigations, including field and laboratory tests, borings, related engineering analysis and recommendations for determining soil conditions will be made. In addition to the above investigations, borings and appropriate field and laboratory analysis will be made at reasonable intervals along the project alignment for the Contractor's use in determining soil conditions for preparing bids and a Trench Safety Plan.
- The CONSULTANT shall prepare a detailed geotechnical engineering study and pavement design in conformance with the City of Fort Worth Pavement Design



Standards Manual, 2015. The study shall include recommendations regarding utility trenching and identify existing groundwater elevation at each boring.

2.5. Traffic Study

- The CONSULTANT will evaluate Bonds Ranch Road from the Aviator Drive to Wagley Robertson Road for signal warrants and intersection capacity analysis at the following three (3) intersections:
 - Bonds Ranch Road and Willow Springs Road
 - Bonds Ranch Road and Van Zandt Gate Lane
 - Bonds Ranch Road and Thatcher Road
- for the following scenarios during the weekday AM and PM peak periods:
 - Existing Year (2025) Current Conditions
 - Existing Year (2025) Traffic Signal Conditions
 - Buildout Year (2030) Traffic Signal Conditions
 - Horizon Year (2040) Traffic Signal Conditions
- The CONSULTANT will use the ITE Trip Generation Manual, historic volumes, and adjacent development Traffic Impact Analysis to develop horizon year projected traffic conditions.
- Technical Memorandum
 - CONSULTANT will summarize the findings from Tasks 2.5 for COUNTY and CoFW review. This memorandum will consist of level of service comparisons for each intersection's alternative, average delay per vehicle for each approach, and total delay for each intersection alternative studied. The memorandum will include subsequent conclusions and recommendations based on the analytical data.

2.6. The Conceptual Design Package shall include the following:

- Preliminary cover and index of sheets including project limits, area location map and beginning and end station limits.
- Prepare right-of-way strip map.
- Existing and Proposed typical sections of the roadway to be constructed along with proposed typical sections which outline the proposed improvements. Typical sections shall include existing and proposed ROW, existing and proposed lane widths and direction arrows, existing and proposed curbs, sidewalks, and retaining walls.
- Conceptual plan and profile sheets showing existing and proposed horizontal roadway alignments, existing and proposed ROW, existing and proposed sidewalks and driveways, proposed lane dimensions and lane arrows, existing drainage structures, CoFW owned and franchise utilities, and existing roadway vertical alignments (profiles).



- CONSULTANT will delineate the watershed based on contour data and field verification and document existing street, right-of-way and storm drain capacities for the subject site. A drainage area map will be drawn at maximum 1" = 200' scale from available 2-foot contour data with the contours labeled. Data source and year will be provided by the City of Fort Worth. Calculations regarding street and right-of-way capacities and design discharges (5-year and 100-year frequencies) at selected critical locations will be provided. Other frequencies as required by iSWM criteria may be appropriate for outfalls and sensitive locations. Capacities of existing storm drain will be calculated and shown. All calculations shall conform to City of Fort Worth criteria delineated in the City of Fort Worth's current iSWM Criteria Manual for Site Development and Construction. All locations in the project area where 100-year runoff exceeds available storm drain and right-of-way capacities shall be clearly identified. The CONSULTANT's responsibility includes recommendations for improvements of the existing system as deemed reasonable and consistent with City of Fort Worth standards.
- Conceptual storm drain layout sheets showing location and size of all inlets, manholes, junction boxes, culverts and piping.
- Conceptual storm drain calculations for inlet design and hydraulic design of the storm drain network.
- Identify adjustments required, using the conceptual profile, for existing 36" City of Fort Worth water line including air release valves, blow-off valves and butterfly valves.
- Documentation of key design decisions.
- Estimates of probable construction cost.

ASSUMPTIONS

- Intersection capacity analysis will be completed with SYNCHRO.
- Traffic technical memorandum assumes up to two (2) revisions to be made to each report based on COUNTY and CoFW comments.
- Traffic technical memorandum assumes two (2) Review Meetings with the COUNTY and CoFW.
- All storm water calculations and design shall conform to the City of Fort Worth's current iSWM Criteria Manual for Site Development and Construction.
- PDF files created from design CAD drawings will be provided to the COUNTY.

DELIVERABLES

- A. Geotechnical Report per **Task 2.4**
- B. Traffic Engineering Study per **Task 2.5**
- C. Conceptual Design Package (Electronic)
- D. Opinion of Probable Construction Cost



TASK 3. PRELIMINARY DESIGN (60 PERCENT).

Preliminary plans and specifications shall be submitted to COUNTY per the approved Project Schedule.

CONSULTANT will develop the preliminary design of the infrastructure as follows:

3.1. The Preliminary Design Drawings and Specifications shall include the following:

- Address comments from the COUNTY and CoFW. Prepare comment response form.
- Preliminary cover and index of sheets including project limits, area location map and beginning and end station limits.
- General Notes
- Update right-of-way strip map and project easement layout sheets.
- SUE Plan sheets sealed by a licensed professional engineer registered in the State of Texas.
- A Project Control Sheet, showing all Control Points, used or set while gathering data. Generally, on a scale of not less than 1:400. The following information shall be indicated for each Control Point: Identified (existing City of Fort Worth Monument #8901, PK Nail, 5/8" Iron Rod); X, Y and Z Coordinates, in an identified coordinate system, and a referred bearing base. Z coordinate on City of Fort Worth Datum only; descriptive location (i.e. set in the centerline of the inlet in the South curb line of North Side Drive at the East end of radius at the Southeast corner of North Side Drive and North Main Street).
- Updated existing and proposed typical section sheets.
- Traffic Control Plans - in accordance with the latest edition of the Texas Manual on Uniform Traffic Control Devices.
 - Develop suggested sequence of construction narrative and overall phasing plan.
 - Prepare phasing layout sheets as needed including detour plans and typical sections.
 - Prepare traffic control details to clarify intent of design.
 - Compile applicable TxDOT standard details.
- Removal plan sheets.
- Updated roadway plan and profile sheets displaying station and coordinate data for all horizontal alignment P.C.'s, P.T.'s, P.I.'s; station and elevation data of all vertical profile P.C.'s, P.T.'s, P.I.'s, low points, and high points; lengths of vertical curves, grades, K values, e, and vertical clearances where required.
- Update transition on western end as necessary based on coordination for Bonds Ranch Road Segment 2 design.
- Side street and driveway plan and profile sheets



-
- Update design based on adjacent development plans. Plan updates to include median opening modifications, driveway connections, shared use path and grading modifications.
 - Retaining walls (if necessary)
 - Station equations relating utilities to paving, when appropriate.
 - Jointing plan
 - Preliminary roadway details to include curbs, curb expansion joints, driveways, sidewalks, pavement, streetlights, traffic signals and all applicable utility details.
 - Preliminary cross sections.
 - Preliminary signing, and pavement marking.
 - Illumination layouts.
 - Photometric analysis and exhibits for illumination layout.
 - Traffic Signal layout for Bonds Ranch Road and Willow Springs Road intersection.
 - Intersection layout sheets including ROW lines, horizontal alignments, utilities, curbs, sidewalks, driveways, and lane dimensions and arrows
 - Update existing and proposed drainage area maps
 - Storm drain layout sheets showing location and size of all inlets, manholes, junction boxes, culverts and piping to include storm drain profiles showing existing and proposed flow lines, flows, lengths and slopes of pipe, top of ground profile over pipe and connections to existing or proposed storm sewer systems.
 - Determine outfall grading requirements and provide plans and details for channel protection
 - Provide plan sheets and details to construct storm sewer outfalls
 - Update storm drain calculations for inlet design and hydraulic design of the storm drain network.
 - Minor utility adjustments such as manholes, water valves and fire hydrants. No water line or sanitary sewer relocations are anticipated.
 - Major utility adjustments for the existing 36" City of Fort Worth water line. This scope anticipates designing adjustments for up to four air release valves, three butterfly valves and one blow-off valve. Structural design is anticipated for the butterfly valves only.
 - Documentation of key design decisions.
- 3.2. Drainage/ Flood Study as described in **Task 8**
- 3.3. Estimate of probable construction cost (OPCC).



ASSUMPTIONS

- CONSULTANT shall not proceed with Final Design activities without written approval by the COUNTY of the Preliminary Design plans.

DELIVERABLES

- A. Preliminary Design drawings and specifications
- B. Opinion of Probable Construction Cost
- C. Drainage/ Flood Study in **Task 8**
- D. Community Meeting exhibits

TASK 4. FINAL DESIGN (90 PERCENT) AND FINAL CONSTRUCTION DOCUMENTS. (100 PRECENT).

Upon approval of the Preliminary plans, CONSULTANT will prepare construction plans as follows:

4.1. The Final Design Drawings and Specifications shall include the following:

- Final draft construction plans (90%) and Project Manual will be submitted to COUNTY per the approved Project Schedule.
- Update transition on western end as necessary based on coordination for Bonds Ranch Road Segment 2 design.
- Provide Utility Clearance per **Task 7**.
- Following a 90% construction plan review meeting with the CITY, the CONSULTANT will submit Final Plans (100%) to the CITY per the approved Project Schedule. Each plan sheet will be stamped, dated, and signed by the CONSULTANT registered in State of Texas.
- Drainage Study checklist in accordance with the current City of Fort Worth *iSWM Criteria Manual for Site Development and Construction*.
- A Quantity Summary page will be included in both the 90% and 100% design plans.
- The CONSULTANT will submit an estimate of probable construction cost with both the 90% and 100% design packages.

ASSUMPTIONS

- Drawings and specifications will be delivered electronically.

DELIVERABLES

- A. 90% construction plans and specifications
- B. Drainage/ Flood Study



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- C. Floodplain Development Permit
 - D. Final construction plans and specifications
 - E. Estimates of probable construction costs including summaries of bid items and quantities.
 - F. Digital cover sheet in PDF format for the signatures of authorized COUNTY officials.

TASK 5. ROW/EASEMENT SERVICES.

CONSULTANT will support and perform activities related to ROW and land as outlined below, per scoping direction and guidance from the COUNTY's Project Manager:

5.1. Right-of-Way Research

- The CONSULTANT shall determine rights-of-way and easement needs for construction of the project. Required temporary and permanent easements will be identified based on available information and recommendations will be made for approval by the COUNTY.

5.2. Right-of-Way/Easement Preparation and Submittal.

- The CONSULTANT shall prepare documents to be used to obtain right-of-way and permanent and/or temporary easements required to construct the improvements.
- The CONSULTANT shall prepare a ROW and Easement parcel reference map showing and designating all land interests for project. The map shall be revised as necessary throughout the land acquisition process.

ASSUMPTIONS

- Right-of-Way research includes review of property/right-of-way records based on current internet-based Tarrant Appraisal District (TAD) information available at the start of the project and available on-ground property information (i.e. iron rods, fences, stakes, etc.). It does not include effort for chain of title research, parent track research, additional research for easements not included in the TAD records, right-of-way takings, easement vacations and abandonments, right-of-way vacations, and street closures.

DELIVERABLES

- A. Easement exhibits and meets and bounds provided on COUNTY forms.
- B. ROW and Easement parcel map
- C. Temporary Right of Entry cover letters
- D. Temporary Right of Entry documents



TASK 6. SURVEY AND SUBSURFACE UTILITY ENGINEERING SERVICES.

CONSULTANT will provide survey support as follows.

6.1. Design Survey

- CONSULTANT will perform field surveys to collect horizontal and vertical elevations and other information needed by CONSULTANT in design and preparation of plans for the project. Information gathered during the survey shall include topographic data, elevations of all sanitary and adjacent storm sewers, rim/invert elevations, location of buried utilities, structures, trees (measure caliper, identify overall canopy, and have qualified arborist identify species of trees), and other features relevant to the final plan sheets. Existing drainage at intersections will be verified by field surveys. Spot elevations will be shown on intersection layouts with cross slope to fit intersecting grade lines.
- The minimum survey information to be provided on the plans shall include the following:
 - A Project Control Sheet, showing ALL Control Points, used or set while gathering data. Generally, on a scale of not less than 1:400:
 - The following information about each Control Point;
 - Identified (Existing. City of Fort Worth Monument #8901, PK Nail, 5/8" Iron Rod)
 - X, Y and Z Coordinates, in an identified coordinate system, and a referred bearing base. Z coordinate on City of Fort Worth Datum only.
 - Descriptive Location (Ex. Set in the centerline of the inlet in the South curb line of North Side Drive at the East end of radius at the Southeast corner of North Side Drive and North Main Street).
 - Coordinates on all P.C.'s, P.T.'s, P.I.'s, Manholes, Valves, etc., in the same coordinate system, as the Control.
 - No less than two horizontal benchmarks, per line or location.
 - Bearings given on all proposed centerlines, or baselines.
 - Station equations relating utilities to paving, when appropriate.

6.2. Subsurface Utility Engineering

Provide Subsurface Utility Engineering (SUE) to Quality Level *D*, *C*, *B*, and *A*, as described below. The SUE shall be performed in accordance with CI/ASCE 38-02.

Quality Level D

- Conduct appropriate investigations (e.g., owner records, COUNTY/ City of Fort Worth records, personal interviews, visual inspections, etc.), to help identify utility owners that may have facilities within the project limits or that may be affected by the project.
- Collect applicable records (e.g., utility owner base maps, "as built" or record drawings, permit records, field notes, geographic information system data, oral



histories, etc.) on the existence and approximate location of existing involved utilities.

- Review records for: evidence or indication of additional available records; duplicate or conflicting information; need for clarification.
- Develop SUE plan sheets and transfer information on all involved utilities to appropriate design plan sheets, electronic files, and/or other documents as required. Exercise professional judgment to resolve conflicting information. For information depicted, indicate utility type and ownership; date of depiction; quality level(s); end points of any utility data; line status (e.g., active, abandoned, out of service); line size and condition; number of jointly buried cables; and encasement.

Quality Level C (includes tasks as described for Quality Level D)

- Identify surface features, from project topographic data and from field observations, which are surface appurtenances of subsurface utilities.
- Include survey and correlation of aerial or ground-mounted utility facilities in Quality Level C tasks.
- Survey surface features of subsurface utility facilities or systems, if such features have not already been surveyed by a professional surveyor. If previously surveyed, check survey data for accuracy and completeness.
- The survey shall also include (in addition to subsurface utility features visible at the ground surface): determination of invert elevations of any manholes and vaults; sketches showing interior dimensions and line connections of such manholes and vaults; any surface markings denoting subsurface utilities, furnished by utility owners for design purposes.
- Exercise professional judgment to correlate data from various sources, and to resolve conflicting information.
- Update (or prepare) plan sheets, electronic files, and/or other documents to reflect the integration of Quality Level D and Quality Level C information.
- Recommend follow-up investigations (e.g., additional surveys, consultation with utility owners, etc.) as may be needed to further resolve discrepancies.
- Provide Quality Level C to identify overhead utilities on the project and provide the overhead utility information on the SUE plan sheets.

Level B (includes tasks as described for Quality Level C)

- Select and apply appropriate surface geophysical method(s) to search for and detect subsurface utilities within the project limits, and/or to trace a particular utility line or system.
- Based on an interpretation of data, mark the indications of utilities on the ground surface for subsequent survey. Utilize paint or other method acceptable for marking of lines.



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- Unless otherwise directed, mark centerline of single-conduit lines, and outside edges of multi-conduit systems.
 - Resolve differences between designated utilities and utility records and surveyed appurtenances.
 - Recommend additional measures to resolve differences if they still exist. Recommendations may include additional or different surface geophysical methods, exploratory excavation, or upgrade to Quality Level A data.
 - As an alternative to the physical marking of lines, the CONSULTANT may, with COUNTY's approval, utilize other means of data collection, storage, retrieval, and reduction, that enables the correlation of surface geophysical data to the project's survey control.

Level A

- Expose and locate utilities at specific locations where conflicts may occur.
- Tie horizontal and vertical location of utility to survey control.
- Provide utility size and configuration.
- Provide paving thickness and type, where applicable.
- Provide general soil type and site conditions and such other pertinent information as is reasonably ascertainable from each test hole site.

ASSUMPTIONS

- Prior to design, to supplement the design survey
- Up to fifteen (15) Level A test holes are included
- 50,000 LF of Level B/C/D (Design SUE)

DELIVERABLES

- A. Drawing of the project layout with dimensions and coordinate list.
- B. SUE plan drawings sealed by a professional engineer registered in the State of Texas.



TASK 7. FRANCHISE UTILITY COORDINATION.

7.1. Franchise Utility Coordination

- The CONSULTANT will consult with the CITY's Transportation and Public Works Department, Water Department, and other CITY departments, public utilities, private utilities, and government agencies to determine the approximate location of above and underground utilities, and other facilities (current and future) that have an impact or influence on the project.
- The CONSULTANT will schedule a kickoff meeting with all known franchise utility companies after the conceptual submittal to begin utility coordination process.
- The CONSULTANT will prepare conflict analysis matrix and provide a PDF set of plans with the utility conflicts highlighted and provide to utility companies.
- The CONSULTANT will meet with utility companies to review conflict analysis. The CONSULTANT will update plans to avoid conflicts where possible.
- The CONSULTANT will coordinate with franchise utility companies to obtain relocation schedule and work plan.
- The CONSULTANT will contact franchise utility companies on a monthly basis to obtain progress report. Update franchise utility status report each month.
- The CONSULTANT will host individual meetings with franchise utility companies as needed to coordinate the design.
- The CONSULTANT will coordinate with gas companies. Gas line coordination include meetings, communications and plan review with Gas Companies that have gas lines within the city right-of-way or in easements adjacent to the city right-of-way

ASSUMPTIONS

- One (1) kickoff meeting is assumed
- Four (4) Conflict Analysis review meetings
- Up to twelve (12) Progress Coordination Meetings are assumed
- Up to twelve (12) individual meetings are assumed
- 400 hours are assumed for **Task 7.**

DELIVERABLES

- A. Meeting Agendas and Notes
- B. Schedule and Progress Reports
- C. Plan Review Comments
- D. Utility conflict matrix



TASK 8 PERMITTING.

CONSULTANT will provide permitting support for the COUNTY to obtain any and all agreements and/or permits normally required for a project of this size and type, as follows:

8.1. Texas Department of Licensing and Regulation (TDLR)

- CONSULTANT is responsible for providing plans that are in compliance with TDLR requirements.
- Submit construction documents to the TDLR
- Completing all TDLR forms/applications necessary
- Obtain the Notice of Substantial Compliance from the TDLR
- Request an inspection from TDLR or a TDLR locally approved Registered Accessibility Specialist no later than 30 calendar days after construction substantial completion. Advise the COUNTY in writing of the results of the inspection.
- Responding to agency comments and requests
- All costs associated with TDLR plan review and inspections are to be paid by the CONSULTANT during the course of the project.

8.2. Storm Water Pollution Prevention Plan

- For projects that disturb an area greater than one (1) acre, the Contractor will be responsible for preparing and submitting the Storm Water Pollution Prevention Plan (SWPPP) with appropriate regulatory agencies. The CONSULTANT will prepare the iSWM Construction Plan according to the current *City of Fort Worth iSWM Criteria Manual for Site Development and Construction* which will be incorporated into the SWPPP by the contractor.

8.3. Environmental Services

- Waters of the United States delineation
 - Delineate the jurisdictional limits of the streams based on 33 CFR 328.3[e] and delineate the jurisdictional limits of any wetlands based on the 1987 USACE Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0), and any current Regulatory Guidance Letters. The boundaries of all these water features identified in the field will be recorded with a Global Positioning System (GPS) unit that is capable of sub-meter accuracy.
 - A delineation report will be generated that includes methods, results, and conclusions, along with necessary data forms, photographs, maps, and a delineation map.
- Section 404/ Nationwide Permit
 - Evaluate the proposed site plan to determine compliance with Section 404, specifically with the NWP program.



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- Evaluate the proposed project and what impacts the project has in waters of the United States to determine the USACE's scope and type of permit necessary for the impacts.
 - Document the NWP terms and conditions, General Conditions, and Fort Worth District Regional Conditionals for the applicable permit.
 - Document how the proposed project complies with each of these conditions.
 - Prepare Nationwide Permit Application Package
 - Protected Species Habitat Assessment
 - Gather the necessary data and complete the documentation required by the TPWD for Rare, Threatened, and Endangered Species. The initial data gathering will include the county list from the TPWD Wildlife Diversity Program and the USFWS Information, Planning, and Consulting System (IPaC)
 - A desktop habitat assessment will be performed to determine the potential for certain required habitats to be present within the project.
 - A letter report will be prepared that describes the habitats present on the site, the protected species that are listed in the county and their preferred habitats, and an evaluation of whether this preferred habitat is present on site. The report will also contain recommendation for any construction monitoring or mitigation measures to avoid impacts to migratory birds during primary nesting seasons that may overlap proposed construction schedules. If preferred habitats for protects species are located through the desktop study, CONSULTANT will provide recommendations to avoid impacts to high probability habitats to assist the COUNTY in maintaining budget and schedule on the development projects. If preferred habitats could not be avoided, TPWD may require species-specific survey to be performed.
 - Cultural Resources Pedestrian Survey
 - Obtain a Texas Antiquities Permit;
 - Complete a full pedestrian survey to document sites or features and historic bridges, buildings, or other structures older than 50 years of age;
 - Document any cultural resources encountered to make preliminary determinations of eligibility for inclusion in the NRHP or designated as a State Archaeological Landmark (SAL);
 - Analyze any artifacts recorded and/ or collected (if applicable);
 - Assess any previously recorded archaeological sites within the project are for their present condition (if applicable);
 - Complete and submitting State of Texas Archaeological Site Data Forms or Update Forms for any new or previously recorded sites to TARL and obtain site trinomial identification numbers documented within the APE for up to two sites (if applicable)



- Draft a technical report that documents the cultural resource background review, survey methods, survey results, and necessary NRHP eligibility assessment, and recommendations.
- Negotiating and coordinating to obtain approval of the agency issuing the agreement and/ or permits.
- Completing all forms/ applications necessary.
- Submitting forms/ applications for OWNER review
- Submitting revised forms for agency review
- Responding to agency comments and requests

8.4. Drainage/ Floodplain Services

- Based on existing conditions topography and the current roadway conditions, up to (2) drainage crossings have been identified within the project limits.
- The Big Fossil Creek Crossing is located within FEMA Zone A and Zone AE floodplain and the remainder are unmapped. A floodplain analysis will be performed for all crossings in accordance with City of Fort Worth Standards and the minimum requirements for the National Flood Insurance Program (NFIP) as administered by the Federal Emergency Management Agency (FEMA).
- It is intended that a drainage/flood study include all drainage information and planning for project limits and will include tasks associated with the development of the linear storm drain plans as well as the drainage crossings. Below is a summary of the tasks associated with the drainage/ flood study.

- Data Collection

- Topographic Survey:

- Channel cross-section survey of the two crossings
 - As-built survey of all current culvert crossings
 - Perform up to two (2) field visits to evaluate the site conditions and understand drainage patterns, as well as potential construction restraints.
 - Obtain available models from FEMA and the City of Fort Worth.
 - Obtain record drawings for construction plans for existing infrastructure and existing and proposed developments in the area.

- Drainage/ Flood Study

CONSULTANT shall perform a drainage/ flood study to evaluate peak discharges from the project site, determine storm drain infrastructure sizes and locations and ensure no adverse downstream impacts.

- Hydrology:

- Existing Discharges: Determine the contributing drainage areas for each existing crossing and compute the SCS unity hydrograph



hydrologic parameters associated with the drainage areas (area, weighted curve number, impervious percentage, time of concentration and rainfall intensity). Compute the anticipated pre-project storm water runoff of each roadway crossing.

- Proposed Discharges: Update any drainage areas and parameters based on the proposed roadway configuration.
- Fully Developed Discharge: Determine watershed hydrologic parameters for the 100-year fully developed conditions.
- Hydraulic Analysis:
 - Develop/ Update Cross-Sections: Data from the topographic survey of the Project and LIDAR will be used to generate cross section data. If there are any available studies of the area, this information will be incorporated as well.
 - Existing flow characteristics: Compute the existing 100-year flood elevations, velocities and typical flow characteristics for each crossing. The upstream and downstream limits will be established on a crossing specific basis.
 - Proposed flow characteristics: Compute the proposed 100-year flood elevations, velocities and typical flow characteristics for each crossing. The limits of analysis will extend to where there are no impacts, or the impacts meet City of Fort Worth criteria.
 - System Sizing: Using the proposed conditions discharges, establish approximate inlet locations and sizes, approximate storm drain sizes and drainage crossings (assumed culvert) sizes. Crossings and system will be sized to meet the City of Fort Worth criteria.
- Exhibits: Develop exhibits for use in discussions related to project and inclusion in the report.
- Report: Compile the above information into a report.

Deliverables and Submittals:

It is intended that the Drainage/ Flood Study Report be submitted with each plan submission.

- Conceptual Plan Submission: The Drainage/ Flood Study Report will include all available information with the intent of providing adequate sizes of drainage facilities to support the design. The intent is to allow the COUNTY and City of Fort Worth the ability to understand the configurations and impacts associated with drainage infrastructure so that coordination with adjacent utilities and landowners may begin.
- Preliminary Plan Submission: All Drainage/ Flood Study comments provided with the Conceptual Plan submission will be addressed and the Study will be modified and refined based on any changes in the plans from Conceptual Submission to Preliminary Submission.



- Final Plan Submission: All Drainage/ Flood Study comments provided with the Preliminary Plan submission will be addressed and the Study will be modified and refined based on any changes in the plans from Preliminary Submission to Final Submission. Comments received on this submission will be addressed promptly until the Study is approved.
- Floodplain Development Permit: Upon acceptance of the final drainage/ flood study, appropriate applications and checklists will be completed for assurance of a City of Fort Worth Floodplain Development Permit. .

8.5. Tree Removal Permit

- CONSULTANT shall coordinate with the City of Fort Worth Forester in the Park and Recreation Department (PARD), submit and obtain approval of a Tree Removal Permit when required.

ASSUMPTIONS

- Permit preparation will begin after approval of the Conceptual Design.
- The project will go through the City's development review process, or a similar process established for Capital Improvement Projects.
- All studies will meet City of Fort Worth iSWM Criteria.

DELIVERABLES

- A. Copies of Permit Applications
- B. Copies of Approved Permits

ADDITIONAL SERVICES NOT INCLUDED IN THE EXISTING SCOPE OF SERVICES

COUNTY and CONSULTANT agree that the following services are beyond the Scope of Services described in the tasks above. However, CONSULTANT can provide these services, if needed, upon the COUNTY's written request. Any additional amounts paid to the CONSULTANT as a result of any material change to the Scope of the Project shall be agreed upon in writing by both parties before the services are performed. These additional services include the following:

- Bidding Services
- Negotiation of easements or property acquisition, unless included as part of Section 7.
- Administration of the construction contract and inspection services
- Performance of materials testing or specialty testing services.
- Services related to damages caused by fire, flood, earthquake or other acts of God.
- Services to support, prepare, document, bring, defend, or assist in litigation undertaken or defended by the COUNTY.
- Performance of miscellaneous and supplemental services related to the project as requested by the COUNTY.

**Design Services for
Bonds Ranch Segment 3**

Compensation Summary

Kimley-Horn will perform the services in Tasks 1-6 and 8 for the lump sum fees summarized in the table below. All permitting, application, and similar project fees will be paid directly by the Client.

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

Kimley-Horn will perform the services in Task 7 on an hourly, labor fee plus expense basis with the maximum labor fee shown below.

Kimley-Horn will not exceed the total maximum labor fee shown for Task 7 without authorization from the Client.

Labor fee will be billed on an hourly basis. Direct reimbursable expenses such as express delivery services, air travel, and other direct expenses will be billed at 1.15 times cost. A percentage of labor fee will be added to each invoice to cover certain other expenses as to these tasks such as telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by the Client. Should the Client request Kimley-Horn to advance any such project fees on the Client's behalf, an invoice for such fees, with a fifteen percent (15%) markup, will be immediately issued to and paid by the Client.

Task Summary Table

Task Number & Name		Fee	Type
1	Design Management	\$169,000	Lump Sum
2	Conceptual Design (30%)	\$304,000	Lump Sum
3	Preliminary Design (60%)	\$775,000	Lump Sum
4	Final Design (90% & 100%)	\$708,000	Lump Sum
5	ROW / Easement Services	\$19,000	Lump Sum
6	Survey and Subsurface Utility Engineering Services	\$245,000	Lump Sum
7	Franchise Utility Coordination	\$95,000	Hourly
8	Permitting	\$151,000	Lump Sum
Total		\$2,466,000	

Hourly Labor Rate Schedule

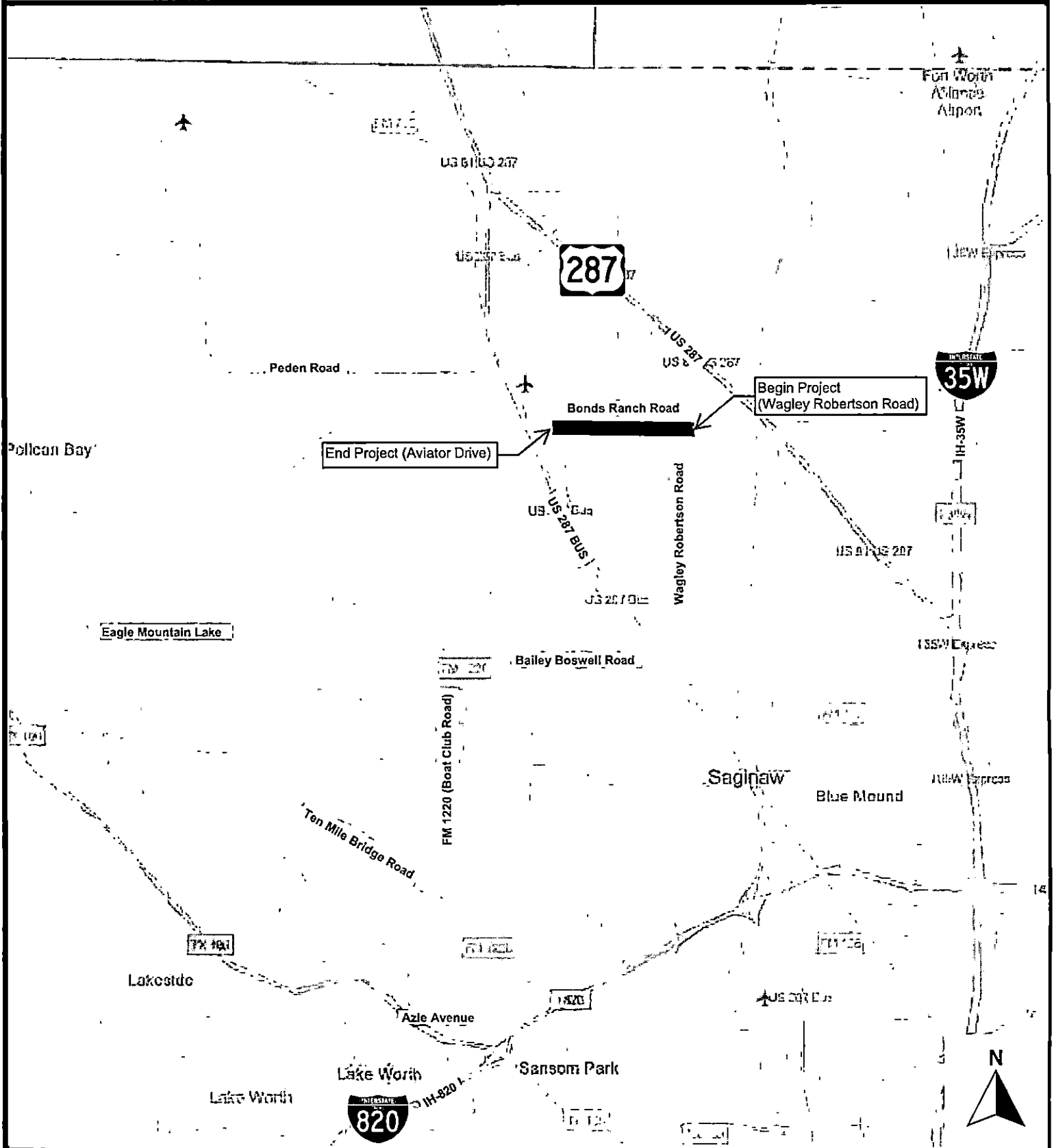
Classification	Rate
EIT I, II, III	\$165 - \$250
Project Engineer	\$235 - \$300
Project Manager	\$260 - \$360
Senior Project Engineer	\$345 - \$380
Project Director	\$360 - \$420
Admin	\$110 - \$150

Effective through December 31, 2025

Subject to adjustment thereafter

BONDS RANCH ROAD SEGMENT 3

Attachment C - Project Location Map



**Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Bonds Ranch Road - Segment 3**

Task No.	Task Description	Labor (hours)										Expense	Task Sub Total
		Senior Project Manager	Project Manager	Senior Project Engineer	Project Engineer	ET I	ET II	ET III	Admin	Total Labor Cost	Subcontractant		
1.0	Design Management	69	192	0	20	192	0	165	52	\$169,000	\$0	\$0	\$169,000
1.1	Managing the team	18	18	18	18	18	18	18	18	\$20,160	\$0	\$0	\$20,160
1.1.1	Internal Team Meetings	5	5	5	5	5	5	5	5	\$28,020	\$0	\$0	\$28,020
1.1.2	General Project Coordination	12	12	12	12	12	12	12	12	\$5,640	\$0	\$0	\$5,640
1.2	Communications and Reporting	6	6	6	6	6	6	6	6	\$5,640	\$0	\$0	\$5,640
1.2.1	Pre-Design Coordination Meeting	6	6	6	6	6	6	6	6	\$5,640	\$0	\$0	\$5,640
1.2.2	Monthly Project Update Meetings	12	12	12	12	12	12	12	12	\$15,120	\$0	\$0	\$15,120
1.2.3	Design Submittal Review Meetings	12	12	12	12	12	12	12	12	\$17,280	\$0	\$0	\$17,280
1.2.4	Coordination Meetings with City of Fort Worth	16	16	16	16	16	16	16	16	\$10,560	\$0	\$0	\$10,560
1.2.5	Monthly Bonds Month Coordination Calls	18	18	18	18	18	18	18	18	\$5,760	\$0	\$0	\$5,760
1.2.6	Prepare Baseline Schedule	2	2	2	2	2	2	2	2	\$2,280	\$0	\$0	\$2,280
1.2.7	Prepare Monthly Progress Reports	12	12	12	12	12	12	12	12	\$7,800	\$0	\$0	\$7,800
1.2.8	Invocing	12	12	12	12	12	12	12	12	\$9,040	\$0	\$0	\$9,040
1.3	Consultancy Review	10	10	10	10	10	10	10	10	\$12,200	\$0	\$0	\$12,200
1.4	Public Involvement	7	7	7	7	7	7	7	7	\$8,680	\$0	\$0	\$8,680
1.4.1	Planning Meeting (2)	4	4	4	4	4	4	4	4	\$8,680	\$0	\$0	\$8,680
1.4.2	Debnal Meeting (2)	2	2	2	2	2	2	2	2	\$8,680	\$0	\$0	\$8,680
1.4.3	Public Meeting (2)	2	2	2	2	2	2	2	2	\$7,840	\$0	\$0	\$7,840
1.4.4	Project Exhibits	2	2	2	2	2	2	2	2	\$9,520	\$0	\$0	\$9,520
2.0	Conceptual Design (30%)	55	131	68	72	280	87	420	0	\$249,000	\$50,000	\$5,000	\$304,000
2.1	Traffic Counts	10	10	10	10	10	10	10	10	\$7,000	\$0	\$0	\$7,000
2.1.1	Traffic Counts	10	10	10	10	10	10	10	10	\$5,600	\$0	\$0	\$5,600
2.2	Subsurface Utility Engineering	5	5	5	5	5	5	5	5	\$3,800	\$0	\$0	\$3,800
2.2.1	Site Visit	5	5	5	5	5	5	5	5	\$3,800	\$0	\$0	\$3,800
2.3	Utility Design and Coordination	25	25	25	25	25	25	25	25	\$9,190	\$45,000	\$45,000	\$49,500
2.3.1	Intersection Capacity Analysis	5	5	5	5	5	5	5	5	\$3,190	\$0	\$0	\$3,190
2.3.2	Intersection Signal Warrants	15	15	15	15	15	15	15	15	\$11,240	\$0	\$0	\$11,240
2.3.3	Technical Memorandum	5	5	5	5	5	5	5	5	\$12,720	\$0	\$0	\$12,720
2.5	Traffic Study	25	25	25	25	25	25	25	25	\$9,190	\$0	\$0	\$9,190
2.5.1	Intersection Capacity Analysis	5	5	5	5	5	5	5	5	\$3,190	\$0	\$0	\$3,190
2.5.2	Intersection Signal Warrants	15	15	15	15	15	15	15	15	\$11,240	\$0	\$0	\$11,240
2.5.3	Technical Memorandum	5	5	5	5	5	5	5	5	\$12,720	\$0	\$0	\$12,720
2.6	Cover & Index Sheets	5	5	5	5	5	5	5	5	\$300	\$0	\$0	\$300
2.6.1	Cover & Index Sheets	5	5	5	5	5	5	5	5	\$300	\$0	\$0	\$300
2.6.2	Right-of-Way Strip Map	2	2	2	2	2	2	2	2	\$1,900	\$0	\$0	\$1,900
2.6.3	Existing Typical Sections	2	2	2	2	2	2	2	2	\$5,440	\$0	\$0	\$5,440
2.6.4	Proposed Typical Sections	2	2	2	2	2	2	2	2	\$5,440	\$0	\$0	\$5,440
2.6.5	Paving Plan & Profile Sheets	3	3	3	3	3	3	3	3	\$4,610	\$0	\$0	\$4,610
2.6.6	Drainage Area Map (Existing & Proposed)	2	2	2	2	2	2	2	2	\$10,820	\$0	\$0	\$10,820
2.6.7	Conceptual Storm Drain Layout Sheets	10	10	10	10	10	10	10	10	\$31,300	\$0	\$0	\$31,300
2.6.8	Conceptual Storm Drain Calculations	4	4	4	4	4	4	4	4	\$12,480	\$0	\$0	\$12,480
2.6.9	Utility Adjustments	15	15	15	15	15	15	15	15	\$13,000	\$0	\$0	\$13,000
2.6.10	CA/QC Process	20	20	20	20	20	20	20	20	\$20,400	\$0	\$0	\$20,400
2.7	Option of Probable Construction Cost & Quantities	4	4	4	4	4	4	4	4	\$41,280	\$0	\$0	\$41,280
2.7.1	Address Q/C/C Comments	30	30	30	30	30	30	30	30	\$11,320	\$0	\$0	\$11,320
3.0	Primary Design (60%)	127	311	435	711	605	250	1038	0	\$775,000	\$0	\$0	\$775,000
3.1	Final Design Drawings and Specifications	15	15	15	15	15	15	15	15	\$21,600	\$0	\$0	\$21,600
3.1.1	Create Comment Response Matrix and Address Stakeholder Comments	2	2	2	2	2	2	2	2	\$1,440	\$0	\$0	\$1,440
3.1.2	General Notes	2	2	2	2	2	2	2	2	\$8,040	\$0	\$0	\$8,040
3.1.3	Updates Cover & Index Sheets	10	10	10	10	10	10	10	10	\$4,000	\$0	\$0	\$4,000
3.1.4	Updates Right-of-Way Strip Map	5	5	5	5	5	5	5	5	\$6,960	\$0	\$0	\$6,960
3.1.5	Existing Utility SUBE Sheets	2	2	2	2	2	2	2	2	\$5,520	\$0	\$0	\$5,520
3.1.6	Update Existing Typical Sections	2	2	2	2	2	2	2	2	\$7,360	\$0	\$0	\$7,360
3.1.7	Update Proposed Typical Sections	2	2	2	2	2	2	2	2	\$27,680	\$0	\$0	\$27,680
3.1.8	Traffic Control Plan & Proposed Phasing Plan	4	4	4	4	4	4	4	4	\$19,240	\$0	\$0	\$19,240
3.1.9	Removal Plan Sheets	2	2	2	2	2	2	2	2	\$101,200	\$0	\$0	\$101,200
3.1.10	Update Paving Plan & Profile Sheets	20	20	20	20	20	20	20	20	\$28,840	\$0	\$0	\$28,840
3.1.11	Side street Paving Plan & Profile Sheets	2	2	2	2	2	2	2	2	\$28,840	\$0	\$0	\$28,840
3.1.12	Driveway Plan & Profile Sheets	2	2	2	2	2	2	2	2	\$28,840	\$0	\$0	\$28,840
3.1.13	Design Coordination and Updates for Adjacent Developments	2	2	2	2	2	2	2	2	\$17,840	\$0	\$0	\$17,840
3.1.14	Paving Details	1	1	1	1	1	1	1	1	\$8,540	\$0	\$0	\$8,540
3.1.15	3D Model & Cross Sections	2	2	2	2	2	2	2	2	\$79,240	\$0	\$0	\$79,240
3.1.16	Signing Sheets	1	1	1	1	1	1	1	1	\$12,820	\$0	\$0	\$12,820
3.1.17	Drainage Marking Sheets	1	1	1	1	1	1	1	1	\$12,820	\$0	\$0	\$12,820
3.1.18	Illumination Sheets	2	2	2	2	2	2	2	2	\$36,040	\$0	\$0	\$36,040
3.1.19	Photometrics Analysis	6	6	6	6	6	6	6	6	\$33,920	\$0	\$0	\$33,920
3.1.20	Photometrics Exhibits	10	10	10	10	10	10	10	10	\$14,520	\$0	\$0	\$14,520
3.1.21	Traffic Signal Layout Sheets	2	2	2	2	2	2	2	2	\$28,340	\$0	\$0	\$28,340

**Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Bonds Ranch Road - Segment 3**

Task No.	Task Description	Labor (hours)								Total Labor Cost	Expense		Task Sub Total
		Senior Project Manager	Project Manager	Senior Project Engineer	Project Engineer	EIT III	EIT II	EIT I	Admin		Subconsultant	Expense Markup	
3.1.22	Update Drainage Area Map (Existing & Proposed)	4	4	5	5	5			20	\$10,160		\$0	\$10,160
3.1.23	Update Storm Drain Sheets	4	20	20	60	60			120	\$61,680		\$0	\$61,680
3.1.24	Culvert Crossing Sheets	20	20	30	20	20			20	\$35,600		\$0	\$35,600
3.1.25	Headwall and Channel Sheets	2	5	20	10	10			10	\$14,240		\$0	\$14,240
3.1.26	Stormwater Calcs	10	20	30	30	100				\$46,200		\$0	\$46,200
3.1.27	Design Major Utility Adjustments (air release, blow-off and butterfly valves)	4	30		30	30			80	\$38,880		\$0	\$38,880
3.1.28	QA/QC Process	20	20	20						\$20,400		\$0	\$20,400
3.1.29	Address QA/QC Comments	2	10		30	30			100	\$35,240		\$0	\$35,240
3.2	Opinion of Probable Construction Cost & Quantities		5		5	5			20	\$7,400		\$0	\$7,400
4.0	Final Design (90% & 100%)	136	357	205	968	0	135	1230	0	\$708,000	\$0	\$0	\$708,000
4.1	Final Design Plans and Specifications												
4.1.1	Update Comment Response Matrix and Address Stakeholder Comments	2	10		40			40		\$20,840		\$0	\$20,840
4.1.2	Update Cover & Index Sheets							4		\$720		\$0	\$720
4.1.3	General Notes	1	4		4			4		\$3,380		\$0	\$3,380
4.1.4	Update Existing Utility/ SUE Sheets		2		5			10		\$3,640		\$0	\$3,640
4.1.5	Update Right-of-way Strip Map	1			5			12		\$3,780		\$0	\$3,780
4.1.6	Update Existing Typical Sections		10		10			40		\$13,220		\$0	\$13,220
4.1.7	Update Proposed Typical Sections	1	10		10			10		\$13,220		\$0	\$13,220
4.1.8	Update Traffic Control Plan & Proposed Phasing Plan	2	30		80			180		\$62,040		\$0	\$62,040
4.1.9	Update Removal Plan Sheets	1	4		20			60		\$17,300		\$0	\$17,300
4.1.10	Update Paving Plan & Profile Sheets	2	20		60			120		\$43,240		\$0	\$43,240
4.1.11	Update Side Street Plan & Profile Sheets	2	10		30			30		\$16,640		\$0	\$16,640
4.1.12	Update Driveway Plan & Profile Sheets	2	10		30			30		\$16,640		\$0	\$16,640
4.1.13	Design Coordination and Updates for Adjacent Developments	2	10		20			30		\$14,240		\$0	\$14,240
4.1.14	Joining Plan	2	8		20			40		\$15,400		\$0	\$15,400
4.1.15	Update Paving Details	1	4		9			10		\$5,660		\$0	\$5,660
4.1.16	Update 3D Model & Cross Sections	2	20	40	150					\$54,440		\$0	\$54,440
4.1.17	Update Signing Sheets			10	10			30		\$10,600		\$0	\$10,600
4.1.18	Update Pavement Marking Sheets			10	10			30		\$10,600		\$0	\$10,600
4.1.19	Update Illumination Sheets	4	20		40			80		\$32,080		\$0	\$32,080
4.1.20	Update Traffic Signal Layout Sheets	4	20		30			55		\$25,730		\$0	\$25,730
4.1.21	Update Drainage Area Map (Existing & Proposed)	4	5	5	5			20		\$9,480		\$0	\$9,480
4.1.22	Update Storm Drain Sheets	4	20	20	40			100		\$41,280		\$0	\$41,280
4.1.23	Update Culvert Crossing Sheets	10	15	20	30			60		\$32,600		\$0	\$32,600
4.1.24	Update Headwall and Channel Sheets	2	5	10	10			20		\$11,240		\$0	\$11,240
4.1.25	Update Stormwater Calcs	20	20	30	80					\$42,400		\$0	\$42,400
4.1.26	Update Utility Adjustment Sheets	10	20		40			40		\$27,400		\$0	\$27,400
4.1.27	QA/QC Process - 90%	20	20	20						\$20,400		\$0	\$20,400
4.1.28	Address QA/QC Comments	2	10		60			100		\$36,440		\$0	\$36,440
4.1.29	QA/QC Process Final	20	20	20						\$20,400		\$0	\$20,400
4.1.30	Address QA/QC Comments	2	10		60			100		\$36,440		\$0	\$36,440
4.2	Project Manual	10	20		40					\$20,200		\$0	\$20,200
4.3	Opinion of Probable Construction Cost & Quantities	2	20		20			80		\$26,440		\$0	\$26,440
5.0	ROW / Easement Services	0	18	0	0	30	0	0	0	\$11,300	\$7,000	\$7,000	\$18,300
5.1	Right-of-Way Research		8			10				\$4,560		\$0	\$4,560
5.2	Right-of-Way / Easement Preparation and Submittal		10			20				\$7,200	\$7,000	\$7,000	\$14,900
6.0	Survey and Subsurface Utility Engineering Services	0	20	80	0	150	0	40	0	\$65,700	\$163,000	\$16,300	\$245,000
6.1	Office Work			80		100		40		\$49,600		\$0	\$49,600
6.2	Field Work									\$0	\$30,000	\$3,000	\$33,000
6.3	Subsurface Utility Engineering												
6.3.1	SUE QLA Test Holes		10			20				\$7,200	\$53,000	\$5,300	\$65,500
6.3.2	SUE QLA B/C/D Designating		10			30				\$9,200	\$80,000	\$8,000	\$97,200
7.0	Franchise & Gas Utility Line Coordination (Hourly)	10	24	0	142	228	0	20	0	\$95,000	\$0	\$0	\$95,000
7.0.1	Obtain Design Files					10				\$2,000		\$0	\$2,000
7.0.2	Determine Utility Conflicts (30%, 60%, 90%, 100%)		2		10	40		20		\$14,640		\$0	\$14,640
7.0.3	Prepare Initial Utility Conflict Matrix		2		10	10				\$5,040		\$0	\$5,040
7.0.4	Update Utility Conflict Matrix (80%, 80%, 100%)		1		2	3				\$1,400		\$0	\$1,400
7.0.5	Establish Contact with Utility Companies		2		20	20				\$9,440		\$0	\$9,440
7.0.6	Develop and provide Utility Contact List		2		10	10				\$5,040		\$0	\$5,040
7.0.7	Provide initial notification letters to utility companies		1		5	15				\$4,520		\$0	\$4,520
7.0.8	Provide required relocation letters to utility companies		1		5	20				\$5,520		\$0	\$5,520
7.0.9	Coordinate conflicts with utility companies		4		40	40				\$18,880		\$0	\$18,880
7.0.10	Evaluate alternatives		5		20	20				\$12,180		\$0	\$12,180
7.0.11	Review utility relocation plans		5		20	20				\$12,180		\$0	\$12,180
7.0.12	Schedule utility coordination meetings					20				\$4,000		\$0	\$4,000

**Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Bonds Ranch Road - Segment 3**

Task No.	Task Description	Labor (hours)								Total Labor Cost	Expense		Task Sub Total
		Senior Project Manager	Project Manager	Senior Project Engineer	Project Engineer	EIT III	EIT II	EIT I	Admin		Subconsultant	Expense Markup	
8.0	Permitting	99	38	60	130	130	110	0	0	\$148,800	\$2,000	\$200	\$151,000
8.1	TDCR		10							\$4,000	\$2,000	\$200	\$6,200
8.2	Stormwater Water Pollution Prevention Plan	4	15				30			\$12,480		\$0	\$12,480
8.3	Environmental Services												
8.3.1	Water of the United States Delineation		10				30			\$10,200		\$0	\$10,200
8.3.2	Section 404/ Nationwide Permit		15				30			\$12,300		\$0	\$12,300
8.3.3	Protected Species Habitat Assessment		10				30			\$10,200		\$0	\$10,200
8.3.4	Cultural Resource Pedestrian Survey		4				6			\$2,880		\$0	\$2,880
8.4	Drainage/ Flood Study												
8.4.1	HEC-RAS Modeling		10		20		40			\$16,600		\$0	\$16,600
8.4.2	Stormwater Study Report		5		20		25			\$10,700		\$0	\$10,700
8.4.3	Proposed Flood Study		5		20		10			\$8,800		\$0	\$8,800
8.4.4	Proposed HEC-RAS Modeling - Big Fossil Creek Crossing		10		20		20			\$12,800		\$0	\$12,800
8.4.5	Upstream & Downstream Channel Analysis		5		15		10			\$7,600		\$0	\$7,600
8.4.6	Flood Study Report		20	10	60	15	10			\$33,900		\$0	\$33,900
8.5	Tree Removal Permit		1		3		20			\$6,180		\$0	\$6,180
	Totals	492	1090	748	2043	1816	592	2914	62	\$2,221,800	\$222,000	\$22,200	\$2,466,000

Project Summary	
Total Hours	9,547
Total Labor	\$2,221,800
Total Expense	\$222,000
Subconsultant	\$222,000
Sub Markup	\$22,200
Total Cost	\$2,466,000

