

**WORK AUTHORIZATION NO. 3**

**WILLIAMSON COUNTY ROAD BOND PROJECT:  
East Wilco Highway & CR 137 Traffic Signal**

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated September 17, 2024 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Kimley-Horn and Associates, Inc. (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is \$56,180.00.

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

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on September 30, 2027. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

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

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

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

*Continued next page*

EXECUTED this \_\_\_\_\_.

ENGINEER:

Kimley-Horn and Associates, Inc.

COUNTY:

Williamson County, Texas

By: Brian Boecker  
Signature

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

Brian Boecker  
Printed Name

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

Senior Vice President  
Title

\_\_\_\_\_  
Title

#### LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

**APPROVED**

*By Christen Eschberger at 1:06 pm, Apr 22, 2025*

**WORK AUTHORIZATION NO. 3**

**PROJECT: East Wilco Highway & CR 137 Traffic Signal**

**ATTACHMENT A  
Services to be provided by the County**

**Project Location:** East Wilco Highway & CR 137

**Project Description:** Traffic Signal Warrant Study, Traffic Signal Design

**SCOPE OF WORK**

This project will consist of developing a traffic signal warrant study and developing traffic signal design plans for a new traffic signal at the intersection of East Wilco Highway & CR 137 in Williamson County, Texas. The proposed traffic signal is anticipated to be owned, operated, and maintained by Williamson County after construction.

**SERVICES TO BE PROVIDED BY THE COUNTY**

Williamson County (the County) shall provide all information reasonably requested by Kimley-Horn (the Engineer) during the project, including but not limited to the following:

- Topographical, utility (QL B), and right-of-way survey for at least 300' in all directions from the center of the intersection.
- Design CAD files for the County's recent East Wilco Highway (segments 1 & 2) projects.
- Provide available copies of associated survey, roadway plans, models, studies, and coordination with ongoing related county projects.
- Provide a Registered Accessibility Specialist for TDLR review, registration, and inspection (if required).
- Obtain franchise utility records and coordinate with franchise utilities for any necessary relocations.
- Provide current set of Project Manual documents.
- Provide timely responses to requests for information or clarification.
- Provide timely decisions and reviews of submittals.
- Process payment to the Engineer in a timely manner.
- Payment of plan review, permitting, application, or similar fees.

**WORK AUTHORIZATION NO. 3**

**PROJECT: East Wilco Highway & CR 137 Traffic Signal**

**ATTACHMENT B  
Services to be provided by the Engineer**

**Project Location:** East Wilco Highway & CR 137

**Project Description:** Traffic Signal Warrant Study, Traffic Signal Design

**SCOPE OF WORK**

This project will consist of developing a traffic signal warrant study and developing traffic signal design plans for a new traffic signal at the intersection of East Wilco Highway & CR 137 in Williamson County, Texas. The proposed traffic signal is anticipated to be owned, operated, and maintained by Williamson County after construction.

**SERVICES TO BE PROVIDED BY THE ENGINEER**

**Task 1. Project Management**

The Engineer will maintain project files throughout all phases of the project consisting of documentation of all correspondence, meeting notes, telephone calls, emails, etc. Invoices and progress reports will be submitted monthly.

The Engineer will attend up to three (3) total meetings (kick-off, coordination, and/or design review) with County staff. The Engineer will prepare a meeting agenda and meeting minutes for each meeting.

**Task 2. Traffic Signal Warrant Study**

The Engineer will prepare a traffic signal warrant study for the intersection of East Wilco Highway & CR 137. The traffic signal warrant study will be based on the criteria specified in the 2011 Edition of the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

The Engineer will complete the following tasks as part of the traffic signal warrant study:

1. Collect existing lane geometries, inventory traffic control devices, and document speed limits for the study intersection.
2. Utilize a subcontractor to collect vehicle turning movement counts at the study intersection on a typical weekday (Tuesday-Thursday) between 6:00am and 9:00pm for up to two (2) days.
3. Obtain historical crash data from publicly available TxDOT databases for the latest three years available.

4. Prepare and submit a technical memorandum to summarize the findings and recommendations of the traffic signal warrant study. The specific items to be prepared for the technical memorandum include:
  - a. Analyze signal warrants from TMUTCD based on site conditions, vehicle turning movement counts, and crash data.
  - b. Determine the applicable traffic control device that is warranted at the study intersection.
  - c. Prepare a draft technical memorandum for Williamson County review.
  - d. Address one round of Williamson County comments and prepare a final technical memorandum for Williamson County review and approval.

### **Task 3. Traffic Signal Design**

The Engineer will prepare construction documents consisting of plans, specifications, and estimates (PS&E) for the installation of a four-approach traffic control signal at the intersection of East Wilco Highway & CR 137.

The Engineer will complete the following tasks as part of the design phase:

1. Assemble applicable design standards and specifications from Williamson County and TxDOT.
2. Obtain available existing record drawings and copies of all relevant design files from the County.
3. Perform field reconnaissance of the intersection to determine existing pavement widths, lane configurations, traffic control devices, speed limits, and utility locations.
4. Develop plans to construct a new traffic signal at the intersection. The signal plans will be prepared at a scale of 1" = 40' on 11" x 17" plan sheets and will include the following components:
  - a. Title Sheet and Index of Sheets
  - b. General Notes (based on standard notes for Williamson County Road Bond Program and modified as appropriate for this project).
  - c. Existing Conditions sheet to show locations of existing traffic control devices, and both underground/overhead utilities at the intersection. This sheet will notate any existing traffic control devices to be removed.
  - d. Proposed Signal Layout sheet to show the locations of proposed signal poles, signal heads, signal cabinet, detection equipment, communication equipment, electrical conduits, ground boxes, and electrical service.
    - i. The Engineer assumes that the traffic signal will include pedestrian signal heads and push buttons across one leg of the intersection.

- ii. The Engineer assumes one advance roadside flashing beacon assembly, with a cable connection to the controller cabinet, will be incorporated into the design on the northbound approach to the intersection.
  - e. Signal Elevation sheet to show placement of signal heads on mast arms and required vertical clearance.
  - f. Conduit Chart and Electrical Wiring sheet to show the type and number of electrical wires in each conduit run and inside poles and mast arms. A new electrical service will be designed to support total electrical load due to the new traffic signal and safety lighting at the intersection. The electrical service will include two separate circuits for the traffic signal and illumination.
  - g. Signing & Pavement Marking sheet to show modifications to existing signs & pavement markings that are required to change the intersection from unsignalized to signalized operation (ex; stop bars).
5. Review and select appropriate standard details and incorporate those details into the plans (including traffic control, traffic signal, sign, and pavement marking standard details as applicable).
6. Prepare a list of pay items, specifications, and construction quantities required to build the proposed traffic signal infrastructure.
7. Prepare an opinion of probable construction costs (OPCC) to accompany each plan submittal in Microsoft Excel format based on Williamson County provided template.
- a. Kimley-Horn has no control over the cost of labor, materials, equipment, or over the construction Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Kimley-Horn at this time and represent only Kimley-Horn's judgement as a design professional familiar with the construction industry. Kimley-Horn cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.
8. Coordinate with Oncor (or other local electric utility) to establish the location of a new electrical service.
9. Perform internal quality control reviews prior to each submittal.
10. Submit milestone deliverables for Williamson County review at the 90% and 100% stages of completeness. All deliverables will be provided in electronic PDF format only.
11. Address one round of comments for the 90% submittal and incorporate those comments into the plans as appropriate.

### **Additional Services**

Any services not specifically provided for in the above scope will be considered additional services and may be performed at current contracted hourly rates upon mutual agreement of the parties. Items that are not provided as a part of this project and would be additional services consist of but are not limited to:

- Preparation of plans for a temporary/interim traffic signal.
- Illumination design except for intersection safety lighting mounted on top of signal poles.
- Collecting topographic survey and subsurface utility data.
- Preparation of ROW or easement exhibits.
- Environmental analysis.
- Roadway and/or driveway design.
- Sidewalk, shared use path, or other pedestrian/bicycle facility design.
- Hydrology/hydraulic analysis and/or drainage design.
- Structural design.
- Utility relocation design.
- Coordination with utility providers for purposes of utility relocation.
- Geotechnical engineering.
- Attendance at public hearings or meetings beyond those listed in the scope.
- Bid phase support, including preparation of a Project Manual and/or bidding documents.
- Construction phase support.
- Preparation and/or implementation of traffic signal timing plans.
- Additional analyses or major re-work required because of County comments that are inconsistent with Kimley-Horn's original direction.
- Payment of permit, plan review, application, or similar fees.

Kimley-Horn will not provide construction engineering, inspection, or material testing services as part of this project.

ATTACHMENT C: WORK SCHEDULE



Project Name: East Wilco Highway & CR 137 Traffic Signal  
Project Description: Traffic Signal Warrant Study, Traffic Signal Design  
Prepared By: Kimley-Horn and Associates, Inc.

| Task # | Task Name                                      | Construction | Month 1 |        | Month 2 |        | Month 3 |        | Month 4 |        | Month 5 |        | Month 6 |        | Month 7 |        | Month 8 |        | Month 9 |        | Month 10 |        | Month 11 |        | Month 12 |        |        |
|--------|------------------------------------------------|--------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|----------|--------|----------|--------|----------|--------|--------|
|        |                                                |              | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1  | Week 4 | Week 1   | Week 4 | Week 1   | Week 4 | Week 1   | Week 4 | Week 1 |
| 1      | Project Management                             |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
| 2      | Traffic Signal Warrant Study                   |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | Data Collection                                |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | Draft Memorandum                               |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | County Review                                  |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | Final Memorandum                               |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
| 3      | Traffic Signal Design                          |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | Data Collection, SUE Investigation (By Others) |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | 90% Design                                     |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | County Review                                  |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | 100% Design                                    |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |
|        | County Review                                  |              |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |          |        |          |        |          |        |        |

**Work Authorization 3 - Attachment D  
Fee Schedule**



Project Name:

East Wilco Highway & CR 137 Traffic Signal

|                                        | Sr. Engineer I                                                                  | Professional | Analyst      | Support Staff | Total Labor Hours | Direct Labor Cost  | Direct Expenses/<br>Subconsultant | Total Cost         |
|----------------------------------------|---------------------------------------------------------------------------------|--------------|--------------|---------------|-------------------|--------------------|-----------------------------------|--------------------|
|                                        | \$265.00                                                                        | \$225.00     | \$185.00     | \$125.00      |                   |                    |                                   |                    |
| <b>1. PROJECT MANAGEMENT</b>           |                                                                                 |              |              |               |                   |                    |                                   |                    |
| <b>a</b>                               | Project Setup                                                                   | 4.0          |              | 4.0           | 8.0               | \$1,400.00         |                                   | \$1,400.00         |
| <b>b</b>                               | Coordination / Plan Review Meetings                                             | 9.0          | 12.0         |               | 21.0              | \$5,085.00         |                                   | \$5,085.00         |
| <b>c</b>                               | Monthly Reporting / Invoicing                                                   | 2.0          |              | 4.0           | 6.0               | \$950.00           |                                   | \$950.00           |
|                                        | <b>Subtotal</b>                                                                 | <b>9.0</b>   | <b>18.0</b>  | <b>8.0</b>    | <b>35.0</b>       | <b>\$7,435.00</b>  |                                   | <b>\$7,435.00</b>  |
| <b>2. TRAFFIC SIGNAL WARRANT STUDY</b> |                                                                                 |              |              |               |                   |                    |                                   |                    |
| <b>a</b>                               | Inventory Existing Traffic Control Devices                                      | 1.0          | 3.0          |               | 4.0               | \$780.00           |                                   | \$780.00           |
| <b>b</b>                               | Traffic Data Collection (turning movement counts for 2 days / 15 hours per day) | 1.0          | 3.0          |               | 4.0               | \$780.00           | \$3,210.00                        | \$3,990.00         |
| <b>c</b>                               | Review Historical Crash Data                                                    | 1.0          | 2.0          | 4.0           | 7.0               | \$1,455.00         |                                   | \$1,455.00         |
| <b>d</b>                               | Traffic Signal Warrant Analysis                                                 | 1.0          | 4.0          | 10.0          | 15.0              | \$3,015.00         |                                   | \$3,015.00         |
| <b>e</b>                               | Memorandum and Study Documentation                                              | 1.0          | 4.0          | 10.0          | 15.0              | \$3,015.00         |                                   | \$3,015.00         |
| <b>f</b>                               | Quality Control and Assurance Reviews                                           | 2.0          | 4.0          |               | 6.0               | \$1,430.00         |                                   | \$1,430.00         |
|                                        | <b>Subtotal</b>                                                                 | <b>5.0</b>   | <b>16.0</b>  | <b>30.0</b>   | <b>51.0</b>       | <b>\$10,475.00</b> | <b>\$3,210.00</b>                 | <b>\$13,685.00</b> |
| <b>3. TRAFFIC SIGNAL DESIGN</b>        |                                                                                 |              |              |               |                   |                    |                                   |                    |
| <b>a</b>                               | Assemble Design Standards                                                       | 1.0          | 2.0          |               | 3.0               | \$595.00           |                                   | \$595.00           |
| <b>b</b>                               | Obtain Record Drawings and Design Files                                         | 1.0          | 2.0          |               | 3.0               | \$595.00           |                                   | \$595.00           |
| <b>c</b>                               | Site Reconnaissance and Inspection                                              | 4.0          | 6.0          |               | 10.0              | \$2,010.00         |                                   | \$2,010.00         |
| <b>d</b>                               | Existing Conditions and Removals Plan Sheet                                     | 1.0          | 4.0          | 12.0          | 17.0              | \$3,385.00         |                                   | \$3,385.00         |
| <b>e</b>                               | Proposed Signal Layout Plan Sheet                                               | 4.0          | 10.0         | 24.0          | 38.0              | \$7,750.00         |                                   | \$7,750.00         |
| <b>f</b>                               | Advance Roadside Flashing Beacon + Interconnect Details Plan Sheet              | 1.0          | 2.0          | 8.0           | 11.0              | \$2,195.00         |                                   | \$2,195.00         |
| <b>g</b>                               | Signal Elevation Views Plan Sheet                                               | 1.0          | 2.0          | 8.0           | 11.0              | \$2,195.00         |                                   | \$2,195.00         |
| <b>h</b>                               | Conduit and Electrical Details Plan Sheet                                       | 2.0          | 4.0          | 12.0          | 18.0              | \$3,650.00         |                                   | \$3,650.00         |
| <b>i</b>                               | Signing and Pavement Markings Plan Sheet                                        | 2.0          | 4.0          | 12.0          | 18.0              | \$3,650.00         |                                   | \$3,650.00         |
| <b>j</b>                               | Standard Details                                                                | 1.0          | 2.0          |               | 3.0               | \$595.00           |                                   | \$595.00           |
| <b>k</b>                               | General Notes                                                                   | 2.0          | 3.0          |               | 5.0               | \$1,005.00         |                                   | \$1,005.00         |
| <b>l</b>                               | Quantity Estimates                                                              | 2.0          | 4.0          |               | 6.0               | \$1,190.00         |                                   | \$1,190.00         |
| <b>m</b>                               | Opinion of Probable Construction Costs                                          | 2.0          | 3.0          |               | 5.0               | \$1,005.00         |                                   | \$1,005.00         |
| <b>n</b>                               | Title Sheet, Index Sheet, PS&E Package Preparation                              | 2.0          | 4.0          |               | 6.0               | \$1,190.00         |                                   | \$1,190.00         |
| <b>o</b>                               | Coordinate with Oncor                                                           | 6.0          | 4.0          |               | 10.0              | \$2,090.00         |                                   | \$2,090.00         |
| <b>p</b>                               | Quality Control and Assurance Reviews                                           | 4.0          | 4.0          |               | 8.0               | \$1,960.00         |                                   | \$1,960.00         |
|                                        | <b>Subtotal</b>                                                                 | <b>15.0</b>  | <b>51.0</b>  | <b>106.0</b>  | <b>172.0</b>      | <b>\$35,060.00</b> |                                   | <b>\$35,060.00</b> |
| <b>HOURS TOTALS</b>                    |                                                                                 |              |              |               |                   |                    |                                   |                    |
|                                        | <b>29.0</b>                                                                     | <b>85.0</b>  | <b>136.0</b> | <b>8.0</b>    | <b>258.0</b>      |                    |                                   |                    |
| <b>FEE TOTALS</b>                      |                                                                                 |              |              |               |                   |                    |                                   |                    |
|                                        |                                                                                 |              |              |               |                   | <b>\$52,970.00</b> | <b>\$3,210.00</b>                 | <b>\$56,180.00</b> |