



**SUPPLEMENTAL WORK AUTHORIZATION NO. 4  
TO  
WORK AUTHORIZATION NO. 1**

**WILLIAMSON COUNTY ROAD BOND PROJECT:  
SH 29 at DB Wood Road Intersection Improvements**

This Supplemental Work Authorization No. 4 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated October 16, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Unintech Consulting Engineering, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective January 26, 2015 (the "Work Authorization");

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

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

**AGREEMENT**

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


- I. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B" (must be attached).
- II. The Work Authorization shall terminate on March 31, 2018. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).
- III. The maximum amount payable for services under the Work Authorization is hereby increased from \$441,726.95 to \$469,109.95. The revised Fee Schedule is attached hereto as Attachment "D" (must be attached).

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

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

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

ENGINEER:

By:   
Signature

Kum Wing Chan, P.E.

Printed Name

Vice President, Civil Division

Title

2017.09.05 10:41:25-05'00'

Date

COUNTY:

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

Printed Name

Title

Date

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

## ATTACHMENT A

### SERVICES TO BE PROVIDED BY THE COUNTY

The **COUNTY** shall furnish to the **ENGINEER** the following items as required:

1. Existing traffic signal plans for the intersection of SH 29 and DB Wood Road\
2. Existing traffic signal timing plan for the intersection of SH 29 and DB Wood Road
3. Available utility information at the intersection
4. Available ROW information at the intersection
5. Existing as-builts for SH 29 and DB Wood Road
6. Right-of-Entry documents for all properties within the project limits
7. Geologic Assessment
8. General Notes
9. Perform TDLR review
10. Timely review and decisions necessary for the **ENGINEER** to maintain project schedule.

**Attachment B**

**WILLIAMSON COUNTY**

**SH 29 at D.B. Wood Road Improvements**

**SUPPLEMENTAL AGREEMENT NO. 4 TO WORK AUTHORIZATION NO. 1**  
**SERVICES TO BE PROVIDED BY THE ENGINEER**

The SH 29 at D.B. Wood Road Improvement project ("Project") involves improvements to approximately 5,000 linear feet of SH 29 and 2,000 linear feet of D.B. Wood Road north of SH 29 and 1,000 linear feet south of SH 29. This intersection is in a high growth corridor for both Williamson County and the City of Georgetown. SH 29 is a major east-west corridor in central Williamson County, while DB Wood provides access along the west side of Georgetown in a north-south corridor. This area is within the study area for the future SW Bypass that will continue the SE Inner Loop from IH-35 around the southwest side of Georgetown connecting to DB Wood north of SH 29. Since the corridor has not been finalized, improvements to this intersection are critical to the efficient and safe movement of vehicles in the area.

Work Authorization No. 1, approved on January 26, 2015, was developed to implement the Schematic and Environmental documents along with different Preliminary Design Alternatives for the Interim Improvements for the intersection.

The Schematic was to reflect the most feasible interim design for the intersection along with the Traffic Control Schematic for the selected interim design and serve as the 30% PS&E submittal to TxDOT. The Environmental Report was scoped out as an EA (Environmental Assessment) and changed to a CE (Categorical Exclusion) as required by TxDOT, and therefore having to descope additional items no longer required.

Additional effort was required to implement the Ultimate Intersection Configurations versus that of the Interim Intersection Improvements into the Schematic along with additional effort to include the River Chase Blvd Intersection Configuration. In addition multiple feasibility studies were conducted to evaluate additional Roadway Elements.

The tasks and products contained in this supplemental agreement are more fully described in the following TASK OUTLINE.

**TASK OUTLINE**

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**Environmental Descope Items (BY FREESE & NICHOLS)**

Descoping items that are no longer required due to the change from EA to CE.

1. Noise Analysis
2. Mobile Sources Air Toxics Analysis
3. Air Quality Analysis
4. Reduced Effort for Indirect and Cumulative Impact Analysis Coordination w/Sub
5. Wetland Delineation, Jurisdiction Determination & Permitting
6. Hazardous Materials
7. Reduced Effort to Prepare Draft EA
8. Reduced Effort for Revisions to Draft EA

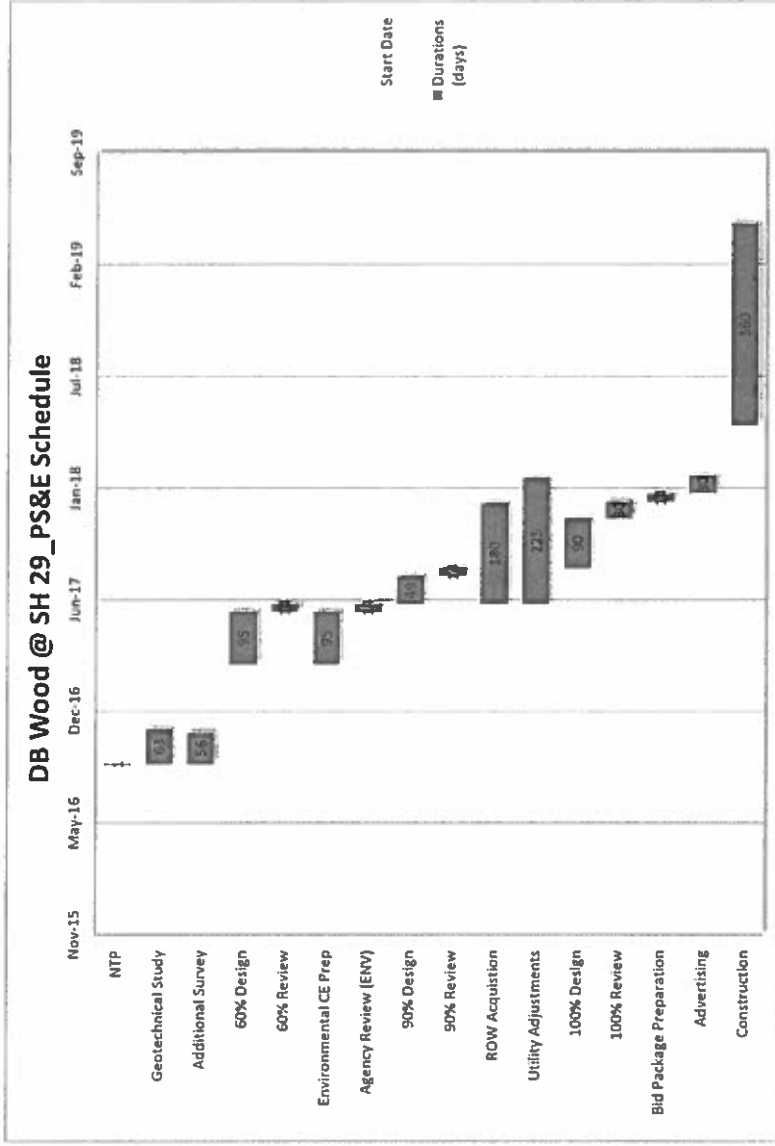
**ADDITIONAL DESIGN & COORDINATION (BY UNINTECH)**

1. Additional Geometric Design Concepts
  - a. SH 29 & DB Wood Road Alternative Layouts
    - i. Modify Raised Median along SH 29 to include Hooded Left Turns at selected locations
    - ii. Modify Raised Median along SH 29 west of DB Wood Road to Painted Median
    - iii. Modify DB Wood Rd Painted Median to match City of Georgetown Schematic
  - b. River Chase Blvd Alternative Intersection Layouts

- i. Revise River Chase Blvd Alignment to match First Baptist Church Driveway Alignment
  - ii. Revise First Baptist Church New Driveway Alignment to match River Chase Blvd Alignment
  - iii. Add Left Turn Lanes to Revised River Chase Blvd Alignment
  - iv. Add Left Turn Lanes to Revised First Baptist Church New Driveway Alignment
2. Additional Feasibility Study to Evaluate adding Exclusive Right Turn Lanes
  - a. North Bound Lanes from DB Wood Road to SH 29 within existing ROW
  - b. South Bound Lanes from DB Wood Road to SH 29 within existing ROW
3. Additional Feasibility Study to Evaluate adding Sidewalk
  - a. Adding Sidewalks within existing ROW of DB Wood Road
  - b. Adding Sidewalks within existing ROW of SH 29
4. Revised Southern Limits of DB Wood Road to include the addition of a New Driveway to the City of Georgetown project currently under construction.
5. Revised Traffic Control Schematics to incorporate Additional Geometric Design Concepts.
6. QC/QA Review
  - a. Additional Geometric Design Concepts
  - b. Additional Feasibility Studies
7. Additional Project Management (4 Additional Months)
  - a. Prepare and Submit Monthly Invoices
  - b. Prepare Monthly Progress Reports
  - c. Monthly Coordination Meetings with County/HNTB
  - d. Prepare Project Meeting Summaries
  - e. Design Team Coordination Meetings (2 Per Month)
  - f. Review of Subconsultants Monthly Invoices, Progress Reports, Etc.

# Attachment C - Work Schedule

| DB Wood @ SH 29 PS&E Schedule |            |                         |                  |
|-------------------------------|------------|-------------------------|------------------|
| Start Date                    | End Date   | Description             | Durations (days) |
| 9/1/2016                      | 9/2/2016   | NTP                     | 1                |
| 9/2/2016                      | 11/4/2016  | Geotechnical Study      | 63               |
| 9/2/2016                      | 10/28/2016 | Additional Survey       | 56               |
| 2/27/2017                     | 6/2/2017   | 60% Design              | 95               |
| 6/2/2017                      | 6/16/2017  | 60% Review              | 14               |
| 2/27/2017                     | 6/2/2017   | Environmental CE Prep   | 95               |
| 6/2/2017                      | 6/16/2017  | Agency Review (ENV)     | 14               |
| 6/16/2017                     | 8/4/2017   | 90% Design              | 49               |
| 8/4/2017                      | 8/18/2017  | 90% Review              | 14               |
| 6/16/2017                     | 12/13/2017 | ROW Acquisition         | 180              |
| 6/16/2017                     | 1/27/2018  | Utility Adjustments     | 225              |
| 8/18/2017                     | 11/16/2017 | 100% Design             | 90               |
| 11/16/2017                    | 12/16/2017 | 100% Review             | 30               |
| 12/16/2017                    | 12/30/2017 | Bid Package Preparation | 14               |
| 1/1/2018                      | 1/31/2018  | Advertising             | 30               |
| 5/2/2018                      | 4/27/2019  | Construction            | 360              |



**ATTACHMENT D - FEE SCHEDULE**

**SH 29 AT DB WOOD ROAD**

**Supplemental Work Authorization No. 4 to Work Authorization No. 1  
Williamson County**

| Task Description                             | Total Cost          |
|--|---------------------|
| <u>TOTAL LABOR COSTS (UNINTECH)</u>          |                     |
|  |                     |
| ADDITIONAL DESIGN & COORDINATION TASKS (1-7) | \$ 77,990.00        |
|  |                     |
| SUB-TOTAL LABOR EXPENSES                     | \$ 77,990.00        |
| <u>SUMMARY</u>                               |                     |
| TOTAL LABOR COSTS (UNINTECH)                 | \$ 77,990.00        |
| EXPENSES                                     |                     |
| UNINTECH FEE                                 | \$ 77,990.00        |
|  |                     |
| <u>SUBCONSULTANTS</u>                        |                     |
| FREESE & NICHOLS                             | \$ (50,607.00)      |
|  |                     |
|  |                     |
| <b>GRAND TOTAL</b>                           | <b>\$ 27,383.00</b> |

ATTACHMENT D

SUPPLEMENTAL PS&E FEES

SH 29 AT DB WOOD ROAD

| Fee Schedule/Budget for Unitech Consulting Engineers, Inc.                     |  |                  |                 |         |                   |                      |                 |  |  | Total Direct Labor Costs |                |
|--|--|------------------|-----------------|---------|-------------------|----------------------|-----------------|--|--|--------------------------|----------------|
| Task Description - Supplemental PS&E Tasks                                     |  |                  |                 |         |                   |                      |                 |  |  | Total Labor Hours        |                |
| Environmental Items developed (See Separate Freeze and Nichols Desclope Items) |  |                  |                 |         |                   |                      |                 |  |  |                          |                |
| Project Manager  | Senior Engineer  | Project Engineer | Design Engineer | E.I.T.  | Drainage Engineer | Senior CADD Operator | Admin/ Clerical |  |  |                          |                |
| \$195.00   | \$160.00   | \$135.00         | \$110.00        | \$95.00 | \$130.00          | \$95.00              | \$45.00         |  |  | \$ (40,897.00)           |                |
| <b>ADDITIONAL DESIGN &amp; COORDINATION (See UNITECH Fee Proposal Below)</b>   |  |                  |                 |         |                   |                      |                 |  |  |                          |                |
| 1  | Additional Geometric Design Concepts   |                  |                 |         |                   |                      |                 |  |  |                          |                |
|  | a. SH 29 & DB Wood Road Alternative Layouts  |                  |                 |         |                   |                      |                 |  |  |                          |                |
|  | Modify Raised Median along SH 29 to include Hooded Left Turns at selected locations  |                  |                 |         |                   |                      |                 |  |  |                          | 46 \$ 5,390.00 |
|  | Modify Raised Median along SH 29 west of DB Wood Road to Painted Median  |                  |                 |         |                   |                      |                 |  |  |                          | 46 \$ 5,390.00 |
|  | Modify DB Wood Rd Painted Median to match City of Georgetown Schematic   |                  |                 |         |                   |                      |                 |  |  |                          | 46 \$ 5,390.00 |
|  | b. River Chase Blvd Alternative Intersection Layouts   |                  |                 |         |                   |                      |                 |  |  |                          |                |
|  | Revise River Chase Blvd Alignment to match First Baptist Church Driveway Alignment   |                  |                 |         |                   |                      |                 |  |  |                          | 34 \$ 4,050.00 |
|  | Revise First Baptist Church New Driveway Alignment to match River Chase Blvd Alignment   |                  |                 |         |                   |                      |                 |  |  |                          | 34 \$ 4,050.00 |
|  | Add Left Turn Lanes to Revised River Chase Blvd Alignment  |                  |                 |         |                   |                      |                 |  |  |                          | 34 \$ 4,050.00 |
|  | Add Left Turn Lanes to Revised First Baptist Church New Driveway Alignment   |                  |                 |         |                   |                      |                 |  |  |                          | 34 \$ 4,050.00 |
| 2  | Additional Feasibility Study to Evaluate adding Exclusive Right Turn Lanes   |                  |                 |         |                   |                      |                 |  |  |                          |                |
|  | a. North Bound Lanes from DB Wood Road to SH 29 within existing ROW  |                  |                 |         |                   |                      |                 |  |  |                          | 62 \$ 7,070.00 |
|  | b. South Bound Lanes from DB Wood Road to SH 29 within existing ROW  |                  |                 |         |                   |                      |                 |  |  |                          | 62 \$ 7,070.00 |
| 3  | Additional Feasibility Study to Evaluate adding Sidewalk   |                  |                 |         |                   |                      |                 |  |  |                          |                |
|  | a. Adding Sidewalks within existing ROW of DB Wood Road  |                  |                 |         |                   |                      |                 |  |  |                          | 30 \$ 3,590.00 |
|  | b. Adding Sidewalks within existing ROW of SH 29   |                  |                 |         |                   |                      |                 |  |  |                          | 0 \$ 0.00      |
| 4  | Revised Southern Limits of DB Wood Road to include the addition of a New Driveway to the City of Georgetown project currently under construction |                  |                 |         |                   |                      |                 |  |  |                          | 14 \$ 1,850.00 |
| 5  | Revised Traffic Control Schematics to incorporate Additional Geometric Design Concepts   |                  |                 |         |                   |                      |                 |  |  |                          | 62 \$ 6,910.00 |
| 6  | QA/QC Reviews for Additional Design Items  |                  |                 |         |                   |                      |                 |  |  |                          | 0 \$ 0.00      |
|  | a. Additional Geometric Design Concepts  |                  |                 |         |                   |                      |                 |  |  |                          | 16 \$ 2,600.00 |
|  | b. Additional Feasibility Studies  |                  |                 |         |                   |                      |                 |  |  |                          | 16 \$ 2,600.00 |
|  | ADDITIONAL DESIGN & COORDINATION HOURS & FEE Tasks 1-6   |                  |                 |         |                   |                      |                 |  |  |                          | 0 \$ 0.00      |
|  | 34   | 66               | 100             | 150     | 88                | 122                  | 0               |  |  | 570 \$ 68,090.00         |                |

ATTACHMENT D

SH 29 AT DB WOOD ROAD

Williamson County

Fee Schedule/Budget for Unintech Consulting Engineers, Inc.

| Task Description - Supplemental PS&E Tasks                          | Project Manager | Senior Engineer | Project Engineer | Design Engineer | E.I.T.  | Drainage Engineer | Senior CADD Operator | Admin / Clerical | Total Labor Hours | Total Direct Labor Costs |
|---|-----------------|-----------------|------------------|-----------------|---------|-------------------|----------------------|------------------|-------------------|--------------------------|
|   | \$195.00        | \$160.00        | \$195.00         | \$110.00        | \$95.00 | \$130.00          | \$95.00              | \$45.00          |                   |                          |
| 7 Additional Project Management (4 additional months)               |                 |                 |                  |                 |         |                   |                      |                  |                   |                          |
| a Prepare and submit monthly invoices                               | 8               |                 |                  |                 |         |                   |                      |                  | 12                | \$ 1,740.00              |
| b Prepare monthly progress reports                                  | 4               |                 |                  |                 |         |                   |                      |                  | 4                 | \$ 760.00                |
| c Monthly coordination meetings with County/HNTB                    | 8               |                 |                  |                 |         |                   |                      |                  | 8                 | \$ 1,560.00              |
| d Prepare project meeting summaries                                 | 8               |                 |                  |                 |         |                   |                      |                  | 8                 | \$ 1,560.00              |
| e Design Team coordination meetings (2 per month)                   | 8               | 8               |                  |                 |         |                   |                      |                  | 16                | \$ 2,840.00              |
| f Review of subcontractors monthly invoices, progress reports, etc. | 4               | 4               |                  |                 |         |                   |                      |                  | 8                 | \$ 1,420.00              |
| TOTAL - 7   |                 |                 |                  |                 |         |                   |                      |                  |                   | \$ 9,900.00              |
| ADDITIONAL DESIGN & COORDINATION HOURS & FEE Task 7                 | 40              | 12              | 100              | 0               | 0       | 0                 | 0                    | 0                | 56                | \$ 9,900.00              |
| ADDITIONAL DESIGN & COORDINATION FEE Tasks 1-6                      | 34              | 66              | 100              | 150             | 98      | 0                 | 122                  | 0                | 570               | \$ 68,080.00             |
| SUBTOTAL ADDITIONAL DESIGN & COORDINATION FEE                       | 74              | 78              | 100              | 150             | 98      | 0                 | 122                  | 0                | 626               | \$ 77,980.00             |
| ENVIRONMENTAL DESCOPE FEE   |                 |                 |                  |                 |         |                   |                      |                  |                   | \$ (56,697.00)           |
| TOTAL SUPPLEMENTAL FEE  |                 |                 |                  |                 |         |                   |                      |                  |                   | \$ 27,383.00             |

**FREISE & NICHOLS**  
**DB Woods and SH 29 Intersection**  
**8/16/2017**  
**Decscope Cost Breakdown WA 1**

| Phase | Task | Labor Task Description   | Hourly Bill Rate | Basic Services |            |             |            |           |          |          |          |          |          | Total Hours | Total Labor Effort |                    |
|-------|------|--|------------------|----------------|------------|-------------|------------|-----------|----------|----------|----------|----------|----------|-------------|--------------------|--------------------|
|       |      |  |                  | ENV.SCI.VI     | ENV.SCI.V  | ENV.SCI.III | ENV.SCI.II | ENV.SCI.I | ADMIN    | 0        | 0        | 0        | 0        |             |                    |                    |
|       | 1    | Noise Analysis   |                  | \$190.00       | \$145.16   | \$113.63    | \$97.03    | \$95.45   | \$0.00   | \$0.00   | \$0.00   | \$0.00   | \$0.00   | \$0.00      | -89                | \$ (10,349)        |
|       | 2    | Mobile Sources Air Toxics Analysis   |                  | -4             | -2         | -75         | -8         |           |          |          |          |          |          |             | -24                | \$ (4,381)         |
|       | 3    | Air Quality Analysis   |                  | -20            | -4         |             |            |           |          |          |          |          |          |             | -20                | \$ (3,442)         |
|       | 4    | Reduced Effort for Indirect and Cumulative Impact Analysis Coordination w/ Sub |                  | -12            | -8         |             |            |           |          |          |          |          |          |             |                    |                    |
|       | 5    | Wetland Delineation, Jurisdictional Determination & Permitting                 |                  | -8             | -8         |             |            |           |          |          |          |          |          |             | -16                | \$ (2,662)         |
|       | 6    | Hazardous Materials  |                  | -14            | -40        | -40         | -20        | -4        |          |          |          |          |          |             | -118               | \$ (15,335)        |
|       | 7    | Reduced Effort to Prepare Draft EA   |                  | -2             | -20        | -20         | -10        |           |          |          |          |          |          |             | -22                | \$ (3,284)         |
|       | 8    | Reduced Effort for Revisions to Draft EA                                       |                  | -10            | -10        | -10         | -8         |           |          |          |          |          |          |             | -50                | \$ (6,595)         |
|       |      | Reduced Effort for Revisions to Draft EA                                       |                  | -10            | -5         | -10         | -8         |           |          |          |          |          |          |             | -33                | \$ (4,539)         |
|       |      | <b>Total</b>   |                  | <b>-60</b>     | <b>-97</b> | <b>-145</b> | <b>-46</b> | <b>-4</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>    | <b>-372</b>        | <b>\$ (50,607)</b> |