

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

**WILLIAMSON COUNTY ROAD BOND PROJECT:
Chandler Road at FM 1660**

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

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

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

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

AGREEMENT

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

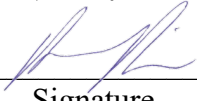
- I. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B" (must be attached).
- II. The Work Authorization shall terminate on July 1, 2026. The Services 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 \$1,460,097.30 to \$1,871,974.74. 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, to be effective as of the date of the last party's execution below.

ENGINEER:

By: 
Signature

Andrew Reid
Printed Name

Principal
Title

4/10/2025
Date

COUNTY:

By: _____
Signature

Printed Name

Title

Date

LIST OF ATTACHMENTS

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

APPROVED

By Christen Eschberger at 10:48 am, Apr 23, 2025

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER FOR
CHANDLER ROAD OVERPASS AT FM 1660
SUPPLEMENTAL AUTHORIZATION 1

Engineer will provide the following additional services:

1. PROJECT MANAGEMENT

- a. COMMUNICATION: N/A
- b. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS (6 months assumed):
 - 1. Submit monthly progress status reports to the GEC. Progress reports will include: deliverable table, tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
 - 2. Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.
- c. QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PLAN:
 - 1. Re-do 60% QA/QC and provide evidence of their internal review and mark-up of that deliverable as preparation for submittal and in accordance with submitted project specific QA/QC plan.
 - 2. Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.

d. PROJECT COORDINATION & ADMINISTRATION:

1. Prepare and maintain routine project record keeping including records of meetings and minutes.
2. Correspondence and coordination will be handled through & with the concurrence of the GEC.
3. Manage Project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub-consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to Project-related inquiries.

e. PROGRESS/COORDINATION MEETINGS (12 external meetings assumed):

1. Attend coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
2. Prepare agenda and sign-in sheets for external coordination/progress meetings.
3. Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting.
4. Conduct internal coordination meetings as required to advance the development of the project.

f. PROJECT DESIGN SCHEDULE:

1. Progress Schedule – Submit an updated Progress Schedule for extended revised 60% timeframe, detailing actual work completion percentages and incorporating the approved supplement.

g. PROJECT DOCUMENTS/FILES: N/A

h. DELIVERABLES:

1. Monthly Invoices and Progress Reports including Deliverable Table
2. Meeting Minutes, Sign-In Sheets, and Agendas
3. Project Schedule and Updates
4. QA/QC Documentation with Deliverable

2. PUBLIC INVOLVEMENT: N/A

3. UTILITY COORDINATION SUPPORT: N/A
4. RIGHT OF WAY (ROW) AND MAPPING: N/A
5. SURVEYING: N/A
6. DRAINAGE STUDY: N/A
7. ENVIRONMENTAL SERVICES:
 - a. COUNTY DUE DILIGENCE: N/A
 - b. TXDOT ENVIRONMENTAL CLEARANCE:
 1. Coordinate with GEC and TxDOT District staff to access and update the TxDOT Environmental Compliance Oversight System (ECOS).
 - i. DELIVERABLES: N/A

8. GEOTECHNICAL SERVICES

a. FIELD SURVEYING:

This amendment hereby includes within scope the addition of geotechnical bore hole locative staking. Thereby increasing the (5) five bore hole locations previously staked by SAM Surveying and adding (4) four additional bore hole locations for a total of (9) nine total staking locations along the Chandler Road at FM 1660 project location. Surveyor's Scope of Services is limited to those items outlined below.

1. Geotechnical Bore Hole Staking Services (up to 4 additional bore hole staking locations assumed):
 - Surveyor shall stake up to 4 locations provided by the project design engineer.
 - Surveyor assumes one mobilization to complete the staking request.
 - Bore holes to be staked by wooden lathe hammered in the ground based on coordinates provided by the engineer. Each wooden lathe will have the number identifying which bore it is written upon it and flagging to easily identify on site.
2. DELIVERABLES:
 - Photos of staked bore location and its flagged wooden lathe.
 - ASCII point file of all points staked during the course of the survey
 - Bore hole points in Microstation

b. BORINGS:

1. The maximum spacing and minimum depth of borings for retaining walls and bridges, slopes and embankments per the latest TxDOT Geotechnical Manual. Groundwater elevations shall be taken 15 minutes after initial encounter with groundwater. Additional groundwater elevations shall be taken where clay soils are encountered to obtain a static water level. Field testing shall consist of either the Texas Cone Penetrometer (TCP) or the Standard Penetration Test (SPT) at a minimum of 5 foot intervals. In between the TCP/SPT interval obtain Shelby Tube samples and bag samples appropriate for laboratory testing.
2. The Engineer shall be responsible for Soil Core Hole Drilling required for bridges. The Engineer shall follow the procedures in the TxDOT Geotechnical Manual and will contact the appropriate utility location services to have underground utilities located prior to drilling in an area.

3. The soil borings will be properly backfilled with bentonite chips and a single lift of cold patch asphalt where applicable. The soil samples will be obtained using Shelby tubes and/or split-spoon samplers. Field-testing of soil samples will include pocket penetrometer in the cohesive soils and Standard Penetration Test (SPT) in the cohesionless soils. Texas Cone Penetrations will be performed in the culvert borings at five-foot intervals.

c. **GEOTECHNICAL REPORTS:**

1. Perform appropriate laboratory tests on soil samples recovered from the borings. Laboratory testing will include but not limited to: moisture content, liquid limit, plastic limit, unconfined compression, sulfate testing, and particle size analysis tests, visual classification, dry density, and lime series analysis. A subgrade modulus for pavement design shall be assumed based on project specified embankment fill type.
2. Provide a Geotechnical Investigation for the project evaluated by a professional geotechnical engineer Licensed in the State of Texas. The following items will be included in the geotechnical report: soil boring locations, boring logs (TxDOT Wincore output graphs/format), and plan of borings, subsurface exploration procedures, encountered subsurface conditions, field and laboratory test results, description of surface and subsurface conditions, groundwater conditions/readings, analysis and recommendations for settlement, retaining walls, general earthwork recommendations, wall backfill limits, pavement thickness design alternatives with and without subgrade stabilization, PVR calculations. Provide L-Pile parameters for lateral analysis of drilled shaft bridge foundations.
3. Provide geotechnical analysis needed for foundation design, and slope stability, as required. For retaining walls, Engineer will provide calculations including global stability, sliding, bearing capacity, and overturning and recommendations for minimum footing depth. Where retaining walls will be inundated due to water, a drawdown analysis is required. In addition, retaining wall backfill type shall be specified. A sketch is required showing the backfill type and limits. Show the limits of the foundation material, aggregate backfill material, and retained fill. Provide the information to include in an RW(MSE)DD plan sheet. For bridge foundation design, the capacity curves shall be adjusted for the upper moisture change zone (5 to 10 feet) and scour.

d. **DELIVERABLES:**

4. Draft & Final Structure Design Report

9. **PLAN PREPARATION**

- a. Plans shall be prepared per Williamson County and TxDOT criteria including applicable submittal requirements per PS&E Development Plan Submittal Checklist including: cost estimate, checklists, hardcopies, CAD files, comment responses, design waivers/exceptions, general notes, quantities, updated design schedule, construction time determination.

b. DESIGN CRITERIA & CONCEPTUAL LAYOUT (Pre-30% Submittal):

Unanticipated conditions required additional effort to develop the pre-30%:

1. Transmission tower
 - Horizontal offset had to be accommodated
 - Drove multiple alternatives to avoid tower
 - Additional coordination meetings with Oncor
 - Alternatives due to adjacent entrances, weaving, decel, tower foundations
 - Drainage changes due to tower location
2. Cross slope of WBFR
 - Schematic drained to outside, had to flip to inside and change drainage concept
3. Transmission lines
 - Revised vertical geometry to dive under lines with an interim profile on the west side
4. Existing culvert at western terminus
 - Controlling horizontal tie location
 - Had to develop mill/overlay option with construction staff to accommodate
5. Existing culvert at intersection
 - Anticipated it would be replaced as shown in schematic
6. No additional ROW acquisition on the south side
 - Can't use southern pond location since no additional ROW
7. FM 1660 turn lanes under bridge
 - Had to shift bent location from schematic and change skews
8. Alternatives
 - Access to Sherrif Training Center / adjacent property owner
 - Ultimate FM 1660 on schematic was being reconstructed to new profile grade; we were directed to keep existing profile
 - Required additional geometric revisions to ultimate WBFR
 - Signal pole in southwest quadrant disallowed encroachment
 - Led to alternative development to avoid proposed expansion there
9. Schematic wasn't finished when we started
 - Changed alignment of FM 1660 after we started
 - Vertical clearance was a couple feet higher; had to make geometric adjustments
10. Additions of interim u-turns
 - Also received comments at 30% on these, which caused WBML redesign of alignment/profile, modeling, walls, typical sections

c. ROADWAY: (Revisions due to revised typical, bridge and retaining wall)

1. Re-design horizontal and vertical alignment of the mainlane roadway and revise proposed typical sections and re-model cross sections. Cross sections created at appropriate increments and at cross drainage structures.
2. Revise project layout sheets that identify the project area and limits of work.

3. Design and detail additional 3 bridge segments including layout, beam layout, abutment and span details, and standards per TxDOT's Bridge Project Development Manual, Load and Resistance Factor Design (LRFD) Bridge Design Manual, and Bridge Detailing Manual Bridge Design Manual. TxDOT standardized elements will be used to the extent feasible; no aesthetic treatments will be required. Model bridge structures using Bentley OpenBridge Designer (OBD) per TxDOT requirements.. The overpass bridge will be a 2-lane bridge with shoulders that will accommodate both the interim two-way travel condition and the ultimate eastbound only travel condition. The bridge will span both existing FM 1660 and the proposed ultimate FM 1660 shown in the schematic.
4. Re-design and detail retaining walls including wall key map, retaining wall layouts (scale 1:40), typical sections, and miscellaneous details (underdrains, drainage inlets behind walls, railing support, sideslope riprap). Wall design shall conform to TxDOT standard practice and the TxDOT Geotechnical Manual. Retaining walls will have no aesthetic treatment. Model retaining walls structures using Bentley OpenRoads Designer (ORD) per TxDOT requirements.

d. DRAINAGE:

1. Re-develop hydraulic calculations for the design of drainage structures and detention structures on the project and inclusion in the plans based on new impervious area.
 2. Re-develop drainage area maps delineating drainage area boundaries.
 3. Re-design drainage outfalls, cross drainage structures, culverts, channels, roadside ditches, minimum side slopes, and erosion and sedimentation control.
 4. Re-design and detail on-site stormwater detention measures or provide documentation along with supporting calculations justifying that the project is exempt from the on-site detention requirements stated in the Williamson County Design Criteria Manual.
- 5-10. The changes begin at station 407+00 with a reduction of left side ditch cross sectional area – flows unchanged, preliminary calculations show ditch still having enough capacity.
- Station 408+00 has a reduction of left side ditch cross sectional area and reduction of both flow and cross-sectional area to the right-side ditch – preliminary calculations show ditches still having enough capacity.
 - Station 409+00 (near transmission tower) has a reduction of left side ditch cross sectional area, reduction of right-side ditch cross sectional area, increase of flow to left side ditch and decrease of flow to right side ditch – preliminary calculations show ditches still having enough capacity.
 - Station 410+00 to 413+00 has a reduction to the right-side ditch cross sectional area as well as its flow – preliminary calculations show ditch still having enough capacity.

- Station 423+00 to 425+00 has a reduction to the right-side ditch cross sectional area as well as its flow – preliminary calculations show ditch still having enough capacity.
- Station 426+00 to 430+00 has a reduction to both the right side and left side ditch cross sectional areas as well as the right-side flows. – preliminary calculations show ditches still having enough capacity.

e. **SIGNING, MARKINGS, & SIGNALIZATION:**

1. Re-develop signing and marking layout per current version of Texas Manual of Uniform Traffic Control Devices (TMUTCD). Detail all non-standard signs or marking details as required for the project.
2. Re-develop traffic signal location and operations analysis for geometric alternatives and turn lanes to justify the geometric recommendation.
3. Prepare traffic signal plan sheets for new signals at ramp intersections with cross street including: existing traffic control that will remain, roadway improvements, installation, additional traffic controls, illumination, elevation sheets, phase sequence diagrams, signal sequence table, flashing operation, cycle length, interval timing, power source location, quantities, signal timing for final and construction phases.
4. Utilize TxDOT standard detail sheets for construction details including poles, detectors, pull box, conduit layout, and controller foundation. Utilize TxDOT specifications and provisions required for traffic signal.
5. Coordinate with GEC in identifying power sources.

f. **TRAFFIC CONTROL:**

1. Revise traffic control plan sequence of construction narrative, phase layout sheets, and detour layout as needed to direct traffic around construction activities per Texas Manual of Uniform Traffic Control Devices (TMUTCD).

g. **WATER QUALITY:**

1. Revise water quality temporary and permanent Best Management Practices (BMPs) to comply with Texas Commission on Environmental Quality (TCEQ) regulations.
2. Review Stormwater Pollution Prevention Plan (SWPPP) and EPIC Sheet.

h. **DELIVERABLES:**

1. Revised 60% PS&E Submittal: per 60% Plan Submittal Checklist
2. Draft & Final Drainage Report and Drainage Models

Activity ID	Activity Name	Original Duration	Start	Finish	2024												2025												2026											
					Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
Chandler Road at FM 1660 Schedule		553	01-Apr-24 A	01-Jul-26																																				
Milestones		553	01-Apr-24 A	01-Jul-26																																				
A1000	Start Project	0	01-Apr-24 A																																					
A1070	Pre 30% - Submittal Conceptual Design	0		24-May-24 A																																				
A1360	Geotech Investigation Report	0		08-Jul-24 A																																				
A1100	30% PS&E Design Submittal - Plan, Profile, Typical, TCP	0		15-Aug-24 A																																				
A1120	Preliminary Drainage Report Submittal	0		15-Aug-24 A																																				
A1390	Preliminary Geotech Report	0		15-Aug-24 A																																				
A1370	Final Environmental State CE Process	0		09-May-25																																				
A1140	60% Geometric Design Submittal	0		07-Jul-25																																				
A1570	Final Geotech Report	0		07-Jul-25																																				
A1510	Species Analysis Spreadsheet & Form Submittal	0		25-Aug-25																																				
A1190	90% Geometric Design Submittal	0		29-Sep-25																																				
A1210	Final Drainage Report Submittal	0		29-Sep-25																																				
A1560	THC Letter and Concurrence Submittal	0		30-Sep-25																																				
A1230	100% Geometric Design Submittal	0		04-Dec-25																																				
A1260	Final Geometric Design Submittal	0		11-Feb-26																																				
A1320	Contract Termination Date	0		01-Jul-26																																				
Engineering		468	02-Apr-24 A	04-Mar-26																																				
A1010	Prepare Project Management Plan and attend Kickoff	7	02-Apr-24 A	08-Apr-24 A																																				
A1050	Existing Traffic and Operational Analysis	10	17-May-24 A	26-May-24 A																																				
A1020	Data Collection, Utility Identification, Develop Base Maps, Survey	60	02-Apr-24 A	01-Jun-24 A																																				
A1030	Analyze Existing Conditions inc. Traffic, Develop ROW Base Map	60	02-Apr-24 A	01-Jun-24 A																																				
A1160	Geotech Investigation	50	17-May-24 A	07-Jul-24 A																																				
A1350	Develop Preliminary Geotech Report	30	08-Jul-24 A	06-Aug-24 A																																				
A1380	Develop Environmental State CE Process	110	16-Aug-24 A	08-May-25																																				
A1520	Additional Geotech Borings	15	02-May-25	22-May-25																																				
A1540	Develop Final Geotech Report	30	23-May-25	07-Jul-25																																				
Environmental Reports		45	29-Jul-25	30-Sep-25																																				
TxDOT AUS		45	29-Jul-25	30-Sep-25																																				
A1650	Full project description for ECOS work plan (WPD screens)	5	29-Jul-25	04-Aug-25																																				
A1480	Develop Species Analysis Spreadsheet & Form	5	05-Aug-25	11-Aug-25																																				
A1490	Review Species Analysis Spreadsheet & Form (by WilCo)	5	12-Aug-25	18-Aug-25																																				
A1500	Comment Resolution - Species Analysis Spreadsheet & Form	5	19-Aug-25	25-Aug-25																																				
A1530	Develop THC Letter and Concurrence	30	05-Aug-25	16-Sep-25																																				
A1580	Review THC Letter and Concurrence	5	17-Sep-25	23-Sep-25																																				
A1550	Comment Resolution - THC Letter and Concurrence	5	24-Sep-25	30-Sep-25																																				
Environmental Reports - WilCo Due Diligence (SWCA)		40	29-Jul-25	23-Sep-25																																				
A1680	Hazardous Materials Environmental Site Assessment (by WilCo)	30	29-Jul-25	09-Sep-25																																				
A1690	Section 404 Clean Water Act Compliance Report (by WilCo)	30	05-Aug-25	16-Sep-25																																				
A1700	Endangered Species Act Compliance Report (by WilCo)	30	05-Aug-25	16-Sep-25																																				
A1730	Comment Resolution - Hazardous Materials Environmental Site Assessment	5	10-Sep-25	16-Sep-25																																				
A1740	Comment Resolution - Section 404 Clean Water Act Compliance Report	5	17-Sep-25	23-Sep-25																																				
A1750	Comment Resolution - Endangered Species Act Compliance Report	5	17-Sep-25	23-Sep-25																																				
Preliminary Design		36	12-Apr-24 A	15-Jun-24 A																																				
A1040	Preliminary Design/Criteria	5	12-Apr-24 A	16-Apr-24 A																																				
A1060	Conceptual Design - Typical, Layout	30	22-Apr-24 A	16-May-24 A																																				
A1080	Review Conceptual Design (by WilCo)	14	25-May-24 A	08-Jun-24 A																																				
A1400	Comment Resolution - Pre 30% Conceptual Design	7	09-Jun-24 A	15-Jun-24 A																																				
Design 30%		81	16-Jun-24 A	06-Sep-24 A																																				
A1090	Develop 30% PS&E Design - Plan, Profile, Typical, TCP	60	16-Jun-24 A	15-Aug-24 A																																				
A1110	Review 30% PS&E Design - Plan, Profile, Typical, TCP (by WilCo)	14	16-Aug-24 A	29-Aug-24 A																																				
A1410	Comment Resolution - 30% PS&E Design	7	30-Aug-24 A	06-Sep-24 A																																				
Design 60%		319	07-Sep-24 A	28-Jul-25																																				
A1130	Develop 60% Geometric Design	90	07-Sep-24 A	15-Nov-24 A																																				
A1460	60% Pause for VE Study	30	15-Nov-24 A	01-May-25																																				

Remaining Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

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Milestone



Date	Revision	Checked

Activity ID		Activity Name	Original Duration	Start	Finish	2024												2025												2026											
						Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
		A1470	Continued Development of 60% Geometric Design	65	02-May-25	07-Jul-25																																			
		A1150	Review 60% Geometric Design (by WilCo)	14	08-Jul-25	21-Jul-25																																			
		A1420	Comment Resolution - 60% Geometric Design	7	22-Jul-25	28-Jul-25																																			
		Design 90%		82	29-Jul-25	19-Oct-25																																			
		A1180	Develop 90% Geometric Design	60	29-Jul-25	27-Sep-25																																			
		A1200	Review 90% Geometric Design (by WilCo)	14	29-Sep-25	12-Oct-25																																			
		A1430	Comment Resolution - 90% Geometric Design	7	13-Oct-25	19-Oct-25																																			
		Design Final		132	20-Oct-25	04-Mar-26																																			
		A1220	Develop 100% Geometric Design	45	20-Oct-25	04-Dec-25																																			
		A1240	Review 100% Geometric Design (by WilCo)	14	05-Dec-25	18-Dec-25																																			
		A1440	Comment Resolution - 100% Geometric Design	7	19-Dec-25	27-Dec-25																																			
		A1250	Develop Final Geometric Design	30	13-Jan-26	11-Feb-26																																			
	A1270	Review Final Geometric Design (by WilCo)	14	12-Feb-26	25-Feb-26																																				
	A1450	Comment Resolution - Final Geometric Design	7	26-Feb-26	04-Mar-26																																				
	Pre-Construction			351	08-Jul-25	29-Jun-26																																			
	A1170	Utility Clearance (by WilCo)	100	08-Jul-25	16-Oct-25																																				
	A1280	Environmental Review (by WilCo & TXDOT)	100	01-Oct-25	12-Jan-26																																				
	A1290	Letting Month/Date	30	05-Mar-26	03-Apr-26																																				
	A1300	Letting Date	1	04-Apr-26	04-Apr-26																																				
	A1310	Bid Phase	45	05-Apr-26	19-May-26																																				
A1330	Close out Work Authorization	30	20-May-26	19-Jun-26																																					
A1340	Submit Final Billing	10	20-Jun-26	29-Jun-26																																					

Remaining Level of Effort

Critical Remaining Work

Actual Work

Remaining Work

Milestone

Milestone

Date	Revision	Checked

**Attachment D - Fee Schedule
Summary
Williamson County
Chandler Road at FM 1660**

	Burns & McDonnell Engineering Company, Inc.	K Friese	SAM, LLC	LJA Engineering, Inc.	Raba Kistner	SWCA	Hardesty & Hanover, LLC	TOTAL
1.0 PROJECT MANAGEMENT	\$66,894.80	\$11,560.00					\$3,230.00	\$81,684.80
2.0 PUBLIC INVOLVEMENT	\$0.00						\$0.00	\$0.00
3.0 UTILITY COORDINATION SUPPORT							\$0.00	\$0.00
4.0 RIGHT OF WAY (ROW) & MAPPING								\$0.00
5.0 SURVEYING								\$0.00
6.0 DRAINAGE STUDY								\$0.00
7.0 ENVIRONMENTAL SERVICES	\$2,537.84							\$2,537.84
8.0 GEOTECHNICAL SERVICES			\$2,870.00		\$ 19,551.88		\$1,015.00	\$23,436.88
9.0 PLAN PREPARATION	\$158,158.80	\$49,440.00					\$67,700.00	\$275,298.80
10.0 PERMITS								\$0.00
11.0 BIDDING PHASE SERVICES	\$0.00						\$0.00	\$0.00
EXPENSES	\$0.00	\$52.50	\$153.60		\$28,713.02		\$0.00	\$28,919.12
Total	\$227,591.44	\$61,052.50	\$3,023.60	\$0.00	\$48,264.90	\$0.00	\$71,945.00	\$411,877.44

Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Design Services for
Williamson County - Chandler Road at FM 1660
Burns & McDonnell Engineering Company, Inc.
3/27/2025

Activity No.	Task Description	Project Manager	Support Manager	Engineer (Senior)	Engineer (Project)	Engineer (Design)	Engineer (Traffic) - Senior	Engineer (Traffic)	Engineer-In-Training	Engineer Technician - Senior	Sr. Structural Engineer	Structural Engineer	Sr. Drainage Engineer	Environmental PM - Senior	Administrative/ Clerical	Total Hours	Total Labor Cost
		\$ 338.15	\$ 320.00	\$ 294.61	\$ 256.84	\$ 217.18	\$ 277.00	\$ 217.67	\$ 154.86	\$ 196.40	\$ 293.28	\$ 240.63	\$ 294.61	\$ 317.23	\$ 128.42		
1.0	PROJECT MANAGEMENT (Additional 6 months anticipated)	124	74	0	0	0	0	0	0	0	0	0	0	0	10	208	\$ 66,894.80
	a. COMMUNICATION														0	0	\$ -
	b. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS (6 additional)	20	10													30	\$ 9,963.00
	c. QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PLAN	15	15													30	\$ 9,872.25
	d. PROJECT COORDINATION & ADMINISTRATION	50	37												10	97	\$ 30,031.70
	e. PROGRESS/COORDINATION MEETINGS (12)	24	12													36	\$ 11,955.60
	f. PROJECT SCHEDULE	15														15	\$ 5,072.25
	g. PROJECT DOCUMENTS/FILES	0														0	\$ -
	h. DELIVERABLES															0	\$ -
2.0	PUBLIC INVOLVEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
	a. PUBLIC INVOLVEMENT SUPPORT															0	\$ -
	b. PROPERTY OWNER MEETING SUPPORT															0	\$ -
	c. STAKEHOLDER MEETINGS															0	\$ -
	d. DELIVERABLES															0	\$ -
3.0	UTILITY COORDINATION SUPPORT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
	a. INCORPORATE UTILITY INFORMATION INTO ENGINEERING DRAWINGS															0	\$ -
	b. UTILITY MEETINGS (10)															0	\$ -
	c. DELIVERABLES															0	\$ -
4.0	RIGHT OF WAY (ROW) AND MAPPING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
	a. PARCEL ACQUISITION DOCUMENTS (4 Exhibits)															0	\$ -
	b. DELIVERABLES															0	\$ -
5.0	SURVEYING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
	a. FIELD SURVEYING															0	\$ -
	b. DELIVERABLES															0	\$ -
6.0	DRAINAGE STUDY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
	a. HYDROLOGIC/HYDRAULIC MODELING (1 cross drainage)															0	\$ -
	b. IMPACT AND MITIGATION ANALYSIS															0	\$ -
	c. DELIVERABLES															0	\$ -
7.0	ENVIRONMENTAL SERVICES	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	\$ 2,537.84
	a. COUNTY DUE DILIGENCE															0	\$ -
	b. TXDOT ENVIRONMENTAL CLEARANCE													8		8	\$ 2,537.84
	Species Analysis															0	\$ -
	HazMat ISA															0	\$ -
	THC Coordination (Histocial and TAC)															0	\$ -
	CIA															0	\$ -
	c. DATA COLLECTION & FIELD RECONNAISSANCE															0	\$ -
	d. HAZARDOUS MATERIALS ENVIRONMENTAL SITE ASSESSMENT															0	\$ -
	e. SECTION 404 CLEAN WATER ACT COMPLIANCE															0	\$ -
	f. ENDANGERED SPECIES ACT COMPLIANCE															0	\$ -
	g. HISTORICAL SITE COMPLIANCE															0	\$ -
	h. TEXAS ANTIQUITIES CODE (TAC) COMPLIANCE															0	\$ -
	i. DELIVERABLES															0	\$ -

Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Design Services for
Williamson County - Chandler Road at FM 1660
Burns & McDonnell Engineering Company, Inc.
3/27/2025

Activity No.	Task Description	Project Manager	Support Manager	Engineer (Senior)	Engineer (Project)	Engineer (Design)	Engineer (Traffic) - Senior	Engineer (Traffic)	Engineer-In-Training	Engineer Technician - Senior	Sr. Structural Engineer	Structural Engineer	Sr. Drainage Engineer	Environmental PM - Senior	Administrative/ Clerical	Total Hours	Total Labor Cost
		\$ 338.15	\$ 320.00	\$ 294.61	\$ 256.84	\$ 217.18	\$ 277.00	\$ 217.67	\$ 154.86	\$ 196.40	\$ 293.28	\$ 240.63	\$ 294.61	\$ 317.23	\$ 128.42		
8.0	GEOTECHNICAL SERVICES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
a.	BORINGS															0	\$ -
b.	GEOTECHNICAL REPORTS															0	\$ -
c.	SCOUR ANALYSIS (1)															0	\$ -
d.	DELIVERABLES															0	\$ -
9.0	PLAN PREPARATION	49	47	5	45	105	15	15	130	140	60	20	45	0	0	676	\$ 158,158.80
a.	PLAN PREP (Revised 60%)															0	\$ -
b.	DESIGN CRITERIA & CONCEPTUAL LAYOUT (Pre-30% Submittal)															0	\$ -
	Transmission Tower	2	2	3	3				10	10	5	10				45	\$ 10,355.95
	Cross Slope WBFR	2	2	2	2											8	\$ 2,419.20
	Transmission Lines	2	2			5					10					19	\$ 5,335.00
	Existing culvert at western terminus	2	2										6			10	\$ 3,083.96
	Existing culvert at intersection	2	2										6			10	\$ 3,083.96
	No additional ROW acquisition on south side	2	2			5			10	10						29	\$ 5,914.80
	FM 1660 turn lanes under bridge	2	2			5			10	10	5	10				44	\$ 9,787.50
	FM 1660 Rt. Turn lanes and sidewalk analysis	2	2			5					10					19	\$ 5,335.00
	Alternatives (Sheriff, owners, Ultimate FM 1660 profile, Signal Pole)	2	2			5										9	\$ 2,402.20
	Schematic not finished	2	2			5										9	\$ 2,402.20
	Additions of interim U-turns	2	2			5			10	10	10					39	\$ 8,847.60
c.	ROADWAY															0	\$ -
	Re-design horizontal alignment	2	2		10	20										34	\$ 8,228.30
	Re-design vertical alignment	2	2		10	20	5	5			10					54	\$ 13,634.45
	Revise Typical sections	2	2						30							34	\$ 5,962.10
	Re-model cross sections	2	2		10					50						64	\$ 13,704.70
	Define side slope and protection	2	2				10	10								24	\$ 6,263.00
	Grading revisions due to bridge segments	2	2										20			24	\$ 7,208.50
	Re-design retaining walls	2	2						50	50	10					114	\$ 21,812.10
d.	DRAINAGE	4	4			10							8			26	\$ 7,161.28
e.	SIGNING, MARKINGS, & SIGNALIZATION	5	5		10											20	\$ 5,859.15
f.	TRAFFIC CONTROL	2				10			10							22	\$ 4,396.70
g.	WATER QUALITY (SWPPP)	2	2			10							5			19	\$ 4,961.15
h.	DELIVERABLES															0	\$ -
10.0	PERMITS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
11.0	BIDDING PHASE SERVICES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -
a.	BIDDING PHASE SERVICES	0	0													0	\$ -
b.	DELIVERABLES															0	\$ -
	ODE																\$0.00
	Totals	173	121	5	45	105	15	15	130	140	60	20	45	8	10	892	\$227,591

Attachment D - Fee Schedule

Burns & McDonnell

Other Direct Expenses	QUANT	UNITS	RATE	TOTAL
Standard Postage	0	letter	\$0.49	\$0.00
Overnight Mail - letter size	0	each	\$23.75	\$0.00
Overnight Mail - oversized box	0	each	\$53.00	\$0.00
Photocopies B/W (8 1/2" X 11")	0	each	\$0.10	\$0.00
Photocopies B/W (11" X 17")	0	each	\$0.20	\$0.00
Photocopies Color (8 1/2" X 11")	0	each	\$0.75	\$0.00
Photocopies Color (11" X 17")	0	each	\$1.25	\$0.00
Plots (Color on Bond)	0	square foot	\$1.95	\$0.00
Database Search Hazmat ISA	0	search	\$350.00	\$0.00
Public Involvement	0	event	\$250.00	\$0.00
Presentation Boards 30" X 40" Color Mounted	0	each	\$125.00	\$0.00
Other Direct Expense Tab 1 Total				\$0.00

Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Design Services for

ATTACHMENT D-FEE SCHEDULE
METHOD OF PAYMENT: LUMP SUM

Work Authorization No. 1, SWA 1/2
PRIME PROVIDER NAME: B&M
PROJECT NAME: Chandler Road
Limits:
Subprovider: K Friese

TASK DESCRIPTION	Principal I	Project Manager III	Professional Engineer II	GIS Technician Senior	CAD Technician Senior	Administrative Specialist III	TOTAL LABOR HRS & COSTS
1 - PROJECT MANAGEMENT AND ADMINISTRATION							
b. Monthly Progress Reports, Invoices, and Billings (Assume 6 extra months)		6				6	12
c. Quality Assurance and Quality Control (QA/QC) Plan							0
d. Project Coordination & Administration		4	2				6
e. Progress/Coordination Meetings (Assume 14 meetings)		13	13		13		52
f. Project Schedule							0
g. Project Documents/Files							0
HOURS SUB-TOTALS	0	23	15	0	13	6	70
CONTRACT RATE PER HOUR	\$320.00	\$210.00	\$170.00	\$160.00	\$150.00	\$90.00	
TOTAL LABOR COSTS	\$0.00	\$4,830.00	\$2,550.00	\$0.00	\$1,950.00	\$540.00	\$11,560.00
SUBTOTAL 1- PROJECT MANAGEMENT AND ADMINISTRATION							\$11,560.00
6-DRAINAGE STUDY							
a. Hydrologic/Hydraulic Modeling							0
b. Impact and Mitigation Analysis							0
c. Deliverables							0
HOURS SUB-TOTALS							0
CONTRACT RATE PER HOUR							
TOTAL LABOR COSTS							\$0.00
SUBTOTAL 5-DRAINAGE STUDY							\$0.00

Attachment D - Fee Schedule

TASK DESCRIPTION	Principal I	Project Manager III	Professional Engineer II	GIS Technician Senior	CAD Technician Senior	Administrative Specialist III	TOTAL LABOR HRS & COSTS
9-PLAN PREPARATION							
a. Plan Preparation							0
b. Design Criteria & Conceptual Layouts							0
c. Roadway							0
d1. Drainage Design							0
Final Hydrologic Modeling	0	4	6	0	0		34
Final Hydraulic Modeling (1 locations)	0	4	6	0	0		26
Final Detention (1 locations)	0	4	8	0	0		36
Final Cross structure design	0	0	2	0	0		6
Final parallel design - Bridge Limit Changes	0	5	8	0	12	0	41
Final parallel design - Cost Savings	0	4	6	0	0		26
Draft Drainage Report	0	0	0	0	0		0
Final Drainage Report	0	4	6	0	0		26
d2. Drainage Plans							0
Offsite (1 sheets)	0	0	0	0	0	0	0
Hydrologic Data Sheets (1 sheet)	0	0	2	0	0	0	10
Onsite DAM (3 sheets)	0	0	2	0	12	0	22
Onsite Plan (3 sheets) - Bridge Limit Changes	0	1	2	0	4		11
Onsite Plan (3 sheets) - Cost Savings	0	0	2	0	10	0	20
Culvert Layout (1 sheets)	0	2	2	0	6	0	12
Hydraulic Data Sheet (1 sheet)	0	0	0	0	2	0	4
Detention Sheets (1 sheets)	0	0	2	0	6	0	14
Detention Details (1 sheets)	0	0	2	0	6	0	12
d3. Drainage QC	2	8	8		4		26
e. Signing, Markings, & Signalization							0
f. Traffic Control							0
g. Water Quality Plans							0
HOURS SUB-TOTALS	2	36	64	0	62	0	326
CONTRACT RATE PER HOUR	\$320.00	\$210.00	\$170.00	\$160.00	\$150.00	\$90.00	
TOTAL LABOR COSTS	\$640.00	\$7,560.00	\$10,880.00	\$0.00	\$9,300.00	\$0.00	\$49,440.00
SUBTOTAL 8-PLAN PREPARATION							\$49,440.00
11-BIDDING PHASE SERVICES							
a. Bidding Phase Services							0
HOURS SUB-TOTALS	0	0	0	0	0	0	0
CONTRACT RATE PER HOUR	\$320.00	\$210.00	\$170.00	\$160.00	\$150.00	\$90.00	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SUBTOTAL 10-BIDDING PHASE SERVICES							\$0.00

Attachment D - Fee Schedule

	Principal I	Project Manager III	Professional Engineer II	GIS Technician Senior	CAD Technician Senior	Administrative Specialist III	TOTAL LABOR HRS & COSTS
1 - PROJECT MANAGEMENT AND ADMINISTRATION	0	23	15	0	13	6	70
2-PUBLIC INVOLVEMENT	0	0	0	0	0	0	0
3-UTILITY COORDINATION SUPPORT	0	0	0	0	0	0	0
5-SURVEYING	0	0	0	0	0	0	0
6-DRAINAGE STUDY	0	0	0	0	0	0	0
7-ENVIRONMENTAL SERVICES	0	0	0	0	0	0	0
8-GEOTECHNICAL SERVICES	0	0	0	0	0	0	0
9-PLAN PREPARATION	2	36	64	0	62	0	326
10-PERMITS	0	0	0	0	0	0	0
11-BIDDING PHASE SERVICES	0	0	0	0	0	0	0
SUBTOTAL LABOR EXPENSES	2	59	79	0	75	6	396
OTHER DIRECT EXPENSES	# OF UNITS	COST/UNIT					COST
Mileage							\$0.00
Lodging/Hotel (Taxes/ fees)							\$0.00
Lodging/Hotel (Taxes/fees not included)							\$0.00
Meals (Excluding Alcohol & tips) (Overnight stay required)							\$0.00
Rental Car Fuel							\$0.00
Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed)							\$0.00
Toll Charges							\$0.00
Overnight mail - oversized box							\$0.00
Courier Services							\$0.00
Photocopies B/W (8 1/2" x 11")	100	\$0.10					\$10.00
Photocopies B/W (11" x 17")	100	\$0.20					\$20.00
Photocopies Color (8 1/2" x 11")	10	\$0.75					\$7.50
Photocopies Color (11" x 17")	10	\$1.50					\$15.00
Plots (Color on Bond)							\$0.00
TCEQ Contributing Zone Permit Application Fee		\$5,000.00					\$0.00
							\$0.00
SUBTOTAL DIRECT EXPENSES							\$52.50

Total: \$61,052.50

Chandler Road Overpass at FM 1660

Hardesty & Hanover, LLC (H&H)		Project Principal	Senior Technical Advisor	Sr Project Manager	Sr Structural QA/QC Manager	Sr Structural Engineer	Sr Drainage Engineer	Sr Roadway Engineer	Project Manager	Structural Engineer	Project Engineer	Design Engineer	Structural Designer (EIT)	EIT	Sr Engineer Technician	Senior CAD Technician	CAD Technician	Admin/Clerical	Total Labor Hours	Task Cost
		\$335.00	\$300.00	\$260.00	\$255.00	\$250.00	\$245.00	\$245.00	\$200.00	\$165.00	\$140.00	\$135.00	\$125.00	\$110.00	\$150.00	\$105.00	\$95.00	\$90.00		
H&H Additional Scope - Extending East End of Bridge by 480 ft																				
	1. Project Management																			
	b. Monthly Progress Reports, Invoices, and Billings (15 months)																		0	
	c. QA/QC Plan (Note - Ongoing QA/QC of deliverables included in items below)																		0	
	d. Project Coordination and Administration additional coordination for extending bridge	1		2		2													5	
	e. Progress/Coordination Meetings (32 meetings) assume H&H attends 2 add'l mtgs with GEC			4															4	
	f. Project Schedule coordinate with BMcD re: schedule			1															1	
	g. Project Documents/Files (collect/transmit at additional milestone - 30% resubmittal)			1						1					1				3	
	TASK HOURS SUBTOTALS	1	0	8	0	2	0	0	0	1	0	0	0	0	1	0	0	0	13	
	TASK FEE SUBTOTALS	\$335.00	\$0.00	\$2,080.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00	\$165.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00	\$0.00	\$0.00	\$0.00		\$3,230.00
	2. Public Involvement																			
	a. Public Involvement Support (provide data and exhibit for bridge)																		0	
	b. Property Owner Meeting Support (2 meetings) assume no H&H attendance req'd																		0	
	c. Stakeholder Meetings (3 meetings) assume no H&H attendance req'd																		0	
	TASK HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE TOTAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	3. Utility Coordination Support																			
	a. Incorporate Utility Information (provided by others) incorporate in bridge plans																		0	
	b. Utility Meeting (1 meeting) provide info for utility conflicts w/ Bridge																		0	
	TASK HOURS SUBTOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE SUBTOTALS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	4. ROW Mapping assume no H&H effort																			
	a. ROW Map																		0	
	TASK HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE TOTAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	5. Surveying assume no H&H effort																			
	a. Right of Entry (5 letters)																		0	
	b. Field Surveying																		0	
	TASK HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE TOTAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	6. Drainage Study assume no H&H effort																			
	a. Hydrologic/Hydraulic Modeling (1 major channel crossing, 2 cross drainage structures)																		0	
	b. Impact and Mitigation Analysis																		0	
	TASK HOURS SUBTOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE SUBTOTALS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	7. Environmental Services assume no H&H effort																			
	a. Environmental Studies and Documentaion for WCCF and TCEQ																		0	
	TASK HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE TOTAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	8. Geotechnical Services																			
	a. Borings assume no H&H effort																		0	
	b. Geotechnical Reports additional coordination w/ Geotech for the additional bents			2						3									5	
	TASK HOURS SUBTOTALS	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	5	
	TASK FEE SUBTOTALS	\$0.00	\$0.00	\$520.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$495.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1,015.00

Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Design Services for

Williamson County - Chandler Road at FM 1660
Burns & McDonnell Engineering Company, Inc.
3/27/2025

Attachment D - Fee Schedule

	9. Plan Preparation																			
	b1. Data Collection & Field Reconnaissance <i>(as-builts, etc related to bridge)</i>																		0	
	b2. Design Criteria & Design Summary Report																		0	
	b3. Conceptual Layout <i>Bridge - Optimize bridge layout for pre-30%</i>																		0	
	c. Roadway																		0	
	Bridge Design																			
	<i>Chandler Rd Overpass at FM 1660 (Assume 4 additional spans, straight alignment, no phased construction)</i>																			
	BRIDGE LAYOUT (assume 2 extra sheets)			6					12			12		6	12	12			60	
	BRIDGE TYP SECTION (assume minor changes)			1					2						2				5	
	ESTIMATED QUANTITIES & BEARING SEAT ELEVS <i>(incl geometry calcs) (for additional spans)</i>			2					4			8		2	4	2			22	
	FOUNDATION LAYOUT <i>(incl foundation design) (for additional spans)</i>			2					6			12		2	8	4			34	
	BORING LOGS (assume 3 additional bore holes required)			1					1			4		2	6	6			20	
	ABUTMENTS <i>(no change from original scope)</i>																		0	
	INTERIOR BENTS <i>(assume 1 additional unique)</i>			2					4			16		4	12	8			46	
	GIRDER LAYOUT (assume 2 additional units)			2					4			8		2	6	8			30	
	PRESTRESSED CONCRETE GIRDER UNIT (assume 2 additional units)			6					8			24		6	12	16			72	
	IGND <i>(incl beam design) (for 4 additional spans)</i>			2					4			8				2			16	
	OBD MODEL (for 4 additional spans)			2		4						24		10					40	
	TXDOT BRIDGE STANDARDS (no change)																		0	
	TXDOT (MOD) BRIDGE STDS (no change)																		0	
	Constructability & Interdiscipline Review (additional sheets to review)				1	1			1										3	
	General Notes, Specifications (no change)																		0	
	Prepare 60%, 90%, 100% and Final Cost Estimates (add'l items to quantify & price)			1					2			4							7	
	Resubmit 30% bridge layout incorporating extra spans (incl QA/QC &Wilco Checklist)			2	2	8			2			2			2				18	
	Prepare 60%, 90%, 100%, Final PS&E Submittals incl QA/QC &Wilco Checklist (for additional spans)			6	6	32			6			3			6				59	
	Prep Final Calculation Packages & CADD files (for additional spans)			1	2				2			8		1					14	
	d. Drainage <i>no H&H effort</i>																		0	
	e. Signing, Markings, & Signalization <i>assume no H&H effort</i>																		0	
	f. Traffic Control ASSUME <i>no H&H effort</i>																		0	
	g. Water Quality <i>assume no H&H effort</i>																		0	
	TASK HOURS SUBTOTALS	0	0	36	11	45	0	0	0	58	0	0	133	0	35	68	60	0	446	
	TASK FEE SUBTOTALS	\$0.00	\$0.00	\$9,360.00	\$2,805.00	\$11,250.00	\$0.00	\$0.00	\$0.00	\$9,570.00	\$0.00	\$0.00	\$16,625.00	\$0.00	\$5,250.00	\$7,140.00	\$5,700.00	\$0.00		\$67,700.00
	10. Permits <i>assume no H&H effort</i>																			
	a. Xxx																		0	
	b. Xxx																		0	
	TASK HOURS SUBTOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE SUBTOTALS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	11. Bidding Phase Services																			
	a. Prepare Construction Documents <i>(assist BMcD with assembling bid docs)(no change)</i>																		0	
	b. Attend Prebid Meeting <i>(no change)</i>																		0	
	c. Prepare project addenda <i>(no change)</i>																		0	
	d. Analyze Contractor bids, prepare bid tabs & make award recommendation <i>(no change)</i>																		0	
	e. Attend pre-construction conference <i>(no change)</i>																		0	
	TASK HOURS SUBTOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TASK FEE SUBTOTALS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
	TOTAL H&H LABOR HOURS	1	0	46	11	47	0	0	0	62	0	0	133	0	36	68	60	0	464	
	TOTAL H&H LABOR COSTS	\$335.00	\$0.00	\$11,960.00	\$2,805.00	\$11,750.00	\$0.00	\$0.00	\$0.00	\$10,230.00	\$0.00	\$0.00	\$16,625.00	\$0.00	\$5,400.00	\$7,140.00	\$5,700.00	\$0.00		\$71,945.00

	OTHER DIRECT EXPENSES	QUANTITY	UNIT	Rate	TOTAL															
	H&H Direct Expenses:																			
	Toll Charges		EA	\$2.00	\$0.00															
	Parking		EA	\$20.00	\$0.00															
	Courier		EA	\$50.00	\$0.00															
	Postage		EA	\$0.68	\$0.00															
	Photocopies B/W (8 1/2" X 11")		PAGE	\$0.15	\$0.00															
	Photocopies Color (8 1/2" X 11")		PAGE	\$1.00	\$0.00															
	Photocopies B/W (11" X 17")		PAGE	\$0.32	\$0.00															
	Photocopies Color (11" X 17")		PAGE	\$2.00	\$0.00															
	CD-ROM		EA	\$1.00	\$0.00															
	Large Format Plotting		SF	\$2.50	\$0.00															
	Mileage		MILE	\$0.67	\$0.00															
	SUBTOTAL DIRECT EXPENSES				\$0.00															
	SUMMARY																			
	Subtotal Labor	\$71,945.00																		
	Subtotal Direct Expenses	\$0.00																		
	TOTAL H&H FEE	\$71,945.00																		

Attachment D - Fee Schedule

CHANDLER ROAD OVERPASS AT FM 1660														UNITS	SENIOR QC ENGINEER REVIEWER	SENIOR PROJECT ENGINEER	PROJECT MANAGER	DESIGN ENGINEER	PROJECT ENGINEER	EIT	Field Coordinator /Logger	Senior Technician	GIS/CADD Tech	ADMIN	Sub Total	Hr/Unit	RKCI Labor	
Hourly Rate:															\$255.00	\$233.58	\$204.10	\$182.03	\$159.12	\$146.07	\$119.02	\$91.80	\$110.16	\$71.40				
TASK																										Hours		Cost
GEOTECHNICAL ENGINEERING SERVICES- LABOR																												
																									0		\$ -	
GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS																									0		\$ -	
PROJECT KICKOFF																	0								0		\$ -	
FIELD COORDINATION (STAKE BORINGS AND UTILITY LOCATE)																	0			2	18			20		\$ 2,434.50		
FIELD EXPLORATION																					8	42			50		\$ 4,807.70	
LABORATORY ASSIGNMENT																			1	4					5		\$ 743.40	
SOIL BORING LOGS																	0		1	4					5		\$ 743.40	
SITE PLAN																			1	2			3		6		\$ 781.74	
PVR ANALYSES																			4	4					8		\$ 1,220.76	
DRILLED SHAFT CAPACITIES (WINCORE capacity charts and LPILE parameters)																0		4	6					10		\$ 1,512.90		
RETAINING WALL STABILITY (external and global stability)																									0		\$ -	
FLEXIBLE PAVEMENT DESIGN ANALYSES (3 OPTIONS)																									0		\$ -	
RIGID PAVEMENT DESIGN ANALYSES (1 OPTION)																									0		\$ -	
DRAFT PAVEMENT DESIGN REPORT PREPARATION																									0		\$ -	
DRAFT GEOTECHNICAL REPORT PREPARATION (BRIDGE)																	2		8	18				1	29		\$ 4,381.82	
REPORT REVIEWS & FINALIZATIONS																	2		2	8				1	13		\$ 1,966.40	
DESIGN TEAM MEETINGS																	3								3		\$ 612.30	
INVOICE PROJECT CLOSE OUT																	1							2	3		\$ 346.90	
																											\$ -	
																											\$ -	
																											\$ -	
TOTALS														0													Row Total = 152	
HOURS:															0	0	8	0	21	48	26	42	3	4		Column Total = 152		
LABOR COST:														\$ -	\$ -	\$ 1,633	\$ -	\$ 3,342	\$ 7,011	\$ 3,095	\$ 3,856	\$ 330	\$ 286			\$ 19,551.88		
														0.0%	0.0%	5.3%	0.0%	13.8%	31.6%	17.1%	27.6%	2.0%	2.6%			\$ 19,551.88		
UNIT EXPENSES:																												
SWA SCOPE BRIDGE (OVERPASS) EXTENSION BORINGS														FIELD OPERATIONS														
4 Bridge Borings to 75 ft @ Overpass (total drilling footage = 300 ft)														Mobilization of Drill Rig							4 units	\$600.00 each	\$2,400.00					
2 Bulk Samples between BR-1 and BR-3														Logger truck							4 units	\$68.01 day	\$272.04					
														3" Thin-Wall Continuous Sampling							300 ft	\$24.40 ft	\$7,320.00					
														Hollow stem drilling							0 ft	\$30.89 ft	\$0.00					
														NX Rock Coring (Shale)							0 ft	\$40.31 ft	\$0.00					
														NX Rock Coring (Limestone)							0 ft	\$53.04 ft	\$0.00					
														TCP with Intermittent Sampling							60 units	\$32.88 each	\$1,972.80					
														Standard Penetration Test (SPT)							0 ft	\$29.92 each	\$0.00					
														Bentonite Backfill							300 ft	\$7.00 ft	\$2,100.00					
														Pavement Core and Patch (assumes off asphalt)							0 units	\$93.05 each	\$0.00					
														Concrete/AC Patch							0 units	\$79.38 each	\$0.00					
Anticipated Geology: High Gravel Deposits overlying Ozan Formation														Standby (setup time and cleanup)							8 hrs	\$284.29 hr	\$2,274.32					
														Falling Weight Deflectometer (FWD) and Ground Penetr							0 Units	\$22,000.00 each	\$0.00					

Attachment D - Fee Schedule

Project:
Chandler Road
@ FM 1660
Client: Burns & McDonnell
Date: February 26, 2025

FEE SCHEDULE (SAM, LLC) - TIME AND MATERIALS PAYMENT BASIS DESIGN SURVEY

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	PROJECT COORDINATOR	SENIOR SURVEY TECHNICIAN	SURVEY TECHNICIAN	2-PERSON SURVEY CREW	FIELD COORDINATOR	GEOSPATIAL SENIOR PM	GEOSPATIAL PM	PROJECT LEAN/SENIOR TECH	CALIBRATION/ A T/LIDAR/IMAGE	LIDAR/EXTRACTION/ORTHO IMAGERY	TOTAL LABOR HRS. & COSTS
Design Survey													
Geotech Bore Hole Staking (Up to 4 bore holes in one mobilization)		2		4		10	0.5						\$2,870.00
													\$0.00
													\$0.00
													\$0.00
	0	2	0	4	0	10	0.5	0	0	0	0	0	\$2,870.00
RIGHT OF WAY MAPPING													
													\$0.00
													\$0.00
													\$0.00
ROW Mapping Sub-Total													\$0.00
	\$0.00	\$410.00	\$0.00	\$540.00	\$0.00	\$1,850.00	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
CONTRACT RATE PER HOUR	\$250.00	\$205.00	\$150.00	\$135.00	\$120.00	\$185.00	\$140.00	\$275.00	\$210.00	\$135.00	\$120.00	\$105.00	
OTHER DIRECT EXPENSES	# OF UNITS	COST/UNIT											
Mileage (number x current state rate)	80	\$0.67		mile									\$53.60
GPS RTK	10	\$10.00		hr									\$100.00
Ground Targets		\$20.00		each									\$0.00
Primary Control Monuments		\$90.00		each									\$0.00
FWAL Project Flight Miles		\$32.00		per mile									\$0.00
FWAL Transit Miles		\$12.00		per mile									\$0.00
Riegl VQ 1560I or 1560II LIDAR		\$1,300.00		per hour									\$0.00
Digital Image Processing		\$27.00		per image									\$0.00
Fixed wing single engine turbine		\$1,400.00		per hour									\$0.00
SUBTOTAL DIRECT EXPENSES													\$153.60

SUMMARY	
	\$2,870.00
	\$0.00
	\$153.60
TOTAL SAM SURVEY	\$3,023.60

Level of Effort Spreadsheet
TASK/HOUR BREAKDOWN
Design Services for
Williamson County - Chandler Road at FM 1660
Burns & McDonnell Engineering Company, Inc.
3/27/2025