WORK AUTHORIZATION

WORK AUTHORIZATION NO. __2__
PROJECT: __North Barker Street____

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated **March 19, 2024** and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Johnson, Mirmiran & Thompson, Inc. (the "Engineer").

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

Part 2. The maximum amount payable for services under this Work Authorization without modification is $183,304.00.

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 May 30, 2025. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

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

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

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

Continued next page

EXECUTED THIS _____

ENGINEER:

Johnson, Mirmiran & Thompson, Inc.

By: _____
Signature

Kristi Flagg
Printed Name

Senior Vice President
Title

COUNTY:

Williamson County, Texas

By: _____
Signature

_____
Printed Name

_____
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 9:10 am, Sep 19, 2024

ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY
NORTH BARKER STREET

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER
DESIGN SERVICES FOR NORTH BARKER STREET

PROJECT DESCRIPTION

Project Limits

From County Road 424 to the East end of North Barker Street (approximately 900 feet in length).

Existing Facility

North Barker Street is an uncurbed asphalt road that is approximately 18' wide with no shoulders and no pavement markings. There is a large channel, Spring Branch, between North Barker Street and South Barker Street. The existing right-of-way is approximately 25'.

Proposed Facility

The proposed improvements include resurfacing North Barker, channel improvements, between North and South Barker Streets, reestablish the channel on Stiles Foundation property, and the development of an emergency vehicle crossover.

Design Criteria

The project will be designed in accordance with the Williamson County Design and City of Thrall design criteria. It is anticipated that in most cases the most stringent of the design criteria will be used.

1. PROJECT MANAGEMENT

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

    b. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS (6 months assumed):

        - Submit monthly progress status reports to the GEC. Progress reports will include 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.

- 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:

- For each deliverable, 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.

- Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.

d. PROJECT COORDINATION & ADMINISTRATION:

- Prepare and maintain routine project record keeping including records of meetings.
- Correspondence and coordination will be handled through & with the concurrence of the GEC.
- Manage Project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, 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 (6 external meetings assumed):

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

f. PROJECT SCHEDULE:

- Develop a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables. Submit to County as part of each milestone and as requested.
- Maintain a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables.

g. DELIVERABLES:

- Monthly Invoices and Progress Reports
- Meeting Minutes, Sign-In Sheets, and Agendas

2. ROUTE AND DESIGN STUDIES

a. DATA COLLECTION:

- Perform record research and obtaining existing information, including but not limited to as-built plans, construction plans, right of way maps, environmental reports, studies, future land use maps, floodplain data, floodplain and drainage models and analyses. Obtain construction plans for projects within the project limits and abutting TxDOT and County Roads. Obtain drainage studies, reports, and mapping for the project area, including reports for developments affecting the drainage area.
- Develop and maintain adjacent property ownership information (including owner's name, mailing address, property address, property id number) spreadsheet to be used for disseminating project information.
- Review aerial photography and contours provided by Williamson County. County provided aerial photography, and contours will be the basis for developing Geometric design.
- Review the data collected and organize the information.

b. STAKEHOLDER COORDINATION (6 meetings assumed):

- Prepare agendas, sign in sheets, meeting minutes, discussion topics, presentations, overall exhibits, and maps of the project limits for stakeholder coordination meetings.

- Coordinate with affected local agencies, County's consultants, and affected property owners.

c. DELIVERABLES:

- Meeting Minutes, Sign-In Sheets, Agendas, Presentations, Maps, and Exhibits for all Stakeholder Coordination Meetings.
- Design Summary Form (pdf and hardcopies)

3. PUBLIC INVOLVEMENT

a. The Engineer will provide general public outreach and engagement throughout the project. A database will be developed and maintained in Excel format which includes nearby property owners and residents, businesses, churches, educational/community organizations, elected/public officials, and any interested individuals. The Engineer will identify and reach out to key stakeholders that may be interested and will collect contact information for updates.

- Support the City with one property owner meeting (up to 1 if requested)

b. PUBLIC MEETING/OPEN HOUSE (1 public meeting assumed):

- Prepare handout materials, presentation, and exhibits for public viewing. Develop an invitation list of affected property owners, elected officials, stakeholders, school districts, local affected agencies, utility owners, and any other individuals who have showed interest in the project.
- Plan, schedule, conduct, and facilitate public meeting to share project information with and collect feedback from citizens and stakeholders. Tasks may include, but not limited to calling and/or visiting potential meeting sites; reserving meeting space; announcing the meetings by distributing meeting information and coordinating with attendees; holding and participating in meeting rehearsals; and facilitating meetings.
- Coordinate meeting announcements such as letters, email notices, signage, media releases, and postings.
- Provide experienced meeting facilitator and attend public open house meetings to solicit input from the general public.

- Prepare public meeting summary and responses to any comments or questions provided.

c. DELIVERABLES:

- Sign-In Sheets, Handouts, Presentations, Maps, and Exhibits for Public Meeting.
- Open House Meeting Summary and comment responses.

4. SURVEYING

a. RIGHT OF ENTRY (1 letter assumed):

- The Engineer to prepare exhibits and provide to the County to prepare and mail right of entry letters per the County's standard for the project team including geotechnical and environmental.

b. FIELD SURVEYING:

- Topographic Survey of Channel through neighborhood. Includes channel cross-sections every 100-ft.
- Tree Survey along channel through neighborhood.
- Boundary/Drainage Easement Survey through neighborhood
- Set Project Control (Horizontal and Vertical)

c. DELIVERABLES:

- Right of Entry Exhibits
- Collect Field Survey Data for hydraulic analysis of channel.
- Survey of Drainage Easement

5. DRAINAGE STUDY

a. HYDROLOGIC/HYDRAULIC MODELING (1 major channel crossing, 1 cross drainage structure assumed):

The culvert crossing and roadway crossing of Spring Branch are assumed to be a low-water crossing and will not safely pass the 25- or 100-yr events without overtopping. In addition, it is expected that there will be some quantifiable increase in peak runoff from Spring Branch to the Stiles Foundation property due to improved channel conveyance (via a proposed concrete trapezoidal or concrete rectangular channel). This increase in peak runoff may result in an increase in peak 100-yr water surface elevations on the Stiles Foundation property.

It is assumed that the drainage easement along Spring Branch, through the residential neighborhood, will remain unchanged and that all proposed improvements shall be located within the existing drainage easement limits. A temporary construction easement will likely be needed to fill in the channel within private property. It is assumed that services of an environmental firm will be needed to evaluate if fill of this channel within private property will constitute fill within Waters of the US, and if this will require a NWP or Individual Permit to resolve.

Prepare hydrologic and hydraulic models or modify existing models (FEMA, drainage districts, river authorities, cities, etc.) if available, to define the drainage infrastructure required for the project. Detail the methodologies employed and recommendations. The analysis will include preparation of a preliminary design of the right of way drainage system, cross drainage structures, right-of-way drainage, major channel crossings to reflect the existing and proposed conditions, recommended minimum pavement elevations based on cross drainage flood elevations, right of way requirements, identify potential needs for FEMA Coordination. HEC-RAS shall be utilized for all stream modeling.

- Develop existing channel cross sections based on data collection.
- Exhibits and analysis will be prepared in the GIS environment to the extent practical.

b. IMPACTANALYSIS & Drainage Report:

- Prepare a summary drainage report documenting impacts and following the County Bond Program Drainage Standards. Report will document findings of the drainage analysis and will clearly establish potential adverse impacts.

- Impact Analysis will focus on increases in peak flow rates and water surface elevations for the 100-yr frequency storm.

c. DELIVERABLES:

- Preliminary & Final Drainage Report.
- H&H Model

6. ENVIRONMENTAL SERVICES

a. COUNTY DUE DILLIGENCE:

- The Environmental Services will include studies and documentation required, per the Williamson County Environmental Protocol, for the various regulating authorities, including the Texas Historical Commission (THC), U.S. Army Corp of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), Williamson County Conservation Foundation (WCCF), TCEQ and the City of Thrall. The intention of the Environmental Services is to attain the necessary clearance letters and approvals in order to proceed with the proposed project.

b. DATA COLLECTION & FIELD RECONNAISSANCE:

- Obtain and update periodically publicly available information including but not limited to locations of public buildings (schools, churches, parks), aerial photography, National Wetland Inventory Maps, County Soil Survey Maps, TCEQ & EPA Hazardous Materials Database Information, FEMA Floodplain Information, Vegetation Information, Environmental Information from the appropriate local, state, or federal agencies, including for state and federally-listed species, Edwards Aquifer information.

- Conduct a regulatory records review to identify listed hazardous waste generators, treatment, storage and disposal facilities; solid waste landfills, unauthorized sites; documented spills; oil and gas exploration and production sites; and underground storage tank sites within the proposed site location. The review will also identify other environmental risks along the project corridor.

- Conduct field reconnaissance to visually inspect the project site for additional risks and field verify any environmental risks identified by the regulatory records review.

c. HAZARDOUS MATERIALS INITIAL SITE ASSESSMENT:

- Prepare a Hazardous Materials Initial Site Assessment (ISA) based on the data collection and field reconnaissance conducted and identify potential hazardous material sites that may be impacted by the proposed project. The intended scope does not include preparing a Phase I ESA in compliance with ASTM E1527-21 standards.

d. SECTION 404 CLEAN WATER ACT COMPLIANCE:

- Conduct a site visit that will determine if water resources are present. If no water resources are identified in the project area, document these findings in the water resources section of the due diligence report.

- If water resources are present, delineate wetland boundaries and ordinary high-water marks of jurisdictional waters within the project ROW. Prepare a Jurisdictional Waters Delineation Report identifying specific impacts of the project on the Waters of the U.S., measures to minimize the impacts will be identified, and discuss applicable Section 404 options in accordance with current permits and conditions based on data collection and field reconnaissance. It is anticipated that this project will be covered under a Nationwide Permit (NWP 14) without a pre-construction notification (PCN).

e. HISTORICAL SITE COMPLIANCE:

- Conduct database searches of the THC Atlas to identify properties and districts listed in the NRHP or designated as National Historic Landmarks, SALs, Registered Texas Historic Landmarks, TxDOT's previously surveyed historic districts and properties, and historic bridges. Results of the research will be integrated with other appropriate data sources to prepare a letter to coordinate the project with the THC. If the project is subject to Section 106 of the NHPA, the letter will establish an area of potential effects (APE). If the project is not subject to Section 106, the letter will serve as part of compliance with the Antiquities Code of Texas. This scope does not include historic resources survey.

f. TEXAS ANTIQUITIES CODE (TAC) COMPLIANCE:

- Prepare a Project Initiation Letter, and associated archeological background study that includes results of restricted and publicly-available datasets for archeological sites, cemeteries, surveys, historic monuments, and other pertinent information.

- Coordination with Texas Historical Commission including submittals to Texas Historical Commission and up to one round of comments.

g. DELIVERABLES:

- Draft & Final Environmental Due Diligence Report

- Draft & Final Regulatory Records Review

- Draft & Final Hazardous Materials Initial Site Assessment

- Draft & Final Wetlands Determination

- Draft & Final Historic Resources Coordination Letter

- Draft & Final Archeological Background Study

7. PLAN PREPARATION

a. Plans shall be prepared per Williamson County criteria including applicable submittal requirements including cost estimate, checklists, hardcopies, CAD files, comment responses, general notes, quantities, updated design schedule, construction time determination.

b. ROADWAY:

- Prepare existing and proposed typical sections, ultimate cross sections created at ultimate increments

- Prepare project layout sheets that identify the project area and limits of work.

c. DRAINAGE:

- Prepare hydraulic calculations for the design of drainage structures on the project and inclusion in the plans.
- Prepare full PS&E for drainage channel and proposed culvert crossing of the drainage channel. PS&E will cover the drainage channel through the residential neighborhood and downstream select clearing/shaping on the eastern landowner's property.
- Effort will include 60%, 100% & Final CDs, quantities, details, and cost estimates.

d. SIGNING & MARKINGS:

- Prepare signing and marking layout per Texas Manual of Uniform Traffic Control Devices (TMUTCD). Detail all non-standard signs or marking details as required for the project.

e. TRAFFIC CONTROL:

- Prepare traffic control plan sequence of construction narrative, per Texas Manual of Uniform Traffic Control Devices (TMUTCD).

f. DELIVERABLES:

- 60% PS&E Submittal
- 100% PS&E Submittal
- Final PS&E Submittal

8. <u>BIDDING PHASE SERVICES</u>

a. BIDDING PHASE SERVICES:

- Prepare all applicable construction documents for bidding. Attend the pre-bid meeting. Respond to bidder's questions during the bid period. Prepare project addenda during bid period. Analyze contractor bids, prepare bid tabulation,

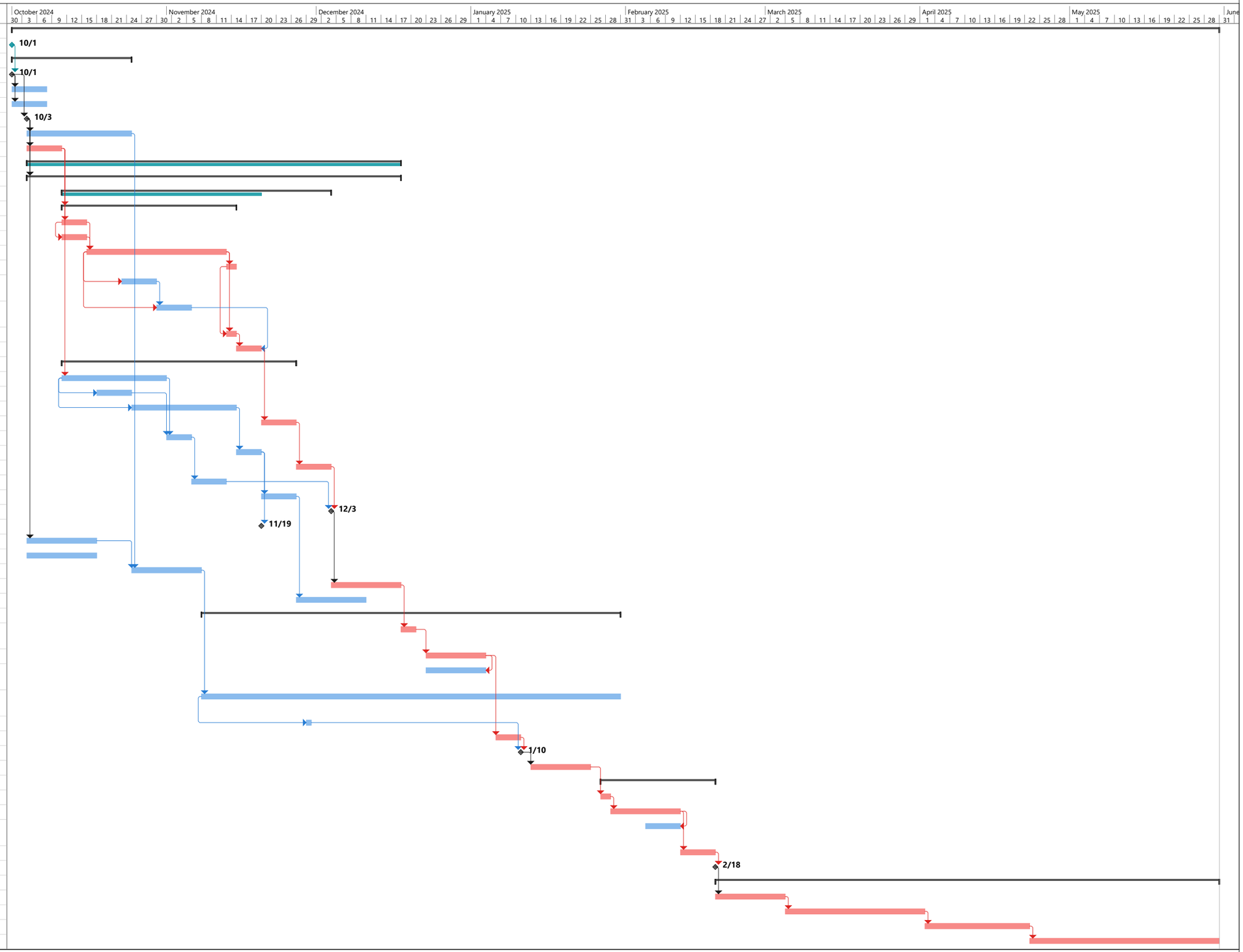
and make recommendations for award to the apparent low bidder. Attend the pre-construction conference.

EXCLUSIONS

- PCN and/or IP
- CLOMR submittal and review period
- LOMR submittal and review period

WORK SCHEDULE WA#2 ATTACHMENT C

ID	Task Name	Duration	Start	Finish
1	**North barker Street Design Schedule**	**174 days**	**Tue 10/1/24**	**Fri 5/30/25**
2	Start Date	0 days	Tue 10/1/24	Tue 10/1/24
3	**NTP & Data Collection**	**18 days**	**Tue 10/1/24**	**Thu 10/24/24**
4	Notice To Proceed (NTP)	0 days	Tue 10/1/24	Tue 10/1/24
5	Data Collection & Field Reconnaissance	5 days	Tue 10/1/24	Mon 10/7/24
6	Right of Entry Coordination	5 days	Tue 10/1/24	Mon 10/7/24
7	Design Concept Conference	0 days	Thu 10/3/24	Thu 10/3/24
8	Environmental Data Collection	15 days	Fri 10/4/24	Thu 10/24/24
9	Design Survey	5 days	Fri 10/4/24	Thu 10/10/24
10	**60% Submittal (PS&E)**	**53 days**	**Fri 10/4/24**	**Tue 12/17/24**
11	**Preliminary Roadway Design**	**53 days**	**Fri 10/4/24**	**Tue 12/17/24**
12	**Develop 60% PS&E (Plans and Estimate)**	**38 days**	**Fri 10/11/24**	**Tue 12/3/24**
13	**Geometric Design**	**25 days**	**Fri 10/11/24**	**Thu 11/14/24**
14	Title Sheet	3 days	Fri 10/11/24	Tue 10/15/24
15	Typical Sections	3 days	Fri 10/11/24	Tue 10/15/24
16	Plan& Profile	20 days	Wed 10/16/24	Tue 11/12/24
17	Intersection/Driveway Details	2 days	Wed 11/13/24	Thu 11/14/24
18	Miscellaneous (HAL, Removal Layout, SW3P, Misc Road details, fiber intl., etc	5 days	Wed 10/23/24	Tue 10/29/24
19	Update Model/design cross sections/earthwork	5 days	Wed 10/30/24	Tue 11/5/24
20	Traffic Control Plans (Narrative only)	2 days	Wed 11/13/24	Thu 11/14/24
21	Signing/Pavement markings	3 days	Fri 11/15/24	Tue 11/19/24
22	**Drainage**	**33 days**	**Fri 10/11/24**	**Tue 11/26/24**
23	Preliminary Drainage Design	15 days	Fri 10/11/24	Thu 10/31/24
24	Culvert Design (include Qty & Estimates)	5 days	Fri 10/18/24	Thu 10/24/24
25	Preliminary Drainage Report	15 days	Fri 10/25/24	Thu 11/14/24
26	60% Roadway QAQC	5 days	Wed 11/20/24	Tue 11/26/24
27	60% Drainage Design (QA/QC)	3 days	Fri 11/1/24	Tue 11/5/24
28	Preliminary Drainage Report (QA/QC)	3 days	Fri 11/15/24	Tue 11/19/24
29	60% PS&E Design Revisions	5 days	Wed 11/27/24	Tue 12/3/24
30	60% Drainage Design Revisions	5 days	Wed 11/6/24	Tue 11/12/24
31	Preliminary Drainage Report Revisions	5 days	Wed 11/20/24	Tue 11/26/24
32	60% PS&E & Drainage Design Submittal	0 days	Tue 12/3/24	Tue 12/3/24
33	Preliminary Drainage Report Submittal	0 days	Tue 11/19/24	Tue 11/19/24
34	Preliminary Enviornmental Exploration	10 days	Fri 10/4/24	Thu 10/17/24
35	Property Owner Meetings	10 days	Fri 10/4/24	Thu 10/17/24
36	Environmental Documentation / Reporting	10 days	Fri 10/25/24	Thu 11/7/24
37	WILCO Review (60% PS&E & Drainage)	10 days	Wed 12/4/24	Tue 12/17/24
38	WILCO review (Preliminary Drainage Report)	10 days	Wed 11/27/24	Tue 12/10/24
39	**100% Submittal (PS&E)**	**60 days**	**Fri 11/8/24**	**Thu 1/30/25**
40	Review and Respond to Comments (60% PS&E, Envn and Drainage)	3 days	Wed 12/18/24	Fri 12/20/24
41	Develop 100% PS&E (Plans and Estimate)	10 days	Mon 12/23/24	Fri 1/3/25
42	Develop Supporting Documents (GN and CONST Schedule)	10 days	Mon 12/23/24	Fri 1/3/25
43	Final Environmental/Drainage Report/Memo (include Agency approval)	60 days	Fri 11/8/24	Thu 1/30/25
44	Property Owner Meetings	1 day	Fri 11/29/24	Fri 11/29/24
45	100% PS&E QAQC	5 days	Mon 1/6/25	Fri 1/10/25
46	100% PS&E Submittal	0 days	Fri 1/10/25	Fri 1/10/25
47	WILCO Review	10 days	Mon 1/13/25	Fri 1/24/25
48	**Final Submittal (PS&E)**	**17 days**	**Mon 1/27/25**	**Tue 2/18/25**
49	Review and Respond to Comments	2 days	Mon 1/27/25	Tue 1/28/25
50	Finalize PS&E (Plans and Estimate)	10 days	Wed 1/29/25	Tue 2/11/25
51	Finalize Supporting Documents (GN and CONST Schedule)	5 days	Wed 2/5/25	Tue 2/11/25
52	Final PS&E QAQC	5 days	Wed 2/12/25	Tue 2/18/25
53	Final PS&E Submittal	0 days	Tue 2/18/25	Tue 2/18/25
54	**Bid Phase Services**	**73 days**	**Wed 2/19/25**	**Fri 5/30/25**
55	Develop Project Manual & Approval to Advertis	10 days	Wed 2/19/25	Tue 3/4/25
56	Advertisment	20 days	Wed 3/5/25	Tue 4/1/25
57	Bid Opening	15 days	Wed 4/2/25	Tue 4/22/25
58	Bid Recommendation	28 days	Wed 4/23/25	Fri 5/30/25



Project: North Barker Street
Williamson County
Date: Wed 9/11/24

ATTACHMENT D

FEE SCHEDULE

FOR

JOHNSON, MIRMIRAN & THOMPSON, INC.

North Barker Street

For services described in the Scope of Services, we request the compensation as detailed below. Cost breakdowns for engineering services and explanation of expenses are shown on the following pages.

TOTAL FEE

$ 183,304.00

FEE SCHEDULE

Task	JMT	SCSI	SCHEIBE	HEJL	TOTAL
Task 1 - Project Management	$ 22,200.00	$ 3,540.00	$ 16,220.00	$ 1,035.00	$ 42,995.00
Task 2 - Route and Design Studies	$ 5,370.00	$ -	$ -	$ 700.00	$ 6,070.00
Task 3 - Public Involvement	$ 4,055.00	$ -	$ -	$ 610.00	$ 4,665.00
Task 4 - Surveying	$ 1,540.00	$ -	$ 9,580.00	$ -	$ 11,120.00
Task 5 - Drainage Study	$ -	$ -	$ 33,710.00	$ -	$ 33,710.00
Task 6 - Environmental Services	$ 2,400.00	$ 26,930.00	$ -	$ -	$ 29,330.00
Task 7 - Plan Preparation (60%,100% & Final)	$ 46,335.00	$ -	$ -	$ -	$ 46,335.00
Task 8 - Bidding Phase Services	$ 7,585.00	$ -	$ -	$ -	$ 7,585.00
ODEs	$ 592.00	$ 902.00	$ -	$ -	$ 1,494.00
TOTALS	$ 90,077.00	$ 31,372.00	$ 59,510.00	$ 2,345.00	$ 183,304.00

Summary of Manhours by Classification
Johnson, Mirmiran & Thompson, Inc. (JMT)

Description of Work or Task	Principal Engineer $340.00/Hr	Project Manager $320.00/Hr	Sr. QC Reviewer $260.00/Hr	Project Engineer $200.00/Hr	Design Engineer $160.00/Hr	EIT $125.00/Hr	CADD Operator $120.00/Hr	Jr. CADD Operator $85.00/Hr	Senior Env. Planner $240.00/Hr	Admin/Clerical $100.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Task 1 - Project Management												
B. Monthly Progress Reports, Invoices and Billings(6 months)		6								6	12	$2,520.00
C. Quality Assurance and Quality Control QAQC (60/100/Final PS&Es)	2		24	9	9						44	$10,160.00
D. Project Coordination & Administration		2		2	6					4	14	$2,400.00
E. Progress/Coordination Meetings (up to 6)	8	4		4						4	20	$5,200.00
F. Project Schedule		6									6	$1,920.00
Task 1 Hours:	**10**	**18**	**24**	**15**	**15**					**14**	**96**	
Task 1 Subtotal:	**$3,400.00**	**$5,760.00**	**$6,240.00**	**$3,000.00**	**$2,400.00**					**$1,400.00**		**$22,200.00**
Task 2 - Route and Design Studies												
A. Data Collection		2		2	1	2					7	$1,450.00
B. Stakeholder Coordination	6	4								6	16	$3,920.00
											0	$0.00
Task 2 Hours:	**6**	**6**		**2**	**1**	**2**	**0**	**0**		**6**	**23**	
Task 2 Subtotal:	**$2,040.00**	**$1,920.00**		**$400.00**	**$160.00**	**$250.00**	**$0.00**	**$0.00**		**$600.00**		**$5,370.00**
Task 3 - Public Involvement											`	
A. General Public Outreach and Engagement	1	2				2				2	7	$1,430.00
Property Owner Meeting	2	2									4	$1,320.00
B. Public Meeting/Open House	1	2				1				2	6	$1,305.00
Task 3 Hours:	**4**	**6**		**0**	**0**	**3**				**4**	**17**	
Task 3 Subtotal:	**$1,360.00**	**$1,920.00**		**$0.00**	**$0.00**	**$375.00**				**$400.00**		**$4,055.00**
Task 4 - Surveying												
A Right of Entry Letter		2		2		4					8	$1,540.00
B Field Surveying											0	$0.00
Task 4 Hours:		**2**		**2**	**0**	**4**				**0**	**8**	
Task 4 Subtotal:		**$640.00**		**$400.00**	**$0.00**	**$500.00**				**$0.00**		**$1,540.00**
Task 6 - Environmental Services												
B. Data Collection & Field Reconnaissance											0	$0.00
Project Contact Database									2		2	$480.00
C. Hazardous Materials Initial site assessment									2		2	$480.00
D. Section 404 Clean Water Act Compliance									2		2	$480.00
E Historical Site Compliance									2		2	$480.00
F. Texas Antiquities Code (TAC) Compliance									2		2	$480.00
Task 6 hours									**10**		**10**	$2,400.00
Task 6 Subtotal:									**$2,400.00**			**$2,400.00**
Task 7 - Plan Preparation (60%,100% & Final)												
B. Roadway Plans											0	$0.00
Geometric Design	1	2		2	2		8	12			27	$3,680.00
Title Sheet / Project Layouts		1		1	1		6	7			16	$1,995.00
Typical Sections		1		2			6	6			15	$1,950.00
Plan & Profile Sheets		4		6	10		12	36			68	$8,580.00
Alignment Data Sheets / Misc. Roadway Details		1		1	4		8	10			24	$2,970.00
Removal Layouts											0	$0.00
Generate Cross Sections											0	$0.00
Quantities/Summary sheet	1	2		2	2	8		15			30	$3,975.00
Standards, Specification & Estimate	1	2		2	2	8		11			26	$3,635.00
C. Drainage												
Culvert/Channel		4		4	8	8	8	24			56	$7,360.00
D. Signing, Markings												
Pavement Markings		2		4	4		10	10			30	$4,130.00
E. Traffic Control												
Traffic control (Narrative only)		2			8		2	8			20	$2,840.00
Small Signs		1			4		2	8			15	$1,880.00
Calculate earthwork volumes		1		2	8	8		4			23	$3,340.00
Task 7 Hours:	**3**	**23**		**26**	**53**	**32**	**62**	**151**			**350**	
Task 7 Subtotal:	**$1,020.00**	**$7,360.00**		**$5,200.00**	**$8,480.00**	**$4,000.00**	**$7,440.00**	**$12,835.00**				**$46,335.00**
Task 8 - Bidding Phase Services												
A. Project Manual Development	2	4								4	10	$2,360.00
B. Attend Pre-Bid	1				1			1			3	$585.00
C. Respond to bidder questions	1	2		4	4						11	$2,420.00
D. Bid tabulations and award recommendation	1	1		2	2	4		4			14	$2,220.00
Task 10 Hours:	**5**	**7**		**6**	**7**	**4**		**5**		**4**	**38**	
Task 10 Subtotal:	**$1,700.00**	**$2,240.00**		**$1,200.00**	**$1,120.00**	**$500.00**		**$425.00**		**$400.00**		**$7,585.00**
Total Hours all Tasks	28	62	24	51	76	45	62	156	10	28	542	
JMT SUMMARY	**$9,520.00**	**$19,840.00**	**$6,240.00**	**$10,200.00**	**$12,160.00**	**$5,625.00**	**$7,440.00**	**$13,260.00**	**$2,400.00**	**$2,800.00**		**$89,485.00**

Summary of Direct Expenses
Johnson, Mirmiran & Thompson, Inc. (JMT)

Item Description	Unit	Quantity	Unit Cost	Total Cost
Direct Expenses				
I. Mileage	MILE	100	$0.670	**$67.00**
II. Photocopies B/W (11" X 17")	EA	300	$0.25	**$75.00**
III. Photocopies Color (8.5" X 11")	EA	25	$1.00	**$25.00**
IV. Photocopies Color (11" X 17")	EA	25	$2.00	**$50.00**
V. Large Format Plotting	SF	150	$2.50	**$375.00**
			Total Direct Expenses	**$592.00**

Summary of Manhours by Classification
Stantec Consulting Services, Inc. (SCSI)

Description of Work or Task	ENV Task Sr. Project Manager $190.00/Hr	Project Manager $150.00/Hr	Senior Env. Scientist $150.00/Hr	Env. Scientist $125.00/Hr	Senior Historian $180.00/Hr	Historian $140.00/Hr	Senior Archeologist $180.00/Hr	Archeologist $125.00/Hr	Field Tech $100.00/Hr	Senior GIS Analyst $150.00/Hr	GIS Analyst $125.00/Hr	Admin/Clerical $100.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Task 6 - Environmental Services														
A. County Due Diligence Report	2	2	4	16					16	2	8		50	$ 6,180.00
B. Data Collection & Field Reconnaissance		2		8						2	8		20	$ 2,600.00
C. Hazardous Materials Initial site assessment	1	2	4	36							8		51	$ 6,590.00
D. Section 404 Clean Water Act Compliance	1	2	8	8					24	2	8		53	$ 6,390.00
E. Historical Site Compliance	1	1			4	4				4			14	$ 2,220.00
F. Texas Antiquities Code (TAC) Compliance	1	1					2	12			6		22	$ 2,950.00
Task 6 Hours:	**4**	**8**	**12**	**52**	**4**	**4**	**2**	**12**	**24**	**8**	**30**		**160**	
Task 6 Subtotal:	**$760.00**	**$1,200.00**	**$1,800.00**	**$6,500.00**	**$720.00**	**$560.00**	**$360.00**	**$1,500.00**	**$2,400.00**	**$1,200.00**	**$3,750.00**	**$0.00**		**$26,930.00**
Task 1 - Project Management														
D. Project Coordination & Administration		12											12	$ 1,800.00
E. Progress/Coordination Meetings (up to 6)	6											6	12	$ 1,740.00
Task 1 Hours:	**6**	**0**										**6**	**12**	
Task 1 Subtotal:	**$1,140.00**	**$0.00**										**$600.00**		**$3,540.00**
SCSI SUMMARY	**$1,900.00**	**$1,200.00**	**$1,800.00**	**$6,500.00**	**$720.00**	**$560.00**	**$360.00**	**$1,500.00**	**$2,400.00**	**$1,200.00**	**$3,750.00**	**$600.00**	**172**	**$30,470.00**

Summary of Direct Expenses
Stantec Consulting Services, Inc. (SCSI)

Item Description	Unit	Quantity	Unit Cost	Total Cost
Direct Expenses				
I. Mileage	MILE	400	$0.670	**$268.00**
II. HazMat Data	EA	1	$450.00	**$450.00**
III. Per Diem	Day	4	$46.00	**$184.00**
			Total Direct Expenses	**$902.00**

Summary of Manhours by Classification
Scheibe Consulting LLC. (SCHEIBE)

Description of Work or Task	Principal Engineer $300.00/Hr	Senior Engineer II $240.00/Hr	EIT III $145.00/Hr	CADD Tech II $100.00/Hr	Admin II $95.00/Hr	GPS Field Crew (2-Man) $135.00/Hr	RPLS II $180.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Task 1 - Project Management and Administration									
A. Monthly Progress Reports, Invoices and Billings (6 months)	3				12			15	$2,040.00
C. Quality Assurance and Quality Control (QAQC) plan (60/100/Final PS&Es)		16	16					32	$6,160.00
D. Project Coordination & Administration (6 months)	3		12					15	$2,640.00
E. Progress/Coordination meetings (up to 1)	2		4					6	$1,180.00
F. Project schedule	14							14	$4,200.00
Task 1 Hours:	**22**	**16**	**32**		**12**			**82**	
Task 1 Subtotal:	**$6,600.00**	**$3,840.00**	**$4,640.00**		**$1,140.00**				**$16,220.00**
Task 4 - Surveying									
B. Field Surveying (Channel cross-section development)	1	2		16		32	16	67	$9,580.00
								0	$0.00
Task 4 Hours:	**1**			**16**				**67**	
Task 4 Subtotal:	**$300.00**	**$480.00**		**$1,600.00**		**$4,320.00**	**$2,880.00**		**$9,580.00**
Task 5 - Drainage Study									
A. Hydrology/Hydraulic Modeling (1 major channel crossing, 1 cross drainage structure)	2	24	120					146	$23,760.00
B. Impact Analysis & Drainage Report	1	10	50					61	$9,950.00
Task 5 Hours:	**3**	**34**	**170**					**207**	
Task 5 Subtotal:	**$900.00**	**$8,160.00**	**$24,650.00**						**$33,710.00**
Task 7 - Plan Preparation (60%,100% & Final)									
C. Drainage									
Culvert and Drainage Channel Design								0	$0.00
Task 7 Hours:	**0**	**0**		**0**				**0**	
Task 7 Subtotal:	**$0.00**	**$0.00**		**$0.00**					**$0.00**
SCHEIBE SUMMARY	**$7,800.00**	**$12,480.00**	**$29,290.00**	**$1,600.00**	**$1,140.00**	**$4,320.00**	**$2,880.00**		**$59,510.00**

Summary of Manhours by Classification
HEJL, LEE & ASSOCIATES, INC. (HLA)

Description of Work or Task		Principal Engineer $220.00/Hr	Graduate Engineer $130.00/Hr	Clerical $75.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Task 1 - Project Management						
B.	Monthly Progress Reports, Invoices and Billings(6 months)			3	3	$225.00
C.	Quality Assurance and Quality Control QAQC (60/100/Final PS&Es)				0	$0.00
D.	Project Coordination & Administration	3			3	$660.00
E.	Progress/Coordination Meetings			2	2	$150.00
F.	Project Schedule				0	$0.00
	Task 1 Hours:	**3**	**0**	**5**	**8**	
	Task 1 Subtotal:	**$660.00**	**$0.00**	**$375.00**		**$1,035.00**
Task 2 - Route and Design Studies						
A.	Data Collection		2		2	$260.00
B.	Stakeholder Coordination	2			2	$440.00
					0	$0.00
	Task 2 Hours:	**2**	**2**		**4**	
	Task 2 Subtotal:	**$440.00**	**$260.00**			**$700.00**
Task 3 - Public Involvement					`	
A.	General Public Outreach and engagement				0	$0.00
	Property Owner Meeting	1	3		4	$610.00
B.	Public Meeting/Open House				0	$0.00
	Task 3 Hours:	**1**	**3**		**4**	
	Task 3 Subtotal:	**$220.00**	**$390.00**			**$610.00**
	Total Hours all Tasks	6	5	5	16	
	HEJL SUMMARY	**$1,320.00**	**$650.00**	**$375.00**		**$2,345.00**