Terry Crow
Commissioner Precinct 1

Skeet Phillips
Commissioner Precinct 2

Kelly Lane
Commissioner Precinct 3

Tommy Moore
Commissioner Precinct 4

Jakie Allen
County Judge

NOTICE OF REGULAR MEETING

Notice is hereby given that a regular meeting of the Kaufman County Commissioners' Court will be held on **Tuesday, June 16, 2026, at 9:00 a.m., in the Commissioners' Court Meeting Room located in the Courthouse Annex 100 North Washington Street, Kaufman, Texas,** at which time the commissioners' court will consider the following items for discussion, and possible action, to wit:

INVOCATION:
PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG:
PLEDGE OF ALLEGIANCE TO THE TEXAS FLAG:
REMARKS FROM VISITORS; (Any member of the public that wishes to speak on an item that is on this agenda will need to sign in, complete a Public Participation Form, and present to County Clerk prior to court. Speakers will be restricted to a three-minute presentation.)

1. **ROUTINE CORRESPONDENCE**
2. **CONSENT AGENDA**
   - A. Discuss/Consider/Accept the Commissioners Court regular meeting minutes for June 9, 2026.
   - B. Discuss/Consider Kaufman County Historical Commission accepting the 2025 Distinguished Service Award from the Texas Historical Commission.
   - C. Discuss/Consider/Accept Development Services Quarterly report for January through March 2026.
   - D. Discuss/Consider Keep Kaufman County Beautiful being recognized as a Silver Star Affiliate by Keep Texas Beautiful.
   - E. Discuss/Consider/Approve entering into a contract with Govably for Digital Bulletin Board Software for County Clerk Office to be paid for with County Clerk Records Archive Funds.
3. **Steve Howie**: Discuss/Consider/Approve the appointment of Roland Napoles to fill the unexpired term of Stephen Womack beginning on 6/16/2026 and ending on December 31, 2026.
4. **Pam Corder**: Discuss/Consider/Approve appointing Sherry Duff and Kasey Hovis to the Kaufman County Pet Adoption Center Advisory Committee and the continuation of service of current members Dr. Joe Urso and Veronica Slayton.
5. **Owen Cantrell**: Discuss/Consider/Approve the Application for Federal Assistance and the Application for Structural repairs for Kaufman-Van Zandt SWCD 505 regarding the rehabilitation of Cedar Creek 57 TX03338 in the amount of $10,000,000.00.
6. **Brenda Callaway, P.E.**: Discuss/Consider/Approve the appointment of Brenda Callaway, P.E. to the Surface Transportation Technical Committee to represent Kaufman County.
7. **Brenda Callaway, P.E.**: Discuss/Consider/Approve authorization of the ICA between Kaufman County and Crandall EDC for the FM 741-US 175 project and receipt of funding from Crandall EDC for the project in the amount of $315,000.00.
8. **Brenda Callaway, P.E.**: Discuss/Consider/Approve professional services agreement between Kaufman County and HDR for the FM 741 at US 175 project in the amount of $1,341,918.00.

9. **Lorena Diaz**: Discuss/Consider/Approve MB Concrete to do work at 15913 US 175 W. Kemp, TX 75143 in Precinct 4 utilizing City of Forney RFP 2026-002.
10. **Auditor**: Discuss/Consider line item and budget transfers/corrections.
11. **Auditor**: Discuss/Consider claims for payment and/or Financial Information as provided by the County Auditor.
12. **Adjourn Meeting**

If during the meeting, a discussion of any item on the agenda should be held in a closed meeting, the Commissioners' Court will conduct a closed meeting in accordance with the Texas Open Meetings Act and the Government Code, Chapter 551, Subchapter D and E; as noted below

Attorney Consultation	*Gov't Code §551.071*
Real Property	*Gov't Code §551.072*
Contract being negotiated	*Gov't Code §551.0725*
Prospective gifts or donations	*Gov't Code §551.073*
Personnel Matters	*Gov't Code §551.074*
County Advisory Body deliberations	*Gov't Code §551.0745*
Security Devices or Security Audits and Infrastructure	*Gov't Code §551.0761 and 551.089*
Economic Development negotiations	*Gov't Code §551.087*

Before any closed meeting is convened, the presiding officer will publicly identify the section or sections of the Act authorizing the closed meeting. Should any final action, final decision, or final vote be required in the opinion of the Commissioners' Court with regards to any matter considered in such closed or executive meeting or session, then the final action, final decision, or final vote shall be either:

(a) in the open meeting covered by the notice upon the reconvening of the public meetings; or
(b) at a subsequent open public meeting of the Commissioners' Court upon notice thereof; as the Commissioners' Court shall determine.

COUNTY COURT · KAUFMAN COUNTY, TEXAS

Signed this the 10th day of June, 2026.

Jakie Allen

Jakie Allen, Kaufman County Judge

I, the undersigned, County Clerk of the Kaufman County Commissioners' Court do hereby certify that the above notice of a meeting of the Kaufman County Commissioners' Court is a true and correct copy of the said notice, that I received said Notice, and it was posted on the bulletin board at the courthouse door of Kaufman County, Texas at a place readily accessible to the general public at all times on the 10th day of June, 2026, and said notice remained so posted continuously for at least 72 hours preceding the scheduled time of the said meeting.

Laura Hughes, County Clerk

By: Laura Hughes

Deputy

ANYONE WHO HAS IMPAIRMENTS REQUESTING AID AT THE COMMISSIONERS' COURT OR ANY PUBLIC MEETING MUST CALL THE COUNTY CLERK AT LEAST 72 HOURS BEFORE THE MEETING.

COMMISSIONERS COURT
REGULAR MEETING
JUNE 9, 2026

BE IT REMEMBERED that on this day, the Commissioners Court of Kaufman County, Texas met in a Regular Meeting in the Commissioners Court Meeting Room, Kaufman Texas with the following members present: **Jakie Allen**, County Judge; **Terry Crow** Commissioner Precinct 1; **Skeet Phillips**, Commissioner Precinct 2; **Kelly Lane**, Commissioner Precinct 3; **Tommy Moore**, Commissioner Precinct 4; **Laura Hughes**, County Clerk.

INVOCATION;
PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG;
PLEDGE OF ALLEGIANCE TO THE TEXAS FLAG;
REMARKS FROM VISITORS;

CONSENT AGENDA

2. There came on to be a motion to accept the Consent Agenda.

A. Accept Commissioners Court Meeting Minutes for June 2, 2026.

B. Accept Tax Assessor-Collector's Monthly Property Tax Collections Report for April 2026.

C. Accept Tax Assessor-Collector's Monthly Auto Collections Report for April 2026.

D. Approve changing the Children's Center part-time Administrative Assistant to full-time, effective June 1, 2026, and establishing a new Case Manager position for the remainder of FY 2026.

Motion was made by Commissioner Skeet Phillip and seconded by Commissioner Terry Crow.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO ACCEPT DONATION

3. There came on to be a motion to accept a Donation to the Kaufman County Historical Commission of $1,000.00 from Brinson Chevrolet.

Motion was made by Commissioner Kelly Lane and seconded by Commissioner Tommy Moore.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE AGREEMENT

4. There came on to be a motion to approve a Service Agreement with UT Southwestern for their Mobile Mammogram trailer.

Motion was made by Commissioner Terry Crow and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE RE-PLAT

5. There came on to be a motion to approve the Re-Plat of Lot 27 of Farm View Estates, located on Crow Lane in Precinct 1.

Motion was made by Commissioner Terry Crow and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE RE-PLAT

6. There came on to be a motion to approve the Preliminary Re-Plat of Ola Subdivision, located on CR 106 in Precinct 1.

Motion was made by Commissioner Terry Crow and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is or ordered.

MOTION TO APPROVE PLAT

7. There came on to be a motion to approve the Preliminary Plat of Cory Morehead Subdivision #37, located on CR 4017 and FM 90 in Precinct 4.

Motion was made by Commissioner Tommy Moore and seconded by Commissioner Kelly Lane.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE FIBER INSTALLATION

8. There came on to be a motion to approve fiber installation from Spectrum on County Road 136, County Road 137, Bradeen Drive, Crow Lane, and Anglin Way in Precinct 1.

Motion was made by Commissioner Terry Crow and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE EXITING REGULAR MEETING AND ENTER INTO EXECUTIVE MEETING

9. There came on to be a motion to approve exiting Regular Meeting and enter into Executive Session, pursuant to Texas Government Code Section 551.072: Discussion of Real Estate negotiations for the potential purchase of real property.

Motion was made by Commissioner Kelly Lane and seconded by Commissioner Terry Crow.

Motion was put to a vote. Motion carried and is so ordered.

EXECUTIVE SESSION

Executive Session was held. Judge has certified agenda.

MOTION TO APPROVE EXITING EXECUTIVE SESSION AND ENTER INTO REGULAR MEETING

10. There came on to be a motion to approve exiting Executive Session and enter into Regular Meeting.

Motion was made by Commissioner Kelly Lane and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE LEASE TERMINATION

11. There came on to be a motion to approve the Lease Termination negotiation for the property on Houston Street, effective August 2026.

Motion was made by Commissioner Tommy Moore and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE LINE-ITEM AND BUDGET TRANSFERS/CORRECTIONS

12. There came on to be a motion to approve Line-Item and Budget Transfers/Corrections.

Motion was made by Commissioner Kelly Lane and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO APPROVE CLAIMS FOR PAYMENT AND/OR FINANCIAL INFORMATION

13. There came on to be a motion to approve Claims for Payment and/or Financial Information.

Motion was made by Commissioner Terry Crow and seconded by Commissioner Skeet Phillip.

Motion was put to a vote. Motion carried and is so ordered.

MOTION TO ADJOURN

14. There came on to be a motion to adjourn.

Motion was made by Commissioner Skeet Phillip and seconded by Commissioner Tommy Moore.

Motion was put to a vote. Motion carried and is so ordered.

I, Laura Hughes, County Clerk of Kaufman County, Texas, do hereby certify that the above Commissioner Court Minutes are true and correct record of the proceedings from the Commissioners Court Meeting.

ATTEST:

Laura A. Hughes

Laura Hughes, County Clerk

FOR IMMEDIATE RELEASE

Kaufman County Historical Commission Receives 2025 Distinguished Service Award from the Texas Historical Commission

Kaufman County, TX — The Kaufman County Historical Commission is proud to announce it has been recognized by the Texas Historical Commission as a recipient of the 2025 Distinguished Service Award (DSA).

The Distinguished Service Award recognizes County Historical Commissions across Texas that demonstrate exceptional commitment to preserving, promoting, and sharing local history through outstanding programs, projects, education, and community engagement. Recipients are selected through a statewide evaluation of annual reports submitted to the Texas Historical Commission.

This recognition highlights the dedication and hard work of the Kaufman County Historical Commission members, volunteers, community partners, and supporters who continue working to preserve the rich history and heritage of Kaufman County for future generations.

"The preservation of local history is vital to understanding where we came from and strengthening the connection to our communities," said Jakie Allen. "We are honored to receive this recognition and grateful for the volunteers and community members who help keep Kaufman County history alive."

Throughout the year, the Kaufman County Historical Commission supports historical preservation efforts, educational outreach, historical markers, community events, and partnerships that encourage residents and visitors to explore the county's unique heritage.

The Kaufman County Historical Commission extends its appreciation to the Texas Historical Commission for this honor and congratulates all County Historical Commissions across Texas receiving the 2025 Distinguished Service Award.

For more information about the Kaufman County Historical Commission or local historical programs and preservation efforts, please contact Kaufman County Historical Commission at 469-376-4140 or by email at pam.corder@kaufmancounty.net.

KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net and Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Tuesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

COURT DATE REQUESTED:	SUBMITTED BY: Monique Hunter DEPARTMENT: Development Services	PERSON PRESENTING:
6/16/26		N/A

ITEM REQUESTED IS FOR:

- (●) Consent Agenda
- ( ) Action/Consideration
- ( ) Discussion/Report
- ( ) Executive Session
- ( ) Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Development Services Quarterly report for January through March 2026.

DEVELOPMENT SERVICES

2nd Quarter 2025-2026

(Jan Feb March 2026)

DEVELOPMENT	Production	2nd Qtr. Financials	YTD Financials
• Predevelopment Questionnaire*	*Not accepted/processed due to security incident		
• Property Land Reports*	*Not accepted/processed due to security incident		
• Development Meetings	63	-	-
• Subdivision Violations	00	-	-
• Working Subdivisions/Fees Collected	25	$36,084.00	$66,778.00
• Subdivisions (App'd in Commissioners Court)	06	-	-
• Culvert Permits PCT 1,2,3,4	27	$1,650.00	$5,175.00

911/GIS	Production	2nd Qtr. Financials	YTD Financials
• 911 Address Points created	1261	$43,340.00	$73,780.00
• 911 Communication Towers	00	-	-
• 911 Flood Predetermination	15	-	-
• 911 ESRI Tickets	00	-	-
• 911 Map Created/Printed			
○ Public Requests	00		
○ Internal County Requests	00		

ENVIRONMENTAL	Production	2nd Qtr. Financials	YTD Financials
• Illegal Dumping Cases	07	-	-
• Public Nuisance Cases	23	-	-
• Salvage Site Checks	03	$225.00	$300.00
• Contractor Cases Files	00	-	-
• Subdivision Site Checks	01	-	-
• Engineer/SWMP Assist	02	-	-
• Culvert Violations	01	-	-
• JP 1 Cases	02	-	-
• Violation Follow Ups	280	-	-
• Commercial Site Checks	10	-	-

DEVELOPMENT SERVICES

2nd Quarter 2025-2026

(Jan Feb March 2026)

OSSF	Production	2nd Qtr. Financials	YTD Financials
• Residential Permits	118	$42,240.00	$86,160.00
• Commercial Permits	14	$6,360.00	$12,460.00
• Modification Permits	06	$1,200.00	$3,600.00
• Re-Inspections	12	$2,400.00	$3,200.00
• Authorizations to Construct	126	-	-
• Finals (System Approvals)	119	-	-
• Inspections Processed:		-	-
o Manual Entry	3530	-	-
o Electronic (Import) Entry	4751	-	-
• Maintenance Contract Renewals	2509	$67,975.00	$126,525.00
• Violations Opened	2107	-	-
• Violations Closed	2175	-	-
• JP 4 Cases	13	-	-
• UTL Nuisance (Contracts/Malfunctions)	352	-	-

STORMWATER	Production	2nd Qtr. Financials	YTD Financials
• Small Site SWPPP Permit	00	-	-
• Large Site SWPPP Permit	04	-	-
• SWMP Fees Collected	07	$3,100.00	$5,300.00
• Erosion Control Plan	01	-	-
• Prep/Reach out/Events	00	-	-
• Meetings	40	-	-
• Site Visits	05	-	-

DEVELOPMENT SERVICES

2nd Quarter 2025-2026

(Jan Feb March 2026)

ENGINEERING	Production	2nd Qtr. Financials	YTD Financials
• Floodplain Violations	03	-	-
• Drainage Reviews (County)Floodplain Permits	06	$8,822.00	$15,472.00
• Residential Bldg Apps	01	$25.00	$100.00
• Fiber (& Misc Use of Cty Prop Permits)	02	-	-
• Site Visits			
o Fiber Install Inspections	02	-	-
o Public/Commissioner Request	29	-	-
• Floodplain Letters Plat Approval	06	-	-
• Engineer Attended Meetings	53	-	-
• Special Projects			
o Flood Infrastructure Fund Grant	00	-	-
o Thoroughfare Plan	5 hr.	-	-

2nd QUARTER FINANCIALS	**$215,071.00**
YTD FINANCIALS	**$398,860.00**
PREVIOUS YTD	**$353,446.00**

FOR IMMEDIATE RELEASE

Keep Kaufman County Beautiful Recognized as Silver Star Affiliate by Keep Texas Beautiful
Honored for Strengthening Community Programs and Environmental Stewardship

Kaufman County, Texas – Keep Texas Beautiful (KTB), a statewide nonprofit organization dedicated to inspiring and empowering Texans to improve their communities, has recognized **Keep Kaufman County Beautiful (KKCB)** as a **Silver Star Affiliate**, a distinction that recognizes strong community engagement and expanding local impact.

Silver Star status is awarded to affiliates that strengthen their programs through additional initiatives, increased training opportunities, measurable results, and meaningful community involvement.

"Our affiliates bring our mission to life every day. We are proud to celebrate those continuing to build and expand their impact," said Sara Walters, Executive Director of Keep Texas Beautiful. "Silver Star Affiliates are gaining momentum by engaging volunteers, strengthening programs, and inspiring a shared commitment to a cleaner, greener future."

Since its reorganization, Keep Kaufman County Beautiful has worked diligently to reconnect residents with opportunities to improve and beautify their communities. Through partnerships with Kaufman County, the Kaufman County Resource Connection, HOPE Farms, local schools, civic groups, and community volunteers, KKCB has expanded environmental education and community engagement efforts throughout the county.

Over the past year, KKCB has supported educational outreach at the Kaufman County Farmers Market, promoted recycling and litter prevention awareness, participated in community events, encouraged volunteerism, and worked to increase public awareness about conservation, beautification, and environmental stewardship partnerships. KKCB is also a proud sponsor of the semi-annual Kaufman Homestead Day event, which celebrates agriculture, homesteading, local artisans, and community heritage. In addition, the organization supports the HOPE Farms community garden helping promote environmental education, sustainable gardening practices, and access to fresh, locally grown produce.

"We are honored to receive this recognition from Keep Texas Beautiful," said Pam Corder, County Liaison of Keep Kaufman County Beautiful. "This award reflects the dedication of our volunteers, partners, and community members who believe that even small actions can make a lasting difference. Together, we are building a cleaner, greener, and more beautiful Kaufman County for future generations."

"Kaufman County is proud of the work being accomplished through Keep Kaufman County Beautiful," said County Judge Jakie Allen. "The organization has successfully brought together volunteers, community partners, businesses, and local leaders to promote environmental stewardship and community pride. This Silver Star recognition is a reflection of their hard work and commitment to making Kaufman County a better place to live, work, and raise a family."

Silver Star recognition highlights affiliates that are going beyond foundational requirements to expand their impact. These organizations demonstrate strong community engagement through additional programming, continued training, and a commitment to tracking and reporting results. Their work reflects meaningful progress and a growing investment in long-term community improvement.

Keep Texas Beautiful recognized Silver Star communities during the 2026 Virtual Keep Texas Beautiful Conference.

About Keep Kaufman County Beautiful

Keep Kaufman County Beautiful is a volunteer-led community organization dedicated to enhancing the beauty, cleanliness, and environmental health of Kaufman County. Through education, beautification projects, community partnerships, litter prevention initiatives, support of community gardens, and volunteer engagement, the organization works to promote environmental stewardship and civic pride throughout the county.

Residents are encouraged to follow Keep Kaufman County Beautiful on Facebook to learn about upcoming volunteer opportunities, community events, educational programs, beautification projects, and environmental initiatives.

About Keep Texas Beautiful

Keep Texas Beautiful (KTB) is a nonprofit organization dedicated to making Texas the best place to live, work, and play. KTB inspires and empowers Texans to keep their communities clean and beautiful through community improvement projects, recycling programs, litter prevention, cleanups, and youth engagement initiatives. Founded in 1967, KTB's statewide network reaches more than 17 million Texans annually through affiliates, volunteers, and community partners.

For more information, visit www.ktb.org.

For More Information About Keep Kaufman County Beautiful, Volunteer Opportunities, or Upcoming Events, Contact:

Pam Corder
Chair, Keep Kaufman County Beautiful
469-376-4140
pam.corder@kaufmancounty.net
Follow us on Facebook: Keep Kaufman County Beautiful

KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net** and **Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Tuesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

COURT DATE REQUESTED:	SUBMITTED BY: Steve Howie DEPARTMENT: Emergency Management	PERSON PRESENTING:
6/16/26		Tommy Moore

ITEM REQUESTED IS FOR:

- ○ Consent Agenda
- ◉ Action/Consideration
- ○ Discussion/Report
- ○ Executive Session
- ○ Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Discuss and Consider the appointment of **Roland Napoles** to fill the unexpired term of **Stephen Womack** beginning on 6/16/2026 and ending on December 31, 2026.

KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net** and **Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Tuesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

COURT DATE REQUESTED:	SUBMITTED BY: Pam Corder DEPARTMENT: Project Manager	PERSON PRESENTING: Pam Corder
6/16/26		

ITEM REQUESTED IS FOR:

- ○ Consent Agenda
- ◉ Action/Consideration
- ○ Discussion/Report
- ○ Executive Session
- ○ Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Discuss, consider, and take appropriate action regarding the Kaufman County Pet Adoption Center Advisory Committee, including the appointment of Sherry Duff and Kasey Hovis to serve as board members and the continuation of service for current members Dr. Joe Urso and Veronica Slayton, in support of the Committee's ongoing efforts to advise and assist the Kaufman County Pet Adoption Center.

OMB Number: 4040-0004
Expiration Date: 12/31/2022

Application for Federal Assistance SF-424

* 1. Type of Submission:
- [ ] Preapplication
- [x] Application
- [ ] Changed/Corrected Application

* 2. Type of Application:
- [x] New
- [ ] Continuation
- [ ] Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received: Completed by Grants.gov upon submission.

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: Kaufman-Van Zandt SWCD 505

* b. Employer/Taxpayer Identification Number (EIN/TIN): 75-1586747

* c. Organizational DUNS:

d. Address:

* Street1: 8620 FM 741
Street2:
* City: Forney
County/Parish:
* State: Texas
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 75147

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:
* First Name: Owen
Middle Name:
* Last Name: Cantrell
Suffix:

Title: District Technician

Organizational Affiliation: Kaufman-Van Zandt SWCD 505

* Telephone Number: (214) 356-5626
Fax Number:

* Email: bigo@inbox.com

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

Natural Resources Conservation Service

11. Catalog of Federal Domestic Assistance Number:

10.916

CFDA Title:

Watershed Rehabilitation Program

* 12. Funding Opportunity Number:

* Title:

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Kaufman County, Texas | Add Attachment | Delete Attachment | View Attachment

* 15. Descriptive Title of Applicant's Project:

Rehabilitation of Cedar Creek 57 TX03338

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant: 5th
* b. Program/Project: 5th

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date:
* b. End Date:

18. Estimated Funding ($):

* a. Federal	6,500,000
* b. Applicant	
* c. State	3,500,000
* d. Local	
* e. Other	
* f. Program Income	
* g. TOTAL	10,000,000

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☒ a. This application was made available to the State under the Executive Order 12372 Process for review on .

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☐ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment | Delete Attachment | View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:	
* First Name:	Roy
Middle Name:	
* Last Name:	Deen
Suffix:	
* Title:	Chairman of Kaufman-Van Zandt SWCD 505
* Telephone Number:	(214) 870-8427
Fax Number:	
* Email:	doon.21@icloud.com
* Signature of Authorized Representative:	Completed by Grants.gov upon submission.
* Date Signed:	Completed by Grants.gov upon submission.

Kaufman-Van Zandt SWCD 505
(Name of Sponsor)

By Roy Ware

Title Chairman

8620 FM 741 Forney, TX 75126
(Address) (Zip Code)

Date 6-3-2026

The signing of this application was authorized by resolution of the governing body of the

Adopted at a meeting held on 6-3-2026.

Rivers Cantrell
(Secretary)

8620 FM 741 Forney, TX 75126
(Address) (Zip Code)

Kaufman County
(Name of Sponsor)

By

Title County Judge

1902 E US HWY 175 Kaufman, TX 75142
(Address) (Zip Code)

Date

The signing of this application was authorized by resolution of the governing body of the

adopted at a meeting held on .

(Secretary) (Address) (Zip Code)

(Name of Sponsor)

By

Title

Date

(Address) (Zip Code)

The signing of this application was authorized by resolution of the governing body of the

adopted at a meeting held on .

(Secretary) (Address) (Zip Code)

TEXAS STATE SOIL AND WATER CONSERVATION BOARD
Flood Control Structural Repair Grant Program

APPLICATION FOR STRUCTURAL REPAIRS

(High Hazard Dam Upgrade)

Use this application to request financial assistance for conducting dam upgrades on flood control dams as defined by Texas Administrative Code, Title 31, Chapter 529, Subchapter B. Do not use this form to request grant funds to provide a portion of the matching funds required for a federal rehabilitation project or federal Emergency Watershed Protection Program project being performed by the USDA-Natural Resources Conservation Service. Funds for matching rehabilitation projects may be requested by submitting Form Number TSSWCB-FC-2; funds for matching Emergency Watershed Protection Program projects may be requested by submitting Form Number TSSWCB-FC-3.

ADMINISTRATIVE FORM

One Administrative Form must be completed for each application. An individual Technical Form [Form Number TSSWCB-FC-7B] must be completed for each flood control dam for which dam upgrade funds are requested. The combination of an Administrative Form, all associated Technical Forms, and all other required documentation constitutes a complete application.

FORM NUMBER: TSSWCB-FC-7A
Effective Date: January 1, 2023

Submit completed applications to:
TSSWCB
Attention: Flood Control
1497 Country View Lane
Temple, TX 76504 or
claims@tsswcb.texas.gov

For assistance in completing this application, contact:
TSSWCB Flood Control Department
(254) 773-2250
www.tsswcb.texas.gov/programs/flood-control-program

THIS SPACE FOR TSSWCB USE ONLY

Soil and Water Conservation District (SWCD) information:

Provide the following information for the Soil and Water Conservation District (SWCD) that is a sponsor of the flood control dam or dams that are specified on Technical Forms submitted with this Administrative Form. To request grant funds for dams where another SWCD is a sponsor, complete another Administrative Form and submit it with the appropriate Technical Forms as a separate application.

SWCD Name:	Kaufman-Van Zandt		
SWCD Number:	505	SWCD City:	Forney
Chairman First Name:	Roy	SWCD Zip Code:	75126
Chairman Last Name:	Deen	SWCD Phone Number:	972-552-5254 ext 3
SWCD Address:	8620 FM 741	SWCD Fax Number:	
SWCD Office/Suite Number:		SWCD Email Address:	kaufmanvnzandt@swcd.texas.gov

Authorized Representative information:

Provide the following information for the individual that the SWCD and other sponsors have mutually agreed should be the point of contact for all inquiries the Texas State Soil and Water Conservation Board (TSSWCB) may have regarding this application. The authorized representative must be an individual affiliated with one of the sponsors.

First Name:	Owen	Last Name:	Cantrell
Organization:	Kaufman-Van Zandt SWCD		
Address:	8620 FM 741	Zip Code:	75126
Office/Suite Number:		Phone Number:	214-356-5626
City:	Forney	Fax Number:	
State:	Texas	Email Address:	bigo@inbox.com

Provide the following information for the additional sponsors of flood control dams for which Technical Forms have been submitted (with this Administrative Form). Space for up to four additional sponsors has been provided below. All sponsors of each flood control dam must be listed below.

Non-SWCD Sponsor #1 information:

Entity Name:	Kaufman County	State:	Texas
Contact Person:	Jakie Allen, County Judge	Zip Code:	75142
Address:	1902 E US HWY 175	Phone Number:	469-376-4139
Office/Suite Number:		Fax Number:	
City:	Kaufman	Email Address:	ashley.kirby@kaufmancounty.netCedar Creek site 57

Non-SWCD Sponsor #2 information:

Entity Name:		State:	
Contact Person:		Zip Code:	
Address:		Phone Number:	
Office/Suite Number:		Fax Number:	
City:		Email Address:	

Non-SWCD Sponsor #3 information:

Entity Name:		State:	
Contact Person:		Zip Code:	
Address:		Phone Number:	
Office/Suite Number:		Fax Number:	
City:		Email Address:	

Non-SWCD Sponsor #4 information:

Entity Name:		State:	
Contact Person:		Zip Code:	
Address:		Phone Number:	
Office/Suite Number:		Fax Number:	
City:		Email Address:	

Project Description

Provide a description of the overall project. Include information such as the type of repair(s) needed, the number of flood control dams involved, and the length of time the repair need has been known to the local sponsors. Use this space to narratively provide any additional information the TSSWCB may find useful when considering the importance of this project.

Cedar Creek 57, TX03338; has a wave bite across the entire front slope, the principal spillway needs to be replaced with a larger inlet and pipe to accommodate future development that is planned. The dam was built as a low hazard dam but due to downstream development TCFQ has raised it to high hazard. The current dam does not meet high hazard standards. The repair needs have been known for several years and have been noted in both local and TCEQ inspections. HDR conducted an assessment in December 2024.

Project Schedule:

Use this space to describe the anticipated length of time, schedule of events, and target completion date for all work to be completed through structural repair grant funds.

the time frame for completion of the project would be approximately three years, engineering, contracting, construction.

Contracting Preferences / Organization of Partners:

Use this space to describe the preferable organization of contracting between the TSSWCB and local sponsors. Specify preferences for which local sponsors should enter into contracts with the TSSWCB for activities such as construction, land rights acquisition, or other allowable activities. The TSSWCB has designed this program to allow for significant flexibility for contracting with different types of local sponsors so that the most appropriate and efficient mechanisms are available for grant funds obligation.

Kaufman County will be the contracting officer.

Grant Funds Requested for Design and Construction:

Use this table to summarize the total construction costs for all dam upgrade activities specified on each Technical Form submitted with this Administrative Form. List in order of highest local priority to lowest local priority.

	NID ID Number	Watershed Name and Site Number	Construction Cost Estimate
1	TX03338	Cedar Creek 57	$ 10,000,000
2			$
3			$
4			$
5			$
6			$
7			$ 10
8			$

Total Construction Cost Estimate

$ 10,000,000

Anticipated Costs for Purchasing Easements and Land Rights:

Is it anticipated that easements or other land rights will need to be acquired in order to perform the dam upgrades identified in this application? ☐ Yes ☒ No

If "yes," characterize the anticipated type, extent, and cost:

Associate anticipated costs with specific flood control dams if this application addresses more than one dam.

TOTAL ESTIMATED COST OF PURCHASING EASEMENTS AND LAND RIGHTS

$ 0.00

Other Costs:

Are any costs other than those related to engineering design, construction, administration, easements, or land rights acquisition anticipated in order to perform the dam upgrades identified in this application? ☐ Yes ☒ No

If "yes," describe the other anticipated costs:

TOTAL ESTIMATED AMOUNT OF OTHER COSTS

$ 0.00

ESTIMATED GRAND TOTAL FOR PROJECT: $ 10,000,000

Priority for Funding:
The general priority order for all funding will be as follows:

1. Providing state matching funds for federal Watershed Rehabilitation or Emergency Watershed Protection projects.
2. Projects deemed to be "essential" projects.
3. Dam repair projects ranked and prioritized in a previous funding cycle for which designs have been prepared but construction funds were not available in the previous cycle.
4. High hazard dam repair projects ranked and prioritized in the current funding cycle.
5. High hazard dam upgrade projects ranked and prioritized in a previous funding cycle for which designs have been prepared but construction funds were not available in the previous cycle.
6. Dam upgrade projects ranked and prioritized in the current funding cycle.
7. Low and significant hazard dam repair projects ranked and prioritized in the current funding cycle.

Funding may be provided for design of the highest priority high hazard dam upgrades in the current funding cycle, but these projects may not be ready for construction funding for about 2 years. When ready for construction, "general priority 5" shown above will be followed to fund construction.

If an application is submitted for state funded upgrade of a dam, and before designs are started that dam receives federal funding to begin the federal rehabilitation process, that dam will no longer be eligible for state funded upgrade. However, when the dam receives federal funding for construction, it will be included in "general priority 1" and prioritized with other federally funded projects to receive matching state funds for construction.

Funding is allocated to dams in the priority order shown above. If the next dam in priority order to receive funds has an estimated cost which exceeds available funds, this dam will be skipped over to fund a lower cost dam for which available funds are adequate. This could occur within a single category, or among several categories.

General Information About Application Process:
TSSWCB has established policy to aid in ranking eligible dam rehabilitation, repair, and upgrade projects for grant funding opportunities for sponsors. TSSWCB staff will accept applications up to the posted deadline and will rank all applications based on this guidance. Applications may be scanned and submitted by email or sent by postal mail. All applications must be received by TSSWCB within the specified time frame to be considered for funding. Applications must be legible and complete with all questions answered and data fields filled, with supporting documentation included if required. If a data field does not apply, enter "N/A". Sponsors must not submit applications for more projects than they can complete within the specified funding cycle. If sponsors wish to apply for both repair and upgrade on the same dam, separate repair and upgrade applications must be submitted for that dam.

Each application will be scored and ranked within its category. All scores will be documented, and projects selected for funding based on available funding and best available project cost data. All sponsors will be notified of how all projects ranked and which projects will be funded for the funding cycle.

In the event the applicant disagrees with the TSSWCB ranked score, the applicants' representative may provide a written request justifying a reevaluation of the ranked score and provide any additional supporting information that was not previously provided in the original application submission. TSSWCB will make the determination if a rescore is warranted. However, protection of life and property (in that order) will be major deciding factors in any deviation from the ranking score system.

For additional details, see "*Priority and Ranking Policy*" posted on the TSSWCB web page:
https://www.tsswcb.texas.gov/index.php/programs/flood-control-program.

Grant Funds for Administrative Services 31 TAC 529:
In accordance with Texas Administrative Code, Title 31, Chapter 529, Subchapter B, administrative costs in an amount not to exceed 5% of the total cost for construction, easement and/or land rights acquisition or other costs approved by the TSSWCB are allowable. Exact administrative fee amounts and the request process will be negotiated between the TSSWCB and selected applicants at the time of contract.

Sponsor Certification Signatures

31 TAC §529.55 (c) requires that all applications must have certification signatures by authorized individuals from all sponsors identified in the applicable watershed agreement with O&M responsibility for the flood control dam(s) on which upgrades are proposed acknowledging and approving the application prior to it being submitted to the State Board for consideration. Certification by signature means the sponsor agrees to cooperate on the project with the other sponsors, may consider entering into a contract with the State Board relating to the project's completion. Where one or more of the sponsors listed on the watershed agreement is no longer formally in existence, the remaining sponsors should contact the State Board prior to submitting an application for additional guidance.

SWCD Signature:

Roy Deen — Signature — 6-3-2026 — Date

Roy Deen | Chairman

Kaufman-Van Zandt SWCD 505

Non-SWCD Sponsor #1 Signature:

Signature — Date

Jakie Allen, County Judge

Kaufman County, Texas

Non-SWCD Sponsor #2 Signature:

Signature — Date

Non-SWCD Sponsor #3 Signature:

Signature — Date

Non-SWCD Sponsor #4 Signature:

Signature — Date

Authorized Representative Certification Signature

31 TAC §529.55 (d) requires that each application must identify one individual as the person that will represent all sponsors identified on the application. The authorized representative shall be the single point of contact for all communications regarding an application.

Owen Cantrell — Signature — 6-3-2026 — Date

Owen Cantrell | District Technician

Kaufman-Van Zandt SWCD 505

KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net, and Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Wednesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

COURT DATE REQUESTED:	SUBMITTED BY: ITS DEPARTMENT:	PERSON PRESENTING:
6/16/26		Brenda Callaway, P.E.

ITEM REQUESTED IS FOR:

- ○ Consent Agenda
- ◉ Action/Consideration
- ○ Discussion/Report
- ○ Executive Session
- ○ Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Discussion/Consideration of Approval of Appointment of Brenda Callaway, P.E. to the Surface Transportation Technical Committee to Represent Kaufman County.

INNOVATIVE TRANSPORTATION SOLUTIONS, INC.
1422 W. Main Street • Suite #106 • Lewisville, TX 75067 • (972) 484-2525

MEMORANDUM

TO: Judge Jakie Allen

FROM: John R. Polster

DATE: June 9, 2026

RE: Discussion of Kaufman County STTC Appointment

The Surface Transportation Technical Committee (STTC) reviews, comments on, and prepares recommendations regarding surface transportation planning and funding of transportation improvements in the DFW metropolitan area. Currently, Barry Heard, P.E. serves as Kaufman County's representative on this technical committee. With Brenda Callaway, P.E. coordinating the majority of Kaufman County's technical efforts, ITS recommends requesting that Brenda Callaway represent Kaufman County's technical interests at STTC.

Please include the following in the agenda packet:
"Discussion/Consideration of Approval of Appointment of Brenda Callaway, P.E. to the Surface Transportation Technical Committee to Represent Kaufman County."

It is ITS's recommendation that the Kaufman County Commissioners Court consider approval of this appointment. Please take the necessary steps to place this on the court's agenda for consideration. If you have any questions, please call me at (972) 484-2525.

KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net, and Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Wednesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

COURT DATE REQUESTED:	SUBMITTED BY: ITS DEPARTMENT:	PERSON PRESENTING:
6/16/26		Brenda Callaway, P.E.

ITEM REQUESTED IS FOR:

- ○ Consent Agenda
- ◉ Action/Consideration
- ○ Discussion/Report
- ○ Executive Session
- ○ Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Discussion/Consideration of Approval of Authorization of the ICA between Kaufman County and Crandall EDC for the FM 741-US 175 Project and Receipt of Funding from Crandall EDC for the Project in the Amount of $315,000.00.

INNOVATIVE TRANSPORTATION SOLUTIONS INC.
1422 W. Main Street • Suite #106 • Lewisville, TX 75067 • (972) 484-2525

MEMORANDUM

TO: **Judge Jakie Allen**

FROM: **John R. Polster**

DATE: **June 9, 2026**

RE: **Discussion of ICA between Kaufman County and Crandall EDC for the FM 741 at US 175 Project**

Attached please find the ICA between Kaufman County and the Crandall EDC for the FM 741 at US 175 Project. The purpose of this ICA is to provide PS&E for the FM 741 at US 175 project. The cost of the engineering services is $1,341,918.00. Crandall EDC has agreed to contribute $315,000.00 toward project completion. Crandall EDC will be transmitting funding to Kaufman County in July 2026. Kaufman County will provide the remainder of the required funding, and the county's funding commitment to this project will be addressed in the Professional Services Agreement with HDR.

Upon receipt of funding from Crandall EDC, funding is recommended to be placed as follows: $315,000.00 in FM 741-US 175, Judge, 2019, Auditor #136412-204-01 (#136-7004-657)

Please submit the executed agreement to:

Crandall Economic Development Corporation
ATTN: Mr. Mike Slye, Executive Director
116 South Main Street, P.O. Box 88
Crandall, Texas 75114

Please include the following in the agenda packet:
"Discussion/Consideration of Approval of Authorization of the ICA between Kaufman County and Crandall EDC for the FM 741-US 175 Project and Receipt of Funding from Crandall EDC for the Project in the Amount of $315,000.00."

Please take the necessary steps to place this agreement on the court's agenda for consideration. If you have any questions, please call me at (972) 484-2525.

Attachment

cc: Ms. Karen Badgley, Kaufman County Civil Attorney
Ms. Brandi Van Huss, Kaufman County Auditor

THE STATE OF TEXAS §
§
COUNTY OF KAUFMAN §

INTERLOCAL COOPERATION AGREEMENT BETWEEN KAUFMAN COUNTY, TEXAS, AND THE CRANDALL ECONOMIC DEVELOPMENT CORPORATION

THIS AGREEMENT is made, entered into and executed by and between Kaufman County, Texas ("the County"), a duly organized political subdivision of the State of Texas; and the Crandall Economic Development Corporation ("the Corporation"), a duly organized nonprofit created within the State of Texas. The County and the Corporation are collectively referred to herein as "the Parties."

WHEREAS, the County and the Corporation mutually desire to enter into this Agreement for the purpose of providing engineering for FM 741 at US 175, located entirely in the municipal limits of the City of Crandall and Kaufman County Commissioner Precinct #4, hereinafter "the Project"; and

WHEREAS, the estimated cost of completion for the Project is ONE MILLION THREE HUNDRED FORTY-ONE THOUSAND NINE HUNDRED EIGHTEEN AND NO/100 DOLLARS ($1,341,918.00), with the Corporation agreeing to contribute an amount which shall not exceed THREE HUNDRED FIFTEEN THOUSAND AND NO/100 DOLLARS ($315,000.00), toward satisfactory completion of the Project, and

WHEREAS, the Interlocal Cooperation Act, Texas Government Code Chapter 791, hereinafter "the Act," provides authorization for a local government to contract with one or more local governments to perform governmental functions and services under the terms of the Act, and the County and the Corporation hereby mutually agree to be subject to the provisions of the Act; and

WHEREAS, the County and the Corporation value the timely completion of the Project which involves roads which are an integral part of the County's road system, and the Parties are undertaking the Project to facilitate safe travel on an improved roadway;

NOW, THEREFORE, this Agreement is hereby made and entered into by the County and the Corporation upon and for the mutual consideration stated herein:

WITNESSETH:

I.

Pursuant to Texas Government Code §791.011, the County and the Corporation hereby enter into this Agreement in order to perform certain governmental functions and services in the area of streets, roads, and drainage. The purpose of this Agreement is to provide a governmental function or service that each party is authorized to perform individually, and in accordance with Section 791.011(d)(3) of the Act, each Party is paying for the performance of governmental functions and services from current revenues available to the paying party.

II.

The County and the Corporation hereby agree that the scope of the Project shall be for the purpose of providing engineering for FM 741 at US 175, at an estimated cost of ONE MILLION THREE HUNDRED FORTY-ONE THOUSAND NINE HUNDRED EIGHTEEN AND NO/100 DOLLARS ($1,341,918.00), with the Corporation agreeing to contribute an amount which shall not exceed THREE HUNDRED FIFTEEN THOUSAND AND NO/100 DOLLARS ($315,000.00), toward satisfactory completion of the Project. The Project is located entirely within the municipal limits of the City and Kaufman County Commissioner Precinct #4.

III.

The County agrees to secure the contracts for the PS&E of the Project, and to oversee any and all necessary engineering which may be required for satisfactory completion of the Project.

IV.

The Corporation agrees to contribute an amount which shall not exceed THREE HUNDRED FIFTEEN THOUSAND AND NO/100 DOLLARS ($315,000.00).

V.

This exchange of in-kind services between the County and the Corporation is deemed adequate consideration for the obligations exchanged by the Parties herein.

VI.

The funding from the Corporation will be due upon execution of the Agreement. In the event that the Project is completed under budget, any remaining funds shall be reimbursed to the Crandall Economic Development Corporation, Texas.

VII.

As required by Texas Transportation Code §251.012 and as evidenced by the signature of the

Corporation's representative below, the governing body of the Corporation by the execution of and approval of this Agreement hereby approves of the expenditure of County money to finance the construction, improvement, maintenance, or repair of a street or alley in the County that is located in the Corporation.

VIII.

This agreement may be terminated in whole, or in part, by the County or the Corporation upon thirty days written notice to the other party. In the event of termination by the County, the County shall pay all approved invoices submitted up to and including the date of termination.

IX.

This Agreement represents the entire integrated agreement between the County and the Corporation and supersedes all prior negotiations, representations, and agreements, either oral or written. This Agreement may be amended only by written instrument signed by both of the Parties. Notices shall be directed as follows:

For Corporation:	Mike Slye, Executive Director Crandall Economic Development Corporation, Texas 116 South Main Street, P.O. Box 88 Crandall, Texas 75114
Copy To:	Rebekah Eskridge, Crandall EDC Secretary Crandall Economic Development Corporation, Texas 116 South Main Street, P.O. Box 88 Crandall, Texas 75114
For County:	Honorable Jakie Allen, Kaufman County Judge 1902 E. US Highway 175 Kaufman, Texas 75142
Copy To:	Kaufman County Criminal District Attorney's Office - Civil Division 1902 E. US Highway 175 Kaufman, Texas 75142

X.

The covenants, terms, and conditions herein are to be construed under the laws of the State of Texas and are performable by the Parties in Kaufman County, Texas. The Parties mutually agree that venue for any obligation arising from this Agreement shall be in Kaufman County, Texas.

XI.

The Corporation agrees and understands that the Corporation, its employees, servants, agents or representatives shall at no time represent themselves to be employees, servants, agents or representatives of the County.

XII.

The Corporation agrees to accept full responsibility for the acts, negligence and omissions of all Corporation employees, agents, subcontractors or contract laborers and for all other persons doing work under a contract or agreement with the Corporation.

XIII.

This Agreement is not intended to extend the liability of the Parties beyond that provided for by law. Neither the County nor the Corporation waive, nor shall be deemed to have hereby waived, any immunity or defense that would otherwise be available to it against claims made by third parties.

XIV.

In the event that any portion of this Agreement shall be found to be contrary to law, it is the intent of the Parties hereto that the remaining portions shall remain valid and in full force and effect to the fullest extent possible.

XV.

The undersigned officers and agents of the Parties hereto are the properly authorized officials and have the necessary authority to execute this Agreement on behalf of the Parties hereto, and each party hereby certifies to the other that any necessary resolutions extending said authority have been duly passed and are now in full force and effect.

XVI.

This Agreement becomes effective when signed by the last party whose signing makes the respective agreement fully executed, and the term of this Agreement is for the life of the Project beginning on the date of execution of this Agreement and continuing until the Project is completed.

Executed this _____ day of _____, 2026.

KAUFMAN COUNTY, TEXAS
1902 E. US Highway 175
Kaufman, Texas 75142

By: _____
Honorable Jakie Allen
Kaufman County Judge
Acting by and on behalf of the authority
of the Kaufman County Commissioners Court

ATTEST:

By: _____
Kaufman County Clerk

CRANDALL EDC, TEXAS
116 South Main Street, P.O. Box 88
Crandall, Texas 75114

By: _____
Mr. Mike Slye
Executive Director, Crandall EDC, Texas
Acting by and on behalf of the authority
of the Crandall EDC, Texas

ATTEST:

By: Rebekah Greenidge
Crandall EDC Secretary

COUNTY AUDITOR'S CERTIFICATE

I hereby certify funds are available to accomplish and pay the obligation of Kaufman County, Texas, under this Agreement.

_____

Kaufman County Auditor

APPROVAL OF INTERLOCAL COOPERATION AGREEMENT

Kaufman County, Texas, acting by and through the Kaufman County Commissioners Court, hereby gives its specific written approval to the following Project, prior to beginning of the Project in satisfaction of Texas Government Code §791.014. The scope of the Project shall be for the purpose of providing engineering for FM 741 at US 175, at an estimated cost of completion of ONE MILLION THREE HUNDRED FORTY-ONE THOUSAND NINE HUNDRED EIGHTEEN AND NO/100 DOLLARS ($1,341,918.00). The Project shall be located entirely within the municipal limits of the City of Crandall and Kaufman County Commissioner Precinct #4.

The County hereby agrees to secure the contracts for the PS&E of the Project, and to oversee any and all necessary engineering which may be required satisfactory completion of the Project.

The local governments which requested the Project and with whom the Agreement is by and between are Kaufman County, Texas, and the Crandall Economic Development Corporation, Texas.

By vote on the date below, the Kaufman County Commissioners Court has approved the project identified above and authorized execution of this document by the presiding officer of the Kaufman County Commissioners Court.

Date: _____

By: _____
Presiding Officer of the Kaufman
County Commissioners Court

EXHIBIT A: PROJECT EXHIBIT

KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net, and Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Wednesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

COURT DATE REQUESTED:	SUBMITTED BY: ITS DEPARTMENT:	PERSON PRESENTING:
6/16/26		Brenda Callaway, P.E.

ITEM REQUESTED IS FOR:

- ○ Consent Agenda
- ◉ Action/Consideration
- ○ Discussion/Report
- ○ Executive Session
- ○ Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Discussion/Consideration of Approval of Professional Services Agreement between Kaufman County and HDR for the FM 741 at US 175 Project in the Amount of $1,341,918.00.

INNOVATIVE TRANSPORTATION SOLUTIONS, INC.
1422 W. Main Street • Suite #106 • Lewisville, TX 75067 • (972) 484-2525

MEMORANDUM

TO: **Judge Jakie Allen**

FROM: **John R. Polster**

DATE: **June 9, 2026**

RE: **Discussion of Professional Services Agreement with HDR for the FM 741 at US 175 Project**

Attached please find the Professional Services Agreement with HDR, Engineering, Inc. for the FM 741 at US 175 project. The scope of services for this Professional Services Agreement is to provide PS&E and supporting environmental documentation for the project. The total cost of this Professional Services Agreement is $1,341,918.00.

Funding transfer is recommended as follows:
$134,972.56 to come from Precinct 4 Discretionary, 2019 Bond Funds, Auditor #136401-204-01 (#136-7004-644)
To be transferred to:
$134,972.56 to FM 741 at US 175, Auditor #136412-204-01 (#136-7004-657)

$111,826.06 to come from Precinct 1 Discretionary, 2019 Bond Funds, Auditor #136101-201-01 (#136-7001-644)
To be transferred to:
$111,826.06 to FM 741 at US 175, Auditor #136412-204-01 (#136-7004-657)

$66,707.69 to come from CR 152, Precinct 1 County Roads, 2019 Bond Funds, Auditor #136115-201-01 (#136-7001-658)
To be transferred to:
$66,707.69 to FM 741 at US 175, Auditor #136412-204-01 (#136-7004-657)

$713,411.69 to come from Bond Program Management, 2019 Bond Funds, Auditor #136002-100-01 (#136-7000-645)
To be transferred to:
$713,411.69 to FM 741 at US 175, Auditor #136412-204-01 (#136-7004-657)

$315,000.00 to come from Crandall EDC via Interlocal Cooperative Agreement

Please return an executed agreement to:
HDR Engineering, Inc.
ATTN: Mr. Gregory Kochersperger, P.E.

17111 Preston Road
Suite 300
Dallas, TX 75248

Please include the following in the agenda packet:
"Discussion/Consideration of Approval of Professional Services Agreement between Kaufman County and HDR for the FM 741 at US 175 Project in the Amount of $1,341,918.00."

It is ITS's recommendation that the Kaufman County Commissioners Court consider approval of this agreement. Please take the necessary steps to place this on the court's agenda for consideration. If you have any questions, please call me at (972) 484-2525.

cc: Ms. Brandi Van Huss, Kaufman County Auditor
Mr. Terry Crow, Kaufman County Commissioner Precinct 1
Mr. Tommy Moore, Kaufman County Commissioner Precinct 4

AGREEMENT BETWEEN COUNTY AND ENGINEER

THIS DOCUMENT HAS IMPORTANT LEGAL CONSEQUENCES; CONSULTATION WITH AN ATTORNEY IS ENCOURAGED WITH RESPECT TO ITS COMPLETION OR MODIFICATION.

THIS AGREEMENT is made on the _____ day of _____, 2025,

Between the **COUNTY:**	KAUFMAN COUNTY, TEXAS c/o Kaufman County Commissioners Court Attention: County Judge 1902 US Highway 175 P.O. Box 729 Kaufman, Texas 75142
and the **ENGINEER:**	HDR ENGINEERING, INC. Attention: Lucas Bathurst, PE 17111 Preston Rd, Suite 300 Dallas, TX 75248
for the following **PROJECT:**	Professional engineering services for the development of Plans, Specifications, and Estimate (PS&E) and supporting environmental documentation for the replacement of the on-system bridge at FM741 over US 175.
in the **AMOUNT** of:	$ 1,341,918.00

The COUNTY and ENGINEER agree as set forth below.

ARTICLE I
ENGINEER'S RESPONSIBILITY

1.1 The ENGINEER'S services consist of those services performed by the ENGINEER, ENGINEER'S employees, and the ENGINEER'S consultants as enumerated in Articles 2 and 3 of this Agreement.

1.2 The ENGINEER'S services shall be performed as expeditiously as is consistent with professional skill and care and the orderly progress of the Work. The ENGINEER shall submit for the COUNTY'S approval a schedule for the performance of the ENGINEER'S services which may be adjusted as the Project proceeds and shall include allowances for periods of time required for the COUNTY'S review and for approval of submissions by authorities having jurisdiction over the Project. Time limits established by this schedule approved by the COUNTY shall not, except for reasonable cause, be exceeded by the ENGINEER

or the COUNTY.

ARTICLE II
SCOPE OF ENGINEER'S BASIC SERVICES

2.1 The ENGINEER'S Basic Services consist of those described in attached EXHIBIT "A" and incorporated by reference hereto – SCOPE OF BASIC SERVICES TO BE PROVIDED BY THE ENGINEER TO KAUFMAN COUNTY.

ARTICLE III
ADDITIONAL SERVICES

3.1 The services described in attached EXHIBIT "D" as Additional Services are not included in the Basic Services. It is expressly understood and agreed that ENGINEER shall not furnish any of the additional services without the prior written authorization of the COUNTY or the COUNTY'S designee. The COUNTY shall have no obligation to pay for such additional services, which have been performed without the prior written authorization of the COUNTY as herein above provided.

3.2 Services which could possibly be required, but at the time of this Agreement were yet to be determined and which are not included in the Basic Services or Additional Services as identified and described in EXHIBIT "A" and EXHIBIT "D," respectively, shall be considered Contingent Additional Services. Contingent Additional Services identified as the project proceeds shall be identified as Exhibit E.

3.3 It is expressly understood and agreed that the ENGINEER shall not furnish any of the Contingent Additional Services without the prior written authorization of the COUNTY or the COUNTY'S designee. The COUNTY shall have no obligation to pay for such Contingent Additional Services, which have been performed without the prior written authorization of the COUNTY as herein above provided.

ARTICLE IV
COUNTY'S RESPONSIBILITY

4.1 The COUNTY shall provide full information regarding requirements for the Project, including a program, which shall set forth the COUNTY's objective, schedules, constraints, and criteria. The COUNTY shall also provide the ENGINEER with copies of all information and documents in the COUNTY's possession which pertain to the Project site and upon which the ENGINEER may rely. ENGINEER shall be entitled to rely upon the accuracy and completeness of such information provided to it by the CONNTY.

4.2 The COUNTY shall establish and update an overall budget for the Project, including the Construction Cost, the COUNTY'S other costs, and reasonable contingencies related to all of these costs.

4.3 The COUNTY shall designate a representative authorized to act on the COUNTY'S behalf with respect to the Project. The COUNTY, or such authorized representative, shall render decisions in a timely manner pertaining to documents submitted by the ENGINEER in order to avoid unreasonable delay in the orderly and sequential progress of the ENGINEER'S service.

4.4 The COUNTY shall give prompt written notice to the ENGINEER if the COUNTY becomes aware of any fault or defect in the Project or non-conformance with the contract documents. Any delay by the COUNTY in providing said notice shall not constitute a waiver, a bar, or act to stop the COUNTY from exercising any of its rights under this contract.

4.5 Examine all studies, reports, sketches, drawings, specifications, proposals, and other documents presented by the ENGINEER; obtain advice of an attorney, insurance counselor, and other consultants as the COUNTY deems appropriate for such examination; and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the ENGINEER.

4.6 The proposed language of certificates or certifications requested of the ENGINEER or the ENGINEER'S consultants shall be submitted to the ENGINEER for review and approval at least 14 days prior to execution. The COUNTY shall not request certifications that would require knowledge or services beyond the scope of this Agreement.

4.7 The COUNTY shall also provide those specific items identified in the attached EXHIBIT "A" incorporated by reference hereto – ITEMS TO BE PROVIDED BY THE COUNTY TO THE ENGINEER.

ARTICLE V
CONSTRUCTION COST

5.1 DEFINITION

5.2 The Construction Cost shall be the total cost or estimated cost to the COUNTY of all elements of the Project designed or specified by the ENGINEER.

5.3 The Construction Cost shall include the cost at current market rates of labor and materials furnished by the COUNTY and equipment designed, specified, selected or specially provided by the ENGINEER, plus a reasonable allowance for the Contractor's overhead and profit. In addition, a reasonable allowance for contingencies shall be included for market conditions at the time of bidding and for changes in the work during construction.

5.4 Construction Cost does not include the compensation of the ENGINEER and the ENGINEER'S consultants, the costs of the land, right-of-way, financing, or other costs which are the responsibility of the COUNTY.

5.5 RESPONSIBILITY FOR CONSTRUCTION COSTS: Evaluations of the COUNTY'S Project budget, preliminary estimates of Construction Cost and detailed estimates of Construction Cost, if any, prepared by the ENGINEER, represent the ENGINEER'S best judgment as a design professional familiar with the construction industry. It is recognized, however, that neither the ENGINEER nor the COUNTY has control over the cost of labor, materials, or equipment; over the Contractor's methods of determining bid prices; or over competitive bidding, market, or negotiating conditions. Accordingly, the ENGINEER cannot and does not warrant or represent that bids or negotiated prices will not vary from the COUNTY'S Project budget or from any estimate of Construction Cost or evaluation prepared or agreed to by the ENGINEER.

ARTICLE VI
USE OF ENGINEER'S DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS

6.1 Upon full payment of amounts owed to ENGINEER under this Agreement, the COUNTY shall be the absolute and unqualified owner of all drawings, preliminary layouts, record drawings, sketches, and other documents prepared pursuant to this Agreement by the ENGINEER with the same force and effect as if the COUNTY prepared same. Copies of complete or partially completed mylar reproducible, preliminary layouts, record drawings, sketches, and other documents prepared pursuant to this Agreement shall be

delivered to the COUNTY when and if this Agreement is terminated or upon completion of this Agreement, whichever occurs first. The ENGINEER may retain one set of reproducible copies of the documents, and these copies shall be for the ENGINEER'S sole use in preparation of studies or reports for the COUNTY. The ENGINEER is expressly prohibited from selling, licensing, or otherwise marketing or donating these documents, or using the documents in preparation of other work for any other client, without the prior express written permission of the COUNTY.

6.2 All documents including reports, drawings, and specifications prepared by the ENGINEER pursuant to this Agreement are instruments of service in respect of the Project. They are not intended or represented to be suitable for reuse by the COUNTY or others on extensions of the Project or on any other project. Any reuse without written verification or adaptation by the ENGINEER for the specific purposes intended will be at the COUNTY'S sole risk and without liability or legal exposure to the ENGINEER. Any such verification or adaptation will entitle the ENGINEER to further compensation at rates to be agreed upon by the COUNTY and the ENGINEER.

6.3 Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the Project is not to be construed as publication in derogation of the ENGINEER'S reserved rights.

ARTICLE VII
TERMINATION, SUSPENSION, OR ABANDONMENT

7.1 This Agreement may be terminated by either party upon not less than fourteen (14) days written notice should the other party fail to substantially perform in accordance with the terms of this Agreement through no fault of the party initiating the termination.

7.2 If the COUNTY suspends the Project for more than thirty (30) consecutive days, the ENGINEER shall be compensated for services performed prior to notice of such suspension.

7.3 This Agreement may be terminated by the COUNTY upon not less than fourteen (14) days written notice to the ENGINEER in the event that the Project is permanently abandoned. If the COUNTY abandons the Project for more than ninety (90) consecutive days, the ENGINEER may terminate this Agreement by giving written notice.

7.4 If the COUNTY fails to give prompt written authorization to proceed with any phase of services after completion of the immediately preceding phase, the ENGINEER may, after giving seven (7) days written notice to the COUNTY, suspend services under this Agreement.

7.5 Failure of the COUNTY to make payments to the ENGINEER in accordance with this Agreement shall be considered substantial nonperformance and cause for termination.

7.6 If the COUNTY fails to make payment when due to the ENGINEER for services and expenses, the ENGINEER may, upon seven (7) days written notice to the COUNTY, suspend performance of services under this Agreement. Unless the ENGINEER receives payment in full within seven (7) days of the date of the notice, the suspension shall take effect without further notice. In the event of a suspension of services, the ENGINEER shall have no liability to the COUNTY for delay or damage caused by the COUNTY because of suspension of services.

7.7 In the event of termination that is not the fault of the ENGINEER, the ENGINEER shall be compensated for services performed prior to termination, together with Reimbursable Expenses, if any, then due.

7.8 All employees of the ENGINEER assigned to this contract shall have such knowledge and experience as will enable them to perform the duties assigned to them. The COUNTY may instruct the ENGINEER to remove any employee from association with work authorized in this contract if, in the sole opinion of the COUNTY, the work of that employee does not comply with the terms of this contract or if the conduct of that employee becomes detrimental to the work.

7.9 PROJECT MANAGER COMMITMENT

7.9.1 The COUNTY expects the ENGINEER to commit its PROJECT MANAGER and TASK LEADERS, as proposed in the RFQ, for the duration of the contract. The COUNTY further expects the PROJECT MANAGER's commitment to the contract to include commitment as PROJECT MANAGER for each work authorization without further delegation or substitution over the course of the contract. PROJECT MANAGER replacement on an active contract, while not strictly prohibited, will require the COUNTY's prior consent.

7.9.2 The ENGINEER must notify the COUNTY in writing as soon as possible, but no later than three business days after a PROJECT MANAGER or other key personnel is removed from association with this contract, giving the reason for removal.

7.9.3 When requesting a replacement for a PROJECT MANAGER or TASK LEADER, the ENGINEER must submit a request to the COUNTY with the following information:

- Certification that replacement PROJECT MANAGER is employed by the ENGINEER, or certification that the replacement TASK LEADER is employed by the ENGINEER or one of the approved subconsultants.
- The name of the proposed individual and the reason for the replacement.
- Resume of the proposed replacement, including the credentials and experience of the individual. Also include information about licensures, TxDOT pre-certifications, or other certifications required in the contract.

7.9.4 The COUNTY must be satisfied that the new PROJECT MANAGER or other key personnel is qualified to provide the authorized services. If the COUNTY determines that the new PROJECT MANAGER or key personnel is not acceptable, the ENGINEER may not use that person in that capacity and shall replace him or her with one satisfactory to the COUNTY within forty-five (45) days.

ARTICLE VIII
MISCELLANEOUS PROVISIONS

8.1 Unless otherwise provided, this Agreement shall be governed by the law of the principal place of business of the COUNTY. Venue for any dispute or disagreement regarding the terms of this Agreement shall be in Kaufman County, Texas.

8.2 Causes of action between the parties to this Agreement pertaining to acts or failures to act shall be deemed to have accrued and the applicable statutes of limitation shall commence to run not later than either the date of Substantial Completion, or the date of issuance of the final Certificate for Payment for acts or failures to act occurring after Substantial Completion.

8.3 The COUNTY and the ENGINEER, respectively, bind themselves, their partners, successors, assigns and legal representatives to the other party to this Agreement and to the partners, successors, assigns and legal representative of such other party with respect to all covenants of this Agreement. Neither the

COUNTY nor the ENGINEER shall assign this Agreement without the express written consent of the other party.

8.4 This Agreement represents the entire integrated agreement between the COUNTY and the ENGINEER and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both the COUNTY and the ENGINEER.

8.5 Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the COUNTY or the ENGINEER.

8.6 Unless otherwise provided for in this Agreement, the ENGINEER and the ENGINEER'S consultants have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to, hazardous materials in any form at the Project site, including but not limited to asbestos, asbestos products, polychlorinated biphenyl (PCB) or other toxic substances.

8.7 The ENGINEER shall have the right to include representations of the design of the Project, including photographs, among the ENGINEER'S promotional professional materials. The ENGINEER'S materials shall not include the COUNTY'S confidential or proprietary information, if the COUNTY has previously advised the ENGINEER in writing of the specific information considered by the COUNTY to be confidential or proprietary.

8.8 COMPLIANCE AND STANDARDS: The ENGINEER agrees to perform the work hereunder in accordance with generally accepted standards applicable thereto, and shall use that degree of care and skill commensurate with the engineering profession to comply with all applicable state, federal and local laws, ordinances, rules, and regulations relating to the work to be performed hereunder and the ENGINEER'S performance.

8.9 SURVEYING SERVICES: In accordance with the Professional Land Surveying Practices Act of 1989, the COUNTY is informed that any complaints about surveying services may be forwarded to the Texas Board of Professional Land Surveying, 7701 North Lamar, Suite 400, Austin, Texas 78752, (512) 452-9427.

8.10 INDEMNIFICATION: ENGINEER shall save and hold harmless the COUNTY from and against any and all claims and liability due to activities of the ENGINEER, its agents or employees, performed under this Agreement and which result from any negligent act, error, or omission of the ENGINEER, or of any person employed by the ENGINEER. The ENGINEER shall also save harmless the COUNTY from and against any and all expenses, including reasonable attorney's fees, which might be incurred by the COUNTY in litigation, or otherwise, resisting said claims or liabilities which might be imposed on the COUNTY as the result of such negligent acts, errors or omissions of the ENGINEER, its agents, or employees.

ARTICLE IX
PAYMENTS TO THE ENGINEER

9.1 PAYMENTS ON ACCOUNT OF BASIC SERVICES: Upon approval by the COUNTY, or the COUNTY'S designee, payment for Basic Services shall be made monthly and shall be in proportion to services performed that month within each phase of service.

9.2 PAYMENTS ON ACCOUNT OF ADDITIONAL SERVICES: Upon approval by the COUNTY

or the COUNTY'S designee of the ENGINEER'S statement of services rendered or expenses incurred, payment on account of the ENGINEER'S Additional Services and for Reimbursable Expenses shall be made monthly.

9.3 PAYMENTS WITHHELD: No deductions shall be made from the ENGINEER'S compensation on account of penalty, liquidated damages or other sums withheld from payments to Contractors, or on account of the cost of changes in the Work other than those for which the ENGINEER has been found to be liable.

9.4 ENGINEER'S ACCOUNTING RECORDS: Records of Reimbursable Expenses pertaining to Additional Services and services performed on an hourly basis shall be available to the COUNTY or the COUNTY'S authorized representative at mutually convenient times.

9.5 LIMIT OF APROPRIATION: Prior to the execution of this Agreement, the ENGINEER has been advised by the COUNTY and the ENGINEER fully understand and agrees, such understanding and agreement being of the absolute essence to this Agreement, that the total maximum compensation that ENGINEER may become entitled to hereunder, and the total maximum sum that the COUNTY shall become liable to pay to the ENGINEER hereunder, shall not, under any conditions, circumstances or interpretations hereof, exceed the sum certified as available by the County Auditor in the Auditor's Certificate attached hereto.

ARTICLE X
BASIS OF COMPENSATION

The COUNTY shall compensate the ENGINEER from funds obtained through The Road Forward Initiative or current revenue of Kaufman County as follows:

10.1 BASIC COMPENSATION

10.1.1 For Basic Services, as described in Article 2, Basic Compensation shall be computed as follows:

In accordance with the attached EXHIBIT "B" incorporated by reference hereto, SCHEDULE OF FEES.

10.2 COMPENSATION FOR ADDITIONAL SERVICES

10.2.1 For Additional Services of the ENGINEER, as described in Article 3, compensation shall be negotiated at the time those services are requested by the COUNTY.

10.3 COMPENSATION FOR CONTINGENT ADDITIONAL SERVICES

10.3.1 For Contingent Additional Services of the ENGINEER, as described in Article 3, compensation shall be negotiated at the time those services are requested by the COUNTY.

10.4 PAYMENTS

10.4.1 Payments shall be made by the COUNTY in accordance with Texas Government Code Chapter 2251. The COUNTY shall pay the ENGINEER'S statement as approved by the COUNTY's designee within thirty (30) days after the COUNTY'S designee's approval of the same, provided that the approval or payment of any such statement shall not be considered to be evidence of performance by the ENGINEER to the point indicated by such statement or of receipt or acceptance by the COUNTY of the work covered by such statement.

ARTICLE XI
OTHER CONDITIONS OR SERVICES

11.1 INSURANCE

11.1.1 The ENGINEER shall file with the COUNTY a Certificate of Errors and Omissions Insurance having minimum limits of One Million and No/100 Dollars ($1,000,000.00) per claim and annual One Million and No/100 Dollars ($1,000,000.00) aggregate. Such Errors and Omissions Insurance shall have a deductible not in excess of Two Hundred Thousand and No/100 Dollars ($200,000.00) self-insured. Such Certificate shall bear the endorsement "Not to be canceled without thirty (30) days prior notice to KAUFMAN COUNTY, TEXAS." The ENGINEER shall maintain the Errors and Omissions Insurance at all times this Agreement is in effect and for a period of five (5) years after completion of the Project. Failure to maintain the required insurance shall be deemed to be a material breach of this Agreement.

11.1.2 The ENGINEER shall also provide Worker's Compensation, automobile and comprehensive general liability policies. The ENGINEER shall deliver the insurance certificates to the COUNTY. The coverage provided herein shall contain an endorsement providing thirty (30) days' notice to the COUNTY prior to any cancellation of coverage. Said coverage shall be written by an insurer acceptable to the COUNTY and shall be in a form acceptable to the COUNTY.

11.1.3 If the ENGINEER has canceled or allowed to lapse any of these insurance policies then the COUNTY may pay for such insurance and may hold the amount of such payment out of the ENGINEER's fees or be otherwise reimbursed. Failure to maintain the required insurance shall be deemed to be a material breach of this Agreement.

11.2 PERIODS OF SERVICE

11.2 The ENGINEER shall begin work immediately upon receipt of the Notice-to-Proceed in writing by the COUNTY or the COUNTY's designee. The Project will proceed according to the schedule shown in Exhibit "C." The schedule makes certain assumptions regarding review processes and other activities that are beyond the control of the ENGINEER.

11.2.2 Working days shall be defined as standard workdays between Monday and Friday, exclusive of national holidays.

11.2.3 The schedule assumes an orderly progression of the ENGINEER'S services. Delays beyond the control of the ENGINEER may be cause for extension of this period of service, in which case the ENGINEER shall submit in writing to the COUNTY its request for such extensions a minimum of thirty (30) calendar days prior to the end of the affected service period.

11.2.4 If the COUNTY has requested significant modifications or changes in the general scope, extent or character of the Project, the time or performance of the ENGINEER'S services shall be adjusted equitably.

The undersigned officers and/or agents of the parties hereto are the properly authorized officials and have the necessary authority to execute this Agreement on behalf of the parties hereto, and each party hereby certifies to the other that any necessary resolutions extending said authority have been duly passed and are now in force and effect.

KAUFMAN COUNTY, TEXAS

_____
Jakie Allen, County Judge

ENGINEERING FIRM

_____
by: Lucas Bathurst, PE
Vice President

Acting by and through the authority of
the Kaufman County Commissioners Court

Attest:

_____
County Clerk

Approved as to Form:

_____
Assistant District Attorney

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of $_____ to accomplish and pay the obligation of Kaufman County under this contract.

_____
Kaufman County Auditor

EXHIBIT A

CSJ: TBD
FM 741 at US 175
KAUFMAN COUNTY

The Engineer shall provide engineering services required for the preparation environmental documents and plans, specifications and estimates (PS&E) and related documents, for the replacement of the FM 741 at US 175 bridge in Kaufman County. These services may include, but are not limited to, roadway and bridge design, hydrologic and hydraulic design, traffic signal design, utility adjustment coordination, utility engineering investigation, utility engineering, survey and geotechnical data collection. The total length of the project is 0.14 miles.

GENERAL REQUIREMENTS

1.1. Design Criteria.

The Engineer shall prepare all work in accordance with the latest version of applicable State's procedures, specifications, manuals, guidelines, standard drawings, and standard specifications or previously approved special provisions and special specifications, which include:

A. *PS&E Preparation Manual*, published by TxDOT;

B. *Roadway Design Manual*, published by TxDOT;

C. *Hydraulic Design Manual,* published by TxDOT;

D. *Bridge Design Manual – LRFD,* published by TxDOT;

E. *Texas Manual on Uniform Traffic Control Devices* (TMUTCD), published by TxDOT;

F. *Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges* (latest Edition), published by TxDOT;

G. other State approved manuals and guides.

When design criteria are not identified in TxDOT manuals, the Engineer shall notify the State and refer to the American Association of State Highway and Transportation Officials (AASHTO), *A Policy on Geometric Design of Highways and Streets*, (latest Edition).

The Engineer shall follow the State's District guidelines in preparing the PS&E package, in a form suitable for letting through the State's construction contract bidding and awarding process.

The Engineer shall identify, prepare exhibits and complete all necessary forms for each Design Exception and Waiver required within project limits prior to the 30% project completion submittal. The Engineer shall submit each exception and waiver to the State for coordination and processing of approvals. If subsequent changes require additional exceptions, the Engineer shall notify the State in writing as soon as possible after identification of each condition that may warrant a design exception or waiver.

1.2. Coordination.

The Engineer shall coordinate issues and communications with State's internal resource areas through the State's Project Manager. The State will communicate the resolution of issues and provide the Engineer direction through the State's Project Manager.

The Engineer shall notify the State and coordinate with adjacent engineers on all controls at project interfaces. The Engineer shall document the coordination effort, and each engineer shall provide written concurrence regarding the agreed project controls and interfaces. In the event the Engineer and the other adjacent engineers are unable to agree, the Engineer and each adjacent engineer shall meet jointly with the State for resolution. The State will have authority over the Engineer's disagreements and the State's decision will be final.

The Engineer shall prepare each exhibit necessary for approval by each railroad, utility, and other governmental or regulatory agency in compliance with the applicable format and guidelines required by each entity and as approved by the State. The Engineer shall notify the State in writing prior to beginning any work on any outside agency's exhibit.

1.3. Progress Reporting and Invoicing.

The Engineer shall invoice according to Function Code breakdowns shown in Attachment C – Services to be Provided by the Engineer, of this Contract for Engineering Services and Exhibit D – Fee Schedule, of this work authorization. The Engineer shall submit each invoice in a format acceptable to the State. With each invoice, the Engineer shall include a completed Projected vs. Actual Invoices form.

The Engineer shall submit a monthly written progress report to the State's Project Manager regardless of whether the Engineer is invoicing for that month. The Engineer's written progress report must describe activities during the reporting period; activities planned for the following period, problems encountered, and actions taken to remedy them; list of meetings attended; and overall status, including a per cent complete by task.

The Engineer shall prepare a design time schedule using the latest version of Primavera software or any State-approved programs. The schedules shall indicate tasks, subtasks, critical dates, milestones, deliverables, and review requirements in a format that depicts the interdependence of the various items. The Engineer shall provide assistance to State personnel in interpreting the schedule. The Engineer shall schedule milestone submittals at 30%, 60%, 95% and final project completion phases. The Engineer shall advise the State in writing if the Engineer is not able to meet the scheduled milestone review date.

Once the project goes to letting, the Engineer shall deliver all electronic files within 30 days of written request in conformance with the latest version of Attachment G – Computer Graphics Files for Document and Information Exchange.

Final payment is contingent upon the State's receipt and confirmation by the State's Project Manager that the electronic files run and are formatted in accordance with Attachment G - Computer Graphics Files for Document and Information Exchange, of this contract and all review comments are addressed.

The Engineer shall prepare a letter of transmittal to accompany each document submittal to the State. At a minimum, the letter of transmittal must include the State's Control-Section-Job (CSJ) number, the highway number, County, project limits, State's contract number, and State's work authorization number.

1.4. Traffic Control.

The Engineer shall provide all planning, labor, and equipment to develop and to execute each Traffic Control Plan (TCP) needed by the Engineer to perform services under each work authorization. The Engineer shall comply with the requirements of the most recent edition of the *TMUTCD*. The Engineer shall submit a copy of each TCP to the State for approval prior to commencing any work on any State roadway. The Engineer shall provide all signs, flags, and safety equipment needed to execute the approved TCP. The Engineer shall notify the State in writing 24 hours in advance of executing each TCP requiring a lane closure and shall have received written concurrence from the State prior to beginning the

lane closure. The Engineer's field crew shall possess a copy of the approved TCP on the job site at all times and shall make the TCP available to the State for inspection upon request. The Engineer shall assign charges for any required traffic control to the applicable function code.

1.5. Right-of-Entry.
The Engineer shall notify the State and secure permission to enter private property to perform any surveying, environmental, engineering, or geotechnical activities needed off State right-of-way. In pursuance of the State's policy with the general public, the Engineer shall not commit acts which would result in damages to private property and the Engineer shall make every effort to comply with the wishes and address the concerns of affected private property owners. The Engineer shall contact each property owner prior to any entry onto the owner's property and shall request concurrence from the State prior to each entry.

1.6. Level of Effort.
For this work authorization, the Engineer shall base the level of effort at each phase on the prior work developed in earlier phases without unnecessary repetition or re-study. As directed by the State, the Engineer shall provide written justification regarding whether or not additional or repeated level of effort of earlier completed work is warranted, or if additional detail will be better addressed at a later stage in the project development.

1.7. Quality Assurance (QA) and Quality Control (QC).
The Engineer shall provide peer review at all levels. For each deliverable, the Engineer shall have some evidence of their internal review and mark-up of that deliverable as preparation for submittal. A milestone submittal is not considered complete unless the required milestone documents and associated internal red line mark-ups are submitted. The State's Project Manager may require the Engineer to submit the Engineer's internal mark-up (red lines) or comments developed as part the Engineer's quality control step. When internal mark-ups are requested by the State in advance, the State, at its sole discretion, may reject the actual deliverable should the Engineer fail to provide the evidence of quality control. The Engineer shall clearly label each document submitted for quality assurance as an internal mark-up document.

The Engineer shall perform QA and QC on all survey procedures, field surveys, data, and products prior to delivery to the State. If, at any time, during the course of reviewing a survey submittal it becomes apparent to the State that the submittal contains errors, omissions, or inconsistencies, the State may cease its review and immediately return the submittal to the Engineer for appropriate action by the Engineer. A submittal returned to the Engineer for this reason is not a submittal for purposes of the submission schedule.

1.8. Use of the State's Standards.
The Engineer shall identify and insert as frequently as is feasible the applicable, current State's Standard Details, District Standard Details, or miscellaneous details that have been approved for use in the plans. The Engineer shall sign, seal, and date each Standard and miscellaneous detail if the Standard selected has not been adopted for use in a District. The Engineer shall obtain approval for use of these details during the early stages of design from the State Project Manager or designated State Area Engineer. In addition, these details shall be accompanied by the appropriate general notes, special specifications, special provisions, and method of payment. The Engineer shall retain the responsibility for the appropriate selection of each Standard identified for use within its design.

1.9. Organization of Plan Sheets.
The PS&E shall be complete and organized in accordance with the latest edition of the TxDOT *PS&E Preparation Manual*. The PS&E package shall be suitable for the bidding

and awarding of a construction contract, and in accordance with the latest State's policies and procedures, and the District's PS&E Checklist.

1.10. Organization of Design Project Folder and Files (Electronic Project Files).
The Engineer shall organize the electronic project files in accordance with the State's File Management System (FMS) format. With the approval of the State, the Engineer may maintain the project files in the State's ProjectWise Work Areas.

1.11. Limited Access to State's Transportation Project Lifecycle Management Systems (TxDOTCONNECT).
The Engineer or Engineering Coordinator shall receive limited access to the State's Transportation Project Lifecycle Management Systems to update responsible engineer information, develop project construction cost estimates, build specification lists, and seal construction cost estimates.

The following security roles are available for consultants in the current Transportation Project Lifecycle Management Systems:

Work Performed in Solution	Required License	Security Role
Update Responsible Engineer Information Develop Construction Cost Estimate Build Specifications Lists Seal Project Estimate	Consultant Registered Professional Engineer (PE)	Professional Engineer - Consultant
Update Responsible Engineer Information Develop Construction Cost Estimate Build Specifications Lists	Consultant does not have to be a PE	Engineer's Estimate Coordinator - Consultant

When requested by the State, the Engineer or Coordinator shall sign the required TxDOT forms to be issued a TxDOT network User ID. After the TxDOT User ID is issued, the Engineer or Coordinator shall request access to the Transportation Project Lifecycle Systems.

1.12. State-Controlled Waters.
The placement of a new structure or modification of an existing structure(s) within State-Controlled waters will require confirmation that said structure(s) lie within the General Land Office (GLO) state owned land and whether the crossing is tidally influenced or not. Consequently, the Engineer shall request, as early in the design process as possible, that the State determine whether the proposed improvements are found within the tidal GLO, is a submerged GLO property, or a non-tidal GLO property. The State may request assistance from the Engineer to prepare an exhibit demonstrating the location of the proposed improvements on the GLO State Owned Map for the project location of an assigned State's District.

1.13. Underground excavation.
If necessary, the Engineer shall contact the Texas Excavation Safety System, Inc. (DIGTESS) or call telephone number 811 to have underground utilities marked prior to digging holes for right of way monuments, utility engineering investigation, geotechnical investigation, or other purposes. The Engineer shall separately contact utilities that are not a part of the DIGTESS organization. The Engineer shall maintain documentation of all notification calls. The Engineer shall comply with Texas' excavation laws.

1.14. Preventative Measures to Prevent the Spread of Oak Wilt Disease Contamination. The Engineer shall take the following preventive measures while cutting, pruning, or removing oak trees in counties which have confirmed cases of oak wilt disease or when directed by the State:

A. When possible, employ alternative methods instead of pruning or cutting oak trees.

B. When possible, perform necessary pruning and cutting of healthy trees during January or February when sap beetles are least active.

C. Treat wounds with pruning paint in oak wilt disease infected counties to discourage insects, especially during warm weather.

D. Sterilize all pruning tools between each use on each tree with either Lysol spray or a 70 percent rubbing alcohol solution.

E. Dispose of the tree cuttings by burning, burying, or another approved method.

1.15. Personal Protective Equipment (PPE).

A. The Engineer shall, and shall require its subcontractors to:

1. Provide personal protective equipment (PPE) to their personnel.
2. Provide business vehicles for their personnel, and
3. Require their personnel to use PPE and drive only business vehicles while performing work on or near roadways.

B. The PPE must meet all:

1. Current standards set by the Occupational Safety and Health Administration (OSHA) and
2. TxDOT requirements (e.g., safety glasses, Type 3 (TY 3) pants for night work).

C. Each business vehicle must be clearly marked with the Engineer's business name, or the name of the appropriate subcontractor, such that the name can be identified from a distance.

1.16. Training Requirements.

A. Each key staff member of the Engineer's project team that is performing or overseeing design or plan review tasks must complete the Environmental Management System (EMS) e-Learning courses prescribed by the State prior to working on the project. The required training for key staff members on the design project team is listed on the EMS training matrix, which may be accessed at: https://ftp.txdot.gov/pub/txdot-info/env/ems/070-04-fig.pdf.

The courses listed on the EMS training matrix are e-learning (online), unless otherwise noted as classroom learning. Information about these online courses may be accessed at: https://www.txdot.gov/inside-txdot/division/environmental/ems-courses.html.

The Engineer shall ensure that each key staff member of the Engineer's project team that will be performing or overseeing design or plan review tasks has completed the required training listed on the EMS training matrix prior to working on the project. In addition, the Engineer shall ensure that the required training is repeated by each key staff member of the project team based on the repeat requirements stated in the EMS training matrix.

B. Deliverables for Training Requirements:

The Engineer shall provide a list, signed by the Engineer's Project Manager that includes the following:

1. The names and titles of all key staff personnel performing or overseeing design or plan review tasks
2. The names of the training courses completed by each person on the list
3. The completion dates for the training courses completed by each person on the list

The Engineer shall update this list and resubmit it to the State any time new key staff personnel are assigned to the project team and any time training is repeated by key staff personnel on the project.

1.17. Information Resources and Security Requirements.
Engineer (as "Contractor") shall perform its work in accordance with Attachment I, Information Resources and Security Requirements. A Contractor-Related Entity might create, access, transmit, store, or use Public TxDOT data in a Contractor-Related Entity Environment. Contractor shall ensure that Contractor-Related Entity Environments comply with the TxDOT Low Security Baseline.

GENERAL

2.1. Engineer Designees.
The Engineer is responsible for designating and providing the services of the following individuals or entities:

A. Utility Coordinator is the individual or entity performing Utility-related Services that are not required to be performed by a licensed engineer under Texas law.

B. Utility Engineer is the individual or entity performing Utility-related Services that are required to be performed by a licensed engineer under Texas law.

2.2. Ensure.
As used below, "ensure" means to make certain that something has happened or will happen and includes an obligation to deploy the appropriate level of engineering or other technical expertise, consistent with the complexity, cost, and level of risk associated with a task. Ensure does not require the completion of any task assigned to a separate entity under any other agreement.

GENERAL SURVEY STANDARDS

In this Attachment, the term Surveyor means the firm (prime provider or subprovider) that is providing the surveying services shown in this scope.

The Engineer shall ensure that the following general standards for survey work are followed for Function Codes 130 and 150:

Unless otherwise indicated, any reference in this attachment to a manual, specification, policy, rule or regulation, or law means the version in effect at the time the work is performed. TxDOT manuals are available at: http://onlinemanuals.txdot.gov/manuals/.

All surveys must meet or exceed all applicable requirements and standards provided by: (1) Professional Land Surveying Practices Act, (2) General Rules of Procedures and Practices promulgated by the Texas Board of Professional Engineers and Land Surveyors (TBPELS), and (3) TxDOT *Survey Manual*. The Surveyor shall perform all work in an organized and professional manner. All surveys are subject to the approval of the State.

The Surveyor shall use TxDOT's *ROW Preliminary Procedures for Authority to Proceed Manual* and TxDOT *Survey Manual* as the basis for the format and preparation of all right of way (ROW) documents produced, including ROW maps, written parcel descriptions, parcel plats, and other ROW work products, unless otherwise specified by the State.

Unless otherwise directed by the State, the Surveyor shall use (1) the North American Datum of 1983 (NAD83), Texas Coordinate System of 1983 (State Plane Coordinates) applicable to the zone or zones in which the work is performed, with values in U.S. survey feet, as the basis for all horizontal coordinates derived and (2) the datum adjustment currently in use by TxDOT.

Project or surface coordinates must be calculated by applying a combined adjustment factor (CAF) to State Plane Coordinate values. If provided by the State, the Surveyor shall use a project specific CAF.

Elevations must be based on the North American Vertical Datum 88 (NAVD88), unless otherwise specified by the State.

All work using the Global Positioning System (GPS), whether primary control surveys or other, must meet or exceed the requirements provided by the TxDOT *Survey Manual* to the order of accuracy specified in the categories listed below or in a work authorization. If the order of accuracy is not specified in this attachment or in a work authorization, the work must meet or exceed the order of accuracy specified in the publication listed in this paragraph.

All conventional horizontal and vertical control surveys must meet or exceed the order of accuracy specified in the TxDOT *Survey Manual* unless specified otherwise in this contract.

All boundary determination surveys, whether for ROW acquisition, ROW re-establishment, or other boundary needs, must meet or exceed the accuracy specified in the TxDOT *Survey Manual* unless specified otherwise in this contract.

The State may authorize the Surveyor to use an Unmanned Aircraft System (UAS) to perform services under this contract. The use of UAS is regulated by the Federal Aviation Administration (FAA). All UAS operators must comply with Federal Aviation Administration (FAA) regulations and the TxDOT *Unmanned Aircraft System (UAS) Flight Operations and User's Manual*.

The survey data must be fully compatible with the State's computer system and with programs in use by the State at the time of the submission, without further modification or conversion. The current programs used by TxDOT are: Microsoft Word, Bentley MicroStation, Bentley OpenRoads civil design system, Bentley OpenBridge Designer, Excel, and ESRI ArcGIS. Data collection programs must be compatible with the current import formats allowed by OpenRoads Designer and be attributed with current feature codes. These programs may be replaced at the discretion of the State. The versions of Bentley CONNECT Edition software currently in use by the State, including MicroStation, OpenRoads, and OpenBridge, can be found online at https://www.txdot.gov/business/resources/design-tools-training/bentley-disclaimer/bentley-connect-data.html.

Drawing sizes are defined, based on American National Standards Institute (ANSI) standard paper sizes, as follows: A-size means 8.5 inches by 11.0 inches, B-size means 11.0 inches by 17.0 inches, C-size means 17.0 inches by 22.0 inches, and D-size means 22 inches by 34.0 inches.

Variations from these software applications or other requirements listed above shall only be allowed if requested in writing by the Surveyor and approved by the State.

The Surveyor shall perform quality control/quality assurance on all procedures, field surveys, data, and products prior to delivery to the State. The State may also require the Surveyor to review the survey work performed by others. If, at any time, during the course of reviewing a submittal of any item it becomes apparent to the State that the submittal contains a substantial number of errors, omissions, and inconsistencies, the State may cease its review and return the submittal to the Surveyor immediately for appropriate corrective action. A submittal returned to the Surveyor for this reason is not a submittal for purposes of the submission schedule.

The standards for services that are not boundary-related but that relate to surveying for engineering projects may be determined by the construction specifications, design specifications, or as specified by the State.

TASK DESCRIPTIONS AND FUNCTION CODES

The Engineer shall categorize each task performed to correspond with the Function Codes (FC) and Task Descriptions.

FUNCTION CODE 102 (110) – FEASIBILITY STUDIES

ROUTE AND DESIGN STUDIES

110.1. Data Collection and Field Reconnaissance

The Engineer shall collect, review, and evaluate data described below. The Engineer shall notify the State in writing whenever the Engineer finds disagreement with the information or documents:

A. Data, if available, from the State, including "as-built plans", existing schematics, right-of-way maps, Utility Engineering Investigation mapping, existing cross sections, existing planimetric mapping, environmental documents, existing channel and drainage easement data, existing traffic counts, accident data, bridge inspection records, Project Management Information system (PMIS) data, identified endangered species, identified hazardous material sites, current unit bid price information, and current special provisions, special specifications, and standard drawings.

B. Documents for existing and proposed development along proposed route from local municipalities and local ordinances related to project development.

C. Utility plans and documents from appropriate municipalities and agencies.

D. Flood plain information and studies from the Federal Emergency Management Agency (FEMA), the United States Army Corps of Engineers (USACE), local municipalities, and other governmental agencies.

E. Conduct field reconnaissance and collect data including a photographic record of notable existing features.

F. Right-of-Entry (ROE). Engineer shall draft the ROE package (cover letter, ROW form, and attachments) and submit to the State for the State's review. Upon approval of the ROE package by the State, the Engineer shall then mail out the ROE package to required properties (up to ten property owners). The Engineer shall prepare ROE

request letters for the State, for parcels within adjacent and along the proposed Right-of-Way (ROW) of the Build Alternative. The Engineer shall attempt a maximum of three rounds of ROE mail outs to non-responders.

110.2. Design Criteria.

The Engineer shall develop the roadway design criteria based on the controlling factors specified by the State (i.e. 4R, 3R, 2R, or special facilities), by use of the funding categories, design speed, functional classification, roadway class, and any other set criteria as set forth in the TxDOT *PS&E Preparation Manual*, TxDOT *Roadway Design Manual*, TxDOT *Bridge Design Manual*, TxDOT *Hydraulic Design Manual*, and other deemed necessary State approved manuals. In addition, the Engineer shall prepare the Design Summary Report (DSR) and submit it electronically. The Engineer shall obtain written concurrence from the State prior to proceeding with a design if any questions arise during the design process regarding the applicability of State's design criteria.

110.3. Preliminary Cost Estimates.

The Engineer shall develop a preliminary cost estimate using the Average Low Bid Unit Price. The Engineer shall estimate the total project cost including preliminary engineering, final engineering, right-of-way (ROW) acquisition, environmental compliance and mitigation, construction, utility relocation, and construction engineering inspection (CEI).

110.4. Design Concept Conference.

In accordance with the TxDOT *Project Development Process Manual*, the Engineer, in cooperation with the State, shall plan, attend, and document the Design Concept Conference (DCC) to be held prior to the 30 percent milestone submittal. In preparation for the DCC, the Engineer shall complete a DSR to serve as a checklist for the minimum required design considerations. The conference will provide for a brainstorming session in which decision makers, stakeholders, and technical personnel may discuss and agree on:

A. Roadway and drainage design parameters

B. Engineering and environmental constraints

C. Project development schedule

D. Other issues as identified by the State

E. Any identified Design Exceptions and Waivers

F. Preliminary Construction Cost Estimate

110.5. Geotechnical Borings and Investigations.

A. The Engineer shall determine the location of proposed soil borings for bridge design, embankment and abutment slope stability, and ITS pole foundation design in accordance with the latest edition of the TxDOT *Geotechnical Manual*. The State will review and provide comments for a boring layout submitted by the Engineer showing the general location and depths of the proposed borings. Once the Engineer receives the State's review comments, the Engineer shall perform soil borings (field work), soil testing, and prepare the boring logs in accordance with the latest edition of the TxDOT *Geotechnical Manual* and local TxDOT district's procedures and design guidelines.

B. The Engineer shall perform all geotechnical work in accordance with the latest version of the TxDOT *Geotechnical Manual*. The Engineer shall perform all testing in accordance with TxDOT's Test Procedures, which are available at https://www.txdot.gov/business/resources/testing.html. American Society for Testing Materials (ASTM) test procedures can be used only in the absence of the State's

procedures. All soil classification shall be done in accordance with the Unified Soil Classification System.

The Engineer shall perform Standard Penetration Test (SPT) in accordance with Standard Test Method for Standard Penetration Test and Split-Barrel Sampling of Soils, American Association of State Highway and Transportation Officials (AASHTO) T 206 or American Society for Testing Materials (ASTM) D1586. The Engineer shall:

1. Provide calibration of the automatic hammer to determine specific hammer system efficiencies in general accordance with ASTM D4633, Standard Test Method for Energy Measurement for Dynamic Penetrometers.
2. Provide to the State, hammer weight, drop height, and efficiency signed and sealed by a professional engineer at the beginning of this contract and every 12-months thereafter, on the geotechnical report or independently.

C. The Engineer shall perform soil borings, rock coring, testing and analysis to include slope stability analysis and foundation design recommendations for along proposed, bridges, abutments, embankments, ITS poles, and any temporary soil retaining systems.

D. The Engineer shall provide a signed, sealed, and dated geotechnical report that contains, but is not limited to, soil boring locations, boring logs, laboratory test results, generalized subsurface conditions, ground water conditions, piezometer data, analyses and recommendations for settlement and slope stability of the earthen embankments, design and construction recommendations for drilled shafts including skin friction and point bearing, uplift resistance, lateral load parameters, and downdrag potential.

E. The Engineer shall provide a subsurface profile including the following information for each layer:

1. Particle Size Analysis (Tex-110-E) including:
    a. Grain Size (percent passing No. 200 sieve)
    b. Soil type based on grain dimensions of cohesionless materials
2. Liquid Limit (Tex-104-E) as required for clayey soils
3. Plastic Limit (Tex-105-E) as required for clayey soils
4. Plasticity Index (Tex-106-E) as required for clayey soils
5. USCS Soil Classification (Tex-142-E) as required for clayey soils
6. Unconfined compressive strength (in soil and rock)

F. The Engineer shall sign, seal and date soil boring sheets to be used in the PS&E package. The preparation of soil boring sheets must be in accordance with the latest edition of the State's Geotechnical Manual.

110.6. Traffic and Operational Analysis.

The Engineer shall review and analyze traffic data (including percent trucks, design hourly volume, and directional distribution), existing roadway features (including ramp locations, weaving sections, number of lanes, offset to obstructions, lane widths, frontage road operations, and intersection operation and geometry), traffic flow patterns, and transit and traffic operations. The Engineer shall conduct capacity analysis studies for designated locations and sections of roadway and make recommendations for improving traffic flow. The Engineer shall use the HCM to analyze and make appropriate recommendations. The

analysis must be done for existing/base year, opening year, design year (opening+20 year), and interim year (if needed) for existing and future conditions. Results of this analysis must be incorporated into the schematic design. The Engineer shall develop and submit to TxDOT a traffic and operational analysis report summarizing all analysis performed. If microsimulation is used, the Engineer shall develop and calibrate an existing condition traffic model. The calibration memo must be included in the traffic analysis report. The analysis must be performed using the latest versions of TxDOT-approved software (e.g., HCS, Synchro, VISSIM, CORSIM, SIDRA).

110.7. Safety Analysis.

The Engineer shall review and analyze historical crash data for latest 3 to 5 full calendar years (i.e., January 1 to December 31, inclusive) with respect to crash characteristics such as severity, crash types, frequency, rates, patterns, clusters, and their relationship to crash contributing factors. The purpose of the historical crash analyses is to determine safety performance of the existing conditions to understand any safety issues within the study area.

Predictive, or quantitative safety analysis, involves using HSM-based methods that use safety performance functions (SPFs) and crash modification factors (CMFs) to estimate anticipated change in crashes from existing condition to the proposed design. The predictive safety analysis must be done for no-build and build conditions for design year. The purpose of the predictive safety analysis is to compare the safety performance of the no-build and build alternatives to help determine the preferred alternative and to determine the countermeasures, if necessary, to improve safety. Predictive safety analysis must be performed using HSM based tools including Interactive Highway Safety Design Model (IHSDM), Enhanced Interchange Safety Analysis Tools (ISATe), HSS, or other tools acceptable to the State. The Engineer shall develop and submit to the State a safety analysis report summarizing all analysis performed.

FUNCTION CODE 120 (120) – SOCIAL/ECON/ENV STUDIES

SOCIAL, ECONOMIC, AND ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT

120.1. Informal Meetings.

The Engineer shall provide technical assistance with, preparation of exhibits for, and minutes of informal meetings that are either requested by the public to discuss the pending impacts to neighborhoods and businesses due to roadway shutdowns, detours, and access restrictions or as deemed necessary by the State. This is not to be confused with the formal public meetings held during the National Environmental Policy Act (NEPA) process during schematic approval for Public Involvement. It is not anticipated that the Engineer's participation will be needed for the NEPA process. Assistance (exhibits, attendance, etc.) may be required for a formal public meeting or public hearing associated with schematic approval work.

120.2. Environmental Permits Issues and Commitments (EPIC) Sheets.

The Engineer shall complete the latest version of the EPIC sheets per information provided by the State. These sheets must be signed, sealed, and dated by the Engineer as indicated in signature block. The final sheets must be submitted for the State's signature.

120.3. Environmental Documentation Preparation.

Each environmental service provided by the Engineer must have a deliverable. Deliverables must summarize the methods used for the environmental services and the results achieved. The summary of results must be sufficiently detailed to provide

satisfactory basis for thorough review by the State, FHWA, and (where applicable) other agencies with regulatory oversight. All deliverables must meet regulatory requirements for legal sufficiency and adhere to the requirements for reports enumerated in the State's National Environmental Policy Act of 1969 (NEPA) Memorandum of Understanding (MOU).

A. Submission of Deliverables

1. Deliverables must consist of documentation to support a categorical exclusion (CE) determination or the preparation of an Environmental Assessment (EA). Technical reports and documentation must be prepared to support the applicable environmental classification (e.g. CE or EA). Additionally, an Open-Ended (d) list Categorical Exclusion Classification Request Form must be prepared to classify the project as an Open Ended (d) list CE, if needed.
    a. WPD FormsWater Resources Technical Report
        i. Clean Water Act Section 303(d) and Other Impaired Waters
        ii. Clean Water Act, Section 404
    b. EPIC Sheets
    c. Biological Resources Technical Report
        i. Biological Evaluation Form
        ii. TPWD Tier I Site Assessment
    d. Hazardous Materials Initial Site Assessment Technical Report
    e. Cultural Resources Technical Report
        i. Archeological Background Study
        ii. Historic Structures Project Coordination Request
    f. Stormwater Permits

2. All deliverables must comply with all applicable state and federal environmental laws, regulations, procedures, and TxDOT's Environmental Compliance Toolkits, documentation requirements, and templates.

3. Exemptions - The following activities are not anticipated. Should TXDOT Dallas District require the following deliverables, a supplemental work authorization would be required.
    a. Right of Entry process
    b. Impacts to Protected Lands
        i. Section 4(f) impacts
        ii. Section 6(f) Impacts
        iii. TPWD Chapter 26 Evaluation
    c. Archeological Permit Application
    d. Archeological Survey and Report
    e. Historic Structures Research Design
    f. Historic Structures Survey and Report
    g. Traffic Noise Evaluation Technical Report
    h. Air Quality Analysis Technical Report
    i. Floodplain impact report

120.4. Environmental Exhibits. – Omitted

120.5. Cut and Fill Exhibits. – Omitted

FUNCTION CODE 130 (130) – RIGHT-OF-WAY DATA

RIGHT-OF-WAY (ROW) DATA, UTILITY ENGINEERING INVESTIGATION, AND UTILITY COORDINATION

130.1. Right of Way Map Review.

The Engineer shall review and evaluate the proposed or existing right-of-way map to verify that all construction staging, and alignment considerations have been taken into account. The Engineer shall make every effort to prevent detours and utility relocations from extending beyond the proposed right-of-way lines. The Engineer shall notify the State in writing if it is necessary to obtain additional construction easements or rights-of-entry and shall provide justification for such action. The Engineer shall be responsible for identifying and delineating any temporary construction easements in areas outside the State's Right of Way. The State will secure the necessary legal instruments.

130.2. Right-of-Way Surveys (15.1.1). OMITTED

130.3. Right of Way Mapping – Traditional ROW Map. OMITTED

FUNCTION CODE 135(135) – RIGHT-OF-WAY – UTILITY ACTIVITIES

135.1 Definitions.

In this attachment, the following definitions apply.

1. "Utility Coordinator" means the individual or entity performing utility-related services that are not required to be performed by a licensed professional engineer under Texas law. The Engineer remains ultimately responsible and shall ensure that the work is performed as required.
2. "Utility Engineer" means the individual or entity performing utility-related services that are required to be performed by a licensed professional engineer under Texas law. The Engineer remains ultimately responsible and shall ensure that the work is performed as required.
3. "Ensure" means to make certain that something has happened or will happen, and includes an obligation to deploy the appropriate level of engineering or other technical expertise, consistent with the complexity, cost, and level of risk associated with a task. The term ensure does not require the completion of any task assigned to another entity by the State under a separate agreement.

135.2 Utility Engineering Investigation Requirements.

Utility engineering investigation includes utility investigations subsurface and above ground prepared in accordance with ASCE/CI Standard 38-02and Utility Quality Levels.

1. Utility Quality Levels (QL)

   Utility Quality Levels are defined in cumulative order (least to greatest) as follows:

   a. Quality Level D - Quality level value assigned to a utility segment or utility feature after a review and compilation of data sources such as existing records, oral recollections, One-Call markings, and data repositories.

b. Quality Level C - Quality level value assigned to a utility segment or utility feature after surveying aboveground (i.e., visible) utility features and using professional judgement to correlate the surveyed locations of these features with those from existing utility records.

c. Quality Level B - Quality level value assigned to a utility segment or subsurface utility feature whose existence and position is based upon appropriate surface geophysical methods combined with professional judgment and whose location is tied to the project survey datum. Horizontal accuracy of utilities is 18" (including survey tolerances) unless otherwise indicated for a specific segment of the deliverable. Quality Level B incorporates quality levels C and D information. A composite plot is created.

d. Quality Level A – Quality level value assigned to a portion (x, y, and z geometry) of a point of a subsurface utility feature that is directly exposed, measured, and whose location and dimensions are tied to the project survey datum. Other measurable, observable, and judged utility attributes are also recorded (per District Best Practices). The utility location must be tied to the project survey datum with an accuracy of 0.1 feet (30-mm) vertical and to 0.2 feet (60-mm) horizontal. As test holes may be requested up front or during the project, test holes done prior to completion of QL D, C, or B deliverables must be symbolized on the QL B deliverable with a call out indicating test hole's number. This is in addition to and not in lieu of the test hole.

2. Utility Engineering Investigation Methodology Requirements

   The Engineer shall:

   a. Provide utility designating services. Designate means to indicate the horizontal location of underground utilities by the application and interpretation of appropriate non-destructive surface geophysical techniques and reference to established survey control. Designating (Quality Level B) services are inclusive of Quality Levels C and D.

      The Engineer and State acknowledge that the line sizes of designated utility facilities detailed on the deliverable will be from the best available records and that an actual line size is normally determined from a test hole vacuum excavation. A note must be placed on the designate deliverable only that states "lines sizes are from best available records". All above-ground utility feature locations must be included in the deliverable to the State. This information must be provided in the latest version of OpenRoads civil design system used by the State. The electronic file will be delivered on USB flash drive or as required by the State. A hard copy is required and must be signed, sealed, and dated by the engineer overseeing the utility engineering (Utility Engineer). When requested by the State, the designated utility information must be overlaid on TxDOT's design plans.

   b. Provide utility locate (test hole) services. Locate means the process used to obtain precise horizontal and vertical position, material type, condition, size, and other data that might be obtainable about the utility facility and its surrounding environment through exposure by non-destructive excavation techniques that ensures the integrity of the utility facility. Subsurface utility locate (test hole) services (Quality Level A) are inclusive of Quality Levels B, C, and D. Quality Level A test holes that do not encounter an expected utility will not be considered complete until discussed with the TxDOT Project Manager.

Include the following data on an appropriately formatted test hole data sheet that has been sealed and dated by the Engineer:

(1) Elevation of top of utility tied to the datum of the furnished plan

(2) Minimum of two benchmarks utilized. Elevations must be within an accuracy of 15mm (.591 inches) of utilized benchmarks

(3) Elevation of existing grade over utility at test hole location

(4) Horizontal location referenced to project coordinate datum

(5) Outside diameter of pipe or width of duct banks and configuration of non-encased multi-conduit systems

(6) Utility facility material

(7) Utility facility condition

(8) Pavement thickness and type

(9) Coating/wrapping information and condition

(10) Unusual circumstances or field conditions

Excavate test holes in such a manner as to prevent any damage to wrappings, coatings, cathodic protection, other protective coverings, and features. Water excavation can only be utilized with written approval from the appropriate TxDOT district office.

Be responsible for any damage to the utility during the locating process. In the event of damage, the Utility Engineer must stop work, notify the appropriate utility facility owner, the State, and appropriate regulatory agencies. The regulatory agencies include: the Railroad Commission of Texas and the Texas Commission on Environmental Quality. The Utility Engineer must not resume work until the utility facility owner has determined the corrective action to be taken. The Engineer shall be liable for all costs involved in the repair or replacement of the utility facility.

Back fill all excavations with appropriate material and methods approved in writing by the State's project manager. The Engineer is responsible for the integrity of the backfill and surface restoration.

Provide complete restoration of work site and landscape to equal or better condition than before excavation. If a work site and landscape is not appropriately restored, the Engineer shall return to correct the condition at no extra charge to the State.

Plot utility location position information to scale and provide a comprehensive utility plan signed and sealed by the responsible engineer. This information must be provided in the latest version of MicroStation and be fully compatible with the OpenRoads civil design system used by the State. The electronic file must be delivered on USB flash drive or as required by the State. When requested by the State, the locate information must be over laid on TxDOT's design plans.

c. Maintain a utility layout in the current approved version of OpenRoads Civil Design system used by TxDOT. This layout must include all existing utilities that are to remain in place or be abandoned, and all adjusted utilities. This layout must be utilized to monitor the necessity of relocation and evaluate alternatives.

d. Provide utility engineering investigation information in the latest version of MicroStation OpenRoads Designer and MicroStation Connect Edition that are implemented at TxDOT at the time the work authorization is executed.

e. Ensure that there is no conflict between the utility management plan, utility certifications, and special provisions.

f. The Utility Engineer's activities must conform with those specified under Texas Administrative Code, Title 43, Part 1, Chapter 21, Subchapter C, Section 21.37, relating to the specified utility types, eligibility requirements, agreements, and approvals.

3. Utility Adjustment Coordination Requirements

The Engineer is responsible for communicating, coordinating, and conducting meetings with any one, combination, or all of the following: individual utility companies, local public agencies (LPAs), State's project manager, TxDOT utility staff, TxDOT right of way project delivery, design engineer, maintenance staff, and area office staff. The Engineer's utility coordination duties include, but are not limited to, preparation or assisting others in preparing joint use agreements, assisting utility companies with utility permit submittals, and assisting with documentation for advance funding agreements (AFAs).

a. The Engineer shall perform utility coordination activities with involved utility owners, their consultants, and the State to achieve timely project notifications. In conjunction with formal coordination meetings, the Engineer must create meeting minutes, create and update the utility conflict matrix, create action item log, perform document control, and assist with conflict analysis and resolution. The Utility Coordinator must act as the "Responsible Party" as indicated in the State's – Utility Cooperative Management Process and Right of Way Utility Adjustment Subprocess (See the TxDOT *ROW Utilities Manual*, Chapter 2).

b. Utility Acknowledgement: For this project, all non-reimbursable utility adjustments must be submitted with the Form 1082 Utility Installation Request (UIR) or must be submitted using the current program used by TxDOT such as Right-of-Way Utility and Leasing Information System (RULIS). The term "permit" refers to "Form 1082". The Utility Coordinator must furnish the appropriate form to the utility company. The Utility Coordinator must obtain Form 1082 and adjustment plans from the utility for the Utility Coordinator and Utility Engineer to review.

c. State Utility Procedure (SUP): When applicable, the Engineer shall follow the procedures found in Chapter 8, Section 6 in the TxDOT *ROW Utilities Manual*.

d. Local Utility Procedure (LUP): When applicable, the Engineer shall follow the procedures found in Chapter 8, Section 8 in the TxDOT *ROW Utilities Manual*.

e. All documentation to be included in utility agreements must conform to the requirements of 23 C.F.R. subpt. 645.A.

f. The Engineer shall not perform engineering of relocation plans relative to a particular utility agreement under this contract as this is a cost of right of way that is subsidiary to the specific utility agreement.

g. The Engineer is responsible for ensuring utility agreements comply with UAR (43 Tex. Admin. Code §§ 21.31-21.57) and Buy America (23 U.S.C. § 313; 23 C.F.R. § 635.410; and Tex. Transp. Code § 223.045).

4. Utility Adjustment Monitoring and Verification Requirements - Omitted

FUNCTION CODE 145 (145, 164) – MANAGING CONTRACTED/DONATED PE

PROJECT MANAGEMENT AND ADMINISTRATION

145.1. Project Management and Coordination.

The Engineer, in association with the State's Project Manager shall be responsible for directing and coordinating all activities associated with the project to comply with State policies and procedures, and to deliver that work on time.

The Engineer shall coordinate all subconsultant activity to include quality of and consistency of plans and monthly progress reports. The Engineer shall coordinate with necessary local entities.

The Engineer shall:

A. Prepare monthly written progress reports for each project.

B. Develop and maintain a detailed project schedule to track project conformance to Exhibit C, Work Schedule, for this work authorization. The schedule submittals shall be hard copy and electronic format.

C. Meet on a scheduled basis with the State to review project progress.

D. Prepare, distribute, and file both written and electronic correspondence

E. Prepare and distribute meeting minutes.

F. Document phone calls and conference calls as required during the project to coordinate the work for various team members.

FUNCTION CODE 160 (150) – ROADWAY DESIGN

DESIGN SURVEYS

150.1. Design Survey

A. Definitions

1. Design Survey (15.2.1)

   A design survey gathers data in support of transportation systems design. A design survey includes the research, field work, analysis, computation, and documentation necessary to provide detailed topographic (3-dimensional) mapping of a project site (e.g. locating existing ROW, surveying cross-sections or developing data to create cross-sections and digital terrain models, horizontal and vertical location of utilities and improvements, collecting details of bridges and other structures, review of ROW maps, establishing control points).

B. Technical Requirements for Design Surveys

1. Design surveys must be performed under the supervision of a RPLS currently registered with the TBPELS.

2. All control must meet the of accuracy requirements of the State.

The Surveyor shall comply with the standards of accuracy for control traverses provided in the TxDOT *Survey Manual* or the TSPS *Manual of Practice for Land Surveying in the State of Texas*, as may be applicable.

3. Short traverse procedures used to determine horizontal and vertical locations must meet the following criteria:
    a. Short traverses must begin and end on horizontal and vertical ground control as described above.
    b. Required horizontal accuracy (unless otherwise stated):
        (1) Bridges and other roadway structures: less than 0.1 feet.
        (2) Utilities and improvements: less than 0.2 feet.
        (3) Cross-sections and profiles: less than 1 foot.
        (4) Bore holes: less than 3 feet.
    c. Required vertical accuracy:
        (1) Bridges and other roadway structures: less than 0.02 feet.
        (2) Utilities and improvements: less than 0.1 feet.
        (3) Cross-sections and profiles: less than 0.2 feet.
        (4) Bore holes: less than 0.5 feet.

C. Data Requirements for Design and Construction Surveys
    1. Planimetric DGN files must be fully compatible with the version of the MicroStation graphics platform currently used by TxDOT without further modification or conversion.
    2. Electronically collected and processed field survey data files must be fully compatible with TxDOT's computer systems without further modification or conversion. All files must incorporate only those feature codes currently being used by TxDOT.
    3. Digital terrain models (DTMs) must be fully compatible with the version of the Bentley OpenRoads civil design system currently used by TxDOT without further modification or conversion. All DTM must be fully edited to provide a complete digital terrain model with all necessary break lines.

150.2. Design Survey (15.2.1)

Existing survey data has been provided by TxDOT. Scope of survey is limited to establishing vertical control, retracing the existing ROW, locating bore holes and providing up to two weeks of field work for supplemental survey for the following tasks:

A. Tasks to be Completed – Design Surveys

If required to supplement existing survey, the Surveyor shall perform one or more Design Surveys. Design Survey tasks include the following:

1. Collect data to create cross-sections and DTMs.
2. Locate existing utilities.
3. Locate existing improvements.
4. Provide details of existing bridge structures, including bridge limits, bents, columns, retaining walls, and natural ground elevations.

5. Locate details of existing drainage features including culverts, manholes, retention and detention ponds, flowlines, and associated features.
6. Omitted.
7. Review existing ROW maps and locate the existing ROW.
   a. Review existing ROW maps

      The Surveyor shall review ROW maps prepared by others for completeness using the current schematic and the checklist provided by the TxDOT district.

   b. Locate existing ROW

      The Surveyor shall resurvey the existing ROW where it is necessary to update or redefine ROW lines. All standard surveying procedures must be adhered to including record research and, recovering existing monuments. The Surveyor shall prepare an abstract map.
8. Locate boreholes.
9. Omitted
10. Verify the condition and usefulness of existing control points including verification of the values. Establish additional control as needed. Tie to other control points in the project vicinity including points established by the National Geodetic Survey (NGS), the Federal Emergency Management Agency (FEMA), and any other local entities as directed by the State.
11. Update existing control information and prepare new survey control data sheets, as directed by the State to be included in the construction plan set as described below:
    a. The Surveyor shall prepare, sign, seal, and date a survey control index sheet and horizontal and vertical control sheet(s) to be inserted into the plan set.
    b. The survey control index sheet provides an overview of the primary project control and must include:
       (1) An unscaled vicinity map showing the general location of the project in relation to nearby towns or other significant cultural features.
       (2) A scaled project map showing the extents of the project and the location of the primary control points. The map must show street networks, selected street names, control point identification, and significant cultural features necessary to provide a general location of the primary control.
       (3) A table containing the primary control point values including the point number, northing, easting, elevation, stationing, and stationing offset values.
       (4) Map annotation including a graphic scale bar, north arrow, and standard TxDOT title block. The title block must contain a section for the district name, county, highway, and CSJ number. The title block must also contain a section for a Texas registered engineer to sign, seal, and date the sheet to include the following statement, "The survey control information has been accepted and incorporated into this PS&E." The required format of the survey control index sheet can be downloaded from the TxDOT website.
       (5) In the title block under the heading "Notes", identification of the horizontal and vertical datum on which the primary control is based with

the date of the current adjustment, the surface adjustment factor used, and unit of measure. The Surveyor shall include a note stating that the coordinates are State Plane and a notation specifying either grid or surface adjusted coordinates.

c. The Surveyor shall prepare horizontal and vertical control sheets providing detailed information about the construction, location, and monumentation of the primary control, which must include:

(1) An unscaled location map for each primary control point showing the location of the monument in relation to physical features located in the vicinity. The location map must include a north arrow, the monument designation, the monument northing, easting, and elevation.

(2) Directly below the location map, a text description of the monument including size, material, and construction followed by a description of the location of the monument starting with the county and state followed by a description suitable to locate the monument on the ground.

(3) Map annotation including a graphic scale bar, north arrow, and a standard TxDOT title block. The title block must contain a section for the district name, county, highway, and CSJ number and contain a section for a Texas registered engineer to sign, seal and date the sheet to include the following statement, "The survey control information has been accepted and incorporated into this PS&E." The required format of the survey control index sheet can be downloaded from the TxDOT website.

(4) In the title block under the heading "Notes", identification of the horizontal and vertical datum on which the primary control is based with the date of the current adjustment, the surface adjustment factor used, and unit of measure. The Surveyor shall include a note stating that the coordinates are either grid or surface adjusted coordinates.

150.3. Deliverables for Design Surveys

The Surveyor shall prepare and submit the deliverables as specified in individual work authorizations for design surveys and construction surveys. The deliverables might be any combination of the following:

A. Digital terrain models (DTM) and the triangular irregular network (TIN) files in a format acceptable by the State.

B. Maps, plans, or sketches prepared by the Surveyor showing the results of field surveys.

C. Computer printouts or other tabulations summarizing the results of field surveys.

D. Digital files or media acceptable by the State containing field survey data (ASCII data files).

E. Maps, plats, plans, sketches, or other documents acquired from utility companies, private corporations, or other public agencies, the contents of which are relevant to the survey.

F. Field survey notes, as electronic and hard copies.

G. TxDOT Form 2462 for each primary and secondary control point. This form must be submitted in printed format on letter (i.e., A-size) and submitted electronically in PDF format.

H. A digital and hard copy of all computer printouts of horizontal and vertical conventional traverses, GPS analysis and results, and survey control data sheets.

I. All GEOPAK files and OpenRoads files.

J. Survey reports in a format requested by the State.

FUNCTION CODE 160 (160) – ROADWAY DESIGN

ROADWAY DESIGN CONTROLS

The Engineer shall inform the State of changes made from previous initial meetings regarding each exception, waiver, and variance that may affect the design. The Engineer shall cease all work under this task until the exceptions, waivers, and variances have been resolved between the Engineer and the State unless otherwise directed by the State to proceed. The Engineer shall identify, prepare exhibits, and complete all necessary forms for Design Exceptions and Waivers within project limits prior to the 30% Submittal. These exceptions shall be provided to the State for coordination and processing of approvals.

160.1. Geometric Design.

A. Refine Schematic. - Omitted

B. Develop Preliminary Geometric Project Layout.

The Engineer shall develop a preliminary geometric project layout (Layout) and a preliminary 3D corridor model for the full length of the project to be reviewed and approved by the State prior to the Engineer proceeding with the 30% milestone submittal package.

The Layout must consist of a planimetric file of existing features and the proposed improvements within the existing and any proposed ROW. The Layout must also include the following features: existing and proposed ROW, existing and proposed horizontal and vertical alignment and profile grade line, cross culverts, lane widths, cross slopes, ditch slopes, pavement structure, clear zone, dedicated right turn lanes, corner clips, retaining walls (if applicable), guard rail (if applicable), and water surface elevations for various rainfall frequencies, etc. Existing major subsurface and surface utilities must be shown on the layout.

The Engineer shall develop the proposed alignment to avoid the relocation of existing utilities as much as possible. The Engineer shall consider Americans with Disabilities Act (ADA) requirements when developing the layout. The layout must be prepared in accordance with the current TxDOT *Roadway Design Manual*. The Engineer shall provide horizontal and vertical alignment of the project layout in English units for main lanes and cross streets. Minor alignment alternatives must be considered to provide for an optimal design. The project layout must be coordinated with the State and adjacent Engineers, if any. The Engineer shall also provide proposed and existing typical sections with the profile grade line (PGL), lane widths, cross slopes, ROW lines, ditch shapes, pavement structures, and clear zones depicted, etc.

The 3D corridor model must be created using Bentley's OpenRoads tools. The 3D corridor model must have enough details to verify the feasibility of the proposed design.

Prior to proceeding with the final preliminary geometric layout, the Engineer shall also present to the State for review and approval, alternatives for the design (e.g. flush or raised curb median) with recommendations and cost estimates for each alternative. The Engineer shall also attend all necessary meetings to discuss the outcome of the evaluations of the study.

160.2. Roadway Design.

The Engineer shall use Bentley's OpenRoads 3D Design technology in the design and preparation of the roadway plan sheets, using the version of MicroStation OpenRoads Designer and/or MicroStation Connect Edition that are implemented at TxDOT at the time the work authorization is executed. The versions of Bentley CONNECT Edition software currently in use by the State, including MicroStation, OpenRoads, and OpenBridge, can be found online at https://www.txdot.gov/business/resources/design-tools-training/bentley-disclaimer/bentley-connect-data.html. However, TxDOT may approve the use of other versions.

The Engineer shall provide roadway plan and profile drawings using CADD standards as required by the State. The drawings must consist of a planimetric file of existing features and files of the proposed improvements. The roadway base map must contain line work that depicts existing surface features obtained from the schematic drawing. Existing major subsurface and surface utilities must be shown if requested by the State. Existing and proposed right-of-way lines must be shown. Depending on the width of the pavement, the plan view and profile view may be shown on separate sheets or the same sheets for main lanes, frontage roads, and direct connectors.

A. The plan view must contain the following design elements:

1. Calculated roadway centerlines for mainlanes, ramps, cross streets, and frontage roads, as applicable. Horizontal control points must be shown. The alignments must be calculated using OpenRoads horizontal geometry tools.
2. Pavement edges for all improvements (mainlanes, direct connectors, ramps, cross streets, driveways, and frontage roads, if applicable).
3. Lane and pavement width dimensions.
4. The geometrics of ramps, auxiliary lanes, and managed lanes.
5. Proposed structure locations, lengths, and widths.
6. Direction of traffic flow on all roadways. Lane lines and arrows indicating the number of lanes must also be shown.
7. Drawing horizontal scale must be 1" =100'
8. Control of access line, ROW lines, and easements.
9. Begin and end superelevation transitions and cross slope changes.
10. Limits of riprap, block sod, and seeding.
11. Existing utilities and structures.
12. Benchmark information.
13. Radii call outs, curb location, Concrete Traffic Barrier (CTB), guard fence, crash safety items and *American with Disabilities Act Accessibility Guidelines (ADAAG)* compliance items.

B. The profile view must contain the following design elements:

1. Calculated profile grade line (PGL) for proposed mainlanes (cite direction), direct connectors, ramps, cross streets, and frontage roads, if applicable. Vertical curve data, including "K" values must be shown. The profiles must be calculated using OpenRoads vertical geometry tools.
2. Existing and proposed profiles along the proposed centerline of the mainlanes, the outside shoulder line of ramps, and the outside gutter line of the designated (north, south, east or west) bound frontage roads.
3. Omitted.
4. Calculated vertical clearances at grade separations and overpasses, taking into account the appropriate superelevation rate, superstructure depth and required clearance.
5. The location of interchanges, mainlanes, grade separations and ramps, and cross sections of any proposed or existing roadway, structure, or utility crossing.
6. Drawing vertical scale must be 1" =10'.

160.3. Typical Sections.

The Engineer shall prepare typical sections for all proposed and existing roadways and structures. Typical sections must include width of travel lanes, shoulders, outer separations, border widths, curb offsets, managed lanes, and ROW. The typical section must also include PGL, centerline, pavement design, longitudinal joints, side slopes, sodding or seeding limits, concrete traffic barriers and sidewalks, if required, station limits, common proposed and existing structures including retaining walls, existing pavement removal, riprap, limits of embankment and excavation, etc.

160.4. Mainlane and Frontage Road Design.

The Engineer shall provide the design of mainlanes with full shoulders, frontage roads, entrance and exit ramps, managed lanes, and auxiliary lanes. The design must be consistent with the approved schematic or refined schematic and the current TxDOT *Roadway Design Manual*.

160.5. Interchange. - Omitted

160.6. Cross Streets.

The Engineer shall provide an intersection layout detailing the pavement design and drainage design at the intersection of each cross street. The layout must include the horizontal and vertical alignments, curb returns, geometrics, transition length, stationing, pavement, drainage details, and *ADAAG* compliance items. The Engineer shall design for full pavement width to the ROW and provide a transition to the existing roadway.

160.7. Cut and Fill Quantities.

The Engineer shall develop an earthwork analysis to determine cut and fill quantities and provide final design cross sections at 100 feet intervals. Cross sections must be created from the 3D corridor model and must be delivered in the standard TxDOT format on 11"x17" sheets or roll plots and electronic files. The Engineer shall provide all templates and corridors used to generate the design cross sections. Cross sections and quantities must include existing pavement removals. Annotation must include, at a minimum, existing and proposed ROW, side slopes (front & back), profiles, etc.

The Engineer shall submit the number of sets of drawings specified in the work authorization at the 30%, 60%, and 90%, and final submittals, respectively. The Engineer shall submit the current OpenRoads generated 3D corridor model for each submittal.

160.8. Plan Preparation.

The Engineer shall prepare roadway plans, profiles, and typical sections for the proposed improvements. Prior to the 30% submittal, the Engineer shall schedule a workshop to review profiles, OpenRoads 3D corridor models, and cross-sections with the State. The profile and cross sections must depict the 2, 5, 10, 25, 50, 100, and 500-year (if available) water surface elevations. The drawings must provide an overall view of the roadway and existing ground elevations with respect to the various storm design frequencies for the length of the project. This will enable the State to determine the most feasible proposed roadway profile. The Engineer shall not proceed with developing subsequent submittals until the State has approved the proposed profiles, 3D corridor models, and cross sections. Exhibit B-Services to be Provided by the Engineer for each work authorization will provide the specific services (e.g. mainlanes, frontage roads, ramps, etc.) to be designed for the identified project. The Engineer shall base the project level of effort on the services specified in the work authorization. The roadway plans must consist of the applicable types of sheets necessary for the project and be organized in the sequence as described in the TxDOT *PS&E Preparation manual*.

160.9. Wetlands Information. - Omitted

160.10. Pavement Design.

A. Incorporate Pavement Design Developed by the State

When required in the work authorization, the Engineer shall incorporate the pavement design developed and provided by the State into the project.

160.11. Pedestrian and Bicycle Facilities.

The Engineer shall coordinate with the State to incorporate pedestrian and bicycle facilities as required or shown on the project's schematic. All pedestrian and bicycle facilities must be designed in accordance with the latest *ADAAG*, the *Texas Accessibility Standards (TAS)*, and the AASHTO *Guide for the Development of Bicycle Facilities*.

FUNCTION CODE 160 (161) – ROADWAY DESIGN

DRAINAGE DESIGN

161.1. Data Collection.

The Engineer shall provide the following data collection services:

A. Conduct field inspections to observe current conditions and the outfall channels, the cross-drainage structures, drainage easements, the tributary channel, and land development projects that contribute flow to the tributary. Document field inspections with digital photos.

B. Collect available applicable data including GIS data and maps, site survey data, construction plans, previous reports and studies, and readily available rainfall history for the area. Particular sources of data collected must include, but are not limited to, the State, County, and Federal Emergency Management Agency (FEMA).

C. Collect available Flood Insurance Rate Maps (FIRMs), Flood Insurance Study (FIS) study data, and best available hydraulics and hydrology (H&H) models for the area.

D. Review survey data and coordinate any additional surveying needs with State.

E. Present existing drainage structures in a 3D corridor OpenRoads model.

F. Meet with local government officials to obtain historical flood records. Interview local residents or local government employees to obtain additional high-water information if available. Obtain frequency of road closure and any additional high-water information from the District Maintenance office.

G. Submit a letter report to the State Project Manager detailing completion of data collection.

161.2. Hydrologic Studies.

The Engineer shall provide the following services:

A. Incorporate in the hydrologic study an evaluation and selection of appropriate hydrologic method including comparison of the results of two or more methods, and calibration of results against measured data, where appropriate or needed.

B. Calculate discharges using appropriate hydrologic methods and as approved by the State.

C. Consider the pre-construction and post-construction conditions in the hydrologic study, as required in the individual work authorization.

D. Obtain the drainage area boundaries and hydrologic parameters such as impervious covered areas, and overland flow paths and slopes from appropriate sources including, but not limited to, topographic maps, GIS modeling, construction plans, and existing hydrologic studies. The Engineer shall not use existing hydrologic studies without assessing of their validity. If necessary, obtain additional information such as local rainfall from official sites such as airports.

E. Include, at a minimum, the "design" frequency specified in the work authorization and the 1% Annual Exceedance Probability (AEP) storm frequency. The report must include the full range of frequencies (50%, 20% 10%, 4%, 2%, 1%, and 0.2% AEP).

F. Compare calculated discharges to the effective FEMA flows. If calculated discharges are to be used in the model instead of the effective FEMA flows, full justification must be documented.

161.3. Bridge Drainage Crossing Hydraulic Design and Documentation. - Omitted

161.4. Storm Drains.

The Engineer shall provide the following services:

A. Design and analyze storm drains using software as approved by the State.

B. Size inlets, laterals, trunk line, and outfall. Develop designs that minimize the interference with the passage of traffic or incur damage to the highway and local property in accordance with the TxDOT *Hydraulic Design Manual*, District criteria, and any specific guidance provided by the State. The Engineer shall select storm drain design as directed in the work authorization.

C. Determine hydraulic grade line starting at the outfall channel for each storm drain design. Use the design water surface elevation of the outfall as the starting basis (tailwater) for the design of the proposed storm sewer system.

D. Calculate manhole head losses. Compute manhole head losses as per FHWA's HEC-22.

E. Limit discharge into existing storm drains and existing outfalls to the capacity of the existing system, which shall be determined by the Engineer. Evaluate alternate flow routes or detention, if necessary, to relieve system overload. Determine the amount of the total detention storage to control storm drain runoff for the design frequency based

on hydrograph routing for the full range of frequencies (50%, 20% 10%, 4%, 2%, 1%, and 0.2% AEP), as well as a rough estimate of the available on-site volume. When oversized storm drains are used for detention, the Engineer shall evaluate the hydraulic gradeline throughout the whole system, within project limits, for the design frequency or frequencies. The Engineer shall coordinate with the State any proposed changes to the detention systems. The State will assess the effects of such changes on the comprehensive drainage studies.

F. Identify areas requiring trench protection, excavation, shoring, and de-watering.

161.5. Cross-Drainage Structures.

The Engineer shall provide the following services:

A. Determine drainage areas and flows for cross culvert drainage systems.

B. Determine the sizing of the drainage crossings. The scope may include extending, adjusting, or replacing non-bridge class culvert crossing or crossings as specified in the work authorization. Develop designs that minimize the interference with the passage of traffic or cause damage to the highway and local property in accordance with the TxDOT *Hydraulic Design Manual*, District criteria, and any specific guidance provided by the State. Cross drainage design shall be performed using HY-8 or HEC RAS.

161.6. Temporary Drainage Facilities.

The Engineer shall develop plans for all temporary drainage facilities necessary to allow staged construction of the project and to conform with the phasing of adjacent construction projects without significant impact to the hydraulic capacity of the area. Drainage area maps are not required for temporary drainage.

161.7. Scour Analysis. - Omitted

161.8. Drainage Report.

The Engineer shall develop a drainage report and submit the draft drainage report to the State for review. The drainage report must include applicable hydrologic and hydraulic models such as HY-8, OpenRoads for Drainage Utility (ORD-DU), HEC-RAS, HEC-HMS, XP-SWMM, and other applicable modeling tools. This modeling must evaluate existing versus proposed conditions. The drainage report must also include, but is not limited to, the following: drainage area maps, drainage outfall descriptions, tailwater selection and descriptions, storm water detention facilities, recommendations for mitigation of impacts, scour analysis, and pump station analysis and design including structural, mechanical, and electrical design.

The Engineer shall address the State's review comments on the draft drainage report and update the drainage report accordingly. The Engineer shall submit a final drainage report that is signed and sealed by a Professional Engineer to the State.

161.9. Environmental Permits. - Omitted

161.10. Plans, Specifications and Estimates (PS&E) Development for Hydraulics.

The Engineer shall provide the following services:

A. Prepare the PS&E package in accordance with the applicable requirements of the State's specifications, standards, and manuals, including the TxDOT *PS&E Preparation Manual*. Include the following sheets and documents, as appropriate:

1. Hydrologic Data Sheets
2. Hydraulic Data Sheets

3. Scour Data Sheets (if applicable)
4. Omitted
5. Storm Drain Plan/Profile Sheets
6. Stormwater Management Pond Layouts
7. Stormwater Management Pond Details
8. Roadway Plan & Profile Sheets including profile grade line of parallel ditches, if applicable
9. All other relevant sheets

B. Omitted

C. Identify areas requiring trench protection, excavation, shoring, and de-watering.

D. Prepare drainage area maps.

E. If applicable, prepare plan and profile sheets for storm drain systems and outfall ditches.

F. Select any necessary standard details from State or District's list of standards for items such as inlets, manholes, junction boxes, and end treatments.

G. Prepare details for non-standard inlets, manholes, and junction boxes.

H. Prepare drainage details for outlet protection, outlet structures, and utility accommodation structures.

I. Identify pipe strength requirements.

J. Prepare drainage facility quantity summaries.

K. Identify potential utility conflicts and, if feasible, design to mitigate or avoid those identified conflicts.

L. Consider pedestrian facilities, utility impacts, driveway grades, retaining walls, and concrete traffic barrier drainage impacts.

M. Identify existing ground elevation profiles at the ROW lines on storm sewer plan and profile sheets.

N. Omitted

O. Omitted

P. Develop a 3D model of the proposed drainage structures using the Drainage Utility (DU) capabilities of the OpenRoads Product.

Q. Develop layouts for the following:

1. Omitted
2. Outfall channels within existing ROW.
3. Omitted
4. Omitted

FUNCTION CODE 160 (162) – ROADWAY DESIGN

SIGNING, PAVEMENT MARKINGS, AND SIGNALIZATION (PERMANENT)

162.1. Signing.

The Engineer shall prepare drawings, specifications, and details for all signs. The Engineer shall coordinate with the State (and other Engineers as required) for overall temporary, interim, and final signing strategies and placement of signs outside contract limits.

The Engineer shall:

A. Prepare sign detail sheets for large guide signs showing dimensions, lettering, shields, borders, corner radii, etc., and shall provide a summary of large and small signs to be removed, relocated, or replaced.

B. Designate the shields to be attached to guide signs.

C. Illustrate and number the proposed signs on plan sheets.

D. Select each sign foundation from State Standards.

162.2. Pavement Markings.

The Engineer shall detail both permanent and temporary pavement markings and channelization devices on plan sheets. The Engineer shall coordinate with the State (and other Engineers as required) for overall temporary, interim, and final pavement marking strategies. The Engineer shall select Pavement markings from the latest State standards.

The Engineer shall provide a 3D corridor model with the proposed pavement marking stenciled onto the model.

The Engineer shall provide the following information on signing and pavement marking layouts:

A. Roadway layout

B. Center line with station numbering

C. Designation of arrow used on exit direction signs

D. Culverts and other structures that present a hazard to traffic

E. Location of utilities

F. Existing signs to remain, be removed, be relocated, or be replaced

G. Proposed signs (illustrated, numbered, and showing sign size)

H. Proposed overhead sign bridges to remain, to be revised, removed, relocated, or replaced

I. Proposed overhead sign bridges, indicating location by plan

J. Proposed markings (illustrated and quantified) which include pavement markings, object markings, and delineation

K. Quantities of existing pavement markings to be removed

L. Proposed delineators, object markers, and mailboxes

M. The location of interchanges, mainlanes, grade separations, frontage roads, and ramps

N. The number of lanes in each section of proposed highway and the location of changes in numbers of lanes

O. Right-of-way limits

P. Direction of traffic flow on all roadways

162.3. Traffic Signal Warrant Studies.

The Engineer shall prepare a traffic signal warrant study to support its recommendation for the continuous activation of an existing traffic signal or a proposed traffic signal based on projected volumes. Each warrant study must include addressing pedestrian signals along with obtaining both traffic and pedestrian counts.

The Engineer shall implement each proposed traffic signal improvement within existing State ROW unless otherwise approved by the State. The Engineer shall refer to latest version of the *TMUTCD*, the TxDOT *Traffic Signals Manual*, and the TxDOT roadway (ramp) and traffic standards for work performed for either temporary or permanent traffic signals. The Engineer shall develop and include a timing plan for each signal improvement.

Traffic signal warrant study is limited to the intersection of FM 741 and US 175 South Frontage Rd.

162.4. Traffic Signals.

Based upon the results of the Traffic Signal Warrant Studies, the Engineer shall identify and prepare traffic signal plans for all warranted traffic signals. The Engineer shall confirm the power source for all signals and coordinate with the appropriate utility agency. Traffic Signal Plans must be signed and sealed by a Texas Registered Professional Engineer. The Engineer shall develop all quantities, general notes, and specifications and incorporate the appropriate agency standards required to complete construction. Traffic signal poles, fixtures, signs, and lighting must be designed per the Green Ribbon Report recommendations and standards.

Proposed Traffic Signal to be installed at the intersection of FM 741 and US 175 South Frontage Rd. Traffic signal modifications to be made at the intersection of FM 741 and US 175 North Frontage Rd as needed.

The Engineer shall provide the following information in the traffic signal plans:

A. Layout

1. Estimate and quantity sheet
    a. List of all bid items
    b. Bid item quantities
    c. Specification item number
    d. Bid item description and unit of measure
2. Basis of estimate sheet (list of materials)
3. General notes and specification data
4. Condition diagram
    a. Highway and intersection design features
    b. Roadside development
    c. Traffic control including illumination
5. Plan sheet(s)
    a. Existing traffic control that will remain (signs and markings)

b. Existing utilities
c. Proposed highway improvements
d. Proposed installation
e. Proposed additional traffic controls
f. Proposed illumination attached to signal poles
g. Proposed power pole source

6. Notes for plan layout
7. Phase sequence diagram(s)
   a. Signal locations
   b. Signal indications
   c. Phase diagram
   d. Signal sequence table
   e. Flashing operation (normal and emergency)
   f. Preemption operation (when applicable)
   g. Contact responsible Agency to obtain interval timing, cycle length and offset
8. Construction detail sheets(s)
   a. Poles (State standard sheets)
   b. Detectors
   c. Pull box and conduit layout
   d. Controller foundation standard sheet
   e. Electrical chart
9. Marking details (when applicable)
10. Aerial or underground interconnect details (when applicable)

B. General Requirements
   1. Contact local utility company to confirm power source
   2. Prepare governing specifications and special provisions list
   3. Prepare project estimate
   4. Conduct traffic counts and prepare Traffic Signal Warrant Studies for all proposed and existing traffic signals at designated locations

C. Summary of Quantities
   1. Small signs tabulation
   2. Large signs tabulation including all guide signs

D. Sign Detail Sheets
   1. All signs except route markers
   2. Design details for large guide signs
   3. Dimensioning (letters, shields, borders, etc.)

4. Designation of shields attached to guide signs

FUNCTION CODE 160 (163) – ROADWAY DESIGN

MISCELLANEOUS (ROADWAY)

163.1. Utility Engineering

Utility Engineering includes the identification of utility conflicts, coordination, compliance with the UAR, and resolution of utility conflicts. The Engineer shall coordinate all activities with the State, or the State's designee, to facilitate the orderly progress and timely completion of the State's design phase.

A. Coordination of Engineering Activities

1. Utility Layout:

   The Utility Engineer must maintain a utility layout in the current approved version of OpenRoads Civil Design system used by the State. This layout must include all existing utilities which are to remain in place or be abandoned, and all adjusted utilities. This layout must be utilized to monitor the necessity of relocation and evaluate alternatives. The Utility Engineer must utilize the layout of existing utilities as prepared, if available, and make a determination of the following:

   a. Facilities in conflict with the proposed project that are to be relocated.

   b. Facilities to be removed or abandoned in place.

   c. Facilities to remain in service and in place because of roadway design adjustments and meeting the current UAR.

   d. If there are additional facilities, not shown in the SUE documents, which require relocation, the Engineer shall coordinate this information with the State immediately upon discovery.

   e. For facilities with unknown owner that require utility accommodation, the Utility Engineer must coordinate with State for possible hot tap and removal. Engineer shall furnish all documents and exhibits to State. When construction sequence and adjustments will be included in the PS&E package, the Utility Engineer must coordinate with the PS&E design engineer for the construction sequence in regard to the utility adjustments. The Utility Engineer must include this in the PS&E package.

B. Public and Individual Meetings with Utility Companies

As required, to facilitate utility conflict identification and resolution, the Engineer shall:

1. Establish contact with all existing utilities within and adjacent to the project limits and set up utility coordination meetings to discuss concepts and options for construction.
2. Schedule all utility coordination meetings and ensure compatibility with the schedule of the State.
3. Set agenda for all coordination meetings as directed by the State.
4. Establish and promote the desired agenda and methodologies for utility construction within the project limits. Typical strategies include AMA. The agenda and methodologies may allow the construction of utilities as a part of the highway contract.

5. Orientation: Prepare and present, in collaboration with the State, instruction and orientation sessions as required. The instruction must introduce the SUE Plans, the proposed utility layout, processes, demonstrate the technology, and facilitate the preparation of work orders, billings, and contract related documentation as it pertains to utility adjustment work.
6. Initial Project Meeting following the NOPC: Attend an initial meeting and an on-site inspection (when appropriate) to ensure familiarity with existing conditions and project requirements and prepare a written report of the meeting.
7. Work Plan: Develop a work plan including a list of the tasks to be performed, a schedule, and an estimate. The work plan must satisfy the requirements of the project and must be approved by the State prior to commencing work.
8. Progress Meetings: Meet with the State and, if applicable, design consultants, periodically to coordinate the work effort and resolve problems. Prepare a written report of all progress meetings and provide the report to the State. During the progress meetings, the Utility Engineer must review:
    a. Activities completed since the last meeting
    b. Problems encountered
    c. Late activities
    d. Activities required by the next progress meeting
    e. Solutions for unresolved and/or anticipated problems
    f. Information or items required from other agencies/consultants

C. Review of Utility's Proposed Adjustments
1. Evaluate alternatives: The Utility Engineer must evaluate alternatives in the adjustment of utilities balancing the needs of both the State and the Utility. The Utility Engineer must use the AMA strategy as part of evaluating the alternatives.
2. Review estimates and schedules: The Utility Engineer must, with the assistance of the TxDOT district, review the utility adjustment estimates for reasonableness of cost and the timely scheduling of the adjustment.
3. The Utility Engineer must review plans for compliance with UAR, Buy America materials, and proposed location data.
4. The Utility Engineer must ensure that utility owners are receiving updates for project design development so that utility owners are reviewing the most current plans, quality and accuracy of utility adjustment data, as well as compliance of UAR, as it pertains to the plans. The responsibility for compliance, quality, and accuracy of utility adjustment plans will remain with the utility company.
5. The Utility Engineer must ensure compliance with the regulations of the most recent edition of the *TMUTCD*. The Utility Engineer must obtain approval from the State concerning the proposed method of handling traffic prior to allowing commencement of work.

D. The Engineer shall not provide services under this contract that are for the sole benefit of a party or parties other than the State. The Engineer shall not invoice the State for any such services.

E. The Engineer shall prepare signed and sealed proposed utility plans in the latest version of OpenRoads Civil Design system used by the State that can be overlaid (11" x 17") on the base file with drainage.

The Utility Engineer must:

1. Ensure all facilities conflicts have been resolved.
2. Ensure all stakeholders have concurred with the various alignments.
3. Establish the sequence of construction for all utility relocation work whether it is included as a part of the highway construction or not. Ensure that the sequence of work is included in the traffic control plan and incorporated in this contract time determination schedule.
4. Determine which utilities will be built as part of this contract.
5. Determine which facilities will be relocated prior to construction or during construction. The Utility Engineer is responsible for assisting in the creation and maintenance of the utility management plan.

F. The Engineer shall coordinate, and/or review PS&E for all utilities included in the construction contract.

G. Utility Engineering VFP-

End Result: Fully reviewed and approved engineering plans (done by utility owners) of constructible utility accommodations.

The Utility Engineer must:

1. Identify potential conflicts using the AMA process, the design, and SUE.
   a. Avoid – work with designers to avoid conflicts.
   b. Minimize – Cost analyzed of safe available options to minimize cost and project delay.
   c. Accommodate – NORA sent out and acknowledgement of receipt obtained.
2. Hold meetings with utilities requiring accommodation (NORA) to strategize and program the accommodation.
3. Document all activities.
4. Track all ROW acquisitions to assist with scheduling accommodations.
5. Review documentation and justifications for Utility Exceptions.

H. Deliverables:

The Engineer shall submit the following deliverables to the State:

1. Identification of utility conflicts.
2. Composite DGN file showing all utilities with abandoned, removed, and added utilities.
3. Documentation showing review of engineering plans created by utility owners to ensure compliance with UAR, Buy America, etc.
4. Scheduling of accommodation to minimize issues (downtime, etc.) while maximizing the use of resources (e.g. Traffic Control) in a manner consistent with overall project timelines.
5. Documentation showing that exceptions were reviewed for viability.

163.2. Retaining Walls and Miscellaneous Structures - Omitted

163.3. Traffic Control Plan, Detours, and Sequence of Construction.

The Engineer shall prepare Traffic Control Plans (TCP) including TCP typical sections, for the project. The Engineer shall complete Form 2229-Significant Project Procedures along with Page 4 of Form 1002, specifically titled Accelerated Construction Procedures. A detailed TCP must be developed in accordance with the latest edition of the *TMUTCD*. The Engineer shall implement the current Barricade and Construction (BC) standards and TCP standards as applicable. The Engineer shall interface and coordinate phases of work, including the TCP, with adjacent Engineers.

The Engineer shall:

A. Provide a written narrative of the construction sequencing and work activities per phase and determine the existing and proposed traffic control devices (regulatory signs, warning signs, guide signs, route markers, construction pavement markings, barricades, flag personnel, temporary traffic signals, etc.) to be used to handle traffic during each construction sequence. Show proposed traffic control devices for at-grade intersections during each construction phase (stop signs, flag personnel, signals, etc.). Show temporary roadways, ramps, structures (including railroad shoo-fly), and detours required to maintain lane continuity throughout the construction phasing. If temporary shoring is required, prepare layouts and show the limits on the applicable TCP.

B. Coordinate with the State in scheduling a Traffic Control Workshop and submittal of the TCP for approval by the Traffic Control Approval Team (TCAT). Assist the State in coordinating mitigation of impacts to adjacent schools, emergency vehicles, pedestrians, bicyclists, and neighborhoods.

C. Develop each TCP to provide continuous, safe access to each adjacent property during all phases of construction and to preserve existing access. Notify the State in the event existing access must be eliminated and receive approval from the State prior to elimination of any existing access.

D. Design temporary drainage to replace existing drainage disturbed by construction activities or to drain detour pavement. Show horizontal and vertical location of culverts and required cross sectional area of culverts.

E. Prepare each TCP in coordination with the State. The TCP must include interim signing for every phase of construction. Interim signing must include regulatory, warning, construction, route, and guide signs. Interface and coordinate phases of work, including the TCP, with the engineers that are responsible for the preparation of the PS&E for adjacent projects.

F. Maintain continuous access to abutting properties during all phases of the TCP. Develop a list of each abutting property along the roadway alignment. Prepare exhibits for and attend meetings with the public, as requested by the State.

G. Make every effort to prevent detours and utility relocations from extending beyond the proposed right-of-way lines. If it is necessary to obtain additional permanent or temporary easements and right-of-entry, notify the State in writing of the need and justification for such action. Identify and coordinate with all utility companies for relocations required.

H. Describe the type of work to be performed for each phase of the sequence of construction and any special instructions (e.g. storm drain, culverts, bridges, railing, illumination, signals, retaining walls, signing, paving surface sequencing or concrete placement, ROW restrictions, utilities, etc.) that this contractor should be made aware of, including limits of construction, obliteration, and shifting or detouring of traffic required prior to beginning the subsequent phase.

I. Include the work limits, the location of channelizing devices, positive barrier, location and direction of traffic, work area, stations, pavement markings, and other information deemed necessary for each phase of construction.

J. Identify and delineate any outstanding ROW parcels.

K. Omitted

L. Omitted

163.4. Temporary Traffic Signals and Illumination.

The Engineer shall immediately notify the State if the Engineer determines that an existing traffic signal or roadway illumination will be affected by the project. The Engineer shall address the adjustment or realignment of traffic signal heads and the use of detection for mainlanes and side streets on the plans as directed by the State. The Engineer shall obtain traffic movement counts to address any new timing plans to minimize the impact during construction and to determine the storage length needed for left and right turn movements. The Engineer shall address lighting of signalized intersections and shall coordinate with local utilities as approved by the State.

Temporary Traffic Signal to be installed at the intersection of FM 741 and US 175 South Frontage Rd and North Frontage Rd as needed. No temporary Illumination included in this scope.

163.5. Illumination.

The Engineer shall refer to the TxDOT *Highway Illumination Manual* and other deemed necessary State approved manuals for design of underpass safety lighting for the FM 741 bridge. The Engineer shall include safety lighting as part of each design on each flashing beacon and traffic signal. The Engineer shall provide a preliminary layout for initial review and approval by the State. The Engineer shall prepare circuit wiring diagrams showing the number of luminaires on each circuit, electrical conductors, length of runs, and service pole assemblies. Underpass lighting must be used on all structures within each project. The Engineer shall integrate existing illumination within the project limits into the proposed design. The Engineer shall coordinate with the State to determine the location of underpass lighting.

163.6. Storm Water Pollution Prevention Plans (SWP3).

The Engineer shall develop SWP3, on separate sheets from (but in conformance with) the TCP, to minimize potential impact to receiving waterways. The SWP3 must include text describing the plan, quantities, type, phase, and locations of erosion control devices and any required permanent erosion control.

163.7. Compute and Tabulate Quantities.

The Engineer shall provide the summaries and quantities within all formal submittals.

163.8. Special Utility Details (Water, Sanitary Sewer, etc.)

The Engineer shall develop special details to accommodate or adjust utilities. Prior to developing any special utility detail, the Engineer shall notify the State in writing regarding each utility conflict that may require an accommodation. As directed by the State, the Engineer shall coordinate with each utility to develop each special detail. The Engineer shall develop each utility detail or accommodation in compliance with the UAR. The Engineer shall prepare each plan sheet, detail sheet, special specification, special provision, and special note required to incorporate the details into the State's plans.

163.9. Miscellaneous Structural Details.

The Engineer shall provide necessary details required to supplement standard details.

163.10. Estimate.

The Engineer shall independently develop and report quantities necessary to construct this contract in standard State bid format at the specified milestones and final PS&E submittals. The Engineer shall prepare each construction cost estimate using Estimator or any approved method. The Engineer shall provide the estimate at each milestone submittal or in electronic format at the 95% and Final PS&E submittals per State's District requirement.

163.11. Contract Time Determination.

The Engineer shall prepare a detailed contract time estimate to determine the approximate time required for construction of the project in calendar and working days (based on the State standard definitions of calendar and working days) at the 95% and final PS&E milestone. The schedule must include tasks, subtasks, critical dates, milestones, deliverables, and review requirements in a format that depicts the interdependence of the various items and adjacent construction packages. The Engineer shall provide assistance to the State in interpreting the schedule.

163.12. Specifications and General Notes.

The Engineer shall identify necessary standard specifications, special specifications, special provisions, and the appropriate reference items.

163.13. Constructability Review.

The Engineer shall provide Independent Quality Review of the constructability of the PS&E sets.

The Engineer shall perform constructability reviews at major project design milestones (e.g. 30%, 60%, 90%, and final plan) to identify potential constructability issues and options that would provide substantial time savings during construction. The constructability review must be performed for all roadway and structural elements such as sequence of work and traffic control, drainage (temporary and permanent), Storm Water Pollution Prevention Plan (SWP3), Environmental Permits, Issues and Commitments (EPIC) addressed, identification of utility conflicts; ensuring accuracy and appropriate use of items, quantities, general notes, standard and special specifications, special provisions, contract time/schedule, standards; and providing detailed comments in an approved format. Reviews must be captured in a constructability log identifying areas of concern and potential conflict. The Engineer shall provide the results of all constructability reviews and recommendations to the State at major project design milestone submittals.

FUNCTION CODE 160 (165) – ROADWAY DESIGN

TRAFFIC MANAGEMENT SYSTEMS (PERMANENT)

165.1. Traffic Management.

The Engineer shall design and provide details as a part of the State's Intelligent Transportation System to be managed from DalTrans Traffic Management Center (TMC) or other TxDOT Transportation Management Center as specified in the work authorization. The design must include elements closed-circuit television cameras, wireless communication radios, and vehicle detection devices. The Engineer shall prepare the design and details including conduit and cable, support structures, control equipment, etc. necessary to implement the system. If applicable, design specifications for each project will

be defined in the work authorization. The Engineer shall also coordinate with the State Computerized Transportation Management Systems (CTMS) Section should the State have a computerized traffic management system under construction or in place and operating within the project limits.

The CTMS requirements will include the relocation of one (1) ITS Pole (and included CTMS equipment) to a new location as dictated by the plans. It is assumed that up to one (1) temporary ITS site will be included as required in order to maintain CCTV coverage and wireless communications in the area. No fiber optic communications are included in this design.

FUNCTION CODE 160 (170) – ROADWAY DESIGN

BRIDGE DESIGN

170.1. Bridge Layout.

A. The Engineer shall prepare a bridge layout plan sheet for the US 175 Underpass at FM 741. The Engineer shall determine the location of each soil boring needed for foundation design in accordance with the TxDOT *Geotechnical Manual*.

B. Prior to preparation of each bridge layout, the Engineer shall prepare a comparative cost analysis of bridge structures to determine:

1. The optimum bridge beams for vertical clearance over railroads, roadway, or waterways

C. The Engineer shall submit a bridge layout for each structure early in the plan preparation process to obtain approval from the State. The Engineer shall submit a 3D bridge model utilizing OpenBridge Modeler (OBM). When the 3D bridge model is referenced into the 3D corridor, the bridge shall align, both vertically and horizontally, in the bridge location of the 3D corridor. The 3D bridge model shall consist of 3D elements for slab, beams, abutments, wingwalls, caps, columns, and foundations. Quantities and geometry from OBM 3D bridge model shall be verified by other means. The Engineer shall comply with all relevant sections of the latest edition of the TxDOT *Bridge Design Manual - LRFD*, TxDOT *Bridge Project Development Manual*, TxDOT *Bridge Detailing Guide, and AASHTO LRFD Bridge Design Specifications*, and respective checklists. Each bridge layout sheet must include bridge typical sections, structural dimensions, abutment and bent locations, and superstructure and substructure types. The Engineer shall locate and plot all soil borings and utilities, show proposed retaining walls, and, for staged construction, indicate limits of existing bridge for removal and reconstruction.

170.2. Bridge Detail Summary.

The Engineer shall prepare total bridge quantities, estimates, and summary sheets for each bridge.

170.3. Bridge Structural Details.

The Engineer shall prepare each structural design and develop detailed structural drawings of all required details in compliance with above-listed manuals and guidelines. The Engineer shall assemble and complete all applicable State Standard Details sheets.

Additionally, the Engineer shall:

A. Perform calculations for design of bridge abutments;

B. Perform calculations for design of bridge interior bents;

C. Perform calculations for bridge slab design;

D. Perform calculations to determine elevations of bridge substructure and super structure elements;

E. Prepare necessary foundation details and plan sheets;

F. Prepare plan sheets for abutment design;

G. Prepare plan sheets for additional abutment details;

H. Prepare plan sheets for interior bent design;

I. Prepare framing plan and slab plan sheets;

J. Compute and prepare tables for slab and bearing seat elevations, dead load deflections, etc.;

K. Design beams and prepare beam design tables; and

L. Prepare special provisions and special specifications in accordance with the above-listed manuals and guidelines.

DESIGN DELIVERABLES

DELIVERABLES FOR PS&E DEVELOPMENT

The Engineer shall submit the following deliverables to the State:

DEL.1. Reports.

A. Letter Report - Omitted

B. Draft Hydraulic Report

The Engineer shall submit three copies of a draft Hydraulic Report for review and comment. The report must document and justify all data, boundary conditions, assumptions, methodologies, and results. The text, tables, exhibits, and appendices must document clearly and concisely the work performed and results found. The report must provide recommendations for critical review by the State. Such recommendations may include corrective actions by the State, corrective actions by others, or need for further detailed analysis such as an unsteady model analysis or the development of mitigation measures. The text, tables, exhibits, and appendices (including computer models) must be saved on a compact disc and included with each report.

C. Assume one round of comments will be provided by the State for draft reports. The Engineer shall address all State comments.

D. Final Hydraulic Report

The Engineer shall submit four originals of the finalized Hydraulic Report. The final report must be signed and sealed by a Professional Engineer.

DEL.2. Plans.

The Engineer shall provide the following information at each submittal:

A. Pre-30% Bridge and H&H Submittal - Preliminary Bridge Layout Review (PBLR)

1. A PDF set of 11" x 17" plan sheets of Preliminary Bridge Layouts.
2. Omitted.

3. Omitted
4. Omitted
5. Omitted
6. Omitted

B. 30% Plans Submittal
   1. A PDF set of 11" x 17" plan sheets for the State District Review.
   2. Estimate of construction cost.
   3. Engineer's internal QA and QC markup set.
   4. Form 1002 and Design Exceptions with existing and proposed typical sections, location map, and design exception exhibits.
   5. A Preliminary 3D corridor model, in the most current format, created using Bentley's OpenRoads tools, and with detail to verify the design of the 30% plan sheets.
   6. A preliminary 3D bridge model utilizing Bentley's OBM, and with detail to verify the design of the 30% plan sheets. When the 3D bridge model is referenced into the 3D corridor, the bridge shall align, both vertically and horizontally, in the bridge location of the 3D corridor.

C. Between 30% Submittal and 60% Submittal
   1. A PDF set of 11" x 17" bridge layouts for the State District review.
   2. Omitted
   3. Engineer's internal QA and QC marked up set.
   4. One set of a roll format TCP phasing layouts and significant project procedures form (State Form 2229) to present at the TCAT for the State review.
   5. One set of a roll format of illumination plan concept for State review.
   6. Omitted
   7. A preliminary 3D corridor model, in the most current format, created using Bentley's OpenRoads tools, and with detail to verify the design of the Bridge and Retaining Wall layouts.
   8. If applicable, a preliminary 3D bridge model utilizing Bentley's OBM, and with detail to verify the design of the Bridge and Retaining Wall Layouts.

D. 60% Plans Submittal
   1. A PDF set of 11" x 17" plan sets for the State District review.
   2. Estimate of construction cost.
   3. Engineer's internal QA and QC marked up set.
   4. One .pdf of plan sheets for TCP concept, and significant project procedures form (State Form 2229) to present at the TCAT for the State review.
   5. A preliminary 3D model, in the most current format, created using Bentley's OpenRoads tools, and with detail to verify the design of the 60% plan sheets. The level of detail of the surface and subsurface features will be at the direction of the State.

6. If applicable, a preliminary 3D bridge model utilizing Bentley's OBM, and with detail to verify the design of the 60% plan sheets. When the 3D bridge model is referenced into the 3D corridor, the bridge shall align, both vertically and horizontally, in the bridge location of the 3D corridor. The 3D bridge model shall consist of 3D elements for slab, beams, abutments, wingwalls, caps, columns, and foundations. The level of detail of the bridge elements will be at the direction of the State.

E. State Bridge Review - Omitted

F. Review Submittal (90%)

1. APDF set of 11" x 17" plan sheets for the State District Review.
2. Estimate of construction cost.
3. Marked up general notes.
4. Construction schedule.
5. New Special Specifications and Special Provisions with Form 1814, if applicable.
6. Engineer's internal QA and QC marked up set.
7. Other supporting documents.
8. A detailed 3D corridor model, in the most current format, created using Bentley's OpenRoads tools, and with detail to verify the design of the 90% plan sheets. The level of detail of the surface and subsurface features will be at the direction of the State.
9. If applicable, a 3D bridge model utilizing Bentley's OBM, and with detail to verify the design of the 90% plan sheets. When the 3D bridge model is referenced into the 3D corridor, the bridge shall align, both vertically and horizontally, in the bridge location of the 3D corridor. The 3D bridge model shall consist of 3D elements for slab, beams, abutments, wingwalls, caps, columns, and foundations. The level of detail of the bridge elements will be at the direction of the State.

G. District Review Submittal (95%)

1. A PDF set of 11" x 17" plan sheets for the State district review.
2. List of governing Specifications and Special Provisions in addition to those required.
3. Marked up general notes.
4. Plans estimate.
5. New Special Specifications and Special Provisions with Form 1814, if applicable.
6. Triple Zero Special Provisions.
7. Engineer sign, seal and date supplemental sheets (8 ½" x 11").
8. Contract time determination summary.
9. Significant project procedures form.
10. Right-of-Way and utilities certification.
11. Temporary road closure letters.
12. Construction speed zone request.
13. Engineer's internal QA and QC marked-up set.

14. Other supporting documents.
15. A detailed 3D corridor model, in the most current format, created using Bentley's OpenRoads tools, and with detail to verify the design of the 95% plan sheets. The level of detail of the surface and subsurface features will be at the direction of the State.
16. If applicable, a 3D bridge model utilizing Bentley's OBM, and with detail to verify the design of the 95% plan sheets. When the 3D bridge model is referenced into the 3D corridor, the bridge shall align, both vertically and horizontally, in the bridge location of the 3D corridor. The 3D bridge model shall consist of 3D elements for slab, beams, abutments, wingwalls, caps, columns, and foundations. The level of detail of the bridge elements will be at the direction of the State.

H. Final submittal (100%)

1. A PDF set of 11" x 17".
2. Revised supporting documents from 95% review comments.
3. A final 3D corridor model, in the most current format, created using Bentley's OpenRoads tools. The level of detail of the surface and subsurface features will be at the direction of the State.
4. A final 3D earthwork model in either .XML or .ICM format (as directed by the State) created using Bentley's OpenRoads tools. The level of detail of the surface and subsurface features will be at the direction of the State.
5. If applicable, a final 3D bridge model utilizing Bentley's OBM. When the 3D bridge model is referenced into the 3D corridor, the bridge shall align, both vertically and horizontally, in the bridge location of the 3D corridor. The 3D bridge model shall consist of 3D elements for slab, beams, abutments, wingwalls, caps, columns, and foundations. The level of detail of the bridge elements shall be at the direction of the State.
6. The Engineer shall prepare a letter report which includes the findings of the comparison of OBM 3D bridge model geometry and quantities verified by traditional design methods. The report shall include a detailed discussion of the differences between methods and recommended enhancements to address issues in OBM software.

DEL.3. Electronic Copies.

The Engineer shall furnish the State with a USB flash drive of the final plans in the format of the current CADD system used by the State, .pdf format, and in the State's File Management System (FMS) format.

The Engineer shall also provide a separate USB flash drive containing cross section information (in dgn, XLR, & ASCII formats) for the State's construction contractor to use.

The Engineer shall provide an electronic copy of the Primavera file or the latest scheduling program used by the State for the construction time estimate.

With the approval of the State, and in lieu of the above, the Engineer may maintain the project files in the State's ProjectWise Work Areas. The handoff of the electronic files will be via email to the State, with a URN link to the project location in ProjectWise provided in the email.

DEL.4. Calculations.

The Engineer shall provide the following:

A. A 3-ring binder with all quantity and non-structural design calculations.

B. A bound copy of all engineering calculations, analysis, input calculations, quantities, geometric designs (OpenRoads Designer and/or OpenBridge Designer files), etc. relating to the project's structural elements. Project structural elements include, but are not limited to: bridges, retaining walls, overhead sign foundations, high-mast illumination foundations, non-standard culverts, custom headwalls, and drainage appurtenances.

C. Working copies of all spreadsheets and output from any programs utilized on a USB flash drive in a universally reliable format.

The Engineer may provide the calculations in .pdf format in lieu of the bound hard copies. The .pdf file should be submitted on a USB flash drive or in ProjectWise (if applicable).

DEL.5. Archiving File for Bridge Design Calculations and Notes.

The Engineer shall scan the design notes (or convert electronic files) and submit a single .PDF file for each bridge in accordance with the TxDOT *Bridge Design Manual - LRFD*. In the case of a single design done for twin structures, submit the same notes under two separate NBI numbers.

SUMMARY

Basic Services - Lump Sum Payment

Prime Provider: HDR Engineers, Inc. Highway: FM 741 at US175 PS&E		SUBTOTALS	HDR Engineering, Inc.	Terracon Consultants, Inc.	Gorrondona & Associates, Inc.	ARS	GRAM Traffic North Texas, Inc.	STV
FC 110	Direct Labor Cost	$ 54,573.17	$ 37,646.00	$ 16,927.17				
	Unit Cost	$ 26,428.75		$ 26,428.75				
	Other Direct Expense	$ 20,775.00		$ 20,775.00				
FC 120	Direct Labor Cost	$ 52,498.00	$ 52,498.00					
	Other Direct Expense	$ 350.00	$ 350.00					
FC 130	Direct Labor Cost	$ 1,566.00	$ 1,566.00					
FC 145	Direct Labor Cost	$ 107,595.40	$ 85,676.00	$ 4,148.40	$ 2,230.00	$ 6,530.00	$ -	$ 9,011.00
	Other Direct Expense	$ 2,440.00	$ 2,265.00					$ 175.00
FC 150	Direct Labor Cost	$ 11,590.00	$ 3,640.00		$ 7,950.00			
	Unit Cost/Survey	$ 24,480.00			$ 24,480.00			
	Other Direct Expense	$ 6,741.00			$ 6,741.00			
FC 160	Direct Labor Cost	$ 233,790.00	$ 233,790.00					
FC 161	Direct Labor Cost	$ 48,802.00	$ 48,802.00					
FC 162	Direct Labor Cost	$ 163,536.00	$ 163,536.00					
FC 163	Direct Labor Cost	$ 345,837.00	$ 193,223.00			$ 9,688.00		$ 142,926.00
	Unit Cost	$ 87,437.50				$ 84,437.50	$ 3,000.00	
	Other Direct Expense	$ 5,780.00				$ 5,780.00		
FC 165	Direct Labor Cost	$ 28,170.00	$ 28,170.00					
	Unit Cost	$ -						
FC 170	Direct Labor Cost	$ 119,528.00	$ 119,528.00					
	Unit Cost	$ -						
	Other Direct Expense	$ -						
TOTALS		**$ 1,341,917.82**	**$ 970,690.00**	**$ 68,279.32**	**$ 41,401.00**	**$ 106,435.50**	**$ 3,000.00**	**$ 152,112.00**
% of Work		100.00%	72.34%	5.09%	3.09%	7.93%	0.22%	11.34%
(HUB %)		11.24%			3.09%	7.93%	0.22%	

Labor Total	$	1,167,485.57
Unit Cost Total	$	138,346.25
ODE Total	$	36,086.00
GRAND TOTAL:	**$**	**1,341,917.82**

FUNCTION CODE 102 (110) – FEASIBILITY STUDIES

Prime Provider Name: HDR Engineering, Inc.

	BASIS SERVICES Task Descriptions	Project Manager $ 365.00	Quality Manager $ 318.00	Engineer (Senior) $ 261.00	Engineer (Project) $ 209.00	Engineer (Design) $ 180.00	EIT $ 122.00	Engineer Tech $ 123.00	Total Cost
110	**Feasibility Studies (FC 110)**								
110.1	Data Collection and Field Reconnaisance								
	Review available information from the State	4			16				$ 4,804.00
	Field Reconnaissance	4			4				$ 2,296.00
110.2	Design Criteria	8			16				$ 6,264.00
110.3	Preliminary Cost Estimates	4	4			4			$ 3,452.00
110.4	Design Concept Conference								
	Prepare DSR and Presentation	8			12				$ 5,428.00
	Attend DCC	4			4				$ 2,296.00
110.5	Geotechnical Borings and Investigations								
110.5.A	Determine location of proposed borings				4				$ 836.00
110.6	Traffic and Operational Analysis	4				40			$ 8,660.00
110.7	Safety Analysis	2				16			$ 3,610.00
		38	4	0	56	60	0	0	$ 37,646.00
	Subtotal Labor Cost:	$ 13,870.00	$ 1,272.00	$ -	$ 11,704.00	$ 10,800.00	$ -	$ -	$ 37,646.00

Sub Provider Name: Terracon Consultants, Inc.

	BASIS SERVICES Task Descriptions	Project Manager $255.14	Project Engineer $226.79	Senior Engineerin & Technician $129.14	EIT $119.69	Engineer CADD Tech $88.20	Admin/Clerical $75.60	Total Cost
110.5	Geotechnical Borings and Investigations							
110.5.A	Geotechnical Field Investigation							
110.5.A	Project Planning, Pre-Task Meeting, Boring Location Plan	3	4	2	2		2	$ 2,321.44
	TxDOT and County Permits	2	2		1			$ 1,083.55
	Staking Borings and Clearing Utilities		1	6				$ 1,001.63
110.5.B	Field Supervision and Soil Sample Logging		2	40				$ 5,619.18
	Field Log Review and Laboratory Test Assignment	1	2		2		2	$ 1,099.30
110.5.C	Laboratory Results Review and Preparing Boring Logs	1	4					$ 1,162.30
110.5.D	Geotechnical Reporting							
	Draft Geotechnical Data Report	4	10			2		$ 3,464.86
	Final Geotechnical Data Report	1	3				2	$ 1,086.71
110.5.F	Prepare soil boring Log Sheets					1		$ 88.20
	Subtotal Hours:	12	28	48	5	3	6	$ 16,927.17
	Subtotal Labor Cost:	$ 3,061.68	$ 6,350.12	$ 6,198.72	$ 598.45	$ 264.60	$ 453.60	$ 16,927.17

FUNCTION CODE 102 (110) – FEASIBILITY STUDIES

Sub Provider Name: Terracon Consultants, Inc.				
OTHER DIRECT EXPENSE	UNIT	Fixed/Max UNIT COST	QUANTITY	COST
Travel				
Mileage	mile	$ 0.70	250	$ 175.00
Traffic Control				
Traffic Control Services, Arrow Boards and Attenuator trucks - (Includes labor, equipment and fuel)	day	$ 5,150.00	4	$ 20,600.00
			Total Terracon:	**$ 20,775.00**

FUNCTION CODE 120 (120) – SOCIAL/ECON/ENV STUDIES

	Prime Provider Name: HDR Engineering, Inc.	$ 365.00	$ 318.00	$ 289.00	$ 131.00	$ 107.00	$169.00	$135.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Environmental Scientist - Senior	Environmental Scientist III	Environmental Scientist I/II	GIS Operator - Senior	GIS Technician	Total Cost
120	**Social, Economic and Environmental Studies and Public Involvement (FC 120)**								
120.3	Environmental Documentation Preparation								
	Draft Work Product Development Forms		2	2	10	4		4	$ 3,492.00
	Final Work Product Development Forms		1	1	4	2		2	$ 1,615.00
	Community Impact Analysis								
	Draft Community Impact Analysis		2		6	16	4	3	$ 4,215.00
	Final Community Impact Analysis		1		2	6	3	2	$ 1,999.00
120.3.A.1.a	Clean Water Act Section 303(d) and Other Impaired Waters		1		4	3		3	$ 1,568.00
	Clean Water Act, Section 404		2		4	3		3	$ 1,886.00
120.3.A.1.b	Environmental Permits Issues and Commitments (EPIC) Sheets								
	Draft EPIC Sheets		2		6	8		4	$ 2,818.00
	Final EPIC Sheets		1		3	4		2	$ 1,409.00
120.3.A.1.c	Threatened or Endangered Species								
	Draft Biological Evaluation Form		1	1	4	3			$ 1,452.00
	Final Biological Evaluation Form		1	1	4	3			$ 1,452.00
	Draft TPWD Tier I Site Assement		1	1	4	3		3	$ 1,857.00
	Final TPWD Tier I Site Assement		1	1	4	3		2	$ 1,722.00
120.3.A.1.d	Initial Assessment of Hazardous Materials Impacts								
	Draft Hazardous Materials ISA Technical Report		1	4	20	12	4	8	$ 7,134.00
	Final Hazardous Materials ISA Technical Report		1	4	12	8	3	6	$ 5,219.00
120.3.A.1.e	Archeological Background Studies								
	Draft ABS		1	2	12	8		4	$ 3,864.00
	Final ABS		1	2	4	3		2	$ 2,011.00
	Draft Project Coordination Request		1	2	12	8		4	$ 3,864.00
	Final Project Coordination Request		1	2	4	3		2	$ 2,011.00
	Agency Coordination			4					$ 1,156.00
120.3.A.1.f	Stormwater Permits (Section 402 of the Clean Water Act)				6	4		4	$ 1,754.00
		0	22	27	125	104	14	58	$ 52,498.00
	Subtotal Labor Cost:	$ -	$ 6,996.00	$ 7,803.00	$ 16,375.00	$ 11,128.00	$ 2,366.00	$ 7,830.00	$ 52,498.00

FUNCTION CODE 120 (120) – SOCIAL/ECON/ENV STUDIES

Prime Provider Name: HDR Engineering, Inc.				
OTHER DIRECT EXPENSE	UNIT	Fixed/Max UNIT COST	QUANTITY	COST
Travel				
Mileage	mile	$ 0.70	500	$ 350.00
Lodging/Hotel - Taxes and Fees	day/person	$ 45.00		$ -
Lodging/Hotel (Taxes/fees not included)	day/person	$ 96.00		$ -
Meals (Excluding alcohol & tips) (Overnight stay required)	day/person	$ 55.00		$ -
			Total HDR:	**$ 350.00**

Subtotal of Other Direct Expenses	**$ 350.00**

FUNCTION CODE 130 (130) – RIGHT-OF-WAY DATA

	Prime Provider Name: HDR Engineering, Inc.	$365.00	$ 209.00	
	BASIS SERVICES **Task Descriptions**	Project Manager	Engineer (Project)	Total Cost
130.3	Right-of-Way Map			
	Right of Way Map Review	2	4	$ 1,566.00
	Subtotal Hours:	2	4	$ 1,566.00
	Subtotal Labor Cost:	$ 730.00	$ 836.00	$ 1,566.00

FUNCTION CODE 145 (145, 164) – MANAGING CONTRACTED/DONATED PE

Prime Provider Name: HDR Engineering, Inc.

	BASIS SERVICES Task Descriptions	Project Manager	Engineer (Senior)	Quality Manager	Engineer (Project)	Engineer (Design)	EIT	Admin / Clerical	Total Cost
		$365.00	$ 261.00	$ 318.00	$ 209.00	$ 180.00	$ 122.00	$ 107.00	
145	Contract Management and Administration (FC 145)								
145.1	Contract Management and Administration - 12 months								
	Prepare and maintain a Project Management Plan (PMP)	12						8	$ 5,236.00
	Prepare and maintain a Quality Assurance Quality Control Plan	4	4						$ 2,504.00
	Prepare and maintain CADD Protocols and plan sheet Organization	4			4				$ 2,296.00
	Organize and direct project status bi-weekly conference call (12 months)	24			24		24		$ 16,704.00
	Coordinate with stakeholders	8	8						$ 5,008.00
	Monthly Coordination Meetings (web-ex, up to 12)	12				12			$ 6,540.00
	Prepare monthly written progress reports (12 months)	12						12	$ 5,664.00
	Develop and maintain a detailed project schedule	8	4					4	$ 4,392.00
	Regular Progress Meetings with the County (up to 12)	12				12			$ 6,540.00
	Prepare and distribute meeting minutes	4						8	$ 2,316.00
	Document phone calls and conference calls	4						8	$ 2,316.00
	In-Person Project Coordination Meetings (up to 6)	24				24			$ 13,080.00
	Attend Submittal Review Meetings (up to 6)	24				24			$ 13,080.00
	Subtotal Hours:	152	16	0	28	72	24	40	$ 85,676.00
	Subtotal Labor Cost:	$ 55,480.00	$ 4,176.00	$ -	$ 5,852.00	$ 12,960.00	$ 2,928.00	$ 4,280.00	$ 85,676.00

Sub Provider Name: STV

	BASIS SERVICES Task Descriptions	Project Manager	Senior Engineer	Design Engineer	Admin/ Clerical	Total Cost
		$ 380.00	$ 275.00	$ 198.00	$ 95.00	
145	Project Management and Coordination of Preliminary Design (FC 145)					
	Project Meetings, Progress Reports, Monthly Invoicing	12			12	$ 5,700.00
	Misc. Project Meetings and Coordination; (4 Meetings)		4	4		$ 1,892.00
	Project Setup		3	3		$ 1,419.00
	Subtotal Hours:	12	7	7	12	$ 9,011.00
	Subtotal Labor Cost:	$ 4,560.00	$ 1,925.00	$ 1,386.00	$ 1,140.00	$ 9,011.00

Sub Provider Name: Terracon Consultants, Inc.

	BASIS SERVICES Task Descriptions	Project Manager	Senior Engineer	Admin/Clerical	Total Cost
		$ 255.14	$ 226.79	$ 75.60	
145	Project Management and Coordination of Preliminary Design (FC 145)				
	Monthly Coordination Meetings (web-ex, up to 12)	2	4	3	$ 1,644.24
	Prepare monthly written progress reports (12 months)	2	4	3	$ 1,644.24
	Project Setup	1	2	2	$ 859.92
	Subtotal Hours:	5	10	8	$ 4,148.40
	Subtotal Labor Cost:	$ 1,275.70	$ 2,267.90	$ 604.80	$ 4,148.40

FUNCTION CODE 145 (145, 164) – MANAGING CONTRACTED/DONATED PE

Sub Provider Name: ARS

	BASIS SERVICES Task Descriptions	Project Manager $305.00	Engineer (Utilities) $201.00	Engineer-In-Training II $133.00	CADD Operator $128.00	SUE Field Manager $143.00	Administrative/Clerical $117.00	Total Cost
145	**Project Management and Coordination of Preliminary Design (FC 145)**							
	Monthly Coordination Meetings (web-ex, up to 12)	4	8					$ 2,828.00
	Prepare monthly written progress reports (12 months)	4					8	$ 2,156.00
	Project Setup	2					8	$ 1,546.00
	Subtotal Hours:	10	8	0	0	0	16	$ 6,530.00
	Subtotal Labor Cost:	$ 3,050.00	$ 1,608.00	$ -	$ -	$ -	$ 1,872.00	$ 6,530.00

Sub Provider Name: Gorrondona & Associates, Inc.

	BASIS SERVICES Task Descriptions	Support Manager Survey (RPLS) $ -	Surveyor (RPLS) - Senior $188.00	Surveyor (RPLS) $155.00	Admin / Clerical $74.00	Total Cost
145	**Project Management and Coordination of Preliminary Design (FC 145)**					
	Monthly Coordination Meetings (web-ex, up to 12)			6		$ 930.00
	Prepare monthly written progress reports (12 months)			6	4	$ 1,226.00
	Project Setup				1	$ 74.00
	Subtotal Hours:	0	0	12	5	$ 2,230.00
	Subtotal Labor Cost:	$ -	$ -	$ 1,860.00	$ 370.00	$ 2,230.00

FUNCTION CODE 145 (145, 164) – MANAGING CONTRACTED/DONATED PE

Prime Provider Name: HDR Engineering, Inc.				
OTHER DIRECT EXPENSE FC 145	UNIT	Fixed/Max UNIT COST	QUANTITY	COST
Travel				
Mileage	mile	$ 0.70	1,200	$ 840.00
Lodging/Hotel - Taxes and Fees	day/person	$ 45.00		$ -
Lodging/Hotel (Taxes/fees not included)	day/person	$ 96.00		$ -
Meals (Excluding alcohol & tips) (Overnight stay required)	day/person	$ 55.00		$ -
Toll Charges	day	$ 50.00	5	$ 250.00
Administrative				
Photocopies B/W (11" X 17")	each	$ 0.25	1,000	$ 250.00
Photocopies B/W (8 1/2" X 11")	each	$ 0.15	2,000	$ 300.00
Photocopies Color (11" X 17")	each	$ 1.25	100	$ 125.00
Photocopies Color (8 1/2" X 11")	each	$ 1.00	500	$ 500.00
			Total HDR:	**$ 2,265.00**

Sub Provider Name: STV				
OTHER DIRECT EXPENSE FC 145	UNIT	Fixed/Max UNIT COST	QUANTITY	COST
Travel				
Mileage	mile	$ 0.70	250	$ 175.00
			Total STV:	**$ 175.00**

Subtotal of Other Direct Expenses	**$ 2,440.00**

FUNCTION CODE 160 (150) – ROADWAY DESIGN - DESIGN SURVEYS

Prime Provider Name: HDR Engineering, Inc.

	BASIS SERVICES Task Descriptions	Project Manager $365.00	Engineer (Senior) $ 261.00	Engineer (Project) $ 209.00	Senior Engineer Tech $ 168.00	Total Cost
150	**Field Surveying and Photogrammetry (FC 150)**					
	Surveys					
	Coordinate and review surveys	4		4	8	$ 3,640.00
	Subtotal Hours:	4	0	4	8	$ 3,640.00
	Subtotal Labor Cost:	$ 1,460.00	$ -	$ 836.00	$ 1,344.00	$ 3,640.00

Sub Provider Name: Gorrondona & Associates, Inc.

	BASIS SERVICES Task Descriptions	Surveyor (RPLS) - Senior $ 188.00	Surveyor (RPLS) $ 155.00	Survey Technician - SIT $ 111.00	Survey Technician $ 94.00	Admin / Clerical $ 74.00		Total Cost
150	**Design Surveys and Construction Surveys (FC 150)**							
150.1	Design surveys							
	Obtain data to create cross-sections and Digital Terrain Models (DTM)	1	1	6				$ 1,009.00
	Locate existing utilities			4				$ 444.00
	Locate topographical features and existing improvements		1	6				$ 821.00
	Proved details of existing drainage features			4				$ 444.00
	Establish additional control points (1 Primary, 5 secondary)	1	2	4	2			$ 1,130.00
	Review ROW maps and retrace existing ROW		2	6		1		
	Locate boreholes (up to 4)		1	3				$ 488.00
	Prepare Survey Control Index Sheet		1	1	4			$ 642.00
	Prepare Horizontal and Vertical Control Sheet	1	2	2	12	1		$ 1,922.00
	Subtotal Hours:	3	10	36	18	2	0	$ 6,900.00
	Subtotal Labor Cost:	$ 564.00	$ 1,550.00	$ 3,996.00	$ 1,692.00	$ 148.00	$ -	$ 7,950.00

FUNCTION CODE 160 (150) -- ROADWAY DESIGN - DESIGN SURVEYS

Sub Provider Name:	Gorrondona & Associates, Inc.				
OTHER DIRECT EXPENSE	UNIT	Fixed/Max UNIT COST	QUANTITY	COST	
Travel					
Mileage	mile	$ 0.70	1,344	$	941.00
Lodging/Hotel - Taxes and Fees	day/person	$ 45.00		$	-
Lodging/Hotel (Taxes/fees not included)	day/person	$ 96.00		$	-
Meals (Excluding alcohol & tips) (Overnight stay required)	day/person	$ 55.00		$	-
Surveying / ROW					
Type II ROW Monument - Poured 2-3 Feet (includes equipment, materials, & rentals). Marker supplied by TxDOT	each	$ 300.00	1	$	300.00
Traffic Control					
Traffic Control Services, Arrow Boards and Attenuator trucks - (Includes labor, equipment and fuel)	day	$ 5,500.00	1	$	5,500.00
			Total GAI:	$	6,741.00
			Subtotal of Other Direct Expenses	$	6,741.00

FUNCTION CODE 160 (160) – ROADWAY DESIGN - ROADWAY DESIGN CONTROLS

	Prime Provider Name: HDR Engineering, Inc.	$ 365.00	$ 318.00	$ 209.00	$ 180.00	$ 122.00	$ 168.00	$ 123.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Engineer (Project)	Engineer (Design)	EIT	Senior Engineer Tech	Engineer Tech	Total Cost
160	**Roadway Design (FC 160)**								
160.1	Geometric Design								
160.1.B	Develop Preliminary Geometric Project Layout	8				40	24		$ 11,832.00
160.2	Roadway Design (Included in sheets below)								
160.3	Typical Sections (Included in sheets below)								
160.4	Mainlane and Frontage Road Design (Included in sheets below)								
160.6	Cross Streets (Included in sheets below)								
160.7	Cut and Fill Quantities								
	Openroads Model	4		24	40	80			$ 23,436.00
	Cross Sections, 50' interval	4		8	24	24		40	$ 15,300.00
	Model Review (30%,60%, 95%,100%)	4	24						$ 9,092.00
160.8	Plan Preparation								
	Title Sheet				4	4	2		$ 1,544.00
	Index of Sheets				4	4	8		$ 2,552.00
	Insert Survey Control Index Sheets					4	8		$ 1,832.00
	Insert Horizontal and Vertical Control Sheets					4	8		$ 1,832.00
	Project Layout	4		4	8	16			$ 5,688.00
	Existing Typical Sections	8		8	16	24			$ 10,400.00
	Proposed Typical Sections	8		8	20	32			$ 12,096.00
	General Notes (create sheets)	8						16	$ 4,888.00
	Estimate Summary Sheets (E & Q sheets)	4						16	$ 3,428.00
	Roadway Summary Sheet	4		4		16			$ 4,248.00
	Removal Summary Sheet	4		4		16			$ 4,248.00
	EW Summary Sheet	4		4		16			$ 4,248.00
	Horizontal Alignment Data	4			16	16			$ 6,292.00
	Removals	8		8	16	40			$ 12,352.00
	Mainlane Plan & Profile (H=1"=100' - V=1"=10')	12		8	24	40	40		$ 21,972.00
	Insert Boring Logs					4		8	$ 1,472.00
	Intersection Layouts	4		4	12	24	24		$ 11,416.00
	Misc Details	8		4	12	24	24		$ 12,876.00
	Abutment Grading Plans	4		4	12	24	24		$ 11,416.00
	Select TxDOT Standards	2			8			16	$ 4,138.00
160.10	Pavement Design								
	Incorporate pavement design provided by the State				8	16			$ 3,392.00
160.11	Pedestrian and Bicycle Facilities (included in sheets above)								
	Conduct QC/QA reviews on deliverables (30%,60%, 95% and 100%)		100						$ 31,800.00
	Subtotal Hours:	106	124	92	224	468	162	96	$ 233,790.00
	Subtotal Labor Cost:	$ 38,690.00	$ 39,432.00	$ 19,228.00	$ 40,320.00	$ 57,096.00	$ 27,216.00	$ 11,808.00	$ 233,790.00

FUNCTION CODE 160 (161) – ROADWAY DESIGN - DRAINAGE DESIGN

	Prime Provider Name: HDR Engineering, Inc.	$ 365.00	$ 318.00	$ 261.00	$ 209.00	$ 122.00	$ 168.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Engineer (Senior)	Engineer (Project)	EIT	Senior Engineer Tech	Total Cost
161	Drainage Design (FC 161)							
161.1	Data Collection							
	Conduct field inspections				4			$ 836.00
	Collect available data (GIS data, maps, contr plans, etc.)			2	4	4		$ 1,846.00
	Collect available FIRM, FIS, and H&H models					4		$ 488.00
161.2	Hydrologic Studies		4					$ 1,272.00
	Obtain drainage area boundaries and hydrologic parameters			4	4	8		$ 2,856.00
	Calculate discharges using th e appropriate hydrologic method			4	4	8		$ 2,856.00
	Include comparison method using two or more methods				2	4		$ 906.00
161.4	Storm Drains							
	Design and analyze storm drains (existing)			4	4	8		$ 2,856.00
	Size inlets, laterals, trunk line and outfall (proposed)			4	4	8		$ 2,856.00
161.5	Cross-drainage structures							
	N/A							
161.6	Temporary Drainage Facilities							
	Review Temp Drainage		8					$ 2,544.00
161.8	Drainage Report	1	4	6	32	16	4	$ 12,515.00
161.10	PS&E development for Hydraulics	1	8					$ 2,909.00
	Internal drainage area maps			4	2	6	2	$ 2,530.00
	Storm drain plan/profile sheets			4	4	16	16	$ 6,520.00
	TxDOT standards					2	2	$ 580.00
	Drainge facility quantity summaries			2	2	4	2	$ 1,764.00
	Develop 3D model of proposed drainage structures using DU				4	4	8	$ 2,668.00
	Subtotal Hours:	2	24	34	70	92	34	$ 48,802.00
	Subtotal Labor Cost:	$ 730.00	$ 7,632.00	$ 8,874.00	$ 14,630.00	$ 11,224.00	$ 5,712.00	$ 48,802.00

FUNCTION CODE 160 (162) – ROADWAY DESIGN - SIGNING, PAVEMENT MARKINGS, AND SIGNALIZATION (PERMANENT)

	Prime Provider Name: HDR Engineering, Inc.	$ 365.00	$ 318.00	$ 261.00	$ 209.00	$ 180.00	$ 122.00	$ 168.00	$ 123.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Engineer (Senior)	Engineer (Project)	Engineer (Design)	EIT	Senior Engineer Tech	Engineer Tech	Total Cost
162	**Signing, Pavement, and Signalization (Permanent)**									
162.1	Signing									
	Signing Plans (double banked)	4			8	16	40		40	$ 15,812.00
	Sign Details				4	8			16	$ 4,244.00
	Summary of Small Signs					8	16	16		$ 6,080.00
	Summary of Quantities	2				8			8	$ 3,154.00
	Select TxDOT Standards				2				12	$ 1,894.00
162.2	Pavement Markings									
	Pavement Marking Layouts (Included on signing plans)	2				8		16		$ 4,858.00
	Summary of Quantities	2				8			8	$ 3,154.00
	Select TxDOT Standards				2				12	$ 1,894.00
	Conduct QC/QA reviews on Signing/Markings deliverables (60%, 90%, 95% and 100%)		48							$ 15,264.00
162.3	Traffic Signal Warrant Studies									
	South Frontage Road only	2	2	8		40	56			$ 17,486.00
162.4	Traffic Signals									
	North Frontage Road Modifications									
	Existing Stop/Signal Layout	1		2	4		8			$ 2,699.00
	Proposed Signal Layout	1		8	16		32		8	$ 10,685.00
	Conduit and Conductor Schedule	1		2	4		16			$ 3,675.00
	Signing and Phase Sequence Diagram	1			4		12			$ 2,665.00
	Traffic Signal Foundation Detail Sheets	1			4		8			$ 2,177.00
	Standard Details	1			4		8			$ 2,177.00
	Summary of Quantities	1			4		8			$ 2,177.00
	QA/QC review	2	16							$ 5,818.00
	Cost Estimate	1			8		8			$ 3,013.00
	South Frontage Road									
	General Notes	1			3		4			$ 1,480.00
	Existing Stop/Signal Layout	1			2		8		8	$ 2,743.00
	Coordination with Electrical Service Provider	1		4	8		8			$ 4,057.00
	Proposed Signal Layout	2		16	24		60			$ 17,242.00
	Conduit and Conductor Schedule	1		4	16		24			$ 7,681.00
	Signing and Phase Sequence Diagram	1			4		12			$ 2,665.00
	Traffic Signal Foundation Detail Sheets	1			4		8			$ 2,177.00
	Standard Details	1			4		8			$ 2,177.00
	Summary of Quantities	1			8		8			$ 3,013.00
	QA/QC review	2	24							$ 8,362.00
	Cost Estimate	1			8		8			$ 3,013.00
	Subtotal Hours:	35	90	44	145	96	360	32	112	$ 163,536.00
	Subtotal Labor Cost:	$ 12,775.00	$ 28,620.00	$ 11,484.00	$ 30,305.00	$ 17,280.00	$ 43,920.00	$ 5,376.00	$ 13,776.00	$ 163,536.00

FUNCTION CODE 160 (163) – ROADWAY DESIGN - MISCELLANEOUS (ROADWAY)

	Prime Provider Name: HDR Engineering, Inc.	$365.00	$ 318.00	$ 261.00	$ 209.00	$ 180.00	$ 122.00	$ 168.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Engineer (Senior)	Engineer (Project)	Engineer (Design)	EIT	Senior Engineer Tech	Total Cost
163	**Roadway Design (FC 163)**								
163.1	Utility Engineering Investigation								
163.1.A	Coordinate and review SUE								
	Existing Utility Layout			8			24		$ 5,016.00
	Prepare Utility Conflict Matrix			12			80		$ 12,892.00
163.1.B	Coordinating and Meeting with Various Utility Owners			4			24		$ 3,972.00
163.1.C	Review Utility's Proposed Adjustments			4			16		$ 2,996.00
163.1E	Proposed Utility Layout			2			8		$ 1,498.00
	Evaluating Long Lead Utility Relocations			2			8		$ 1,498.00
163.1.F	Review and incorporate utility relocations into PS&E			8			16		$ 4,040.00
163.4	Temporary Traffic Signals and Illumination (Temporary Signals)	4		20	45		100	15	$ 30,805.00
163.5	Illumination								
	Illumination Underpass Layout (1 bridge)			14	8		6		$ 6,058.00
	Illumination Underpass Detail (1 bridge)			6	6		16		$ 4,772.00
	Electrical Service Design and Power Coordination			8	8		16		$ 5,712.00
	Voltage Drop Calculations						4		$ 488.00
	Illumination Standards				4		20		$ 3,276.00
	QAQC on Deliverables (assume 60%, 90%, 100%)		12		12		32		$ 10,228.00
163.6	Storm Water Pollution Prevention Plan (SWP3) Review	8							$ 2,920.00
163.7	Compute and Tabulate Quantities		4			8			$ 2,712.00
163.8	Special Utility Details	2		8			12		$ 4,282.00
163.9	Miscellaneous Structural Details	2				8	40		$ 7,050.00
163.10	Estimate								
	Prepare ASED quarterly	16			24		24		$ 13,784.00
	Enter estimate into TxDOT Connect	24							$ 8,760.00
163.11	Contract Time Determination	8		16		24			$ 11,416.00
163.12	Specifications and General Notes	8		16		24		24	$ 15,448.00
163.13	Constructability Review		40						$ 12,720.00
	Assemble submittal packages (30%,60%, 90%, 95% and 100%)					16		40	$ 9,600.00
	Prepare Submittal Forms	8			40				$ 11,280.00
	Subtotal Hours:	80	56	128	147	80	446	79	$ 193,223.00
	Subtotal Labor Cost:	$ 29,200.00	$ 17,808.00	$ 33,408.00	$ 30,723.00	$ 14,400.00	$ 54,412.00	$ 13,272.00	$ 193,223.00

FUNCTION CODE 160 (163) -- ROADWAY DESIGN - MISCELLANEOUS (ROADWAY)

Sub Provider Name: STV

	BASIS SERVICES Task Descriptions	Support Manager $380.00	Quality Manager $240.00	Senior Engineer $275.00	Project Engineer $198.00	EIT II $126.00	EIT I $110.00	Engineer CADD Tech $86.00	Admin/Clerical $95.00	Total Cost
163	**Miscellaneous (Roadway)**									
163.3	Traffic Control Plan, Detours, and Sequence of Construction									
	Conceptual TCP Roll Plots (Scale 1" = 200') (30%-60%)	2	2	8	24	64				$ 16,256.00
	TCAT workshop w/ KMZ (30%-60%)			8		8				$ 3,208.00
	TCP Narrative			4	16	20				$ 6,788.00
	TCP Typical Sections	2		8	16	24				$ 9,152.00
	TCP Overview Layouts (1" = 200') Double Stacked (2 Phase)			2	10	10				$ 3,790.00
	TCP Layouts (Scale 1" = 100') (60%, 95% & 100%)(2 Phase)	3	4	24	64	72				$ 30,444.00
	TCP Shoring Profiles			4	8	40				$ 7,724.00
	TCP Intersection Phasing Layouts (Scale 1"=40', 2 intersections @ 2 sheet ea)			2	30	50				$ 12,790.00
	TCP Detour Layouts / Advanced Warning Signs			5	20	30				$ 9,115.00
	TCP Misc Details	1		5		15				$ 3,645.00
	Assemble TCP Standards			4		8				$ 2,108.00
	Form 2229 & Form 1002 Preparation w/ EPIC			2	8					$ 2,134.00
	Temp Drainage Modeling and Coordination			2	16	20				$ 6,238.00
163.6	Storm Water Pollution Prevention Plan (SWP3)									$ -
	SW3P Narrative			2	10	8				$ 3,538.00
	SW3P Layout (Scale 1" = 100') (60%, 95% & 100%)(1 Phase)	1	1	10	24	24				$ 11,146.00
	SW3P Standards			3		20				$ 3,345.00
163.7	Compute and Tabulate Quantities									$ -
	Traffic Control Quantities	1		5	10	40				$ 8,775.00
	SW3P Quantities	1		2	4	8				$ 2,730.00
										$ -
										$ -
										$ -
	Subtotal Hours:	11	7	100	260	461	0	0	0	$ 142,926.00
	Subtotal Labor Cost:	$ 4,180.00	$ 1,680.00	$ 27,500.00	$ 51,480.00	$ 58,086.00	$ -	$ -	$ -	$ 142,926.00

Sub Provider Name: ARS

	BASIS SERVICES Task Descriptions	Project Manager $ 305.00	Engineer (Utilities) $ 201.00	Engineer-In-Training II $ 133.00	CADD Operator $ 128.00	SUE Field Manager $ 143.00	Administrative/Clerical $ 117.00	Total Cost
163	**Roadway Design (FC 163)**							
163.1	Utility Engineering Investigation (See Unit Costs)							
	3D Creation of SUE Base File	4	24		24	4		$ 9,688.00
	Subtotal Hours:	4	24	0	24	4	0	$ 9,688.00
	Subtotal Labor Cost:	$ 1,220.00	$ 4,824.00	$ -	$ 3,072.00	$ 572.00	$ -	$ 9,688.00

FUNCTION CODE 160 (163) – ROADWAY DESIGN - MISCELLANEOUS (ROADWAY)

Sub Provider Name: ARS				
OTHER DIRECT EXPENSE FC 163	UNIT	Fixed/Max UNIT COST	QUANTITY	COST
Travel				
Mileage	mile	$ 0.70	400	$ 280.00
Lodging/Hotel - Taxes and Fees	day/person	$ 45.00		$ -
Lodging/Hotel (Taxes/fees not included)	day/person	$ 45.00		$ -
Meals (Excluding alcohol & tips) (Overnight stay required)	day/person	$ 55.00		$ -
Traffic Control Services, Arrow Boards and Attenuator trucks - (Includes labor, equipment and fuel)	day	$ 5,500.00	1	$ 5,500.00
			Total ARS:	**$ 5,780.00**

Subtotal of Other Direct Expenses	**$ 5,780.00**

FUNCTION CODE 160 (165) – ROADWAY DESIGN - TRAFFIC MANAGEMENT SYSTEMS (PERMANENT)

	Prime Provider Name: HDR Engineering, Inc.	$365.00	$ 318.00	$ 261.00	$ 209.00	$ 180.00	$ 122.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Engineer (Senior)	Engineer (Project)	Engineer (Design)	EIT	Total Cost
165	**Traffic Management Systems (Permanent)**							
165.1	Traffic Management							
	Relocate exsiting ITS pole							
	ITS Layout (assume 1 ITS Pole Relocation)			4	10	6	20	$ 6,654.00
	Temporary ITS Layout (assume 1 Temp ITS Pole)			2	8	8	20	$ 6,074.00
	Design Elevation (assume 1 ITS Pole)			2	6	4	10	$ 3,716.00
	Electrical Service Details			2	6	2	10	$ 3,356.00
	Traffic Management System Quantity Summary				2		8	$ 1,394.00
	Traffic Management System Standards					4	20	$ 3,160.00
	QAQC on Deliverables (assume 60%, 95%, 100%)		12					$ 3,816.00
	Subtotal Hours:	0	12	10	32	24	88	$ 28,170.00
	Subtotal Labor Cost:	$ -	$ 3,816.00	$ 2,610.00	$ 6,688.00	$ 4,320.00	$ 10,736.00	$ 28,170.00

FUNCTION CODE 160 (170) – ROADWAY DESIGN - BRIDGE DESIGN

	Prime Provider Name: HDR Engineering, Inc.	$ 365.00	$ 318.00	$ 261.00	$ 180.00	$ 122.00	$ 168.00	
	BASIS SERVICES Task Descriptions	Project Manager	Quality Manager	Engineer (Senior)	Engineer (Design)	EIT	Senior Engineer Tech	Total Cost
170	**Bridge Design (FC 170)**							
170.1	Bridge Layout							
170.1.A	Determine bridge boring locations			2	6			$ 1,602.00
	Develop Bridge Layout Sheets	4		8	32	16	40	$ 17,980.00
	Develop Bridge Typical Sections (Phased Construction)			8	32		24	$ 11,880.00
	Develop preliminary Bridge Geometry (BGS)				8	16		$ 3,392.00
170.1.B	Prepare comparative cost analysis of structure types	2		4	16			$ 4,654.00
170.1.C	Prepare OBM Model				16	8	40	$ 10,576.00
170.2	Bridge Detail Summary							
	Tabulate Bridge Quantities				8	16		$ 3,392.00
	Develop Estimated Quantities Sheets and Bridge Summary				4	2	4	$ 1,636.00
170.3	Bridge Structural Details							
	Develop design and details for Bridge Abutments (Phased)				8	16	24	$ 7,424.00
	Develop desing and details for Bridge Interior Bents (Phased)				8	16	24	$ 7,424.00
	Develop control point elevations for superstructure and substructures			8	16			$ 4,968.00
	Prepare foundation details			8	16		16	$ 7,656.00
	Prepare framing Plan and Slab Span Sheet				8	16	32	$ 8,768.00
	Prepare tables for slab and bearing seat elevations (Final BGS)				8	24		$ 4,368.00
	Design Beams and prepare beam design tables				8	24		$ 4,368.00
	Prepare special specifications			16				$ 4,176.00
	Conduct QC/QA reviews (30%, 60%, 95% and 100%)		48					$ 15,264.00
	Subtotal Hours:	6	48	54	194	154	204	$ 119,528.00
	Subtotal Labor Cost:	$ 2,190.00	$ 15,264.00	$ 14,094.00	$ 34,920.00	$ 18,788.00	$ 34,272.00	$ 119,528.00

UNIT COSTS - TRAFFIC, GEOTECH, SUE, SURVEY

Prime Provider Name: GRAM Traffic North Texas, Inc.					
Unit Costs: TRAFFIC SERVICES					
Services To Be Provided		**Unit**	**Rate**	**Quantity**	**Totals**
24-Hour Classification Video Counts - Main Lanes ((upto 16 for mainlanes) x 2 day:		per lane/day	$250.00		$ -
24-Hour Automated Tube Counts - Volume (upto 18 for ramps) X 2 day:	for Traffic Analysis	per direction/per counter/day	$225.00		$ -
24-Hour Video System Classification Counts- Major Intersection (50 intersections) x 2 day:		per intersection	$1,500.00	2	$ 3,000.00
Travel Time Runs in DMI equipped vehicle (includes labor and mileage on site; processing labor not included)x 3 days (7:00 -9:00 AM, 4:00 - 6:00 PM		hour	$220.00		$ -
					$ 3,000.00
24-Hour Classification Video Counts - Main Lanes ((up to 8 for mainlanes) x 14 day:		per lane/day	$250.00		$ -
24-Hour Automated Tube Counts - Volume (upto 7 for ramps) X 3 day:	for IAJR: I20	per direction/per counter/day	$225.00		$ -
24-Hour Video System Classification Counts- Major Intersection (15 intersections) x 3 day:		per intersection	$1,500.00		$ -
Travel Time Runs in DMI equipped vehicle (includes labor and mileage on site; processing labor not included)x 3 days (7:00 -9:00 AM, 4:00 - 6:00 PM		hour	$220.00		$ -
Total Traffic					$ -
				Total GRAM Traffic:	$ 3,000.00

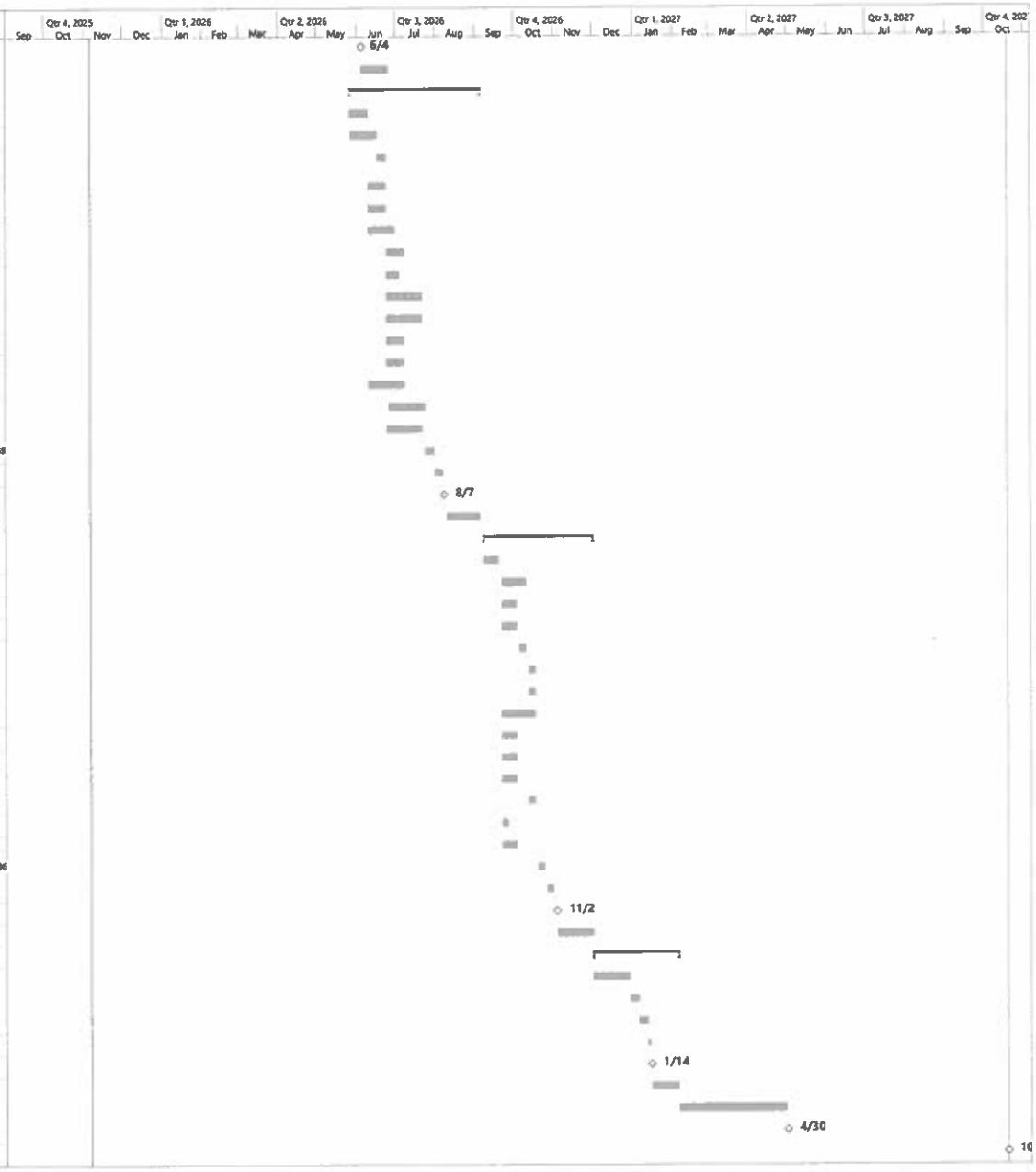
Sub Provider Name: Terracon Consultants, Inc.					
Unit Costs: Geotech					
Services To Be Provided		**Unit**	**Unit Cost**	**Quantity**	**Total**
Drilling Equipment Mobilization/Demobilization		each	$ 525.00	1	$ 525.00
Daily Drilling Crew Mobilization/Demobilization for Work Break:		day	$ 250.00	4	$ 1,000.00
Soil Boring/Rock Coring (SPT) (Manual Sampling) (< 60 ft.		LF	$ 45.00	250	$ 11,250.00
Soil Boring/Rock Coring (SPT) (Manual Sampling) (> 60 ft.		LF	$ 55.00	45	$ 2,475.00
Backfill with Cement - Bentonite Grout/Soil Cuttings		LF	$ 10.25	295	$ 3,023.75
Concrete/AC Patch		per patch	$ 70.00	2	$ 140.00
Drill Rig and Crew Coordination/Traffic Control Setup		Hour	$ 250.00	8	$ 2,000.00
				Total Geotech:	$ 20,413.75
Unit Costs: Materials Testing					
Services To Be Provided		**Unit**	**Unit Cost**	**Quantity**	**Total**
Determining Moisture Content in Soil Materials		each	$ 15.00	20	$ 300.00
Liquid Limit, Plastic Limit, and Plasticity Index of Soil:		each	$ 90.00	15	$ 1,350.00
Percent Passing No. 200 Sieve		each	$ 65.00	10	$ 650.00
Partial Sieve Analysis of Soils - #4, #40, #200 (without hydrometer		each	$ 65.00	0	$ -
Particle Size Analysis of Soils		each	$ 112.50	2	$ 225.00
Unconfied Compressive Strength (Soil)		each	$ 75.00	10	$ 750.00
Unconfied Compressive Strength (Rock)		each	$ 90.00	6	$ 540.00
Unconsolidated Undrained (UU) Triaxial Compression Test		each	$ 140.00	0	$ -
Consolidated Undrained (CU) Triaxial Compression Test with Pore Pressure Measurement:		each	$ 1,575.00	0	$ -
One Dimensional Consolidation Properties of Soils		each	$ 550.00	2	$ 1,100.00
Corrosion Potential Testing (pH, sulfates, Chlorides, Electrical Resistivity		each	$ 300.00	2	$ 600.00
Soil Organic Content Using UV-V Method - TxDOT Method Tex-148-E		each	$ 250.00	2	$ 500.00
Soil Organic Content - ASTM Method ASTM D2974		each	$ 85.00	0	$ -
				Total Materials:	$ 6,015.00
				Total Terracon:	$ 26,428.75

Sub Provider Name: ARS					
Unit Costs: Subsurface Utilitiy Engineering (SUE)					
Services To Be Provided		**Unit**	**Unit Cost**	**Quantity**	**Total**
SUE Mobilization/Demobilization					
This cost is intended to be an expense compensation per request for mobilizing/demobilizing personnel and equipment portal to portal. Vacuum excavation truck, equipment, travel time for 2-man crew, fuel. Mileage log to be provided.		mile	$ 6.50	100	$ 650.00
SUE (Quality Level D)					
Includes labor and equipment for records research and CADD (including overhead utilities) for overhead utilities measurement for payment will be LF per utility owner		LF	$ 0.79	12500	$ 9,875.00
SUE (Quality Level C)					
Includes labor and equipment for records research, CADD, and surveying (including overhead utilities) per utility owner. For overhead utilitie measurement for payment will be LF per utility owner (Apurtenance must be surveyed)		LF	$ 0.95	15000	$ 14,250.00
SUE (Quality Level B - Utility Designation)					
Includes labor and equipment for records research, designating, engineering, CADD, mapping and limited traffic contr		LF			$ -
Includes labor and equipment for surveying and limited traffic contro		LF	$ 2.10	20000	$ 42,000.00
SUE (Quality Level A - Utility Locate, Test Holes)					
Level A: 0 to 5 ft (Includes labor and equipment for engineering, CADD)		each			$ -
(Includes labor and equipment for surveying and limited traffic contro		each			$ -
(Includes labor and equipment for vacuum excavation and limited traffic contro		each	$ 1,425.00	3	$ 4,275.00
Level A: > 5 to 8 ft (Includes labor and equipment for engineering, CADD)		each			$ -
(Includes labor and equipment for surveying and limited traffic contro		each			$ -
(Includes labor and equipment for vacuum excavation and limited traffic contro		each	$ 1,750.00	2	$ 3,500.00
Level A: > 8 to 13 ft (Includes labor and equipment for engineering, CADD)		each			$ -
(Includes labor and equipment for surveying and limited traffic contro		each			$ -
(Includes labor and equipment for vacuum excavation and limited traffic contro		each	$ 2,375.00		$ -
Level A: > 13 to 20 ft (Includes labor and equipment for engineering, CADD)		each			$ -
(Includes labor and equipment for surveying and limited traffic contro		each			$ -
(Includes labor and equipment for vacuum excavation and limited traffic contro		each	$ 3,075.00		$ -
Level A: > 20 ft (Includes labor and equipment for engineering, CADD)		each			$ -
(Includes labor and equipment for surveying and limited traffic contro		each			$ -
(Includes labor and equipment for vacuum excavation and limited traffic contro		each	$ 240.00		$ -
Subsurface Utility Engineering (SUE) Field Services					
One (1) Designating Person with equipment		hour	$ 180.00		$ -
Two (2) Designating Person with equipment		hour	$ 235.00	20	$ 4,700.00
Two (2) Person Vacuum Excavation with equipment		hour	$ 425.00	7.5	$ 3,187.50
Coring and repairing the pavement includes labor, equipment, and material:		each	$ 400.00	5	$ 2,000.00
				Total ARS SUE:	**$ 84,437.50**

Sub Provider Name: Gorrondona & Associates, Inc.					
Unit Costs: FC 150 SURVEYING SERVICES					
Services To Be Provided		**Unit**	**Rate**	**Quantity**	**Totals**
Survey Crew (1-Person; GPS and Robotic Total Stations included in indirect cost rate. Mileage not included.		hour	$ 130.00		$ -
Survey Crew (2-Person; GPS and Robotic Total Stations included in indirect cost rate. Mileage not included.		hour	$ 180.00	136	$ 24,480.00
Survey Crew (3-Person; GPS and Robotic Total Stations included in indirect cost rate. Mileage not included.		hour	$ 210.00		$ -
				Total FC 150 Surveying:	**$ 24,480.00**
				Total GAI Surveying:	**$ 24,480.00**

ID	Task Name	Duration	Start	Finish	Predecessors
1	Project Duration	491 days	Mon 12/1/25	Mon 10/18/27	
2	Anticipated Execution of WA	1 day	Mon 12/1/25	Mon 12/1/25	
3	Execute Subagreements	5 days	Tue 12/2/25	Mon 12/8/25	2
4	Project Management Plan	3 days	Tue 12/9/25	Thu 12/11/25	3
5	Kickoff Meeting	1 day	Fri 12/12/25	Fri 12/12/25	4
6	Data Collection	75 days	Mon 12/15/25	Fri 3/27/26	
7	Obtain Existing Survey and FM 741 Plans	5 days	Mon 12/15/25	Fri 12/19/25	5
8	Data Collection & Field Recon	10 days	Mon 12/22/25	Fri 1/2/26	7
9	Survey	20 days	Mon 12/22/25	Fri 1/16/26	7
10	Geotechnical Exploration	60 days	Mon 1/5/26	Fri 3/27/26	8
11	Utility Coordination	252 days	Mon 1/5/26	Tue 12/22/26	
12	Review As-Builts	15 days	Mon 1/5/26	Fri 1/23/26	8
13	Preliminary Utility Coordination/SUE	20 days	Thu 3/19/26	Wed 4/15/26	41,34
14	Final Utility Confirmation	30 days	Wed 5/27/26	Tue 7/7/26	50
15	Utility Relocations (By Others)	6 mons	Wed 7/8/26	Tue 12/22/26	14
16	PGL/15% Progress Submittal	43 days	Mon 1/5/26	Wed 3/4/26	
17	Design Criteria	3 days	Mon 1/5/26	Wed 1/7/26	8
18	Prepare DSR	2 days	Mon 1/19/26	Tue 1/20/26	17,9
19	Misc Sheet Production (Project Layout, Title Sht, Etc)	5 days	Wed 1/21/26	Tue 1/27/26	18
20	Preliminary Roadway Geometry	15 days	Wed 1/21/26	Tue 2/10/26	18
21	Preliminary Bridge Type Selection/Span Arrangement	3 days	Fri 2/6/26	Tue 2/10/26	20FF
22	Safety Analysis	5 days	Wed 2/11/26	Tue 2/17/26	20
23	Roadway Sheet Production	5 days	Wed 2/11/26	Tue 2/17/26	20
24	Internal QA/QC	2 days	Wed 2/18/26	Thu 2/19/26	23,19,21,22
25	QC Resolution	2 days	Fri 2/20/26	Mon 2/23/26	24
26	Print, Assemble, and Transmit Submittal	1 day	Tue 2/24/26	Tue 2/24/26	25
27	DCC Meeting	1 day	Wed 3/4/26	Wed 3/4/26	26FS+5 days
28	Environmental Clearance / Public Involvement	179 days	Thu 3/5/26	Tue 11/10/26	
29	Prepare tech reports	40 days	Thu 3/5/26	Wed 4/29/26	27
30	Agency Coordination (By the State)	80 days	Wed 4/29/26	Tue 8/18/26	49
31	Prepare Environmental Exhibits	20 days	Wed 5/27/26	Tue 6/23/26	50
32	Final Documentation and Clearance (By the State)	60 days	Wed 8/19/26	Tue 11/10/26	30
33	Pre 30% Bridge Submittal	32 days	Thu 3/5/26	Fri 4/17/26	
34	Preliminary 3D Bridge Model	3 days	Thu 3/5/26	Mon 3/9/26	27
35	Preliminary Bridge Layout	8 days	Thu 3/5/26	Mon 3/16/26	27
36	InternalQA/QC	2 days	Tue 3/17/26	Wed 3/18/26	35
37	QC Resolution	1 day	Thu 3/19/26	Thu 3/19/26	36
38	Print, Assemble, and Transmit Submittal	1 day	Fri 3/20/26	Fri 3/20/26	37
39	District Review	20 days	Mon 3/23/26	Fri 4/17/26	38
40	30% PS&E Submittal	58 days	Thu 3/5/26	Tue 5/26/26	
41	Preliminary 3D Model	10 days	Thu 3/5/26	Wed 3/18/26	27
42	Roadway Sheet Production	10 days	Thu 3/19/26	Wed 4/1/26	41
43	Roadway Cross Sections	3 days	Thu 4/2/26	Mon 4/6/26	42
44	Preliminary Quantities	5 days	Tue 4/7/26	Mon 4/13/26	43
45	Preliminary Drainage Design	10 days	Thu 3/19/26	Wed 4/1/26	41
46	Develop Existing Utility Layouts	5 days	Thu 4/2/26	Wed 4/8/26	12,42
47	Internal QA/QC	5 days	Tue 4/14/26	Mon 4/20/26	44,42,43,45,46
48	QC Resolution	5 days	Tue 4/21/26	Mon 4/27/26	47
49	Print, Assemble, and Transmit Submittal	1 day	Tue 4/28/26	Tue 4/28/26	48
50	State Review	20 days	Wed 4/29/26	Tue 5/26/26	49
51	PS&E Submittal	22 days	Wed 5/27/26	Thu 6/25/26	
52	Incorporate 30% Review Comments	2 days	Wed 5/27/26	Thu 5/28/26	50,39
53	Finalize Bridge Layout	3 days	Fri 5/29/26	Tue 6/2/26	52,10

ID	Task Name	Duration	Start	Finish	Predecessors
54	Assemble PBLR Submittal and Transmit	2 days	Wed 6/3/26	Thu 6/4/26	53
55	State Review of PBLR	15 days	Fri 6/5/26	Thu 6/25/26	54
56	60% PS&E Submittal	73 days	Wed 5/27/26	Fri 9/4/26	
57	Incorporate 30% Comments	10 days	Wed 5/27/26	Tue 6/9/26	50
58	Develop Traffic Control Narrative and Preliminary Phasing	15 days	Wed 5/27/26	Tue 6/16/26	50
59	Traffic Control Workshop and submittal of the TCP for approval by the Traffic Control Approval Team (TCAT)	5 days	Wed 6/17/26	Tue 6/23/26	58
60	Refine 3D Model	10 days	Wed 6/10/26	Tue 6/23/26	57
61	Roadway Design	10 days	Wed 6/10/26	Tue 6/23/26	57
62	Drainage Design	15 days	Wed 6/10/26	Tue 6/30/26	57
63	Roadway Cross Sections	10 days	Wed 6/24/26	Tue 7/7/26	60
64	Preliminary Quantities	8 days	Wed 6/24/26	Fri 7/3/26	60
65	Traffic Control Plan Sheet Production	20 days	Wed 6/24/26	Tue 7/21/26	59
66	Temporary Signals	20 days	Wed 6/24/26	Tue 7/21/26	59
67	Illumination Design	10 days	Wed 6/24/26	Tue 7/7/26	59
68	Signing and Striping Design	10 days	Wed 6/24/26	Tue 7/7/26	59
69	Traffic Signal / ITS Design	20 days	Wed 6/10/26	Tue 7/7/26	57
70	Bridge Design	20 days	Fri 6/26/26	Thu 7/23/26	55
71	SWP3 Sheet Production	20 days	Wed 6/24/26	Tue 7/21/26	59
72	Internal QA/QC	5 days	Fri 7/24/26	Thu 7/30/26	61,63,64,65,66,67,68,69
73	QC Resolution	5 days	Fri 7/31/26	Thu 8/6/26	72
74	Print, Assemble, and Transmit Submittal	1 day	Fri 8/7/26	Fri 8/7/26	73
75	State Review	20 days	Mon 8/10/26	Fri 9/4/26	74
76	95% PS&E Submittal	61 days	Mon 9/7/26	Mon 11/30/26	
77	Incorporate 60% Comments	10 days	Mon 9/7/26	Fri 9/18/26	75
78	Final Traffic Control Sheet Production	15 days	Mon 9/21/26	Fri 10/9/26	77
79	Final Temporary Signal Sheet Production	10 days	Mon 9/21/26	Fri 10/2/26	77
80	Final Roadway Design	10 days	Mon 9/21/26	Fri 10/2/26	77
81	Refine 3D Model	5 days	Mon 10/5/26	Fri 10/9/26	80
82	Roadway Cross Sections	5 days	Mon 10/12/26	Fri 10/16/26	81
83	Final Quantities	5 days	Mon 10/12/26	Fri 10/16/26	81
84	Final Bridge Design	20 days	Mon 9/21/26	Fri 10/16/26	77
85	Final Drainage Design	10 days	Mon 9/21/26	Fri 10/2/26	77
86	Final Traffic Signal / ITS Design	10 days	Mon 9/21/26	Fri 10/2/26	77
87	Final Illumination Sheet Production	10 days	Mon 9/21/26	Fri 10/2/26	77
88	Final SWP3 Sheet Production	5 days	Mon 10/12/26	Fri 10/16/26	78
89	Signing and Striping Plan Production	5 days	Mon 9/21/26	Fri 9/25/26	77
90	Develop proposed utility layouts	10 days	Mon 9/21/26	Fri 10/2/26	77
91	Internal QA/QC	5 days	Mon 10/19/26	Fri 10/23/26	78,79,80,82,83,84,85,86
92	QC Resolution	5 days	Mon 10/26/26	Fri 10/30/26	91
93	Print, Assemble, and Transmit Submittal	1 day	Mon 11/2/26	Mon 11/2/26	92
94	State Review	20 days	Tue 11/3/26	Mon 11/30/26	93
95	100% PS&E Submittal	48 days	Tue 12/1/26	Thu 2/4/27	
96	Incorporate Final Review Comments & Finalized PS&E Package	20 days	Tue 12/1/26	Mon 12/28/26	94,75
97	Internal QA/QC	5 days	Tue 12/29/26	Mon 1/4/27	96
98	QC Resolution	5 days	Tue 1/5/27	Mon 1/11/27	97
99	Print and Assemble Submittal Package	2 days	Tue 1/12/27	Wed 1/13/27	98
100	Submit Signed and Sealed PS&E Package To TxDOT	1 day	Thu 1/14/27	Thu 1/14/27	99
101	TxDOT Review Signed and Sealed PS&E Package	15 days	Fri 1/15/27	Thu 2/4/27	100
102	TxDOT Process for Letting	60 days	Fri 2/5/27	Thu 4/29/27	101,82,15
103	Available for Letting	1 day	Fri 4/30/27	Fri 4/30/27	102
104	Contract termination date	1 day	Mon 10/18/27	Mon 10/18/27	103FS+6 mons



KAUFMAN COUNTY COMMISSIONERS' COURT
AGENDA REQUEST FORM

Note: This form is required for agenda requests, with the exception of supporting materials or attachments. Forms should be returned to the County Judge's Office by email to **Ashley.kirby@kaufmancounty.net** and **Kasey.hovis@kaufmancounty.net** at the Justice Center located at 1902 US Hwy. 175, Kaufman,Texas, 75142 for inclusion on the court's agenda. Items will not be included if submitted after the deadline which is **Tuesday at 12:00 P.M (Noon)** preceding the court meeting. Items will also be omitted if no supporting documents are included with your request. Regular court meetings are held each Tuesday of the month.

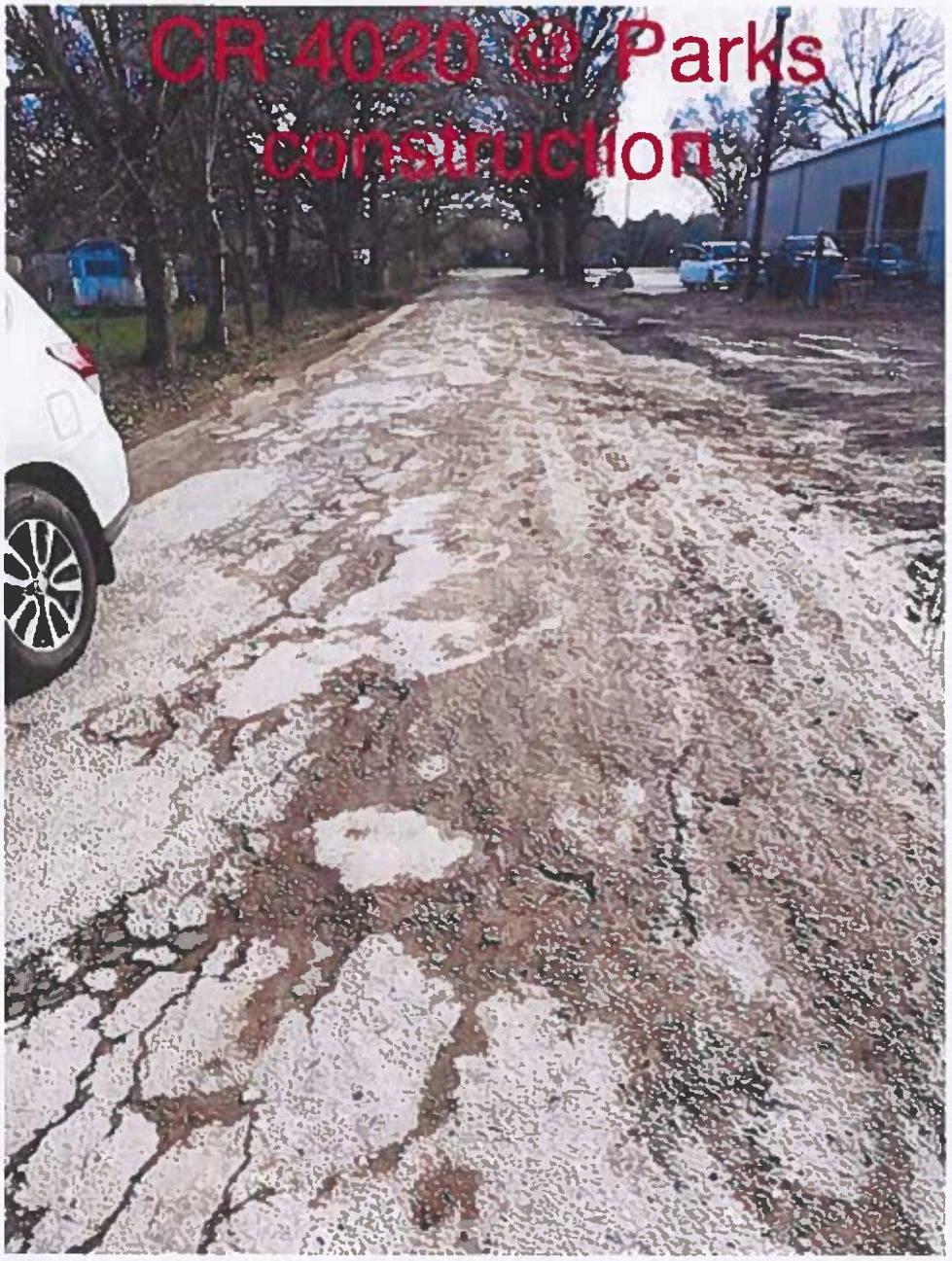
COURT DATE REQUESTED:	SUBMITTED BY: Jessica Moya DEPARTMENT: Purchasing	PERSON PRESENTING:
6/16/26		Lorena Diaz

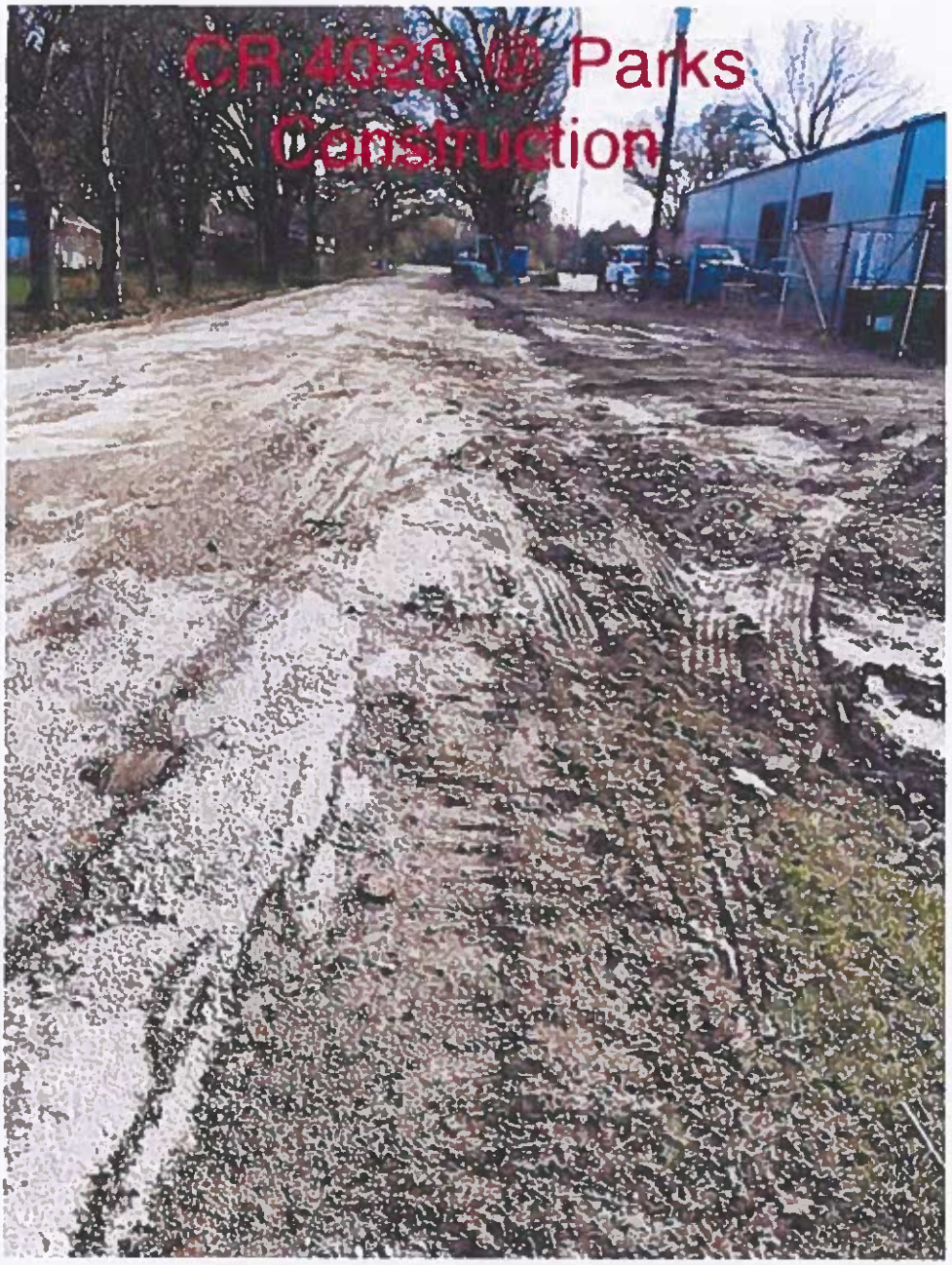
ITEM REQUESTED IS FOR:

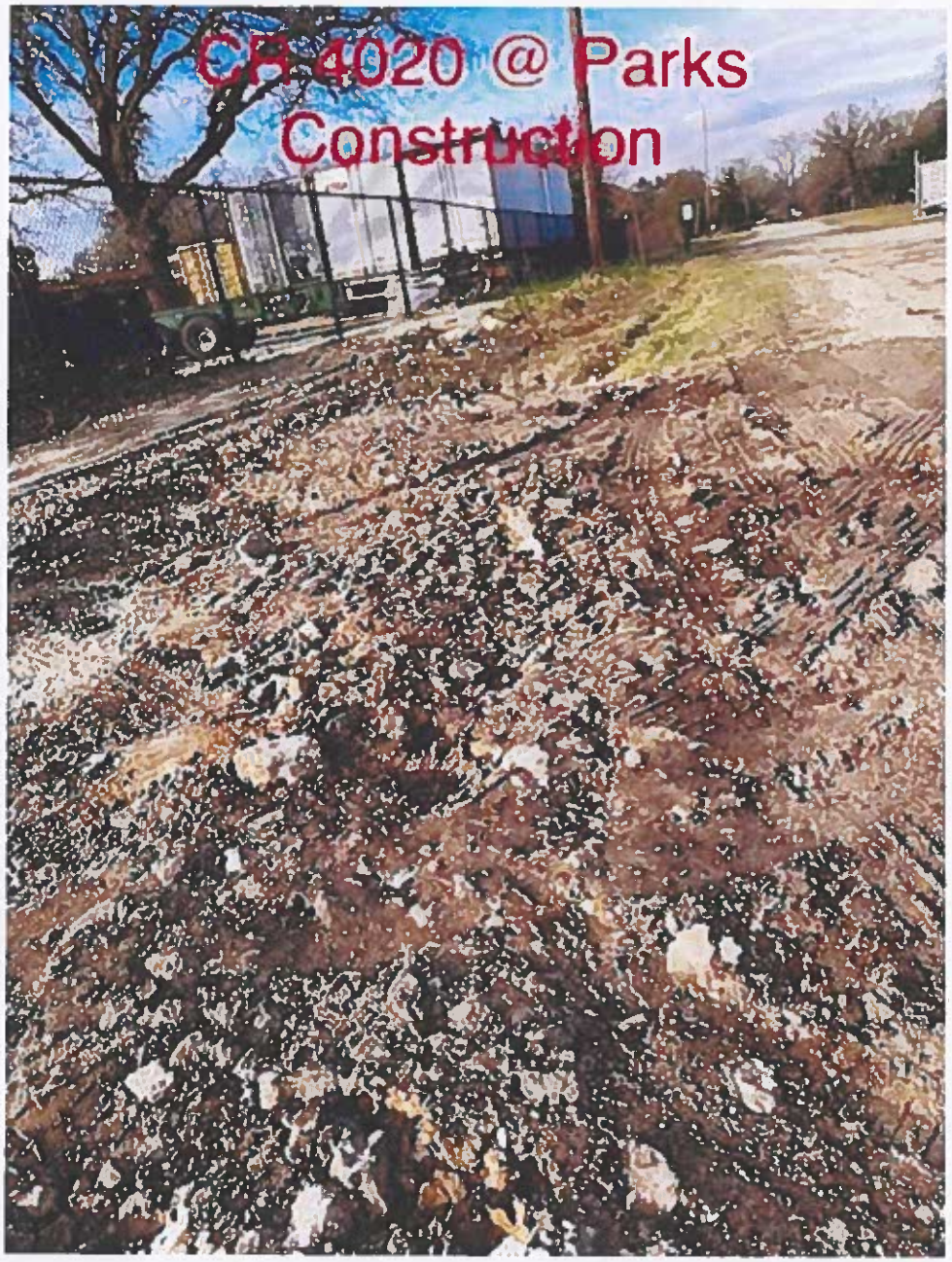
- ○ Consent Agenda
- ◉ Action/Consideration
- ○ Discussion/Report
- ○ Executive Session
- ○ Public Workshop

ITEM: (PLEASE STATE EXACTLY AS YOU WANT TO APPEAR ON THE AGENDA)

Discuss/Consider/Approve MB Concrete to do work at 15913 US 175 W Kemp,TX 75143 PCT 4 utilizing City of Forney RFP 2026-002


CR 4020 @ Parks
construction


CR 4020 @ Parks
Construction


CR 4020 @ Parks
Construction