CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

IMPROVING MORE THAN JUST ROADS

POSTED ON WEB
11/18/2024
AT 8:23 AM

# AGENDA
## Regular Meeting of the Board of Directors of the Cameron County Regional Mobility Authority
3470 Carmen Avenue, Suite 5
Rancho Viejo, Texas 78575
November 21, 2024
12:00 PM

**PUBLIC COMMENTS:**

1. Public Comments.

**ITEMS FOR DISCUSSION AND ACTION:**

2. Action Items.

   A. Consideration and Approval of the October 31, 2024, Regular Meeting Minutes.

   B. Acknowledgement of Claims.

   C. Approval of Claims.

   D. Consideration and Approval of an Amended Interlocal Agreement Between the Cameron County Regional Mobility Authority and Cameron County regarding the Outer Parkway Project.

   E. Consideration and Approval of an Amended Interlocal Agreement Between the Cameron County Regional Mobility Authority and Cameron County regarding the Flor de Mayo Project.

   F. Consideration and Approval of an Interlocal Agreement between the Cameron County Regional Mobility Authority and the Hidalgo County Regional Mobility Authority.

   G. Consideration and Approval of an Interlocal Agreement between the Cameron County Regional Mobility Authority and Military Highway Water Supply Corporation.

   H. Consideration and Approval of Interlocal Agreement for Legislative Services between the Cameron County Regional Mobility Authority and Cameron County.

   I. Consideration and Approval of Agreement between the Cameron County Regional Mobility Authority and Pathfinders Public Affairs for Legislative Services.

J. **Consideration and Approval of Work Authorization No. 1 with R.R.P. Consulting Engineers, L.L.C. for the SH 550 Emergency Repairs.**

K. **Consideration and Approval of Supplemental Work Authorization No. 1 to Work Authorization No. 10 with GDJ Engineering LLC, for the US 281 Connector Project.**

L. **Consideration and Approval of Recommendation of Highest Ranked General Engineering Consultant Proposal for Outer Parkway Project Preliminary Engineering and Environmental Solicitation.**

M. **Consideration and Approval of Work Authorization No. 2 with R.R.P. Consulting Engineers, L.L.C. for the Outer Parkway Project.**

N. **Discussion and Possible Action Regarding the transition with the Harris County Toll Road Authority.**

O. **Consideration and Approval of Professional Engineering Consulting Services Agreement between the Cameron County Regional Mobility Authority and JWH & Associates for Engineering Services Relating to the Update of the FM 511 Roadway Analysis.**

**ADJOURNMENT:**

**Signed this 18th day of November 2024**

**Frank Parker, Jr.**
**Chairman**

**NOTE:**
**Participation by Telephone Conference Call** – One or more members of the CCRMA Board of Directors may participate in this meeting through a telephone conference call, as authorized by Sec. 370.262, Texas Transportation Code. Each part of the telephone conference call meeting that by law must be open to the public shall be audible to the public at the meeting location and will be recorded. On conclusion of the meeting, the recording will be made available to the public.

**2-A CONSIDERATION AND APPROVAL OF THE OCTOBER 31, 2024 REGULAR MEETING MINUTES.**

**THE STATE OF TEXAS §**

**COUNTY OF CAMERON §**

**BE IT REMEMBERED on the 31st day of October 2024, there was conducted a Regular Meeting of the Cameron County Regional Mobility Authority, at the CCRMA Administrative Office, 3470 Carmen Avenue, Suite 5 thereof, in Rancho Viejo, Texas, for the purpose of transacting any and all business that may lawfully be brought before the same.**

**THE BOARD MET AT:**

**12:00 P.M.**

**PRESENT:**

**FRANK PARKER, JR.**
**CHAIRPERSON**

**MICHAEL SCAIEF**
**VICE CHAIRMAN**

**ARTURO A. NELSON**
**SECRETARY**

**AL VILLARREAL**
**TREASURER**

**MARK ESPARZA**
**DIRECTOR**

**LEO R. GARZA**
**DIRECTOR**

**DIRECTOR**

The Meeting was called to order by Chairman Parker, at 12:00 P.M. At this time, the Board considered the following matters as per CCRMA Agenda posted on the CCRMA's website and physically at 3470 Carmen Avenue, Suite 5, Rancho Viejo, Texas, on this 28th day of October 2024 at 11:10 A.M.

## PUBLIC COMMENTS

**1 PUBLIC COMMENTS**

N/A

## ACTION ITEMS

**2-A Consideration and Approval of the September 26, 2024 Regular Meeting Minutes.**

Director Esparza moved to approve the September 26, 2024, Regular Meeting Minutes. The motion was seconded by Treasurer Villarreal and carried unanimously.

**2-B Acknowledgement of Claims.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, went over the Claims and presented them into the record.

Director Esparza moved to acknowledge the Claims as presented. The motion was seconded by Director Garza and carried unanimously.

**The Claims are as follows:**

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Note: Vice Chairman Scaief joined the meeting at 12:05 P.M.

**2-C Approval of Claims.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, went over the Claims and presented them into the record. Staff recommends approval.

Director Garza moved to approve the Claims as presented. The motion was seconded by Secretary Nelson and carried unanimously.

**The Claims are as follows:**

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**2-D Consideration and Approval of the Financial Statements and Budget Amendments for the Months of August and September 2024.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, went over the Financial Statement and Budget Amendments for the months of August and September 2024. Mr. Sepulveda further advised that this was the second year in a row that the RMA received the GFOA Award. Mrs. Janett Huerta, RMA Toll Operations Administrator, went over the Toll Operation report for the month of September 2024.

Treasurer Villarreal moved to approve the Financial Statements and Budget Amendments for the months of August and September 2024. The motion was seconded by Director Esparza and carried unanimously.

**The Financials are as follows:**

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**2-E Consideration and Approval of Final Payment to SpawGlass for the Cameron County Veteran's Bridge DAP project and Approval of Release of Checks.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve the Final Payment to SpawGlass for the Cameron County Veteran's Bridge DAP Project and Approval of Release of Checks for an estimated amount of the following: Pay App #26 for $174,054.88; Pay App #27 for $97,702.34; and Closeout/Retainage for $877,034.65. Staff recommends approval.

Director Garza moved to approve the Final Payment to SpawGlass for the Cameron County Veterans Bridge DAP Project and Approval of Release of Checks. The motion was seconded by Secretary Nelson and carried unanimously.

**2-F Consideration and Approval of Change Order Number 15 with Via Plus for Cameron County Regional Mobility Authority to Continue with Access of the Back Office System.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve Change Order Number 15 with Via Plus for Cameron County Regional Mobility Authority to continue with Access of the Back Office System. Mr. Sepulveda further advised that this will extend the timeline to the end of January 2025. Staff recommends approval.

Vice Chairman Scaief moved to approve Change Order Number 15 with Via Plus for Cameron County Regional Mobility Authority to Continue with Access of the Back Office System. The motion was seconded by Director Esparza and carried unanimously.

**The Change Order is as follows:**

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**2-G Consideration and Approval of an Amended Interlocal Agreement Between the Cameron County Regional Mobility Authority and Cameron County for the West Boulevard Project.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve the Amended Interlocal Agreement between the Cameron County Regional Mobility Authority and Cameron County for the West Boulevard Project. Mr. Sepulveda further advised that the interlocal agreement was approved by Cameron County Commissioners' Court and is to finalize the environmental documents, schematic and preliminary drainage study. Staff recommends approval.

Secretary Nelson moved to approve an Amended Interlocal Agreement Between the Cameron County Regional Mobility Authority and Cameron County for the West Boulevard Project. The motion was seconded by Director Esparza and carried unanimously.

**The Amended Interlocal is as follows:**

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**2-H Consideration and Approval of an Interlocal Agreement Between the Cameron County Regional Mobility Authority and Cameron County regarding the Customs and Border Protection Donation Acceptance Program Project at Los Indios Free Trade Bridge.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve an Interlocal Agreement between the Cameron County Regional Mobility Authority and Cameron County regarding the Customs and Border Protection Donation Acceptance Program Project at Los Indios Free Trade Bridge. Mr. Sepulveda further advised that the Interlocal Agreement was approved by Cameron County Commissioners' Court for funding and approval. Staff recommends approval.

Vice Chairman Scaief moved to approve an Interlocal Agreement between the Cameron County Regional Mobility Authority and Cameron County regarding the Customs and Border Protection Donation Acceptance Program Project at Los Indios Free Trade Bridge. The motion was seconded by Director Esparza and carried unanimously.

**The Interlocal Agreement is as follows:**

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**2-I Consideration and Approval to Award Bid No. 2024-003 Los Indios Land Port of Entry Export Doc Renovation Project to Ziwa Corporation in the amount of $1,182,598.22.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve the Awarding of Bid No. 2024-003 Los Indios Land Port of Entry Export Doc Renovation Project to ZIWA Corporation in the amount of $1,182,598.22. Mr. Sepulveda further advised that two bids were received, one was non-responsive and the other was from ZIWA Corporation in the amount of $1,182,598.22. Staff recommends approval.

Secretary Nelson moved to approve to Award Bid No. 2024-003 Los Indios Port of Entry Export Doc Renovation Project to ZIWA Corporation in the amount of $1,182,598.22. The motion was seconded by Director Esparza and the motion carried as follows:

Ayes: Chairman Parker, Vice Chairman Scaief, Secretary Nelson, Director Esparza, and Director Garza
Nays: N/A
Abstain: Treasurer Villarreal

**2-J Consideration and Approval of a Construction Contract with ZIWA Corporation for the Los Indios Land Port of Entry Export Dock Renovation Project.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve a Construction Contract with ZIWA Corporation for the Los Indios Land Port of Entry Export Dock Renovation Project. Mr. Sepulveda further advised that the contract and backup were

prepared and provided to ZIWA Corporation. Staff recommends approval pending final legal review.

Director Esparza motion to approve a construction contract with Ziwa Corporation for the Los Indios Land Port of Entry Export Dock Renovation Project pending final legal review. The motion was seconded by Director Garza and the motion carried as follows:

Ayes: Chairman Parker, Vice Chairman Scaief, Secretary Nelson, Director Esparza, and Director Garza
Nays: N/A
Abstain: Treasurer Villarreal

**The Construction Contract is as follows:**

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**2-K Consideration and Approval of Amendment No. 2 to Professional Services Agreement between the Cameron County Regional Mobility Authority and R.R.P. Consulting Engineers, L.L.C. for the West Blvd. Project.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve Amendment No. 2 to Professional Services Agreement between the Cameron County Regional Mobility Authority and R.R.P. Consulting Engineers, L.L.C. for the West Blvd. Project. Mr. Sepulveda further advised that the amendment includes the schematic, preliminary drainage study and for environmental clearance. Mr. Sepulveda also informed the board that the funding for the amendment would be from the County as per the previously approved Interlocal Agreement. Staff recommends approval.

Secretary Nelson moved to approve Amendment No. 2 to Professional Services Agreement between the Cameron County Regional Mobility Authority and R.R.P. Consulting Engineers, L.L.C. for the West Blvd. Project. The motion was seconded by Director Esparza and carried unanimously.

**The Amendment is as follows:**

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**2-L Consideration and Approval of Supplemental Work Authorization No. 2 to Work Authorization No. 31 with R.R.P. Consulting Engineers, L.L.C. for Whipple Road.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve Supplemental Work Authorization No. 2 to Work Authorization No. 31 with R.R.P. Consulting Engineers, L.L.C. for Whipple Road. Mr. Sepulveda further advised that the Supplemental Work Authorization is for the preparation of Plans, Specifications, & Estimates (PS&E) and Environmental Services, since the road would connect Paredes Line Road to FM 1575. He also advised that we would we working with City of Los Fresnos and Cameron County for funding. Staff Recommends approval

Secretary Nelson moved to approve Supplemental Work Authorization No. 2 to Work Authorization No. 31 with R.R.P. Consulting Engineers, L.L.C. for Whipple Road. The motion was seconded by Director Garza and carried unanimously.

**The Supplemental Work Authorization is as follows:**

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**2-M Consideration and Possible Action on the Statement of Qualifications and Proposals received in response to the Request for Qualification for General Engineering Consultant Services 2024-002.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, informed the board of the need to approve the Statement of Qualifications and Proposals received in response to the Request for Qualification for General Engineering Consultant Services 2024-002. Mr. Sepulveda further advised that six proposals were submitted and three did not meet the qualifications. Mr. Sepulveda advised that he recommends the three engineering firms' contracts for General Engineering Consultant Services pending legal review. The three engineering firms are as follows: HDR Engineering; R.R.P. Consulting Engineers, LLC; and Civil Systems Engineering, Inc. Staff Recommends Approval.

Director Esparza moved to approve the Statement of Qualifications and Proposals received in response to the Request for Qualification for General Engineering Consultant Services 2024-002. The motion was seconded by Director Garza and carried unanimously.

**2-N Consideration and Approval of an Agreement between the Cameron County Regional Mobility Authority and HDR.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve an Agreement between the Cameron County Regional Mobility Authority and HDR subject to legal review. Staff Recommends Approval.

Director Esparza moved to approve an Agreement between Cameron County Regional Mobility Authority and HDR subject to legal review. The motion was seconded by Director Garza and carried unanimously.

**The Agreement is as follows:**

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**2-O Consideration and Approval of an Agreement between Cameron County Regional Mobility Authority and R.R.P. Consulting Engineers, Inc.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve an Agreement between the Cameron County Regional Mobility Authority and R.R.P. Consulting Engineers, Inc. subject to legal review. Staff Recommends Approval.

Director Esparza moved to approve an Agreement between Cameron County Regional Mobility Authority and R.R.P. Consulting Engineers, Inc. subject to legal review. The motion was seconded by Director Garza and carried unanimously.

**The Agreement is as follows:**

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**2-P Consideration and Approval of an Agreement between the Cameron County Regional Mobility Authority and Civil Systems Engineering, Inc.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve an Agreement between the Cameron County Regional Mobility Authority and Civil Systems Engineering, Inc. subject to legal review. Staff Recommends Approval.

Director Esparza moved to approve an Agreement between Cameron County Regional Mobility Authority and Civil Systems Engineering, Inc. subject to legal review. The motion was seconded by Director Garza and carried unanimously.

**The Agreement is as follows:**

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**2-Q Consideration and Authorization to Utilize Job Order Contract via Choice Partners with A & I Custom Manufacturing for Wall Renovation to the Cameron County Regional Mobility Authority Toll Operations Building.**

Mr. Alejandro Garcia, RMA Construction Manager, advised the board of the need to approve a Job Order Contract via Choice Partners with A & I Custom Manufacturing for Wall Renovation to the Cameron County Regional Mobility Authority Toll Operations Building. Mr. Pete Sepulveda, Jr., RMA Executive Director, advised that the contract is subject to legal review. Staff recommends approval.

Vice-Chairman Scaief moved to approve to Utilize Job Order Contract via Choice Partners with A & I Custom Manufacturing for Wall Renovation to the Cameron County Regional Mobility Authority Toll Operations Building pending final legal review. The motion was seconded by Director Esparza and carried unanimously.

**The Contract is as follows:**

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**2-R Consideration and Action to Approve an Order Authorizing Cameron County Regional Mobility Authority to Contract with the Texas Department of Motor Vehicles to Provide**

**Information to the Tx DMV Necessary to Carry Out "Flagging" of Vehicle Registration Records if a Fine, Fee, or Tax is Past Due, or if a Failure to appear is Pending Pursuant to Texas Transportation Code, Section 502.010; and Authorizing Cameron County Regional Mobility Authority to Enter into an Interlocal Agreement with the Tx DMV More Specifically Described as the "Scofflaw Services Contract for Marking Texas Motor Vehicle Registration Records" Relating to the Collection of Outstanding Monies Owed to Cameron County Regional Mobility Authority; and Authorize Cameron County Regional Mobility Authority to Submit Letter to the Tx DMV Authorizing Linebarger Goggan Blair & Sampson, LLP to Submit Files to the Tx DMV on Behalf of Cameron County Regional Mobility Authority.**

Mr. Pete Sepulveda, Jr., RMA Executive Director , advised the board of the need to approve an Order Authorizing Cameron County Regional Mobility Authority to Contract with the Texas Department of Motor Vehicles to Provide Information to the Tx DMV Necessary to Carry Out "Flagging" of Vehicle Registration Records if a Fine, Fee, or Tax is Past Due, or if a Failure to appear is Pending Pursuant to Texas Transportation Code, Section 502.010; and Authorizing Cameron County Regional Mobility Authority to Enter into an Interlocal Agreement with the Tx DMV More Specifically Described as the "Scofflaw Services Contract for Marking Texas Motor Vehicle Registration Records" Relating to the Collection of Outstanding Monies Owed to Cameron County Regional Mobility Authority; and Authorize Cameron County Regional Mobility Authority to Submit Letter to the Tx DMV Authorizing Linebarger Goggan Blair & Sampson, LLP to Submit Files to the Tx DMV on Behalf of Cameron County Regional Mobility Authority. Staff recommends approval.

Secretary Nelson moved to approve an Order Authorizing Cameron County Regional Mobility Authority to Contract with the Texas Department of Motor Vehicles to Provide Information to the Tx DMV Necessary to Carry Out "Flagging" of Vehicle Registration Records if a Fine, Fee, or Tax is Past Due, or if a Failure to appear is Pending Pursuant to Texas Transportation Code, Section 502.010; and Authorizing Cameron County Regional Mobility Authority to Enter into an Interlocal Agreement with the Tx DMV More Specifically Described as the "Scofflaw Services Contract for Marking Texas Motor Vehicle Registration Records" Relating to the Collection of Outstanding Monies Owed to Cameron County Regional Mobility Authority; and Authorize Cameron County Regional Mobility Authority to Submit Letter to the Tx DMV Authorizing Linebarger Goggan Blair & Sampson, LLP to Submit Files to the Tx DMV on Behalf of Cameron County Regional Mobility Authority. The motion was seconded by Treasurer Villarreal and the motion carried as follows:

Ayes: Chairman Parker, Vice Chairman Scaief, Treasurer Villarreal, and Secretary Nelson
Nays: N/A
Abstain: Director Esparza, and Director Garza

Affidavits were filed by Director Esparza and Director Garza

**The Order and Interlocal Agreement are as follows:**

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**2-S Consideration and Action to Approve an Agreement for Registration Refusal Services Between Cameron County Regional Mobility Authority and Linebarger Goggan Blair and Sampson, LLP.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve an Agreement for Registration Refusal Services Between Cameron County Regional Mobility Authority and Linebarger Goggan Blair and Sampson, LLP. Mr. Sepulveda introduced Mr. Jeffrey Garcia, Partner for Linebarger Goggan Blair and Sampson, LLP, to further explain the agreement. Mr. Garcia advised the board this agreement will have flagging mechanisms that prevent violators from renewing license plates until they settle their accounts with the Cameron County Regional Mobility Authority. Mr. Garcia also advised that he would be working with Harris County Toll Road Authority (HCTRA) to acquire the data needed to begin the process. Staff recommends approval.

Secretary Nelson moved to approve an Agreement for Registration Refusal Services Between Cameron County Regional Mobility Authority and Linebarger Goggan Blair and Sampson, LLP. The motion was seconded by Treasurer Villarreal and the motion carried as follows:

Ayes: Chairman Parker, Vice Chairman Scaief, Treasurer Villarreal, and Secretary Nelson
Nays: N/A
Abstain: Director Esparza, and Director Garza

Affidavits were filed by Director Esparza and Director Garza

**The Agreement is as follows:**

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**2-T Discussion and Possible Action Regarding the transition with Harris County Toll Road Authority.**

Mrs. Janett Huerta, RMA Toll Operations Administrator, provided an update on the transition with Harris County Toll Road Authority and advised the board that the Cameron County Bridges will be going live with Harris County Toll Road Authority (HCTRA) on November 15th, and they will stop with processing transactions on November 13th at 9:00 a.m. Mrs. Huerta further advised that HCTRA is recommending a wire transfer not to exceed the amount of $500,000 for escrow purposes. Staff recommends approval.

Vice Chairman Scaief moved to approve the discussion and action regarding the transition with Harris County Toll Road Authority. The motion was seconded by Director Esparza and carried unanimously.

**2-U Consideration and Possible Action on Emergency Procurement Pursuant to Section 11.1 of the Cameron County Regional Mobility Authority's Procurement Policy Due to the Emergency Created by Erosion on the SH 550 Toll Road.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve an

Emergency Procurement Pursuant to Section 11.1 of the Cameron County Regional Mobility Authority's Procurement Policy due to the Emergency Created by Erosion on SH 550 Toll Road. Mr. Sepulveda further advised that there are issues with erosion on the toll road section that is needing immediate repair. He also advised that there will be several options to look at and will compose a bid packet. Staff recommends approval.

Director Esparza moved to approve an Emergency Procurement Pursuant to Section 11.1 of the Cameron County Regional Mobility Authority's Procurement Policy Due to the Emergency Created by Erosion on the SH 550 Toll Road. The motion was seconded by Secretary Nelson and carried unanimously.

**2-V Consideration and Approval of Amendment No. 1 to Professional Engineering Consulting Services Agreement between the Cameron County Regional Mobility Authority and JWH & Associates for Engineering Services Relating to the Relocation of the Union Pacific Railroad Line in Harlingen and Updating of the Cameron County North Rail Alternative Study.**

Mr. Pete Sepulveda, Jr., RMA Executive Director, advised the board of the need to approve Amendment No. 1 to Professional Engineering Consulting Services Agreement between the Cameron County Regional Mobility Authority and JWH & Associates for Engineering Services relating to the relocation of the Union Pacific Railroad line in Harlingen and updating of the Cameron County North Rail Alternative Study. Mr. Sepulveda further advised that his amendment is to complete the study currently being worked on. Staff recommends approval.

Director Esparza moved to approve Amendment No. 1 to Professional Engineering Consulting Services Agreement between the Cameron County Reginal Mobility authority and JWH & Associates for Engineering Services Relating to the Relocation of the Union Pacific Railroad Line in Harlingen and Updating of the Cameron County Noth Rail Alternative Study. The motion was seconded by Director Garza and carried unanimously.

**The Amendment is as follows:**

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**Director Garza motioned to go into Executive Session at 1:15 pm. The motion was seconded by Secretary Nelson and carried unanimously.**

**3. EXECUTIVE SESSION**

**3-A Confer with Legal Counsel for the Cameron County Regional Mobility Authority Regarding the Employment Contract with the Cameron County Reginal Mobility Authority Executive Director, Pedro Sepulveda, jr., Including to Deliberate the Evaluation of the Executive Director Pursuant to V.T.C.A., Government Code, Section 551.071(2) and Section 551.0174.**

**3-B Confer with the Cameron County Reginal Mobility Authority Legal Counsel Regarding Legal Issues Related to Emergency Procurement Pursuant to Section 11.1 of the**

**Cameron County Reginal Mobility Authority's Procurement Policy Due to the Emergency Created by Erosion on the SH 550 Toll Road, Pursuant to V.T.C.A., Government Code, Section 551.071 (2).**

**Secretary Nelson motioned to come back from Executive Session at 1:30 pm. The motion was seconded by Treasurer Villarreal Esparza and carried unanimously.**

**4. Possible Action Relative to Executive Session**

**4-A Possible Action**

Treasurer Villarreal moved to acknowledge the report of legal counsel. The motion was seconded by Secretary Nelson and carried unanimously.

**4-B Possible Action**

Item 3-B was Tabled. No discussion in Executive Session.

Secretary Nelson moved to Table item 3-B. The motion was seconded by Director Garza and carried unanimously.

## ADJOURNMENT

There being no further business to come before the Board and upon motion by Treasurer Villarreal and seconded by Secretary Nelson and carried unanimously, the meeting was **ADJOURNED** at 1:31 P.M.

**APPROVED this _____ day of _____ 2024.**

**_____**
**CHAIRMAN FRANK PARKER, JR.**

**ATTESTED:_____**
**ARTURO A. NELSON, SECRETARY**

**2-B ACKNOWLEDGEMENT OF CLAIMS.**

# Claims for Acknowledgement

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims November 15, 2024**

**Operations**

| Vendor Name | Invoice Number | | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|---|
| Jose De Jesus Rocha Acosta | Contract JR 11.14.24 | $ | 1,765.04 | Trade Expos Anual del 30 Congresso de Comercio Exterior 24 | Indirect | Y | Local | Ope |
| | | | 1,765.04 | | | | | |

**Tolls**

| Vendor Name | Invoice Number | | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|---|
| Jose De Jesus Rocha Acosta | Contract JR 11.14.24 | $ | 1,765.04 | Trade Expos Anual del 30 Congresso de Comercio Exterior 24 | Indirect | Y | Local | Tolls |
| PEDRO SEPULVEDA JR. | Travel PSJ BTA 11.13 | | 2,492.81 | Travel Reimbursement BTA for PSJ 11.13.24 | Indirect | Y | Local | Tolls |
| | | | 4,257.85 | | | | | |

| | | |
|---|---|---|
| | Operations | 1,765.04 |
| | Tolls | 4,257.85 |
| | Total Transfer | 6,022.89 |

Reviewed by:

Monica R. Ibarra, Accountant — 11.15.24

Victor J. Barron, Chief Financial Officer — 11.15.24

Pete Sepulveda Jr, Executive Director — 11.15.24

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims November 14, 2024**

**Operations**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| Amazon Capital Services | 17G4-PJQD-PXWF | $ 22.32 | Office Supplies October 2024 | Indirect | Y | Local | Ope |
| CheckMark | 119054 10/24 | 56.25 | TimeClock Services Oct 2024 | Indirect | Y | Local | Ope |
| Alejandro Garcia | Travel AG 10/24 | 166.16 | Travel Reimbursement AG Oct 2024 | Indirect | Y | Local | Ope |
| GDJ Engineering | 2024-219 | 9,009.62 | MPO Proj October 2024 | Indirect | Y | Local | TRZ |
| MPC Studios, Inc | 34799 | 334.00 | Website Hosting November 2024 | Indirect | Y | Local | Ope |
| Pathfinder Public Affairs, Inc | 82 | 12,000.00 | Consulting Services Oct 2024 | Indirect | Y | Local | Ope |
| R.R.P. Consulting Engineers, L.L.C. | U2716.400-20 | 288.91 | SH 550 Gap II September 2024 | SH550 GAP II | Y | Local | TRZ |
| Staples Business Credit | 7002723540 | 334.99 | Office Furniture October 2024 | Indirect | Y | Local | Ope |
| Rentfro, Irwin, & Irwin, P.L.L.C | 2677 | 6,235.00 | Legal Services Oct 2024 | Indirect | Y | Local | Ope |
| Valley Municipal Utility District | 2030007806 10/24 | 37.15 | Water & wastewater Ste 7 Oct 2024 | Indirect | Y | Local | Ope |
| Valley Municipal Utility District | 2030007907 10/24 | 37.15 | Water & wastewater Ste 6 Oct 2024 | Indirect | Y | Local | Ope |
| Valley Municipal Utility District | 2030008005 10/24 | 37.57 | Water & wastewater Ste 4 Oct 2024 | Indirect | Y | Local | Ope |
| Valley Municipal Utility District | 2030008105 10/24 | 37.15 | Water & Wastewater Ste 3 Oct 2024 | Indirect | Y | Local | Ope |
| Valley Municipal Utility District | 2030008306 10/24 | 37.15 | Water & wastewater Ste 8 Oct 2024 | Indirect | Y | Local | Ope |
| Valley Municipal Utility District | 2030008406 10/24 | 36.76 | Water & wastewater Ste 5 Oct 2024 | Indirect | Y | Local | Ope |
| | | 28,670.18 | | | | | |

**Interlocal Agreement**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| GDJ Engineering | 2024-223 | $ 6,101.36 | Stenger Rd TASA Proj October 2024 | Stenger Rd TASA | Y | Local | Ope |
| GDJ Engineering | 2024-184 | 3,234.72 | US 281 Connector Proj August 2024 | 281 Connector | Y | Local | Ope |
| GDJ Engineering | 2024-228 | 4,624.73 | Los Fresnos Hike & Bike Proj October 2024 | COLF Hike & Bike Trail Project | Y | Local | Restri |
| R.R.P. Consulting Engineers, L.L.C. | U2716.400-20 | 1,155.62 | SH 550 Gap II September 2024 | SH550 GAP II | Y | Local | Ope |
| | | 15,116.43 | | | | | |

**Tolls**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| Amazon Capital Services | 17G4-PJQD-PXWF | $ 307.22 | Office Supplies October 2024 | Indirect | Y | Local | Tolls |
| Fagan Consulting LLC | BOS-2410 | 5,906.14 | Back Office System Transition Support Oct 2024 | Indirect | Y | Local | Tolls |
| FRANCISCO J SANMIGUEL | Travel SH550 FSM | 873.28 | Travel Reimbursement SH550 FSM | Indirect | Y | Local | Tolls |
| NSA Property Holdings LLC d/b/a Move It Storage-Los Fresnos | Unit #923 11/24 | 321.00 | Storage Unit #923 November 2024 | Indirect | Y | Local | Tolls |
| Rentfro, Irwin, & Irwin, P.L.L.C | 2677 | 698.75 | Legal Services Oct 2024 | Indirect | Y | Local | Tolls |
| Valley Municipal Utility District | 3010066802 10/24 | 54.32 | Water & wastewater Tolls Oct 2024 | Indirect | Y | Local | Tolls |
| | | 8,160.71 | | | | | |

| | |
|---|---|
| Operations | 28,670.18 |
| Interlocal Agree | 15,116.43 |
| Tolls | 8,160.71 |
| Total Transfer | 51,947.32 |

Reviewed by:

Monica R. Ibarra, Accountant — 11.13.24

Victor J. Barron, Chief Financial Officer — 11.14.24

Pete Sepulveda Jr, Executive Director — 11.14.24

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims November 12, 2024**

**Tolls**

| Vendor Name | Invoice Number | | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|---|
| HCTRA | Cash/Check Nov 4 | $ | 208.96 | Cash/Check Deposits November 4 2024 | Indirect | Y | Local | Tolls |
| HCTRA | Cash/Check Nov 5 | | 221.72 | Cash/Check Deposits November 5 2024 | Indirect | Y | Local | Tolls |
| HCTRA | Cash/Check Nov 6 | | 520.29 | Cash/Check Deposits November 6 2024 | Indirect | Y | Local | Tolls |
| HCTRA | Cash/Check Nov 7 | | 291.25 | Cash/Check Deposits November 7 2024 | Indirect | Y | Local | Tolls |
| HCTRA | Cash/Check Nov 8 | | 97.59 | Cash/Check Deposits November 8 2024 | Indirect | Y | Local | Tolls |
| | | | 1,339.81 | | | | | |

| | |
|---|---|
| Tolls | 1,339.81 |
| Total Transfer | 1,339.81 |

Reviewed by:

Monica R. Ibarra, Accountant — 11.12.24

Victor J. Barron, Chief Financial Officer — 11.12.24

Pete Sepulveda Jr, Executive Director — 11.13.24

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims November 7, 2024**

**Operations**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| Alliance for Interstate 69 Texas | I-69 Annual Meeting | $ 2,500.00 | Sponsorship for I-69 2024 Annual Meeting Bronze | Indirect | Y | Local | Ope |
| American Express | AMEX Oct 2024 | 5,722.89 | Credit Card Charges October 2024 | Indirect | Y | Local | Ope |
| Culligan of the Rio Grande Valley | 320895 10/24 | 43.95 | Bottled Water Delivery Oct 2024 | Indirect | Y | Local | Ope |
| Direct Energy Business, LLC | 242950055499340 | 49.71 | Electricity Ste 7 Oct 2024 | Indirect | Y | Local | Ope |
| Direct Energy Business, LLC | 242950055499341 | 127.56 | Electricity Ste 3 Oct 2024 | Indirect | Y | Local | Ope |
| Direct Energy Business, LLC | 242950055499343 | 77.62 | Electricity Ste 4 Oct 2024 | Indirect | Y | Local | Ope |
| Direct Energy Business, LLC | 242950055499342 | 99.58 | Electricity Ste 5 Oct 2024 | Indirect | Y | Local | Ope |
| Harlingen Area Chamber of Commerce | State of the State | 1,500.00 | Sponsorship for State of State Luncheon Legislative | Indirect | Y | Local | Ope |
| Lone Star Shredding Document Storage | 2001971 | 157.50 | Shredding Services Oct 2024 | Indirect | Y | Local | Ope |
| MGT Impact Solutions, LLC | 64225 | 1,750.00 | Networking Installation Includes staging, physical installat | Indirect | Y | Local | Ope |
| MPark Consulting, LLC | 2 | 1,537.25 | Professional Service Agree On-Call for CBP Proj Oct 2024 | Indirect | Y | Local | Ope |
| PEDRO SEPULVEDA JR. | Travel PSJ Oct 2024 | 2,243.72 | Travel Reimbursement PSJ Oct 2024 | Indirect | Y | Local | Ope |
| Republic Services | 0863-002628072 | 140.26 | Waste Container Nov 2024 | Indirect | Y | Local | Ope |
| Verizon Wireless | 9977032308 | 75.98 | Internet HotSpot Oct 2024 | Indirect | Y | Local | Ope |
| | | 16,026.02 | | | | | |

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| American Express | AMEX Oct 2024 | $ 31.84 | Credit Card Charges October 2024 | Indirect | Y | Local | Tolls |
| Culligan of the Rio Grande Valley | 320895 10/24 | 57.95 | Bottled Water Delivery Oct 2024 | Indirect | Y | Local | Tolls |
| Direct Energy Business, LLC | 242950055499344 | 405.22 | Electricity Tolls Oct 2024 | Indirect | Y | Local | Tolls |
| Direct Energy Business, LLC | 242960055509540 | 229.52 | Electricity 570 FM 511 Oct 2024 | Direct Connectors - SH550 | Y | Local | Tolls |
| Direct Energy Business, LLC | 242960055509541 | 399.92 | Electricity 1895 FM 511 #1 Oct 2024 | FM1847 - SH550 | Y | Local | Tolls |
| Direct Energy Business, LLC | 242960055510337 | 77.23 | Electricity 1505 FM 511 Oct 2024 | Direct Connectors - SH550 | Y | Local | Tolls |
| Direct Energy Business, LLC | 242960055510338 | 58.95 | Electricity 1705 FM 511 Oct 2024 | Direct Connectors - SH550 | Y | Local | Tolls |
| Eric Davila | Travel ED Oct 2024 | 1,565.56 | Travel Reimbursement ED IBTTA Oct 2024 | Indirect | Y | Local | Tolls |
| Prisciliano Delgado | 10623 | 250.00 | Lawn Care Oct 2024 | Indirect | Y | Local | Tolls |
| Public Utilities Board | 600710 10/24 | 205.66 | Electricity 1100 FM 511 Hwy Bro Oct 2024 | Direct Connectors - SH550 | Y | Local | Tolls |
| Verizon Wireless | 9977032308 | 75.98 | Internet HotSpot Oct 2024 | Indirect | Y | Local | Tolls |
| | | 3,357.83 | | | | | |

| | |
|---|---|
| Operations | 16,026.02 |
| Tolls | 3,357.83 |
| Total Transfer | 19,383.85 |

Reviewed by:

Monica R. Ibarra, Accountant — 11.7.24

Victor J. Barron, Chief Financial Officer — 11.7.24

Pete Sepulveda Jr, Executive Director — 11.7.24

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims November 4, 2024**

**Tolls**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| HCTRA | Cash/Check Oct 28-Nov 1 | $ 7,780.39 | Cash/Check Deposits Oct 28-Nov 1 2024 | Indirect | Y | Local | Tolls |
| | | 7,780.39 | | | | | |

| | |
|---|---|
| Tolls | 7,780.39 |
| Total Transfer | 7,780.39 |

Reviewed by:

Monica R. Ibarra, Accountant — 11.4.24

Victor J. Barron, Chief Financial Officer — 11.4.24

Pete Sepulveda Jr, Executive Director — Pete Sepulveda, Jr. 11.04.24

CAMERON COUNTY REGIONAL MOBILITY AUTHORITY
**Claims October 31, 2024**

**Operations**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| Diamante Super Clean | 11-021 | $ 850.00 | Janitorial Services Oct 2024 | Indirect | Y | Local | Ope |
| Lily Anne Garcia | Travel LG 10.24.24 | 2.68 | Travel Reimbursement LG Oct 2024 | Indirect | Y | Local | Ope |
| South Padre Island Chamber of Commerce | SPI Night by the Sea | 900.00 | SPI A Night By The Sea Gala Table Sponsor | Indirect | Y | Local | Ope |
| | | 1,752.68 | | | | | |

**Tolls**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| Janett Huerta | Travel JH 10.24.24 | $ 102.55 | Travel Reimbursement JH 10.24.24 | Indirect | Y | Local | Tolls |
| Lily Anne Garcia | Travel LG 10.24.24 | 145.56 | Travel Reimbursement LG Oct 2024 | Indirect | Y | Local | Tolls |
| | | 248.11 | | | | | |

| | |
|---|---|
| Operations | 1,752.68 |
| Tolls | 248.11 |
| Total Transfer | 2,000.79 |

Reviewed by:

Monica R. Ibarra, Accountant — 10.31.24

Victor J. Barron, Chief Financial Officer — 10/31/24

Pete Sepulveda Jr, Executive Director — 10/31/24

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims October 28, 2024**

**Tolls**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| HCTRA | Cash/Check Oct 21-25 | $ 264.91 | Cash/Check Deposits Oct 21-25 2024 | Indirect | Y | Local | Tolls |
| | | 264.91 | | | | | |
| | Tolls | 264.91 | | | | | |
| | Total Transfer | 264.91 | | | | | |

Reviewed by:

Monica R. Ibarra, Accountant — 10.28.24

Victor J. Barron, Chief Financial Officer — 10.30.24

Pete Sepulveda Jr, Executive Director — 10.31.24

**2-C APPROVAL OF CLAIMS.**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**
**Claims November 21, 2024**

**Operations**

| Vendor Name | Invoice Number | | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|---|
| Texas County District Retirement System | TCDRS Oct 2024 | $ | 14,803.84 | TCDRS October 2024 | Indirect | Y | Local | Ope |
| TML Health Benefits Pool | PCAMERO62412 | | 12,969.42 | Employee Health Benefits December 2024 | Indirect | Y | Local | Ope |
| | | | 27,773.26 | | | | | |

**Interlocal Agreement**

| Vendor Name | Invoice Number | | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|---|
| GDJ Engineering | 2024-229 | $ | 18,294.97 | US 281 Connector Proj October 2024 | 281 Connector | Y | Local | Ope |
| | | | 18,294.97 | | | | | |

**Tolls**

| Vendor Name | Invoice Number | Cash Required | Invoice/Credit Description | PROJ Title | Transfer Funds | Funding Source | Bank Account |
|---|---|---|---|---|---|---|---|
| Kapsch TrafficCom USA, Inc | 486025SI01310 | $ 22,520.70 | Toll System Maintenance October 2024 | Indirect | Y | Local | Tolls |
| Texas County District Retirement System | TCDRS Oct 2024 | 5,687.75 | TCDRS October 2024 | Indirect | Y | Local | Tolls |
| TML Health Benefits Pool | PCAMERO62412 | 10,991.02 | Employee Health Benefits December 2024 | Indirect | Y | Local | Tolls |
| | | 39,199.47 | | | | | |

| | | |
|---|---|---|
| | Operations | $ 27,773.26 |
| | Interlocal Agree | 18,294.97 |
| | Tolls | 39,199.47 |
| | Total Transfer | $ 85,267.70 |

Reviewed by:

Victor J. Barron, Chief Financial Officer — 11.15.24

Pete Sepulveda Jr, Executive Director — 11.15.24

**2-D CONSIDERATION AND APPROVAL OF AN AMENDED INTERLOCAL AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND CAMERON COUNTY REGARDING THE OUTER PARKWAY PROJECT.**

Contract No. 2024C11459

**STATE OF TEXAS** )(
)(
**CAMERON COUNTY** )(

**AMENDED AND RESTATED INTERLOCAL COOPERATION AGREEMENT**

THIS INTERLOCAL COOPERATION AGREEMENT ("Interlocal Cooperation Agreement") is entered into by and between the CAMERON COUNTY, TEXAS, hereinafter referred to as "COUNTY", and the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY, hereinafter referred to as "CCRMA", pursuant to V.T.C.A., Government Code, and Chapter 791, whereby:

**WHEREAS**, the CCRMA is a regional mobility authority created pursuant to the request of COUNTY and operating pursuant to Chapter 370 of the Texas Transportation Code (the "RMA Act") and 43 TEX. ADMIN. CODE §§ 26.1 *et seq.* (the "RMA Rules"); and

**WHEREAS**, the CCRMA, and the COUNTY, are each units of "local government" as defined in TEX. GOV'T CODE § 791.003(4); and

**WHEREAS,** Chapter 791 of the Texas Government Code provides that local governments may contract with each other for the performance of governmental functions and services, administrative functions as well as the purchase of goods and services in which the contracting parties are mutually interested; and

**WHEREAS**, the CCRMA and the COUNTY hereby find that this Interlocal Cooperation Agreement will increase the efficiency and effectiveness of the CCRMA and the COUNTY, as contemplated by TEX. GOV'T CODE § 791.001; and

**WHEREAS**, Section 370.033 of the RMA Act provides that a regional mobility authority may enter into contracts or agreements with another governmental entity; and

**WHEREAS**, the COUNTY and the CCRMA hereby find that the services pursuant to this Interlocal Agreement are reasonably required and that this Interlocal Agreement includes an agreement between the CCRMA and the COUNTY pursuant to TEX. GOV'T CODE § 791.025 to the extent applicable; and

**WHEREAS**, on March 14, 2023, the CCRMA and COUNTY entered into an Interlocal Agreement regarding the Outer Parkway Project and there is now a need to amend the Interlocal Agreement to identify the funding source for the project as ARPA funds; and

**WHEREAS, CAMERON COUNTY** is a recipient of Coronavirus State and Local Fiscal Recovery Funds enacted by the American Rescue Plan Act. As a recipient, the County is to use these funds to respond to economic and public health impacts of COVID-19 and/or for water, sanitary sewer, or infrastructure projects.

**NOW**, **THEREFORE**, the COUNTY and the CCRMA agree to the following terms:

1. PURPOSE OF INTERLOCAL COOPERATIVE AGREEMENT: To authorize the CCRMA to complete the final environmental document (EA) and schematics for the Outer Parkway Project as well as negotiations with U.S. Army Corps of Engineers, Coast Guard, USFWS, TPWD and other state and federal agencies including coordination with TxDOT as well as any other coordination required by TxDOT.

2. PROJECT TO BE COMPLETED: To complete the final environmental document (EA) for the Outer Parkway Project and coordinate approval of environmental clearance with TxDOT.

3. CCRMA HEREBY AGREES TO:

   a. To coordinate with the Texas Department of Transportation (TxDOT) the necessary approvals for environmental document (EA) and schematics and coordinate with any state and federal agencies, including U.S. Army Corps of Engineers, Coast Guard, USFWS, TPWD and other agencies on any issues arising during the environmental phase.
   b. To provide monthly progress reports of activities to the COUNTY.
   c. To Coordinate with TxDOT the approval of Environmental clearance.
   d. Sub-recipient shall prepare and submit a quarterly activity and expenditure report to Cameron County.

4. COUNTY HEREBY AGREES TO:

   a. Cameron County will grant $3,000,000.00 to sub-recipient to be used to complete the final environmental document (EA) for the Outer Parkway Project and coordinate approval of environmental clearance with TxDOT of the project that will be performed by and through the CCRMA according to the approved Project Application included as "Exhibit A."
   b. Cameron County reserves the right to perform periodic on-site monitoring of Sub-recipient's compliance with the terms and conditions of this Agreement and the adequacy and timeliness of Sub-recipient's performances. After each monitoring visit, Cameron County shall provide Sub-recipient with written report of the monitor's findings.

5. It is specifically understood and agreed that in the event insufficient funds are appropriated and/or budgeted concerning the obligations under this Interlocal Cooperation Agreement on behalf of either of the Parties, then the Party with the insufficient funds shall notify the other Parties and this Interlocal Cooperation Agreement shall thereafter terminate and be null and void on the last day of the fiscal period for which appropriations were made without penalty, liability, or expense to the Party.

6. Any payment made by either party will be made from current revenues of the paying party. The funds for the above-mentioned work will be provided by the COUNTY. The County will use ARPA funds. The CCRMA and COUNTY hereby find that the foregoing goods and services are reasonably required for the Outer Parkway Project.

7. This Interlocal Cooperation Agreement constitutes a one-time Agreement between the Parties and does not constitute a continuing Agreement for the COUNTY and, CCRMA. This Interlocal Cooperation Agreement expires upon the first to occur of when the Projects are completed, or a 30-day termination notice is given by either COUNTY or CCRMA.

8. The Rules, Regulations and Orders of the CCRMA shall govern this Interlocal Cooperation Agreement and the Parties agree that the CCRMA shall supervise the performance of this Interlocal Cooperation Agreement. It is also agreed that the CCRMA has the authority to employ personnel to engage in other administrative or governmental functions and services necessary to fulfill the terms of this Agreement.

9. This Interlocal Cooperation Agreement shall have no legal force or effect until such time as it is properly Adopted and Approved by the CAMERON COUNTY COMMISSIONERS COURT and the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY BOARD OF DIRECTORS.

Executed on this 5th day of November, 2024.

Attested by:

Sylvia Garza Perez
County Clerk

Eddie Treviño, Jr.
County Judge

COMMISSIONER'S COURT ★ CAMERON COUNTY, TEXAS ★

Arturo A. Nelson
Secretary

Frank Parker, Jr.
CCRMA Chairman

# STATE & LOCAL FISCAL RECOVERY FUNDS
# INFRASTRUCTURE PROJECT APPLICATION
**(Water, Sewer and Broadband Projects)**

**Organization's Name:** Cameron County

**Address:** 1100 E. Monroe

**Contact's Name:** Anthony Lopez

**Contact's Email:** Anthony.Lopez@co.cameron.tx.us

**Contact's Phone #:** 956.544.0830

**Federal ID#:**

**SAM.gov Registration:** No Yes

**Organization's POC Email Address:** Anthony.Lopez@co.cameron.tx.us

**Project Name:** Outer Parkway

**Project Location:** Northern Cameron County

**Project Cost:** $3,000,000 **Request Amount:** $3,000,000 **Applicant's Share:**

**Project's Start Date:**

**Project's Completion Date:**

**Project Type:** _____Water _____Wastewater _____Broadband

__X__Engineering Services _____Right-of-Way Acquisition _____Construction

**Brief Project Description:**

The Outer Parkway Project is approximately 21.5 miles long and includes the construction of a new four lane tolled divided highway from I69E (U.S. 77) near the North Cameron County Line to FM 1847. The project will link the General Brant Road Project with I69E (U.S. 77). The total construction cost is approximately $200 million. A corridor study was prepared for the project and the preparation of an environmental document began in December 2016. It will tie into the I69 Connector from Edinburg. This would allow for a road from Edinburg to South Padre Island. The funding would be sufficient to complete the environmental phase.

**If necessary, please use additional page and include a Project Schedule as an Exhibit.**
**Please contact victor.trevino@co.cameron.tx.us for any questions.**

**2-E CONSIDERATION AND APPROVAL OF AN AMENDED INTERLOCAL AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND CAMERON COUNTY REGARDING THE FLOR DE MAYO PROJECT.**

Contract No. 2024C11460

**STATE OF TEXAS** )(
)(
**CAMERON COUNTY** )(

**AMENDED AND RESTATED INTERLOCAL COOPERATION AGREEMENT**

THIS INTERLOCAL COOPERATION AGREEMENT ("Interlocal Cooperation Agreement") is entered into by and between the CAMERON COUNTY, TEXAS, hereinafter referred to as "COUNTY", and the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY, hereinafter referred to as "CCRMA", pursuant to V.T.C.A., Government Code, and Chapter 791, whereby:

**WHEREAS**, the CCRMA is a regional mobility authority created pursuant to the request of COUNTY and operating pursuant to Chapter 370 of the Texas Transportation Code (the "RMA Act") and 43 TEX. ADMIN. CODE §§ 26.1 *et seq.* (the "RMA Rules"); and

**WHEREAS**, the CCRMA, and the COUNTY, are each units of "local government" as defined in TEX. GOV'T CODE § 791.003(4); and

**WHEREAS,** Chapter 791 of the Texas Government Code provides that local governments may contract with each other for the performance of governmental functions and services, administrative functions as well as the purchase of goods and services in which the contracting parties are mutually interested; and

**WHEREAS**, the CCRMA and the COUNTY hereby find that this Interlocal Cooperation Agreement will increase the efficiency and effectiveness of the CCRMA and the COUNTY, as contemplated by TEX. GOV'T CODE § 791.001; and

**WHEREAS**, Section 370.033 of the RMA Act provides that a regional mobility authority may enter into contracts or agreements with another governmental entity; and

**WHEREAS**, the COUNTY and the CCRMA hereby find that the services pursuant to this Interlocal Agreement are reasonably required and that this Interlocal Agreement includes an agreement between the CCRMA and the COUNTY pursuant to TEX. GOV'T CODE § 791.025 to the extent applicable; and

**WHEREAS**, on May 14, 2019, the CCRMA and COUNTY entered into an Interlocal Agreement regarding the Flor de Mayo International Bridge Project and there is now a need to amend the Interlocal Agreement to identify the funding source for the project as ARPA funds; and

**WHEREAS, CAMERON COUNTY** is a recipient of Coronavirus State and Local Fiscal Recovery Funds enacted by the American Rescue Plan Act. As a recipient, the County is to use these funds to respond to economic and public health impacts of COVID-19 and/or for water, sanitary sewer, or infrastructure projects.

**NOW**, **THEREFORE**, the COUNTY and the CCRMA agree to the following terms:

1. PURPOSE OF INTERLOCAL COOPERATIVE AGREEMENT: To advance the future Flor de Mayo International Bridge, hereinafter referred to as the "Project", through the Development Phase leading to the Construction Phase.

2. PROJECT TO BE COMPLETED: To coordinate the development of the future Flor de Mayo International Bridge through the different development phases leading to the construction phase. This includes Feasibility studies, Diplomatic Notes between the U.S. and Mexico, Schematic Layouts, Environmental Assessment, State of Texas Bridge Permit process, Presidential Permit

process, development of Engineering Plans, coordination with International Boundary and Water Commission (IBWC), General Services Administration (GSA), Customs and Border Protection (CBP), U.S. Coast Guard (USCGS), U.S. Fish & Wildlife Service (USFWS), Federal Highway Administration (FHWA), Texas Parks & Wildlife (TPWD) and the Texas Department of Transportation (TxDOT) and any other state and federal agencies needed. Coordination with Mexican agencies will be included as well, including Secretaria de Relaciones Exteriores (SRE) and Secretaria de Comunicaciones Y Transportes (SCT), the State of Tamaulipas and the City of Matamoros.

3. CCRMA HEREBY AGREES TO:

   a. To jointly serve as Project Sponsor with Cameron County;
   b. To coordinate with the United States and Mexico for the exchange of U.S. Department of State and Mexico Diplomatic notes;
   c. To coordinate with the TxDOT and FHWA and the Metropolitan Planning Organization on any funding opportunities;
   d. To provide the County quarterly progress reports of activities;
   e. To develop project cost estimates and a schedule for the Project and provide updates of each quarterly;
   f. To provide for early consultations with the environmental agencies, state and federal and prepare the environmental document;
   g. To coordinate with the U.S. Department of State, GSA, CBP, IBWC, USFWS, USCGS, TPWD, TxDOT, FHWA, SRE and SCT throughout the development phase;
   h. To develop the State of Texas Bridge Permit Application;
   i. To develop the Presidential Permit Application through the U.S. Department of State.
   j. Sub-recipient shall prepare and submit a quarterly activity and expenditure report to Cameron County.

4. COUNTY HEREBY AGREES TO:

   a. To support the CCRMA in its efforts to secure a Presidential Permit from the U.S. Department of State and a State Bridge Permit from TxDOT; and
   b. Cameron County will grant $1,000,000.00 to sub-recipient to be used for the NEPA process of the project that will be performed by and through the CCRMA according to the approved Project Application included as "Exhibit A."
   c. Cameron County reserves the right to perform periodic on-site monitoring of Sub-recipient's compliance with the terms and conditions of this Agreement and the adequacy and timeliness of Sub-recipient's performances. After each monitoring visit, Cameron County shall provide Sub-recipient with written report of the monitor's findings.

5. It is specifically understood and agreed that in the event insufficient funds are appropriated and/or budgeted concerning the obligations under this Interlocal Cooperation Agreement on behalf of either of the Parties, then the Party with the insufficient funds shall notify the other Parties and this Interlocal Cooperation Agreement shall thereafter terminate and be null and void on the last day of the fiscal period for which appropriations were made without penalty, liability, or expense to the Party.

6. Any payment made by either party will be made from current revenues of the paying party. The funds for the above-mentioned work will be provided by the COUNTY. The County will use ARPA funds. The CCRMA and COUNTY hereby find that the foregoing goods and services are reasonably required for the Outer Parkway Project.

7. This Interlocal Cooperation Agreement constitutes a one-time Agreement between the Parties and does not constitute a continuing Agreement for the COUNTY and, CCRMA. This Interlocal Cooperation Agreement expires upon the first to occur of when the Projects are completed, or a 30-day termination notice is given by either COUNTY or CCRMA.

8. The Rules, Regulations and Orders of the CCRMA shall govern this Interlocal Cooperation Agreement and the Parties agree that the CCRMA shall supervise the performance of this Interlocal Cooperation Agreement. It is also agreed that the CCRMA has the authority to employ personnel to engage in other administrative or governmental functions and services necessary to fulfill the terms of this Agreement.

9. This Interlocal Cooperation Agreement shall have no legal force or effect until such time as it is properly Adopted and Approved by the CAMERON COUNTY COMMISSIONERS COURT and the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY BOARD OF DIRECTORS.

Executed on this 5th day of November, 2024.

Attested by:

Sylvia Garza Perez
County Clerk

Eddie Treviño, Jr.
County Judge

COMMISSIONER'S COURT ★ CAMERON COUNTY, TEXAS ★ TEXAS

Arturo A. Nelson
Secretary

Frank Parker, Jr.
CCRMA Chairman

**2-F CONSIDERATION AND APPROVAL OF AN INTERLOCAL AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY.**

**2-G CONSIDERATION AND APPROVAL OF AN INTERLOCAL AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND MILITARY HIGHWAY WATER SUPPLY CORPORATION.**

**STATE OF TEXAS** )(
)(
**CAMERON COUNTY** )(

## INTERLOCAL COOPERATION AGREEMENT

THIS INTERLOCAL COOPERATION AGREEMENT is entered into by and between the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY, hereinafter referred to as "CCRMA" and MILITARY HIGHWAY WATER SUPPLY CORPORATION, hereinafter referred to as "MHWSC", pursuant to V.T.C.A., Government Code, and Chapter 791, whereby:

1. PURPOSE OF INTERLOCAL COOPERATION AGREEMENT: To allow the CCRMA to develop Utility Conflict Construction Design plans for MHWSC for the adjustment of utilities along US 281.

2. PROJECT TO BE COMPLETED: CCRMA to perform Utility Conflict Construction Design services for utility adjustments along US 281.

3. CCRMA HEREBY AGREES TO:

   a. Utilize one of the CCRMA's consultants to perform professional engineering services for Utility Conflict Construction Design Plans for MHWSC utility adjustment project along US Highway 281
   b. Provide monthly progress reports of activities to the MHWSC.
   c. Manage the project utilizing CCRMA staff and consultants.

4. MHWSC HEREBY AGREES TO:

   a. To provide funding in the amount of $1,022,926.00 for Utility Conflict Construction Design Plans.

5. It is specifically understood and agreed that in the event insufficient funds are appropriated and/or budgeted concerning the obligations under this Interlocal Cooperation Agreement on behalf of either of the Parties, then the Party with the insufficient funds shall notify the other Parties and this Interlocal Cooperation Agreement shall thereafter terminate and be null and void on the last day of the fiscal period for which appropriations were made without penalty, liability or expense to the Party.

6. Any payment made by MHWSC will be made from ARPA grant funds received as sub-recipient by and through a Contract Agreement with Cameron County.

7. This Interlocal Cooperation Agreement constitutes a one-time Agreement between the Parties and does not constitute a continuing Agreement for the CCRMA and MHWSC. The Interlocal Cooperation Agreement expires when the Projects are completed or a 30-day termination notice is given by either CCRMA or MHWSC.

8. The Rules, Regulations and Orders of the CCRMA shall govern this Interlocal Cooperation Agreement and the Parties agree that the CCRMA shall supervise the performance of this Interlocal Cooperation Agreement. It is also agreed that the CCRMA has the authority to employee personnel to engage in other administrative or governmental functions and services necessary to fulfill the terms of this Agreement.

9. The CCRMA and MHWSC hereby find that the foregoing goods and governmental functions and services are reasonably required for the Project and this Interlocal Agreement includes an agreement

between the CCRMA and MHWSC pursuant to Tex. Gov't Code Section 791.025 to the extent applicable.

10. This Interlocal Cooperation Agreement shall have no legal force or effect until such time as it is properly Adopted and Approved by the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY BOARD OF DIRECTORS and the MILITARY HIGHWAY WATER SUPPLY CORPORATION BOARD OF DIRECTORS.

Executed on this 21st day of November, 2024.

Attested by:_____

Arturo A. Nelson
CCRMA Secretary

_____

Frank Parker, Jr.
CCRMA Chairman

Attested by:_____

Cipriano Naranjo
MHWSC Secretary

_____

Santiago Sanchez
President

**2-H CONSIDERATION AND APPROVAL OF INTERLOCAL AGREEMENT FOR LEGISLATIVE SERVICES BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND CAMERON COUNTY.**

STATE OF TEXAS §
§ Contract No._____
COUNTY OF CAMERON §

INTERLOCAL AGREEMENT BETWEEN
CAMERON COUNTY AND CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

This Interlocal Agreement is entered into between the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY, hereinafter referred to as "CCRMA" and the COUNTY OF CAMERON, TEXAS, hereinafter referred to as "County" pursuant to V.T.C.A., Government Code, Chapter 791, cited as the Interlocal Cooperation Act.

1. LOCATION OF PROJECT: Cameron County, Texas

2. PROJECT TO BE COMPLETED: Pursuant to TEX. LOCAL GOV'T CODE § 791.025, to the extent applicable, Cameron County will utilize the CCRMA's Consultant, Pathfinders Public Affairs, to assist with legislation and other issues associated with the 89th Legislative session and the Special Sessions as well as any future Special Sessions and the upcoming 89th Legislative session. Consultant will assist County with any legislative issues that may arise as a result of legislation recently passed during the 89th Legislature. Consultant will report directly to County for any issues associated with the County.

3. The base cost of the services and the amount of this Interlocal Agreement is $120,000.00 which will be paid by Cameron County. The funds to be paid by Cameron County will be paid from current revenues of Cameron County. Cameron County will receive monthly reports from the CCRMA's Consultant.

4. The rules, regulations and orders of the CCRMA shall govern this Interlocal Agreement and the parties agree that the CCRMA shall supervise the performance of this Interlocal Agreement. It is also agreed that the CCRMA has the authority to employ additional personnel to engage in other administrative services necessary to fulfill the terms of this Interlocal Agreement. In that event, County agrees to reimburse CCRMA for employing additional personnel.

5. The Interlocal Agreement shall have no legal force or effect until such time as it is properly adopted and approved by the Cameron County Regional Mobility Authority Board of Directors and the Cameron County Commissioners Court. The Interlocal Agreement will cover the period from January 1, 2025 and will terminate on December 31, 2025, unless extended by action of both CCRMA and COUNTY.

EXECUTED ON the ___ day of November 2024.

_____
Eddie Treviño, Jr.
Cameron County Judge

_____
Frank Parker, Jr., Chairman
Cameron County Regional Mobility Authority

Attested By:

Attested By:

_____
Sylvia Garza Perez, County Clerk

_____
Arturo A. Nelson, Secretary

**2-I CONSIDERATION AND APPROVAL OF AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND PATHFINDERS PUBLIC AFFAIRS FOR LEGISLATIVE SERVICES.**

Pathfinder
Public Affairs

## AGREEMENT FOR CONSULTING SERVICES

Pathfinder Public Affairs (Consultant) will provide legislative representation to Cameron County Regional Mobility Authority (Client). Such representation will include monitoring and intelligence gathering within the executive and legislative branches of Texas state government, specifically related to the Texas Legislature and including other state agency issues that may affect the Client. In addition, the Consultant will utilize its significant experience and knowledge in governmental affairs and securing funding for projects for economic development, especially for projects in the Rio Grande Valley, to strengthen the Client's partnership with the Texas Department of Transportation and other governmental agencies, especially in regard to collaboration and funding for the Client's transportation projects.

Any information furnished by the Client, whether orally or in writing, shall be treated as confidential.

This Agreement is effective as of January 1, 2025. This Agreement will terminate on December 31, 2025, unless terminated earlier in whole or in part by Consultant or the Client. Further, each party may terminate this agreement upon 30-days written notice to the other party.

## SCOPE OF SERVICES

In cooperation with the Client and at the direction of appropriate representatives of the Client, Consultant proposes to provide the following services:

- Confer, advise and participate in the passage, amendment or defeat of legislation, and secure appropriations, during any regular or Special Session of the Legislature, and advise on strategy that should be followed to accomplish the desired results;
- Review, analyze and advise on all proposed legislation that may affect the Client;
- Advise on and participate in the preparation of testimony for submission before legislative committees;
- Maintain a continuing relationship with the members and key officers and employees of the House and Senate;
- If requested, confer and advise in regard to the potential political and legislative impact of any proposed business decision of the management of the Client;

- Generally, use abilities, experience and best efforts to assist in the formulation and successful implementation of the legislative goals of the Client;

- Meet with the Client representatives as needed;

- Attend all relevant legislative hearings when the Client's interests are directly affected;

- Provide written reports to the Client on a monthly basis with the invoice;

- Assist the CCRMA in obtaining funding from the Texas Department of Transportation for any on-going CCRMA projects, specifically SPI 2nd Access, Outer Parkway, U.S. 77, East Loop as well as CBI or MPO funded projects; and

- "CCRMA projects" shall also include any other projects for which the Client requests consulting services from the Consultant or for projects for which the Consultant provides services to Cameron County, Texas (the "County") as described in this Agreement.

- Assist the CCRMA with any issues with any state agencies.

The product of all work performed under this Agreement, including reports, and other related materials shall be the property of the Client, and the Client shall have the sole right to use, sell, license, publish, or otherwise disseminate or transfer rights in such work product. In addition, original documents and reports developed under this Agreement shall belong to and become the property of the Client.

In consideration for such services, all of which are to be personally supervised by Rene A. Ramirez, the Client shall pay professional fees of $25,000.00 each month for the duration of this contract.

Consultant will not expend any funds on behalf of or in the name of the Client as political contributions or in support of any political party, any candidate for political office or any referendum issue. Neither Consultant nor any third party acting on behalf of Consultant will have or will hold itself out as having authority to bind the Client in any way and on any subject whatsoever.

Consultant represents and warrants that it is free to enter into and fully to perform this agreement and that no agreement or understanding with any other person, firm or corporation exists or will exist which would interfere with Consultant's obligations hereunder. In no instance shall Consultant take a position to Client's interests in the matters in which Consultant represents Client. Consultant shall do everything in its power to promote Client's interests in the matters Client has entrusted to Consultant, and Consultant will do nothing that will be adverse to that commitment.

THE CONSULTANT SHALL DEFEND, INDEMNIFY, AND HOLD THE CLIENT, AND THE CLIENT'S DIRECTORS, OFFICERS, EMPLOYEES, AND AGENTS HARMLESS FROM ANY AND ALL CLAIMS, INJURIES, DAMAGES, LOSSES, OR SUITS, INCLUDING BUT NOT LIMITED TO LEGAL COSTS AND ATTORNEY'S FEES, ARISING OUT OF OR IN CONNECTION WITH THE CONSULTANT'S PERFORMANCE OF THIS AGREEMENT, EXCEPT FOR INJURIES CAUSED BY

THE NEGLIGENCE OF THE CLIENT. IN THE EVENT OF LIABILITY FOR DAMAGES ARISING OUT OF BODILY INJURY TO PERSONS OR DAMAGES TO PROPERTY CAUSED BY OR RESULTING FROM THE CONCURRENT NEGLIGENCE OF THE CONSULTANT AND THE CLIENT, THEN THE CONSULTANT'S LIABILITY HEREUNDER SHALL BE ONLY TO THE EXTENT OF THE CONSULTANT'S NEGLIGENCE.

Consultant will comply with all required lobbying and disclosure filings and assist the Client in complying with such requirements in conjunction with the aforementioned representation.

This Agreement will be governed by the laws of the State of Texas, and venue for any cause of action arising out of or related to this Agreement shall be in Cameron County, Texas.

The Client may terminate this Agreement at any time for any reason by giving at least thirty (30) days written notice to the Consultant. If this Agreement is terminated by the Client as provided herein, the Consultant shall be paid for the work completed as of the date of termination.

As of the date of this Agreement, the Client and the County intend to enter into that certain Interlocal Agreement between the Client and the County whereby the County will utilize the Client's Consultant during the 89th Legislative session. In the event that the Consultant provides such services to the County, the Client shall not be responsible for any fees or expenses incurred in providing those services to the County. Moreover, such services shall not limit or conflict with the services provided by the Consultant to the Client.

Agreed: _____ Dated: _____
Rene Ramirez, President

Agreed: _____ Dated: _____
Frank Parker, Chairman CCRMA

**2-J CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NO. 1 WITH R.R.P. CONSULTING ENGINEERS, L.L.C. FOR THE SH 550 EMERGENCY REPAIRS.**

# WORK AUTHORIZATION NO. 1

This Work Authorization is made as of this _____ day of _____, 2024, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING CIVIL ENGINEERING SERVICES, dated as of October 31, 2024 (the "Agreement"), between the Cameron County Regional Mobility Authority ("Authority") and R.R.P. Consulting Engineers, L.L.C. ("GEC").

This Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement: ***Professional services for SH 550 Emergency Repairs.***

**Section A. - Scope of Services**

A.1. GEC shall perform the following Services:
*GEC shall perform the Services as listed in Exhibit B and as requested by the Authority.*

**Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule as shown on Exhibit C.

**Section C. – Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed $34,104.15, based on the attached estimate shown on Exhibit D. Compensation shall be in accordance with the Agreement.

C.2. The Authority shall pay the GEC under the following acceptable payment method – Lump Sum Payment Method.

C.3. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the services as stated in Exhibit A in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance.

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization. – None.

-SIGNATURES ON NEXT PAGE-

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

| | | | |
|---|---|---|---|
| Authority: | Cameron County Regional Mobility Authority | GEC: | R.R.P. Consulting Engineers, L.L.C. |
| By: | Frank Parker, Jr. | By: | Ahmed Abd-El-Meguid, PhD, PE |
| Signature: | | Signature: | |
| Title: | Chairman | Title: | Vice President |
| Date: | | Date: | |

**LIST OF EXHIBITS**

Exhibit A - Authority's Responsibilities
Exhibit B - Services to be Provided by GEC
Exhibit C - Work Schedule
Exhibit D - Cost Proposal

# EXHIBIT A
# Authority's Responsibilities

The following provides an outline of the services to be provided by the Authority in the development of the Project for this work authorization.

*GENERAL*

The Authority will provide to the GEC the following:

(1) Provide GEC with a Notice to Proceed.

(2) Payment for work performed by the GEC and accepted by Authority in accordance with this Agreement.

(3) Assistance to the GEC as necessary, to obtain the required data and information from other local, regional, State and Federal agencies that the GEC cannot easily obtain.

(4) Provide timely review and decisions in response to the GEC's request for information and/or required submittals and deliverables, in order for the GEC to maintain an agreed-upon work schedule referred to in Exhibit C.

# EXHIBIT B
## Services To Be Provided By The GEC

**County:** Cameron
**Highway:** SH 550

***GENERAL***

The work to be performed by the GEC under this contract consists of providing engineering services required for the SH 550 NB Side Slope Emergency Repair between the UPRR overpass and FM 1847 overpass.


The GEC shall direct and coordinate the various elements and activities associated with this work authorization, including day-to-day project management, management and coordination with sub-consultant and administration, progress reports and billing statements.

**FC 163 Miscellaneous Roadway**

A. The GEC shall perform initial investigations to determine the extent and limits of the damage associated with the required emergency maintenance activities.

B. The GEC shall meet with the Authority to review emergency repair plan of action along with preliminary estimates.

C. The GEC shall prepare plans, specifications, and estimates (PS&E) for the emergency maintenance activities. Including General Notes, Layouts, Estimated Quantities, Details, Stormwater Pollution Prevention Plan, EPIC sheets, and standard details.

D. The GEC shall prepare bidding documents.

**FC 164 General Coordination**

A. The GEC will coordinate with AUTHORITY staff, other consultants, local municipal agencies, and utility companies.

B. The GEC shall implement their Quality Assurance/Quality Control program prior to submitting project documents to the AUTHORITY.

C. The GEC shall a prepare, coordinate, execute and administer work authorizations with sub-consultants.

D. The GEC shall maintain all records and files related to the project throughout the duration of the services.

**FC 350 Construction Phase Services**

A. The GEC shall advise and assist the Authority and the construction manager on all matters of engineering related to interpretation of design details, construction techniques and procedures, specifications, standard construction details, and construction plans.

B. The GEC shall advise and assist the authority and the construction manager in evaluating and resolving construction problems and providing guidance in matters relating to construction quality assurance.

C. The GEC shall verify the tabulating of all construction contract bids received as tabulated by the construction manager, review bids relative to budgets and make recommendations to the Authority with respect to the award of construction contracts.

D. The GEC shall review construction contract shop drawings, erection drawings, working drawings, samples, material and product certifications, and catalog cuts and brochure submittals for general conformance with the design plans and specifications.

E. The GEC shall review mill and shop inspection and laboratory tests and field tests of construction materials performed by the testing engineer and the testing verification engineer.

F. The GEC shall review and recommend approval of progress payment requests, schedules, progress reports, and final payment requests, including certificates of completion, submitted by the testing engineer, geotechnical engineer, land surveyor, and all other consultants retained by the Authority to assist in designing and constructing the project.

G. The GEC shall verify and certify final inspection reports of the completed construction issued by the construction manager and issue recommendations and certifications of completion of construction.

H. The GEC shall compile and provide the Authority with Record Plans incorporating all construction revisions into the original “as bid” construction plans. Such Record Plans will be based on information furnished by the constructors to the construction manager showing the changes made during construction. The construction manager shall post the “as built” plan revision information it receives on the original tracings and/or digital plan designs.

I. The GEC shall provide a weekly field inspection for maintenance activities, estimated 30 calendar days.

# EXHIBIT C
# Work Schedule

The GEC will diligently pursue the completion of the Project as defined by the milestones and deliverable due dates.

The GEC will inform the Authority (in reasonable advance of the delay) should the GEC encounter delays that would prevent the performance of all work in accordance with the established schedule(s) of work.

Notice To Proceed (NTP) – **Upon Execution**

| | |
|---|---|
| Field Investigation (Structural and Geotechnical) | 1 day from NTP |
| Emergency Maintenance Plans and Bidding | 1 Week from NTP |
| Construction Phase Services | 4 Weeks from NTP |

Work Order Complete – **5 weeks from NTP**

**PROJECT:** SH 550 Side Slope Emergency Repair
**CLIENT:** CCRMA
**CONTRACT:** GEC 2024 Contract
**CSJ:**
**COUNTY:** Cameron
**RRP JOB NO.:** TX2434 WA1

**11/13/24**

**EXHIBIT D -- FEE ESTIMATE**

| ACTIVITY CODE | FUNCTION CODE | DESCRIPTION from Attachment B | FIRM | SERVICE | MAN-HOURS | | | | | | | | | | | ESTIMATED FEE | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Project Manager | Env Planner Senior | Env Planner IV | Engineer (Senior) | Engineer (Project) | Engineer (Design) | Engineer-in Training II | CADD Operator Senior | CADD Operator Junior | Admin/ Clerical | TOTAL HRS | | |
| | 163 | **MISCELLANEOUS ROADWAY** | | | | | | | | | | | | | | | |
| | | **Roadway** | | | | | | | | | | | | | | | |
| | | Initial Investigation | RRP | BASIC | 8 | | | | 8 | | 8 | | | | 24 | $4,247.92 | |
| | | Plan Set Modifications | RRP | BASIC | 4 | | | | | | 22 | 18 | | | 44 | $5,349.40 | |
| | | Bid Packaging | RRP | BASIC | 4 | | | | 8 | | | 4 | | 4 | 20 | $3,045.52 | |
| | | **Sub Total (163 - MISCELLANEOUS ROADWAY)** | | | **16** | **0** | **0** | **0** | **16** | **0** | **30** | **22** | **0** | **4** | **88** | | **$12,642.84** |
| | 164 | **GENERAL COORDINATION** | | | | | | | | | | | | | | | |
| | | a Project Manager (Proj Coord) (2 hrs/wk) | RRP | BASIC | 12 | | | | | | | | | | 12 | $3,282.00 | |
| | | c Sub Consultant Coordination | RRP | BASIC | 2 | | | | | | | | | | 2 | $547.00 | |
| | | e Project Secretary / Clerical (2 hrs/wk) | RRP | BASIC | | | | | | | | | | 12 | 12 | $887.04 | |
| | | **Sub Total (164 - GENERAL COORDINATION)** | | | **14** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **12** | **26** | | **$4,716.04** |
| | | **Sub Total (163 - 164)** | | | **30** | **0** | **0** | **0** | **16** | **0** | **30** | **22** | **0** | **16** | **114** | **$17,358.88** | **$17,358.88** |
| | 350 | **CONSTRUCTION PHASE SERVICES** | | | | | | | | | | | | | | | |
| 681040 | | **CONSTUCTION BIDDING** | RRP | SPECIAL | | | | | | | | | | | | | |
| 681040 | | RFI'S/Addendums | RRP | SPECIAL | 1 | | | | | | 2 | 2 | | | 5 | $699.78 | |
| 681040 | | Pre Bid Conference | RRP | SPECIAL | 3 | | | | | | 3 | | | | 6 | $1,134.66 | |
| 681040 | | Bid Opening | RRP | SPECIAL | | | | | | | 4 | | | | 4 | $418.88 | |
| 681040 | | Bid Tabulation/Recommendation of Award | RRP | SPECIAL | 2 | | | | | | 6 | 2 | | | 10 | $1,392.16 | |
| 681040 | | **DURING CONSTUCTION** | RRP | SPECIAL | | | | | | | | | | | | | |
| 681040 | | Weekly Inspection/Final Drawings and Pay Estimate | RRP | SPECIAL | | | | | | | 40 | | | 4 | 44 | $4,484.48 | |
| 681040 | | CMT | B2Z | SPECIAL | | | | | | | | | | | | $7,728.47 | |
| 681040 | | **Review of Shop Drawings** | RRP | SPECIAL | | | | | | | | | | | | | |
| 681040 | | Concrete Mix Design | RRP | SPECIAL | | | | | | | | 2 | | | 2 | $216.84 | |
| | | **Sub Total (350 - CONSTRUCTION PHASE SERVICES)** | | | **6** | **0** | **0** | **0** | **0** | **0** | **55** | **6** | **0** | **4** | **71** | | **$16,075.27** |
| | | **LABOR TOTALS** | | | | | | | | | | | | | | | **$33,434.15** |
| | | Total Hours | MULTIPLIER | | 36 | 0 | 0 | 0 | 16 | 0 | 85 | 28 | 0 | 20 | 185 | | |
| | | CONTRACT RATES: ($/MAN-HOUR) | 2.464 | | 273.50 | 152.77 | 135.52 | 246.40 | 152.77 | 135.03 | 104.72 | 108.42 | 68.99 | 73.92 | | | |
| | | BASE RATES: ($/MAN-HOUR ) | | | 111.00 | 62.00 | 55.00 | 100.00 | 62.00 | 54.80 | 42.50 | 44.00 | 28.00 | 30.00 | | | |
| | 160 | **NON LABOR** | | | | | | | | | | | | | | | |
| | | Travel - Mileage to Project Site (Initial Investigation, c Plan Development Meeting, Pre-Bid Meeting and CM | RRP | SPECIAL | Mileage per trip = | | 100 | Trips = | 10 | | | Milage Rate ($/mi.)= | | $ 0.670 | | $670.00 | |
| | | **Sub Total (F.C. 160)** | | | | | | | | | | | | | | | **$670.00** |
| | | **PROJECT TOTAL** | | | | | | | | | | | | | | | **$34,104.15** |

11/13/2024

# EXHIBIT 2
# Cost Proposal

B2Z Engineering, LLC.
185 Billy Mitchell Blvd
Ste. 6 & 7
Brownsville, Texas
(956)585-3773
Hector@B2ZEng.com

## CONSTRUCTION MATERIALS TESTING

SH 550 Side Slope

DATE: 11/13/2024

**CLIENT**
RRP Consulting Engineers LLC

**DESCRIPTION OF WORK**
Construction Material Testing Services

| LABOR | QTY | RATE/ HR | TOTAL |
|---|---|---|---|
| **PERSONNEL** | | | |
| Project Engineer (Oversight) | 3.00 | $ 251.35 | $ 754.05 |
| Sr. Engineering Tech. | 6.00 | $ 167.57 | $ 1,005.42 |
| Tech Time | 27.00 | $ 124.00 | $ 3,348.00 |
| Trip charge by miles | 264 | $ 0.67 | $ 176.88 |
| Admin/Clerical | 13.00 | $ 107.24 | $ 1,394.12 |
| | | | |
| | | ESTIMATED LABOR TOTAL | **$6,678.47** |

| MATERIALS | QTY | UNIT PRICE/ EA | TOTAL |
|---|---|---|---|
| **EARTHWORK** | | | |
| Determining Liquid Limits of Soils | 1.00 | $ 60.00 | $ 60.00 |
| Determining Plastic Limits of Soils | 1.00 | $ 60.00 | $ 60.00 |
| Calculating the Plasticity Index of Soils | 1.00 | $ 62.00 | $ 62.00 |
| Moisture/Density | 1.00 | $ 340.00 | $ 340.00 |
| | | | |
| | | | |
| **CONCRETE/MASONARY** | | | |
| Compressive Strength Tests | 16.00 | $ 33.00 | $ 528.00 |
| | | | |
| | | ESTIMATED MATERIALS TOTAL | **$1,050.00** |
| | | | |
| | | **ESTIMATED TOTAL** | **$7,728.47** |

AUTHORIZED SIGNATURE 

THANK YOU

*For questions concerning this estimate, please contact*

Hector Cantu
(281) 717-4016
Hector@B2ZEng.com
www.B2ZEng.com

The specific hourly rate within each classification listed under Labor/Staff Classification depends on the experience, training, and qualifications of the personnel. A two (2) hour minimum billing at the applicable rate will be assessed per visit to project site.

Services provided on Saturday, Sunday and all work in excess of "normal" work hours will be invoiced at an overtime rate of 1.5 times the applicable rate for the work performed. The cost of services is based upon the assumption that services will be provided during "normal" working hours. Normal working hours are between 7:00 a.m. and 6:00 p.m., Monday through Friday.

**2-K CONSIDERATION AND APPROVAL OF SUPPLEMENTAL WORK AUTHORIZATION NO. 1 TO WORK AUTHORIZATION NO. 10 WITH GDJ ENGINEERING LLC, FOR THE US 281 CONNECTOR PROJECT.**

# SUPPLEMENTAL WORK AUTHORIZATION NO. 1

WORK AUTHORIZATION NO. 10

This Supplemental Work Authorization No. 1 to Work Authorization No. 10 is made as of this _____day of _____, 2024, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of March 17, 2022 (the "Agreement"), between the Cameron County Regional Mobility Authority ("Authority") and GDJ Engineering, LLC ("GEC").

This Supplemental Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement: *US 281-Military Highway Water Supply Corporation utility relocation design.*

**Section A. - Scope of Services**

Section A is hereby amended to add the additional scope items.

*See Exhibit 1 – Scope of Services as requested by the Authority.*

**Section B. - Schedule**

Section B is hereby amended to include the work schedule needed for the Supplemental #1 services.

*See Exhibit 2 – Project Schedule as requested by the Authority.*

**Section C. - Compensation**

C.1. Paragraph C.1 is hereby amended to increase the overall maximum amount payable from $1,058,014.81 to $2,080,940.30, an increase of $1,022,925.49 based on the attached fee estimate as shown in **Exhibit 1.**

**Section D. – Authority's Responsibilities – No Change**

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization: NONE

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

| | | | |
|---|---|---|---|
| Authority: | Cameron County Regional Mobility Authority | GEC: | GDJ Engineering, LLC |
| By: | Frank Parker, Jr. | By: | Robert Macheska |
| Signature: | | Signature: | |
| Title: | Chairman | Title: | Exec. VP/COO |
| Date: | | Date: | |

**LIST OF EXHIBITS**

- Exhibit 1 – Scope & Fee
- Exhibit 2 – Supplemental #1 Schedule

# EXHIBIT 1
# SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

## PROJECT DESCRIPTION

The services designated herein as "Services provided by the ENGINEER" shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: CCRMA

CONTROL:

PROJECT/DESCRIPTION: Design Services for MHWSC Utility Adjustments

LENGTH: 5.9 miles (Approx)

HIGHWAY: US 281

LIMITS: FM 732 to FM 1421

**PROJECT CLASSIFICATION**

(Place an "X" in only one Project Classification)

___ Surface Treatment
___ Overlay
___ Rehabilitation Existing Road (Scarify & Reshape)
___ Convert Non-Freeway to Freeway
___ Widen Freeway
_ _ Widen Non-Freeway
___ New Location Toll Freeway
___ New Location Non-Freeway
___ Interchange (New or Reconstruct)
___ Bridge Widening or Rehabilitation
___ Bridge Replacement
___ Upgrade to Standards - Freeway
___ Upgrade to Standards - Non-Freeway
_X_ Miscellaneous Studies (Utility Adjustments)

ENGINEER shall mean GDJ Engineering.

LPA shall mean CCRMA.

# EXHIBIT 1
# SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

## FIELD SURVEYING AND PHOTOGRAMMETRY
(Function Code 150)

**TOPOGRAPHY AND CONSTRUCTION SURVEYS:**
All design survey and SUE data shall be provided by the LPA.

## MISCELLANEOUS ROADWAY
(Function Code 163)

**UTILITY ADJUSTMENT DESIGN:**
The ENGINEER will provide the design for the needed utility adjustments along the project limits. The following design services will be provided:

1. Roadway typical sections depicting utility line adjustment locations.
2. Water line adjustment plan and profile sheets and details (including all connection details)
3. Manhole adjustment details for existing sanitary sewer line to remain in place.
    a. Manhole design will provide for load rated lids with concrete aprons.

**TRAFFIC CONTROL PLAN, DETOURS AND SEQUENCE OF CONSTRUCTION:**
The ENGINEER will provide a Traffic Control Plan (TCP) for the needed construction repairs along the project limits. TCP's are required for all projects; therefore a detailed TCP shall be developed when traffic handling during construction involves complications for which a feasible solution is not covered by the Texas MUTCD or the current Barricade and Construction (BC) standards. The following items are required on all TCP Layouts:

1. The Sequence of Construction and method of handling traffic during each phase
2. Roadway layout
3. Center line with station numbering
4. The existing and proposed traffic control devices that will be used to handle traffic during each construction sequence. Include signals, regulatory signs, warning signs, construction warning signs, guide signs, route markers, construction pavement markings, channelizing devices, portable changeable message signs, flashing arrow boards, barricades, barriers, etc…
5. The proposed traffic control devices (stop signs, signals, flag person, etc.) at grade intersections during each construction sequence.
6. Where detours are provided, typical cross sections shall be shown.
7. Road construction work hours shall be developed after an investigation of the traffic volumes has been performed.

**COMPUTE AND TABULATE QUANTITIES:**
The ENGINEER will provide a summary of quantities sheet in the plans identifying all estimated project quantities.

**PROJECT ESTIMATE:**
The ENGINEER will provide a project estimate summarizing all estimated construction costs.

**SPECIFICATIONS AND GENERAL NOTES:**
The ENGINEER will provide all relevant project specification and general notes to the project construction activities.

# EXHIBIT 1
# SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

## PROJECT MANAGEMENT
(Function Code 164)

**MEETINGS, COORDINATION & SUPPORT FOR PROJECT MANAGEMENT:**
The ENGINEER shall assist and coordinate with LPA staff for meetings and coordination efforts with all relevant entities (i.e. County, Texas Department of Transportation, Military Highway Water Supply Corporation, etc…) and other affected parties. The Engineer shall coordinate with the LPA's staff on all Project related items.

## ADDITIONAL RESPONSIBILITIES

**MEETINGS:**
Meetings may be held with the FHWA, State Officials, local governments, property owners, utility owners, railroad companies, other consulting firms, etc., as needed or required by the LPA. The ENGINEER shall coordinate through the LPA for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

**SPECIFICATIONS, SPECIAL PROVISIONS, SPECIAL SPECIFICATIONS:**
Use the State's standard specifications or previously approved special provisions and/or special specifications. If a special provision and/or special specification is developed for this project, it shall be in the State's format and incorporate references to approved State test procedures.

**PROJECT MANAGER/ENGINEER COMMUNICATION:**
The ENGINEER shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the LPA**'s** Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the LPA.

Engineering documents produced for the department's engineering projects shall be signed, sealed and dated or CADD sealed in accordance with Administrative Order No. 5-89 and Administrative Circular No. 26-91.

**DESIGN RESPONSIBILITIES:**
The ENGINEER is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The ENGINEER's responsibility for all questions arising from design errors and/or omissions will be determined by the LPA and all decisions shall be final and binding. This would include, but not necessarily be limited to:

1. All design errors and/or omissions resulting in additional design work to correct the errors and/or omissions.
2. Preparation of design documents and detail drawings necessary for a field change due to design errors and/or omissions.
3. Revision of original tracings to the extent required for a field change due to design errors and/or omissions.

The ENGINEER shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of the work by the LPA will not relieve the ENGINEER of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

# EXHIBIT 1
# SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

**DOCUMENT AND INFORMATION EXCHANGE:**

Data, Plan Sheets, General Notes and/or Specifications provided to the LPA shall be furnished via file share links complete with a table of contents on what is transmitted. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

General Notes and specifications shall be provided in the latest Office 365 file formats (.docx, .xlsx, etc…). Plan sheets shall be provided in Microstation Open Roads Designer (ORD)/Power GEOPAK format. PDF copies of plan sheets shall also be provided.

Two copies of the documentation shall be provided to the LPA.

If required, the ENGINEER shall provide to the LPA, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the LPA's computer system.

CD Tape Required (YES or NO): YES

**PROPOSAL TIME:**

The time indicated in the proposal and the contract shall include time necessary for reviews, approval, etc.

**OFFICE LOCATION:**

The ENGINEER will perform all services to be provided under this agreement out of their office located at: 2805 Fountain Plaza Blvd., Suite B, Edinburg, Texas 78539

# "Exhibit 1"
# Fee Estimate

**CCRMA: Military Highway Water Supply Corporation Utility Design Fee Proposal**
**US 281 (Military Hwy) Utility Adjustments (Suppl #1 to WA #10)**

| | | *Waterline Design Fee Proposal - MHWSC US 281 Utility Adjustments (FM 732 to FM 1421 (Approx. 6 miles)) Supplemental #1 to WA #10* | MANHOURS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Principal/Senior Project Manager | Project Manager | Agency Coordination/ Utility Manager | Project/Design Engineer | EIT | Engineering Tech | Admin/Clerical | Total Hours | Total Line Item Cost |
| | | **TASK** | | | | | | | | | |
| | 1 | Review of Existing TxDOT Plans, Survey & SUE Data (Full Limits) | 10 | 28 | 88 | 88 | 100 | | | 314 | $ 37,059.60 |
| | 2 | Design & Develop Waterline Line Adjustment Plan & Profile Sheets | 84 | 260 | 342 | 380 | 700 | 1220 | | 2986 | $ 289,721.24 |
| | 3 | Design & Develop Manhole Adjustment Details for Exist San. Sewer Line | 60 | 144 | 218 | 180 | 422 | 680 | | 1704 | $ 165,045.12 |
| | 4 | Waterline & Manhole Adjustment Specialty Design Services | 36 | 188 | 266 | 364 | 679 | 1198 | | 2731 | $ 255,445.42 |
| | 5 | Traffic Control Plan for Utility Adjustments | 30 | 122 | 108 | 160 | 150 | 180 | | 750 | $ 83,836.28 |
| | 6 | Development of Specifications, Estimate & General Notes | 24 | 92 | 112 | 84 | 182 | 135 | 10 | 639 | $ 67,909.41 |
| | 7 | Plan Set Preparation & Submittal | 20 | 100 | 104 | 132 | 140 | 118 | 8 | 622 | $ 69,692.34 |
| | 8 | Meetings/Coordination/Management/Oversight | 58 | 76 | 88 | 96 | 108 | | 4 | 430 | $ 54,216.08 |
| | | **Subtotal** | **322** | **1010** | **1326** | **1484** | **2481** | **3531** | **22** | **10176** | **$ 1,022,925.49** |
| **Total Labor Hours** | | | **322** | **1010** | **1326** | **1484** | **2481** | **3531** | **22** | **10176** | |
| Contract Rate | | | $ 165.40 | $ 152.16 | $ 132.32 | $ 138.92 | $ 72.76 | $ 71.55 | $ 55.04 | | |
| **Total Labor Costs** | | | **$ 53,258.80** | **$ 153,681.60** | **$ 175,456.32** | **$ 206,157.28** | **$ 180,517.56** | **$ 252,643.05** | **$ 1,210.88** | | **$ 1,022,925.49** |

LINE ITEM EXPENSES

| | |
|---|---|
| N/A | $ - |
| **Total Expenses** | **$** - |
| **GDJ Engineering Total Cost** | **$ 1,022,925.49** |

**EXHIBIT 2**
**PROJECT SCHEDULE**
**Suppl 1 to WA 10**
**US 281 - MHWSC Utility Design**

| | 2024 | | 2025 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TASK AND DESCRIPTION** | **NOV** | **DEC** | **JAN** | **FEB** | **MAR** | **APR** | **MAY** | **JUN** | **JUL** | **AUG** | **SEP** |
| **Utility Adjustment Design Services** | | | | | | | | | | | |
| Notice To Proceed | | | | | | | | | | | |
| Review of TxDOT Survey & SUE Data | | | | | | | | | | | |
| Meetings & Coordination (TxDOT, MHWSC, Etc…) | | | | | | | | | | | |
| Waterline & Manhole Adjustment Design | | | | | | | | | | | |
| Preperation of Estimate, Specifications & General Notes | | | | | | | | | | | |
| Coord. w/TxDOT for Review & Approval (GDJ & CCRMA) | | | | | | | | | | | |
| Coordination w/TxDOT Ready For Letting (GDJ & CCRMA) | | | | | | | | | | | |

GDJ Engineering Work
CCRMA Work

**2-L CONSIDERATION AND APPROVAL OF RECOMMENDATION OF HIGHEST RANKED GENERAL ENGINEERING CONSULTANT PROPOSAL FOR OUTER PARKWAY PROJECT PRELIMINARY ENGINEERING AND ENVIRONMENTAL SOLICITATION.**

RMA
CAMERON COUNTY REGIONAL
MOBILITY AUTHORITY

IMPROVING MORE THAN JUST ROADS

# MEMORANDUM

To: Board of Directors

From: Pete Sepulveda, Jr.
Executive Director

Date: November 21, 2024

Subj: Item 2-L

Per our procurement policies and in compliance with Federal Standards listed in 23 CFR section 172 for the procurement, management and administration of engineering and design related services, the CCRMA administered a solicitation within its approved GEC's for the work to be performed.

The solicitation was strictly qualifications based with no cost estimates provided. Each response was evaluated in the following categories:

- Specific Project Team and Staffing Plan
- Consultant Comments and Approach
- Consultant Availability

Below is a summary of the resulting scores from the evaluation for Outer Parkway Preliminary Engineering and Environmental. Included is the CCRMA Evaluation Team Scores.

Ranking

The CCRMA has ranked the firms' responses in order from highest to lowest as follows:

1. 270- R.R.P. Consulting Engineers, LLC.
2. 262- HDR
3. 255- Civil Systems Engineering, Inc.
4. No score-GDJ Engineering, LLC (Firm did not submit a solicitation)
5. No score-Hanson Professional Services (Firm did not submit a solicitation)

In order to comply with the Interlocal Agreement CCRMA and Cameron County approved for the obligation of grant funding for the Outer Parkway Project, CCRMA Staff requested additional information from the highest ranked proposer to commence negotiations. Staff is requesting Board approval of the highest ranked proposer and approval of a work authorization with the highest ranked participant, R.R.P. Consulting Engineers, LLC.

**2-M CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NO. 2 WITH R.R.P. CONSULTING ENGINEERS, L.L.C. FOR THE OUTER PARKWAY PROJECT.**

# WORK AUTHORIZATION NO. 2

This Work Authorization is made as of this _____ day of _____, 2024, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING CIVIL ENGINEERING SERVICES, dated as of October 31, 2024 (the "Agreement"), between the Cameron County Regional Mobility Authority ("Authority") and R.R.P. Consulting Engineers, L.L.C. ("GEC").

This Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement: ***Professional services for Outer Parkway.***

**Section A. - Scope of Services**

A.1. GEC shall perform the following Services:
*GEC shall perform the Services as listed in Exhibit B and as requested by the Authority.*

**Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule as shown on Exhibit C.

**Section C. – Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed $3,335,086.12, based on the attached estimate shown on Exhibit D. Compensation shall be in accordance with the Agreement.

C.2. The Authority shall pay the GEC under the following acceptable payment method – Lump Sum Payment Method.

C.3. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the services as stated in Exhibit A in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance.

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization. – None.

-SIGNATURES ON NEXT PAGE-

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

| | | | |
|---|---|---|---|
| Authority: | Cameron County Regional Mobility Authority | GEC: | R.R.P. Consulting Engineers, L.L.C. |
| By: | Frank Parker, Jr. | By: | Ahmed Abd-El-Meguid, PhD, PE |
| Signature: | | Signature: | |
| Title: | Chairman | Title: | Vice President |
| Date: | | Date: | |

**LIST OF EXHIBITS**

Exhibit A - Authority's Responsibilities
Exhibit B - Services to be Provided by GEC
Exhibit C - Work Schedule
Exhibit D - Cost Proposal

# EXHIBIT A
# Authority's Responsibilities

The following provides an outline of the services to be provided by the Authority in the development of the Project for this work authorization.

*GENERAL*

The Authority will provide to the GEC the following:

(1) Provide GEC with a Notice to Proceed.

(2) Payment for work performed by the GEC and accepted by Authority in accordance with this Agreement.

(3) Assistance to the GEC as necessary, to obtain the required data and information from other local, regional, State and Federal agencies that the GEC cannot easily obtain.

(4) Provide timely review and decisions in response to the GEC's request for information and/or required submittals and deliverables, in order for the GEC to maintain an agreed-upon work schedule referred to in Exhibit C.

(5) The Authority shall collect and provide hard copy and digital copy of previously completed work, cost estimates, design files for exhibits, record drawings, public involvement, traffic data for roadway, property ownership digital mapping, survey ground control and public utility information as required to complete the task.

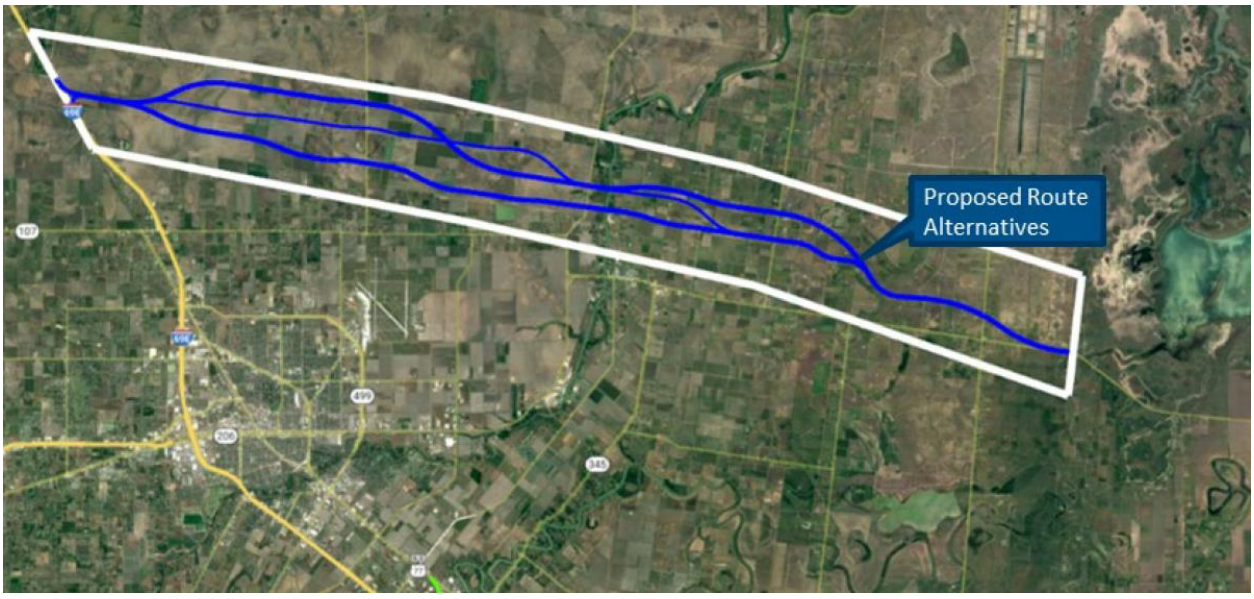
(6) Provide advertising and postage cost for all Public meetings and Hearings as applicable.

# EXHIBIT B
# Services to be Provided by the GEC/Engineer

**GENERAL DESCRIPTION**

The General Engineering Consultant (GEC) under this Work Authorization will provide engineering and environmental services associated with the development and advancement of the National Environmental Policy Act (NEPA) process for the proposed Outer Parkway Project, when used in conjunction with existing roadways will provide an additional east-west roadway to funnel traffic from coastal areas to I-69E, will provide an alternative route for police, fire and medical services; thus, facilitating efficient and timely emergency response. The tasks associated with this project will include preparation of an Environmental Document, and Design Schematic based on the alignment analysis within the study area within an 18–22-month period. The assumption for Project Management services is reflected for a 22-month period.

The GEC will perform these tasks according to Exhibit C, Work Schedule. The GEC will function as an extension of the AUTHORITY's resources by providing qualified technical and professional personnel. Services to be provided by the GEC will be performed under the direction of the AUTHORITY for each task described below for the project limits depicted in the image below.




**GENERAL REQUIREMENTS**

**1.1. Design Criteria.** The GEC 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: the *PS&E Preparation Manual*, *Roadway Design Manual*, *Hydraulic Design Manual*, the *Texas Manual on Uniform Traffic Control Devices* (TMUTCD), *Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges (latest Edition)*, and other State approved manuals. When design criteria are not identified in State manuals, the GEC shall notify the Authority and refer to the American Association of State Highway and Transportation Officials (AASHTO), *A Policy on Geometric Design of Highways and Street,* (latest Edition).

**1.2. Right-of-Entry and Coordination.** The GEC shall notify the Authority and secure permission to enter private property to perform any surveying, environmental, engineering, or geotechnical activities needed within the general area of the proposed project or proposed project right-of-way (ROW). A draft copy of the ROE letter shall be provided to the Authority for approval prior to any mailings; the ROE letter, forms and attachments shall follow current guidance and templates published by the Texas Department of Transportation. Property owner names shall be obtained from the Cameron County Appraisal District website. Research for individual property owner parcel, deed or easement information will not be conducted at the Cameron County Appraisal District office. Per the private property owner's written request, the GEC shall contact the property owner in advance of field investigations; property owners may elect to be present while the GEC, or the GEC's subconsultants, are present on the owner's property. In pursuance of the Authority's policy with the general public, the GEC shall not commit acts which would result in damages to private property, and the GEC shall make every effort to comply with the wishes and address the concerns of affected private property owners. Private property will not be accessed without a written/signed right of entry authorization from the landowner.

**1.3. Progress Reporting and Invoicing.** The GEC shall submit each invoice in a format acceptable to the Authority. The GEC shall submit a monthly written progress report to the Authority. The GEC's written progress report shall 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 percentage complete by task.

The GEC shall prepare a design time schedule using Primavera or a similar software. The schedule (submitted electronically only) shall indicate tasks, subtasks, critical dates, milestones, deliverables, and review requirements in a format that depicts the interdependence of the various items. The schedule shall allocate the necessary time for one or more stage reviews of the design schematic and the environmental documents by the Authority as well as state and federal regulatory/resource agencies.

**1.4. Traffic Control.** The GEC shall provide all planning, labor, and equipment to develop and to execute each Traffic Control Plan (TCP) needed by the GEC to perform services under each work authorization. The GEC shall comply with the requirements of the most recent edition of the TMUTCD. The GEC shall submit a copy of each TCP to the Authority for approval prior to commencing any work on any State roadway. The GEC shall provide all signs, flags, and safety equipment needed to execute the approved TCP. The GEC shall notify the Authority in writing at least seventy-two (72) hours in advance of executing each TCP requiring a lane closure and shall have received written concurrence from the Authority prior to beginning the lane closure. The GEC'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 Authority for inspection upon request. The GEC shall assign charges for any required traffic control to the applicable function code.

**1.5. Quality Assurance (QA) and Quality Control (QC).** The GEC shall conduct a peer review of all documents and deliverables at all levels. For each deliverable, the GEC shall document the 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 mark-ups are submitted. If requested by the Authority's Project Manager, the GEC shall submit the GEC's internal mark-up (e.g., red-lines, comments) developed as part of the GEC's quality control step. When internal mark-ups are requested by the Authority in advance, the Authority may reject the actual deliverable if the GEC fails to provide sufficient evidence of quality control. The GEC shall clearly label each document submitted for quality assurance as an internal mark-up document.

## Preliminary Engineering

**LEGACY FUNCTION CODE 110 – ROUTE AND DESIGN STUDIES (NEW FUNCTION CODE 102 FEASIBILITY STUDIES)**

### 110.01 Feasibility Study/Alternatives

The GEC will assess the exiting conditions of the reasonable alternatives (3) and provide an overall analysis of the existing conditions and features for each. Site visits and field investigations will be utilized to augment existing data and fill data void. This assessment will include:

A) Geometric Features – Assess public ROW widths and easements along the proposed route, horizontal and vertical alignments of I-69E, FM 507, FM 1420, FM 2925, FM 1847 and major cross streets, pavement cross sections and pavement types, intersections lane widths and configurations and stopping sight distances.
B) Traffic Control / Illumination Features – Assess existing signing features, safety lighting and continuous illumination requirements and warrants.
C) Accident Data – Accident frequencies and their critical locations.
D) Drainage Data – Drainage and irrigation structures.
E) Environmental Features and Constraints – including but not limited to the identification of wetlands, special aquatic sites, habitat features, parklands and managed lands, cultural resources, neighborhoods, and existing / proposed development.
F) The GEC will obtain necessary project-related Geographic Information System (GIS) based roadway map data and aerial photography for the project study area provided by the AUTHORITY (Some or all of this data may have already been provided to the GEC in connection with other ongoing projects).
G) Prepare summary document describing assessments of existing conditions with respect to the developed alternatives from previous work order.

**Deliverables:**

- Existing Conditions Summary Report with respect to feasibility analysis.

### 110.02 Functional Classification

The GEC shall provide Programmatic Services which include coordination, monitoring and providing input to the MPO and TxDOT through the Authority for a functional classification. The GEC will prepare applicable preliminary engineering documentation for the Authority for submission. This documentation may also be used for other planning activities including the UTP, TIP and other long-range planning including financial considerations and limitations.

### 110.03 Schematic

The GEC shall develop the schematic plan on planimetric base map to indicate general geometric features and location requirements of the project. All schematic design will be in conformance with American Association of State Highway and Transportation Officials (AASHTO) and the TxDOT Roadway Design Manual as shown in the references, except where variances are permitted in writing by the AUTHORITY. The schematic plan will be submitted for milestone reviews at 30%, 60%, 90% and 100% complete. Subsequent submittals of the schematic will be revised by the GEC to reflect the AUTHORITY's and TxDOT's review comments from the previous submittal.

The schematic plan will include the following:

A) General Information.
    1. Design speed (mph).
    2. Vicinity map, showing project location and north arrow.

3. North arrow and scale bar.
4. Traffic volume projections.
5. Texas county map, with city and district labeled.
6. Completed federal aid title block.
7. State plane coordinate reference, with datum and benchmark reference.
8. Preliminary "not a bidding document" stamp, with a Texas Licensed Professional Engineer (PE) nature, name, license number and date.
9. Copyright stamp.
10. Functional Classification
11. CSJ

B) Plan.
1. Calculated roadway baselines for the main lanes and all cross streets.
2. Beginning and ending project limits with stationing.
3. Alignment stationing.
4. Point of Intersection (PI) number and stations.
5. Curve data, including PI number, PI station, delta, tangent, length, radius, Point of Curvature (PC) and Point of Tangency (PT) stations.
6. Equations (if applicable), back station and forward station.
7. Super elevation type, transition length and beginning and ending station.
8. Pavement edges for all improvements (main lanes, frontage roads, ramps, and cross streets).
9. Lane and pavement width dimensions.
10. Geometrics of speed change lanes.
11. Typical section location symbols.
12. Existing and proposed ROW, including ROW dimensions, access denial (control of access), tract lines, railroad ROW limits, city limits, section line and corners, subdivisions, and easements.
13. Direction of traffic flow on all roadways, lane lines and/or arrows indicating the number of lanes will be shown.
14. Median lines (raised, painted and transitions), median widths and openings.
15. Roadway names and highway designations, railroad names, cross street names and locations, designated signalized intersections, acceleration, and deceleration lanes, climbing lanes and transitions.
16. Bridge and structure locations. (No bent design at this time)
17. Retaining wall locations, including beginning, and ending station.
18. Proposed drainage requirements, such as the location of structures, inlets, manholes, trunk lines, channels, ditches, arroyos, retention/detention ponds.
19. Existing drainage features, such as structures, channels, ditches, arroyos, trunk lines, retention/detention ponds.

C) Profile.
1. Calculated profile grade for the main lanes and cross streets. Vertical curve data, including VPI number and station, length, "K" and "e" values and type or curve (crest or sag) will be shown. Profile grade information will be shown on all plan sheets.
2. Longitudinal slopes.
3. Equations.
4. Beginning and ending of project.
5. Super elevation, including normal crown limits, transition length, full superelevation length and rates.
6. Existing ground line profiles and proposed roadway profiles will be shown on the plans.
7. Cross street name, station, and elevation.
8. Existing and proposed bridges.

9. Existing and proposed drainage features (structure, channels, ditches, arroyos, ponding areas), labeling station and invert elevation.

**Deliverables:**

- The GEC will submit the schematic in .pdf format with supporting documentation as stated on the Schematic checklist. Supporting documentation to include the DSR, 3D Corridor Model, Traffic, Hydrology & Hydraulics report done under previous work order and Construction Estimate.

**110.03.01 – Interchange Layout/Design**

The CONSULTANT will be responsible for the design of the I-69E mainlanes and ramps, auxiliary lanes (if applicable) and direct connectors. The conceptual structural details of the direct connectors interchange will be provided by the CONSULTANT and will be included with the Schematic Layouts. The interchange design will be consistent with the schematic design and will include a plan and profile of the thoroughfares, intersection layout, drainage structures, sidewalks, geometrics, turnaround details, and transitions to existing roadway.

**110.10.01 – Development of Interchange Access Justification Report (IAJR)**

The CONSULTANT will prepare an IAJR to document proposed changes to the access to I-69E. The IAJR will provide information to support a request for the approval of new and revised points of access on the completed section of the Interstate Highway System. The IAJR will be prepared in compliance with FHWA's 8 point policy for new or revised access to the Interstate Highway system and will include:

- Preparing a report covering FHWA's 8 policy points. **Note: The Level of Service (LOS) Analysis that is required for the report will be by supplemental once the Interchange configuration is decided for proposed ramp locations.**
- Incorporating figures and tables documenting the results of the analysis
- Preparing an Appendix
- Revising the report to incorporate comments from the State and FHWA for up to three submittals.

**Deliverables:**

- 1st Draft IAJR for the State review submittal along with comment-response matrix (1 electronic copy per submittal)
- Revised Draft IAJR for the Sate back check with comment-response matrix
- 2nd Draft IAJR for State review submittal along with comment-response matrix (1 electronic copy per submittal)
- Revised 2nd Draft IAJR for the State back check with comment-response matrix
- 3rd Draft IAJR for FHWA review submittal along with comment-response matrix (1 electronic copy per submittal)
- Revised IAJR for FHWA back check with comment-response matrix
- Final IAJR (1 electronic copy per submittal)

**110.04 Corridor and Route Alternative Analysis**

The Corridor and Route Alternative Analysis will utilize the Authority's alternative analysis that was previously done under past work authorizations to the maximum extent possible. The following scope will consist of an update to the previous analysis. These Route and Design Studies services shall apply to all three (3) reasonable alternative alignments. Alternative **Design Criteria** shall develop the roadway design criteria based on the controlling factors specified by the Authority (*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 *PS&E Preparation Manual*, *Roadway Design Manual*, *Bridge Design Manual*, *Hydraulic Design Manual*, *AASHTO Policy on Geometric Design of Highways* and other deemed necessary

State approved manuals. In addition, the GEC shall prepare the Design Summary Report (DSR) and submit it electronically. The GEC shall obtain written concurrence from the Authority prior to proceeding with a design if any questions arise during the design process regarding the applicability of the State's design criteria.

A) Preliminary Horizontal Conceptual Design - The GEC will prepare conceptual horizontal design for three conceptual alignments. A typical intersection design detail will be prepared for the intersections at U.S. 77, FM 507, FM 1420, FM 2925, FM 1847, and FM 106/General Brant Road. Coordination with Environmental team will be required during alignment refinements as drawings will be developed for use of determining environmental impacts. Should additional horizontal alignments be prepared, a supplemental work authorization will be required.
B) Preliminary ROW Requirements - Preliminary ROW requirements for three conceptual designs shall be determined using roadway functional classification, consideration of environmental impacts, design criteria, drainage requirements and typical sections. The proposed roadway improvements, with appropriate design criteria, shall be noted on the typical sections. Preliminary ROW requirements and opinion of costs will be tabulated. A preliminary ROW technical memorandum that documents and describes the ROW requirements and associated opinion of ROW acquisition costs shall be prepared. ROW acquisition costs will be based on current appraisal values obtained from the Cameron County Appraisal District for the specific parcels to be acquired.
C) Preliminary Utility Location Investigations - The GEC will investigate the utility impacts for each conceptual design alternative for potential conflicts.
D) Preliminary Hydraulic Evaluations (For Additional Hydrology and Hydraulic Analysis see Section 110.06) - For each reasonable alternative alignment, the GEC will perform a preliminary drainage evaluation. The GEC will coordinate with the AUTHORITY, GEC OVERSIGHT TEAM and TxDOT as needed to provide continuity and consistency of the preliminary analysis of the proposed drainage features and systems. The GEC will adhere to the criteria set forth by the AUTHORITY in the hydrology and hydraulic design guidelines technical memorandum.

   The GEC will include significant preliminary hydrologic and hydraulic considerations in the development and assessment of alternative alignments for the project. Significant preliminary considerations include preliminary assessment of design elevations for various modes to ensure desired performance for hurricane evacuation and a preliminary assessment of the impacts to FEMA-regulated floodplains and.

   The GEC will obtain Local and Regional Drainage analysis guidelines through coordination with local and regional Drainage authorities.

Tasks to be performed by the GEC to accomplish a preliminary hydrology and hydraulic assessment include, field investigations, data gathering, agency coordination, and determination of issues/concerns and how drainage would be handled. No calculations will be conducted until a recommended preferred alignment is identified and the GEC has been notified by the AUTHORITY to perform the preliminary calculations associated with the assessment. Tasks include the following:

1) Field Investigations and Data Gathering.
   a. Obtain relevant existing hydrologic and hydraulic models if available.
   b. Obtain and evaluate available studies and reports relevant to hydrologic and hydraulic design.
   c. Investigate applicable design criteria, regulations, and guidance.
2) For each alternative, identify:
   a. Issues/Concerns.
   b. Drainage handling.
3) Agency Coordination
   a. FEMA coordination – The GEC shall identify and document issues that will require

coordination with FEMA, Cameron County, City of Harlingen, City of Rio Hondo, including a discussion on the cities' participation in the National Flood Insurance Program, location of existing and proposed floodplain encroachments, impacts of improvements on floodplains and need for future map revisions (CLOMRs/LOMRs). The GEC shall develop a preliminary technical summary and provide it to the AUTHORITY in support of the discussion regarding the effects the project has on FEMA designated SFHAs.

b. Drainage and Water District coordination – The GEC shall coordinate with Cameron County, City of Harlingen, City of Rio Hondo, Cameron County Irrigation District No. 1, Cameron County Drainage District No. 1, and the Laguna Madre Water District for issues including outfall of storm water runoff into the neighboring drainage channels, as necessary. This coordination may include consideration of industrial stormwater or wastewater discharges in these districts.
c. Corps of Engineers coordination – If the AUTHORITY is issued a judgement by the USACE in which the USACE finds that waterways associated with the project do fall under the USACEs jurisdiction then the AUTHORITY will direct the GEC to further coordinate with the USACE. For this subtask, avoidance, and mitigation relative to wetlands, Waters of the U.S. and current navigation features will be considered during the preliminary hydrologic and hydraulic assessment to limit future permitting issues.
d. Other Agencies – Other agencies identified during the data gathering phase of this task will be contacted as necessary in relation to the preliminary drainage assessment.

E) Preliminary Construction Cost Estimates - The GEC will prepare a preliminary opinion of probable construction cost for the preferred alternative that includes preliminary ROW costs, landscape costs and utility adjustments. Unit costs will be based statewide and/or Pharr District average unit prices, from the TxDOT website. Preliminary cost estimates will include an approximate 20% contingency and shall be updated for every stage of the milestone completion in a higher degree of detail, as more information is obtained and developed.

Because the GEC has no control over the cost of labor, materials or equipment furnished by others or over the resources provided by others to meet project schedules, the GEC'S opinion of probable costs and of project schedules shall be made on the basis of experience and qualifications as a professional engineer. The GEC does not guarantee that proposals, bids, or actual project costs will not vary from the GEC's cost estimates or that actual schedules will not vary from the GEC's projected schedules.

**Deliverables:**

- Alternative Analysis Report
    - Alternative Descriptions/Conceptual Design
    - Preliminary ROW Requirements
    - Preliminary Utility Matrix
    - Preliminary Construction Estimate
    - Preliminary Hydraulic Structure Sizing
    - Roadway and drainage design parameters
    - Engineering and environmental constraints
    - Project development schedule
    - Other issues as identified by the Authority.
    - Identify any Design Exceptions and Waivers

**110.05 Development of Typical Sections**

The GEC will prepare typical sections of the roadway and bridge structures at a proportional scale for incorporation into the layout document. Typical section will include the following design elements:

A. Centerline alignment
B. Profile grade line
C. ROW width (existing and proposed)
D. Limits of bridge
E. Concrete traffic barrier railing
F. Illumination
G. Median width (separation distance)
H. Typical section description, including stationing and location (median openings)
I. Shoulder width
J. Lane widths
K. Clear zones
L. Pavement cross slope
M. Traffic directional arrows
N. Turn lanes
O. Superelevation, limits, stationing, and rate
P. Structure clearances, including horizontal and vertical clearances

**110.06 Geotechnical Studies**

**Geotechnical Borings**. The Engineer shall determine the location of proposed soil borings for pavement design and bridge design. The State/Authority will review and provide recommendations for a boring layout submitted by the Engineer showing the general location and depths of the proposed borings. Once the Engineer receives the State/Authority's recommendations they shall perform soil borings (field work), soil testing and prepare the soil borings in accordance with Pharr District's procedures. The Engineer shall prepare a geotechnical report to include soil boring locations, soil boring logs, signed, sealed, and dated for insertion into plans, lab test results, and pertinent analysis with regard to pavement design and noise walls.

**Geotechnical Investigations**
The Engineer shall determine the location of proposed soil borings for bridge design and pavement design in accordance with the latest edition of the State's Geotechnical Manual.

1. The Engineer shall undertake the following drilling program:

   Roadway Pavement Borings:
   20 Holes @ 15' depth
   Bridge Borings (at Arroyo Colorado):
   2 Holes @ 150' depth
   Bridge (and Misc Walls/Slopes) Borings (at I 69):
   6 Holes @ 100' depth
   Bridge Borings (at Various Waterway Crossings):
   6 Holes @ 70' depth

   Total 34 Borings
   Total Linear Footage – 1620 linear feet of borings

2. All geotechnical work should be performed in accordance with the latest version of the State's Geotechnical Manual. All testing shall be performed in accordance with the latest version of the State's Manual of Test Procedures. ASTM International test procedures can be used only in the absence of the State's procedures. All soil classification should be done in accordance with the Unified Soil Classification System.
3. The Engineer shall provide a signed, sealed and dated geotechnical report which contains, but is not limited to, soil boring locations, boring logs, laboratory test results, generalized subsurface conditions, ground water conditions, analyses, skin friction and design capacity curves including skin friction and point bearing (if required). The skin friction and design capacity curves must be present for piling and drilled shaft foundation (if required).
4. 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 a State's District standards.

5. Pavement Design: The Engineer shall provide a signed and sealed pavement design report to reflect both Flexible & Rigid Pavement Structure options.
6. The Engineer shall incorporate soil boring data sheets prepared, signed, sealed, and dated by the Engineer.

**110.07 Hydrologic and Hydraulic Studies**

For the Recommended Preferred Alternative, the GEC will perform schematic level drainage evaluation and design for the schematic plan. The GEC will coordinate with the AUTHORITY, and TxDOT as needed to provide continuity and consistency of proposed drainage features and systems. The GEC will follow design methodologies and criteria contained in the TxDOT Hydraulic Design Manual to identify potential culvert crossing locations, outfalls, and conceptual detention/retention locations.

Drainage analysis and maps will be prepared by the GEC with consideration of existing conditions and proposed improvements when a final configuration has been determined. Hydrological discharge data will be established as needed for design. These services may require the use of hydrologic or hydraulics computer programs, such as: HY-8, HEC-RAS, HEC-1, HEC-HMS, GEOPAK Drainage, FHWA Hydraulic Engineering Circulars, other TxDOT hydraulic publications and any other pertinent software as approved by the Authority.

Tasks to be performed by the GEC to accomplish hydrology and hydraulic studies and drainage design include the following:

A) Field Investigations and Data Gathering.
   1. Conduct site visit to project to inspect watersheds and conditions of existing facilities.
   2. Coordinate with the project geotechnical GEC regarding information on groundwater levels and soil conditions at locations throughout the site.
   3. Obtain relevant existing hydrologic and hydraulic models.
   4. Obtain and evaluate available studies and reports relevant to hydrologic and hydraulic design.
   5. Investigate applicable design criteria, regulations, and guidance.
   6. Compile and review available pertinent environmental data associated with drainage, hydrologic and hydraulics.

B) Hydrologic and Hydraulic Studies.
   1. Design Criteria – The GEC will utilize the design criteria as provided in the TxDOT Hydraulic Design Manual to size drainage structures within each roadway section. The design will conform to all other applicable regulations, e.g. FEMA, TCEQ, USIBWC.
   2. Perform hydraulic analysis and design of roadway cross drainage structures and roadway ditch capacity analysis, as required to develop anticipated project ROW requirements to accommodate drainage features. The design frequency will be based on roadway classification and conveyance capacity will be adequate to accommodate the appropriate design storm and to perform within an acceptable range for the check flood.
   3. Preliminary Design of ponds and other structures as needed for flood control. Only preliminary sizing of and the general location of flood mitigation and major conveyance structures will be provided as well as any additional ROW needed to accommodate these drainage facilities. Final design of hydraulic structure shall be performed in PS&E not included in this proposal.
   4. Included in this proposal is an initial coordination meeting (1) with USIBWC to present proposed project and schematic design. This proposal does not include USIBWC permitting nor approval of proposed design. No rise certification and USIBWC permitting shall be negotiated after initial USIBWC coordination meeting to present the proposed schematic design.

C) Design Documentation
   1. Prepare a report which provides sufficient documentation to support the proposed design configuration, and summarizes the key assumptions and methodology used. The report will be signed and sealed by a (PE) employed by the GEC and include such key information as:
      - Project Background (location, existing conditions, significant design considerations)
      - Design Criteria (design frequency, check flood, applicable regulations)
      - Hydrologic Study (assumptions, methodology, drainage area information, summary of results)
      - Hydraulic Study (assumptions, methodology, summary of results)
      - Attachments (electronic data/models, detailed input/output files)
   2. Prepare a preliminary engineer's construction cost estimate for drainage structures and conveyance systems.

D) Agency Coordination.
   1. Federal Emergency Management Agency (FEMA) coordination – The GEC will identify and document issues that will require coordination with FEMA, and Cameron County, location of existing and proposed floodplain encroachments, impacts of improvements on floodplains and need for future map revisions (Conditional Letter of Map Revision/Letter of Map Revision (CLOMRs/LOMRs)). The GEC will develop technical data and provide it to FEMA and Cameron County via the AUTHORITY in support of this discussion, as necessary.
   2. Drainage and Water District coordination – The GEC will coordinate with Cameron County and appropriate irrigation/drainage districts for issues including outfall of storm water runoff into the neighboring drainage channels, as necessary
   3. It is assumed that no more than 2 total meetings with Authorities having jurisdiction will be required (FEMA FPA, Drainage District, Irrigation and Water Control Districts, etc.)

**110.07.01 – Preliminary Bridge Layout Preparation (Typical Bent Sizing and Numbers)**

All bridge structures shall be designed for HL-93 loading.

Bridge Layout – The CONSULTANT will prepare a Preliminary Bridge Layout for hydraulic purposes only in accordance with the latest edition of TxDOT's Bridge Design Manual, Bridge Development Manual, Bridge Detailing Manual and TxDOT's Pharr District Bridge Checklist.

A) The bridge Layouts in the Plan View shall contain the following information:
   1. Horizontal curve information or bearing centerline.
   2. Bearing of centerline or reference line.
   3. Skew angle(s).
   4. Slope of header banks and approach fills.
   5. Control stations at beginning and ending of with bridge (with deck elevation).
   6. Approach pavement and crown width.
   7. Bridge roadway width and curbs, face of rail, shoulders or sidewalks.
   8. Approach slab and curb returns.
   9. Limits and type of riprap.
   10. Proposed features under structure.
   11. Location of profile grade line.
   12. North Arrow.
   13. Typical bridge roadway section including preliminary proposed beam types.
   14. Cross slope and super elevation data.
   15. Minimum horizontal and vertical clearance.
   16. Location of soil core holes (station and offset).
   17. Bent stations and bearings.

18. Retaining wall locations.
19. Traffic flow directional arrows.
20. Railing types shown.

B) Bridge Layouts in Elevation View should contain the following:
1. Type of foundation with preliminary sizing of footing cap.
2. Finished grade elevations at beginning and end of bridge.
3. Overall length of structure.
4. Length, type of spans and units.
5. Type of railing.
6. Minimum calculated vertical clearance(s).
7. Existing and proposed ground lines clearly marked.
8. Grid elevations and stations.
9. Bent numbers encircled.
10. Profile grade data.
11. Type of riprap.
12. Soil Core Hole information
13. Column "H" heights.
14. Number, size, and length of columns/piers/piles.

C) Additional layout requirements for waterway structures and bridge classification culverts:
1. Design and 100-year peak discharges.
2. Design and 100 year high water (HW). Any recorded HW data available?
3. Natural and through bridge velocities for design and 100 year floods.
4. Calculated backwater for design and 100 year floods.
5. Direction of flow for waterway crossings.
6. Contours for water crossings.

**Deliverables:**

- Preliminary Bridge Layouts (60%, 90%, and 100%)

**110.08 Travel Demand Modeling and Traffic Forecasting**

The GEC will develop a traffic forecasting model for the FM 106 extension utilizing the regional travel demand models based on the RTP 2045, and support the CCRMA with the traffic data and forecasting needs for the project by performing the following services:

**Subtask 110.08.01 – Travel Demand Modeling**

The GEC will develop a corridor-specific version of the Rio Grande Valley Municipal Planning RGV MPO's travel demand model to facilitate technical analysis of the FM 106 extension for the environmental and highway design analysis process. The updated model will produce comparative transportation measures-of-effectiveness of demand, travel time and delay for the FM 106 extension. The GEC will submit additional scope if the performance measures are expanded to include those that cannot be readily computed from demand model forecasts included in this scope.

The GEC will use existing 2014 and 2045 model sets from the Rio Grande Valley MPO. Additional data and assumptions for forecasting will be developed in coordination with the CCRMA. The proposed FM 106 extension is assumed to operate as a toll-free facility.

**Review/evaluate RTP 2045 Future Models –** The GEC will review the future models based on the RTP 2045. The review will be limited to the key roadways in the network that will have a direct impact on the

traffic along the study corridor. The GEC will identify any planned roadway projects not already coded in the travel demand model 2045 network that will impact the Project Corridor.

**Code and Run 2045 No-Build Scenario –** The GEC will update the Corridor Model highway network based on the RTP 2045 review to represent a 2045 no-build scenario. The GEC will extract corridor-level and system-level demand, travel time and delay performance measures for environmental process and public involvement reporting.

**Code and One Run 2045 Build Scenario –** The GEC will revise the Corridor Model highway network to include the proposed Project Corridor configuration and perform adjustments to model attributes to account for corridor improvements, to produce reasonable forecasts of traffic for this project.

**Deliverables:**

- A Microsoft Excel summary with demand, travel time and delay-based performance measures for 2014 existing, 2045 no-build and a build alternative.

**Subtask 110.08.02: Existing Conditions**

The traffic data to be incorporated in this study includes previously collected counts along several screen lines to capture the share of traffic along major corridors. This provides relative usage as well as the influence of the study corridor on other roadways included as part of the screen lines. The traffic counts provide the temporal distribution of traffic during the day. The vehicle classification counts determine the vehicle composition by size of vehicle (autos, medium and heavy trucks) at different times during the day.

The historical traffic databases will be an important input to the traffic projections development of FM 106.

**Subtask 110.08.03: Project Traffic Forecast Updates using 2045 RGV MPO Model**

The GEC will utilize the Corridor Model files developed under Subtask 110.06.01 to develop the Project Corridor's traffic forecasts.

The GEC will develop an updated project-level traffic forecast, and coordinate with TxDOT Pharr District and the TxDOT Transportation Planning and Programming (TPP) division for approval. This includes obtaining all corridor packets for nearby roadways in the FM 106 extension area (if available) and reviewing data such as recommended growth rate, K- and D- factors, and truck percentages. The GEC will gather STARS II/TCDS historical and all existing traffic data for nearby roadways and run a 20-year regression analysis to get historical traffic growth trends. The GEC will assess growth rates from the 20-year regression analysis, socioeconomic data inputs for the Corridor Model, and Corridor Model VMT outputs to determine an annual growth rate. The GEC will develop the count year traffic volumes and use the identified annual growth rate to grow into the base year/opening year, 20-year and 30-year forecast volumes for nearby roadways in the no-build scenario. The GEC will compare the model volumes between the no-build and build scenarios to assess the traffic pattern changes, then develop the base year/opening year, 20-year and 30-year forecast volumes for Project Corridor in the build scenario. Furthermore, the GEC will ensure that all methods used will fully comply with TPP's Traffic Forecasting Guidelines and will facilitate TPP review and approval of the traffic forecasts.

**Develop Traffic Forecast Methodology Memo –** The GEC will review and update a draft traffic forecast methodology memo for TPP review and approval in accordance with the TPP's Traffic Forecasting Standard Operating Procedures manual.

**Develop Project Traffic Forecasts for use in Air-Noise Analysis and Pavement Design -** Using historical traffic trend data near the Project Corridor, and forecasts developed using the calibrated Corridor Model,

the GEC will develop project-level traffic forecasts for use in air-quality and noise studies, including the associated K- and D- factors and truck percentages. The GEC will also generate tabulations and figures in PDF format depicting annual growth rates from historical trends of nearby roadways, annual growth rate identification for use in the forecast, Corridor Model outputs, and the resulting base and future years' daily traffic volume forecasts. The GEC will identify the highest volume location, calculate ESALs, and prepare TAHD tables.

**Facilitate TxDOT/TPP Review of Project Forecasts** – The GEC will submit the build daily traffic forecasts for the proposed project configuration to TPP for review, comment, and approval for use in corridor environmental studies. The GEC will also address comments and revise forecasts based on TPP comments for up to 1 round of comments. It is assumed that it will take a maximum of sixteen (16) weeks for TPP to complete its review and GEC will provide updated traffic forecasts for each round within four weeks after receiving comments from TPP. An additional round of review and update will require additional scope, and any delays from TPP beyond six (6) months will also require additional fee and scope.

**Deliverables:**

- A package of PDF tabulations and figures illustrating TAHD tables (including base year/opening year and 20-year and 30-year forecast volumes), project location, STARS II count locations, highest volume location, corridor analysis worksheet, traffic volume regression worksheet, vehicle classification report from a selected MVC station, SPR report from a selected PERM station, and Corridor Model outputs for TPP review.

**Subtask 110.08.04: Project Management, QC, and Coordination Meetings Attendance**

This task involves day-to-day coordination activities not directly associated with technical tasks, including project management, QC, attendance at CCRMA and TxDOT coordination/status meetings, communication, facilitation, record keeping, coordination, responses to stakeholder questions. Responses to stakeholder questions involve generating small narratives, charts, tables, or diagrams based on available data and analysis results with minimal additional work to effectively communicate a response that is understandable to the stakeholder(s). Responses that involve additional data, analysis, model runs, or documentation will be addressed through a supplemental agreement, or through a separate work authorization.

**Project Management, Meetings & Coordination**

- The GEC will conduct one kickoff/project quality meeting and a final meeting to present and discuss the summary analysis and results.
- The GEC will respond to small information requests by the environmental study team or public involvement team pertaining to the environmental study or stakeholder questions.
- The GEC will coordinate any additional special requests for analysis with associated schedules and fee estimates.
- The GEC will provide monthly progress reports along with the invoices.

**Deliverables:**

- Develop presentation and facilitate one project kickoff meeting.
- Monthly progress reports and invoices.

**110.09 Project Cost Estimates**

The GEC shall develop a preliminary cost estimate using the Average Low Bid Unit Price. The GEC 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 and inspection (CEI). The estimation of escalation costs throughout the life of the project

would be evaluated when appropriate. Project Estimates will be submitted with milestone deliverables and updated estimates will be submitted every quarter of the year. Totaling 14 submissions.

**110.10 Engineering Summary Report**

The GEC will prepare a draft PER summarizing the findings of the various engineering studies and investigations. The draft PER will be submitted at 30%, 60% and 90% complete milestone reviews and will contain sufficient detail to reflect the applicable completion milestone submittal. The GEC will prepare a final PER for submittal with the 100% complete milestone review. The PER will be signed and sealed by a PE employed by the GEC and include key information such as the following:

1) Summary of data collected and how it will, may be, or has been applied.
2) Photographic record of project area.
3) Summary of existing condition analysis.
4) Alternatives assessment documentation report.
5) Design Summary Report (DSR).
6) Plan and profile exhibits
7) Preliminary ROW technical memorandum.
8) Summary of preliminary utility conflicts.
9) Preliminary construction cost estimates.

**110.11 Quality Assurance / Quality Control**

The GEC will provide a Quality Assurance and Quality Control method that is constituted as separate functions, reporting to different levels within the project organization, and independent of production. The QA/QC program seeks to identify and solve quality problems before they impact schedule and budget. The GEC will provide Quality Assurance oversight and verification of the QC function, assuring the Authority that schedule and production issues are not overriding the commitment to furnishing a quality product. The Quality Control Manager reports directly to the Project Manager on all quality issues, while Quality Assurance makes regular reports to Project Management.

All comment resolution (C-R) issues will be documented (reviews will be performed utilizing Bluebeam software which is extremely interactive with all participants on the project) at each level of review / submittal. C-R will start at the level of review that the comment was generated. If the comment cannot be resolved, it will be escalated to the Technical Review Team for their resolution / final determination. If an external C-R cannot be resolved, it would be escalated to the PM and/or a meeting with the Authority to determine the best course of action.

**110.12 LGPP Checklist for Preliminary Engineering**

The GEC will be responsible for submitting the Local Government Project Procedures Development Checklist for Advance Project Delivery at each set milestone.

**FUNCTION CODE 150 – Field Surveying and Photogrammetry**

**150.01. AERIAL PHOTOGRAMMETRY**

**1) LiDAR Acquisition**

**Regal 780I Lidar System with a Phase 1 150 Mega Pixel camera at 22 ppm scan**

**A. Data Acquisition**

Data collection will not be conducted while there is no inclement weather conditions (high winds, rain, fog, low cloud cover) that would significantly diminish the quality of the data.

- The Light Detection and Ranging (LiDAR) scan will be captured with Regal 780I Lidar System with a scan and pulse rate to generate an aggregate of ***22 points / m2*** on the subject area. Our approach coupled with the Fullwave form LiDAR returns (unlimited returns per pulse) with 16-bit intensity allows for point density range capturing key LiDAR returns as the light penetrates through the forest canopy.
- Color imagery (3" pixel) of the subject area will be captured simultaneously with the LiDAR scan. Acquiring imagery and LiDAR simultaneously allows for more accurate data using the same IMU, GPS and control position on both sensors to ensure the best fit possible. The use of a co-registered / integrated LiDAR & Image system that captures equidistant swaths of data from the same positional system and solution simultaneously improves workflow efficiency and more accurate data.

**B. GPS satellite availability**

The GEC will utilize GPS Satellite Software, for an evaluation of the optimum time for GPS data collection is performed. The latest satellite almanac is used for precise planning of optimum PDOP times and maximum satellite visibility. By utilizing the latest almanac, any satellites having known problems are taken into consideration during the planning process. Dilutions of Precision charts are produced showing the best/worst times of the day for GPS satellite availability. LiDAR flights will be conducted when PDOP is predicted to be at its lowest value for maximum efficiency.

**C. Acquisition Parameters**

The flights will be planned to ensure sufficient sidelap to avoid data gaps. The LiDAR spot Diameter will be approximately 25cm. Aircraft speed and altitude are dependent on the terrain. Our flight planning software generates the safest and most economical data collection parameters for each flight line. The LiDAR data will maintain consistency throughout the project area.

## 2. .LAS File Processing

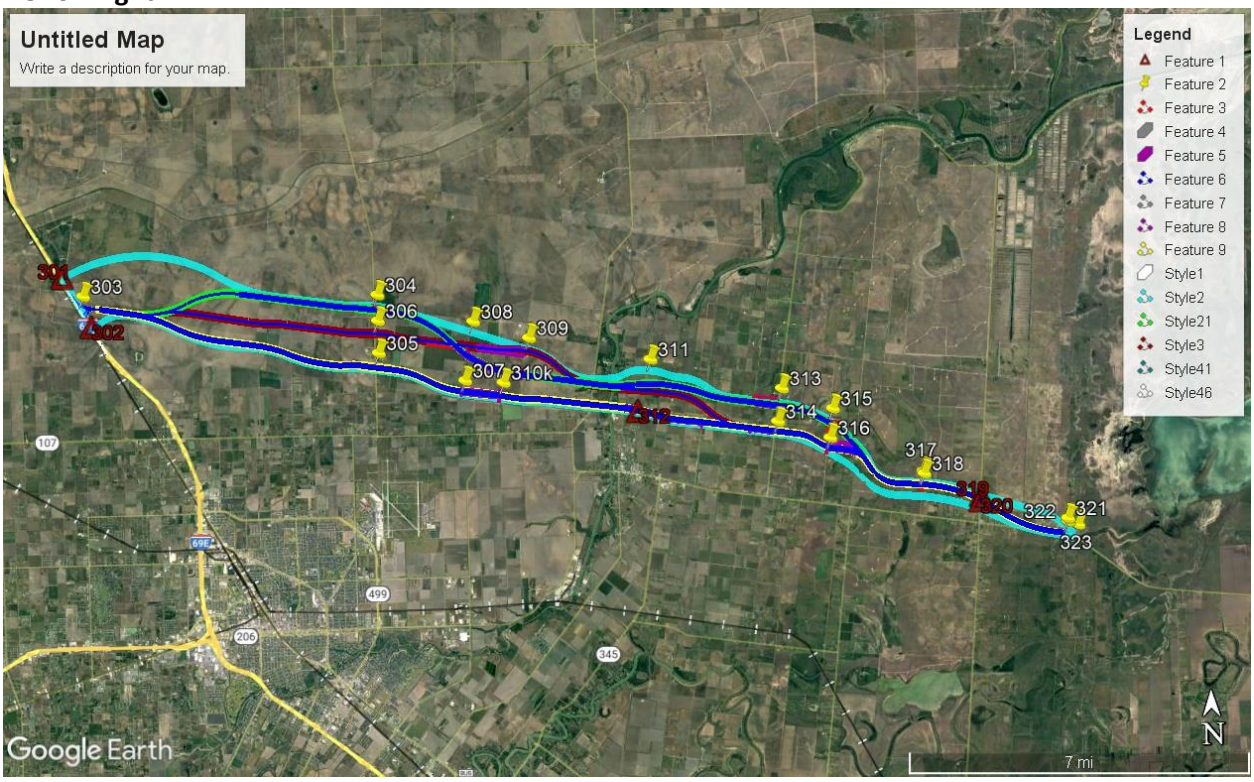
**A. ABGPS / IMU Post Processed**

The GEC will use TerraPos (GPS+GLONASS) post-processing software based on the principle of Precise Point Positioning (PPP, P3). This processing technique uses post-processed precise satellite ephemeris and various sophisticated error modeling such as troposphere, ionosphere, and clock corrections. TerraPos utilizes precise orbits and clock corrections for the satellites, together with advanced error modeling to produce positions with impressive accuracy. The result is an excellent tool for positioning in applications allowing for post-processing, such as airborne photogrammetric or LiDAR operations, seabed mapping, or seismic surveying. Taking advantage of the Trimble Harrier designed stability and RAM'S methodology, we have successfully utilized TerraPos in computing ABGPS, IMU data, LiDAR, and Image orientation, achieving accuracy equal to those computed with ground base stations employed during acquisition flights. For additional control we utilize the National Geodetic Survey (NGS), Continuously Operating Reference Station (CORS) utilizing **Trimble Applanix Smart Base** software. Airborne post processing will use base stations as a top priority with TerraPOS and SmartBase secondary.

**B. LAS Development**

After standard GPS post processing the next phase is to combine the laser measurements with the GPS\IMU data. This task is performed in the Topit LiDAR software (Trimble software) where the SBET (Smoothed Best Estimated Trajectories) and SDC (angle and distances) files are combined to produce an LAS file or Point Cloud. Also, in this process the laser measurements are transformed from WGS84 coordinate to the authority requested Coordinate System.

**AOI of Flight**




**Provide Aerial Lidar services as appropriate for detailed design**

For purposes of this Contract, all standards and specifications will be in accordance with established guidelines and recommended or approved by the CCRMA/State.

- Prepare DGN, DTM, TIN, and Orthophotography files covering the specific work location, meeting standards and specifications as required.
- The current planimetric (DGN) level structure and legend as published by the State shall be maintained where possible.
- The current Digital Terrain Model (DTM) level structure and legend as published by the State shall be maintained where possible.

**Deliverables:**

- Provide 2D Planimetric DGN, 3D TOPO files on a medium and in a format acceptable to the State, delivered on flash drive in the LT Blue Mapping area.
- Provide Orthophotography (created using the DTM) delivered on CD or DVD in tiff format (3 banded) with world files.

**Quality Assurance and Quality Control**

**Preflight QA/QC**

Prior to each LiDAR/Ortho imagery flight, measures are taken to ensure that all specifications for capture are met and completed safely. Weather conditions are monitored, and flights will be suspended if conditions prove to be unsafe and/or will adversely affect data acquisition. High winds and turbulence may cause excessive crab or unfavorable conditions that may affect the quality of the imagery or cause gaps in LiDAR coverage. Under such conditions, data acquisition will be postponed.

Prior to each LiDAR flight, satellite constellation and atmospheric conditions are monitored using Trimble Planning Software v2.9. LiDAR data acquisition is planned so that capture does not occur during periods

of high PDOP. PDOP is considered to be high if it reaches a value of 3.0 or higher. To increase efficiency fuel stops are planned for these times if possible.

Flight plans are configured for optimal coverage using topographic data from Delorme XMap 7 GIS Software Suite. Each flight line is analyzed, and a terrain height is calculated to ensure an accurate flight altitude for complete corridor coverage. In the case of mountainous terrain, other factors will be taken into consideration to calculate the best altitude and flight plan to meet individual project requirements.

The GEC utilizes Trimble Applanix POSPac MMS v5.4 SmartBase technology to review the CORS network during the planning stage of each project. If the CORS network does not provide adequate coverage for the project area, additional ground GPS base stations collecting data at 1 second epochs will be deployed during flight.

**In Flight QA/QC**

During each flight the Harrier system operator monitors all aspects of data capture. PDOP is monitored using the onboard Applanix POS AV system. Unexpected PDOP spikes are noted, and flight lines are re-flown accordingly. The altitude, speed, and attitude of the aircraft are constantly monitored using the POS AV software. In addition, the laser files are checked for validity immediately following the completion of each flight line. In the unlikely event errors are found in the stored laser file, the corresponding flight line is re-flown. Periodically during flight, the collected images are analyzed, and ISO speed and exposure corrections are made accordingly.

**Post Flight QA/QC**

Immediately following each day of capture, all the data is offloaded and copied twice onto separate hard drives. The IMU data and airborne GPS data are checked for continuity utilizing Applanix POSPac MMS software. The ground GPS base data is also analyzed for continuity, quality, and duration to ensure the data spans the entire flight and a quality smoothed best estimated trajectory will be produced.

The LiDAR data is validated onsite prior to demobilization using Trimble TopPIT software. The laser data is checked for required coverage, point density, and anomalies. Areas with coverage gaps that result in failure to meet project specifications are re-flown.

**105.02 FIELD SURVEYING**

The GEC shall provide the following surveying tasks:

1. **Vertical Control for existing Benchmarks**: Locate previously set benchmarks established by Engineer (In accordance with the horizontal control of North American Datum of 1983 (NAD 83) with elevations being based on the North American Datum 88 (NAVD88); establish benchmark circuit (run levels) throughout the Project; establish additional benchmarks at intervals not to exceed 1,000 feet for the limits of the Project; tie benchmarks (station/offset) to Project baseline. Benchmarks shall be 20M (ASTM) (3/4-inch) diameter, 48 inches long, located near the existing ROW line at a measured distance. All benchmark circuits shall be tied to the State's elevation datum. Perform the benchmark circuits in accordance with good surveying practices. The Surveyor shall verify the closure and submit adjustments to the State/Authority for approval prior to beginning the field surveys.
    a. Vertical Control for new Benchmarks: Shall meet the following requirements:
        - TxDOT GPS Level 3 (VRS) Survey guidelines and shall have (X, Y, & Z) coordinates assigned to them. (Access will be provided to State's Real Time Kinematic (RTK) Virtual Reference Station (VRS) Network via license agreement)
        - Provide Station and Offset.
        - Perform a three-wire level routine in SDMS to establish the elevations of the

benchmarks.

b. Profile and cross section intersecting streets and driveways (to 50 feet outside ROW for driveways, and 200 feet for intersecting streets and 500 feet for intersecting streets greater than two lanes wide) for tie into project.
c. Cross section drainage channels for a distance of 200 feet each way outside the ROW lines. Cross sections shall not exceed 100 feet intervals and shall be taken at right angles to the channels.
d. Secure right-of-entry (short of litigation), as needed for the project.
e. Determine and make changes to topography from outdated maps due to development, erosion, etc.
f. Determine type of existing material, pavements, etc.
g. Obtain profiles of existing drainage facilities.
h. Obtain measurement of hydraulic opening under existing bridges.
i. Obtain top of manhole and flowline elevations, type, and size, etc. of manholes, inlets, and valves of utilities.
j. Obtain ties to existing bridges or culverts that may conflict with new construction.
k. Verify DTM (cross sections at panel points). Obtain additional existing ground cross sections as necessary to supplement the DTM files. Obtain cross sections at the center panel points to verify the DTM.
l. Perform datum ties as required. If required, establish an elevation base on the State's datum to other public entities published benchmarks.
m. Establish x, y, and z coordinates on all boreholes performed under Function Code 110.
n. Tie to existing underground and overhead utilities (location, elevation, size, and direction) and the utility locates as obtained under Function Code 130.
o. The Surveyor shall provide all traffic control, labor and equipment while performing their services and comply with the latest edition of the *Texas Manual on Uniform Traffic Control Devices*. In the event field personnel must divert traffic or close traveled lanes, a Traffic Control Plan shall be prepared by the GEC's surveyor and approved by the State/Authority prior to commencement of field work. A copy of the approved plans shall be in the possession of field personnel on the job site at all times and shall be made available to State/Authority personnel upon request.
p. All standards, procedures and equipment used by the Surveyor shall be such that the results of the survey will be in accordance with Board Rule 663.15, as promulgated by the Texas Board of Professional Land Surveyors. At a minimum, the following standards of accuracy shall be met:

**2. <u>Horizontal Ground Control</u>**

The coordinated location of the traverse points shall be based on traverses conducted by the Surveyor meeting standards of accuracy as set forth below.

Reference may be made to standards of accuracy for Second Order, Class II, horizontal control traverses as described in the Federal Geodetic Control Committee publication entitled *Standards and Specifications for Geodetic Control Networks*, reprinted February 1991.

- Azimuth closure shall not exceed 4.5 seconds times the square root of the number of traverse segments.
- Position closure after azimuth adjustment shall not exceed 1 in 20,000.
- In cases where a traverse approaches but does not entirely meet these standards of accuracy and the Surveyor has assured itself that gross errors, mistakes, and blunders have been eliminated, the Surveyor shall submit the traverse data to the State/Authority for further review. The State/Authority will make a determination as to the acceptability of the traverse as an exception to the standard and notify the Surveyor accordingly.

3. **Vertical Ground Control**
   Elevations established on the benchmarks shall be conducted by the Surveyor meeting standards of accuracy as set forth below. Reference may be made to standards of accuracy for third order vertical control traverses as described in the Federal Geodetic Control Committee publication entitled *Standards and Specifications for Geodetic Control Networks*, reprinted February 1991.

   - Vertical closure shall not exceed 0.05 feet times the square root of the distance in miles.
   - In cases where a traverse approaches but does not entirely meet these standards of accuracy and the Surveyor has assured itself that gross errors, mistakes, and blunders have been eliminated, the Surveyor shall submit the traverse data to the State/Authority for review. The State/Authority will make a determination as to the acceptability of the traverse as an exception to the standard, and the State/Authority will notify the Surveyor accordingly.

Document field work and submit field data to the State/Authority

## Environmental

**FUNCTION CODE 120 – PUBLIC INVOLVEMENT AND SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES**

The proposed project shall include the preparation of an environmental document which will be completed in accordance with the National Environmental Policy Act (NEPA, 40 CFR 1500-1508), and other applicable federal and state regulations and guidance (including TxDOT Environmental Compliance Toolkits). An Environmental Assessment (EA) is anticipated to be the appropriate level of documentation to be prepared for this proposed project. Tasks shall be completed through the receipt of a Finding of No Significant Impact (FONSI) for an EA-level document or a Record of Decision (ROD) for an Environmental Impact Statement (EIS), if the EA review determines that an EIS is warranted. The GEC shall perform tasks to complete public involvement and environmental studies to advance the project through final NEPA approval. The preparation of environmental studies shall include requisite technical reports and supporting documentation for TxDOT review. The EA shall document the social, economic, and environmental conditions as well as potential impacts of the proposed project on the human and natural environment. Public involvement/outreach activities shall be conducted as part of the scope of work for an EA-level (or EIS-level) project. A Public Involvement Plan would be completed and coordination with stakeholders and the public would be included in the EA documentation.

**TASK 120.01 – PUBLIC INVOLVEMENT**
The GEC shall provide public involvement support throughout the EA development process. All public involvement procedures shall be conducted in accordance with 43 Texas Administrative Code (TAC) 2.101-2.110, Code of Federal Regulations (CFR) Title 23, Part 771 and the AUTHORITY'S latest policies, procedures, and guidance.

**Subtask 120.01.01 – Mailing List**
The GEC shall develop a project mailing list. The mailing list shall include the owners of property within the designated study area, owners adjacent to the build alternative(s), elected officials, and others who have requested notification of public involvement activities.

**Deliverables:**
- Project Database/Mailing List

**Subtask 120.01.02 – Public Involvement Plan**
The GEC shall develop a Public Involvement Plan (PIP) for the project. The PIP shall specify the activities

to be conducted during public involvement events (e.g., meetings, hearings, etc.). Public involvement activities shall be carried out in compliance with EO 13166 and EO 12898 and similar guidance. The plan shall also include outreach strategies for the general public and targeted strategies for Environmental Justice and Limited English Proficiency populations, as appropriate.

**Deliverables:**

- Public Involvement Plan

**Subtask 120.01.03 – Public Meetings**

The GEC shall make all arrangements for two (2) public meetings. Public involvement procedures shall be conducted in accordance with 43 TAC 2.101-2.110, 23 CFR 771, TxDOT's Environmental Manual, and similar guidance.

**A) Virtual Public Meetings with In-Person Option (2 meetings)**

The GEC shall conduct the following activities to prepare for, set-up and attend the virtual and in-person public involvement activities for the proposed project.

1. The GEC shall prepare for up to two (2) virtual public meetings with an in-person option for two (2) public meetings. The purpose of the virtual and in-person public meetings shall be to inform the public of the proposed project and gather input from the public on the proposed project. The in-person public meetings shall be held in an open house format, anticipating up to 200 attendees for each meeting. The public shall have the opportunity to provide written and verbal comments, but no formal presentation or open public comment session shall be held at the in-person public meetings. The GEC shall secure the meeting venue (e.g., Rio Hondo Civic Center) for the in-person public meetings.
2. The GEC shall provide a pre-recorded presentation to the AUTHORITY and TxDOT-Pharr District for review and approval of the virtual public meeting content to accompany the two (2) in-person public meetings. Upon approval, the virtual public meeting presentation shall be published online on the TxDOT website, or similar forum, and shall convey the same information that would be presented at the in-person public meetings. Additionally, any public meeting handouts or information available during the in-person public meetings shall be made available on the website as part of the virtual public meetings.
3. The GEC shall develop one (1) public meeting notice (in English and Spanish) for each public meeting; the meeting notice shall be published at least 15 days prior to each public meeting. The notices shall be submitted to the AUTHORITY and the TxDOT-Pharr District for review and approval. The English and Spanish public meeting notices shall be placed in at least two (2) local papers (one English text newspaper and one Spanish text newspaper) and may include a project location map, if appropriate. The public meeting notices shall also be published online on the TxDOT website and/or applicable city or county social media accounts.
4. The GEC shall prepare and mail the public meeting notices (English and Spanish) to landowners, lessees, etc., whose property is located within the proposed study area and others who have requested notification of public involvement activities. Such notifications shall be sent using regular mail by the U.S. Postal Service.
5. The GEC shall prepare a public meeting letter of invitation for local, and state elected officials, which shall be printed and signed by the AUTHORITY, GEC or TxDOT as determined by the AUTHORITY. The GEC shall prepare and update a mailing list of elected officials. Alternatively, TxDOT may provide a current listing of elected officials to the GEC. The elected officials' letters shall be mailed approximately 45 days in advance of the public meetings/hearing using regular mail by the U.S. Postal Service.
6. The GEC shall prepare three (3) handouts (comment form, location map, and project overview sheet), indoor and outdoor signage, sign-in sheets, and up to 22 exhibit boards (11 each in English and Spanish). All printed handouts and exhibits shall be provided in English and Spanish.

7. The GEC shall provide up to eight (8) engineering and environmental staff members to attend each public meeting for the purpose of providing informational materials for the proposed project, answering questions, and addressing local concerns regarding the proposed roadway, staffing the sign-in table, and providing meeting management. Spanish speaking staff members will be available at each public meeting/hearing.
8. The GEC shall prepare two (2) public meeting summary reports (PMSR); one (1) summary report shall be prepared for each virtual/in-person public meeting in accordance with TxDOT's *Environmental Handbook for Public Involvement* and current TxDOT document templates and/or similar federal guidance.
9. The GEC will make arrangements for a one (1) court reporter to record the public hearing and provide a verbatim transcript following the hearing.

**B) Pop-up Community Engagement Events (2)**

The GEC shall prepare for and conduct two (2) pop-up community engagement events. The pop-up events are designed to occur in areas frequented by the community to reach the public at locations and times of high community activity. The two (2) pop-up community engagement events would supplement the two (2) public meetings scheduled for the proposed project. Pop-up events are typically two (2) hours in duration and are meant to engage the public at locations such as parks, community centers, outside businesses, or churches, or in other areas in which people routinely congregate. Exhibit boards, comment forms, etc., are provided at these events so that project representatives may engage the public in an informal setting. The goal of the pop-up community engagement events is to solicit comments from the public on the proposed project.

**C) Meeting With Affected Property Owners (MAPO)**

The GEC shall coordinate/conduct up to two (2) stakeholder workshops or MAPOs to obtain comments regarding project, location, and alignment. A MAPO summary would be provided by the GEC.

**Deliverables:**

- Draft/Final Notice of Virtual Public Meeting with In-Person Option (English and Spanish)
- Public Meeting Notice/Letter of Invitation to Public/Elected Officials
- Pre-recorded Video Presentation for Virtual Public Meetings, as applicable
- Public Meeting Handouts (comment forms, location maps, project summary or fact sheets, exhibit boards, etc.)
- PMSR for each Public Meeting including the Pop-up Community Engagement Events (to be included in the EA)
- Exhibit Boards (up to 22 per meeting/hearing)
- MAPO summary

**D) Notice Affording an Opportunity for a Public Hearing (NAOPH) and Other Notifications**

Upon determination of the EA as "satisfactory for further processing" by TxDOT, the GEC shall prepare, in coordination with the AUTHORITY and TxDOT-Pharr District, a public notice affording an opportunity for a public hearing. The notice shall be written in English and Spanish and shall be published in at least one (1) English text newspaper and in at least one (1) Spanish text newspaper. Both papers would circulate in the general project area. Additionally, the notice shall be published online on the TxDOT website and/or applicable local social media accounts.

The GEC shall develop one (1) letter to adjoining property owners, the general public and stakeholders announcing the opportunity for a public hearing and the availability of the EA. Letters shall be written in English and Spanish. The GEC shall send letters to adjoining property owners and other stakeholders

via regular mail using the U.S. Postal Service.

The GEC shall develop one (1) letter to elected officials announcing the opportunity for a public hearing. The GEC shall send letters to elected officials using regular mail by the U.S. Postal Service. The GEC shall also develop the notice of availability of the EA for review and approval by the AUTHORITY and TxDOT.

**Deliverables**:

- Draft/Final NAOPH (English and Spanish)
- Documentation of the NAOPH shall be incorporated into the EA
- Draft/Final Notification Letters (adjoining property owners, elected officials)
- Notice of Availability of the EA

**Subtask 120.01.04 – Public Hearing**

The GEC shall follow the TxDOT guidance for public hearings (similar activities to those previously outlined/described in Section 120.01.03, A) 1-9 – Virtual Public Meeting with In-Person Option). The Public Hearing shall include an open house forum for project information and exhibits followed by a formal presentation. Speakers shall be allowed a specified time period (typically 3 minutes) to voice their project comments at the Public Hearing. The GEC shall make arrangements for one (1) court reporter to provide a verbatim transcript of the Public Hearing presentation and comments. A virtual component of the public hearing would be included as part of the public hearing task, as appropriate. Documentation of the Public Hearing (Public Hearing Summary Report) would be included in the EA. Public Hearing comments would also be addressed and incorporated into the EA.

**Deliverables**:

- Draft/Final Notice of Virtual Public Hearing with In-Person Option (English and Spanish)
- Public Hearing Notice/Letter of Invitation to Public/Elected Officials
- Pre-recorded Video Presentation, as applicable
- Public Hearing Handouts (comment forms, location maps, project summary or fact sheets, exhibit boards, etc.)
- Public Hearing Summary Report of the Public Hearing (to be included in the EA)
- Court Report verbatim transcript

**TASK 120.02 – ENVIRONMENTAL DOCUMENTATION**

The GEC shall conduct field reconnaissance investigations to gather data including but not limited to previous studies, land use/land records, property and facility management records, engineering data, permits, public safety requirements, and/or environmental analyses from previous studies. Field studies shall be conducted followed by the preparation of a series of technical reports and an environmental document which meets the requirements of NEPA. The GEC shall prepare an EA-level document that satisfies the requirements of 23 CFR 771, 43 TAC 2.101-2.110and TxDOT's current environmental guidance. Should significant impacts to the human environment be identified as a result of the EA preparation activities, then an EIS may be required. If the environmental review process determines that another level of environmental documentation is required (e.g., EIS), the effort associated with preparing another document type shall be considered out of scope and subject to a separate work authorization.

The GEC understands that the Surface Transportation Project Delivery Program (23 USC 327) allows the Secretary of Transportation to assign and a state (such as Texas) to assume the Secretary's responsibilities under the NEPA and other related environmental laws for highway/roadway projects. This federal assignment program to states is called NEPA assignment. NEPA assignment is intended to streamline the federal environmental review process by eliminating FHWA project-specific reviews and subsequent

approvals. NEPA assignment therefore allows the participating state the project-specific reviews and approval on selected projects. The FHWA provided NEPA assignment to TxDOT (23 USC 327) through a Memorandum of Understanding dated December 9, 2019.

**Subtask 120.02.01 – Development of Study Area and Constraints Mapping**

The GEC shall coordinate with the AUTHORITY and TxDOT in the designation of a study area within which the project alternatives will be developed; any previously developed study area may be advanced for this project. The GEC shall determine preliminary environmental constraints and complete an analysis of alternatives. The GEC shall conduct desk-based and field surveys/studies with respect to potential environmental constraints within the proposed project study area (including proposed alternative ROWs, as appropriate). The GEC shall develop a constraints map to identify potential environmental and infrastructure constraints within the study area. Identified constraints shall be mapped to illustrate considerations for public review and shall be utilized as an analysis tool for comparing potential impacts between alternatives. Data sources to be researched and/or referenced in the development of a constraints map and shall include but will not be limited to floodplain maps, National Wetland Inventory (NWI) maps, hazardous materials database information, Texas Historical Commission (THC) historic sites (public information sites such as roadside markers, etc.), THC restricted archeological data as appropriate (note that site locations must be redacted in any public-facing deliverables), aerial photographs, U.S. Geological Survey (USGS) 7.5-minute quadrangle maps, utilities, public facilities, city maps, county maps and other readily available sources of information.

GEC will provide the Authority with GIS shapefiles of sensitive archeological resources within the study area, including previously documented archeological sites, cemeteries, historical markers, properties, and districts listed in the National Register of Historic Places (NRHP), and State Antiquities Landmarks (SALs).

**Deliverables:**

- Archeological resources GIS shapefiles.

**Subtask 120.02.02 – Purpose and Need**

The GEC shall identify and finalize project purpose, need, project description, and overall approach to project development (detail the consideration or problem that the proposed transportation project is intended to address).

A) Need – The EA shall explain why the project is proposed, including a description of the existing facilities and unsatisfactory conditions to be remedied or satisfied (e.g., provide system continuity, alleviate traffic congestion, improve safety, or improve roadway unsatisfactory conditions).
B) Purpose – The EA shall describe the purpose/goal(s) or desired outcomes that would be attained if the proposed project was implemented. The objectives shall be clearly expressed and useful for identifying the alternative(s) that do and do not warrant consideration as a possible preferred alternative.

The AUTHORITY and TxDOT may review the need and purpose information upon project initiation. The EA shall provide a brief historical description of previous planning, scoping, and public outreach processes, if any, that resulted in identifying the need of the proposed project. The EA shall reference the applicable transportation improvement plan and relevant Rio Grande Valley Metropolitan Planning Organization (MPO) information from approved planning documents, if appropriate. Other relevant studies in the proposed study area may be referenced as needed.

**Deliverables:**

- Draft and Final Purpose and Need Statements (included in the EA)

**Subtask 120.02.03 – Alternatives Development and Analysis**
The GEC shall evaluate the No Build Alternative and Build Alternatives. The Build Alternatives shall be examined against the No Build baseline and shall be discussed at equal levels of detail to provide an equitable comparison of the project alternatives based upon the need, purpose, and potential impacts to the human and natural environment.

The GEC shall assist with the development of alternatives resulting from preliminary engineering studies and the environmental constraints analysis. The GEC shall develop methodologies and environmental screening criteria to assist the AUTHORITY in the identification of viable preliminary alternatives suitable for further evaluation. The Alternative Analysis shall clearly document the basis for the elimination of alternatives and selection of a Recommended Preferred Alternative (inclusive of public involvement / comments). For scoping/budgeting purposes up to three (3) reasonable Build Alternatives and the No Build alternative shall be evaluated. Should it be necessary to evaluate additional alternatives, the associated effort shall be authorized through a supplemental work authorization.

Following the Alternatives Analyses, it is anticipated that a Recommended Preferred Alternative (Build Alternative) and a No Build Alternative will be carried forward in public involvement meetings for which public comments will be solicited and advanced in the EA for detailed analysis. Alternatives that were considered and eliminated from further study will be summarized and included in the EA as appropriate.

**Deliverables:**
- Alternative Analysis (included in the EA)

**Subtask 120.02.04 – Project Scoping Coordination**
The GEC shall assist TxDOT with the requirements of the Work Plan Development (WPD) I, II and/or III forms, if required. TxDOT shall incorporate the WPD information into ECOS, as appropriate.

**Deliverables:**
- WPD forms (or selected sections of the forms) for submittal to TxDOT, if required

**Subtask 120.02.05 – Land Use**
The GEC shall develop a general description of the study area. The GEC shall analyze the potential project impacts to land use. The analysis shall quantify the acreage of land that would be converted to transportation use and address the conformance of the proposed project with local and regional plans and policies.

**Deliverables:**
- Section included in the EA

**Subtask 120.02.06 – Farmland, Soils, and Geology**
The GEC shall identify agricultural/farmland areas within the proposed project limits. The identification of potential farmland impacts shall be conducted in accordance with the Farmland Protection Policy Act (7 USC 4201 et. seq.). Potential farmland impacts shall be reported in the EA as the proposed study area may be located within agricultural areas designated as prime or unique farmlands. If required, Natural Resources Conservation Service (NRCS) Form NRCS-CPA-106, "Farmland Conversion Impact Rating for Corridor Type Projects" would be completed, processed with the NRCS, and included in the EA as appropriate.

The GEC shall evaluate potential soil, and geological impacts within the proposed project limits. Data from the Bureau of Economic Geology (BEG) and the NRCS shall be utilized in the evaluation.

**Deliverables:**

- Section included in the EA

**Subtask 120.02.07 – Socioeconomic, Environmental Justice and Community Considerations**

The GEC shall evaluate potential social and economic impacts within the proposed project limits. The GEC shall use appropriate data sources, such as the U.S. Census 2020, windshield surveys, maps, and aerial photographs to assess existing conditions and to evaluate population and demographic characteristics, environmental justice, disabled populations, Limited English Proficiency, and employment characteristics. Potential social and economic considerations to be assessed and documented include:

- Demographics (population, ethnic/racial distribution, income, etc.) based on the most recent US Census Bureau data or American Community Survey (ACS) estimates, or other community surveys.
- Land uses in the study area (e.g., residential communities, community services, schools, etc.).
- Other potential impacts identified in local studies of social impacts or MPO data.

Though most of the study area is undeveloped and land in the vicinity of the proposed project is mixed-use (i.e., undeveloped, residential, limited commercial/industrial), the GEC shall identify potential displacements and/or replacement sites (e.g., residential or business), if required. The GEC shall identify the racial, ethnic, and income levels of any affected individuals and/or communities, in order to determine any potential disproportionate impacts on any minority, Limited English Proficiency, or low-income individuals or communities. Such studies shall fulfill the requirements of Executive Order 12898 – Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations and Executive Order 14096 – Revitalizing Our Nation's Commitment to Environmental Justice (EJ) for All, and/or similar federal or state EJ initiatives, as appropriate. The EA shall include a discussion of the basis for the determination of social, economic, and environmental significance, as appropriate.

The GEC shall conduct a Community Impact Assessment, if needed, including the identification of any displacements, changes in access to residential/commercial areas, changes in access to public facilities, changes in travel patterns, changes to community cohesion, EJ analysis in accordance with Executive Order 12898, Executive Order 13166 – Improving Access to Services for Persons with Limited English Proficiency (LEP), and Executive Order 13045 – Protection of Children from Environmental Health Risks and Safety Risks. The GEC shall conduct an analysis sufficient to meet the requirements of Technical Advisory (TA) 6640.8A. The Community Impact Assessment shall follow guidance provided in TxDOT's Environmental Handbook for Community Impacts, Environmental Justice, Limited English Proficiency and Title VI (Version 3), or similar federal guidance.

**Deliverables**:

- Sections included in the EA
- Community Impact Assessment Technical Report Form (with attachments)

**Subtask 120.02.08 – Water Resources**

The GEC shall document compliance with laws and regulations concerning the management of water resources in accordance with the current version of the TxDOT *Environmental Handbook for Water Resources*.

A) Surface Water

The GEC shall assess surface water features within the project limits (e.g., resacas, arroyos, open water, drainage ditches, irrigation canals, washes, draws, creeks, streams, rivers, etc.). Impacts to surface waters would be assessed for the Build Alternatives in the EA. The Texas Commission on Environmental Quality (TCEQ) Section 303(d) list of impaired waters would be reviewed to evaluate the presence of any impaired

waters within the area of the proposed project. The GEC shall complete the TxDOT Surface Water Analysis Form.

B) Floodplains

Executive Order 11988 requires federal agencies to determine whether a proposed action occurs within a floodplain. Executive Order 11988 directs each federal agency to take action 1) to reduce the risk of losses associated with floods, 2) to minimize the impact of floods on human health and safety, and 3) to preserve the beneficial values of floodplains. The GEC shall evaluate the study area regarding Federal Emergency Management Agency (FEMA) designated/mapped areas, flood event impacts, flood control measures, encroachments of the 100-year floodplain, developed areas in or near the 100-year floodplain, local watersheds, and drainageways. The EA shall document the floodplains, if any, that could be potentially impacted by the proposed project.

C) Groundwater

The GEC shall evaluate the study area regarding aquifers, groundwater presence and/or availability. This evaluation shall include the identification of local public drinking water systems.

D) Waters of the US, including Wetlands

Section 404 of the Clean Water Act (CWA) regulates the discharge of dredged or fill material into waters of the US, including wetlands. The USACE administers the permitting program for actions under Section 404 of the CWA. The GEC shall prepare the delineation of waters of the US, including wetlands or other special aquatic sites, for areas within the preferred alternative. The delineation would be conducted in accordance with the 1987 Corps of Engineers Wetland Delineation Manual and the appropriate Regional Supplement to the Corps of Engineers Wetland Delineation Manual.

The GEC shall collect background data (i.e., aerial/color infrared aerial photographs, topographic data, etc.) prior to the field investigation. If ROE/field access is not authorized on all proposed study area/ROW parcels, the GEC shall utilize other available resources such as the NRCS Web Soil Survey data, aerial photography, topographic maps, and National Wetlands Inventory (NWI) data, etc., to delineate waters of the US, including wetlands, within the preferred alternative or related areas. Note that the presence of water in surface water features, wetlands or special aquatic sites is not required for the assessment of such features.

The delineation would consist of staking and mapping identified waters of the US, including wetlands and other special aquatic sites. Under normal circumstances, wetlands must possess three essential characteristics: hydrophytic vegetation, wetland hydrology, and hydric soils. Indicators of these characteristics would be documented in the wetland areas, as well as in the nearby upland areas, to determine the presence (or absence) of wetland characteristics. Waters of the US shall be delineated in the field and recorded using a Trimble® Geo7X Global Positioning System (GPS) and/or similar technology (i.e., drones, etc.). Areas extending beyond the preferred alternative ROW shall be noted but not delineated during the field investigation of the preferred alternative. Wetland data forms shall be completed at vegetative community changes within the preferred alternative ROW as well as in other areas to determine the geographical boundary of a wetland or the ordinary high-water mark (OHWM) of a stream/creek.

The GEC shall draft a Water Features Delineation Report, following TxDOT guidance, which summarizes the methods and results of the delineation activities as well as associated mapping (i.e., vicinity, site location, topography, aerial photograph, LiDAR, soils, floodplains, NWI, etc.), site photographs, wetland data point locations/forms, acreage summary tables, and other supporting data (e.g., antecedent precipitation data). The Water Features Delineation Report shall be submitted to the USACE as part of the Section 404 permit application process, if required at a later date.

An assessment of the appropriate Section 404 permit requirements will be made by the GEC. If a Section 404 Individual Permit or Nationwide Permit Pre-Construction Notification is required, preparation of such permit applications shall be carried out under a supplemental work authorization.

E) Other Water Resource Considerations

The GEC shall evaluate water quality impacts, including a review and evaluation of the most recent TCEQ Section 303(d) list, particularly for the Arroyo Colorado and related areas. A proposed crossing of the Arroyo Colorado shall be evaluated for tidal considerations; early coordination with the U.S. Coast Guard and National Marine Fisheries would be conducted as required. Any permitting (e.g., US Coast Guard bridge permit application, etc.) or required surveys outside the scope of this document would be initiated under a supplemental work authorization at a later date.

**Deliverables**:

- Sections included in the EA
- Surface Water Analysis Form
- Water Features Delineation Report

**Subtask 120.02.09 – Archeological Resources**

The proposed project shall be evaluated for compliance with the Antiquities Code of Texas and Section 106 of the National Historic Preservation Act of 1966, as amended (NHPA).

A) Archeological Background Study

The GEC shall conduct database searches of the restricted Sites Atlas maintained by the Texas Historical Commission (THC) and Texas Archeological Research Laboratory (TARL) to identify previously documented archeological sites, cemeteries, historical markers, properties, and districts listed in the National Register of Historic Places (NRHP), and State Antiquities Landmarks (SALs). Results of the search shall be integrated with soil information, topographic maps, aerial photographs, and other appropriate data sources to develop an archeological background study that conforms to TxDOT's standards. The background study shall include the preferred alternative and one kilometer around it. Due to the new-location nature of the proposed project, a field study is anticipated to be required.

B) Phase I Archeological Survey

Following approval of the background study, the GEC shall integrate the information described in the Archeological Background Study with updated data and/or reviewer comments in an application for a Texas Antiquities Permit on behalf of the AUTHORITY and TxDOT. The survey would cover the archeological area of potential effects (APE) for the proposed project, which would consist of all locations for which ground disturbing activities are proposed for the preferred alternative.

After a valid permit number is obtained from the THC, investigations shall be conducted at the Phase I intensive-survey level according to current field and documentation standards promulgated by the THC and Council of Texas Archeologists (CTA). The field investigations shall include a pedestrian survey augmented with shovel testing to delineate previously identified sites and to identify previously unidentified archeological resources. Soils, landforms, and site types in the area indicate mechanical trenching will likely be required, but the level of effort is unclear prior to coordination with the THC, TxDOT, and the AUTHORITY. A supplemental scope and fee will be developed following initial regulatory coordination.

This investigation shall evaluate archeological resources for their potential eligibility for inclusion in the NRHP per Section 106 of the NHPA and designation as a State Antiquities Landmark (SAL) under the provisions of the Antiquities Code of Texas. Reporting of results, including preliminary NRHP/SAL

evaluations of any identified archeological resources, will comply with THC and CTA guidelines and will be coordinated with the THC, the GEC, the AUTHORITY, and TxDOT per the terms of the approved archeological permit.

Draft and final reporting of results, including preliminary NRHP/SAL evaluations of any identified archeological resources, shall comply with THC and CTA guidelines. A draft report will be submitted first to the GEC for comments; these comments will be incorporated into a revised draft report to be submitted to the THC for review.

Following the approval of the final report, the GEC shall curate all records associated with the project at a state-approved curatorial facility. Given that the bulk of the alignment is expected to be privately owned at the time of the investigations, a non-collection policy (i.e., field documentation only, except in the case of extraordinary finds) is anticipated.

This scope does not include mechanical excavations, Phase II testing (i.e., targeted excavations at individual sites to formally determine NRHP eligibility), Phase III data recovery (i.e., controlled mitigation of a site determined eligible and where avoidance is not feasible), or human burial identification, analysis, Texas Health and Safety Code (THSC) coordination, exhumation, or reinterment.

**Deliverables:**

- Sections included in the EA
- Draft/Final Archeological Background Study
- Draft/Final Antiquities Permit Application
- Draft/Final Archeological Report

**Subtask 120.02.10 – Historic Built Environment Resources**

Once a preferred alternative is identified, the GEC (subconsultant Stantec) shall conduct database searches of the THC Sites Atlas to identify properties and districts listed in the NRHP, National Historic Landmarks (NHLs), SALs, Registered Texas Historic Landmarks (RTHLs), TxDOT's previously surveyed historic districts and properties, and historic bridges. All information shall be presented in the standard historic Project Coordination Request (PCR; July 2021 version) form for submittal by the GEC or AUTHORITY to TxDOT ENV. This scope assumes up to 30 historical resources identified in PCR and that the GEC can provide photographs for the PCR documentation, to avoid multiple field mobilizations.

Following coordination initiated by the PCR, the GEC shall prepare a research design, including a historic context and proposed methodology for survey and evaluation based on the current TxDOT Documentation Standard for Research Designs. Following approval of the research design, the GEC would undertake a reconnaissance survey of the APE, which is assumed to be 300 feet from existing and proposed right-of-way (ROW). The GEC shall produce a report compliant with TxDOT's Documentation Standard for Reconnaissance Surveys. The report will include documentation of all historic-age properties surveyed, NRHP eligibility determination for each resource, an evaluation of the presence of eligible historic districts, and a determination of whether the proposed project would adversely affect NRHP listed or eligible properties or districts.

This proposal does not include Draft/Final Reconnaissance Survey. This work shall be negotiated upon determination of the number of historically significant items that will require the work.

**Deliverables:**

- Sections included in the EA

- Draft/Final PCR
- Draft/ Historic Resources Research Design

**Subtask 120.02.11 – Vegetation and Habitat**
The GEC shall conduct an analysis of existing wildlife habitat within the study area and potential project-related impacts to such habitat. If the GEC encounters protected species or habitat for protected species, the GEC shall notify the AUTHORITY immediately.

If special or unusual habitat features are present, additional details shall be included in the description to clearly describe the feature(s) and to explain why the feature(s) should be regarded as unusual or special. Areas of unusual vegetation or special habitat features often correlate with suitable habitat for protected and imperiled species. Unusual vegetation may include, but is not limited to, unmaintained vegetation, trees or shrubs along a fence line adjacent to a field (i.e., fence row vegetation), riparian vegetation (particularly where fields or cropland extend up to or abut the vegetation associated with the riparian corridor), trees that are considered ecologically significant or locally important, or are substantially larger than other trees in the area, and unusual stands or islands of isolated vegetation.

Special habitat features may include, but are not limited, to bottomland hardwoods, caves, cliffs and bluffs, native prairies (particularly those with climax species of native grasses and forbs), seeps or springs, drainage features, snags (i.e., dead trees or groups of dead branches), hollow trees, trees with cavities, leaf-cutter ant beds, harvester ant mounds, water bodies (e.g., creeks, streams, rivers, wetlands, playa lakes, ponds [temporary and permanent, natural, and man-made] etc.), existing bridges with known or easily-observed bird or bat colonies, rookeries, or prairie dog towns (per TxDOT Guidance: Conducting Habitat Assessments and Presence/Absence Surveys, Version 1).

The habitat analysis shall contain a description of anticipated impacts to vegetation and shall follow the TxDOT *Environmental Handbook: Ecological Resources* (Version 3) guidance. The description of vegetation shall include the acreage for each vegetation type observed. The description of anticipated impacts shall be based on impacts that may be predicted as a result of construction activities. If lack of ROE access to the project study area limits the field observations for the habitat areas, existing published sources (e.g., aerial photography, etc.) shall be used to provide an estimate.

The GEC shall assess project-related impacts to vegetation and include a description of any unusual vegetation features or any noteworthy trees, shrubs, etc., identified during field investigations. Vegetation types will be identified using the Texas Parks and Wildlife Department (TPWD) Ecological Mapping Systems of Texas (EMST) data and other similar tools, as appropriate.

**Deliverable:**
- Sections included in the EA

**Subtask 120.02.12 – Threatened and Endangered Species**
For the purposes of this scope of work, protected species shall include:
- Species listed by the US Fish and Wildlife Service (USFWS) as threatened or endangered or proposed for listing as threatened or endangered (50 CFR 17.11-12);
- Species that are candidates for review or listing by the USFWS as threatened or endangered (per most recently updated list in the Federal Register);
- Species listed by the Texas Parks and Wildlife Department (TPWD) as threatened, endangered or species of greatest conservation needs (SGCNs) as reflected in the TPWD Annotated County List of Rare Species, Cameron County, Texas; and

- Species protected by the Migratory Bird Treaty Act (50 CFR 10.13).

The GEC shall examine existing data to determine the likelihood that protected species, their habitat or designated critical habitat (per 50 CFR 17.94-95) could be impacted by the proposed project; findings shall be reported in the EA. Documentation shall follow the TxDOT *Environmental Handbook: Endangered Species Act* (Version 4) guidance. Existing data shall include the USFWS Information for Planning and Consultation (IPaC) records, USFWS County lists of threatened/endangered species, and the TPWD Natural Diversity Database. Species-specific presence/absence surveys for one (1) protected species or critical habitat are included in this scope of services. If more than one species-specific presence/absence survey or critical habitat survey is required, a supplemental work authorization would be needed. Requisite TxDOT species analysis forms would be completed for the proposed project. A Biological Assessment (BA), if required, would be completed under a separate work authorization.

Regarding mussels (threatened, endangered or non-listed species), the GEC shall prepare applications for Permits to Introduce Fish, Shellfish, or Aquatic Plants into Public Waters (Introduction Permit) Relocation Plan (single) for the project area and submit these documents to the TPWD Inland Fisheries Division. The GEC assumes that one Aquatic Resource Relocation Plan (ARRP) shall cover survey and relocation efforts on all Group 5 streams where in-water work would occur. The ARRP shall provide survey methodology appropriate for Group 5 streams. Survey protocols shall include contingency methodologies for instances of state-listed mussel collection or other Group 3 stream survey protocols. If federally- listed species are encountered, the GEC shall terminate the survey, return the federally- protected species to the location the species was found, and relocate all other collected mussels in accordance with the TPWD-approved ARRP and Introduction Permit. The GEC shall report the federally listed species finding to TPWD and the USFWS, as appropriate and advise on next steps. If additional survey is required to address the presence of federally listed species, the GEC could provide these services under a supplemental work authorization.

In Group 5 streams where mussels or habitat may occur, surveys shall be conducted in one-person-hour increments for a minimum of five person-hours. Current assumptions related to the level of effort are based on a fully impacted right-of-way (400-foot typical width) with a 25-meter upstream buffer, a 50-meter downstream buffer, and, where allowable by channel morphology, a 10-meter lateral buffer. If design advancement allows, each survey area shall be refined to focus on the area of direct impacts and appropriate buffers. Site conditions shall be documented including wetted area at the time of the survey and the extent of the survey area. Representative photographs shall include, at a minimum, a view of the survey area, views of each bank within the survey area, and views looking upstream and downstream from the survey area.

Malacologists shall document general habitat conditions in the survey area. The results of each one-person hour survey will be recorded separately and will include the length measurement of each collected mussel. If greater than 100 mussels of any species are collected, a representative subsample of 100 mussels will be measured. Lengths of the smallest and largest individuals of a species collected at a site will also be recorded if not included in the subsample of 100 mussels.

Representative photographs including lateral exterior view, dorsal view, anterior view, and interior view if dead, with scale reference shall be taken of at least one individual of each species collected. Additionally, if any individuals cannot be definitively identified to species, representative photographs shall be taken of those individuals prior to relocation. The GEC shall not voucher any live mussels during the survey and relocation process.

**Deliverables:**

- Sections included in the EA
- Draft/Final TxDOT Species Analysis Form and Spreadsheets

**Subtask 120.02.13 – Traffic Noise**

The GEC shall complete a traffic noise analysis using the FHWA Traffic Noise Model® (TNM®), Version 2.5, in accordance with the TxDOT *Traffic Noise Policy Implementation* and related guidance. Noise analyses shall be conducted for the preferred alternative. The GEC, subconsultant or TxDOT shall develop predicted (future) traffic data and additional information (e.g., k-factor, directional split/distribution, percent trucks such as light/medium/heavy trucks, annual average daily traffic, design hourly volume, etc.) required for inclusion in the TNM®.

The GEC shall identify representative receivers that may be impacted by project-related traffic noise and that may benefit from feasible and reasonable noise abatement. The GEC shall determine existing and predicted noise levels for representative receivers. The GEC shall:

- Conduct field measurements of existing ambient noise levels. Field measurements are anticipated to be collected at up to six (6) locations along the preferred alternative pending TxDOT ENV location approval.
- Conduct computer modeling of existing noise levels and predicted (future) noise levels.
- Identify impacted receivers in accordance with TxDOT's absolute and relative impact criteria.
- Consider and evaluate all required noise abatement measures for impacted receivers in accordance with the feasible and reasonable criteria.
- Propose noise abatement measures, if required, that are both feasible and reasonable.
- Determine predicted (future) noise impact contours for adjacent undeveloped properties where development is likely to occur.

**Deliverables:**

- Sections included in the EA
- Draft/Final Traffic Noise Technical Report

**Subtask 120.02.14 – Air Quality**

The GEC shall conduct an air quality analysis, including a Mobile Source Air Toxics (MSAT) qualitative analysis, as needed, in accordance with TxDOT's *Environmental Handbook for Air Quality* (Version 6). The National Ambient Air Quality Standards for Cameron County shall be assessed. The TCEQ air quality designations shall be reviewed for the region/area of the proposed project (e.g., attainment, non-attainment, etc.). The effects (positive or negative) of the proposed project on local air quality shall be evaluated, including the potential for fugitive dust particulate emissions during construction activities.

**Deliverables:**

- Sections included in the EA

**Subtask 120.02.15 – Hazardous Materials**

The GEC shall conduct an Initial Site Assessment (ISA) for potential hazardous materials impacts for the proposed study area in accordance with TxDOT's *Environmental Handbook for Hazardous Materials* (Version 3), or other similar guidance. The ISA shall determine the potential for encountering hazardous materials in the general study area, including possible environmental risks, handling, or disposal requirements (e.g., for any identified soil or groundwater impacts), and any potential health and safety considerations.

The completed ISA shall include, when applicable, copies of third-party (i.e., subconsultant/vendor) government regulatory database search reports including maps depicting locations of recorded sites, copies of agency file information, photographs, recommendations, and any other supporting information gathered by the GEC to complete the ISA. The GEC shall include the information presented in the

completed ISA in the relevant section(s) of the EA. Tasks may include some or all of the following:

- A concise summary of information gathered during the ISA, including sufficient information to show that the proposed study area was adequately investigated for known or potential hazardous material contamination.
- A concise description of the scope of the ISA, disclosure of any limitations of the assessment, and a statement indicating who conducted the assessment.
- A concise summary of the findings of the ISA, along with an opinion of the potential for any suspected hazardous material contamination sites to impact the proposed project during construction.
- A discussion of any actions recommended for conducting further investigation of suspect areas, and/or justification for the advancement or postponement of further investigations.
- A summary of efforts to be employed to avoid or minimize involvement with known or suspected hazardous material contamination sites during construction, and justification for not avoiding contaminated sites within the preferred alternative or corridor alignment.
- Disclosure of any known or suspected hazardous material contamination that is anticipated to be encountered during construction.
- A discussion of any required or recommended special considerations, contingencies, or provisions to handle known or suspected hazardous material contamination during ROW negotiation and acquisition, property management, design, and construction.
- A summary of any early coordination or consultation conducted with the regulatory agencies, local entities, or property owners regarding the potential presence of hazardous materials.
- A discussion of any further hazardous materials-related coordination with, and approvals or permits required from, the regulatory agencies or other entities.

Should the findings of the ISA conclude that additional investigations, special considerations, or other commitments are required during future stages of project development, the GEC shall review those findings and commitments with the AUTHORITY prior to completing the hazardous materials documentation for the EA. Such commitments may be included on the construction-related Environmental Permits, Issues and Commitments (EPIC) forms for the proposed project.

This ISA does not include a Phase I (ASTM E1527-21) or Phase II Environmental Site Assessment, interviews with property owners, or reviews of fire insurance maps, deed records, city directories, property tax files or other sources.

**Deliverables:**

- Sections included in the EA
- TxDOT Hazardous Materials ISA Form

**Subtask 120.02.16 – Indirect and Cumulative Impacts**

The GEC shall assess the indirect and cumulative impacts that would result from the proposed project based on TxDOT's Guidance: *Indirect Impacts Analysis* (Version 3) and *Cumulative Impacts Analysis Guidelines* (Version 3). The assessment of indirect impacts shall include induced growth indirect impacts and encroachment alteration impacts. The assessment of cumulative impacts shall include impacts to the environment which may result from incremental impacts of the proposed project when added to other past, present, and reasonably foreseeable future actions in the general study area.

**A) Indirect Impacts Analysis**

For induced growth indirect impacts, the GEC shall evaluate the causation connecting a transportation project to future land use changes and the impacts associated with those land use changes. The TxDOT *Scope Development Tool* and *Induced Growth Indirect Impacts Decision Tree* shall be used to aid in

assessing potential indirect impacts. The induced growth indirect impacts analysis would follow a six-step methodology which includes defining or identifying: 1) the methodology, 2) the area of influence (AOI) and study timeframe, 3) areas subject to induced growth in the AOI, 4) if growth is likely to occur in the induced growth areas, 5) resources subject to induced growth impacts, and 6) mitigation (if applicable). This approach would be applied to the preferred alternative.

For encroachment alteration indirect impacts, the GEC shall assess all resources which would be evaluated for direct impacts. Examples of potential encroachment alteration impacts may include the anticipated future impacts after construction of the preferred alternative to the following considerations: changes in travel patterns, habitat fragmentation, neighborhood stability, access to specific goods or services, etc.

**Deliverables:**

- Sections included in the EA

**B) Cumulative Impacts Analysis**

For cumulative impacts, the GEC shall conduct a five-step process for considering the cumulative effects on a project using the TxDOT *Cumulative Impacts Decision Tree* and *Cumulative Impacts Analysis Guidelines*. The five steps include: 1) resource-related study area/ROW, conditions, and trends, 2) direct and indirect effects on each resource from the proposed project, 3) other actions (past, present and reasonably foreseeable) and their effect on each resource, 4) the overall effects of the proposed project combined with other actions, and 5) mitigation of cumulative effects. The cumulative impacts analysis would be conducted for the recommended preferred alternative.

**Deliverables:**

- Sections included in the EA

**C) Other Impact Considerations**

Additional impacts shall be assessed as appropriate to the proposed project. Such impacts may include long-term impacts, short-term impacts, etc.

**Deliverables:**

- Sections included in the EA

**Subtask 120.02.17 – Other Environmental Resources**

In addition to the subtasks previously mentioned, the GEC shall evaluate the following items in the EA as needed: pedestrian and bicycle facilities, Section 4(f)/6(f) resources, beneficial landscape practices and invasive species, visual and aesthetic qualities, utilities, construction impacts, EPIC sheets, and a summary of project-related agency coordination (e.g., FEMA, NMFS, NRCS, USACE, USCG, USFWS, RRC, TCEQ, THC, TPWD, etc.). GEC will draft these sections for inclusion within the EA document.

The GEC shall, in accordance with 23 CFR 771.135 (49 USC 303) and TxDOT guidance on Section 4(f) evaluations, identify properties within the study area that are protected by Section 4(f) of the US Department of Transportation Act of 1966. Such Section 4(f) properties include parkland, recreational areas, wildlife refuges, and historic properties. The GEC shall evaluate Section 4(f) properties, complete a Section 4(f) analysis (if required) and TxDOT Section 4(f) checklist, and identify potential impacts for the preferred alternative, as applicable. If required, the GEC shall additionally document the proposed project's compliance with Chapter 26 (Protection of Public Parks and Recreational Lands) of the Texas Parks and Wildlife Code. In this scope of services one (1) Section 4f evaluation is anticipated.

If required, the GEC shall, in accordance with TxDOT's *Environmental Handbook: Section 6(f) Land and Water Conservation Fund Act Compliance* (Version 2), identify recreational areas or similar areas within

the proposed study area that are protected by Section 6(f) of the Land and Water Conservation Act.

The GEC shall identify potential construction-phase impacts that would result from the proposed project and shall document such impacts in the relevant section(s) of the EA. Construction impacts associated with air quality and noise shall also be assessed. EPIC information shall be prepared for use in the construction phase of the proposed project. Best Management Practices (BMPs) for environmental considerations would be identified in the EPIC information.

**Deliverables:**

- Sections included in the EA

**Subtask 120.02.18 – Document Preparation and Comment/Response**

The information gathered during the environmental investigations and analyses shall be compiled into an EA document. For purposes of this scope, the GEC anticipates preparing four (4) versions of the EA. All environmental documents shall be electronically submitted to the AUTHORITY and TxDOT, as appropriate, though a reasonable number of hardcopies shall be accommodated upon request. Each submittal listed below shall include one electronic copy of the EA (in PDF format), and a completed comment/response matrix after TxDOT review. The GEC shall provide the following deliverables:

- Version 1 shall be submitted for concurrent review by the AUTHORITY and the TxDOT-Pharr District. Upon receipt of comments from the AUTHORITY and TxDOT-Pharr District, the GEC shall revise and resubmit the EA (Version 2).
- Version 2 shall be submitted concurrently to the AUTHORITY, TxDOT-Pharr District and TxDOT Environmental Affairs Division (ENV). Upon receipt of comments on Version 2, the GEC shall revise and resubmit the EA (Version 3).
- Version 3 shall be submitted concurrently to the AUTHORITY, TxDOT-Pharr District and TxDOT ENV (multiple departments) for TxDOT interdisciplinary reviews. Upon receipt of comments on Version 3, the GEC shall revise and resubmit the EA (Version 4).
- Version 4 shall be submitted to the AUTHORITY, TxDOT-Pharr District and TxDOT ENV (continuing with interdisciplinary reviews as needed). Version 4 is anticipated to be submitted to resource agencies for review and comment as appropriate as well as be available to the public for public comments (at the time of the public hearing). The GEC shall then revise and resubmit the EA to TxDOT, after the public hearing, for final review and approval.

**Subtask 120.02.19 – Preparation of Final NEPA Document**

If applicable, the GEC will support TxDOT in the preparation and processing of the FONSI for approval.

**EXCLUDED SERVICES AND ASSUMPTIONS**

The following environmental services are specifically excluded from this scope of work and, if required, maybe provided in a separate work authorization as Special Services:

- Additional field investigations beyond the tasks/subtasks identified in this scope of work.
- Archeological significance testing, data recovery and/or monitoring.
- Audio/visual equipment rental.
- Bicycle/pedestrian connectivity study.
- Biological Assessment.
- Construction emissions mitigation plan.
- Disposal or transportation of any hazardous waste/materials encountered during site investigations.
- Emergency Response Control Pollution Plan.
- Environmental permitting including permitting with the USACE and USCG.
- Historic American Buildings (HABS)/Historic American Engineering Record (HAER) documentation.

- Intensive Historic Survey
- Phase I (ASTM International E1527-21) or Phase II Environmental Site Assessment, interviews with property owners, or reviews of fire insurance maps, deed records, city directories, property tax files or other sources associated with the assessment of hazardous waste/materials.
- Permit applications, e.g., Section 9 and 10 of the Rivers and Harbors Act, Section 404 of the Clean Water Act—Individual Permit Applications or Nationwide Permit Pre-Construction Notifications, US Coast Guard Bridge Permit Application, plus any associated permit-related mitigation plans.
- Processing of more archeological sites than scoped.
- Historic resources surveys beyond those scoped.
- Human remains evaluation/coordination/removal.
- Incidental Take Permit activities.
- Mobile Source Air Toxics (MSAT) quantitative analysis.
- More than one (1) presence/absence survey for threatened/endangered species or critical habitat.
- NRHP nominations.
- Project newsletter or project website development.
- Sampling and the laboratory testing of waters (surface or groundwaters).
- Section 401 CWA State Water Quality Certification.
- Section 6(f) applications for TxDOT review and processing
- Section 6(f) property replacement activities.
- Security officer(s) for public meeting and/or public hearing.
- Species-specific Subject Matter Experts for individual critical habitat or species analyses.
- Storm Water permits, Storm Water Pollution Prevention Plans (SWP3), Texas Pollutant Discharge Elimination System (TPDES) coordination, and/or Construction General Permits (CGP).
- Traffic Noise Workshop.
- Toll alternative considerations.
- Waters of the US, wetland, and/or stream mitigation (land acquisition, mitigation design, maintenance, monitoring, etc.).
- Subconsultant exclusions: ecological/NEPA services, NRHP nominations, historic resources intensive-level investigations, HABS/HAER documentation, formal archeological survey, testing, or data recovery, human remains evaluation, coordination, or removal.

The following project assumptions are made to facilitate the scope of work:

- Assumes a total study area of 9,400 acres to be assessed in background studies.
- Assumes that a field survey will be conducted on the preferred alternative only. The preferred alternative corridor is assumed to be no longer than 21 miles (34 kilometers) and no wider than 350 feet (100 meters). If staging areas, laydown yards, temporary access roads, or other ancillary facilities are added to the project, additional investigations may be required.
- Assumes the study area is free of chemical, biological, and other contaminants to the best of the GEC's or AUTHORITY's knowledge.
- Assumes artifacts will be documented in the field but will not be collected.
- Assumes dual federal/state nexus and that a Texas Antiquities Permit will be required.
- Assumes mechanical testing will be required based on soils and topography.
- Assumes up to four (4) known sites will be revisited and up to six (6) new archeological sites will be recorded, for a maximum of 10 sites.
- Assumes standard new-location historic-resources indirect-effects area of potential effects of 300 feet maximum, and maximum of 50 historic resources documented.
- Assumes GEC and/or the AUTHORITY provides/negotiates ROE prior to fieldwork, such that survey can be completed in one trip each for archaeological and historic resources. If access is not available, a reasonable and good-faith effort will be made to document inaccessible parcels from accessible

parcels and/or public ROW.

- Assumes that the depths in Arroyo Colorado and one of its direct tributaries would require SCUBA for survey efforts. All other streams are assumed to be wadable.
- Assumes that updates to stream groupings would not result in increases to the required level of effort. If changes to stream groupings result in exceedance of the anticipated survey effort, the exceedances will be accommodated by a change order and additional fee.

## ROW & Utilities

**FUNCTION CODE 130 RIGHT OF WAY DATA**

**130.01 Data Collection**

The GEC will acquire Cameron County Appraisal District data to identify boundaries and property ownership information. This information will be utilized as background files for the geometric schematic and identifying adjacent property owners. The Appraisal data will be utilized for obtaining right of entry, providing notices from public involvement and to determine preliminary acquisition areas for right of way costs. These costs will be preliminary and be based on appraisal costs of property in the area.

**130.02. Subsurface Utility Engineering**

The GEC shall perform utility investigations subsurface and above ground in accordance with ASCE standard 38-22 defining Utility Quality Levels as follows:

a) Utility Quality Levels are defined in cumulative order (least to greatest) as follows:
   1) Quality Level D - Existing Records: Utilities are plotted from review of available existing records.
   2) Quality Level C - Surface Visible Feature Survey: Quality level "D" information from existing records is correlated with surveyed surface-visible features. Includes Quality Level D information. If there are variances in the designated work area of Level D then a new schematic or plan layout, if needed, is required showing the limits of the proposed project and limits of the work area required for this work authorization; including highway stations, limits within existing or proposed right of way, additional areas outside the proposed right of way, and distances or areas to be included down existing intersecting roadways.
   3) Quality Level B - Designate: Two-dimensional horizontal mapping. This information is obtained through the application and interpretation of appropriate non-destructive surface geophysical methods. Utility indications are referenced to established survey control. Incorporates quality levels C and D information to produce Quality Level B. If there are variances in the designated work area of Level D then a new schematic or plan layout, if needed, is required showing the limits of the proposed project and limits of the work area required for this work authorization; including highway stations, limits within existing or proposed right of way, additional areas outside the proposed right of way, and distances or areas to be included down existing intersecting roadways.
   4) Quality Level A - Locate (Test Hole): Three-dimensional mapping and other characterization data. This information is obtained through exposing utility facilities through test holes and measuring and recording (to appropriate survey control) utility/environmental data. Incorporates quality levels B, C and D information to produce Quality Level A.

b) Designate (Quality Level B), 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. Designate (Quality Level B) Services are inclusive of Quality levels C and D.

1) The Engineer shall:
   (a) As requested by the State/Authority compile "As Built" information from plans, plats and other location data as provided by the utility owners.
   (b) Coordinate with utility owner when utility owner's policy is to designate their own facilities at no cost for preliminary survey purposes. The Engineer will examine utility owner's work to ensure accuracy and completeness.
   (c) Designate, record, and mark the horizontal location of the existing utility facilities and their service laterals to existing buildings using non-destructive surface geophysical techniques. No storm sewer facilities are to be designated unless authorized by the State/Authority. A non-water base paint, utilizing the APWA color code scheme, must be used on all surface markings of underground utilities.
   (d) Correlate utility owner records with designating data and resolve discrepancies using professional judgment. A color-coded composite utility facility plan with utility owner names, quality levels, line sizes and subsurface utility locate (test hole) locations, if applicable will be prepared and delivered to the State/Authority. It is understood by both the Engineer and the State/Authority that the line sizes of designated utility facilities detailed on the deliverable are 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 designated deliverable only that states "lines sizes are from best available records". All above ground appurtenance locations must be included in the deliverable to the State/Authority. This information will be provided in the latest version of MicroStation or GeoPak used by the State/Authority. The electronic file will be delivered on C.D., as required by the State's District Office. A hard copy is required and must be signed, sealed, and dated by the Engineer. When requested by the State's District Office, the designated utility information must be overlaid on the State/Authority's design plans.
   (e) Determine and inform the State/Authority of the approximate utility depths at critical locations as determined by the State/Authority. This depth indication is understood by both the Engineer and the State/Authority to be approximate only and is not intended to be used preparing the right of way and construction plans.
   (f) When requested, provide a monthly summary of work completed and in process with adequate detail to verify compliance with agreed work schedule.
   (g) Close-out permits as required.
   (h) Clearly identify all utilities that were discovered from quality levels C and D investigation but cannot be depicted in quality level B standards. These utilities must have a unique line style and symbology in the designated (Quality Level B) deliverable.
   (i) Comply with all applicable State policy and procedural manuals.

c) Subsurface Utility Locate (Test Hole) Service (Quality Level A), (Estimated at 60 Test holes) Locate means to obtain precise horizontal and vertical position, material type, condition, size, and other data that may be obtainable about the utility facility and its surrounding environment through exposure by non-destructive excavation techniques that ensure the integrity of the utility facility. Subsurface Utility Locate (Test Hole) Services (Quality Level A) are inclusive of Quality Levels B, C, and D.
   1) The Engineer shall:
      (a) Review requested test hole locations and advise the State/Authority in the development of an appropriate locate (test hole) work plan relative to the existing utility infrastructure and proposed highway design elements.
      (b) Coordinate with utility owner inspectors as may be required by law or utility owner policy.
      (c) Neatly cut and remove existing pavement material, such that the cut not to exceed 0.10 square meters (1.076 square feet) unless unusual circumstances exist.

(d) Measure and record the following data on an appropriately formatted test hole data sheet that has been sealed and dated by the Engineer:
  (1) Elevation of top and/or bottom of utility tied to the datum of the furnished plan.
  (2) Identify a minimum of two benchmarks utilized. Elevations shall 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(s).
  (7) Utility facility condition.
  (8) Pavement thickness and type.
  (9) Coating/Wrapping information and condition.
  (10) Unusual circumstances or field conditions.

(e) Excavate test holes in such a manner as to prevent any damage to wrappings, coatings, cathodic protection or other protective coverings and features. Water excavation can only be utilized with written approval from the appropriate State District Office.

(f) Be responsible for any damage to the utility during the locating process. In the event of damage, the Engineer shall stop work, notify the appropriate utility facility owner, the State and appropriate regulatory agencies. The regulatory agencies include but are not limited to the Railroad Commission of Texas and the Texas Commission on Environmental Quality. The Engineer will 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.

(g) Back fill all excavations with appropriate material, compact backfill by mechanical means, and restore pavement and surface material. The Engineer shall be responsible for the integrity of the backfill and surface restoration for a period of three years. Install a marker ribbon throughout the backfill.

(h) Furnish and install a permanent above ground marker (as specified by the State's District Office), directly above center line of the utility facility.

(i) 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/Authority.

(j) Plot utility location position information to scale and provide a comprehensive utility plan sign and sealed by the responsible Engineer. This information will be provided in the latest version of MicroStation or GeoPak format used by the State/Authority. The electronic file will be delivered on C.D. When requested by the State/Authority, the Locate information must be overlaid on the State/Authority's design plans.

(k) Return plans, profiles, and test hole data sheets to the State/Authority. If requested, conduct a review of the findings with the State/Authority.

(l) Close-out permits as required.

**130.03 Utility Coordination**

The GEC will prepare a preliminary conflict matrix identifying utilities that can be readily picked up in the field (See Design Surveys). The GEC will initiate coordination with utilities and prepare electronic coordination binders for each utility that is identified and is listed as a potential conflict.

**130.04 ROW Cost Estimates**

The GEC shall provide ROW cost estimates based on the amount of takings identified for the alternatives and preferred alternative with respect to the appraisal data.

**130.05 Utility Cost Estimates**

Based on the utility coordination stated above the GEC shall prepare preliminary relocation costs for the applicable utilities identified in surface and subsurface field investigations.

**PROJECT ADMINISTRATION AND COORDINATION**

**145.01 General Administration**

The GEC will perform project administrative and coordination duties, including contract administration, project management, meeting minutes of all meetings and telephone conversations and other related administrative tasks (e.g., direct costs) associated with the project, including:

A) Subcontracting – Prepare, coordinate, execute and administer work authorizations with sub-consultants.

B) Progress Reports and Invoices – Prepare monthly invoices and progress reports for the work tasks, together with evidence of work accomplished during the time period since the previous report. The monthly progress reports will include: Activities completed, initiated or ongoing during the reporting period; Activities planned for the coming period; Problems encountered and actions to remedy them; Overall status, including a tabulation of percentage complete by task; Updated project schedule; Minutes of study meetings and copies of monthly correspondence.

C) Record Keeping and File Management – Maintain all records and files related to the project throughout the duration of the services.

D) Correspondence - Prepare written materials, letters, survey forms etc. used to solicit information or collect data for the project and submit them to the AUTHORITY for review and approval prior to its use or distribution. Copies of outgoing correspondence and incoming correspondence will be provided to the AUTHORITY on a continuing, at least monthly, basis.

E) Schedule - Prepare a detailed, graphic schedule linking Work Authorization tasks, subtasks, critical dates, milestones, deliverables, and AUTHORITY review requirements. The project schedule will be in a format which depicts the order and inter-dependence of the various tasks, subtasks, milestones, and deliverables for each of the tasks identified therein. Progress will be reviewed periodically for conformance to Exhibit B, Work Schedule; and should these reviews indicate a substantial change in progress, the schedule will then be revised accordingly.

**COMPUTER GRAPHICS FILES FOR DOCUMENT AND INFORMATION EXCHANGE**

The purpose of this Special Provision is to define the format for the exchange of electronic/magnetic data between the AUTHORITY and non-departmental resources. Because the AUTHORITY has a significant investment in its existing computer equipment, software, data/databases and personnel training, any and all computer-generated data submitted to the AUTHORITY must be compatible with the local District office computer system. Due to the variety of software existing among AUTHORITY offices and to ensure usability of data exchanged between the AUTHORITY and non-departmental resources, the AUTHORITY will exchange media of the following data formats:

| | |
|---|---|
| Graphics: ..... | Micro Station PC (DOS) 4.0 or higher<br>Micro Station J (Windows NT)<br>GEOPAK 2000<br>Computer Aided Civil Engineering (CAiCE)<br>Survey Data Management System<br>(SDMS) |
| Word Processing: ..... | Microsoft Word |
| Database: ..... | Microsoft Access/ Microsoft Editor |
| Spreadsheets:..... | Microsoft Excel |
| Archiving Software:..... | PKZIP |

Data provided to the AUTHORITY will be furnished on compact disk (CD) compatible with the AUTHORITY's computer system and as approved by the AUTHORITY.

Each CD submitted will include a MicroSoft Word document titled index.doc which will provide an index of the directory structure, name of files within directories, and a concise description of each file. Directories will be used to separate files according to subject: schematic, hydraulics, survey information, etc.

Variations from this software applications, or other requirements listed above may be allowed if requested in writing by the GEC and approved by the AUTHORITY. Because data stored on electronic media can deteriorate or be modified undetected,

GEC will not be held liable for the completeness or accuracy of the electronic data after receipt by AUTHORITY. AUTHORITY's reliance on the drawings, files, or other information and data stored on the media is limited to the printed copies (also known as "hard copies") that are signed or sealed by GEC. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern. The following Standard Main Directory Structure Table will be used to archive all project files pursuant to this project:

Standard Main Directory Structure:

| Types of Data | |
|---|---|
| CaiCE | All CAiCE files requested from surveyor. |
| Construction | Construction and field change documentation except for .Dgn files. |
| Contracts | All design, schematic and survey contract documentation, scope of work, man-hour estimate, etc. |
| Design_Files | All .Dgn files – Mapping, Sheet Files, Master Design Files, design cross sections, etc. |
| Environmental Docs | Environmental documentation can include but is not limited to Categorical Exclusion (CE), Environmental Assessment (EA), Environmental Impact Statement (EIS), Traffic Noise Analysis and Water Pollution Abatement Plans. |
| Estimate | All estimate files and supporting documentation. |
| Excel Spreadsheets | Miscellaneous Excel Spreadsheets created for project development. |
| GEOPAK | Input and output files, job files, tin files |
| Hydraulic Programs | Input and output files for other hydraulic programs other than GEOPAK Drainage (i.e., Hec-Ras, Thysys, Winstorm, etc.). |
| Other Engineering Applications | Any other pertinent Engineering application data input, output, etc. (i.e., Wincore). |
| Photographs | All photograph files pertaining to project. |
| PowerPoint | All PowerPoint Presentation created for meetings and/or information. |
| ROW | ROW maps and parcel sketches as furnished by surveyor, including any correspondence. |

Standards All Standard Sheets used for the project.

Traffic SignCAD files and pertinent design files TransCAD for Modeling Files
(No Correspondence or *.Dgn files)

Word Documents - All documentation and other project correspondence not mentioned above and subdivided to proper directories.

**REFERENCES**


1. 2024 Standard Specifications for Construction of Highways, Streets, and Bridges - TxDOT.
2. Special Provisions and Special Specifications - TxDOT.
3. P.S. & E. Preparation Manual - TxDOT.
4. Bridges and Structures Operation and Planning Manual - TxDOT.
5. Bridges and Structures Hydraulic Manual - TxDOT.
6. Bridges and Structures Design Examples - TxDOT.
7. Bridges and Structures Bridge Design Guide - TxDOT.
8. Bridges and Structures Detail Manual - TxDOT.
9. Bridges and Structures Foundation Exploration and Design Manual - TxDOT.
10. Standard Specifications for Highway Bridges - AASHTO.
11. Highway Design Operations and Procedures Manual - TxDOT.
12. Highway Design Operations and Procedures Manual Part IIB - Environmental and Public Involvement. Procedures During Project -Specific Planning and Development - TxDOT.
13. A Policy on Geometric Design of Highways and Streets ("The Green Book") AASHTO.
14. Highway Capacity Manual Special Report 209 - Texas Research Board (TRB).
15. Technical Advisory T6640.8A - FHWA.
16. Noise Guidelines - TxDOT.
17. Air Quality Guidelines - TxDOT.
18. Flexible Pavement Design Manual - TxDOT.
19. Guide for the Design of Pavement Structures, 1986 - AASHTO.
20. Texas Manual on Uniform Traffic Control Devices - TxDOT.
21. Standard Highway Sign Designs for Texas - TxDOT.
22. Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals - AASHTO.
23. Utility Accommodation Policy - TxDOT.
24. Utility Manual - TxDOT.
25. ROW, ROW Manual - Book I - TxDOT.
26. ROW, ROW Manual - Book II TxDOT.
27. Accessible Rights of Way (sidewalks, street crossings, other pedestrian facilities) Design Guide-Nov. 1999
28. Code of Federal Regulations, Title 23 - "Highway" - Federal Register.
29. Administrative Order No. 5-89 Signing, Sealing and Dating of Engineering Documents - TxDOT.
30. Administrative Circular No. 26-91 - Minimum signing, Sealing, and Dating Procedures for Department Engineering Documents - TxDOT.
31. Administrative Circular No. 25-84 - Soils Information for High Mast Lighting, Overhead Sign Bridges, and Retaining Walls - TxDOT.
32. Administrative Circular No. 33-87 -Preliminary Retaining Wall Layouts to be submitted to Division of Bridges and Structures - TxDOT.
33. Administrative Circular No. 25-92 - Division of Bridges and Structures to be responsible for all geotechnical Engineering support for foundations, retaining walls, and embankment stability and settlement - TxDOT.
34. Texas Department of Licensing and Regulations Manual.
35. Texas Department of Transportation. Bicycle Accommodation Design Guidance. April 2, 2021.
36. Cumulative Impacts Analysis Guidelines. January 2019.
37. Environmental Handbook: Preparing an Environmental Assessment. November 2024.
38. Environmental Handbook: Endangered Species Act. November 2020.
39. Environmental Handbook: Section 6(f) Land and Water Conservation Fund Act Compliance. March 2022.
40. Environmental Handbook for Air Quality. July 2021.

41. Environmental Handbook for Community Impacts, Environmental Justice, Limited English Proficiency and Title VI. September 2024.
42. Environmental Handbook for Hazardous Materials. July 2014.
43. Environmental Handbook for Historic Properties. April 2014.
44. Environmental Handbook for Public Involvement. May 2022.
45. Environmental Handbook for Section 4(f), US Department of Transportation Act. May 2015.
46. Environmental Handbook for Water Resources. August 2023.
47. Guidance: Historical Studies Review Procedures. June 2022.
48. Guidance: Cumulative Impacts Analysis Guidelines. January 2019.
49. Guidance: Induced Growth Analysis. December 2023.
50. Highway Traffic Noise: Analysis and Abatement Guidance. December 2019.
51. Template: Water Features Delineation Report. October 2024.
52. Template: Documentation of Public Meeting. July 2019.

NOTES: (1) All Design will be in accordance with the above references, except where variances are permitted in writing by the AUTHORITY**.**
(2) The GEC is responsible for purchasing all references required for the project.

# EXHIBIT C
# Schedule of Work

The GEC will diligently pursue the completion of the Project as defined by the major milestones and deliverable due dates listed below.

The GEC will inform the Authority (in reasonable advance of the delay) should the GEC encounter delays that would prevent the performance of all work in accordance with the established schedule(s) of work.

NOTICE TO PROCEED -- Upon Execution **Estimating an NTP of:** 12/01/24

| Project Deliverable | Estimated Delivery Date in Days from NTP | Estimated Delivery Date |
|---|---|---|
| WPD Forms (if needed) | 40 | 01/10/25 |
| Project Typical Section | 45 | 01/15/25 |
| Purpose and Need Statements | 45 | 01/15/25 |
| Project Database/Mailing List | 50 | 01/20/25 |
| Traffic Projections | 60 | 01/30/25 |
| Alternatives Analysis | 60 | 01/30/25 |
| Public Involvement Plan | 80 | 02/19/25 |
| Community Impact Assessment Form | 85 | 05/01/24 |
| Aerial Mapping/ Survey | 90 | 03/01/25 |
| Hazmat ISA Form | 110 | 03/21/25 |
| Archeological Background Study | 120 | 03/31/25 |
| Historical PCR | 120 | 03/31/25 |
| Public Meeting Summary Report #1 | 135 | 04/15/25 |
| Species Analysis Form and Spreadsheet | 150 | 04/30/25 |
| Preliminary Schematic Design 30% (Electronic + Hard Copy) | 150 | 04/30/25 |
| Subsurface utility Engineering Report | 150 | 04/30/25 |
| Waters of the U.S Delineation Report | 180 | 05/30/25 |
| Preliminary Schematic Design 60% (Electronic + Hard Copy) | 180 | 05/30/25 |
| ROW Cost Estimates | 180 | 05/30/25 |
| Utility Cost Estimates | 180 | 05/30/25 |
| Biological Assessment (if needed) | 230 | 07/19/25 |
| Public Meeting Summary Report - Pop-up Meetings | 350 | 11/16/25 |
| Preliminary Schematic Design 90% (Electronic + Hard Copy) | 240 | 07/29/25 |
| Project Cost Estimates at Preliminary Design | 240 | 07/29/25 |
| Traffic Noise Technical Report | 260 | 08/18/25 |
| Archeological Report | 260 | 08/18/25 |
| Mussel Survey | 260 | 08/18/25 |
| Preliminary EA Documentation | 270 | 08/28/25 |
| Public Meeting Summary Report #2 | 287 | 09/14/25 |
| Preliminary Schematic Design 100% (Electronic + Hard Copy) | 320 | 10/17/25 |
| Engineering Summary Report (Electronic + Hard Copy) | 360 | 11/26/25 |
| Drainage & Hydraulic Report ( Electronic + Hard Copy) | 360 | 11/26/25 |
| Public Hearing Summary Report | 400 | 01/05/26 |
| Final EA Documention | 460 | 03/06/26 |

PROJECT: Outer Parkway APD
CLIENT: CCRMA
CONTRACT: General Engineering Consulting Contract
CSJ: 0921-06-283
COUNTY: Cameron
RRP JOB NO.: TX2434 Work Authorization# 2

EXHIBIT D -- FEE ESTIMATE

Nov. 20, 2024

| FUNCTION CODE | DESCRIPTION from Attachment B | FIRM | SERVICE | MAN-HOURS | | | | | | | | | | | | | | ESTIMATED FEE | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Technical Advisor | Project Manager | Env Planner Senior | Env Scientist IV | Env Scientist I/II | Engineer (Senior) | Engineer (Project) | Engineer (Design) | Engineer in Training II | Engineer Technician | CADD operator - Senior | Utilities Coordinator | Administrative / Clerical | TOTAL HOURS | | |
| | **PRELIMINARY ENGINEERING** | | | | | | | | | | | | | | | | | | |
| 110 | **ROUTE AND DESIGN STUDIES** | | | | | | | | | | | | | | | | | | |
| | 110.01. Feasibility Study/Alternatives | RRP | BASIC | | 24 | | | | | 32 | 32 | 76 | | 100 | | | 264 | $34,574.32 | |
| | 110.02. Functional Classification Request | RRP | BASIC | | 8 | | | | 40 | | | 40 | | 80 | | | 168 | $24,906.40 | |
| | 110.03. Geometric Schematic Work | RRP | BASIC | | 24 | | | | 56 | 100 | 280 | 352 | | 432 | | | 1,244 | $157,146.68 | |
| | 110.04. Corridor and Route Analysis | RRP | BASIC | | 20 | | | | 96 | 110 | | 220 | | 220 | | | 666 | $92,819.90 | |
| | 110.05. Development of Typical Sections | RRP | BASIC | | 8 | | | | 16 | 8 | 8 | 40 | | 40 | | | 120 | $16,958.40 | |
| | 110.06. Geotechnical Studies | B2Z | SPECIAL | | | | | | | | | | | | | | | $172,292.60 | |
| | 110.06. Geotechnical Studies (Sub Coordination | RRP | BASIC | | 4 | | | | 8 | 20 | | 16 | | 8 | | | 56 | $8,663.48 | |
| | 110.06.01 Interchange Layout Design | RRP | BASIC | | 4 | | | | 80 | | 160 | | | 160 | | | | $59,758.00 | |
| | 110.06.02 Interchange Justification Report | RRP | BASIC | | 4 | 100 | 20 | 40 | | | 160 | | | 40 | | | | $48,078.20 | |
| | 110.07. Hydrologic / Hydraulic Studies | KCI | BASIC | | | | | | | | | | | | | | | $204,944.88 | |
| | 110.07.01 Preliminary Bridge Layout (Typical Bent Sizing) | RRP | BASIC | | 16 | | | | 160 | | 120 | | | 240 | | | | $86,024.40 | |
| | 110.08.Traffic Studies | CDM | SPECIAL | | | | | | | | | | | | | | | $114,265.36 | |
| | 110.08.Traffic Studies (Sub Coordination) | RRP | BASIC | | 4 | | | | | 2 | | 16 | | | | 16 | 38 | $4,257.78 | |
| | 110.09. Project Cost Estimates | RRP | BASIC | | 24 | | | | 36 | 72 | | 120 | | | | | 252 | $39,000.24 | |
| | 110.10. Engineering Summary Report | RRP | BASIC | | 16 | | | | 12 | 16 | 40 | 60 | | | | 20 | 164 | $22,939.92 | |
| | 110.11. Quality Assurance / Quality Control | RRP | BASIC | 210 | | | | | | | | | | | | | 210 | $64,680.00 | |
| | 110.12.LGPP Checklist for Preliminary Engineering | RRP | BASIC | | 16 | | | | | 32 | | 64 | | | | 18 | 130 | $17,297.28 | |
| | **Sub Total (110 - ROUTE AND DESIGN STUDIES)** | | | **210** | **172** | **100** | **20** | **40** | **504** | **392** | **800** | **1,004** | **0** | **1,320** | **0** | **54** | **3,312** | | **$1,168,607.84** |
| 150 | **FIELD SURVEYING AND PHOTOGRAMMETRY** | | | | | | | | | | | | | | | | | | |
| | 150.01. Aerial Photogrammetry | RAM | SPECIAL | | | | | | | | | | | | | | | $199,680.00 | |
| | 150.02. Field Surveying and Control | RODS | SPECIAL | | | | | | | | | | | | | | | $227,061.24 | |
| | 150.01 & 02. Subconsultant Coordination | RRP | BASIC | | 24 | | | | 72 | | | | | 72 | | | 168 | $32,111.04 | |
| | **Sub Total (150 - FIELD SURVEYING AND PHOTOGRAMMETRY )** | | | **0** | **24** | **0** | **0** | **0** | **72** | **0** | **0** | **0** | **0** | **72** | **0** | **0** | **168** | | **$458,852.28** |
| | **ENVIRONMENTAL** | | | | | | | | | | | | | | | | | | |
| 120 | **SOCIAL & ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT General FC 120 Categories (Task / Deliverables)** | | | | | | | | | | | | | | | | | | |
| **120.01** | **Public Involvement** | RRP | BASIC | | | | | | | | | | | | | | | | |
| **120.01.01** | **Mailing List** | RRP | BASIC | | | 4 | 40 | | | | | | | 8 | | 4 | 56 | $7,194.92 | |
| | **Right-of-Entry Coordination** | RRP | BASIC | | | 10 | 40 | | | | | 120 | | 10 | | 4 | 184 | $20,894.78 | |
| **120.01.02** | **Public Involvement Plan** | RRP | BASIC | | | 4 | 32 | 10 | | | | | | | | | 46 | $5,711.52 | |
| **120.01.03** | Public Meetings | RRP | BASIC | | | | | | | | | | | | | | | $0.00 | |
| | Virtual Public Meeting with In-Person Option, Public Meeting 1 | RRP | BASIC | | 16 | 20 | 100 | 10 | 24 | | | | | 24 | | 12 | 206 | $31,149.92 | |
| | Virtual Public Meeting with In-Person Option, Public Meeting 2 | RRP | BASIC | | | | | | | | | | | | | | 0 | $0.00 | |
| | Pop-up Community Engagement Events | RRP | BASIC | | | | | | | | | | | | | | 0 | $0.00 | |
| | Notice Affording an Opportunity for a Public Hearing (NAOPH) and Other Notifications | RRP | BASIC | | | 4 | 20 | | | | | | | 4 | | 20 | 48 | $5,233.56 | |
| **120.01.04** | Public Hearing | RRP | BASIC | | | | | | | | | | | | | | 0 | $0.00 | |
| **120.02** | Environmental Documentation | RRP | BASIC | | | | | | | | | | | | | | | $0.00 | |
| **120.02.01** | Development of Study Area and Constraints Mapping | RRP | BASIC | | | 80 | 120 | | | | | | | 60 | | | 260 | $34,989.20 | |
| **120.02.01** | Development of Study Area and Constraints Mapping (Support) | P-C | BASIC | | | | | | | | | | | | | | | $8,110.92 | |
| **120.02.02** | Purpose and Need | RRP | BASIC | | 2 | 4 | 8 | 4 | | | | | | | | | 18 | $2,547.76 | |
| **120.02.03** | Alternative Development and Analysis | RRP | BASIC | | 4 | 15 | 80 | | | | | | | 80 | | | 179 | $22,900.75 | |
| **120.02.04** | Project Scoping Coordination | RRP | BASIC | | 4 | 4 | 20 | | | | | | | 8 | | | 36 | $5,282.84 | |
| **120.02.05** | Land Use | RRP | BASIC | | | 4 | 12 | 5 | | | | | | 8 | | | 29 | $3,486.58 | |
| **120.02.06** | Farmland, Soils, and Geology | RRP | BASIC | | | 4 | 12 | 5 | | | | | | 8 | | | 29 | $3,486.58 | |
| **120.02.07** | Socioeconomic and Environmental Justice | RRP | BASIC | | | 10 | 120 | 20 | | | | | | 40 | | | 190 | $23,654.50 | |
| **120.02.08** | Water Resources | RRP | BASIC | | | 20 | 320 | 30 | | | | | | 80 | | | 450 | $57,386.80 | |
| **120.02.09** | Archeological Resources | P-C | BASIC | | | | | | | | | | | | | | | $246,762.12 | |
| **120.02.10** | Historic Built Environment Resources | KCI | BASIC | | | | | | | | | | | | | | | $52,088.96 | |
| | Cultural Resources Project Management | P-C | SPECIAL | | | | | | | | | | | | | | | $10,613.04 | |
| **120.02.11** | Vegetation and Habitat | RRP | BASIC | | | 4 | 80 | 15 | | | | | | 8 | | | 107 | $13,465.74 | |
| **120.02.12** | Threatened and Endangered Species | RRP | BASIC | | | 4 | 80 | 15 | | | | | | 16 | | | 115 | $14,333.10 | |
| | Mussel Survey | LHAWK | SPECIAL | | | | | | | | | | | | | | | $44,116.00 | |
| **120.02.13** | Traffic Noise | RRP | BASIC | | | 40 | 400 | 100 | | | | | | | | | 540 | $67,956.80 | |
| **120.02.14** | Air Quality | RRP | BASIC | | | | 15 | 5 | | | | | | | | | 20 | $2,414.70 | |
| **120.02.15** | Hazardous Materials | RRP | BASIC | | | 4 | 180 | 20 | | | | | | 20 | | | 224 | $28,700.68 | |
| **120.02.16** | **Indirect and Cumulative Impacts** | | | | | | | | | | | | | | | | | | |
| | Indirect Impacts Analysis | RRP | BASIC | | | 4 | 100 | | | | | | | 10 | | | 114 | $15,247.28 | |
| | Cumulative Impacts Analysis | RRP | BASIC | | | 4 | 100 | | | | | | | 10 | | | 114 | $15,247.28 | |
| **120.02.17** | Other Environmental Resources | RRP | BASIC | | | 8 | 40 | | | | | | | 10 | | 20 | 78 | $9,205.56 | |
| **120.02.17** | Other Environmental Resources | P-C | SPECIAL | | | | | | | | | | | | | | | $13,351.48 | |
| **120.02.18** | Document Preparation and Comment Response | RRP | BASIC | | | 40 | 240 | 60 | | | | | | 20 | | 20 | 380 | $46,865.20 | |
| **120.02.19** | Preparation of Final NEPA Document | RRP | BASIC | | 24 | 60 | 120 | 30 | | | | | | | | 20 | 254 | $35,762.40 | |
| | **Sub Total (120 - SOCIAL & ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT)** | | | **0** | **50** | **351** | **2,279** | **329** | **24** | **0** | **0** | **120** | **0** | **424** | **0** | **100** | **3,677** | | **$848,160.97** |
| | **ROW & UTILITIES** | | | | | | | | | | | | | | | | | | |
| 130 | **ROW DATA** | | | | | | | | | | | | | | | | | | |
| | 130.01. Data Collection - Property owners on Schematic | RRP | BASIC | | 2 | | | | | | 80 | 120 | | 240 | | | 442 | $49,936.60 | |
| | 130.02. Subsurface Utility Engineering | RODSUE | SPECIAL | | | | | | | | | | | | | | | $350,648.39 | |
| | 130.02. Subconsultant Coordination | RRP | SPECIAL | | 16 | | | | 10 | | 24 | | | 24 | | | 74 | $12,682.80 | |
| | 130.03. Utility Coordination | RRP | SPECIAL | | 8 | | | | | | 20 | 30 | | 30 | 240 | 40 | 368 | $55,634.80 | |
| | 130.04.ROW Cost Estimates | RRP | SPECIAL | | 4 | | | | | | 20 | 20 | | 20 | | | 64 | $8,057.40 | |
| | 130.04.ROW Cost Estimates | ARES | SPECIAL | | | | | | | | | | | | | | | $27,812.96 | |
| | 130.05. Utility Cost Estimates | RRP | SPECIAL | | 4 | | | | | | 40 | 40 | | 60 | 120 | | 264 | $37,886.80 | |
| | **Sub Total (130 - ROW DATA)** | | | **0** | **34** | **0** | **0** | **0** | **10** | **0** | **184** | **210** | **0** | **374** | **360** | **40** | **1,212** | | **$542,659.75** |

PROJECT: Outer Parkway APD
CLIENT: CCRMA
CONTRACT: General Engineering Consulting Contract
CSJ: 0921-06-283
COUNTY: Cameron
RRP JOB NO.: TX2434 Work Authorization# 2

EXHIBIT D -- FEE ESTIMATE

Nov. 20, 2024

| FUNCTION CODE | DESCRIPTION from Attachment B | FIRM | SERVICE | MAN-HOURS | | | | | | | | | | | | | | ESTIMATED FEE | TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Technical Advisor | Project Manager | Env Planner Senior | Env Scientist IV | Env Scientist I/II | Engineer (Senior) | Engineer (Project) | Engineer (Design) | Engineer in Training II | Engineer Technician | CADD operator - Senior | Utilities Coordinator | Administrative / Clerical | TOTAL HOURS | | |
| 145 | **GENERAL COORDINATION** | | | | | | | | | | | | | | | | | | |
| | Project Manager (Proj Coord)(2 HRS/WK) | RRP | BASIC | | 192 | | | | | | | | | | | | 192 | $52,512.00 | |
| | Progress Reports and Invoicing | RRP | BASIC | | 22 | 11 | | | 11 | 11 | | | | | | 22 | 77 | $13,714.58 | |
| | Progress Meetings Monthly | RRP | BASIC | | 22 | 22 | 22 | | 22 | | 22 | | | | | | 110 | $20,750.84 | |
| | Internal Meetings - Bi Weekly | RRP | BASIC | | 46 | 46 | | | 46 | 46 | 46 | | | | | | 230 | $44,181.62 | |
| | Project Funding | ARES | SPECIAL | | | | | | | | | | | | | | | $44,000.00 | |
| | Project Secretary /CLERICAL (2 hrs/week) | RRP | BASIC | | | | | | | | | | | | | 192 | 192 | $14,192.64 | |
| | | | | **0** | **282** | **79** | **22** | **0** | **79** | **57** | **68** | **0** | **0** | **0** | **0** | **214** | **801** | | **$189,351.68** |
| | **Total Hours** | | | **210** | **562** | **530** | **2,321** | **369** | **689** | **449** | **1,052** | **1,334** | **0** | **2,190** | **360** | **408** | **9,170** | | **$3,207,632.52** |
| | **LABOR TOTALS** | | | | | | | | | | | | | | | | | | **$3,207,632.52** |
| | Total Hours | MULTIPLIER | | 210 | 562 | 530 | 2,321 | 369 | 689 | 449 | 1,052 | 1,334 | 0 | 2,190 | 360 | 408 | 9,170 | $1,491,884.57 | |
| | | | | 2.3% | 6.1% | 5.8% | 25.3% | 4.0% | 7.5% | 4.9% | 11.5% | 14.5% | 0.0% | 23.9% | 3.9% | 4.4% | | | |
| | CONTRACT RATES: ($/MAN-HOUR) | 2.464 | | 308.00 | 273.50 | 152.77 | 135.52 | 76.38 | 246.40 | 152.77 | 135.03 | 104.72 | 78.85 | 108.42 | 172.48 | 73.92 | | | |
| | BASE RATES: ($/MAN-HOUR ) | | | 125.00 | 111.00 | 62.00 | 55.00 | 31.00 | 100.00 | 62.00 | 54.80 | 42.50 | 32.00 | 44.00 | 70.00 | 30.00 | | | |
| 160 | **NON LABOR** | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | In-Person Project Meetings (Engineering) | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Mileage | RRP (nl) | SPECIAL | | | | Mileage Rate = | | 0.67 | Mileage = | 120 | | Trips = | 24 | | | | $1,929.60 | |
| | Field Investigations (Engineering) | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Mileage | RRP (nl) | SPECIAL | | | | Mileage Rate = | | 0.67 | Mileage = | 120 | | Trips = | 10 | | | | $804.00 | |
| | In-Person Project & Agency Coordination Meetings | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Lodging including taxes | RRP (nl) | SPECIAL | | Persons = | 2 | Nights = | 1 | | Cost per Night = | | $155.00 | Trips = | 10 | | | | $3,100.00 | |
| | Travel - Meals | RRP (nl) | SPECIAL | | Persons = | 2 | Days = | 2 | | Cost per Day = | | $68.00 | | | | | | $2,720.00 | |
| | Travel - Rental Vehicle | RRP (nl) | SPECIAL | | | | Days = | 2 | | Rent/Gas per Day = | | $190.00 | | | | | | $3,800.00 | |
| | Coordination Meetings by Agency | RRP (nl) | SPECIAL | | USFWS = | 1 | USACE = | 1 | USCG = | 1 | Client = | 5 | MAPO = | 2 | | | | | |
| | Field Investigations | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Lodging including taxes | RRP (nl) | SPECIAL | | Persons = | 2 | Nights = | 4 | | Cost per Night = | | $155.00 | Trips = | 9 | | | | $11,160.00 | |
| | Travel - Meals | RRP (nl) | SPECIAL | | Persons = | 2 | Days = | 5 | | Cost per Day = | | $68.00 | | | | | | $6,120.00 | |
| | Travel - Rental Vehicle | RRP (nl) | SPECIAL | | | | Days = | 5 | | Rent/Gas per Day = | | $190.00 | | | | | | $8,550.00 | |
| | Field Investigations by Type | RRP (nl) | SPECIAL | | Wetlands | 3 | HazMat | 1 | | Social/Economic | 1 | | | | | | | | |
| | Field Investigations by Type | RRP (nl) | SPECIAL | | Noise | 1 | Biological | 2 | | USACE Verification | 1 | | | | | | | | |
| | Public Meeting #1 | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Lodging including taxes | RRP (nl) | SPECIAL | | Persons = | 3 | Nights = | 2 | | Cost per Night = | | $155.00 | Trips = | 1 | | | | $930.00 | |
| | Travel - Meals | RRP (nl) | SPECIAL | | Persons = | 3 | Days = | 3 | | Cost per Day = | | $68.00 | | | | | | $612.00 | |
| | Travel - Rental Vehicle | RRP (nl) | SPECIAL | | | | Days = | 3 | | Rent/Gas per Day = | | $190.00 | | | | | | $570.00 | |
| | Public Meeting #2 | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Lodging including taxes | RRP (nl) | SPECIAL | | Persons = | 3 | Nights = | 2 | | Cost per Night = | | $155.00 | Trips = | 1 | | | | $930.00 | |
| | Travel - Meals | RRP (nl) | SPECIAL | | Persons = | 3 | Days = | 3 | | Cost per Day = | | $68.00 | | | | | | $612.00 | |
| | Travel - Rental Vehicle | RRP (nl) | SPECIAL | | | | Days = | 3 | | Rent/Gas per Day = | | $190.00 | | | | | | $570.00 | |
| | Public Hearing | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | | |
| | Travel - Lodging including taxes | RRP (nl) | SPECIAL | | Persons = | 3 | Nights = | 2 | | Cost per Night = | | $155.00 | Trips = | 1 | | | | $930.00 | |
| | Travel - Meals | RRP (nl) | SPECIAL | | Persons = | 3 | Days = | 3 | | Cost per Day = | | $68.00 | | | | | | $612.00 | |
| | Travel - Rental Vehicle | RRP (nl) | SPECIAL | | | | Days = | 3 | | Rent/Gas per Day = | | $190.00 | | | | | | $570.00 | |
| | Poznecki ODE's See Sheet Tab | P-C (nl) | SPECIAL | | | | | | | | | | | | | | | $47,938.00 | |
| | CDM Smith ODE's See Sheet Tab | CDM (nl) | SPECIAL | | | | | | | | | | | | | | | $ 3,592.00 | |
| | KCI ODE's See Sheet Tab | KCI (nl) | SPECIAL | | | | | | | | | | | | | | | $3,904.00 | |
| | Court Reporter/Translation Services | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $4,500.00 | |
| | Field Supplies Noise Meter (1 Week, 3 Meters) | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $1,500.00 | |
| | Government Records Report | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $5,000.00 | |
| | Hardcopy Materials (copies, paper, printing, for public hearing) | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $1,500.00 | |
| | Public Meeting Exhibits - Mounting | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $5,000.00 | |
| | Postage | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $7,000.00 | |
| | Equipment for Field Investigations (stakes, pin flags, flagging, etc.) | RRP (nl) | SPECIAL | | | | | | | | | | | | | | | $3,000.00 | |
| | **Sub Total (F.C. 160)** | | | | | | | | | | | | | | | | | | **$127,453.60** |
| | **NON LABOR TOTAL** | | | | | | | | | | | | | | | | | **$127,453.60** | |
| | **BASIC SERVICE TOTAL** | | | | | | | | | | | | | | | | | **$ 1,889,529.65** | |
| | **SPECIAL SERVICE TOTAL** | | | | | | | | | | | | | | | | | **$ 1,318,102.87** | |
| | **PROJECT TOTAL** | | | | | | | | | | | | | | | | | | **$3,335,086.12** |

ARES SERVICES INCORPORATED

**EXHIBIT D**
**Cost Proposal**

| TASK DESCRIPTION | Project Management | Title Review & Clearing | ROW Negotiating Services | Admin | TOTAL LABOR COST |
|---|---|---|---|---|---|
| | | | | | |
| **ROADWAY DESIGN - FC 160 (130 - ROW Services)** | | | | | |
| **130.04 ROW ESTIMATES** | | | | | |
| ROW Estimates | 16 | 0 | 160 | 16 | |
| | | | | | |
| HOURS SUB-TOTALS | 16 | 0 | 160 | 16 | 192 |
| CONTRACT RATE PER HOUR | $174.94 | $150.30 | $150.30 | $60.37 | |
| TOTAL LABOR COSTS | $2,799.04 | $0.00 | $24,048.00 | $965.92 | $ 27,812.96 |
| % DISTRIBUTION OF STAFFING | 8.3% | 0.0% | 83.3% | 8.3% | |
| | | | | | |
| **SUB-TOTAL - FC 160 (150 - SURVEYING)** | | | | | **$ 27,812.96** |

| SUMMARY | |
|---|---|
| | |
| TOTAL COSTS FOR RAM | $ 27,812.96 |
| ON-SALARY (OTHER DIRECT EXPENSES) FOR RAM | $ - |
| **GRAND TOTAL** | **$ 27,812.96** |

**EXHIBIT D**
**Cost Proposal**

## Geotechnical Engineering, Report & Summary

**B2Z Engineering**

| | | *Outer Parkway Project*<br>*Client: RRP Consulting Engineers* | MANHOURS<br>Support Manager | Engineer (Project) | Engineer (Design) | Engineering Technician | Admin/Clerical | Total |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **TASK** | | | | | | | |
| | 1A | Management, Oversight, Invoicing etc. | 4 | | | | | 4 |
| | 2A | Coordination of Field Activites | 2 | | 4 | | | 6 |
| | 3A | Stake Borings/Utility Locates/Coord. - Eng. Tech | | | | 4 | | 4 |
| | 4A | Boring Log / Geo Data Creation | 2 | 4 | 24 | | 24 | 54 |
| | 1B | Deep Foundations - Found Capacity Curves | | 4 | 16 | | | 20 |
| | 2B | Ret. Wall and/or Slope Stablity Analysis | | 0 | 0 | | | 0 |
| | 3B | Flexible & Rigid Pavement Design | 10 | 68 | 136 | 24 | | 238 |
| | 1C | Geo Report | 4 | 6 | 36 | 4 | 4 | 54 |
| | 2C | Meetings/Coord. (Coord. Time w/ Client, CCRMA & TxDOT) | 4 | 2 | 2 | | 2 | 10 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | **Subtotal** | **26** | **84** | **218** | **32** | **30** | **390** |
| | | | | | | | | |
| **Labor Hours** | | | **26** | **84** | **218** | **32** | **30** | **390** |
| Contract Rate | | | $ 284.86 | $ 251.35 | $ 201.08 | $ 124.00 | $ 107.24 | |
| **Total Labor Costs** | | | **$ 7,406.36** | **$ 21,113.40** | **$ 43,835.44** | **$ 3,968.00** | **$ 3,217.20** | **$ 79,540.40** |

LINE ITEM EXPENSES

| | |
|---|---|
| Printing Reproduction (N/A - Electronic Submittal Only) | $ - |
| *B2Z Engineering (Sub-Total for Geo. Field & Lab Services) | $ 92,752.20 |
| ** - (Please see page 2, for detailed estimates of testing)* | |
| **Total Expenses** | **$ 92,752.20** |

**B2Z Total Cost** **$ 172,292.60**

B2Z ENGINEERING

# EXHIBIT D
## Geotechnical Field and Laboratory Services
## Outer Parkway Project
## Prepared for RRP Consulting Engineers

| | SERVICES | | UNITS | UNITS | UNIT COST | TOTAL COST |
|---|---|---|---|---|---|---|
| **I.** | **Project Management / Review** | | | | | |
| **II.** | **Utility Clearances / Boring Locates** | | | | | |
| | B. Mileage | | Mile | **140** | **$ 0.67** | **$ 93.80** |
| **III.** | **Field Exploration** | | | | | |
| A | Mobilization/Demobilization (Drill Rig) | | Mile | **1260** | **$ 6.00** | **$ 7,560.00** |
| B | Field Exploration | | | | | |
| | 1. Soil Boring/Rock Coring w TCP (< 60 ft.) | | LF | **300** | **$ 49.00** | **$ 14,700.00** |
| | 1A. Soil Boring/Rock Coring w TCP (> 60 ft.) | | LF | **300** | **$ 58.00** | **$ 17,400.00** |
| | 2. Borehole Grouting - Bentonite Chips | | LF | **600** | **$ 12.00** | **$ 7,200.00** |
| | 3. Supp. Vehicle-Trailer, Tools Water Supply | | Mile | **1260** | **$ 0.67** | **$ 844.20** |
| | 4. Vehicle Charge | | Mile | **1260** | **$ 0.67** | **$ 844.20** |
| | 5. Traffic Control Services | | Day | **2** | **$ 5,150.00** | **$ 10,300.00** |
| C | Miscellaneous Field Services | | | | | |
| **IV.** | **Engineering Data Analysis / Report** | | | | | |
| | 1. Moisture Content (Tex-103-E) | | Ea. | **120** | **$ 20.00** | **$ 2,400.00** |
| | 2a. Liquid Limit (Tex-104-E) | | Ea. | **90** | **$ 60.00** | **$ 5,400.00** |
| | 2b. Plastic Limit (Tex-105-E) | | Ea. | **90** | **$ 60.00** | **$ 5,400.00** |
| | 2c. Plasticity Index (Tex-106-E) | | Ea. | **90** | **$ 62.00** | **$ 5,580.00** |
| | 3. Sieve Analysis (w/ Hyd) (Tex-110-E) | | Ea. | **4** | **$ 125.00** | **$ 500.00** |
| | 4. -200 Determination (Tex-111-E) | | Ea. | **90** | **$ 80.00** | **$ 7,200.00** |
| | 5. Soils Sulfate Content (Tex-145-E) | | Ea. | **22** | **$ 140.00** | **$ 3,080.00** |
| | 6. Lime Series Testing (Tex-121-E - Part 3) | | Ea. | **10** | **$ 425.00** | **$ 4,250.00** |
| | **Project Sub-Total (Geo Field and Lab)** | | | | | **$ 92,752.20** |

**EXHIBIT D**
**Cost Proposal**

# Summary

| Firm | Labor | Other Direct Expenses & Unit Costs | Total |
|---|---|---|---|
| CDM Smith Inc. | $114,265.36 | $ 3,592.00 | $117,857.36 |
| **Total Authorization Cost** | **$ 114,265.36** | **$ 3,592.00** | **$117,857.36** |

* HUB Firms

# EXHIBIT D
# Cost Proposal

| SUB PROVIDER NAME: CDM Smith Inc. | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 110.06.01 | 110.06.02 | 110.06.03 | 110.06.04 | | |
| LABOR/STAFF CLASSIFICATION | HOURLY CONTRACT RATE | Travel Demand Modeling | Existing Conditions | Project Traffic Forecast Updates | Project Management, QC, and Coordination Meetings | Total Hours | Total Dollars |
| Administrative/Clerical | $111.77 | | | | 16 | 16 | $1,788.32 |
| Engineer (Senior) | $257.08 | | | 24 | | 24 | $6,169.92 |
| Engineer | $203.98 | | | | | 0 | $0.00 |
| Engineer-in-Training II | $139.72 | | | | | | $0.00 |
| Engineer-in-Training I | $128.54 | | 20 | | | 20 | $2,570.80 |
| Deputy Project Manager | $329.73 | | | | | | $0.00 |
| Transportation Planner - Senior | $293.40 | 24 | 20 | 30 | | 74 | $21,711.60 |
| Transportation Planner IV | $245.90 | 30 | | 30 | | 60 | $14,754.00 |
| Transportation Planner III | $192.81 | 36 | | 60 | | 96 | $18,509.76 |
| Transportation Planner I/II | $139.72 | 36 | 20 | 84 | | 140 | $19,560.80 |
| Technical Advisor - Senior | $405.17 | 6 | | 8 | 8 | 22 | $8,913.74 |
| Project Manager | $360.46 | | | | | | |
| Support Manager - TPP Planning | $307.37 | 16 | | 20 | 30 | 66 | $20,286.42 |
| **Total Hours** | | **148** | **60** | **256** | **54** | **518** | |
| **Total Dollars** | | **$33,738.62** | **$11,233.20** | **$55,042.76** | **$14,250.78** | | **$114,265.36** |
| **% by Task Hours** | | 29.5% | 9.8% | 48.2% | 12.5% | | |

**EXHIBIT D**
**Cost Proposal**

**PRIME PROVIDER NAME: CDM Smith Inc.**

| Other Direct Expenses: | Unit | Fixed Cost | Maximum Cost | Cost | Quantity | Total Cost |
|---|---|---|---|---|---|---|
| **Travel** (Set rates in accordance with State of Texas Travel Rates) | | | | | | |
| Lodging/Hotel (Taxes / fees not included) | day/person | | Current State Rate | $ 80.00 | 4 | $ 320.00 |
| Meals (Excluding alcohol & tips) (Overnight stay required) | day/person | | Current State Rate | $ 36.00 | 12 | $ 432.00 |
| Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed) | day | | $85.00 | | 4 | $ 340.00 |
| Rental Car Fuel | gallon | | $5.00 | | 160 | $ 800.00 |
| Air Travel- In State/Out of State (Coach) | Rd Trip/person | | $850.00 | | 2 | $ 1,700.00 |
| | | | | | **Totals :** | **$ 3,592.00** |

The unit costs shown include labor, overhead, and profit. Payment based on units completed. No partial payments.
All unit costs are negotiated costs and are not subject to change or adjustment.
**Unit Cost Payment Basis**: If unit costs by year are included, unit costs billed should correspond to the fiscal or calendar year, if applicable, in which the work was done.
**Note**: Any direct labor, unit cost, or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that

# EXHIBIT D
## Cost Proposal

**SUB PROVIDER NAME: KCI**

| TASK DESCRIPTION | SENIOR TECHNICAL ADVISOR | SENIOR ENGINEER | PROJECT ENGINEER | ENGINEER IN TRAINING II | SENIOR CADD OPERATOR | TOTAL LABOR HOURS |
|---|---|---|---|---|---|---|
| **PRELIMINARY ENGINEERING** | | | | | | |
| | | | | | | |
| **110.06 H&H STUDIES** | | | | | | |
| 1. Field Investigations and Data Gathering | 0 | 80 | 60 | 30 | 12 | 182 |
| 2. H&H Studies | 24 | 90 | 200 | 80 | 32 | 426 |
| 3. Design Documentation | 24 | 80 | 180 | 60 | 24 | 368 |
| 4. Agency Coordination | 16 | 40 | 40 | 40 | 0 | 136 |
| | | | | | | |
| HOURS SUB-TOTALS | 64 | 290 | 480 | 210 | 68 | 1112 |
| RATE PER HOUR | $307.20 | $236.98 | $175.54 | $111.18 | $131.66 | |
| TOTAL LABOR COSTS | $19,660.80 | $68,724.20 | $84,259.20 | $23,347.80 | $8,952.88 | $204,944.88 |
| % DISTRIBUTION OF STAFFING | 5.8% | 26.1% | 43.2% | 18.9% | 6.1% | |
| | | | | | | |
| **SUBTOTAL (FC 110)** | | | | | | **$204,944.88** |

| TASK DESCRIPTION | ENGINEER IN TRAINING II | SENIOR CADD OPERATOR | PROJECT ENGINEER | Senior Environmental Planner | TOTAL LABOR HOURS |
|---|---|---|---|---|---|
| **FC 120 - ENVIRONMENTAL STUDIES & PUBLIC INVOLVEMENT** | | | | | |
| | | | | | |
| | | | | | |
| **120.02.10 Historical Built Environment Resources** | | | | | |
| **Draft/Final PCR** | 24 | 44 | 60 | 92 | **220** |
| **Draft Historic Research Design** | 4 | 8 | 12 | 20 | **44** |
| | | | | | |
| HOURS SUB-TOTALS | 28 | 52 | 72 | 112 | **264** |
| RATE PER HOUR | $111.18 | $131.66 | $175.54 | $263.31 | |
| TOTAL LABOR COSTS | $3,113.04 | $6,846.32 | $12,638.88 | $29,490.72 | **$52,088.96** |
| % DISTRIBUTION OF STAFFING | 2.5% | 4.7% | 6.5% | 10.1% | |
| | | | | | |
| | | | | | |
| **SUBTOTAL (FC 120)** | | | | | **$52,088.96** |

| **OTHER DIRECT EXPESNSES - FC 120** | | | | |
|---|---|---|---|---|
| | **UNIT** | **UNIT/COST** | **QUANITITY** | **SUB TOTAL** |
| Mileage | mile | | | |
| Lodging/Hotel - Taxes and Fees | day/person | $45.00 | $8.00 | $360.00 |
| Lodging/Hotel (Taxes/fees not included) | day/person | $110.00 | 8 | $880.00 |
| Meals (Excluding alcohol & tips) (Overnight stay required) | day/person | $68.00 | 8 | $544.00 |
| Air Travel - In State - 2+ Wks Notice (Coach) | Rd Trip/person | $530.00 | 4 | $2,120.00 |
| | | | **TOTAL ODE** | **$3,904.00** |

| | |
|---|---|
| KCI TOTAL | **$260,937.84** |

# EXHIBIT D
## Cost Proposal

| Outer Parkway - Arroyo Colorado Mussel Survey Landhawk Consultants | | | | |
|---|---|---|---|---|
| **TASK 1 - Project Meetings and Coordination** | | | | |
| **Labor** | | | | |
| Project Manager | 4 | hour | $ 105.00 | $420.00 |
| Malacologist | 2 | hour | $ 125.00 | $250.00 |
| Field Technician | 0 | hour | $ 64.00 | $0.00 |
| Lead Diver | 0 | hour | $ 130.00 | $0.00 |
| **Subtotal** | | | | **$670.00** |
| **TOTAL TASK 1** | | | | **$670.00** |

| TASK 2 - Perform Site Reconnaissance Visit, Develop ARRP, & Acquire TPWD Relocation Permit | | | | |
|---|---|---|---|---|
| **Labor** | | | | |
| Project Manager | 15 | hour | $ 105.00 | $1,575.00 |
| Malacologist | 20 | hour | $ 125.00 | $2,500.00 |
| Lead Diver | 0 | hour | $ 130.00 | $0.00 |
| Field Technician | 40 | hour | $ 64.00 | $2,560.00 |
| GIS Technician | 8 | hour | $ 57.00 | $456.00 |
| Technical Editor | 0 | hour | $ 64.00 | $0.00 |
| Clerical | 0 | hour | $ 45.00 | $0.00 |
| **Subtotal** | | | | **$7,091.00** |
| | | | | |
| **Direct Costs** | | | | |
| Meals w/out overnight | 0 | day | $ 68.00 | $0.00 |
| Meals w/ overnight | 0 | day | $ 51.00 | $0.00 |
| Lodging | 0 | day | $ 110.00 | $0.00 |
| Lodging tax | 0 | day | $ 15.40 | $0.00 |
| Mileage | 1,200 | miles | $ 0.67 | $804.00 |
| Vehicle rental | 0 | day | $ 80.00 | $0.00 |
| Fuel for rental vehicle | 0 | gallons | $ 3.00 | $0.00 |
| Boat rental | 1 | day | $ 500.00 | $500.00 |
| Fuel for boat | 40 | gallons | $ 3.00 | $120.00 |
| Kayaks | 1 | day | $ 80.00 | $80.00 |
| GPS | 1 | day | $ 75.00 | $75.00 |
| **Subtotal** | | | | **$1,579.00** |
| **TOTAL TASK 2** | | | | **$8,670.00** |

# EXHIBIT D
## Cost Proposal

| TASK 3 - Mussel Survey and Relocation & Draft and Final Presence/Absence Report * | | | | |
|---|---|---|---|---|
| **Labor** | | | | |
| Project Manager | 4 | hour | $ 105.00 | $420.00 |
| Malacologist | 120 | hour | $ 125.00 | $15,000.00 |
| Lead Diver | 0 | hour | $ 130.00 | $0.00 |
| Field Technician | 24 | hour | $ 64.00 | $1,536.00 |
| GIS Technician | 24 | hour | $ 57.00 | $1,368.00 |
| Technical Editor | 0 | hour | $ 64.00 | $0.00 |
| Clerical | 0 | hour | $ 45.00 | $0.00 |
| **Subtotal** | | | | **$18,324.00** |
| | | | | |
| **Direct Costs** | | | | |
| Meals w/out overnight | 0 | day | $ 68.00 | $0.00 |
| Meals w/ overnight | 0 | day | $ 51.00 | $0.00 |
| Lodging | 0 | day | $ 110.00 | $0.00 |
| Lodging tax | 0 | day | $ 15.40 | $0.00 |
| Mileage | 0 | miles | $ 0.67 | $0.00 |
| Vehicle rental | 0 | day | $ 80.00 | $0.00 |
| Fuel for rental vehicle | 0 | gallons | $ 3.00 | $0.00 |
| Boat rental | 0 | day | $ 500.00 | $0.00 |
| Fuel for boat | 0 | gallons | $ 3.00 | $0.00 |
| Kayaks | 0 | day | $ 80.00 | $0.00 |
| SCUBA/hookah rental | 0 | day | $ 210.00 | $0.00 |
| Field supplies | 0 | each | $ 80.00 | $0.00 |
| **Subtotal** | | | | **$0.00** |
| **TOTAL TASK 3** | | | | **$18,324.00** |

| TASK 4 - Environmental and Biological Assessment Preparation | | | | |
|---|---|---|---|---|
| **Labor** | | | | |
| Project Manager | 4 | hour | $ 105.00 | $420.00 |
| Malacologist | 80 | hour | $ 125.00 | $10,000.00 |
| Field Technician | 80 | hour | $ 64.00 | $5,120.00 |
| GIS Technician | 16 | hour | $ 57.00 | $912.00 |
| Technical Editor | 0 | hour | $ 45.00 | $0.00 |
| Clerical | 0 | hour | $ 50.00 | $0.00 |
| **Subtotal** | | | | **$16,452.00** |
| **TOTAL TASK 4** | | | | **$16,452.00** |

| **MAXIMUM AMOUNT PAYABLE** | **$44,116.00** |
|---|---|

**EXHIBIT D**
**Cost Proposal**

Highway: Outer Parkway CCRMA
CSJ:
County: Cameron County

Subprovider: Poznecki-Camarillo, Inc.

| | | $ 345.14 | $ 310.63 | $ 255.98 | $ 192.71 | $ 146.69 | $ 215.72 | $ 167.68 | $ 120.80 | $ 101.39 | $ 97.07 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BASIS SERVICES Task Descriptions** | | Project Manager - | Support Manager - | Environmental Planner - Senior | Environmental Planner IV | Environmental Planner III | Environmental Scientist - Senior | Environmental Scientist IV | Environmental Scientist III | Environmental Scientist I/II | Admin/ Clerical | Total Hours | Total Cost |
| **GENERAL REQUIREMENTS** | | | | | | | | | | | | | |
| 1.3 | Progress Reporting and Invoicing | 24 | | | | | | | | | 24 | 48 | $ 10,613.04 |
| **FC (120) Public Involvement and Social, Economic and Environmental Studies** | | | | | | | | | | | | 0 | |
| 120.02.01 | Study Area and Constraints Mapping | 2 | | | | | 12 | | 40 | | | 54 | $ 8,110.92 |
| 120.02.03 | Alternatives Development and Analysis | | | | | | | | | | | 0 | |
| 120.02.04 | Project Scoping Coordination | | | | | | | | | | | 0 | |
| 120.02.05 | Land Use | | | | | | | | | | | 0 | |
| 120.02.09 | Archeological Resources | 2 | | 8 | | | 200 | | 320 | 1600 | | 2130 | $ 246,762.12 |
| 120.02.13 | Traffic Noise | | | | | | | | | | | 0 | |
| 120.02.17 | Other Environmental Resources | 2 | | 8 | | | 8 | | 40 | 40 | | 98 | $ 13,351.48 |
| | **Subtotal Hours:** | **30** | **0** | **16** | **0** | **0** | **220** | **0** | **400** | **1640** | **24** | **2330** | **$ 278,837.56** |
| | **Subtotal Labor Cost:** | **$ 10,354.20** | **$ -** | **$ 4,095.68** | **$ -** | **$ -** | **$ 47,458.40** | **$ -** | **$ 48,320.00** | **$ 166,279.60** | **$ 2,329.68** | | **$ 278,837.56** |

# EXHIBIT D
# Cost Proposal

Other Direct Expensed to be charged to:

Subprovider: Poznecki-Camarillo, LLC

| OTHER DIRECT EXPENSE | UNIT | FIXED COST | MAXIMUM COST | QUANTITY | TOTAL COST |
|---|---|---|---|---|---|
| **Travel** | | | | | |
| Mileage | mile | 0.655 | $0.66 | 1,200 | $786.00 |
| Lodging/Hotel - Taxes and fees | day/person | | $45.00 | 166 | $7,470.00 |
| Lodging/Hotel (Taxes/fees not included) | day/person | | $98.00 | 166 | $16,268.00 |
| Meals (Excluding alcohol & tips) (Overnight stay required) | day/person | | $59.00 | 166 | $9,794.00 |
| Air Travel - In State - 2+ Wks Notice (Coach) | Rd Trip/person | | $530.00 | 4 | $2,120.00 |
| Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed) | day | | $100.00 | 44 | $4,400.00 |
| Rental Car Fuel | gallon | | $5.00 | 300 | $1,500.00 |
| **Administrative** | | | | | |
| Report Printing | each | | $80.00 | 20 | $1,600.00 |
| **Miscellaneous** | | | | | |
| TARL county data and curation fees | project | | $4,000.00 | 1 | $4,000.00 |
| | | | | **Subtotal Other Direct Expense:** | **$47,938.00** |

Sub Provider: RAM
Highway: OUTER PARKWAY CCRMA
22.5 miles x 1.75 miles wide
3 Alignments

Exhibit D
Fee Schedule

| TASK DESCRIPTION | Support Manager | Analytical Triangulation Specialist | Certified Photogrammetrist | Aerial Mapping Technician | LiDAR Processing Technician, Fixed Wing | Aerial Processing Tech | Mapping Editor (incl QA/QC, Finishing, & Finalization) | LIDAR TASK LEAD | Aerial Office Technician | LIDAR MAPPING TECHNICIAN (AERIAL) | TOTAL LABOR HOURS | NO OF DWGS | TOTAL LABOR COST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| **ROADWAY DESIGN - FC 160 (150 - SURVEYING)** | | | | | | | | | | | | | |
| **150.3 Design Surveys (15.2.1)** | | | | | | | | | | | | | |
| Planimetric and LIDAR | 20 | 100 | 10 | 180 | 340 | 180 | 160 | 160 | 0 | 0 | | | |
| **FM 3088 FROM FM 70 to FM 666 5.5 Miles** | | | | | | | | | | | | | |
| HOURS SUB-TOTALS | 20 | 100 | 10 | 180 | 340 | 180 | 160 | 160 | 0 | 0 | **1,150** | | |
| CONTRACT RATE PER HOUR | $165.00 | $165.00 | $110.00 | $165.00 | $165.00 | $110.00 | $55.00 | $123.75 | $123.75 | $110.00 | | | |
| TOTAL LABOR COSTS | $3,300.00 | $16,500.00 | $1,100.00 | $29,700.00 | $56,100.00 | $19,800.00 | $8,800.00 | $19,800.00 | $0.00 | $0.00 | | | $ 155,100.00 |
| % DISTRIBUTION OF STAFFING | 1.7% | 8.7% | 0.9% | 15.7% | 29.6% | 15.7% | 13.9% | 13.9% | 0.0% | 0.0% | 100% | | |
| | | | | | | | | | | | | | |
| **SUB-TOTAL - FC 160 (150 - SURVEYING)** | | | | | | | | | | | | | **$ 155,100.00** |

| OTHER DIRECT EXPENSES | COST/UNIT | # of UNITS | UNIT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **FM 3088 FROM FM 70 ti FM 666 5.5 Miles** | | | | | | | | | | | |
| Fixed Wing Airborne Aerial Imagery/LiDAR - Project Flight Miles (to/from local airport | $ 65.000 | 100 | per mile | | | | | | | | $ 6,500.00 |
| Fixed Wing Flight Vrew | $ 250.000 | 2 | per mile | | | | | | | | $ 500.00 |
| Photo Lab Service - Digital image processing | $ 28.00 | 360 | per frame | | | | | | | | $ 10,080.00 |
| Airborne DPS/IMU Data Collection/processing | $ 2,500.00 | 1 | per project | | | | | | | | $ 2,500.00 |
| Mobilization for Aerial Imagery/LiDAR Fixed Wing Aircraft (Includes aircraft, pilot, sensor/LiDAR operator, fuel and transportation cost) | $ 25,000.00 | 1 | per project | | | | | | | | $ 25,000.00 |
| | | | | | | | | | | | |
| **SUB-TOTAL OTHER DIRECT EXPENSES** | | | | | | | | | | | **$ 44,580.00** |

| SUMMARY | |
|---|---|
| | |
| TOTAL COSTS FOR RAM | $ 155,100.00 |
| TOTAL COST (UNIT COST) | $ - |
| NON-SALARY (OTHER DIRECT EXPENSES) FOR RAM | $ 44,580.00 |
| **GRAND TOTAL** | **$ 199,680.00** |

**EXHIBIT D**
**Cost Proposal**

**SUB PROVIDER NAME: RODS SURVEYING, INC.**

**OUTER LOOP - CAMERON COUNTY**

| TASK | TASK/ DESCRIPTION | Support Manager | Surveyor (RPLS) - Senior | Surveyor (RPLS) | Survey Field Crew Coordinator | CADD Operator - Junior | CADD Operator | CADD Operator - Senior | SIT (Surveyor In Training) - Senior | Survey Tech - Senior | Survey Tech | Admin/Clerical | Abstractor | Task Labor Hours | Task Labor Budget |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $230.05 | $184.04 | $156.98 | $106.91 | $54.13 | $97.43 | $121.79 | $129.91 | $117.11 | $89.31 | $81.19 | $92.02 | | |
| | **FC 150 - DESIGN SURVEYS (APPROX. 22 miles)** | | | | | | | | | | | | | | |
| 1 | **H&V SURVEY CONTROL -** Establish aerial panels and set 2 primary pairs near Arroyo Colorado, perform GPS ties and digital leveling as necessary. Provide ASCII file only to RAM, no control index or data sheets to be prepared. | 6 | 15 | 28 | 38 | | | | 18 | 38 | 78 | | | 221 | $ 26,353.66 |
| 2 | **DESIGN SURVEYS -** Make cross-sections as necessary along Arroyo Colorado for 1,000 feet up and down stream, go 20 feet pass bank as possible. | 1 | 2 | 3 | 7 | | 48 | 28 | 6 | 6 | | | | 101 | $ 11,386.32 |
| 3 | **ROE -** Secure Right-of-Entry to cross land into private property to establish aerial panels when there is no nearby public ROW. | | 1 | 2 | 2 | | | | 4 | 4 | | 4 | | 17 | $ 2,024.66 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 339 | |
| | **Subtotal Hours** | 7 | 18 | 33 | 47 | 0 | 48 | 28 | 28 | 48 | 78 | 4 | 0 | 339 | $ 39,764.64 |
| | **TOTAL Sub LABOR FEE** | $ 1,610.35 | $ 3,312.72 | $ 5,180.34 | $ 5,024.77 | $ - | $ 4,676.64 | $ 3,410.12 | $ 3,637.48 | $ 5,621.28 | $ 6,966.18 | $ 324.76 | $ - | $ | 39,764.64 |

| | |
|---|---|
| **FC -150 LABOR** | $ 39,764.64 |
| **UNIT COST** | $ 142,780.00 |
| **ODE** | $ 44,516.60 |
| **GRAND TOTAL** | $ 227,061.24 |

**EXHIBIT D**
**Cost Proposal**

# UNIT COST

**RODS Surveying, Inc.**

| SERVICES TO BE PROVIDED | QUANTITY | UNIT | COST | TOTAL |
|---|---|---|---|---|
| **1 - Person Survey Crew (1-GPS or Robotic Total Station included. Mileage not included.)** | | hour | $140.00 | $0.00 |
| Crew chief | | | | |
| Vehicle | | | | |
| GPS or Robotic Total Station | | | | |
| | | | | |
| **2 - Person Survey Crew (1-GPS or Robotic Total Station included. Mileage not included.)** | | hour | $195.00 | $0.00 |
| Crew chief + Instrument man | | | | |
| Vehicle | | | | |
| GPS or Robotic Total Station | | | | |
| | | | | |
| **3 - Person Survey Crew (1-GPS or Robotic Total Station included. Mileage not included.)** | 590 | hour | $242.00 | $142,780.00 |
| Crew chief + Instrument man + Rodman | | | | |
| Vehicle | | | | |
| GPS or Robotic Total Station | | | | |
| | | | **TOTAL** | **$142,780.00** |

The unit costs shown include labor, overhead, and profit. Payment based on units completed. No partial payments.

All unit costs are negotiated costs and are not subject to change or adjustment.

**Unit Cost Payment Basis:** If unit costs by year are included, unit costs billed should correspond to the fiscal or calendar year, if applicable, in which the work was done.

**Note:** Any direct labor, unit cost, or other direct expense classification included in the contract, but not in a work authorization, is not eligible for payment under that work authorization.

# EXHIBIT D
## Cost Proposal

**RODS Surveying, Inc.**

| OTHER DIRECT EXPENSES | # of Units | Cost/Unit | Units | TOTAL |
|---|---|---|---|---|
| **Travel** | | | | |
| Mileage (# of miles) (current state rate) | 2280 | $ 0.67 | mile | $ 1,527.60 |
| Lodging/Hotel (Taxes/fees not included) (current state rate) | 147 | $ 118.00 | day/person | $ 17,346.00 |
| Lodging/Hotel - Taxes and Fees | 147 | $ 45.00 | day/person | $ 6,615.00 |
| Meals (overnight stay required) (current state rate) | 147 | $ 74.00 | day/person | $ 10,878.00 |
| Toll Charges | 1 | $ 50.00 | day | $ 50.00 |
| **Surveying / ROW** | | | | **0** |
| Type II ROW/Control Monument - Poured 2-3 Feet (includes equipment, materials, & rentals). Marker supplied by TxDOT | 6 | $ 300.00 | each | $ 1,800.00 |
| Ground Target (includes paint and panel material) | 30 | $ 30.00 | each | $ 900.00 |
| Hydrographic Sonar Equipment | 6 | $ 500.00 | day | $ 3,000.00 |
| **Miscellaneous** | | | | **0** |
| Boat with Motor | 6 | $ 400.00 | day | $ 2,400.00 |
| **SUBTOTAL OTHER DIRECT EXPENSES** | | | | $ 44,516.60 |

**EXHIBIT D**
**Cost Proposal**

**Sub Provider: RODS Subsurface Utility Engineering, Inc.**
**Specified Rate Fee Payment Basis**

November 14, 2024

| Salary Classification | | | Contract Rate | Hours/Quanity | Total |
|---|---|---|---|---|---|
| Support Manager | | | $208.96 | 28 | $5,850.88 |
| Engineer - Senior | | | $201.86 | 27 | $5,450.22 |
| Project Controls Specialist - Senior | | | $141.55 | 0 | $0.00 |
| Project Controls Specialist | | | $106.55 | 0 | $0.00 |
| Engineer - EIT (Engineer-In-Training) | | | $123.38 | 66 | $8,143.08 |
| Engineer -Graduate | | | $106.55 | 49 | $5,220.95 |
| Engineer Tech - Senior | | | $98.14 | 0 | $0.00 |
| Engineer Tech | | | $92.53 | 0 | $0.00 |
| Engineer Tech - Junior | | | $70.10 | 0 | $0.00 |
| Admin/Clerical | | | $89.73 | 42 | $3,768.66 |
| CADD Tech - Senior | | | $98.14 | 0 | $0.00 |
| CADD Tech | | | $84.12 | 0 | $0.00 |
| CADD Tech - Junior | | | $70.10 | 0 | $0.00 |
| SUE Manager | | | $196.28 | 0 | $0.00 |
| SUE Field Manager | | | $137.40 | 0 | $0.00 |
| Utilities Coordinator - Senior | | | $195.47 | 0 | $0.00 |
| Utilities Coordinator | | | $117.77 | 0 | $0.00 |
| Utilities Field Inspector - Senior | | | $137.40 | 0 | $0.00 |
| Utilites Field Inspector | | | $98.14 | 0 | $0.00 |
| Engineering Specialist (Utilitiy) - Senior | | | $106.55 | 0 | $0.00 |
| **SUBTOTAL FOR LABOR** | | | | 212 | $28,433.79 |
| | Vacuum Excavation Vehicles (Mobilization) | mi | $6.50 | 3,180 | $20,670.00 |
| | Pavment Coring | each | $275.00 | 18 | $4,950.00 |
| SUE Quality Level D (Includes labor and eqipment for records resarch, CADD and mapping.) | | LF | $0.75 | 22,075 | $16,556.25 |
| SUE Quality Level C (Includes labor and eqipment for records resarch, CADD and mapping.) | | LF | $0.95 | 66,225 | $62,913.75 |
| SUE Quality Level B - Utility Designation (Includes labor and eqipment for records research, designating, engineering, surveying, CADD mapping and limited traffic control.) | | LF | $2.00 | 41,700 | $83,400.00 |
| SUE Field Services | | | | | |
| One (1) Designating Person with equipment | | Hour | $160.00 | 80 | $12,800.00 |
| Two (2) Designating People with equipment | | Hour | $225.00 | 80 | $18,000.00 |
| SUE Quality Level A Testholes (Per testhole depth) | | | | | |
| | Level A: 0 to 4.99 ft. | Each | $1,400.00 | 10 | $14,000.00 |
| | Level A: > 5 to 7.99 ft. | Each | $1,700.00 | 12 | $20,400.00 |
| | Level A: > 8 to 12.99 ft. | Each | $2,225.00 | 6 | $13,350.00 |
| | Level A: > 13 to 19.99 ft. | Each | $2,750.00 | | $0.00 |
| | Level A: > 20 ft. | VF | $240.00 | | $0.00 |
| **SUBTOTAL FOR UNIT COST** | | | | | $267,040.00 |

| **SUMMARY** | | |
|---|---|---|
| SUBTOTAL FOR LABOR | (see attached) | $28,433.79 |
| SUBTOTAL FOR UNIT COST | (see above) | $267,040.00 |
| SUBTOTAL FOR DIRECT EXPENSES | (see attached) | $55,174.60 |
| **TOTAL** | | **$350,648.39** |

**EXHIBIT D**
**Cost Proposal**

| LABOR BUDGET BY TASK | $208.96 | $201.86 | $141.55 | $123.38 | $106.55 | $98.14 | $92.53 | $70.10 | $89.73 | $98.14 | $84.12 | $70.10 | $196.28 | $106.55 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RODS Subsurface Utility Engineering, Inc. (SUB PROVIDER)** | **Support Manager** | **Engineer - Senior** | **Project Controls Specialist - Senior** | **Engineer - EIT (Engineer-In-Training)** | **Engineer -Graduate** | **Engineer Tech - Senior** | **Engineer Tech** | **Engineer Tech - Junior** | **Admin/Clerical** | **CADD Tech - Senior** | **CADD Tech** | **CADD Tech - Junior** | **SUE Manager** | **Engineering Specialist (Utilitiy) - Senior** | **TOTAL** |
| **1.0 PROJECT MANAGEMENT (FC 145)** | | | | | | | | | | | | | | | |
| A Progress Meetings - Prep, Attendance, Doc. | 28 | 14 | | 36 | 49 | | | | | | | | | | $18,340 |
| D Invoicing | | 13 | | 30 | | | | | 42 | | | | | | $10,094 |
| | | | | | | | | | | | | | | | |
| **SUBTOTAL FOR LABOR** | 28 | 27 | 0 | 66 | 49 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | **$28,433.79** |

**EXHIBIT D**

**Cost Proposal**

| **RODS Subsurface Utility Engineering, Inc.**<br>Service to Be Provided | Unit | Fixed Cost | Maximum Cost | Quantity | Total |
|---|---|---|---|---|---|
| Travel | | | | | |
| QLB SUE Crew | | | | | |
| Lodging/Hotel (Taxes / fees not included) | day/person | | $ 107.00 | 45 | $ 4,815.00 |
| Lodging/Hotel - Taxes and fees | day/person | | $ 20.00 | 45 | $ 900.00 |
| Meals (Excluding alcohol & tips) (Overnight stay required) | day/person | | $ 59.00 | 45 | $ 2,655.00 |
| Mileage | mile | | $ 0.670 | 1,600 | $ 1,072.00 |
| | | | | | |
| QLA SUE Crew | | | | | |
| Lodging/Hotel (Taxes / fees not included) | day/person | | $ 107.00 | 54 | $ 5,778.00 |
| Lodging/Hotel - Taxes and fees | day/person | | $ 20.00 | 54 | $ 1,080.00 |
| Meals (Excluding alcohol & tips) (Overnight stay required) | day/person | | $ 59.00 | 54 | $ 3,186.00 |
| Mileage | mile | | $ 0.670 | 3,180 | $ 2,130.60 |
| Miscellaneous | | | | | |
| Portable Message Board | day | | $ 500.00 | | $ - |
| Flashing Arrow Board | day | | $ 600.00 | | |
| Law Enforcement/Uniform Office (including vehicle) | hour | | $ 150.00 | | |
| Attenuator trucks - (Lane/Shoulder Closure)<br>(Includes labor, equipment and fuel) | day | | $ 1,600.00 | 14 | $ 22,400.00 |
| Attenuator trucks - (No Lane Closure)<br>(Includes labor, equipment and fuel) | day | | $ 1,000.00 | | $ - |
| Traffic Control Services, Arrow Boards and Attenuator trucks<br>(Includes labor, equipment and fuel) | day | | $ 5,150.00 | 4 | $ 20,600.00 |
| **SUBTOTAL FOR DIRECT EXPENSES** | | | | | **$ 55,174.60** |

**2-N DISCUSSION AND POSSIBLE ACTION REGARDING THE TRANSITION WITH THE HARRIS COUNTY TOLL ROAD AUTHORITY.**

**2-O CONSIDERATION AND APPROVAL OF PROFESSIONAL ENGINEERING CONSULTING SERVICES AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND JWH & ASSOCIATES FOR ENGINEERING SERVICES RELATING TO THE UPDATE OF THE FM 511 ROADWAY ANALYSIS.**

# JWH & Associates, Inc.

3014 Fairway Drive Sugar Land, Texas 77478
956.793.3870 Cell Phone jhudson8@comcast.net Email

**November 15, 2024**

**Mr. Pete Sepulveda**
**Executive Director**
**Cameron County Regional Mobility Authority**
**3461 Carmen Ave., Suite 5**
**Rancho Viejo, Texas 78575**

**Re: Professional Engineering Consulting Services Agreement for the Engineering services relating to the update of the FM 511 roadway analysis.**

Dear Mr. Sepulveda,

I request approval for providing engineering consulting services relating to the update of the FM 511 roadway analysis originally developed in 2016. The Brownsville Comprehensive Plan contains the Transportation Plan Element defining the Thoroughfare Classifications with FM 511 as a Primary Arterial Street. By definition, a Primary Arterial has two cross section alternatives definitions; one for Rural Facilities and the other for Urban Facilities. The Rural classification specifies a 150-feet of right of way with four 12-foot travel lanes, a 16-foot center lane, two 10- foot shoulders, and two 33-foot buffer zones for open ditch drainage and utilities. The Urban cross section specifies a 120-foot right-of-way and a similar lane and shoulder distributions with a curb and gutter section.

This analysis will provide an update of the traffic volumes, traffic turning movements at the critical intersections, capacity analysis, right of way analysis and recommendations for improvements or for future planning of improvements.

**Description of Project**

An analysis of the existing conditions of the roadway will be developed between FM 1419 (Southmost Rd.) on the south and to the frontage roads of SH 48 to the north, a distance of approximately five miles. The field analysis will define the existing land use, traffic conditions, roadway and intersection access, speed limits, number of travel lanes, and traffic controls at intersections. Traffic counts will be conducted at the four critical intersections including the classification of vehicles. The traffic counts will include the turning movements at the four main intersections. A drone flight will be conducted to view the conditions and for data to be used in presentations. A capacity analysis will be conducted at the four intersections to determine the existing and future levels of service. The future traffic volumes developed by the City of Brownsville and the Metropolitan Planning Organization will be evaluated in terms of planned levels of service. Planned and future major employment centers will be included within the analysis including the impact of Space X related travel on this thoroughfare.

**Type of Contract and Estimated Period**

Services to be performed for will be based on an “hourly rate attached and not to exceed **$40,283.00** as reflected of the proposed fee spreadsheet the attached. Time sheets will be provided for each invoice. Expenses will be invoiced based on the schedule Exhibit A. The project will be completed within **120 days** the date of the notification to proceed.

**Authorization**

The ENGINEER shall be authorized to proceed with the proposed services for the PROJECT upon execution of this agreement.

If to the ENGINEER:

JWH AND ASSOCIATES, INC.
3014 Fairway Drive
Sugar Land, Texas 77478
Attention: John W. Hudson, Jr., P. E.
Phone: 956-793-3870
E-mail jhudson8@comcast.net

By

Date: October 29, 2024

If to the OWNER:

**Cameron County Regional Mobility Authority**

Approved

By: _____

Title: _____

Date: _____

# Exhibit A

## JWH and Associates, Inc.
## Billing Rate Table

### Staff

| Classifications | Billing Rate |
|---|---|
| Principal- John Hudson | $275.00 |
| Engineer Associate- Dustin Qualls | $150.00 |
| CADD Technician | $100.00 |
| Administrative Assistant | $80.00 |
| Assistant | $50.00 |

### Reimbursable Expenses Billing Rate

| | |
|---|---|
| Parking | Actual cost |
| Printing | Actual cost |
| Mileage | 65.5 Cents/mile |
| Airfare | Actual cost |
| Rent Car | Actual cost |
| Lodging | Actual cost |
| Means (per diem) | $60.00/day |
| Subcontract services | Actual cost + 10% |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **EXHIBIT A** | | | | | | | | |
| | **Project Cost Estimate** | | | | | | | | |
| **Scope Proposal by J W H & Assoc., Inc** | | | | | | | | | |
| **Project:** | **Update of the FM 511 Report Transportation Analysis** | | | | | | | | |
| | **Cameron County** | | | | | | | | |
| **Client:** | **Cameron County Regional Mobility Authority** | | | | | | | | |
| **Cost Estimate for Scope of Services** | | | | | | | | | |
| **Date: October 29, 2024** | | | | | | | | | |
| **Time Period: 120 days** | Principal | Engr. Ass't. | CADD | Admin. Asst. | Sub-Contract | | | Total | Total cost |
| Hourly Rate | $275.00 | $150.00 | $100.00 | $80.00 | $1,000 | | | Man hours | |
| | Man hours | Man hours | Man hours | Man hours | | | | | |
| **Task 1: Project preparation for Kickoff meeting** | 4 | | | | | | | 4 | $1,100.00 |
| **Task 2: Field surveys, photos, land use inventory, drone flights** | 16 | | | | | | | 16 | $4,400.00 |
| **Task 3: Collection of traffic volumes, future data from City of Brownsville** | 12 | | | | | | | 12 | $3,300.00 |
| **Task 4: Turning movement counts - 6 locations-subcontracted** | 6 | | | | 6 | | | 12 | $7,650.00 |
| **Task 5: Reseach existing right-of-way , drawings on aerials** | 12 | 4 | | | | | | 16 | $3,900.00 |
| **Task 6: Special wide and long loads analysis - autocad turn analysis** | 8 | 4 | 6 | | | | | 18 | $3,400.00 |
| **Task 7: Plan improvements, cad drawings** | 16 | 4 | 10 | | | | | 30 | $6,000.00 |
| **Task 8: Capacity Analysis at 4 intersections** | 4 | 8 | | | | | | 12 | $2,300.00 |
| **Task 9: Develop Report of finding and Power point presentation** | 16 | 4 | | 4 | | | | 24 | $5,320.00 |
| **Task 10: Presentations** | 4 | | | | | | | 4 | $1,100.00 |
| **Total** | 98 | 24 | 16 | 4 | | 0 | 0 | 148 | $38,470.00 |
| **Expenses** | Unit Cost | No. | Unit | Total | | | | | |
| **Mileage** | $0.66 | 1600 | miles | $1,048.00 | | | | | |
| **Per diem (meals)** | $60.00 | 4 | Days | $240.00 | | | | | 4 |
| **Airfare** | $500.00 | 0 | Rd. trip | $0.00 | | | | | |
| **Parking** | $40.00 | 0 | Days | $0.00 | | | | | |
| **Rent car** | $75.00 | 0 | Days | $0.00 | | | | | |
| **Lodging** | $125.00 | 3 | Days | $375.00 | | | | | |
| **Rent car fuel** | $20.00 | 0 | Each | $0.00 | | | | | |
| **Printing/reproductions** | $150.00 | 1 | Lump sum | $150.00 | | | | | |
| **Total Expense cost** | | | | $1,813.00 | | | | | |
| **Total Project Cost Estimate** | | | | | | | | | $40,283.00 |