



## **AGENDA**

**Special Meeting of the Board of Directors  
of the  
Cameron County Regional Mobility Authority**

**Cameron County Dancy Courthouse  
1100 E. Monroe Street  
Brownsville, TX 78520**

**Thursday, April 16, 2009**

**12:00 Noon**

- I. Public Comments**
- II. Consideration and Approval of the Minutes for March 12, 2009 Special Meeting and the March 12, 2009 Regular Meeting**
- III. Consideration and approval of the GEC Report for March 2009**
- IV. Consideration and approval of Revenue and Expense Report for March 2009**
- V. Consideration and approval of an Interlocal Agreement between CCRMA and Cameron County for the FM 509 Project**
- VI. Consideration and Approval of Resolution authorizing the Chairman of the Cameron County Regional Mobility Authority to submit an application for Pass Through Financing for the East Loop Project**
- VII. Consideration and approval of Work Authorization No. 13 with HNTB for the Project Development Agreement Coordination and Negotiation Support**
- VIII. Consideration and approval of Work Authorization No. 16 with HNTB for the West Rail Project**
- IX. Consideration and approval of Work Authorization No. 17 with HNTB for the 2<sup>nd</sup> Access Project**
- X. Consideration and approval of Work Authorization No. 18 with HNTB for the West Loop Project**
- XI. Consideration and approval of Work Authorization No. 19 with HNTB for the East Loop Project**
- XII. Consideration and approval of Work Authorization No. 20 with HNTB for General Engineering Services**
- XIII. Executive Session Items**
  - a. Consultation with, and advice from Legal Counsel concerning negotiations and related contract issues with the Texas Department of Transportation regarding the Cameron County Regional Mobility Authority's projects, specifically SH 550 and West Loop and other legal issues affecting the authority, Pursuant to V.T.C.A. Government Code, Section 551.071 (2)**

ACCEPTED FOR FILING  
CAMERON COUNTY

2009 APR 13 A 11:02

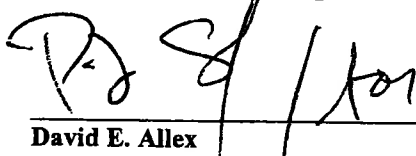
- b. Deliberation regarding real property concerning acquisition of Parcel 2, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072
- c. Deliberation regarding real property concerning acquisition of Parcels 3 and 3(E), for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072
- d. Deliberation regarding real property concerning acquisition of Parcel 4, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072
- e. Deliberation regarding real property concerning acquisition of Parcel 5, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072
- f. Deliberation regarding real property concerning acquisition of Parcel 7, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072
- g. Deliberation regarding real property concerning acquisition of Parcel 17, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072
- h. Deliberation regarding real property concerning acquisition of Parcel 18, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072

**XIV. Action relative to Executive Session**

- a. Possible Action
- b. Possible Action
- c. Possible Action
- d. Possible Action
- e. Possible Action
- f. Possible Action
- g. Possible Action
- h. Possible Action

**XV. Adjournment**

Signed this 13<sup>th</sup> day of April 2009

  
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David E. Allex  
Chairman

## **EXECUTIVE SESSION**

### **(XII) EXECUTIVE SESSION**

Upon motion by Director Garza, seconded by Director Gallegos and carried unanimously, the Board met in Executive Session at 12:02 P.M. to discuss the following matters:

- A. Consultation with, and advice from Legal Counsel concerning negotiations and related contract issues with the Texas Department of Transportation regarding the Cameron County Regional Mobility Authority's projects, specifically SH 550 and West Loop and other legal issues affecting the authority; Pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.071(2).
- B. Deliberation regarding real property concerning acquisition of Parcel 2, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.
- C. Deliberation regarding real property concerning acquisition of Parcel 3 and 3(E), for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.
- D. Deliberation regarding real property concerning acquisition of Parcel 4, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.
- E. Deliberation regarding real property concerning acquisition of Parcel 5, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.
- F. Deliberation regarding real property concerning acquisition of Parcel 7, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.
- G. Deliberation regarding real property concerning acquisition of Parcel 17, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.
- H. Deliberation regarding real property concerning acquisition of Parcel 18, for the West Rail Project, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.072.

Upon motion by Director Gallegos, seconded by Director Garza and carried unanimously, the Board reconvened into Regular Session at 12:34 P. M.

### **(XIV) ACTION RELATIVE TO EXECUTIVE SESSION:**

- A. Consultation with, and advice from Legal Counsel concerning negotiations and related contract issues with the Texas Department of Transportation regarding the Cameron County Regional Mobility Authority's projects, specifically SH 550 and West Loop and other legal issues affecting the authority.

Director Gallegos moved that the report presented by staff be acknowledged.

The motion was seconded by Director Garza and carried unanimously.

- B. In the matter regarding deliberation regarding real property concerning acquisition of Parcel 2, for the West Rail Project. (TABLED)
- C. In the matter regarding deliberation regarding real property concerning acquisition of Parcel 3 and 3(E), for the West Rail Project. (TABLED)
- D. In the matter regarding deliberation regarding real property concerning acquisition of Parcel 4, for the West Rail Project. (TABLED)
- E. In the matter regarding deliberation regarding real property concerning acquisition of Parcel 5, for the West Rail Project. (TABLED)

Upon motion by Director Garza, seconded by Director Gallegos and carried unanimously, these items were tabled.

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- F. Deliberation regarding real property concerning acquisition of Parcel 7, for the West Rail Project.

Director Villalobos moved that the acquisition of Parcel 7, in the amount of \$180,000.00 be approved.

The motion was seconded by Director Garza and carried unanimously.

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- G. Deliberation regarding real property concerning acquisition of Parcel 17, for the West Rail Project.

Director Scaief moved that the acquisition of Parcel 17, in the amount of \$43,853.00, for the West Rail Project be approved.

The motion was seconded by Director Villalobos and carried unanimously.

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- H. Deliberation regarding real property concerning acquisition of Parcel 18, for the West Rail Project.

Director Villalobos moved that the acquisition of Parcel 18, in the amount of \$45,000.00 for the West Rail Project be approved.

The motion was seconded by Director Garza and carried unanimously.

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**I. PUBLIC COMMENTS**

None were presented at this time.

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**II. CONSIDERATION AND APPROVAL OF THE MINUTES FOR MARCH 12, 2009 SPECIAL MEETING AND THE MARCH 12, 2009 REGULAR MEETING**

Upon motion by Director Garza, seconded by Director Gallegos and carried unanimously, the Minutes for March 12, 2009, Special Meeting and the March 12, 2009, Regular Meeting were approved.

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**III. CONSIDERATION AND APPROVAL OF THE GEC REPORT FOR MARCH 2009**

Mr. Balli, Mr. Richard Ridings, HNTB and Mr. Sepulveda provided a detailed update and status report on all on going projects, specifically, West Rail, North Rail, SPI 2<sup>nd</sup> Access, SH 550, FM 511, FM 509, and the East Loop Pass-Through Applications. Board Members asked for clarifications on some projects and responses were given accordingly by Mr. Balli, Mr. Ridings, and Mr. Sepulveda. Mr. Sepulveda advised the Board that on April 17<sup>th</sup>, there would be a West Rail Technical Meeting.

**NOTE: DIRECTOR ALVAREZ ARRIVED AT THIS TIME.**

Upon motion by Director Gallegos, seconded by Director Garza and carried unanimously, the March 2009 GEC Report was acknowledged.

**The Report is as follows: See Attached**

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**IV. CONSIDERATION AND APPROVAL OF REVENUE  
AND EXPENSE REPORT FOR MARCH 2009**

Mrs. Martha Galarza, County Auditor, informed the Board that she received the FY 2008 Financial Report and External Audit and that it would be presented to the Board at the next meeting.

Upon motion by Director Alvarez, seconded by Director Gallegos and carried unanimously, the Revenue and Expense Report for March 2009 was accepted.

**The Reports are as follow:**

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**V. CONSIDERATION AND APPROVAL OF AN  
INTERLOCAL AGREEMENT BETWEEN CCRMA  
AND CAMERON COUNTY FOR THE FM 509  
PROJECT**

Mr. Sepulveda informed the Board that a 3.5 mile section of State road would be transferred to County and that the County would need to maintain said roads, them being FM 1595 and FM 1599 north of FM 508.

Upon motion by Director Scaief, seconded by Director Alvarez and carried unanimously, the Interlocal Agreement between the CCRMA and Cameron County was approved.

**The Agreement is as follows: See Attached**



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**VI. CONSIDERATION AND APPROVAL OF  
RESOLUTION AUTHORIZING THE CHAIRMAN OF  
THE CAMERON COUNTY REGIONAL MOBILITY  
AUTHORITY TO SUBMIT AN APPLICATION FOR  
PASS THROUGH FINANCING FOR THE EAST LOOP  
PROJECT**

Director Garza moved that the Resolution authorizing the Chairman of the Cameron County Regional Mobility Authority to submit an application for Pass Through Financing for the East Loop Project

The motion was seconded by Director Alvarez and carried unanimously.

**The Resolution is as follows:**

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**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 13 WITH HNTB FOR THE  
PROJECT DEVELOPMENT AGREEMENT  
COORDINATION AND NEGOTIATION SUPPORT**

Mr. Richard Ridings explained in detail the purpose and scope of this Work Authorization. Mr. Ridings explained that at the conclusion of their Work Authorization the CCRMA should have a negotiated agreement with TxDOT that will outline how improvements to SH 550 (FM 511) and US 77, will be undertaken. Board members asked how this Work Authorization was going to be funded and Mr. Sepulveda explained that when an agreement is successfully negotiated with TxDOT, the CCRMA could get reimbursed or if the CCRMA would sell bonds, this cost would be included.

Chairman Alex asked if Mr. Sepulveda was recommending approval of the Work Authorizations, and Mr. Sepulveda responded in the affirmative.

Upon motion by Director Gallegos, seconded by Director Garza and carried unanimously, Work Authorization No. 13 with HNTB for the Project Development Agreement Coordination and Negotiation Support was approved.

**The WA is as follows: See Attached**

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**VIII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 16 WITH HNTB FOR THE  
WEST RAIL PROJECT**

Mr. Ridings, HNTB, explained in detail the scope of their Work Authorization. The Work Authorization is primarily to deal with utility relocations, electrical, gas, water, sewer, and/or drainage and irrigation structures. Mr. Sepulveda mentioned that this work is normally done during the right of way acquisition process and prior to letting a project to construction. The funding source for this Work Authorization is Federal funds that have been received for the West Rail Project.

Director Garza moved that Work Authorization No. 16 with HNTB for the West Rail Project be approved, pending approval from TXDOT.

The motion was seconded by Director Gallegos and carried unanimously.

**The WA is as follows: See Attached**

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**IX. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 17 WITH HNTB FOR THE 2<sup>ND</sup>  
ACCESS PROJECT**

Mr. Richard Ridings gave a detailed explanation of this Work Authorization. This would be Phase III of the process outlined in the Project Development Plan that was prepared by HNTB and approved by TxDOT. During this Phase a draft Environmental Impact Study will be conducted for the remaining five alternatives (see attached map). An environmental at the end of this process, a public hearing will be held. An environmental and engineering matrix will be performed during this phase. Mr. Sepulveda mentioned that the funding source would be toll equity funds from TxDOT and that the General Engineering Contract between CCRMA and HNTB spelled out the process for payment of invoices.

Director Gallegos moved that Work Authorization No. 17 with HNTB for the 2<sup>nd</sup> Access Project be approved, pending approval from TXDOT.

The motion was seconded by Director Villalobos and carried as follows:

AYE: Chairman Alex, Director Gallegos, Director Alvarez, Director Garza and Director Villalobos

NAY: None

ABSTAIN: Director Scaief

**The WA is as follows: See Attached**

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**X. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 18 WITH HNTB FOR THE  
WEST LOOP PROJECT**

Mr. Richard Ridings, HNTB, explained the need for this Work Authorization. Board members asked what this Work Authorization would accomplish and Mr. Ridings responded saying that the correct, factual information about the project would be given to the public. There is a problem with inaccurate information circulating that needs to be corrected. Mr. Sepulveda mentioned that the funding source is Toll Equity Funds from TxDOT and that the General Engineering Contract between the CCRMA and HNTB outline the process for payment of invoices.

Mr. Richard Riding, HNTB, reported that all public involvement was complete.

Director Garza moved that Work Authorization No. 18 with HNTB for the West Loop Project be approved, pending approval from TXDOT.

The motion was seconded by Director Alvarez and carried unanimously.

**The WA is as follows: see attached**

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**XI. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 19 WITH HNTB FOR THE  
EAST LOOP PROJECT**

Mr. Ridings went over the scope of the Work Authorization. TxDOT has a program call for projects to be funded under the Pass-Through Financing Program. \$300 million are available State wide. The CCRMA's application needs to be modified to meet the new program guidelines. Applications are due May 12<sup>th</sup>, and the Texas Transportation Commission is expected to select projects on June 25<sup>th</sup>. This process will be very competitive. Mr. Sepulveda advised the Board that the funding source will be Vehicle Registration fees.

Upon motion by Director Alvarez, seconded by Director Scaief and carried unanimously, Work Authorization No. 19 with HNTB for the East Loop Project was approved.

**The WA is as follows: See Attached**

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**XII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 20 WITH HNTB FOR  
GENERAL ENGINEERING SERVICES**

Mr. Ridings went over the scope of this Work Authorization dealing with the relocation of the switchyard in downtown Harlingen to Olmito. A letter of continuance activity needs to be developed as per TxDOT. Mr. Sepulveda said the funding source for this Work Authorization will be Vehicle Registration fees.

Director Garza moved that Work Authorization No. 20 with HNTB for the General Services be approved.

The motion was seconded by Director Alvarez and carried unanimously.

**The WA is as follows: See Attached**

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- VII. There being no further business to come before the Board and upon motion by Director Gallegos, seconded by Director Garza the meeting was **ADJOURNED** at 1:54 P.M.
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APPROVED this 14<sup>th</sup> day of May 2009.

  
CHAIRMAN DAVID E. ALLEX

ATTESTED:

  
SECRETARY RUBEN GALLEGOS, JR.



**III. CONSIDERATON AND APPROVAL OF THE GEC  
REPORT FOR MARCH 2009**

Pete Sepulveda Jr.  
CCRMA Coordinator  
Cameron County Regional Mobility Authority  
1100 East Monroe Street  
Brownsville, TX 78520

**HNTB**

April 10, 2009

Dear Mr. Sepulveda,

The following is a summary of our progress on the subject projects for the month of March, 2009.

**Project Management:**

**General GEC**

- Prepared contract correspondence and monthly GEC progress report.
- Prepared & submitted CCRMA GEC Invoice for work performed on Work Authorization Nos. 7, 12 and 14.
- Updated and submitted February 2008 GEC work authorization status report.
- ✓ • On March 12, Richard Ridings attended the Board executive session and presented the status of all the CCRMA system projects. Project fact sheets and schedules were provided to all board members.
- On March 12, Richard Ridings and Paul Petrich attended a kickoff meeting for C&M Traffic and Revenue studies. Additional conference calls and responses to e-mail questions continue.
- On March 23, Richard Ridings, Bobby Balli, Stacey Benningfield, and Loretta Schietinger met with TxDOT and CCRMA representatives to discuss WA 17 – SPI Phase 3 scope and WA 18- West loop PI scope and fee. These were revised based on the comments and resubmitted to TxDOT and the RMA on April 1.
- On March 26, Richard Ridings submitted Scope and Fee proposals for:
  - Work Authorization No 16: West Rail relocation – resubmitted with comments addressed
  - Work Authorization No 19: Pass through financing application support
  - Work Authorization No 20: Harlingen Rail support
- HNTB continues to attend numerous meetings and correspond with RMA staff and others to support the RMA's efforts.

**North Rail Relocation Project (Work Authorization No. 4)**

North Rail Relocation Project relocates the existing and operating freight rail lines away from incorporated and unincorporated areas of Cameron County, Texas, in particular in and around Harlingen, Texas. An effective relocation of the existing freight rail facility will not only improve freight rail operations to and from the US/Mexico border, but may aid in the enhancement of air quality for the area, improve the safety of the traveling public with regard to the freight rail/passenger interface, improve the response time of emergency vehicles, minimize if not eliminate the transport of hazardous material via freight rail through towns, improve traffic congestion, and ultimately enhance the economic development of the region.

- HNTB staff continued discussions with UPRR representatives and CCRMA staff. The Work Authorization is complete and awaiting final payment.

**FM 509 Project (Work Authorization No. 5)**

The FM 509 project is a relief route around the north and east areas of the City of Harlingen that would construct FM 509, in Cameron County, from US 77 to the Intersection with FM 508. The proposed facility would consist of a four-lane roadway with directions of travel separated by a center median. Dependent upon traffic projections, an interim facility with fewer lanes may initially be constructed. Interchanges or grade separations would be constructed at major thoroughfares. As proposed, the right-of-way would be 300-feet wide (usual) and sufficient to accommodate future transportation needs; however, any future improvements would be subject to environmental review. This could include bicycle and pedestrian facilities, general purpose lanes, truck lanes, or some combination of these modes.

- Project coordination.
- HNTB submitted the EA to TxDOT ENV for review on January 12, 2009. TxDOT has indicated that this project is not a high priority and may take as much as 6 months to complete their review.

**West Loop Project (Work Authorization No. 7):**

The proposed West Loop Road is a new location facility and will provide a four-lane controlled access expressway with interchanges and connections at strategic locations and grade separation structures for several crossing streets in Brownsville. The majority of the project alignment falls within or in the vicinity of the existing Union Pacific Railroad right-of-way. Negotiations are underway to relocate the railroad and donate the right-of-way to the county for the project.

- Additional Public Involvement is proposed which includes "kitchen table" type meetings with home owners as well as neighborhood meetings and newsletters to help foster information exchange and a 2<sup>nd</sup> public meeting at the end of this 6 month effort. This scope and fee has been submitted for approval.
- HNTB currently completing the Draft Public Meeting Summary Report, submittal of report to CCRMA for review anticipated in Spring 2009.
- HNTB attended the St. Joseph parishioner stakeholders meeting on March 31<sup>st</sup>.
- The Draft EA is on hold with completion contingent upon possible additional public involvement.
- Schematic work is on hold until a preferred alternative is selected.

**West Rail Relocation Project (Work Authorization No. 8):**

This Work Authorization provides appropriate subconsultant(s) for staff coordination with the Mexican agencies to monitor and determine project schedules, permit requirements, funding technical agreements and design for the West Rail Relocation around Brownsville, Texas. The project plans will require approval by Secretaría de Comunicaciones y Transportes (SCT), Comisión Internacional de Límites Y Aguas (CILA) and Kansas City Southern Mexico (KCSM).

- Dr de las Fuentes continues to facilitate discussions between the CNA (Comision Nacional de Aguas) and CILA as well as the SCT and the project's engineering staff on both sides of the border.

**South Padre Island Second Access (Work Authorization No. 12):**

*This work authorization provides engineering and environmental services associated with the development and advancement of the National Environmental Policy Act (NEPA) process for the proposed South Padre Island (SPI) 2<sup>nd</sup> Access Project. The tasks associated with the project will include the development of an environmental impact statement, alternatives development and evaluation, and related public involvement activities.*

- HNTB conducted the 3<sup>rd</sup> Public Scoping Meeting at Port Isabel High School on February 26, 2009. There were 170 people who signed in. In preparation for this meeting HNTB prepared and mailed invitation postcards; developed an agenda, handouts, exhibits, powerpoint presentation and media notices; and coordinated the placement of changeable message board signs
- HNTB finalized all remaining deliverables including:
  - first drafts of Chapters 1, 2 (partial), and 3 of the DEIS,
  - Public Meeting summaries for Public Scoping Meetings 1 and 2
  - CSS summary report
  - Meeting minutes from TWGS and workshops
- This work authorization is complete. The next phase of the process: completion of the DEIS, public hearing, response to comments, and submission of an FEIS is pending approval of WA 17. This next phase also includes continuation of the Technical Working Groups (TWGs) and the Context Sensitive Solutions (CSS) process that have been so productive in Phase 2. To remain on schedule, this process must start immediately.

**SH 550 Re-Evaluation (Work Authorization No. 15):**

*This work authorization provides professional services and deliverables in support of the CCRMA's development of the SH 550 toll project from US 77/83 to State Highway 48 and the proposed entrance to the Port of Brownsville. Work includes the preparation of an Environmental Assessment Re-evaluation focusing on the effects of tolling the project, preparation of a wetlands report, and development of a mitigation plan/Section 404 permit application.*

- HNTB received review comments on the re-evaluation and wetlands report from TxDOT Pharr District Office on March 5, 2009.
- HNTB returned revised documents on March 16, 2009. The re-evaluation is currently being reviewed by TxDOT ENV. The wetlands report has been submitted to the U.S. Army Corps of Engineers along with a request for an expedited jurisdictional determination.
- HNTB has started development of the conceptual mitigation plan and permit. Coordination with the Corps of Engineers has been initiated to discuss permitting and mitigation.
- HNTB is also coordinating with C&B on their development of a traffic and revenue model. Richard Ridings, Paul Petrich, and Loretta Schietinger attend meetings and are responding to questions.

**Consultant Management:**

- Continued ongoing coordination with all subconsultants.
- Updated Progress Report Sheet that is utilized to provide project status to the CCRMA Board of Directors.

**Agency Coordination:**

- Conducted ongoing discussions with CCRMA staff, TxDOT staff, TTA staff and subconsultants for preparation of SPI 2<sup>nd</sup> Access Project, West Loop Project and West Rail Project.

- Conducted ongoing discussions with TxDOT staff and officials for the preparation of the CCRMA System CDA program.

Best regards,

Lamberto "Bobby" Balli, P.E.  
Associate Vice President

cc: David Garcia  
Robert Slimp, P.E.  
Richard Ridings, P.E.

# March Status Report

# HNTB

Project		North Rail Relocation		
Work Authorization	<input type="checkbox"/> 4	Route Studies and Environmental	WA Cost: \$	522,045.00
Supplemental	<input type="checkbox"/> 1	UPRR MOU Support	SA Cost: \$	23,883.00
Supplemental	<input type="checkbox"/>		SA Cost:	
			Total Cost: \$	545,928.00

**Description:** The North Rail Relocation project relocates the existing and operating freight rail lines away from incorporated and unincorporated areas of Cameron County, Texas, in particular in and around Harlingen, Texas. An effective relocation of the existing freight rail facility will not only improve freight rail operations to and from the US/Mexico border, but may aid in the enhancement of air quality for the area, improve the safety of the traveling public with regard to the freight rail/passenger interface, improve the response time of emergency vehicles, minimize in not eliminate the transport of hazardous material via freight rail through towns, improve traffic congestion and ultimately enhance the economic development of the region.

**Scope:** Develop Route and Environmental Studies for the Cameron County Regional Mobility Authority

**Deliverables:** A report that summarizes the assumptions, evaluation criteria and methodology, alternative analysis, and order of magnitude capital and construction costs. Conceptual Layout alternatives

## Project Activity

General Status:	Complete
Recent Activity:	assistance as requested
Upcoming Activity:	-
Outstanding Issues:	-

Task	Status	Date of Antipated Completion	% Complete
North Rail Data Assembly and Review	Complete	Complete	100%
Switch Relocation Analysis	Complete	Complete	100%
Conceptual Route Geometrics	Complete	Complete	100%
Funding Analysis	Complete	Complete	100%
Notice to Proceed	Complete	Complete	100%
Data Collection	Complete	Complete	100%
Alternative Analysis	Complete	Complete	100%
Field Investigations	Complete	Complete	100%
Constraints Map	Complete	Complete	100%
Social/Economic Investigations	Complete	Complete	100%
Natural Environment Investigation	Complete	Complete	100%
Cultural Resources	Complete	Complete	100%
Public Involvement	Complete	Complete	100%
Supp: Relocation of Rail Switching Operations	Complete	Complete	100%
WA Amount	\$ 545,928.00	Outstanding Invoice Number	Days Old
Billed To Date	\$ 545,928.00	22-40619-PL-004	357
Paid To Date	\$ 522,045.00	23-40619-PL-004	329
Unpaid Balance	\$ 23,883.00	28-40619-PL-004	210
Funding Source	City of Harlingen		
Total: \$			23,883.00

# March Status Report

# HNTB

Project		FM 509
Work Authorization	5	Route Studies and Environmental
Supplemental	1	ICI Analysis
Supplemental	2	Development of Reasonable Alternatives

WA Cost: \$	656,210.00
SA Cost: \$	40,358.00
SA Cost: \$	10,826.00
Total Cost: \$	707,394.00

**Description:** The FM 509 project is a relief route around the north and east areas of the City of Harlingen that would construct FM 509, in Cameron County, from US 77 to the intersection with FM 508. the proposed facility would consist of a four-lane roadway with directions of travel separated by a center median. Dependent upon traffic projections, an interim facility with fewer lanes may initially be constructed. Interchanges or grade separations would be constructed at major thoroughfares. As proposed, the right-of-way would be 300-foot wide (usual) and sufficient to accommodate future transportation needs; however, any future improvements would be subject to environmental review. This could include bicycle and pedestrian facilities, general purpose lanes, truck lanes or some combination of these modes.

**Scope:** Develop Route and Environmental Studies for the Cameron County Regional Mobility Authority.

**Deliverables:** Drawing of the Conceptual Corridor Alternatives. Line Diagrammatic Schematic Drawings. Environmental Assessment Document required for obtaining a Finding of No Significant Impact (FONSI)

## Project Activity

Status:	Environmental Assessment -Submitted to TxDOT ENV on January 12, 2009
Recent Activity:	None - awaiting comments
Upcoming Activity:	Respond to ENV comments - When Received
Outstanding Issues:	None

## Task Status Summary

Task	Status	Date of Antipated Completion	% Complete
FM 509 Data Assembly and Review	Complete	Complete	100%
FM 509 Route Alternative Studies	Complete	Complete	100%
FM 509 Development of Reasonable Alter.	Complete	Complete	100%
FM 509 Evaluation and Viable Alter.	Complete	Complete	100%
Notice to Proceed	Complete	Complete	100%
Data Collection	Complete	Complete	100%
Need and Purpose	Complete	Complete	100%
Alternatives Analysis	Complete	Complete	100%
Field Investigations	Complete	Complete	100%
Resource Agency Mtgs.	Ongoing	Complete	50%
Constraints map	Complete	Complete	100%
Social/Economic Investigations	Complete	Complete	100%
Natural Environment Investigations	Complete	Complete	100%
Cultural Resources	Under agency review	TBD	80%
Report Preparation	Awaiting ENV comments	TBD	90%
Public Involvement	Public hearing forthcoming	6/30/2009	60%
Supp 1: Envir. Assessment Doc. Prepar.	Complete	Complete	100%
Supp 1: Indirect Impacts	Complete	Complete	100%
Supp 1: Cumulative Impacts	Complete	Complete	100%
Supp 1: Surveying/Mapping	Complete	Complete	100%
Supp 1: Light Detection and Ranging	Complete	Complete	100%
Supp 2: Deve. Reasonable Alternatives	Complete	Complete	100%
WA Amount:	\$ 707,394.00	Outstanding Invoice Number	Days Old
Billed To Date:	\$ 643,728.54		Invoice Amount
Paid To Date:	\$ 643,728.54		
Unpaid Balance:	\$ -		
Funding Source:	Cameron County		
Total: \$ -			

# March Status Report

# HNTB

Project	West Loop
Work Authorization	<input checked="" type="checkbox"/> 7 Route Studies and Environmental
Supplemental	<input checked="" type="checkbox"/> 1 Public Involvement and ENV
Supplemental	<input type="checkbox"/>

WA Cost: \$	1,471,763.00
SA Cost: \$	98,862.00
SA Cost:	
Total Cost: \$	1,570,625.00

**Description:** The West Loop Road project is a proposed new location, four-lane controlled access expressway with interchanges and connections at strategic locations and grade separation structures for several crossing streets in Brownsville. The majority of the project alignment falls within or in the vicinity of the existing Union Pacific Railroad right-of-way. Negotiations are underway to relocate the railroad and donate the right-of-way to the county for the project.

**Scope:** Develop Route and Environmental Studies for the Cameron County Regional Mobility Authority

**Deliverable:** Develop Route and Environmental Studies for the Cameron County Regional Mobility Authority. Conceptual typical sections Summary of preliminary conceptual design criteria. Overlay of identified major utilities onto conceptual layouts. Overlay of conceptual ROW requirements onto conceptual layouts. Final Traffic Technical Memorandum. Draft and Final Intermediate Level (Level 2) Toll Feasibility Report (Level 2 funding matrix. Environmental Assessment Document required for obtaining a Finding of No Significant Impact (FONSI)

## Project Activity

Status:	EA on hold - pending results of additional public outreach/informed consent process
Recent Activity:	EA - draft prepared. On hold pending additional public involvement. Public Meeting Report - prepared/in QC process
Upcoming Activity:	EA submission - TBD, contingent upon possible additional public involvement Public Meeting Report submission
Outstanding Issues:	A proposed Scope and Fee has been submitted to CCRMA staff for additional public outreach/ informed Consent activities

Status:	Continued efforts on the preferred alternatives
Recent Activity:	On Hold
Upcoming Activity:	On Hold
Outstanding Issues:	-

Status:	On Hold
Recent Activity:	Development of the travel demand model and toll diverted traffic numbers are complete
Upcoming Activity:	Complete Microsimulation on preferred alternative
Outstanding Issues:	-

Task	Status	Date of Anticipated Completion	% Complete
Conceptual Design	Complete	Complete	100%
Intermediate-level (level 2) Toll Feasibility	Draft Level 2 TFS complete	2/15/2009	80%
Innovative Financing Support	Ongoing	3/15/2009	20%
Traffic Analysis and Microsimulation	On hold	TBD	80%
Geometric Schematic	On hold	TBD	60%
Environmental Assessment Report	On hold	TBD	80%
West Loop Public Involvement Activities	On hold	TBD	70%
Surveying and Aerial Mapping	Complete	Complete	100%
Surveying	Complete	Complete	100%
Aerial Mapping	Complete	Complete	100%
Right of Entry	Complete	Complete	100%
Supp 1: Inter.Level Toll Feasibility Study	Complete	Complete	100%
Supp 1: Environmental Assessment	On hold	TBD	80%
Supp 1: Public Involvement	Pending additional meetings	TBD	80%

WA Amount	\$	1,570,625.00	Outstanding Invoice Number	Days Old	Invoice Amount
Billed to Date	\$	1,395,244.40	29-40619-PL-007	175	\$ 45,158.80
Part to Date	\$	1,295,229.49	31-40619-PL-007	119	\$ 4,068.52
Unpaid Balance	\$	100,014.91	32-40619-PL-007	84	\$ 40,795.68
			33-40619-PL-007	56	\$ 9,991.91
Pending Source:	TxDOT Toll Equity Funding				
Total:		\$			100,014.91



# March Status Report

# HNTB

Project		West Rail Relocation
Work Authorization	8	International Advisor Services
Supplemental	1	International Advisor Services
Supplemental	2	International Advisor Services

WA Cost: \$	186,579.00
SA Cost: \$	67,264.00
SA Cost: \$	67,163.00
SA Cost: \$	67,163.00
Total Cost: \$	388,169.00

**Description:** The West Rail Relocation project provides appropriate subconsultant (s) for staff coordination with the Mexican agencies to monitor and determine project schedules, permit requirements, funding technical agreements and design for the West Rail Relocation around Brownsville, Texas. This subconsultant is Arturo de las Fuentes of Caminos Y Puentes Internacionales. The project plans will require approval by Secretaria de Comunicaciones y Transportes (SCT), Comision Internacional de Limits Y Aguas (CILA) and Kansas City Southern Mexico (KCSM).

**Scope:** Provide professional services and deliverables required for project administration and coordination for the Cameron County Regional Mobility Authority

**Deliverable:** Monthly Project Progress Reports and meeting minutes that details activities performed by task (Spanish and English versions will be provided). Monthly invoice/billings with list of tasks performed and products delivered per invoice billing cycle (English version will be provided). Project schedule and timeline for agency approval (Spanish and English version will be provided).

## Project Activity

Status:	-
Recent Activity:	-
Upcoming Activity:	-
Outstanding Issues:	-
Status:	-
Recent Activity:	-
Upcoming Activity:	-
Outstanding Issues:	-
Status:	Continued efforts on project administration and coordination
Recent Activity:	Coordination of Mexican Agencies and presentation of Project Report to the Binational Committee -
Upcoming Activity:	Continued efforts on project administration and coordination
Outstanding Issues:	-

Task		Status	Date Anticipated Completion	% Complete
International Services		Continuing	Continuing	90%
WA Amount:	\$ 388,169.00	Outstanding Invoice Number:	Days Old	Invoice Amount
Billed To Date:	\$ 354,010.13			
Paid To Date:	\$ 354,010.13			
Unpaid Balance:	\$ -			
Funding Source:	Cameron County			
		Total: \$ -		

# March Status Report

# HNTB

Project		South Padre Island Second Access
Work Authorization	12	Route Studies and Environmental
Supplemental	1	Economic Study
Supplemental		

WA Cost: \$	1,211,320.00
SA Cost: \$	339,518.00
SA Cost:	
Total Cost: \$	1,550,838.00

**Description:** The South Padre Island Second Access project provides engineering and environmental services associated with the development and advancement of the National Environmental Policy Act (NEPA) process. The tasks associated with the project will include the development of an environmental impact statement, alternatives development and evaluation, and related public involvement activities.

**Scope:** Develop Route and Design, Environmental, Public Involvement, Field Surveying and Photogrammetry studies.

**Deliverable:** Effort involved in conducting three Public Meetings and associated TWG meetings listed in Project Development Plan and as approved in Phase 2. Preliminary Study Methodology Memorandum. Draft and final preliminary alternative layouts. Draft and final conceptual typical sections and layouts of the reasonable corridor alternatives. Draft technical memorandum. Existing Conditions Assessment summary document. Data Collection Summary Document. Writing of initial Chapters of the NEPA Document.

## Project Activity

<b>Status:</b>	3rd public meeting complete
<b>Recent Activity:</b>	Submitted DEIS Chapters 1, 2 (partial) and 3; Submitted reports for Public Scoping Meetings 1 and 2; Submitted CSS summary report; various meeting summaries completed and submitted; Economic TWG held
<b>Upcoming Activity:</b>	Work Authorization is complete - Awaiting approval for Phase 3 efforts.
<b>Outstanding Issues:</b>	Phase 3 authorization needed for continued work and to remain on schedule

<b>Status:</b>	Reasonable alternatives identified and presented at workshops and public meeting
<b>Recent Activity:</b>	Work Authorization is complete - Awaiting approval for Phase 3 efforts.
<b>Upcoming Activity:</b>	Phase 3 work
<b>Outstanding Issues:</b>	Authorization for phase 3

<b>Status:</b>	Submitted Economic Study
<b>Recent Activity:</b>	Work Authorization is complete - Awaiting approval for Phase 3 efforts
<b>Upcoming Activity:</b>	Phase 3 work
<b>Outstanding Issues:</b>	Authorization for phase 3

Task	Status	Date of Anticipated Completion	% Complete
Data Collection/Existing Condition Assessment	Complete	complete	100%
Corridor Alter. Assessment & Documentation	Complete	complete	100%
Intermediate-Level Toll Feasibility Study	Methodology complete	complete	100%
Economic Study Phase 2	Complete	complete	100%
Environmental Impact Statement (EIS) Phase 2	Chapters 1,2,3 complete	complete	100%
Affected Environmental	Draft complete	complete	100%
Environmental Consequences	Not in Phase 2	complete	100%
Public Involvement and CSS	Complete	complete	100%
Field Surveying and Photogrammetry	Complete	Complete	100%
<b>WA Amount</b>	\$ 1,550,838.00	<b>Outstanding Invoice Number</b>	<b>Days Old</b>
<b>Billed To Date:</b>	\$ 1,423,601.12	29-40619-PL-012	175
<b>Paid To Date:</b>	\$ 921,334.44	30-40619-PL-012	147
<b>Unpaid Balance:</b>	\$ 502,266.68	31-40619-PL-012	141
		32-40619-PL-012	84
		33-40619-PL-012	56
<b>Funding Source:</b>	TxDOT Toll Equity Funding	35-40619-PL-012	28
<b>Total:</b>			\$ 502,266.68

# March Status Report

# HNTB

Project	Request for Statements of Interest			
Work Authorization	<input checked="" type="checkbox"/> 14	Professional Technical Services	WA Cost: \$	299,496.00
Supplemental	<input checked="" type="checkbox"/> 1	Coordination and Publication	SA Cost: \$	18,446.00
Supplemental	<input type="checkbox"/>		SA Cost:	
			Total Cost: \$	317,942.00

**Description:** The Request for Statements of Interest project provides professional technical services associated with the development of request for statements of interest (RFI) and qualifications from firms to provide strategic partnership/investor opportunities for the proposed CCRMA projects located in Cameron County, Texas; as well as, provide recommendations for the selection of projects that the CCRMA could pursue through a separate CDA procurement process.

**Scope:** Provide professional technical services associated with the development of request for statements of interest (RFI) and qualifications from firms to provide strategic partnership/investor opportunities for the proposed AUTHORITY projects located in Cameron County, Texas; as well as, provide recommendations for the selection of projects that the AUTHORITY could pursue through a CDA procurement process.

**Deliverable:** Program development schedule. Recommendations for the selection of projects that the AUTHORITY could pursue through a separate CDA procurement process.

Project Activity	
Status:	-
Recent Activity:	-
Upcoming Activity:	-
Outstanding Issues:	-
Status:	-
Recent Activity:	-
Upcoming Activity:	-
Outstanding Issues:	-
Status:	Project finalized
Recent Activity:	Final revisions placed on hold pending a decision to pursue the CCRMA System CDA
Upcoming Activity:	-
Outstanding Issues:	-

Task	Status	Date of Anticipated Completion	% Complete
Notice to Proceed	Complete	Complete	100%
Project Admin., Coordination & Seminar	Complete	Complete	100%
RFI Letter	Complete	Complete	100%
Prepare Map and List of Authority Projects	Complete	Complete	100%
Inquiries/Responses	Complete	Complete	100%
CDA Constructor Opportunity Workshop	Complete	Complete	100%
Review/Evaluations/Deliverables	Ongoing	TBD	25%
Deliverables:	None		
WA Amount	\$ 317,942.00	Outstanding Invoice Number	Days Old
Billed To Date	\$ 317,942.00	31-40619-PL-014	119
Paid To Date	\$ 306,917.46		
Unpaid Balance	\$ 11,024.54		
Funding Source	County License Plate Fees		
		Total: \$	11,024.54

# March Status Report

# HNTB

Project SH 550 Re-Evaluation  
 Work Authorization ☒ 15 Environmental Studies  
 Supplemental ☐   
 Supplemental ☐

WA Cost: \$ 402,102.00  
 SA Cost:   
 SA Cost:   
 Total Cost: \$ 402,102.00

**Description:** The SH 550 Re-Evaluation project provides professional services and deliverables in support of the CCRMA's development of the SH 550 toll project from US 77/83 to SH 48 and the proposed entrance to the Port of Brownsville. The focus of the re-evaluation will be on the effects of tolling the project.

**Scope:** Project Management and Social, Economic and Environmental studies for the AUTHORITY. Environmental Activity necessary for obtaining Re-evaluation clearance for a tolled roadway

**Deliverable:** Environmental Activity necessary for obtaining Re-evaluation clearance for a tolled roadway

## Project Activity

Status:	EA Re-evaluation – under review by TxDOT (ENV) ; Wetlands Report – under review by US Army Corps of Engineers; Conceptual Wetlands mitigation and Corps permit application underway
Recent Activity:	Received comments from TxDOT (Pharr) on re-evaluation on March 6. Revised document re-submitted on March 16. Wetland report comments received on March 6. Revised document re-submitted on March 13. Permit development and Corps coordination underway.
Upcoming Activity:	Joint Evaluation Meeting with Corps of Engineers tentatively scheduled for May 5, 2009 Public Meeting Report submission
Outstanding Issues:	Tolling design and implementation must begin ASAP to address overpass at FM 1847.

Status:	TxDOT is 50% complete with design plans
Recent Activity:	GEC preparing WA for Toll gantry design and system implementation
Upcoming Activity:	-
Outstanding Issues:	-

Status:	-
Recent Activity:	-
Upcoming Activity:	-
Outstanding Issues:	-

Task	Status	Date of Anticipated Completion	% Complete
Environmental Assessment Doc. Preparation	under ENV review	TBD	90%
Wetland Delineation, Permitting and Mitigation	ongoing coordination with Corps	TBD	60%
Public Involvement	Open house report under review	4/1/2009	95%
WA Amount	\$ 402,102.00	Outstanding Invoice Number	Days Old
Billed To Date	\$ 297,354.43	Invoice Amount	
Paid To Date	\$ 297,354.43		
Unpaid Balance	\$ -		
Funding Source	County License Plate Fees		
Total:		\$	-

**IV. CONSIDERATION AND APPROVAL OF REVENUE  
AND EXPENSE REPORT FOR MARCH 2009**

[illegible]

**Cash Disbursement Journal By GL**  
**From 03/01/2009 To 03/31/2009**

1101108

<u>Fund Dept</u>	<u>LnItem</u>	<u>PEID</u>	<u>Vendor Name</u>	<u>Check #</u>	<u>Check Date</u>	<u>Post Date</u>	<u>PO #</u>	<u>Invoice #</u>	<u>Amount</u>
110 1108	6082	0000168714	HNTB	00215947	03/05/2009	03/05/2009	P134960	34-40619-PL-008	22,135.40
								<b>Check Total</b>	22,135.40
110 1108	6082	0000160653	HNTB CORP	00216383	03/13/2009	03/13/2009	P134960	35-40619-PL-008	10,868.73
								<b>Check Total</b>	10,868.73
								<b>Line Item Total</b>	33,004.13
								<b>Dept. Total</b>	33,004.13

Cash Disbursement Journal By GL

1101114

From 03/01/2009 To 03/31/2009

Vendor Name

Check  
Date

PO #

Invoice #

Amount

PEID

Fund Dept LnItm  
RFI-COMP DEVELOPMEN

110 1114 6042

00216383 03/13/2009 03/13/2009 P127675 35-40619-PL-014

2,424.54

**Check Total**

2,424.54

**Line Item Total**

2,424.54

**Dept. Total**

2,424.54




**V. CONSIDERATION AND APPROVAL OF AN INTERLOCAL  
AGREEMENT BETWEEN CCRMA AND CAMERON COUNTY  
FOR THE FM 509 PROJECT**


)  
)  
)

# INTERLOCAL COOPERATION AGREEMENT

1. LOCATION OF PROJECT: Harlingen/San Benito, Cameron County, Texas
2. PROJECT TO BE COMPLETED: for the CCRMA to develop the Environmental Assessment, Right of Way acquisition, Design & Engineering and the construction of the extension of FM 509 from FM 508 to Expressway 77, a distance of approximately ten miles.
3. The cost for the development of the Project will be the responsibility of the CCRMA.
4. This agreement constitutes a one-time agreement between the parties and does not constitute a continuing agreement of the subject project.
6. The rules, regulations and orders of COUNTY shall govern this agreement and the parties agree the COUNTY shall supervise the performance of this agreement.
7. The 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. This agreement shall terminate when the application is prepared and submitted to the Texas Department of Transportation.

Attested by:

  
\_\_\_\_\_  
Carlos H. Cascos, CPA  
County Judge

  
David E. Alex, Chairman  
CCRMA

**V. CONSIDERATION AND APPROVAL OF RESOLUTION  
AUTHORIZING THE CHAIRMAN OF THE CAMERON  
COUNTY REGIONAL MOBILITY AUTHORITY TO SUBMIT  
AN APPLICATION FOR PASS THROUGH FINANCING  
FOR THE EAST LOOP PROJECT**

STATE OF TEXAS  
COUNTY OF CAMERON

§  
§

## RESOLUTION

**BE IT REMEMBERED**, that on the 16<sup>th</sup> day of April, 2009, at a meeting of the RMA Board of Directors, the following Resolution was Offered and Adopted, to wit:

**WHEREAS**, the 78<sup>th</sup> Texas Legislature passed HB 3588 authorizing the Texas Department of Transportation (TxDOT) to enter into an agreement with a public entity that provides for the payment of pass-through financing to a public entity as reimbursement for the construction, maintenance, or operation of a toll or non-toll facility on the state highway system by the public entity, and;

**WHEREAS**, the Texas Transportation Commission has adopted rules regarding the policies and procedures governing the department's implementation of the pass-through financing program, and;

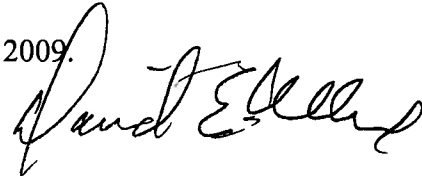
**WHEREAS**, the Regional Mobility Authority has identified a project suitable for development under TxDOT's pass-through financing program, identified as East Loop Project;

**WHEREAS**, this project is in support of the Cameron County Regional Mobility Authority's strategic plan, and the Brownsville MPO Plan.

**WHEREAS**, CCRMA wants to insure that its state highway transportation and safety needs are addressed in a timely manner.

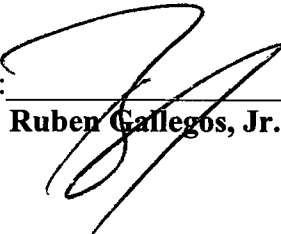
**NOW, THEREFORE, BE IT RESOLVED** that the Chairman of the CCRMA is authorized to submit a pass-through financing application to the Texas Department of Transportation incorporating these needed state system projects, and that the CCRMA requests the Texas Transportation Commission's timely review and approval of the County's program of pass-through financing projects.

Passed, Approved and Adopted on this 16<sup>th</sup> day of April, 2009.



David E. Alex, Chairman

Attest:



Ruben Gallegos, Jr., Secretary

**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 13 WITH HNTB FOR THE  
PROJECT DEVELOPMENT AGREEMENT  
COORDINATION AND NEGOTIATION SUPPORT**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**  
General Engineering Consultant Services

**WORK AUTHORIZATION NO. 13**  
PDA Coordination and Negotiation Support

This Work Authorization No. 13 is made pursuant to the terms and conditions of the Base Contract, effective February 16, 2006, hereinafter identified as the "Agreement", entered into by and between Cameron County Regional Mobility Authority (the "AUTHORITY"), and HNTB Corporation (the "GEC TEAM").

**Part 1.** The GEC TEAM will provide the following engineering services:

The purpose of this task is to support the Authority and its Legal and Financial Advisors in the development of a Project Development Agreement (PDA) between the Authority and TxDOT concerning the development of the Port Spur, West Loop, and US 77 Improvements projects. These projects are part of a Comprehensive Development Agreement (CDA) between TxDOT and Zachry American Infrastructure and ACS Infrastructure Development (ZAI-ACS) for the IH 69 Corridor. The responsibilities of the AUTHORITY, the GEC TEAM and the schedule are further detailed in Exhibits A, B, C and D.

**Part 2.** The compensation to be paid for the performance of the Services identified in Exhibit B is based upon direct salary cost times a multiplier as defined in the Agreement. Total compensation, including subconsultant costs and direct expenses, will not exceed **\$790,903** unless mutually agreed to and authorized in writing by the Authority. A fee schedule used to establish the maximum amount payable is attached hereto as Exhibit D. HNTB may alter the compensation distribution between the phases, tasks and work assignments to be consistent with the Services actually rendered, within the total not to exceed amount.

**Part 3.** Payment to the GEC TEAM for the services established under this Work Authorization No. 13 shall be made in accordance with the Agreement.

**Part 4.** This Work Authorization No. 13 is effective as of April 1, 2009 and shall terminate October 31, 2009, unless extended by a Supplemental Work Authorization.

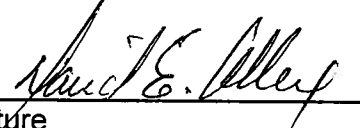
**Part 5.** This Work Authorization No. 13 does not waive the parties' responsibilities and obligations provided under the Agreement.

**Part 6.** This Work Authorization No. 13 is hereby accepted and acknowledged below.

GEC TEAM:  
HNTB Corporation

AUTHORITY:  
Cameron County Regional Mobility Authority

By:   
Signature

By:   
Signature

Robert J. Slimp, P.E.  
Printed Name

David E. Allen  
Printed Name

Vice President  
Title

Chairman  
Title

4/14/09  
Date

4-17-9  
Date

LIST OF EXHIBITS

- Exhibit A - Services to be Provided by the Authority
- Exhibit B - Services to be Provided by the Consultant
- Exhibit C - Work Schedule
- Exhibit D - Fee Schedule

**EXHIBIT A**  
**SERVICES TO BE PROVIDED BY THE AUTHORITY**  
PDA COORDINATION AND NEGOTIATION SUPPORT

County : Cameron  
Highway : US 77, West Loop, Port Spur

In addition to the services listed in the Agreement, the AUTHORITY will provide the following services:

1. The AUTHORITY shall authorize the GEC TEAM in writing to proceed.
2. The AUTHORITY will support the GEC TEAM in obtaining project documents pertinent to the PDA coordination and negotiation.
3. The AUTHORITY will support the GEC TEAM in scheduling project related meetings with TxDOT and FHWA.
4. The AUTHORITY, under separate contract, will provide legal, financial, and traffic and revenue consultants to assist the GEC TEAM in the PDA coordination and negotiation.
5. The AUTHORITY shall advise the GEC TEAM of the identity and scope of services of any independent consultants retained by the AUTHORITY to provide services in regard to the project.
6. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY shall communicate this to the GEC TEAM and allow project schedule to be adjusted accordingly.



**EXHIBIT B**  
**SERVICES TO BE PROVIDED BY THE CONSULTANT**  
Cameron County Regional Mobility Authority

**Scope of Project**

The CONSULTANT shall furnish technical resources and materials required to perform the following services for this Work Authorization No. 13:

PDA Coordination and Negotiation Support: The purpose of this task is to support the Authority and its Legal and Financial Advisors in the development of a Project Development Agreement (PDA) between the Authority and TxDOT concerning the development of the Port Spur, West Loop, and US 77 Improvements projects. These projects are part of a Comprehensive Development Agreement (CDA) between TxDOT and Zachry American Infrastructure and ACS Infrastructure Development (ZAI-ACS) for the IH 69 Corridor.

The PDA will clarify the Authority's intent to operate the toll collection for the Port Spur and the West Loop and clearly describe the revenue sharing methodology to be dedicated for IH 69.

**SCOPE OUTLINE:**

**TASK 1 – PDA Coordination and Negotiation Support (FC 110)**

**Subtask 1.01 – General Administration**

**Subtask 1.02 – ZAI-ACS Proposal and CDA Review**

**Subtask 1.03 – Project Development Agreement (PDA) Support**

**SCOPE DETAILS:**

**TASK 1 – PDA Coordination and Negotiation Support – FC 110**

The following Scope of Work describes the task details that are included in the Services to be provided by the CONSULTANT in support of the Authority's development of a Project Development Agreement with TxDOT concerning the development of Port Spur, West Loop, and US 77 Improvements projects as part of the Comprehensive Development Agreement between TxDOT and Zachry American Infrastructure and ACS Infrastructure Development (ZAI-ACS) for the IH 69 Corridor

**Subtask 1.01 – General Administration**

The CONSULTANT 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.

## **Work Authorization No. 13**

- 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 C, Project Schedule; and should these reviews indicate a substantial change in progress, the schedule will then be revised accordingly.

### **Deliverables:**

- Monthly progress report that delineates activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle

### **Subtask 1.02 – Technical Proposal and CDA Review**

The CONSULTANT will obtain a copy of the ZAI-ACS Proposal (Proposal) and TxDOT's IH 69 Corridor Comprehensive Development Agreement (CDA). The Proposal and CDA will be reviewed to identify those issues that involve or impact the planning, development, construction, operations, tolling, and management of the Port Spur, West Loop, and US 77 improvement projects (Projects).

- A) Review the Proposal and CDA for Design and Specification requirements as they relate the Authority's projects including but not limited to:
  - Proposal Commitments
  - Agreement Requirements
  - Compliance with Standards
  - Toll Collection and Violation Enforcement

- Public involvement efforts
  - Environmental clearances
- B) Review the Proposal and CDA for special terms and risk assessment including but not limited to:
- ROW acquisition process
  - Schedule/ Milestones/ Incentives/Liquidated Damages
  - Oversight and Review process
  - Dispute resolution process
  - Revenue Sharing

**Deliverables:**

- Memo of findings and recommendations

**Subtask 1.03 – Project Development Agreement (PDA) Support**

The CONSULTANT shall provide support to the Authority and its legal and financial advisors in the development of a Project Development Agreement (PDA) with TxDOT which outlines the responsibilities and requirements of the participating parties in the development of the Projects.

- A) Coordinate and participate in meetings with TxDOT, ZAI-ACS, financial and legal Advisors, T&R specialist, and the Authority (up to 20 meetings) including:
- Agenda Preparation
  - Presentation materials
  - Meeting minutes
- B) Provide draft text for inclusion in the PDA (to be prepared by others) and review final text :
- Draft text for Design and Construction Technical requirements
  - Draft text for Operations and Tolling Obligations
  - Draft text for oversight, maintenance and reporting requirements
  - Final PDA review and comment
  - Develop presentation material for Commission and MPO

**Deliverables:**

- Agendas and meeting minutes
- Draft text for PDA
- Reviews of draft PDA
- Presentation materials

# Exhibit C - Work Schedule

Work Authorization No. 13  
Exhibit C

ID	Task Name	Duration	Start	Finish	CP 1 2009	CP 2 2009	CP 3 2009	Apr	May	June	July	Aug	Sept	Oct
1	Project Development Agreement Support - West Loop/SH 550	120 days	Thu 4/16/09	Wed 9/30/09	3/28	4/5	4/12	4/19	4/26	5/3	5/10	5/17	5/24	5/31
2	General Administration	120 days	Thu 4/16/09	Wed 9/30/09										
3	A) Subcontracting	20 days	Thu 4/16/09	Wed 5/13/09										
4	B) Prepare Monthly Invoices/Progress Reports/ Presentations	120 days	Thu 4/16/09	Wed 9/30/09										
5	C) Record Keeping and File Management	120 days	Thu 4/16/09	Wed 9/30/09										
6	D) Correspondence	120 days	Thu 4/16/09	Wed 9/30/09										
7	E) Schedule	120 days	Thu 4/16/09	Wed 9/30/09										
8	F) Managing Change	120 days	Thu 4/16/09	Wed 9/30/09										
9	ZIA-ACS Proposal and CDA Review	40 days	Thu 4/16/09	Wed 6/10/09										
10	Design Review	40 days	Thu 4/16/09	Wed 6/10/09										
11	Specification Review	40 days	Thu 4/16/09	Wed 6/10/09										
12	CDA requirements/ terms review/ Risk Assessment	40 days	Thu 4/16/09	Wed 6/10/09										
13	Project Development Agreement Support	120 days	Thu 4/16/09	Wed 9/30/09										
14	Meetings (weekly for 6 months)	120 days	Thu 4/16/09	Wed 9/30/09										
15	Draft Technical Requirements/ Obligations	40 days	Mon 5/4/09	Fri 6/26/09										
16	Draft Operations/ Tolling Obligations	40 days	Mon 5/4/09	Fri 6/26/09										
17	Draft Reporting/Maintenance Obligations	40 days	Mon 5/4/09	Fri 6/26/09										
18	Final Reviews, Recommendations, and presentations	40 days	Mon 6/29/09	Fri 8/21/09										

# EXHIBIT D

## Cameron County Regional Mobility Authority Project Development Agreement Support - West Loop/SH 550

### SUMMARY

TASK	TASK/DESCRIPTION		
		Hours	Amount
Task 1 PDA Coordination and Negotiation Support			
1.01	General Administration (FC 110)		
	A) Subcontracting	25	\$ 3,587
	B) Prepare Monthly Invoices/Progress Reports/ Presenatations	346	\$ 41,755
	C) Record Keeping and File Management	220	\$ 28,527
	D) Correspondence	212	\$ 37,343
	E) Schedule	36	\$ 5,906
1.02	ZIA-ACS Proposal and CDA Review (FC 110)		
	Design Review	440	\$ 77,585
	Specification Review	440	\$ 77,585
	CDA requirements/ terms review/ Risk Assessment	200	\$ 50,608
1.03	Project Development Agreement Support (FC 110)		
	Meetings (weekly for 6 months)	436	\$ 95,346
	Draft Technical Requirements/ Obligations	360	\$ 76,529
	Draft Operations / Tolling Obligations	220	\$ 51,694
	Draft Reporting/Maintenance Obligations	220	\$ 51,694
	Final Reivews, Recommendations, and presentations	520	\$ 123,703
	Subtotal Labor	3,675	\$ 721,862
	HNTB Expenses		\$ 69,041
Labor and Expenses			\$ 790,903

# EXHIBIT D

## Cameron County Regional Mobility Authority Task 1 PDA Coordination and Negotiation Support HNTB Corporation

TASK	TASK/DESCRIPTION	Senior Tech Advisor	Project Principal	Project Director	Senior Engineer	Project Engineer	Proj Admin	Clerical	TOTAL HOURS	TOTAL LABOR
1.01	General Administration (FC 110)									
	A) Subcontracting		1	8					25	\$3,587
	B) Prepare Monthly Invoices/Progress Report Presentations		2	48	48				346	\$41,755
	C) Record Keeping and File Management		8	8	20	192	240	8	220	\$29,527
	D) Correspondence	4	8	104	46	18		34	212	\$37,343
	E) Schedule			4	24	8			36	\$5,906
1.02	21A-ACS Proposal and CDA Review (FC 110)									
	A) Design Review	40	80	20	140	160			440	\$77,585
	B) Specification Review	40	80	20	140	160			440	\$77,585
	C) CDA requirement terms review/Risk Assessment	80	80	40					200	\$35,000
1.03	Project Development Agreement Support (FC 110)									
	Meetings (Weekly for 6 months)	100	100	100	96	40			436	\$95,348
	Draft Technical Requirements/Obligations	80	80	40	120			20	360	\$76,529
	Draft Operations / Tolling Obligations	80	80	40				20	220	\$51,684
	Draft Reporting/Maintenance Obligations	80	80	40				20	220	\$51,684
	Final Reviews, Recommendations, and presentations	160	160	100	80				520	\$123,703
	TOTAL - Manhours	664	788	672	716	640	252	102	3876	\$721,882
	BASE LABOR RATE	\$100.00	\$78.00	\$75.00	\$57.50	\$41.50	\$31.50	\$18.50		
	OVERHEAD @ 155.26%	\$155.26	\$121.10	\$116.45	\$89.27	\$64.43	\$48.91	\$28.72		
	BASE LABOR RATE + APPLIED OH	\$255.26	\$199.10	\$191.45	\$146.77	\$105.93	\$80.41	\$47.22		
	PROFIT @ 15%	\$38.29	\$29.87	\$28.72	\$22.02	\$15.88	\$12.06	\$7.08		
	TOTAL LABOR RATE (DIRECT LABOR + OH + PROFIT)	\$293.55	\$228.97	\$220.17	\$168.79	\$121.82	\$92.47	\$54.30		
	Subtotal - Labor	\$184,817	\$180,657	\$125,937	\$120,654	\$70,656	\$23,302	\$5,539		\$721,882
	FTE	0.7	0.8	0.6	0.6	1.8	0.3	0.1		
	Over 6 months		6 months	6 months	2 months	2 months	6 months	6 months		
	EXPENSES									
	Travel									
	Airfare (Lowest available coach fare)	ROUNDTRIP	12	\$350.00	\$4,200.00					
	Automobile Mileage	MILE	1,000	\$0.550	\$550.00					
	Lodging "x" tax	DAY	12	\$45.00	\$540.00					
	Rental Vehicle "x" tax	DAY	12	\$50.00	\$600.00					
	Airport Parking	DAY	12	\$13.00	\$156.00					
	Per Diem	DAY	12	\$36.00	\$432.00					
	Subtotal				\$4,958.00					
	Printing/Reproductions									
	BAW Copies 8.5" x 11" (Unless already included in overhead)	EA	1,000	\$0.700	\$700.00					
	Color Copies 8.5" x 11" (Unless already included in overhead)	EA	500	\$0.78	\$390.00					
	Color Copies 11" x 17" (Unless already included in overhead)	EA	250	\$1.55	\$387.50					
	Plots	EA		\$20.00						
	Color Plots	EA		\$1.64						
	DVD's	EA	5	\$1.00	\$5.00					
	Exhibit Boards	EA	20	\$5.00	\$100.00					
	Reproduce Plan Sets	SQ FT		\$7.35						
	Subtotal				\$1,582.50					
	Subconsultant - Prime Strategies									
	Subtotal									
	Delivery									
	Courier, Overnight, Deliveries, Postage	LS	20	\$25.00	\$500.00					
	Subtotal									
	Total Expenses									\$69,040.59

WM13 Exhibit D - Fee.xls

**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 16 WITH HNTB FOR THE  
WEST RAIL PROJECT**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**  
General Engineering Consultant Services

**WORK AUTHORIZATION NO. 16**  
WEST RAIL DESIGN

This Work Authorization No. 16 is made pursuant to the terms and conditions of the Base Contract, effective February 16, 2006, hereinafter identified as the "Agreement", entered into by and between Cameron County Regional Mobility Authority (the "AUTHORITY"), and HNTB Corporation (the "CONSULTANT").

**Part 1.** The CONSULTANT will provide the following engineering services:

Perform utility, field surveying and signalization tasks for the AUTHORITY. The responsibilities of the AUTHORITY, the CONSULTANT and the schedule and fee are further detailed in Exhibits A, B, C and D.

**Part 2.** Without modification, the maximum amount payable under this Lump Sum Work Authorization No. 16 is **\$179,683.00**. A fee schedule used to establish the maximum amount payable is attached hereto as Exhibit D.

**Part 3.** Payment to the CONSULTANT for the services established under this Work Authorization No. 16 shall be made in accordance with the Agreement.

**Part 4.** This Work Authorization No. 16 is effective as of November 1, 2008 and shall terminate July 31, 2009, unless extended by a Supplemental Work Authorization.

**Part 5.** This Work Authorization No. 16 does not waive the parties' responsibilities and obligations provided under the Agreement.



**Part 6.** This Work Authorization No. 16 is hereby accepted and acknowledged below.

CONSULTANT:  
HNTB Corporation

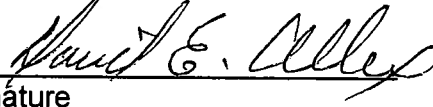
AUTHORITY:  
Cameron County Regional Mobility Authority

By:   
Signature

Robert J. Slimp, P.E.  
Printed Name

Vice President  
Title

4/14/09  
Date

By:   
Signature

David E. Allen  
Printed Name

Chairman  
Title

4-17-9  
Date

LIST OF EXHIBITS

- Exhibit A - Services to be Provided by the Authority
- Exhibit B - Services to be Provided by the Consultant
- Exhibit C - Work Schedule
- Exhibit D - Fee Schedule

**EXHIBIT A**  
**SERVICES TO BE PROVIDED BY THE AUTHORITY**  
WEST RAIL DESIGN

County : Cameron  
Highway : West Rail

In addition to the services listed in the Agreement, the AUTHORITY will provide the following services:

1. The AUTHORITY shall authorize the CONSULTANT in writing to proceed.
2. The AUTHORITY shall advise the CONSULTANT of the identity and scope of services of any independent consultants retained by the AUTHORITY to provide services in regard to the project.
3. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY shall communicate this to the CONSULTANT and allow project schedule to be adjusted accordingly.
4. The AUTHORITY shall provide the CONSULTANT any copies of relevant information with regards to this project.
5. The AUTHORITY is responsible for all grade crossing signal design, coordination with the railroad for signal design approval, estimates and utility requirements. The AUTHORITY will provide the CONSULTANT any/all signal design and specifications and estimates for inclusion with the project's plans, specifications and estimates (PS&E).

**EXHIBIT B**  
**SERVICES TO BE PROVIDED BY THE CONSULTANT**  
WEST RAIL DESIGN

County : Cameron  
Highway : West Rail

**PROJECT UNDERSTANDING AND GOALS**

The purpose of this project is to complete plans, specifications and estimates for the relocation of the Union Pacific Railroad (UPRR) main track to a new alignment and a new international bridge crossing over the Rio Grande River into Mexico.

The CONSULTANT, under this Work Authorization No. 16, will provide for the completion of tasks listed in Exhibit B in this attachment. These additional items were not included in the Cameron County West Railroad Project Final Design and Construction Phase May 2004 scope document for the proposed West Rail project in Cameron County, Texas. The proposed project will provide a new alignment for the UPRR to be located west of the City of Brownsville.

Services to be provided by the CONSULTANT will be performed under the direction of the AUTHORITY for each task described.

All work is to be done in U.S. Customary Units.

**SCOPE OUTLINE:**

**TASK 145 – PROJECT MANAGEMENT**

**TASK 145.00 – NOTICE TO PROCEED**

**TASK 145.01 – PROJECT ADMINISTRATION & COORDINATION**

**Subtask 145.01.01 – General Administration**

**Subtask 145.01.02 – Management and Coordination**

**TASK 130 – UTILITY**

**TASK 130.01 – GAS PIPELINE DESIGN AND PROTECTION & SIPHON EXTENSION  
DESIGN**

**Subtask 130.01.01 – Gas Line Design and Protection**

**Subtask 130.01.02 – Siphon Extension at North Wye**

**TASK 130.02 - OTHER UTILITY PROTECTION**

**Subtask 130.02.01 – Fiber Optic, Electric, Irrigation, Waterline and Sanitary  
Sewer Utility Design and Protection**

**TASK 130.03 – PREPARATION OF OFF-SITE PLAN FOR NEW DEPARTMENT OF  
HOMELAND SECURITY (DHS) FACILITY**

**TASK 150 – FIELD SURVEYING**

**TASK 150.01 – SURVEY WORK**

**Subtask 150.01.01 – Furnish Siphon Invert and Top Elevations**

**Subtask 150.01.02 – Stake-out Design Centerline Points for Railroad Alignment**

**Subtask 150.01.03 – Aerial Photography to Accommodate Design of Mexican  
Levee (this work was previously authorized by the Client)**

**Subtask 150.01.04 – Provide out to out right of way survey markers, including  
centerpoints, for all gas pipeline locations**

## **SCOPE DETAILS:**

The following Scope of Work describes the task details that are included in the services to be provided by the CONSULTANT on the West Rail project.

### **TASK 145 – PROJECT MANAGEMENT**

#### **TASK 145.00 – NOTICE TO PROCEED**

The CONSULTANT will not begin work on utility, field surveying and signalization tasks until the AUTHORITY has granted written "Notice to Proceed."

#### **TASK 145.01 – PROJECT ADMINISTRATION & COORDINATION**

##### **Subtask 145.01.01 – General Administration**

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

- A) Coordinate, execute and administer work authorization as required with the AUTHORITY.
- 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. Prepare a detailed schedule (in a format approved by the AUTHORITY) of anticipated monthly invoice billing linking to the project work authorization tasks. A monthly progress report will be submitted and 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 electronic copies of monthly correspondence.
- C) Record Keeping and File Management – Maintain all project records and files in accordance with AUTHORITY document retention policies and manage data and transfer files for required elements of the project throughout the duration of the services under Exhibit C.
- 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 basis, but not less than once a month.

- E) Schedule – Prepare a detailed, graphic schedule linking work authorization tasks, subtasks, critical dates, milestones, and deliverables for the Authority. The Authority will forward accordingly to the Texas Department of Transportation (TxDOT),. 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 C, Work Schedule and should these reviews indicate a substantial change in progress, a schedule recovery strategy will be developed and implemented and the schedule will be revised accordingly.
- F) Managing Change – Communicate in a timely manner all types of change that may occur in the project including schedule, personnel, scope and work product changes. Proposed changes will be submitted for written approval by the AUTHORITY within one (1) week of the anticipated change. The AUTHORITY approved changes will then be incorporated into the project schedule in a timely fashion to minimize any unnecessary project delays and rework.
- G) Quality Assurance/Quality Control (QA/QC) – A comprehensive QA/QC review will be conducted at appropriate milestone points during the project, to appraise technical performance, provide direction for project activities and review all correspondence and technical reports for quality assurance.

**Subtask 145.01.02 – Management and Coordination**

- A) Meetings – The CONSULTANT will continue to hold meetings with the AUTHORITY and its representatives. Typically these are weekly meetings to discuss project schedule and action items by all involved parties. This item also includes site meetings as deemed necessary. The CONSULTANT will prepare meeting minutes and action item lists as appropriate.
- B) Continued coordination with TxDOT, Cameron County and the AUTHORITY.
- C) Coordinate with the City, AUTHORITY, UPRR and DHS/Border Patrol representatives.

**Deliverables:**

- Monthly progress reports that delineate activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle
- Meeting minutes for all meetings attended
- QA/QC checklist for each milestone submittal

**TASK 130 – UTILITY****TASK 130.01 – GAS PIPELINE UTILITY PROTECTION & SIPHON EXTENSION DESIGN**

The CONSULTANT will provide professional engineering services for the design documents including plans, specifications and probable cost estimates for the design protection for seven (7) TransMontaigne and two (2) Texas Gas Service pipeline utility locations per the UPRR standards. The CONSULTANT will provide the same services for the siphon extension. The nine (9) gas utility locations and one (1) siphon extension are identified on the plan sheets. Approximate locations and utilities are as follows:

- |                         |                   |
|-------------------------|-------------------|
| 1. STA 201+62 to 214+07 | TransMontaigne    |
| 2. STA 232+67           | TransMontaigne    |
| 3. STA 316+58           | TransMontaigne    |
| 4. STA 395+88           | TransMontaigne    |
| 5. STA 404+16           | Texas Gas Service |
| 6. STA 19+40 (S Wye)    | TransMontaigne    |
| 7. STA 24+02 (S Wye)    | Texas Gas Service |
| 8. STA 13+76 (N Wye)    | TransMontaigne    |
| 9. STA 11+95 (N Wye)    | TransMontaigne    |

**Subtask 130.01.01 – Gas Line Design and Protection**

- A) Coordinate and advise with gas line design and protection based on UPRR standards, the American Railway Engineering and Maintenance of Way Association (AREMA) standards for Cooper E80 live loading and dead load for track structure and embankment heights of 5', 10' and 15'. Recent developments with the gas line companies show each company will prepare design documents; however, the CONSULTANT will perform due diligence and advisement through value engineering alternatives during preliminary utility design.
- B) Coordinate field survey for TransMontaigne gas pipeline locations to mark utility on either side of project right of way and at centerpoint. (Pipeline companies will then arrange for hand-excavation to determine pipe depths.)
- C) Review and coordinate the submission of preliminary gas line design and protection plans to the AUTHORITY and UPRR as provided by the utility companies.
- D) Conduct/coordinate conference call meetings with the AUTHORITY, UPRR and each utility owner to discuss review comments.
- E) Review and coordinate the submission of final gas line design and protection plans to the AUTHORITY and UPRR as provided by the utility companies for UPRR approval.

- F) Modify existing West Rail Bypass design plans, profiles, and cross sections to reflect the proposed gas line design and protection.
- G) Review the probable final cost estimate and specifications for gas line design and protection for each utility (for AUTHORITY use).

### **ASSUMPTIONS for Subtask 130.01.01**

The scope of services of this Work Authorization No. 16 is limited to knowledge of existing utilities and is based upon the following assumptions:

- Project to proceed under the CONSULTANT design and construction by contractor forces as the preferred method.
- Gas line utility owner(s) will provide their own protection/relocation design for each location.
- The CONSULTANT will coordinate utility, site and review meetings between the CONSULTANT, UPRR, AUTHORITY and respective gas line utility owners.
- This work does not include the coordination of any agreements between the AUTHORITY, UPRR, and utility owner.
- Actual depth to utilities will be provided by owner(s). All utility locations in the plans are approximate. Contractor will verify locations and elevations using subsurface utility exploration.
- It is anticipated all coordination efforts will be handled via telephone conversation and/or e-mail.

### **Subtask 130.01.02 – Siphon Extension at North Wye**

- A) Coordinate with surveyor to determine inverts, top elevations and wall thicknesses of existing siphons.
- B) Coordinate with the irrigation district to discuss design, including potential minimum flows for construction sequencing.
- C) Prepare preliminary design plans, including plan sheets and details, to extend siphon.
- D) Submit design plans to irrigation district for review.
- E) Coordinate with the irrigation district and their engineering consultant to discuss review comments.
- F) Finalize design, including plan sheets and details to extend siphon. Prepare two (2) copies of final design submittal on Mylar (for AUTHORITY use).



- G) Prepare probable final cost estimate (for AUTHORITY use).
- H) Receive approval from irrigation district, AUTHORITY, and UPRR.

### **ASSUMPTIONS for Subtask 130.01.02**

The scope of services of this Work Authorization No. 16 is limited to knowledge of existing siphons and is based upon the following assumptions:

- Permit fees for irrigation district review and approval are not included in this scope of services.
- The irrigation district will provide required flow rates for construction sequencing.
- Project to proceed under the CONSULTANT design and construction by contractor forces as the preferred method.
- Contractor will determine sequencing of construction and is responsible for all coordination with the irrigation district.

### **TASK 130.02 – OTHER UTILITY PROTECTION**

The CONSULTANT will provide professional engineering services for the design documents including plans, specifications and probable cost estimates for the design protection for fourteen (14) utility locations, other than gas lines, per the UPRR standards. Fiber optic, where located adjacent and parallel to these utilities, will also be design protection. The fourteen (14) utility locations are identified on the plan sheets at:

- |                               |                 |
|-------------------------------|-----------------|
| 1. STA 96+47                  | electric        |
| 2. STA 96+52                  | waterline       |
| 3. STA 97+47                  | fiber optic     |
| 4. STA 97+52                  | electric        |
| 5. STA 227+80                 | irrigation pipe |
| 6. STA 232+67                 | fiber optic     |
| 7. STA 249+40                 | electric        |
| 8. STA 250+95                 | waterline       |
| 9. STA 251+55                 | sanitary        |
| 10. STA 307+52                | electric        |
| 11. STA 316+58                | fiber optic     |
| 12. STA 365+57                | electric        |
| 13. STA 395+85                | fiber optic     |
| 14. STA 13+78 North Wye Track | fiber optic     |

#### **Subtask 130.02.01 – Fiber Optic, Electric, Irrigation, Waterline and Sanitary Sewer Utility Design and Protection**

- A) Coordinate and advise with utility line design and protection based on UPRR standards, the American Railway Engineering and Maintenance of Way Association

(AREMA) standards for Cooper E80 live loading and dead load for track structure and embankment heights of 5', 10' and 15'. Recent developments with the utility line companies show each company will prepare design documents; however, the CONSULTANT will perform due diligence and advisement through value engineering alternatives during preliminary utility design.

- B) Review and coordinate the submission of preliminary utility line design and protection plans to the AUTHORITY and UPRR as provided by the utility companies.
- C) Conduct/coordinate conference call meetings with the AUTHORITY, UPRR and each utility owner to discuss review comments.
- D) Review and coordinate the submission of final utility line design and protection plans to the AUTHORITY and UPRR as provided by the utility companies for approval.
- E) Modify existing West Rail Bypass design plans, profiles, and cross sections to reflect the proposed utility line design and protection.
- F) Review the probable final cost estimate and specifications for utility design and protection for each utility (for AUTHORITY use).

### **ASSUMPTIONS for Subtask 130.02.01**

The scope of services of this Work Authorization No. 16 is limited to knowledge of existing utilities and is based upon the following assumptions:

- Project to proceed under the CONSULTANT design and construction by contractor forces as the preferred method.
- Utility owner(s) will provide their own protection/relocation design for each location.
- The CONSULTANT will coordinate utility, site and review meetings between the CONSULTANT, UPRR, AUTHORITY and respective utility owners.
- This work does not include the coordination of any agreements between the AUTHORITY, UPRR, and utility owners.
- Actual depth to utilities will be provided by owner(s). All utility locations in the plans are approximate. Contractor will verify locations and elevations using subsurface utility exploration.
- All coordination efforts will be handled via telephone conversation and/or e-mail

### **TASK 130.03 – PREPARATION OF OFF-SITE PLAN FOR NEW DEPARTMENT OF HOMELAND SECURITY (DHS) FACILITY**

The CONSULTANT will provide professional engineering services for the design documents including plans and specifications for off-site plans per city, county, state and federal standards. The location for the DHS facility is identified on the plan sheets.

- A) Determine system requirements and size of septic system for wastewater discharge from building.
- B) Design off-site connection to Military Highway Water Supply Corporation water main located on south side of US 281.
- C) Coordinate off-site connection of water supply service to Military Highway Water Supply Corporation water main.
- D) Design off-site connection to electrical power supply.
- E) Coordinate off-site electrical power service.
- F) Review and coordinate the submission of final DHS facility plans to the AUTHORITY and UPRR for approval.

### **ASSUMPTIONS for TASK 130.03**

The scope of services of this Work Authorization No. 16 is limited to knowledge of existing location and is based upon the following assumptions:

- Project to proceed under the CONSULTANT design and construction by contractor forces as the preferred method.
- The scope of services includes providing plans and specifications (except septic system design).
- Plans are to include typical sections and material requirements (provided by UPRR, utility owner and DHS).
- The CONSULTANT will coordinate utility coordination, site and review meetings between the CONSULTANT, UPRR, AUTHORITY, utility owner and DHS.
- UPRR is the owner of the facility and as such, will direct and coordinate all activity for design elements for this facility as requested by HNTB.
- All site plan CAD drawings will be developed and submitted as MicroStation Version 8 files.

### **EXCLUSIONS for TASK 130**

The scope of services does not include the following:

- Construction phase services.
- Final "As-Built" plans.

### **TASK 150 – FIELD SURVEYING**

### **TASK 150.01 – SURVEY WORK**

The CONSULTANT will establish points of control and provide elevations and survey points. All survey information will be provided in the English language using U.S. Survey Feet as the accepted dimension. All information will be supplied in Microstation Version 8 format.

#### **Subtask 150.01.01 – Furnish Siphon Invert and Top Elevations**

- A) Furnish siphon invert and top elevations.
- B) Obtain the complete dimensions of the concrete siphon at inlet and outlet ends within the vicinity of the north wye track.

#### **Subtask 150.01.02 – Stake-out Design Centerline Points for Railroad Alignment**

- A) Stake-out design centerline points in Mexico for tie-in coordinates for the rail alignment. Points will be located beginning at the south face location of the proposed bridge's south abutment. Points will not exceed 500 feet from the south abutment utilizing the proposed track and bridge alignments. Points will be at 50 foot intervals on curve, spiral and tangent.
- B) Stake the ROW and/or locations identified on HNTB northing/easting pdf layout for TransMontaigne gas/LPG pipeline in six (6) areas for depth determination

#### **Subtask 150.01.03 – Aerial Photography to Accommodate Design of Mexican Levee (this work previously authorized by the Client)**

#### **Subtask 150.01.04 – Provide out to out right of way and centerline survey markers for gas pipelines (3 points for each location)**

### **ASSUMPTIONS for Subtask 150.01.03**

- The AUTHORITY will provide a contact in Mexico to assist the survey sub-consultant in border crossings with their equipment.
- The RTK GPS system used for the existing survey will not function properly across the river. An alternative method for setting the centerline points will be utilized with either conventional or static control on the Mexican side.

### **EXCLUSIONS for TASK 150.01**

The scope of services does not include the following:

- Construction phase services.

- Site visits or meetings.
- Final "As-Built" plans.

### **DISCLAIMER**

Because the CONSULTANT 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 CONSULTANT'S opinion of probable costs and of project schedules shall be made on the basis of experience and qualifications as a professional engineer. The CONSULTANT does not guarantee that proposals, bids or actual project costs will not vary from the CONSULTANT's cost estimates or that actual schedules will not vary from the CONSULTANT's projected schedules.

Because data stored on electronic media can deteriorate or be modified undetected, CONSULTANT shall not be held liable for the completeness or accuracy of the electronic data after the receipt by AUTHORITY.

**EXHIBIT C**  
**WORK SCHEDULE**  
WEST RAIL DESIGN

This Work Authorization shall become effective November 1, 2008 and shall terminate on July 31, 2009, unless extended by a Supplemental Work Authorization.

SUMMARY ALL FIRMS  
WEST RAIL DESIGN PROJECT  
Work Authorization No. 16, Exhibit D - Fee Schedule  
Basis of Lump Sum Fee

		HNTB	RODS	FOA	Total
TASK 145	TASK 145.01 - PROJECT ADMINISTRATION & COORDINATION	\$ 29,725			29,725
	SUBTOTAL	\$ 29,725	\$ -	\$ -	\$ 29,725
TASK 130	TASK 130.01.01 - GAS PIPELINE UTILITY PROTECTION	\$ 33,518			33,518
	TASK 130.01.02 - SIPHON EXTENSION DESIGN	\$ 25,852			25,852
	TASK 130.02 OTHER UTILITY PROTECTION	\$ 44,506			44,506
	TASK 130.03 PREPARATION OF OFF-SITE PLAN FOR NEW DEPARTMENT OF HOMELAND SECURITY (DHS) FACILITY	\$ 21,293			21,293
	SUBTOTAL	\$ 125,169	\$ -	\$ -	\$ 125,169
TASK 150	Task 150.01 - FIELD SURVEY	\$ 1,833	\$ 8,050	\$ 10,000	19,883
	SUBTOTAL	\$ 1,833	\$ 8,050	\$ 10,000	\$ 19,883
	Total Labor	\$ 156,727	\$ 8,050	\$ 10,000	174,777
	Total Expenses	\$ 4,906			4,906
	Total Labor and Expenses	\$ 161,633	\$ 8,050	\$ 10,000	\$ 179,683

HNTB  
WEST RAIL DESIGN PROJECT  
Work Authorization No. 16, Exhibit D - Fee Schedule  
Basis of Lump Sum Fee

	Project Principal	Project Director	Senior Project Manager	Deputy Project Manager	Senior Engineer	Engineer	Technician	Project Administration	Clerical/Admin.	TOTALS
<b>TASK 145 PROJECT MANAGEMENT</b>										
<b>TASK 145.00 - NOTICE TO PROCEED</b>	228.97	228.16	201.38	159.34	188.78	124.82	107.15	92.07	84.31	
<b>TASK 145.01 - PROJECT ADMINISTRATION &amp; COORDINATION</b>										
Subtask 145.01.01 - General Administration										
A) Project Coordination	2	6	10	10	10	10	10	10	6	48
B) Progress Reports and Invoices				2					10	18
C) Record Keeping and File Management									10	10
D) Correspondence									10	10
E) Schedule									10	10
F) Managing Change									10	10
G) Quality Assurance/Quality Control (QA/QC)									10	10
H) Meetings									10	10
<b>Subtask 145.01.02 - Management and Coordination</b>										
A) Meetings										
B) Continued coordination with T&E, O&M, Gasworks, Utility, and the AUTHORITY										
C) Coordination with City, AUTHORITY, UPRR, and DISBANCER Train Representatives										
<b>HNTB Subtotal Task 145.01</b>	2	38	14	38	12	46	0	20	28	188
<b>TASK 139 UTILITY</b>										
<b>TASK 139.01 - GAS PIPELINE UTILITY PROTECTION &amp; SIPHON EXTENSION DESIGN</b>										
Subtask 139.01.01 - Gas Line Utility Protection Design										
A) Coordinate and advise with gas line design and protection through value engineering alternatives during preliminary design.										
B) Conduct field survey for Traveling/Highway gas pipeline locations to mark out to our limits and centerline.	1	2	20	6	20	22	0			51
C) Review and coordinate the submission of preliminary gas line design plans to the AUTHORITY and UPRR as provided by the utility companies.				4	20	10	4	2	2	42
D) Conduct/coordinate conference call meetings with AUTHORITY, UPRR and each/or utility owner to discuss review comments.										
E) Review and coordinate the submission of final gas line design plans to the AUTHORITY and UPRR as provided by the utility companies for approval.	1	2	22	6	22	12	0			43
F) Modify existing West Rail Bypass design plans, profiles and cross-sections to reflect gas line design and protection.	0.5	2	2	2	2	8	24			37
G) Review the probable cost estimate and specifications for gas line design and protection for each utility.				1	2	16	30			54
<b>Subtask 139.01.02 - Siphon Extension at North Wye</b>										
A) Coordinate with surveyor to determine existing siphon invert, top elevations and well thickness.										
B) Coordinate with irrigation district regarding preliminary design.										
C) Prepare preliminary design plan.	1	8	8	1	8	4				21
D) Submit design plans to irrigation district for review.	0.5	4	12	1	12	16	32			68
E) Coordinate with irrigation district and their engineering consultant regarding review comments.										
F) Finalize design plans to extend siphon not exceeding 75'	0.5	4	8	1	8	10	2	2	2	24
G) Prepare construction cost estimate and specifications for siphon extension.	0.5	6	6	1	6	12	24			51
H) Receive approval from irrigation district, AUTHORITY, and UPRR.				2	1	8				10
<b>HNTB Subtotal Task 139.01</b>	0	5	28	24	114	130	118	4	4	435
<b>TASK 139.02 OTHER UTILITY PROTECTION</b>										



HNTB  
WEST RAIL DESIGN PROJECT  
Work Authorization No. 16, Exhibit D - Fee Schedule  
Basis of Lump Sum Fee

	Project Principal	Project Director	Senior Project Manager	Design Project Manager	Senior Engineer	Engineer	Technician	Project Administration	Client/Admin.	TOTALS
Task	228.97 \$	228.17 \$	201.08 \$	189.34 \$	183.78 \$	121.82 \$	107.15 \$	92.47 \$	54.31 \$	
Subtask 130.02.01 - Fiber Optic, Electric, Irrigation, Waterline and Sanitary Sewer Utility Design and Protection										
A) Coordinate and advise with utility line design and protection through value engineering alternatives during preliminary utility design.										
B) Review and coordinate the submission of preliminary gas line design plans to the AUTHORITY and UPRR as provided by the utility companies.		1	5	6	54	27				93
C) Conduct/coordinate conference call meetings with AUTHORITY, UPRR and each other utility owner to discuss review comments.				1	20	10	38			88
D) Review and coordinate the submission of final gas line design plans to the AUTHORITY and UPRR as provided by the utility companies for review.				4	16		6	2		30
E) Modify existing West Red Branch design plans, profiles and cross-sections to reflect gas line design and protection.			2		18	12	24			88
F) Review the probable cost estimate and specifications for gas line design and protection for each utility.			3		8	10	36			87
				1	2	12				15
HNTB Subtotal Task 130.02	0	1	10	12	118	71	104	2	2	320
TASK 130.03 PREPARATION OF OFF-SITE PLAN FOR NEW DEPARTMENT OF HOMELAND SECURITY (DHS) FACILITY										
A) Determine system requirements and size for septic system for wastewater discharge from building.			2	1	4	20				27
B) Design on-site connection to Military Highway Water Supply Corporation water main located on south side of US 281.			2	1	4	20	4			31
C) Coordinate on-site connection of water supply service to Military Highway Water Supply Corporation water main.			2	1	4	20				31
D) Design on-site connection to electrical power supply.			2	1	4	20	4			31
E) Coordinate on-site connection to natural gas supply.			2	1	4	20	4			31
F) Review and coordinate the submission of final DHS facility plans to the AUTHORITY and UPRR for approval.				4	4	4				12
HNTB Subtotal Task 130.03	0	0	10	8	24	104	6	0	0	135
TASK 160 FIELD SURVEYING										
TASK 160.01 - SURVEY WORK										
Subtask 160.01.01 - Furnish Siphon Invert and Top Elevations										
A) Furnish Invert and Top Elevations (surveyor to provide)				1						1
B) Obtain Dimensions of Concrete Siphon at Inlet and Outlet Ends Near North (surveyor to provide)				1						1
Subtask 160.01.02 Stake-Out Design Centerlines for Railroad Alignment										
A) Calculate and prepare coordinates for alignment (in-					1	3				4
B) Stake out design centerline south of south abutment in Mexico				1						1
Subtask 160.01.03 Aerial Photography for Accommodate Design of Mexican Levee										
Subtask 160.01.04 Locate out to out limits and centerline for gas pipeline locations										
A) Show the ROW and/or locations identified on HNTB notations/standing rail layout for gas pipelines for depth determination (surveyor to provide)						6				6
HNTB Subtotal Task 160.01	0	0	0	3	1	9	0	0	0	13
HNTB Total Hours	2	44	82	88	289	340	228	28	32	1,109
Subtask 160.01.05 Labor Rates										
A) Labor Rates										
	228.97 \$	228.17 \$	201.08 \$	189.34 \$	183.78 \$	121.82 \$	107.15 \$	92.47 \$	54.31 \$	156,727
Total Labor Cost										
Total HNTB Expenses (see summary)	448	89,887	112,487	516,283	346,405	842,855	526,430	82,404	51,738	34,808
Total HNTB Labor Plus Expenses										518,433

**HNTB**  
**WEST RAIL DESIGN PROJECT**  
**Work Authorization No. 16, Exhibit D - Fee Schedule**  
**Basis of Lump Sum Fee**

<b>EXPENSES</b>				
	<b>Unit</b>	<b>Amount</b>	<b>Contract</b>	<b>Cost</b>
			<b>Rate</b>	
<b>Travel</b>				
Airfare (Lowest available coach fare)	ROUNDTrip	4	\$350.00	\$1,400.00
Automobile Mileage	MILE	1,500	\$0.550	\$825.00
Lodging "+ tax"	DAY	8	\$85.00	\$680.00
Rental Vehicle "+ tax"	DAY	8	\$50.00	\$400.00
Airport Parking	DAY	8	\$13.00	\$104.00
Per Diem	DAY	8	\$36.00	\$288.00
<b>Subtotal</b>				<b>\$3,697.00</b>
<b>Printing/Reproductions</b>				
B&W Copies 8.5" x 11" (unless already included in overhead)	EA	1,000	\$0.07	\$70.00
Color Copies 8.5" x 11" (unless already included in overhead)	EA	1,000	\$0.78	\$780.00
B&W Copies 11" x 17" (unless already included in overhead)	EA	500	\$0.14	\$70.00
Color Copies 11" x 17" (unless already included in overhead)	EA		\$1.55	\$0.00
11" x 17" Mylar	EA	50	\$4.18	\$209.00
Plots	EA		\$20.00	\$0.00
Color Plots	EA		\$1.64	\$0.00
CD Copying	EA		\$2.50	\$0.00
Exhibit Boards	SQ FT		\$7.35	\$0.00
Reproduce Plan Sets	EA		\$100.00	\$0.00
<b>Subtotal</b>				<b>\$1,129.00</b>
<b>Delivery</b>				
Courier, Overnight, Deliveries, Postage	EA	4	\$20.00	\$80.00
<b>Subtotal</b>				<b>\$80.00</b>
<b>Total Expenses</b>				<b>\$4,906.00</b>

**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 17 WITH HNTB FOR THE  
2<sup>ND</sup> ACCESS PROJECT**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**  
General Engineering Consultant Services

**WORK AUTHORIZATION NO. 17**  
**SOUTH PADRE ISLAND 2<sup>ND</sup> CAUSEWAY**

This Work Authorization No. 17 is made pursuant to the terms and conditions of the Base Contract, effective February 16, 2006, hereinafter identified as the "Agreement", entered into by and between Cameron County Regional Mobility Authority (the "AUTHORITY"), and HNTB Corporation (the "CONSULTANT").

**Part 1.** The CONSULTANT will provide the following engineering services:

Develop Route and Design, Environmental, Public Involvement, Field Surveying and Photogrammetry studies for the AUTHORITY. The responsibilities of the AUTHORITY, the CONSULTANT and the schedule are further detailed in Exhibits A, B, C and D.

**Part 2.** Without modification, the amount payable for services performed under this Lump Sum Work Authorization No. 17 is **\$3,294,242.00**. A fee schedule used to establish the amount payable is attached hereto as Exhibit D.

**Part 3.** Payment to the CONSULTANT for the services established under this Work Authorization No. 17 shall be made in accordance with the Agreement.

**Part 4.** This Work Authorization No. 17 is effective as of April 1, 2009 and shall terminate April 30, 2011, unless extended by a Supplemental Work Authorization.

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

**Part 6.** This Work Authorization No. 17 is hereby accepted and acknowledged below.

CONSULTANT:  
HNTB Corporation

AUTHORITY:  
Cameron County Regional Mobility Authority

By:   
Signature

By:   
Signature

Robert J. Slimp, P.E  
Printed Name

DAVID E. ALEX  
Printed Name

Vice President  
Title

CHAIRMAN  
Title

4/27/09  
Date

4/20/09  
Date

LIST OF EXHIBITS

- Exhibit A - Services to be Provided by the Authority
- Exhibit B - Services to be Provided by the Consultant
- Exhibit C - Work Schedule
- Exhibit D - Fee Schedule

**EXHIBIT A**  
**SERVICES TO BE PROVIDED BY THE AUTHORITY**  
SOUTH PADRE ISLAND 2<sup>nd</sup> ACCESS

County : Cameron  
Highway : South Padre Island 2<sup>nd</sup> Access

In addition to the services listed in the Agreement, the AUTHORITY will provide the following services:

1. The AUTHORITY shall authorize the CONSULTANT in writing to proceed.
2. The Texas Department of Transportation (TxDOT) and the AUTHORITY will collect and provide hard copy and digital copy (if available) of previously completed studies, cost estimates, record drawings, public involvement, traffic data for roadway, property ownership digital mapping and public utility information.
3. The AUTHORITY shall, under separate contract, obtain traffic volumes acceptable for completing the environmental studies including obtaining TxDOT approval for use of the volumes.
4. The AUTHORITY and TxDOT will provide support in coordinating with and inviting stakeholders and other agencies to TWG meetings and various workshops
5. The AUTHORITY shall give prompt written notice to the CONSULTANT whenever the AUTHORITY becomes aware of any development that does or may affect the scope or timing of the CONSULTANT'S Services, or any defect in the CONSULTANT'S Scope of Services or its subconsultants.
6. The AUTHORITY shall advise the CONSULTANT of the identity and scope of services of any independent consultants retained by the AUTHORITY to provide services in regard to the Project.
7. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY shall communicate this to the CONSULTANT and allow the project schedule to be adjusted accordingly.

**EXHIBIT B (Revised- 03/31/09)**  
**SERVICES TO BE PROVIDED BY THE CONSULTANT**  
**SOUTH PADRE ISLAND 2<sup>ND</sup> ACCESS**  
**Phase 3 - Environmental Process Completion**

County : Cameron  
Project : South Padre Island 2<sup>nd</sup> Access

**PROJECT UNDERSTANDING AND GOALS**

The CONSULTANT under this Work Authorization No. 17 will provide engineering and environmental services associated with the development and advancement of the NEPA process for the proposed South Padre Island (SPI) 2<sup>nd</sup> Access Project in Cameron County, Texas. The proposed SPI 2<sup>nd</sup> Access Project will serve as a critical alternative evacuation route from the island in times of disaster, hurricanes, and other emergencies. The tasks associated with the Project will include the development of the necessary environmental documentation, corridor alternatives assessments, and related public involvement activities.

Professional services related to this Project are expected to be performed in three (3) phases as follows:

- Phase 1 – Environmental Process Initiation (previously initiated under Work Authorization No. 10). Tasks include the development of the Project Development Plan (PDP) dated September 2007, a Draft Coordination Plan, and a Draft Need and Purpose Statement for the proposed SPI 2<sup>nd</sup> Access Project.
- Phase 2 – Establishment of Reasonable Corridor Alternatives (previously initiated under Work Authorization No. 12). Tasks include continuation of the environmental process, including corridor alternatives assessment through the establishment of Reasonable Corridor Alternatives; initial public involvement and outreach activities; and initial document preparation activities.
- **Phase 3 – Environmental Process Completion** (services provided under this Work Authorization No. 17). Tasks include:
  - **Phase 3A:** Those environmental and corridor alternatives assessment tasks necessary to advance the project to a selection of a Recommended Preferred Alternative, completion of the DEIS and presentation at a Public Hearing. With the selection of a preferred alternative, additional tasks such as specialized biological surveys and development of schematic design would be supplemented into this work authorization (as Phase 3B) in order to complete the documents and submit to FHWA for a Record of Decision (ROD), which provides the necessary environmental approval for further development and construction of the Project.

- **Phase 3B:** This phase supplements the efforts in phase 3A with additional biological surveys/investigations as well as design surveys, traffic analysis, cost estimates, geotechnical analysis, hydraulic analysis, and geometric development of the Recommended Preferred Alternative to a 30% schematic level for necessary approval by TxDOT and FWHA.

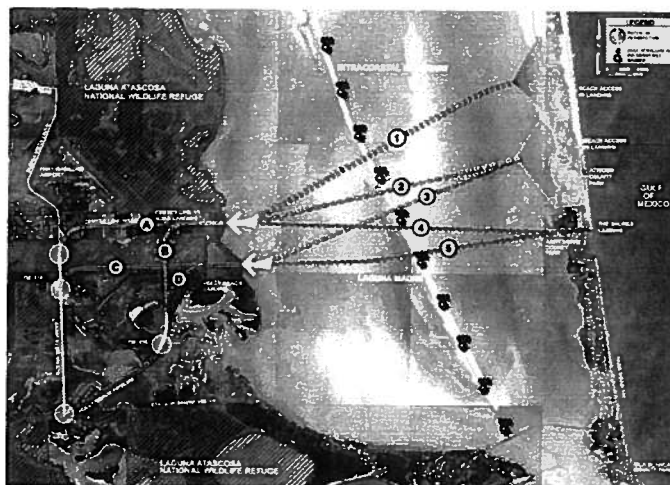
**This Work Authorization will cover only Phase 3A until a Preferred Alternative is selected. Phase 3B tasks are identified in this scope as requiring a Supplemental Work Authorization (SWA).**

Because of the size, scope, and complexity of the proposed project, the CONSULTANT will employ an approach that establishes community and environmental resource agency support for the project through development of a unifying vision for the project.

The General Engineering Consultant (GEC) TEAM will bring the Phase 3 to completion per Exhibit C, Work Schedule and will function as an extension of the AUTHORITY's resources by providing qualified technical and professional personnel, by performing the tasks described herein and by meeting the requirements and responsibilities outlined under these terms of Exhibit B, Scope of Work. The CONSULTANT will minimize the AUTHORITY's need to apply its own resources to assignments authorized to the maximum extent possible.

Services to be provided by the CONSULTANT will be performed under the direction of the AUTHORITY for each task described. All work is to be done in U.S. Customary Units.

A map showing the five reasonable alternative alignments that will be the focus of Phase 3A is provided in Figure 1. In addition to these alignments, various modal and structural options will also be evaluated including: ferry, transit (rail / bus rapid transit), bridge, tunnel, & pedestrian/bike.



### Figure 1 –Reasonable Alternatives



**SCOPE OUTLINE:**

**TASK 110 – ROUTE AND DESIGN STUDIES**

**TASK 110.00 – NOTICE TO PROCEED**

**TASK 110.01 – PROJECT ADMINISTRATION AND COORDINATION**

Subtask 110.01.01 – General Administration

Subtask 110.01.02 – Management, Coordination and Technical Work Groups

**TASK 110.02 – DATA COLLECTION/EXISTING CONDITION ANALYSIS**

Subtask 110.02.01 – Data Collection

Subtask 110.02.02 – Existing Condition Analysis

Subtask 110.02.03 – Right-of-Way (ROW) Research and Mapping

Subtask 110.02.04 – Coordination of Geotech Exploration and Testing (SWA)

**TASK 110.03 – DELETED**

**TASK 110.04 – PRELIMINARY ENGINEERING SERVICES**

Subtask 110.04.01 – Preliminary Design Concept Conference

Subtask 110.04.02 – Preliminary Horizontal and Vertical Conceptual Design

Subtask 110.04.03 – Preliminary ROW Requirements

Subtask 110.04.04 – Preliminary Utility Location Investigations

Subtask 110.04.05 – Preliminary Hydraulic Evaluation

Subtask 110.04.06 – Crossing Type Study

Subtask 110.04.07 – Preliminary Construction Cost Estimates

Subtask 110.04.08 – Preliminary Constructability Reviews

Subtask 110.04.09 – Preliminary Engineering Text & Coordination for DEIS/FEIS

**TASK 110.05 – GEOMETRIC LAYOUT (SCHEMATIC PLAN) DEVELOPMENT (SWA)**

Subtask 110.05.01 – Typical Sections

Subtask 110.05.02 – Utility Location Investigations

Subtask 110.05.03 – Geometric Design (Horizontal and Vertical Control)

Subtask 110.05.04 – Preliminary Design Cross Sections

Subtask 110.05.05 – Traffic Control and Construction Sequencing

Subtask 110.05.06 – Schematic Plan Preparation

Subtask 110.05.07 – Hydrology and Hydraulic Studies/Drainage Design

Subtask 110.05.08 – Preliminary Engineering Report Preparation

**TASK 110.06 – MILESTONE SUBMITTALS AND REVIEWS (SWA)**

Subtask 110.06.01 – 30% Complete Schematic Review Package

Subtask 110.06.02 – Preliminary Design Cross Sections

Subtask 110.06.03 – 60% Complete Schematic Review Package

Subtask 110.06.04 – 90% Complete Schematic Review Package

Subtask 110.06.05 – 100% Complete Schematic Review Package

**Subtask 110.06.06 – Design Division and Federal Highway Administration (FHWA) Review**

**TASK 110.07 –VALUE ENGINEERING PARTICIPATON**

**TASK 110.08 – TRAFFIC VOLUME DEVELOPMENT**

**Subtask 110.08.01 – Traffic Volume Development**

**Subtask 110.08.02 – Toll Feasibility Study (SWA)**

**TASK 110.09 – INNOVATIVE FINANCING SUPPORT (SWA)**

**Subtask 110.09.01 – Funding Scenarios (SWA)**

**TASK 110.10 – TRAFFIC OPERATIONAL ANALYSIS (SWA)**

**Subtask 110.10.01 – Existing Conditions Traffic Analysis**

**Subtask 110.10.02 – Future No-Build Traffic Analysis**

**Subtask 110.10.03 – Future Alternatives Traffic Analysis (SWA)**

**Subtask 110.10.04 – Traffic Analysis and Operations Tech Memo (SWA)**

**TASK 110.11 – ECONOMIC STUDY**

**Subtask 110.11.01 – Economic Development Technical Working Group (TWG)**

**Subtask 110.11.02 – Economic Studies and Support**

**TASK 120 – SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES**

**TASK 120.01 – ENVIRONMENTAL IMPACT STATEMENT (EIS)**

**Subtask 120.01.01 – Identifying the Study Area for the Environmental Document**

**Subtask 120.01.02 – Project Initiation Letter**

**Subtask 120.01.03 – Notice of Intent**

**Subtask 120.01.04 – Resource and Regulatory Agency Coordination**

**Subtask 120.01.05 – Need and Purpose Statement**

**Subtask 120.01.06 – Environmental Constraints Mapping**

**Subtask 120.01.07 – Alternatives Development and Analysis**

**Subtask 120.01.08 – Administrative Record**

**TASK 120.02 – AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES**

**Subtask 120.02.01 – Analysis of Social and Economic Impacts**

**Subtask 120.02.02 – Environmental Justice**

**Subtask 120.02.03 – Consideration of Pedestrians and Bicycles**

**Subtask 120.02.04 – Farmland Impacts**

**Subtask 120.02.05 – Air Quality Analysis**

**Subtask 120.02.06 – Traffic Noise Analysis**

**Subtask 120.02.07 – Water Quality Impacts**

**Subtask 120.02.08 – United States Army Corps of Engineers Permits**

**Subtask 120.02.09 – United States Coast Guard Section 9 Permit (33 USC 401)**

**Subtask 120.02.10 – Determining Wetland Impacts**

**Subtask 120.02.11 – Water Body Modifications and Wildlife Impacts**

**Subtask 120.02.12 – Threatened or Endangered Species**

- Subtask 120.02.13 – Invasive Species Studies
- Subtask 120.02.14 – Essential Fish Habitat
- Subtask 120.02.15 – Vegetation Impacts
- Subtask 120.02.16 – Beneficial Landscaping
- Subtask 120.02.17 – Floodplain Impacts
- Subtask 120.02.18 – Wild and Scenic Rivers
- Subtask 120.02.19 – Coastal Barriers
- Subtask 120.02.20 – Coastal Zone Impacts
- Subtask 120.02.21 – Archeological Studies
- Subtask 120.02.22 – Historic Resource Studies
- Subtask 120.02.23 – Section 4(f) Evaluations
- Subtask 120.02.24 – Initial Assessment of Hazardous Materials Impacts
- Subtask 120.02.25 – Visual Impacts
- Subtask 120.02.26 – Indirect and Cumulative Impacts
- Subtask 120.02.27 – Construction Impacts
- Subtask 120.02.28 – Conceptual Mitigation Plan
- Subtask 120.02.29 – Circulation/Distribution of Approved DEIS/FEIS
- Subtask 120.02.30 – Comment Resolution Workshop
- Subtask 120.02.31 – Preparation of Draft ROD (Record of Decision)

**TASK 120.03 – PUBLIC INVOLVEMENT**

- Subtask 120.03.01 – Public Involvement Plan Update and Contact Log
- Subtask 120.03.02 – Public Hearing
- Subtask 120.03.03 – Agency Coordination Meeting
- Subtask 120.03.04 – Stakeholder Mailing List Update
- Subtask 120.03.05 – Public Involvement Technical Working Group (TWG)
- Subtask 120.03.06 – Media Relations
- Subtask 120.03.07 – CSS Facilitated Workshops
- Subtask 120.03.08 – Final Reports

**TASK 150 – FIELD SURVEYING AND PHOTOGRAMMETRY**

**TASK 150.01 – FIELD SURVEYING (SWA)**

- Subtask 150.01.01 – Horizontal and Vertical Control
- Subtask 150.01.02 – Ownership Research and Permission to Survey (SWA)
- Subtask 150.01.03 – Low Altitude Aerial Mapping (Design Alignment) (SWA)
- Subtask 150.01.04 – Supplemental Engineering Design Surveying (Design Alignment) (SWA)
- Subtask 150.01.05 – Geotechnical Bore Hole Surveys (SWA)
- Subtask 150.01.06 – Proposed ROW Staking (SWA)

## **SCOPE DETAILS:**

The following Scope of Work describes the task details that are included in the Services to be provided by the CONSULTANT on the 2<sup>nd</sup> Access project.

The CONSULTANT will also perform independent project oversight and coordination duties for each task and subtask. This GEC oversight will be performed by a GEC OVERSIGHT TEAM. The GEC OVERSIGHT TEAM will be comprised of GEC personnel that are not involved, except in an oversight and contract administration role, in project-specific design and development activities. The oversight work will include establishing guidelines, standards, engineering oversight, as well as providing the systems and procedures to implement the design and construction of the project. The GEC OVERSIGHT TEAM's role will be expanded upon in the project organizational chart and the QA/QC project manual.

## **TASK 110 – ROUTE AND DESIGN STUDIES**

### **TASK 110.00 – NOTICE TO PROCEED**

The CONSULTANT will not begin work on Route and Design Studies, Social, Economic and Environmental Studies and Field Surveying and Photogrammetry tasks until the AUTHORITY has granted written "Notice to Proceed."

### **TASK 110.01 – PROJECT ADMINISTRATION AND COORDINATION**

#### **Subtask 110.01.01 – General Administration**

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

- A) Coordinate, execute and administer work authorization as required with the AUTHORITY and the GEC OVERSIGHT TEAM.
- 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. Prepare a detailed schedule (provide in the AUTHORITY approved format) of anticipated monthly invoice billing linking to the project work authorization tasks. A monthly progress report shall be submitted and 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. The CONSULTANT will also provide a weekly e-mail summary to the GEC OVERSIGHT

TEAM that briefly summarizes services performed and activities that occurred that week, including any required action items or any other pertinent project issues.

- C) Record Keeping and File Management – Maintain all records and files related to the project throughout the duration of the services. Uploading of project files to the ProjectWise website shall be coordinated with the GEC OVERSIGHT TEAM. Maintain and update via ProjectWise the deliverables tracking log provided by the GEC OVERSIGHT TEAM and denote specific submittals in the weekly e-mail summary. Because data stored on electronic media can deteriorate or be modified undetected, CONSULTANT shall not be held liable for the completeness or accuracy of the electronic data after the receipt by AUTHORITY.
- 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 basis, but not less than once a month.
- E) Schedule – Prepare a detailed, graphic schedule linking work authorization tasks, subtasks, critical dates, milestones, deliverables and AUTHORITY/Texas Department of Transportation (TxDOT)/FHWA 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 work schedule Exhibit “C” and should these reviews indicate a substantial change in progress, a schedule recovery strategy will be developed and implemented and the schedule will be revised accordingly.

#### **Subtask 110.01.02 – Management, Coordination and Technical Work Groups**

Due to the size, scope and complexity of the proposed 2<sup>nd</sup> Access project, a comprehensive and inclusive CONSULTANT structure to facilitate project management and coordination was established in Phase 1 and 2 of the project. The CONSULTANT structure includes an Executive Committee, Steering Committee and the Technical Working Groups (TWGs). The CONSULTANT will attend and participate in each of the Executive Committee, Steering Committee and TWG meetings in Phase 3.

##### **A) Executive Committee:**

The project Executive Committee consists of the Executive Director of the AUTHORITY, TxDOT's Pharr District Engineer and a representative of FHWA with decision-making authority. Although not a decision-making member of the Executive Committee, the CONSULTANT will actively participate in Executive Committee meetings in Phase 3. The CONSULTANT's role with regard to the Executive Committee is to provide logistical and technical support; project related advice; serve as the conduit for information exchange between the Executive Committee and other team members and ensure that direction of the Executive Committee is carried-out

and reflected in day-to-day project activities. It is anticipated that the Executive Committee will meet as described in the Draft Project Coordination Plan; this scope assumes coordination, support and participation in four (4) Executive Committee meetings. Two (2) of these meetings will serve as the "Check Point" meetings identified in the PDP to assess the status of the project. The other two will occur after Public Scoping meeting #3 and after the Public Hearing. Two (2) members of the CONSULTANT will attend each meeting.

B) Steering Committee:

The Steering Committee consists of a representative of the AUTHORITY, TxDOT Pharr District AND FHWA plus the chairperson of each of the TWGs. The continued role of the Steering Committee will be to consider the views and recommendations of the diverse TWGs and to form/present an "informed consent" based recommendation to the Executive Committee. The CONSULTANT's role with regard to the Steering Committee is to provide logical and technical support; project related advice; serve as the conduit for information exchange between the Steering Committee and the Executive Committee for Phase 3. It is anticipated that the Steering Committee will meet per the Draft Project Coordination Plan; this scope assumes coordination, support and attendance at two (2) Steering Committee meetings. Six (6) members of the CONSULTANT will attend each meeting.

C) Technical Working Groups (TWG):

To continue the development of the proposed project, the five (5) TWGs established in Phase 1 and 2 will be continued to be utilized in Phase 3. The role of each TWG is further defined in the Draft Project Coordination Plan (October 2008).

The five (5) TWGs are:

**Engineering TWG** will occur once a quarter (8 meetings anticipated, 3 members of the CONSULTANT will attend each meeting)

**NEPA TWG** will occur once a quarter (8 meetings anticipated, 3 members of the CONSULTANT will attend each meeting)

**Public Involvement TWG** will occur once every 6 months (4 meetings anticipated, 3 members of the CONSULTANT will attend each meeting)

**Economic Development TWG** (2 meetings anticipated, 2 members of the CONSULTANT will attend each meeting)

**Funding TWG** (2 meetings anticipated, 2 members of the CONSULTANT will attend each meeting)

D) Alternatives Evaluation Coordination Workshop:

The CONSULTANT will participate in an evaluation of reasonable alternatives coordination workshop with the AUTHORITY, TxDOT, FHWA and the GEC

OVERSIGHT TEAM to review the results of the environmental, engineering and traffic analysis and review public input to jointly determine a recommended preferred alternative. The CONSULTANT will provide three (3) copies of color aerial photo base maps showing reasonable alternatives as working exhibits for the meeting as well as technical memorandum detailing the engineering and environmental issues, findings, and recommendations. For budgeting purposes assume a two (2) day meeting with the CONSULTANT's project manager and up to five (5) additional staff/subconsultant participating in the meeting. The CONSULTANT will prepare and submit meeting minutes to the AUTHORITY for review and will identify the recommended preferred alternative in the alternatives chapter of the EIS.

E) Internal Progress Meetings:

The CONSULTANT will hold monthly internal progress meetings (up to twenty four (24)) with designated AUTHORITY representatives and the GEC OVERSIGHT TEAM on a regular basis to report on the progress of tasks related to the services. The CONSULTANT will prepare meeting minutes and action item lists as appropriate.

**Deliverables:**

- Monthly progress reports that delineates activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle
- Hard copy and electronic documentation for administrative record
- Meeting minutes for all meetings attended
- Resource agency coordination letters
- AUTHORITY approved letter distribution list

**TASK 110.02 – DATA COLLECTION/EXISTING CONDITION ANALYSIS**

Consistent with the CSS based approach to project development, throughout this task the Engineering TWG and NEPA TWG will be engaged when appropriate, in their scheduled meetings.

**Subtask 110.02.01 – Reasonable Alternatives Data Collection**

The CONSULTANT shall collect ***additional*** information required for the detailed assessment of the reasonable alternatives. Additional information will also be required in the development of the preferred alternative. It is anticipated that the project will have six reasonable alternatives including one preferred alternative. The CONSULTANT will review previously assembled and documented project data and supplement it for the alternatives as necessary and/or as deemed necessary by the AUTHORITY, including:

- A) Field Reconnaissance, photographs, mapping data, seasonal traffic data, transportation reports, regional master plans – The CONSULTANT will conduct detailed field reconnaissance for the reasonable alternatives to establish the validity of previously collected data and supplement data where necessary.

- B) Update summary document listing data collected, basic information on data collected and how it will, may be or has been applied.

#### **Subtask 110.02.02 – Existing Condition Analysis**

The CONSULTANT will assess the existing conditions of the reasonable alternatives (6) 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 voids. This assessment will include:

- A) Geometric Features – Assess public ROW widths and easements along the proposed route, horizontal and vertical alignments of FM 510, SH 100, SH 48, FM 511, FM 106, US 77 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) Gulf Intercoastal Waterway Data and Features – Assess existing and proposed widths, alignment, crossing requirements.
- G) The CONSULTANT 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 CONSULTANT in connection with other ongoing projects).
- H) The CONSULTANT will obtain from the AUTHORITY an electronic copy of the approved MPO TransCAD model.
- I) Prepare summary document describing assessments of existing condition analyses.

The Engineering TWG will review and validate existing data.



### **Subtask 110.02.03 – Right-of-Way (ROW) Research and Mapping**

The CONSULTANT will review existing ROW information collected in Work Authorization 12 and provided by the AUTHORITY and will develop a **preliminary ROW map** (based upon existing mapping and topography) showing existing apparent ROW lines. These apparent ROW lines will be used to delineate the existing ROW limits on the alternative layouts. The CONSULTANT will also obtain uncontrolled property line information from the Cameron County Appraisal District property tax roll maps and best fit the property lines to the alternative base map.

### **Subtask 110.02.04 – Coordination of Geotechnical Exploration and Testing (SWA)**

**Under Supplemental Work Authorization**, the CONSULTANT will provide services to support development of the geotechnical investigations, studies and reports. The CONSULTANT shall provide input into the development of preliminary foundation design for required structure locations. The CONSULTANT will propose locations of necessary soil borings at proposed bridge, retaining wall, drainage retention and detention pond locations. The CONSULTANT will prepare and submit a recommended soil boring location map for review and approval by the AUTHORITY or its representative.

The CONSULTANT will prepare foundation information summary report for up to 20 bore locations.

Soil sampling will also be performed in accordance with Texas Commission on Environmental Quality (TCEQ) requirements for design and permitting of the On-Site Sanitary Sewer Facilities (OSSF).

The CONSULTANT shall incorporate pertinent recommendations and suggestions related to the project as described in the geotechnical report into the schematics as deemed necessary by the AUTHORITY.

#### **Deliverable:**

- Recommended soil boring location map
- Geotechnical and Foundation Summary Report

### **TASK 110.03 – TASK DELETED**

### **TASK 110.04 – PRELIMINARY ENGINEERING SERVICES**

Consistent with the CSS based approach to project development, throughout this task the Engineering, NEPA and Funding TWG will be engaged when appropriate, in their scheduled meetings.

These preliminary engineering services shall apply to all six (6) reasonable alternative alignments and possible modes.

**Subtask 110.04.01 – Preliminary Design Concept Conference**

- A) The CONSULTANT will prepare the draft design summary report (DSR) for the Preliminary Design Concept Conference (PDCC). The draft DSR information will include the PDCC comments and concurrence, suggested attendance and suggested agenda. The draft DSR will be submitted to the AUTHORITY and GEC OVERSIGHT TEAM for review prior to conducting the PDCC.
- B) The CONSULTANT, in cooperation with the AUTHORITY, will conduct and document the PDCC meeting. The CONSULTANT will provide up to two (2) copies of plots, plans and related drawings of recommended alternative (1 anticipated) as appropriate for the PDCC meeting. The conference will provide for a brainstorming session in which decision makers, stakeholders and technical personnel may discuss and agree on the following:
  - 1. Review of DSR.
  - 2. Establish design parameters for geometrics for all modes being evaluated.
  - 3. Identify the key engineering and environmental constraints.
  - 4. Specific issues for focus during the engineering plan development.
  - 5. Identification of desired bicycle and pedestrian facilities and amenities.
  - 6. Identification of potential landscape and hardscape improvements and locations in accordance with the CSS findings.
  - 7. Project development schedule.
  - 8. Other issues as identified by the AUTHORITY.
- C) Within one (1) week after conducting the PDCC, the CONSULTANT will submit three (3) revised draft copies of the DSR to the AUTHORITY for review and approval. After AUTHORITY comments are incorporated, the CONSULTANT will prepare five (5) copies of the final DSR and submit along with meeting minutes to the AUTHORITY.

**Subtask 110.04.02 – Preliminary Horizontal and Vertical Conceptual Design**

For 5 reasonable alternative alignments and applicable modes, the CONSULTANT will prepare the horizontal and vertical conceptual designs to sufficient detail to determine ROW and access requirements. Drawings will be developed for use in TWG and CSS meetings and for use in determining environmental (noise, air, visual) impacts. Should additional horizontal and vertical alignments be prepared, a supplemental work authorization will be required.

### **Subtask 110.04.03 – Preliminary ROW Requirements**

Preliminary ROW requirements shall be determined using roadway functional classification, consideration of environmental impacts, design criteria, access denial limits (control of access), utility corridor space requirements, 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.

### **Subtask 110.04.04 – Preliminary Utility Location Investigations**

- A) The CONSULTANT will utilize existing plans and visual field confirmation in the development of a preliminary utility location map.
- B) The CONSULTANT will participate in up to three (3) coordination meetings with designated AUTHORITY representatives and the utility companies' representatives to identify/confirm existing/proposed utilities, potential conflicts, review coordination progress and resolve outstanding issues.

### **Subtask 110.04.05 – Preliminary Hydraulic Evaluations**

For each reasonable alternative alignment and applicable mode, the CONSULTANT will perform concept level drainage evaluation. The CONSULTANT will coordinate with the AUTHORITY, GEC OVERSIGHT TEAM and TxDOT as needed to provide continuity and consistency of proposed drainage features and systems. The CONSULTANT will adhere to the criteria set forth by the AUTHORITY in the hydrology and hydraulic design guidelines technical memorandum.

The CONSULTANT will include significant hydrologic and hydraulic considerations in the development and assessment of alternative alignments for the project. Significant considerations include design elevations for the bridge and roadway to ensure desired performance for hurricane evacuation, impacts to FEMA-regulated floodplains and, as needed, environmental and water quality issues.

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

Tasks to be performed by the CONSULTANT to accomplish concept level hydrology and hydraulic studies include data gathering and agency coordination only, no calculations will be conducted until a preferred alignment is identified. Tasks include the following:

A) Field Investigations and Data Gathering.

1. Obtain relevant existing hydrologic and hydraulic models.
2. Obtain and evaluate available studies and reports relevant to hydrologic and hydraulic design.
3. Investigate applicable design criteria, regulations, and guidance.
4. Compile and review available pertinent environmental data associated with drainage, hydrologic and hydraulics.

B) Agency Coordination.

FEMA coordination – The CONSULTANT shall identify and document issues that will require coordination with FEMA, Cameron County, Town of South Padre Island, City of Port Isabel and Town of Laguna Vista, 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 CONSULTANT shall develop technical data and provide it to FEMA, Cameron County, Town of South Padre Island, City of Port Isabel, the City of Brownsville, and Town of Laguna Vista, via the AUTHORITY in support of this discussion, as necessary.

Drainage and Water District coordination – The CONSULTANT shall coordinate with Cameron County, the Town of South Padre Island, City of Port Isabel and Town of Laguna Vista, Cameron County Irrigation District No. 1, Cameron County Drainage District No. 1, the City of Brownsville, the Port of Brownsville and the Laguna Madre Water District for issues including outfall of storm water runoff into the neighboring drainage channels or to the Laguna Madre, as necessary. This coordination may include consideration of industrial stormwater or wastewater discharges in these districts.

Corps of Engineers coordination – The CONSULTANT shall coordinate with the USACE, if necessary, regarding any natural arroyos crossing underneath the proposed roadway including the Gulf Intercoastal Waterway. For this subtask, avoidance and mitigation relative to wetlands, Waters of the U.S. and current navigation features will be considered during the hydrologic and hydraulic study to limit the permitting issues.

Other Agencies – Other agencies identified during the Data Gathering phase of this task will be contacted as necessary. Coordination will be limited to specific hydrologic and hydraulic elements of this task.

**Subtask 110.04.06 – Crossing Structural and Modal Type Study**

A crossing type evaluation will be performed for the purpose of establishing the crossing cross section, clearance requirements, structure type(s) and span lengths (if applicable) for the proposed 2<sup>nd</sup> Access of the Laguna Madre between the mainland and South

Padre Island. The possibility of the crossing being a highly visible structure over the Laguna Madre, it must be a functional, cost-effective and context sensitive for region and local communities. Therefore, the crossing type study will be performed in conjunction with aesthetic concept development as part of an overall context sensitive development process. It is assumed that the **reasonable alternative alignments will be evaluated though the NEPA process under other tasks and will not be part of this task;**

**The Crossing Type Study will assume that all 5 alternative alignments will have similar issues, therefore only one "typical" alignment will be selected for this study and will be applicable to all alternative alignments.**

Development of crossing type alternatives will require topography and soil strata information that will be estimated using existing data. Upon selection of a preferred alignment and prior to commencing more detailed development of the structure, it is recommended that a geotechnical investigation be conducted.

A) Development of Potential Crossing Type Alternatives – The following tasks will be performed as part of the crossing type evaluation:

1. Identify applicable modes and structure types to be evaluated. Modes will be assessed as to whether they meet purpose and need prior to continued evaluation.
2. Determine the appropriate typical section based on traffic requirements, approach roadway geometrics, economic considerations and user safety
3. Develop a preliminary vertical profile based on the following considerations:
  - Main crossing of the navigational channel – USACE vertical clearance requirements and estimated depths of superstructure for potential alternatives and modes
  - Approaches to main crossing – Anticipated storm surge elevations from critical design storm and estimated depths of superstructure for potential alternatives, geometrics of approach roadways and potential local impacts at crossing termini
4. If the crossing is a bridge structure, develop potential span lengths, pier locations, superstructure and substructure types for three (3) sub-segments of the structure based on constructability, speed of construction, initial cost, long-term performance/maintainability, environmental impact and aesthetics and aesthetic compatibility between sub-segments:
  - Main (high-level) unit over shipping channel, with additional consideration for:
    - a. USACE horizontal clearance requirements resulting from channel skew at crossing, vessel approach incidence and protection of main span piers against vessel impact
    - b. Investigation of the following potential superstructure types: steel plate girders, steel box girders, segmental concrete box girders, precast, prestressed concrete American Association of State Highways and

- Transportation Officials (AASHTO) I-beams or Texas U-beams made continuous with post-tensioning, steel trusses, tied arches and cable-stay
- c. Investigation of the following potential substructure types: single-column or multi-column piers on drilled shafts or prestressed concrete pile footings
  - d. Any special requirements for "signature" bridge treatment
  - High-level approaches to main unit, with additional consideration for:
    - a. Vessel approach incidence and protection of high-level piers against vessel impact
    - b. Investigation of the following potential superstructure types: steel plate girders, steel box girders, segmental concrete box girders, precast, prestressed concrete AASHTO I-beams or Texas U-beams made continuous with post-tensioning
    - c. Investigation of the following potential substructure types: single-column or multi-column piers on drilled shafts or prestressed concrete pile footings
  - Low-level approaches, with additional consideration for:
    - a. Impact of water depth and equipment accessibility on constructability
    - b. Environmental impact from locations, number and size of substructure units
    - c. Investigation of the following potential superstructure types: steel plate girders, steel box girders, segmental concrete box girders, precast, prestressed concrete AASHTO I-beams or Texas U-beams (with or without continuous post-tensioning)
    - d. Investigation of the following potential substructure types: single-column or multi-column piers on drilled shafts or prestressed concrete pile footings
  5. Develop cost estimates for potentially viable structural and modal alternatives based on the following criteria:
    - Square foot costs from similar past construction (i.e., historical unit prices as indexed to predicted future cost increases), or
    - Material pricing for estimated member types, sizes and quantities based on historical unit prices (indexed as above) where the method in "1." does not exist or is not sufficiently relevant
  6. Render an opinion concerning aesthetics and CSS of various alternatives recommended for further consideration and develop potential aesthetic enhancements as appropriate; assign relative costs to aesthetic enhancements developed.
  7. Revise preliminary vertical profile as necessary based on the recommended alternative(s).
  8. Recommend a structure type and a modal type to be applied to the five alternative alignments based on the following criteria:
    - Cost – least cost with due consideration for the remaining criteria
    - Safety – adequate capacity and geometry (lane widths, shoulder widths, barriers, etc.)
    - Constructability – Potential barge access, dredging restrictions, airport glide path restrictions or others as may exist along final bridge alignment
    - Schedule – construction schedule preferences/requirements

- Operational and environmental impacts – navigational impacts to vessel traffic; temporary and permanent impacts to marine environment
  - CSS - responds to project vision and aesthetic concerns.
  - Long-term performance – durability; requirements and potential for future widening
  - Drainage – requirements for conveying runoff for appropriate treatment
9. Prepare concept sketches for the potentially viable alternatives:
- Cross-sections (superstructure and substructure)
  - Plan and elevation concepts
  - Aesthetic treatments/enhancements consistent with TxDOT, CSS issues and project-specific guidelines.

**Deliverables:**

- Two (2) 36" x 46" boards showing concepts sketches of crossing alternatives:
  - Cross-sections (superstructure and substructure)
  - Plan and elevation schematics
  - Aesthetic treatments/enhancements consistent with TxDOT, CSS issues and project-specific guidelines.
- A technical memorandum on structural and modal considerations and recommended alternative

**Subtask 110.04.07 – Preliminary Construction Cost Estimates**

For the five reasonable alternative alignments and applicable modes, a preliminary opinion of probable construction cost that includes preliminary ROW costs, landscape costs and utility adjustments, will be prepared by the CONSULTANT. 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 CONSULTANT 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 CONSULTANT'S opinion of probable costs and of project schedules shall be made on the basis of experience and qualifications as a professional engineer. The CONSULTANT does not guarantee that proposals, bids or actual project costs will not vary from the CONSULTANT's cost estimates or that actual schedules will not vary from the CONSULTANT's projected schedules.

**Subtask 110.04.08 – Preliminary Constructability Reviews**

The CONSULTANT will participate in constructability reviews for the project. Constructability reviews will be conducted on all five reasonable alternative alignments and the various modes associated with them. The review will consider the

constructability of the alternative based on known construction techniques and their relative cost and construction impacts to the surrounding area due to the various techniques.

**Subtask 110.04.09 – Preliminary Engineering Text and Coordination for DEIS and FEIS development**

The CONSULTANT will prepare a draft text summarizing the findings of the various engineering studies and investigations.

- A) Summary of data collected and how it will, may be or has been applied.
- B) Photographic record of project area.
- C) Summary of existing condition analysis.
- D) Alternatives assessment documentation report.
- E) DSR.
- F) Plan and profile exhibits
- G) Preliminary ROW technical memorandum.
- H) Summary of preliminary utility conflicts.
- I) Traffic study technical memorandum.
- J) Crossing study technical memorandum.
- K) Preliminary construction cost estimates.

**TASK 110.05 – GEOMETRIC LAYOUT (SCHEMATIC PLAN) DEVELOPMENT (SWA)**

Consistent with the CSS based approach to project development, throughout this task the Engineering, NEPA and Funding TWG will be engaged.

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, the CONSULTANT will develop a schematic plan of the preferred alternative (1 anticipated). Preliminary design considerations will include the following: design criteria (operation/safety), LOS analyses, ROW requirements, project costs and life cycle costs. The schematic shall be considered 100% complete upon the formal written approval of AUTHORITY. The CONSULTANT will be responsible for addressing comments and revisions which are a result of errors and omissions. The CONSULTANT will provide the corrections required for errors and omissions without delay and without additional cost to the AUTHORITY.



**Subtask 110.05.01 – Typical Sections (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION** The CONSULTANT will develop applicable typical sections of existing and proposed roadways at a proportional scale for incorporation into the schematic layout document. Typical section will include the following design elements:

- A) Centerline alignment.
- B) Profile grade line.
- C) ROW width (existing and proposed).
- D) Railroad ROW.
- E) Railroad centerline alignment.
- F) Limits of proposed roadway.
- G) Concrete traffic barrier railing or fencing.
- H) Illumination.
- I) Median width (raised, depressed, painted) and slope.
- J) Sign structures.
- K) Shoulder widths.
- L) Curbs and curb offsets.
- M) Lane widths.
- N) Clear zones.
- O) Bicycle facilities.
- P) Pavement structure.
- Q) Pavement cross slope.
- R) Berms.
- S) Border (utility corridor).

- T) Drainage structures (existing and proposed).
- U) Ditches, including side slope rates for fills and cuts.
- V) Natural grade line.
- W) Traffic directional arrows.
- X) Typical section description, including stationing and location (median openings).
- Y) Structure clearances, including horizontal and vertical clearances, airport clearances.
- Z) Sidewalks.
- AA) Turn lanes.
- BB) Frontage roads.
- CC) Superelevation limits, stationing and rate.

**Subtask 110.05.02 – Utility Location Investigations (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION** The AUTHORITY will utilize subsurface utility engineering (SUE) services under separate contract to locate buried utilities within the project limits using quality level B utility designation. Quality level B utility designation includes, but is not limited to, the designation of utility lines, the horizontal location of utility lines and the records research. The AUTHORITY shall provide a Quality level B utility layout in electronic format, compatible with MicroStation, to be used for further development of the schematic plans. The CONSULTANT will coordinate with the AUTHORITY as needed to facilitate the SUE services. The CONSULTANT will incorporate SUE utility data provided by the AUTHORITY into the schematic plan on a separate drawing level of the MicroStation DGN file.

The CONSULTANT will participate in up to three (3) additional coordination meetings with designated AUTHORITY representatives and the utility companies' representatives to identify/confirm existing/proposed utilities, potential conflicts, review coordination progress and resolve outstanding issues. The CONSULTANT will prepare and distribute minutes and action item lists as appropriate. The CONSULTANT shall include the existing utilities on the schematic plan on a separate drawing level of the MicroStation DGN file. Any proposed utility corridors shall be shown on the typical sections of the schematic plan. The CONSULTANT will prepare a summary of preliminary utility conflicts for the schematic design.

**Subtask 110.05.03 – Geometric Design (Horizontal and Vertical Control) (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION** The CONSULTANT will develop vertical and horizontal alignments using Geopak for express lanes, main lanes, direct connects, frontage roads, ramps and cross streets. Geometric design will be developed in sufficient detail to determine basic engineering needs such as ROW, fill or embankment, retaining wall locations and surface drainage needs.

**Subtask 110.05.04 – Preliminary Design Cross Sections**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION** Preliminary design cross sections will be prepared at a maximum interval of 100 feet for roadway and specific elevated sections where there is a variation in profile. These cross sections will extend 300 feet beyond the end of construction limits. The preliminary design cross section will extend 15 feet beyond the limits of the proposed and/or existing ROW lines. Cross sections will be provided in hard copy and electronic Geopak format on a compact disk (CD). Information on each section will include existing terrain and proposed roadway template showing roadway stationing subgrade, elevated bridge structures, finish grade and ditch sections and finished grade elevations at each design point on the proposed roadway template. Roadway excavation and embankment quantities will also be shown for each section. Cross sections will be provided on 22" minimum wide reproducible strips at 1"=20' horizontal and 1"=5' vertical.

**Subtask 110.05.05 – Traffic Control & Construction Sequencing (SWA)**

- A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION** The CONSULTANT will prepare a preliminary traffic control and sequence of construction plan to describe and delineate construction activities during each stage of construction. The sequence of construction will be described primarily through the use of typical sections for the corridor in general and with plan view exhibits showing how operations and access with intercostals navigational vessels, typical intersections and typical driveways will be maintained. Handling of traffic shall be considered in the development of preliminary designs.
- B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION** The CONSULTANT will develop a traffic control and sequence of construction report that documents and describes the preliminary construction sequence and phasing plan, this information will be included in the PER. The report shall include the initial and ultimate proposed treatment of intersecting roads for selected route. Consideration should be given to all construction activities during each stage of construction and traffic control during construction shall be included in the development of preliminary design for the schematic plan. The sequence/phasing plan also needs to consider effects on adjacent property owners.

**Subtask 110.05.06 – Schematic Plan Preparation (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will develop the color schematic plan on planimetric base map to indicate general geometric features and location requirements of the project. All schematic design shall be in conformance with AASHTO and the AUTHORITY's Highway Design Division, 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 shall be revised by the CONSULTANT to reflect the AUTHORITY's review comments from the previous submittal. The schematic plan and related drawings will be provided on 22" minimum wide reproducible strip sheets at a scale of 1"=200' horizontal and 1"=10' vertical. An electronic MicroStation .DGN graphic file containing the approved schematic will be provided by the CONSULTANT. 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 projection diagram showing base year (2010) and design year (2030) projected average daily traffic (ADT) volumes, north arrow and roadway layout with street names.
5. Texas county map, with city and district labeled.
6. Completed federal aid title block.
7. AUTHORITY plane coordinate reference, with datum and benchmark reference.
8. Preliminary "not a bidding document" stamp, with Professional Engineer (PE) signature, name, license number and date.
9. Copyright stamp.

B) Plan.

1. Calculated roadway baselines for the express lanes, general purpose main lanes, direct connectors, frontage roads, ramps, u-turns 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. Superelevation 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. LOS conditions will be annotated on the schematic via a stick diagram.
11. Geometrics of speed change lanes.
12. Horizontal control, including panel points, benchmarks and coordinates.
13. Typical section location symbols.

14. Identify future ROW requirements adequate for future preparations of ROW maps.
15. 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.
16. Location and text of the proposed main lane guide signs.
17. Direction of traffic flow on all roadways, lane lines and/or arrows indicating the number of lanes will be shown.
18. Median lines (raised, painted and transitions), median widths and openings.
19. Roadway names and highway designations, railroad name, cross street names and locations, designated signalized intersections, acceleration and deceleration lanes, climbing lanes and transitions.
20. Explanation of the sequence and methods of staged construction.
21. Pedestrian and bicycle facilities and Americans with Disabilities Act (ADA) compliance.
22. Bridge and structure locations, including spans, bents, abutments and bridge type.
23. Sign structures and sign text.
24. Retaining wall locations, including beginning and ending station.
25. On street parking and bus facilities.
26. Aesthetic and landscape/hardscape treatments.
27. Proposed drainage requirements, such as the location of structures, inlets, manholes, trunk lines, channels, ditches, arroyos, retention/detention ponds, etc.
28. Existing drainage features, such as structures, channels, ditches, arroyos, trunk lines, retention/detention ponds, etc.

C) Profile.

1. Calculated profile grade for the express lanes, main lanes, direct connectors, frontage roads, ramps 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. Superelevation, 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, including required vertical clearances, begin and end bridge limit stationing and span/bent/abutment locations and assumed superstructure depth.
9. Existing and proposed drainage features (structure, channels, ditches, arroyos, ponding areas), labeling station and invert elevation.

**Subtask 110.05.07 – Hydrology and Hydraulic Studies/Drainage Design (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION** For the preferred alternative the CONSULTANT will perform schematic level drainage evaluation and design for the schematic plan. The CONSULTANT will coordinate with the AUTHORITY, and TxDOT as needed to provide continuity and consistency of proposed drainage features and systems. The CONSULTANT will adhere to the criteria set forth by the AUTHORITY in the hydrology and hydraulic design guidelines technical memorandum.

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

All hydraulic design will be in accordance with the aforementioned hydrology and hydraulic design guidelines technical memorandum, which will identify potential culvert crossing locations, outfalls and conceptual detention/retention locations. Variances to these criteria shall only be permitted if approved in writing by the AUTHORITY.

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

**A) Field Investigations and Data Gathering.**

5. The CONSULTANT will utilize the drainage information developed in the schematic level drainage evaluation and design for the schematic plan and final design. The AUTHORITY will provide a copy of the schematic level drainage evaluation and design for the schematic plan and applicable supporting data to the CONSULTANT.
6. Conduct site visit to project to inspect watersheds and conditions of existing facilities.
7. Coordinate with the project geotechnical CONSULTANT regarding information on groundwater levels and soil conditions at locations throughout the site.
8. Obtain relevant existing hydrologic and hydraulic models.
9. Obtain and evaluate available studies and reports relevant to hydrologic and hydraulic design.
10. Investigate applicable design criteria, regulations, and guidance.
11. Compile and review available pertinent environmental data associated with drainage, hydrologic and hydraulics.

**B) Hydrologic and Hydraulic Studies.**

1. Design Criteria – The CONSULTANT shall utilize the design criteria as provided

- in the hydrology and hydraulic design guidelines from TxDOT to size drainage structures within each roadway section. The design will conform to all other applicable regulations, e.g. FEMA, TCEQ.
2. Perform hydrologic analysis for onsite and offsite areas as needed for design. This will include considerations of storage in the low-lying areas around the site.
  3. Perform hydraulic analysis and design of bridge deck drainage, roadway drainage, and cross drainage structures. 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.
  4. Design of ponds or other structures as needed for flood control or water quality. If needed, preliminary sizing will be provided and any additional ROW needed to accommodate proposed drainage facilities will be identified.
  5. Perform computer modeling or other evaluations as appropriate for design. The AUTHORITY shall provide (or approve) the model or evaluation method to be used as the basis of the analysis. Factors to be considered include scour, tidal circulation and flood levels. A screening level of evaluation will be performed initially to determine if any of these issues is significant concern and to determine the level computer modeling that is warranted for design purposes. A full hydrodynamic model of the Laguna Madre is not anticipated in this scope; however, additional modeling may required as an addendum to this scope if hydraulic or environmental issues are identified that warrant this additional level of modeling.

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 Texas Licensed Professional Engineer in the CONSULTANT and include such key information as:
  - Project Background (location, existing conditions, significant design considerations, etc.)
  - Design Criteria (design frequency, check flood, applicable regulations, etc.)
  - Hydrologic Study (assumptions, methodology, drainage area information, summary of results, etc.)
  - Hydraulic Study (assumptions, methodology, summary of results, etc.)
  - Potential environmental constraints and permitting
  - Attachments (electronic data/models, detailed input/output files, etc.)
2. Prepare engineer's construction cost estimate for drainage structures and conveyance systems.

D) Agency Coordination.

FEMA coordination – The CONSULTANT shall identify and document issues that will require coordination with FEMA, Cameron County, Town of South Padre

Island, City of Port Isabel and Town of Laguna Vista, 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 CONSULTANT shall develop technical data and provide it to FEMA, Cameron County, Town of South Padre Island, City of Port Isabel, the City of Brownsville, and Town of Laguna Vista, via the AUTHORITY in support of this discussion, as necessary.

Drainage and Water District coordination – The CONSULTANT shall coordinate with Cameron County, the Town of South Padre Island, City of Port Isabel and Town of Laguna Vista, Cameron County Irrigation District No. 1, Cameron County Drainage District No. 1, the City of Brownsville, the Port of Brownsville and the Laguna Madre Water District for issues including outfall of storm water runoff into the neighboring drainage channels or to the Laguna Madre, as necessary. This coordination may include consideration of industrial stormwater or wastewater discharges in these districts.

Corps of Engineers coordination – The CONSULTANT in Subtask 110.01.04 shall coordinate with the USACE, if necessary, regarding any natural arroyos crossing underneath the proposed roadway including the Gulf Intercoastal Waterway. For this subtask, avoidance and mitigation relative to wetlands, Waters of the U.S. and current navigation features will be considered during the hydrologic and hydraulic study to limit the permitting issues.

Other Agencies – Other agencies identified in Subtask 110.01.04 and during the Data Gathering phase of this task will be contacted as necessary. Coordination will be limited to specific hydrologic and hydraulic elements of this task.

#### **Subtask 110.05.08 – Preliminary Engineering Report Preparation (SWA)**

**UNDER SUPPLEMENTAL WORK AUTHORIZATION** The CONSULTANT will prepare a draft PER summarizing the findings of the various engineering studies and investigations. The preferred sheet sizes for the report are 11"x17" (landscape) and 8.5" x 11" (portrait). 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 CONSULTANT will prepare a final PER for submittal with the 100% complete milestone review. The draft PER will include the following:

- A) Summary of data collected and how it will, may be or has been applied.
- B) Photographic record of project area.
- C) Summary of existing condition analysis.
- D) Alternatives assessment documentation report.
- E) DSR.



- F) Plan and profile exhibits
- G) Preliminary ROW technical memorandum.
- H) Summary of preliminary utility conflicts.
- I) Traffic control and sequence of construction technical memorandum.
- J) Traffic study technical memorandum.
- K) Crossing study technical memorandum.
- L) Preliminary construction cost estimates.

**Deliverables:**

- Draft PERs to accompany 30%, 60% ,90% (as described in Task 110.06)
- Ten copies and a pdf of the final PER ( as described in Task 110.06)

**TASK 110.06 – MILESTONE SUBMITTALS AND REVIEWS (Preferred Alternative Only) (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will assemble and submit the required number of below specified deliverables simultaneously to the AUTHORITY and the GEC OVERSIGHT TEAM. The specified number of deliverables shown will be submitted to the AUTHORITY. One (1) additional copy of each specified deliverable will be submitted to the GEC OVERSIGHT TEAM in both electronic (pdf) and hard copy format. Electronic submittals will be uploaded to ProjectWise. The AUTHORITY will ultimately determine if a submittal review meeting (SRM) is necessary. Review meetings will be planned for budgetary purposes but will only be held if so directed by the AUTHORITY.

**Subtask 110.06.01 – 30% Complete Schematic Review Package**

- A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will print/plot, assemble and submit the following for the 30% complete schematic review package.
1. Ten (10) copies of the PER including the following:
    - Summary of data collected and how it will, may be or has been applied
    - Photographic record of project area
    - Summary of existing condition analysis
    - Alternatives assessment documentation report
    - DSR
    - Preliminary ROW technical memorandum
    - Summary of preliminary utility conflicts
    - Traffic study technical memorandum

- Bridge study technical memorandum
- Preliminary construction cost estimate
- 2. Two (2) hardcopy plots and all associated electronic files (MicroStation/Geopak) of the schematic plan and related drawings (22" minimum wide reproducible strips).
- 3. Ten (10) copies of the hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.
- 4. One (1) copy of markups of internal QC review documents, including appropriate checklists.

**B) UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will prepare for and attend a 30% SRM if deemed necessary by the AUTHORITY. The CONSULTANT will prepare the meeting agenda and presentation aids and exhibits as appropriate. The CONSULTANT will prepare and submit meeting minutes.

#### **Subtask 110.06.02 – Preliminary Design Cross Sections**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will submit between the 30% and 60% SRMs, one (1) hardcopy (22" minimum wide reproducible strips) and all associated electronic files of the preliminary design cross sections.

#### **Subtask 110.06.03 – 60% Complete Schematic Review Package**

**A) UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will print/plot, assemble and submit the following for the 60% complete schematic review package.

1. Ten (10) copies of the PER consisting of refined information from the 30% review submittal plus additional items including the following:
  - Traffic control and sequence of construction technical memorandum
  - Preliminary illumination layout
  - Railroad impact evaluation technical memorandum
2. Two (2) hardcopy plots and all associated electronic files (MicroStation/Geopak) of the refined schematic plan (with cross sections) and related drawings (22" minimum wide reproducible strips).
3. Five (5) copies of Form 1002 "Proposed Basic Design Data," including documentation of preliminary design exceptions and waivers as applicable and one (1) copy of all associated electronic files.
4. Ten (10) copies the refined hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.
5. One (1) copy of markups of internal QC review documents including appropriate checklists.

- B) UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will prepare for and attend a 60% SRM if deemed necessary by the AUTHORITY. The CONSULTANT will prepare the meeting agenda and presentation aids and exhibits as appropriate. The CONSULTANT will prepare and submit meeting minutes.

**Subtask 110.06.04 – 90% Complete Schematic Review Package**

- A) UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will print/plot, assemble and submit the following for the 90% complete schematic review package.
1. Ten (10) copies of the refined PER.
  2. Two (2) hardcopy plots and all associated electronic files (MicroStation/Geopak) of the refined schematic plan (with cross sections) and related drawings (22" minimum wide reproducible strips).
  3. One (1) copy of markups of internal QC review documents.
  4. Ten (10) copies of refined hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.
  5. One (1) copy of markups of internal QC review documents including appropriate checklists.
- B) UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will prepare for and attend a 90% SRM if deemed necessary by the AUTHORITY. The CONSULTANT will prepare the meeting agenda and presentation aids and exhibits as appropriate. The CONSULTANT will prepare and submit meeting minutes.

**Subtask 110.06.05 – 100% Complete Schematic Review Package**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will print/plot, assemble and submit the following for the 100% complete schematic review package:

- A)** Ten (10) bound and one (1) unbound copy of the final PER and one (1) copy of all associated electronic files.
- B)** Five (5) sets of the final schematic plan (with cross sections) and related drawings (22" minimum wide reproducible strips) and one (1) copy of all associated electronic files (MicroStation/GEOPAK).
- C)** Five (5) copies of Form 1002 "Proposed Basic Design Data" page 3 of 3 and one (1) copy of all associated electronic files.
- D)** Ten (10) copies of the final hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.

E) One (1) copy of markups of internal QC review documents.

**Subtask 110.06.06 – Design Division and Federal Highway Administration (FHWA) Review**

- A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will plot and submit five (5) copies of the AUTHORITY approved schematic plan for subsequent submittal by the AUTHORITY to TxDOT for approval. The TxDOT's design division will provide any necessary review and coordination with FHWA, as applicable.
- B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, As deemed necessary by the AUTHORITY, if there are any changes made to the schematic following approval from the design division and FHWA and after the public hearing, the CONSULTANT will plot and submit the five (5) copies of the revised schematic as directed by the AUTHORITY.

**Deliverables:**

- Meeting minutes for all meetings attended
- 30% complete schematic review package
- One (1) hardcopy (22" minimum wide reproducible strips) and all associated electronic files of the preliminary design cross sections
- 60% complete schematic review package
- 90% complete schematic review package
- 100% complete schematic review package
- Five (5) sets of the final schematic plan (with cross sections) and related drawings (22" minimum wide reproducible strips) and one (1) copy of all associated electronic files (MicroStation/GEOPAK) for design division and FHWA review
- If deemed necessary by the AUTHORITY, five (5) sets of the revised final schematic plan (with cross sections) and related drawings (22" minimum wide reproducible strips) and one (1) copy of all associated electronic files (MicroStation/GEOPAK)

**TASK 110.07 – Value Engineering Participation (SWA)**

Consistent with the CSS based approach to the project development, throughout this task the Engineering TWG will be engaged, when appropriate, via its regularly scheduled monthly meetings and the Value Engineering (VE) workshop.

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT and the Engineering TWG will participate in a VE study conducted by others. VE studies will be performed for the 2<sup>nd</sup> Access project. The studies will be performed at approximately 45% of schematic completion to ensure that sufficient project details are available to enhance the VE workshop and allow the CONSULTANT time to incorporate recommendations into the design. Only recommendations and/or modifications

approved by the AUTHORITY will be implemented in development of the schematic design.

Tasks shall include:

- A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will coordinate with the AUTHORITY and the VE team leader to assist in the preparation of the VE study as necessary. The CONSULTANT shall participate in a conference call prior to the study to discuss final study preparations, provide project design information as requested for VE study presentation, provide project alternative layouts, typical sections and cost estimates for use as exhibits during the VE study.
- B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT and the Engineering TWG will attend the VE study workshop, (estimated at 40 hours for budgeting purposes). The CONSULTANT's project manager and up to five (5) additional staff/subconsultants will participate in the VE study workshop.
- C) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will provide project design information as requested by the VE leader, who may use this information to prepare the VE study report. The VE leader is responsible for submitting the final study report within two (2) weeks after completion of VE study, using materials developed by the VE study team, including the CONSULTANT, during the VE workshop.

#### **TASK 110.08 - TRAFFIC VOLUME DEVELOPMENT & TOLL FEASIBILITY STUDY**

Based on the Methodology Memorandum delivered under Work Authorization No. 12, the CONSULTANT will develop estimated toll and non-toll volumes for the reasonable alternatives. The study will build on the efforts of the previous Level 2 TFS completed by Texas Turnpike Authority (TTA) Division, but focuses on the reasonable alternatives.

##### **Subtask 110.08.01 –Traffic Volume Development**

The CONSULTANT will develop preliminary tolled and non tolled traffic volumes utilizing existing traffic data and the latest versions of the MPO models for the adjacent area. No existing MPO model currently exists for this area. Travel-time savings, toll rate and value of time will be considered in the development of the traffic volumes.

##### **Deliverables:**

- Traffic Volume Forecasts in TPP standard format (Electronic file – MS Word and PDF)

##### **Subtask 110.08.02 –Toll Feasibility Study (SWA)**

A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will conduct an intermediate-level TFS for the 2<sup>nd</sup> Access project utilizing the TTA methodology and presentation format.

B) Specific items to be developed to meet the TTA include:

1. Fact sheet.
2. Location map.
3. Existing and proposed typical sections.
4. Toll concept diagram (stick diagram).
5. Traffic and revenue summary.
6. Project cost summary.
7. Project cost schedule.
8. Preliminary revenue analysis (with operations, maintenance and bonding).
9. Preliminary revenue analysis (with operations, maintenance and structured debt).
10. Preliminary revenue analysis (with operations, maintenance and no bonding).
11. Preliminary revenue analysis (with operations, no maintenance and no bonding).
12. Refined preliminary revenue analysis.

**Deliverables:**

- Draft intermediate-level TFS Report (TTA Format) (Electronic file – MS Excel and PDF format)
- Final intermediate-level TFS Report (TTA Format) (Electronic file – MS Excel and PDF format)

**TASK 110.09 – INNOVATIVE FINANCING SUPPORT (SWA)**

Based on the results of the intermediate-level TFS, the CONSULTANT and the Funding TWG will assist the AUTHORITY and TxDOT in strategizing innovative funding scenarios to develop the 2<sup>nd</sup> Access project.

**Subtask 110.09.01 – Funding Scenarios**

A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT and the Funding TWG will conduct a funding workshop with the AUTHORITY, TxDOT and TTA to brainstorm innovative financing strategies to bridge any funding gap identified in the Level 2 study.

B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT and the Funding TWG will develop a funding matrix and phased implementation schedule to reflect the outcome of the workshop. Although other funding strategies may be considered, the intent of the conceptual development under this work authorization is to assess the feasibility of tolling as a viable funding strategy for accelerating the construction of the project.

**Deliverables:**

- Level 2 funding matrix (Electronic file – MS PowerPoint, MS Excel and PDF format)
- Phased implementation schedule (Electronic file – MS PowerPoint, MS Excel and PDF format)

**TASK 110.10 – TRAFFIC OPERATIONAL ANALYSIS**

Consistent with the CSS based approach to project development, throughout this task the Engineering TWG will be engaged, when appropriate, via their regularly scheduled meetings.

The CONSULTANT will utilize regional network traffic data provided by the AUTHORITY in digital format to perform traffic operations analysis of the preferred alternative. The GEC OVERSIGHT TEAM model of the existing condition and future No-build alternative will be available for use as applicable by the CONSULTANT.

**Subtask 110.10.01 – Existing Conditions Traffic Analysis**

- A) The CONSULTANT will collect and compile existing traffic data (peak turning movement counts, hourly tube counts and vehicle classification) from previous studies.
- B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will collect turning movement count data at up to 15 intersections.
- C) Seasonal Traffic Volume Data – The CONSULTANT will collect seasonal traffic factors from previous studies.
- D) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will create a Synchro/SimTraffic peak hour (AM & PM) and ingress and egress seasonal peak (“peak hour”) traffic analysis model of the existing traffic and geometry. Through the calibration process, the model will match traffic volumes and operations representative of each peak hour. The model will serve as a baseline to evaluate the impacts of future traffic and proposed improvements.
- E) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will prepare traffic diagrams for incorporation into the schematic document.

**Subtask 110.10.02 – Future No-Build Traffic Analysis**

- A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will establish a growth rate based on the toll feasibility tasks and updates to the area MPO’s regional travel demand models.
- B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will apply the established growth rates to the existing traffic volumes to create a future traffic data set representing each peak hour.

- C) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will analyze the future No-build conditions that represent future traffic on the existing system for each peak hour.
- D) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will compare results of the future No-build traffic analysis to the existing conditions traffic analysis for each peak hour.
- E) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will prepare traffic diagrams for incorporation into the schematic document.

**Subtask 110.10.03 – Future Alternatives Traffic Analysis**

- A) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, In coordination with the model representing the proposed improvements (“build conditions”), the CONSULTANT will calculate separate growth rates representing the three (3) alternatives for the study area for the AM, PM, and seasonal peaks, respectively.
- B) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will apply the “build conditions” growth rates to establish three (3) sets of traffic volumes representing the proposed alternatives for the AM, PM, and seasonal peaks, respectively.
- C) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will analyze and compare the results of each of the three (3) future conditions traffic analysis to the existing conditions traffic and future No-build analysis for the AM, PM, and seasonal peaks, respectively.
- D) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will summarize the results of each modeled condition in a preliminary traffic study technical memorandum. The preliminary traffic study technical memorandum will be utilized for the assessment of the preferred alternative.
- E) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will prepare traffic diagrams for incorporation into the schematic document.
- F) **UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will not analyze toll booth operations as a part of this scope. If a toll booth is a reasonable alternative, the analysis of the toll booth operations will occur as additional work.

**Subtask 110.10.04 – Traffic Analysis and Operations Technical Memorandum (SWA)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION**, The CONSULTANT will summarize the results of each analyzed condition as a part of the Traffic Analysis and



Microsimulation Tech Memo. The tech memo will discuss the growth rates and factors applied to the existing volumes and compare the results of each condition.

**Deliverables:**

- Synchro/SimTraffic microsimulation files representing the AM & PM peaks and seasonal ingress and egress peaks for the existing, future No-build and three (3) future alternatives (Electronic file – Synchro version 7 format)
- Technical memorandum section summarizing existing traffic data, applied growth rates and analysis comparing the performance of each condition (Electronic file – MS Word and PDF format)

**TASK 110.11 – ECONOMIC STUDY**

Consistent with the CSS based approach to project development, throughout this task the five (5) TWGs will be engaged, when appropriate, via their regularly scheduled meetings.

Building on the socioeconomic analysis completed in Phase 2, CONSULTANT will analyze the economic and tax revenue impact of the alternatives. The tasks and documentation produced as part of Phase 3 will be incorporated into the final EIS.

**Subtask 110.11.01 – Economic Development Technical Work Group (TWG)**

The economic analysts selected to perform this independent study would work with the Economic Development TWG made up of citizens representing various business and economic interests in the region. The working group would assist with the development of a scope of the study as well as the selection of the analysts.

**Subtask 110.11.02 – Economic Studies and support**

**A) Economic Impact of Each Alternative**

Perform an economic impact analysis related to new economic activity in the Study Area resulting from a second access. Because the location of the second access will likely influence the amount of developable land and land use patterns, this economic impact analysis will highlight the potential effects of each alternative. The purpose of this part of the analysis is to translate the potential economic effects of each reasonable alternative on affected communities and economic sectors into their regional consequences.

Once the new economic activity is defined, the ripple effects associated with this increase in economic activity will be modeled using an appropriate input-output model of the regional economy. Because the Study Area is part of a much larger Cameron

County economy, part of the new economic will likely occur outside of the Study Area. However, these benefits are important because this economic activity will generate new tax revenue throughout Cameron County that could be used to financial the project. If required, CONSULTANT can model the economic impact of the existing business activity at South Padre Island so a baseline impact can be established.

**B) Tax Revenue Impact of Each Alternatives**

Once the economic impact of each alternative has been estimated, CONSULTANT will create a tax revenue impact model to analyze the tax impact of direct economic activity within the Study Area. In addition, CONSULTANT will calculate the indirect and induced tax revenues that occur throughout Cameron County. The team will collect data on tax rates and tax base for all relevant jurisdictions in the Study Area. CONSULTANT will also request the most recent GIS shapefiles from the Cameron Appraisal District to identify land use patterns and net taxable values.

**C) Cost-Benefit Analysis**

The CONSULTANT will identify and evaluate the benefits and costs related to each alternative. Focusing on both a local and aggregate basis, CONSULTANT will specifically identify the costs to the community (to build or not build) and range of revenues that could be generated by the same action. The community benefits and potential revenue sources related to a build alternative will also be used to summarize financing options. The cost-benefit analysis will address the market, monetary non-market (e.g., recreation and tourism) and non-monetary non-market (e.g., ecological effects on the Bay and terrestrial habitats).

**D) Public Input, Interview, Meetings, and Presentations**

The national economic recession has negatively affected the real estate sector and financial markets. This will influence the scope and timing of projects in the Study Area. To supplement the interviews in Phase 2, the CONSULTANT will interview Cameron County real estate developers and business leaders to discuss the future of the region, upcoming large projects and expansions plans. This task will inform the inputs to the economic impact analysis related to new developments in the Study Area.

**E) Assist with EIS Preparation / Documentation**

CONSULTANT will provide support in incorporating economic information into the DEIS including responding to comments, questions, and modifications.

## **TASK 120 – SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES**

Consistent with the CSS based approach to project development, throughout this task the five (5) work groups will be engaged, when appropriate, via their regularly scheduled meetings.

### **TASK 120.01 – ENVIRONMENTAL IMPACT STATEMENT (EIS)**

The CONSULTANT shall prepare an EIS that shall meet the requirements of 23 CFR 771, 43 TAC 2.40 – 2.50, FHWA Technical Advisory 6640.8A and TxDOT's current environmental procedures manual. The document content shall be in sufficient detail to meet FHWA requirements for legal sufficiency.

#### **Subtask 120.01.01 – Identifying the Study Area for the Environmental Document**

This work is part of Work Authorization No. 12.

#### **Subtask 120.01.02 – Project Initiation Letter**

This work is part of Work Authorization No. 10.

#### **Subtask 120.01.03 – Notice of Intent**

This work is part of Work Authorization No. 12.

#### **Subtask 120.01.04 – Resource and Regulatory Agency Coordination**

This work was initiated under Work Authorization No. 12. The CONSULTANT shall continue to coordinate with resource and regulatory agencies through the NEPA TWG to facilitate project development. The CONSULTANT will prepare summaries of each NEPA TWG to capture major issues, items of discussion, and action items.

#### **Subtask 120.01.05 – Need and Purpose Statement**

A draft Need and Purpose statement, with supporting documentation, was prepared under Phase I. Phase II activities included coordinating the draft Need and Purpose statement with the AUTHORITY, TxDOT, FHWA and the participating agencies (via the NEPA TWG).

The draft Need and Purpose statement was presented to the public for review and comment during Public Scoping Meeting No. 1, and has been modified/refined based upon comments from the NEPA TWG and the public and will be resubmitted to the AUTHORITY, TxDOT and FHWA for review.

Under Phase III, the Need and Purpose will continue to be reviewed and modified throughout development of the project (Chapter 1 of the EIS).

For scoping purposes, a total of four (4) revisions to the modified/refined Purpose and Need statement are anticipated under Phase III (AUTHORITY – one (1) revision, TxDOT Pharr District – one (1) revision, ENV – one (1) revision and FHWA – one (1) revision).

#### **Subtask 120.01.06 – Environmental Constraints Mapping**

Under Phase II, the CONSULTANT prepared and presented a preliminary constraints map to identify potential travel corridors and environmental constraints within the project study area. The constraints map will continue to be updated under Phase III as additional data is acquired and as alternatives are developed.

#### **Subtask 120.01.07 – Alternatives Development and Analysis**

Under Phase II, the CONSULTANT gathered preliminary alternatives resulting from public involvement and previous engineering studies and developed methodologies and screening criteria to identify viable alternatives suitable for further evaluation. Under Phase III, the reasonable alternatives will be refined and evaluated (Chapter 2 of the EIS).

For scoping/budgeting purposes, up to six (6) reasonable alternatives (five (5) route alternatives and the No-build alternative) will be evaluated in the EIS. Should it be necessary to evaluate additional alternatives, the associated effort will be authorized through a supplemental work authorization.

Detailed analysis will be limited to the No-build and reasonable alternatives.

Alternatives that were considered and eliminated from further study will be summarized and included in the environmental documentation, as appropriate.

#### **Subtask 120.01.08 – Administrative Record**

The CONSULTANT shall establish, track, organize and manage the project's administrative record, which is the written record supporting the agency's decisions. The documents and materials shall be organized in chronological order by date. An index will also be prepared to identify documents and materials (i.e., "memorandum dated June 5, 2007 from Mary Smith to Environmental Protection Agency (EPA) administrator Jones regarding June 6, 2007 meeting agenda."). The administrative record shall be maintained electronically and hard copy by the CONSULTANT throughout the project development process.

## **TASK 120.02 – AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES**

A draft of conditions of the affected environment (Chapter 3 of the EIS) was prepared under Phase II. Under Phase III, the affected environment will be refined and completed. In addition, environmental consequences of the reasonable alternatives on each issue and resource will be discussed in detail in the EIS.

The EIS shall discuss each of the following issues and resource(s). The discussion shall be written in language intelligible to the lay reader. The CONSULTANT may logically group similar and/or related categories when doing so would simplify discussion without omitting explicit reference to each of the issues and resources listed in this section.

**A) Social and Economic Impact Assessment.**

1. Land Use Impacts.
2. Farmland Impacts.
3. Social Impacts.
4. Relocation Impacts.
5. Economic Impacts.
6. Environmental Justice Impacts.

**B) Environmental Justice.**

**C) Considerations Relating to Pedestrians and Bicycles.**

**D) Farmland Impacts**

**E) Air Quality Impacts.**

**F) Noise Impacts.**

**G) Water Quality Impacts.**

1. National Pollutant Discharge Elimination System (NPDES) permits.
2. Storm Water Pollution Prevention Plan (SW3P).

**H) Impacts to Waters of the U.S. (including wetlands).**

1. USACE, Section 10 of the Rivers and Harbors Act.
2. USACE, Section 401 of the Clean Water Act.
3. USACE, Section 404 of the Clean Water Act.
4. U. S. Coast Guard, Section 9 of the Rivers and Harbors Act.

**I) Water Body Modifications and Wildlife Impacts.**

- J) Threatened or Endangered Species and Protected Species Impacts.
- K) Invasive Species.
- L) Essential Fish Habitat.
- M) Vegetation Impacts.
- N) Beneficial Landscaping.
- O) Floodplain Impacts.
- P) Wild and Scenic Rivers.
- Q) Coastal Barriers.
- R) Coastal Zone Impacts.
- S) Impacts to Historic and Archeological Resources.
  - 1. Archeological Studies.
  - 2. Historic Resources Studies.
- T) Section 4(f) Evaluation.
- U) Hazardous Materials Impacts.
- V) Visual Impacts.
- W) Indirect and Cumulative Impacts.
- X) Construction Impacts.

Upon completion of the preliminary DEIS, two (2) copies will be provided to the AUTHORITY for review and comment. The CONSULTANT will revise the preliminary DEIS to address AUTHORITY comments. Five (5) copies of the revised document will be submitted to the AUTHORITY for submission to TxDOT Pharr District. The CONSULTANT will revise the preliminary DEIS to address TxDOT Pharr District comments. Ten (10) copies of the revised document will be submitted to the AUTHORITY for submission to ENV. The CONSULTANT will revise the preliminary DEIS to address TxDOT ENV comments. Fifteen (15) copies of the revised document will be submitted to the AUTHORITY for submission to FHWA. The CONSULTANT will revise the preliminary DEIS to address FHWA comments. Ten (10) copies of the revised document will be provided to the Authority for submission to TxDOT and FHWA for the purpose of backchecking revisions. For purposes of this scope/fee, it is

assumed that a total of four (4) revisions will be made to the DEIS (AUTHORITY – one (1) revision, TxDOT Pharr District – one (1) revision, ENV – one (1) revision and FHWA – one (1) revision.

For purpose of this scope/fee, it is assumed that production of the FEIS will be achieved through the same review, comment and revision process as described for the DEIS, and the same number of review comments will be provided.

**Subtask 120.02.01 – Analysis of Social and Economic Impacts**

The CONSULTANT shall identify and evaluate the social and economic impacts of the project in the vicinity of the reasonable alternatives. The CONSULTANT shall use appropriate data sources, such as the United States Census, windshield surveys, maps and aerial photographs to determine the potential for social impacts.

- A) Potential social impacts to be documented include:
1. Demographics (population, ethnic/racial distribution, income) based on the most recent census or projections.
  2. Land uses in the project area (community services, schools, etc.).
  3. Mobility (pedestrian, bicycle, transit, cars).
  4. Safety (traffic accidents).
- B) The CONSULTANT shall identify the property owners adjacent to each reasonable alternative for purposes of stakeholder involvement.
- C) The CONSULTANT shall identify all potential displacements for each reasonable alternative.
- D) The CONSULTANT shall assess the availability of replacement housing and shall report the results of this assessment in the EIS. If the preferred alternative has been identified, identification of replacement housing shall be performed only for the preferred alternative.
- E) The CONSULTANT shall identify impacts to racial, ethnic, and income populations.
- F) The CONSULTANT, in coordination with TxDOT and the AUTHORITY, shall develop mitigation measures for social, economic and community impacts for the preferred alternative, if warranted.
- G) The CONSULTANT shall gather and analyze information obtained through the public scoping meetings to identify and assess social impacts of the project.
- H) The CONSULTANT shall assess impacts to economic development resulting from the reasonable alternatives.

- I) The CONSULTANT shall identify, by use of land use plans and windshield surveys, current land uses and any anticipated land uses. The CONSULTANT shall review available subdivision plats in addition to any surveys and land use plans.
- J) The CONSULTANT shall evaluate travel modes and patterns in the study area, in order to determine any impacts the project may have on access to homes, businesses and community services. The CONSULTANT shall use predictive models, observation and/or public contact to determine travel modes and patterns.

**Subtask 120.02.02 – Environmental Justice**

The CONSULTANT shall perform an environmental justice analysis to fulfill the requirements of Executive Order 12898 (on environmental justice).

- A) The CONSULTANT shall utilize the United States Census Bureau's Census 2000 and/or Texas State Data Center census data to identify the racial, ethnic and income level of affected individuals and communities, in order to determine any disproportionate impacts on any minority or low-income individuals or communities.
- B) The CONSULTANT, in coordination with TxDOT and the AUTHORITY, shall develop mitigation measures for environmental justice impacts for the preferred alternative, if warranted.
- C) The CONSULTANT shall evaluate travel modes and patterns in the study area, in order to determine any impacts the project may have on access to the environmental justice community.

**Subtask 120.02.03 – Consideration of Pedestrians and Bicycles**

The CONSULTANT shall identify considerations affecting pedestrians and bicycles to fulfill the requirements of FHWA Technical Advisory 6640.8A (1987).

- A) The CONSULTANT shall identify pedestrian and bicycle trails within the study area and evaluate impacts the project may have on access to the trails.
- B) The CONSULTANT shall, in coordination with TxDOT and the AUTHORITY, develop mitigation measures to enhance pedestrian and bicycle use for the preferred alternative, if warranted.

**Subtask 120.02.04 – Farmland Impacts**

The CONSULTANT shall identify farmland impacts in accordance with the Farmland Protection Policy Act (7 USC 4201 et. seq.).



- A) The CONSULTANT shall utilize Cameron County soil maps to identify impacts to potential prime and unique farmland.
- B) The CONSULTANT shall complete the U.S. Department of Agriculture's Natural Resource Conservation Service (NRCS) Form NRCS-CPA-106 "Farmland Conversion Impact Rating for Corridor Type projects" for submittal to the NRCS.
- C) If additional coordination with the NRCS is required, such coordination shall be subject to a supplemental work authorization.

**Subtask 120.02.05 – Air Quality Analysis**

The CONSULTANT shall perform an air quality analysis in accordance with the current version of TxDOT air quality guidelines issued in 2006. The CONSULTANT shall determine the attainment status of Cameron County, obtain current air quality models, obtain current and projected traffic volumes and obtain congestion management systems in non-attainment areas.

- A) The CONSULTANT shall perform computer modeling of current and future year peak-hour carbon monoxide concentrations at project ROW lines using computer models, traffic data and project plan maps provided by TxDOT.
- B) The CONSULTANT shall perform computer modeling with TxDOT supplied software to compare the current and future year peak-hour carbon monoxide concentrations to the national ambient air quality standards. This modeling shall compare modeled carbon monoxide levels to the one (1) hour and eight (8) hour carbon monoxide national ambient air quality standards.
- C) The CONSULTANT's report on air quality shall include documentation of the results and methods used in modeling and air quality background information.
- D) Modeling documentation shall include traffic volumes used in modeling, computer models used, current and future year carbon monoxide concentrations and percentages of the national ambient air quality standards for current and future year.
- E) The CONSULTANT shall identify in the field, sensitive receptors within 500 meters of each reasonable alternative. Sensitive receptors include hospitals, schools, licensed daycares, and elder care facilities.
- F) The CONSULTANT shall prepare a qualitative assessment of Mobile Source Air Toxics (MSATs). If it is determined that a quantitative MSATs analysis is required, such analysis shall be subject to a supplemental work authorization.

### **Subtask 120.02.06 – Traffic Noise Analysis**

The CONSULTANT shall perform a traffic noise analysis in accordance with the current version of TxDOT's "Guidelines for Analysis and Abatement of Highway Traffic Noise." Noise analyses shall be performed for all reasonable alternatives identified in the EIS.

- A) The CONSULTANT shall identify representative receivers that might be impacted by highway traffic noise and may benefit from feasible and reasonable noise abatement.
- B) The CONSULTANT shall determine existing and predicted noise levels for representative receivers, as follows:
  - 1. The CONSULTANT shall take field measurements of existing noise levels. Field measurements shall be accomplished with sound meters that meet or exceed ANSI S1.4-1983, Type 2.
  - 2. The CONSULTANT shall perform computer modeling of existing noise levels and predicted (future) noise levels. Computer modeling shall be accomplished with the FHWA traffic noise model (TNM), Version 2.5, in areas where there is an existing roadway/traffic.
  - 3. The CONSULTANT shall identify impacted receivers in accordance with TxDOT's absolute and relative impact criteria.
  - 4. The CONSULTANT shall consider and evaluate all required noise abatement measures for impacted receivers in accordance with the feasible and reasonable criteria.
  - 5. The CONSULTANT shall propose noise abatement measures that are both feasible and reasonable.
  - 6. The CONSULTANT shall determine predicted (future) noise impact contours for adjacent undeveloped property – where development is likely to occur in the near future.

### **Subtask 120.02.07 – Water Quality Impacts**

For each reasonable alternative being considered in the EIS, the CONSULTANT, in coordination with the NEPA TWG, shall determine whether the proposed project requires a Texas Pollutant Discharge Elimination System (TPDES) permit (40 CFR 122.26). The CONSULTANT may, if requested by the AUTHORITY, under a supplemental work authorization, prepare a SW3P.

The CONSULTANT shall briefly describe the streams in the reasonable alternatives study area, including segments listed on 2008 303(d) list for impaired waters and evidence of stream migration, down cutting or aggradation.

**Subtask 120.02.08 – United States Army Corps of Engineers Permits**

- A) Section 10 of the Rivers and Harbors Act (33 USC 403) – For each reasonable alternative being considered in the EIS, the CONSULTANT, in coordination with the NEPA TWG, shall determine whether the proposed project requires a section 10 permit and shall perform coordination with the USACE. The CONSULTANT may, if requested by the AUTHORITY, under a supplemental work authorization, prepare and submit to USACE an application for a section 10 permit and shall obtain a section 10 permit from USACE.
- B) Section 401 of the Clean Water Act (33 USC 1341) – For each reasonable alternative being considered in the EIS, the CONSULTANT, in coordination with the NEPA TWG, shall determine whether the proposed project requires a section 401 permit and shall perform coordination with the USACE. The CONSULTANT may, if requested by the AUTHORITY, prepare and submit to USACE an application for a section 401 permit under a supplemental work order and shall obtain a section 401 permit from USACE.
- C) Section 404 of the Clean Water Act (33 USC 1344) – For each reasonable alternative being considered in the EIS, the CONSULTANT, in coordination with the NEPA TWG, shall determine whether the proposed project requires a section 404 permit (nationwide or individual) and shall perform coordination with the USACE. The CONSULTANT may, if requested by the AUTHORITY, prepare and submit to USACE an application for a section 404 permit (nationwide or individual) under a supplemental work order and shall obtain a section 404 permit from USACE.

**Subtask 120.02.09 – United States Coast Guard Section 9 Permit (33 USC 401)**

- A) The CONSULTANT, in coordination with the NEPA TWG, shall:
  - 1. Determine whether streams or other water bodies crossed by a proposed transportation facility are navigable as defined in the United States Coast Guard Commandant Publication P16591.3A, "Bridge Permit Application Guide."
  - 2. Consult with the United States Coast Guard to obtain coast guard concurrence on navigability and the need, if any, for a United States Coast Guard bridge permit. A Navigation Study, if required, would be conducted **under a supplemental work authorization**.
  - 3. Provide the AUTHORITY and TxDOT with documentation (including all original correspondence) of consultation with the United States Coast Guard.
  - 4. Obtain, if requested by the AUTHORITY, **under a supplemental work authorization**, a United States Coast Guard bridge permit for all bridges crossing navigable waters. The work authorization shall specify the bridges for which the CONSULTANT shall obtain permits. The permit(s) shall be obtained in accordance with the United States Coast Guard Commandant Publication P16591.3A, "Bridge Permit Application Guide."

**Subtask 120.02.10 – Determining Impacts to Waters of the U.S. and Wetlands**

The CONSULTANT shall conduct a field survey of each reasonable alternative to identify potential wetlands within the footprint of the reasonable alternatives. The CONSULTANT shall document the vegetation, hydrologic features, soils criteria, and GPS location for each potential wetland to assist in the jurisdictional determination of the wetland. Wetland determinations shall include field work and compilation of field documentation. Wetland determinations shall be performed in accordance with the 1987 USACE Wetlands Delineation Manual (Technical Report Y-87-1).

If requested by the AUTHORITY, under a supplemental work authorization, The CONSULTANT shall perform a wetland delineation for the recommended preferred alternative including all field work and the compilation of field documentation and report. Wetland delineations shall be performed in accordance with the 1987 USACE Wetlands Delineation Manual (Technical Report Y-87-1). The CONSULTANT shall stake wetland boundaries in the field. .

**Subtask 120.02.11 – Water Body Modifications**

The CONSULTANT shall identify water body modifications to fulfill the requirements of FHWA Technical Advisory 6640.8A (1987) and TAC Title 43, Part 1, Chapter 2, Subchapter B, Rule 2.22.

**Subtask 120.02.12 – Threatened, Endangered or Other Protected Species**

For the purposes of this contract, protected species shall include:

1. All species listed by the United States Fish and Wildlife Service (USFWS) and National Marine Fisheries Service as threatened or endangered or proposed for listing as threatened or endangered, or protected (50 CFR 17.11-12).
  2. All species that are candidates for review for listing by USFWS as threatened or endangered (per most recently updated list in federal register).
  3. Species listed as threatened or endangered species by Texas Parks and Wildlife Department (TPWD) (State of Texas Threatened and Endangered Species Listings, TPWD).
  4. Species protected by the Migratory Bird Treaty Act (50 CFR 10.13).
  5. Species protected by the Bald and Golden Eagle Protection Act.
  6. Species protected by the Marine Mammal Protection Act.
- A) The CONSULTANT 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 project. Existing data shall include the records of the TPWD natural diversity database.

- B) The CONSULTANT shall identify habitat in the vicinity of the reasonable alternatives. Descriptions of habitat types (e.g., forested, prairie, riparian, floodplain, rangeland, agricultural) in the footprint of the reasonable alternatives will be based upon the vegetation types of Texas, including cropland (TPWD, 1984). Impacts to habitat from the project will be quantified and a determination of potential project effect on the species will be made. If the CONSULTANT encounters protected species or habitat for protected species, the CONSULTANT shall notify the AUTHORITY immediately.
- C) If designated critical habitat (50 CFR 17.94-95) has been designated for a federally protected species, the CONSULTANT shall determine whether critical habitat is present in the vicinity of the reasonable alternatives and whether the project will affect that critical habitat.
- D) Section 7 consultation with the USFWS and a Biological Assessment for threatened and endangered species will be conducted under a **supplemental work authorization** once additional information on threatened and endangered species in the study area is obtained.

#### **Subtask 120.02.13 – Invasive Species Studies**

The CONSULTANT shall perform invasive species studies to fulfill the requirements of executive order 13112.

- A) The CONSULTANT shall develop a list of potential invasive species that could potentially occur within the project area utilizing the following databases:
  - 1. The Texas Department of Agriculture and Texas Parks and Wildlife Prohibited Invasive Species List,
  - 2. USDA Natural Resources Conservation Service Invasive and Noxious Weeds database,
  - 3. and the Nature Conservancy's Weed Information Management System
- B) The CONSULTANT shall conduct field surveys to identify existing populations of invasive species in the vicinity of the reasonable alternatives.

#### **Subtask 120.02.14 – Essential Fish Habitat**

The CONSULTANT shall perform essential fish habitat studies to fulfill the requirements of 50 CFR 600.920. The CONSULTANT shall also coordinate the results of the studies with the National Marine Fisheries Service.

- A) The CONSULTANT shall conduct a literature review and field surveys to determine whether the proposed project has the potential to adversely affect Essential Fish Habitat (EFH) as set forth in the 1996 amendments to the Magnuson-Stevens Act.

- B) The CONSULTANT will facilitate consultation with the National Marine Fisheries Service (NMFS), the Gulf Coast Fishery Management Council, and TPWD to satisfy requirements of the Act.
- C) EFH Assessment – The CONSULTANT shall prepare an EFH Assessment that includes:
1. A description of the proposed project,
    - i. purpose
    - ii. location
    - iii. anticipated date of project activities
    - iv. physical impacts of project activities on EFH
  2. results of on-site inspection to evaluate the habitat
  3. an analysis of the potential adverse effects of the project on EFH and the managed species,
    - i. EFH resources affected
    - ii. adverse effects to EFH resulting from project
    - iii. effects on managed species
    - iv. magnitude of effects
    - v. duration of effects
  4. a conclusion regarding the effects of the project on EFH
    - i. measure of severity of impacts
    - ii. spatial extent of impact
    - iii. duration of impact
  5. a description of the proposed mitigation, if applicable.
    - i. measures to avoid, minimize, or compensate for anticipated adverse effects to EFH
- D) The CONSULTANT will prepare a detailed response to the EFH Conservation Recommendations upon receipt consistent with requirements set forth in 50 CFR 600.920(k)(l).

#### **Subtask 120.02.15 – Vegetation**

The CONSULTANT shall evaluate the potential project impacts of each reasonable alternative on the vegetation resources identified in the TxDOT/Texas Parks & Wildlife Department Memorandum of Agreement (MOA).

- A) The CONSULTANT shall provide a general description of the vegetation type as categorized by "The Vegetation Types of Texas" (TPWD, 1984).
- B) The CONSULTANT shall identify any discrepancies between the vegetation types identified as the result of Subtask 120.02.15(A).

- C) The CONSULTANT will utilize maps, aerial photographs, and field surveys to provide a detailed description of the vegetation in the vicinity of the reasonable alternatives. Vegetative parameters to be identified include:
1. the dominant species for each vegetative strata including tree, shrub, vine, and herbaceous layers, if present
  2. the range of the height of trees
  3. the range and average diameter of breast height of trees
  4. percent canopy cover of trees
  5. and acres of the vegetation types
- D) The CONSULTANT shall identify any unusual vegetation features such as unmaintained vegetation, fencerow vegetation, riparian vegetation, trees that are unusually larger than other trees in the area, or unusual or isolated stands of vegetation.
- E) The CONSULTANT shall identify and describe special habitat features including mangrove wetlands, seagrass habitats, resacas, beaches, flats, cliffs and bluffs, lomas, native prairies, ponds, seeps or springs, snags, water bodies, and dense thornbrush habitats.
- F) The CONSULTANT will quantify temporary and permanent impacts to the vegetation identified in Subtask 120.02.15(A-E).
- G) The CONSULTANT shall identify potential habitat that qualifies for non-regulatory mitigation in accordance with the MOA. These habitats include:
1. habitat for Federal candidate species (impacted by the project) if mitigation would assist in the prevention of the listing of the species
  2. rare vegetation series (S1, S2, or S3) that also locally provide habitat for a state-listed species,
  3. all vegetation communities listed as S1 or S2, regardless of whether or not the series in question provide habitat for state-listed species,
  4. bottomland hardwoods, native prairies, and riparian sites, and
  5. any other habitat feature considered to be locally important.
- H) The CONSULTANT, in cooperation with the NEPA TWG, shall facilitate the incorporation of potential vegetative mitigation measures into the comprehensive mitigation plan for the proposed project

#### **Subtask 120.02.16 – Beneficial Landscaping**

The CONSULTANT shall perform beneficial use studies to fulfill the requirements of executive memorandum of April 26, 1994.

- A) The CONSULTANT will develop a list of locally native and commercially available landscaping vegetation consistent with the habitats of the surrounding area. This list will incorporate plant species that are aesthetic, provide environmental benefits, and have relatively low maintenance requirements.
- B) The CONSULTANT will assess project consistency with the executive memo dated April 26, 1994, regarding Beneficial Landscaping.

**Subtask 120.02.17 – Floodplain Impacts**

- A) The CONSULTANT shall determine whether the proposed project has the potential to affect floodplains. Studies for floodplain impacts shall fulfill the requirements of executive order 11988 and 23 CFR 650, subpart A.
- B) The CONSULTANT, in coordination with the NEPA TWG, will:
  - 1. Identify the presence and nature (e.g., zone A, zone AE, zone AE with floodway) of any FEMA mapped floodplains and indicate the existence of any significant development associated with the mapped area and the jurisdiction responsible for the floodplain.
  - 2. Assess potential floodplain impacts associated with each of the reasonable alternatives. Studies for floodplain impacts shall follow the requirements of executive order 11988 and 23 CFR 650, subpart A.

**Subtask 120.02.18 – Wild and Scenic Rivers**

The CONSULTANT shall determine the proposed project's foreseeable adverse effects on rivers in the National Wild and Scenic River System.

**Subtask 120.02.19 – Coastal Barriers**

The CONSULTANT shall identify impacts to coastal barriers and the Coastal Management Zone and coordinate with the General Land Office.

**Subtask 120.02.20 – Archeological Studies**

The CONSULTANT shall perform an archeological background study in accordance with the following specifications.

- A) Archeological Background Studies.
  - 1. The CONSULTANT shall review site files at the Texas Archeological Research Laboratory (TARL) and the Texas Historical Commission (THC) to determine whether previously recorded archeological sites are present in the area to be documented for the EIS. Review of the Texas Archeological Sites Atlas and Texas Historic Sites Atlas shall be used for THC file review unless otherwise



approved by TxDOT. If sites are present, the CONSULTANT shall consult relevant site forms and archeological reports to determine the characteristics of the sites. The CONSULTANT will make copies of the relevant site forms for inclusion in the project technical file. The CONSULTANT shall produce a clearly reproducible map, based on United States Geological Survey (USGS) 7.5' topographic maps, indicating areas where recorded archeological sites are present.

- i. The CONSULTANT shall review National Resource Conservation Service (NRCS) soil maps, Bureau of Economic Geology (BEG) geological maps, planning documents and USGS topographic maps to determine the general landscape characteristics of the study area with respect to the identification of areas where preservation of archeological sites is unlikely as a result of inappropriate geomorphic conditions for preservation of intact archeological sites. The CONSULTANT shall produce a clearly reproducible map, based on USGS 7.5' topographic maps, indicating the areas where preservation of intact archeological deposits is unlikely.
2. The CONSULTANT shall identify Native American tribes to be consulted in accordance with 36 CFR 800. Unless explicitly approved by FHWA and TxDOT, the CONSULTANT shall not perform consultation with Native American tribes **(subject to a supplemental work authorization)**.
3. The CONSULTANT shall perform early coordination with the State Historic Preservation Office (SHPO). Early coordination shall consist of a request for information concerning the project. This request shall incorporate all of the results of archeological background studies, impact evaluations and surveys performed by the CONSULTANT or provided by TxDOT. The CONSULTANT's request for information shall not initiate formal consultation with the SHPO under section 106 of the National Historic Preservation Act (16 USC §470) or the Antiquities Code of Texas (Title 9, Chapter 191, Texas Natural Resource Code).
4. The CONSULTANT shall prepare and submit to TxDOT a statement, in bullet form, clearly describing the tasks performed and results achieved during archeological background studies. Unless approved in advance by TxDOT, the report shall not contain a summary of the culture history of the area of the project.

Reconnaissance surveys, intensive surveys, data recovery and sonar or underwater reconnaissance survey, if necessary, would be conducted **under a supplemental work authorization**, if needed.

### **Subtask 120.02.21 – Historic Resource Studies**

The CONSULTANT shall perform historic resource studies for the reasonable alternatives. Identification, evaluation and documentation tasks shall be completed in accordance with the provisions of the Secretary of the Interior's Standards for identification, evaluation and documentation (48 FR Parts 44716-42). Historic studies shall be performed and documented at sufficient levels to satisfy Texas SHPO

requirements for determining the presence of historically significant properties within the area of potential effects (APE) in accordance with 36 CFR 60 and 13 TAC 26. The CONSULTANT will utilize a TxDOT pre-certified historian and architectural historian to conduct all aspects of this project.

Performance of historic studies shall include the following tasks.

- A) The CONSULTANT will work with agencies and stakeholders to conduct historic constraints studies to identify previously recorded locations of historic properties from SHPO, TxDOT and Cameron County Historical Commission databases. The CONSULTANT shall conduct a records search including a review of the THC's Historic Sites Atlas to identify and map the locations of previously recorded properties, including NRHP properties, Recorded Texas Historic Landmarks (RTHL), Official Texas Historic Markers (OTHM), local historic markers, SAL, and historic cemeteries. The CONSULTANT will plot the locations of previously designated historic properties, historic-age bridges, historic culverts and historic roadside parks on appropriate maps.
- B) The CONSULTANT will prepare a research design submitted to and approved by TxDOT ENV. The research design will establish the APE and the limits of the survey area in coordination with TxDOT ENV as well as SHPO, as appropriate. It will include a project description, proposed APE, historical background and project area characteristics, objectives, preliminary records review, methodology, expected applicable historic contexts, research sources and proposed schedule. As part of the research design the CONSULTANT shall conduct a literature review to establish appropriate historical and cultural contexts for the project area, determine information requirements and direct the survey effort. The research design shall provide a succinct summary of the literature review results, clear descriptions of identification, evaluation and documentation tasks required. In accordance with the terms of the December 2005 Programmatic Agreement for Transportation Undertakings (PA-TU) among FHWA, SHPO, Advisory Council of Historic Preservation (ACHP) and TxDOT, the proposed project APE will be 150 feet beyond the proposed ROW in areas of the project utilizing existing roadway and 300 feet beyond the proposed ROW in areas of the project utilizing new alignment unless negotiated differently with TxDOT and SHPO. The CONSULTANT shall submit four (4) copies of the research design to TxDOT. As appropriate, TxDOT ENV assumes responsibility for transmitting the research design to SHPO. TxDOT ENV assumes responsibility for transmitting TxDOT ENV and SHPO comments, if any, to the CONSULTANT.
- C) The CONSULTANT shall conduct a reconnaissance survey based on the methodology outlined in the approved research design. The reconnaissance survey shall not be implemented without prior approval of the research design by TxDOT ENV. This task includes pre-field archival examinations of maps and possibly aerial photographs for the presence of historic properties and/or historic-age resources (50 years old or older). Each historic resource (defined in accordance with 36 CFR 60

as a building, structure, object, district or site at least fifty (50) years old at the time of letting) within any parcel wholly or partially contained within the APE shall be documented. Note that the criterion of 50 years prior to letting for historic-age is prescribed within the Secretary of the Interior's guidelines for NRHP eligibility and the PA-TU. However, a 45-year cut-off (45 years prior to the letting date) is suggested in the guidelines provided in the September 8, 2006, Draft of Historic Resources Section 106 Review and NEPA Guide published by TxDOT ENV. This report will follow the 45-year cutoff suggested in the TxDOT ENV publication to allow for unforeseen delays in letting.

The historic resource reconnaissance survey will be conducted for the reasonable alternatives, including identification, evaluation and documentation tasks in accordance with the provisions of the Secretary of the Interior's Standards for the Identification, Evaluation and Documentation (48 FR Parts 44716-42). The CONSULTANT shall conduct research visits to Cameron County repositories to review other available archival sources and historic maps as a component of the reconnaissance survey.

D) The CONSULTANT shall prepare a draft Historic Resource Reconnaissance Survey Report (draft report) that meets the requirements of PA-TU. At sufficient levels to satisfy requirements for determining the presence of historically significant properties within the APE as outlined in PA-TU, the draft report will include:

1. A historical summary sufficient to establish pertinent historical contexts of project area history (1850-1967) that makes use of appropriate, readily available primary and/or secondary historical information, including historic maps.
2. A brief overview of the results of the reconnaissance survey.
3. Maps with the APE clearly indicated and which also show the location of each historic resource labeled with its appropriate property identification (ID) number. Major street names and other directional landmarks will be indicated on the map. Maps will be based on aerial photographs or other maps provided by TxDOT.
4. An inventory of all historic resources located on parcels wholly or partially within the APE of all of the recommended alternatives.
5. Preliminary recommendations of NRHP eligibility of all the historic resources identified in accordance with 36 CFR 60.
6. Digital photographic documentation for each resource. At a minimum this will include an oblique view of the primary façade and a side elevation for each resource, with the subject filling the frame. All photographs will be 3.5"x5" color representations. All photographs will be well focused and clearly depict architectural and other details relevant to an evaluation of the resource's character-defining features. Photographs will be included in separately labeled pages that clearly identify project name, address of resource and property ID number.
7. An inventory of any historic resources requiring additional research or intensive survey efforts in order to finalize determinations of NRHP eligibility in accordance with 36 CFR 60. Recommendations to TxDOT ENV for the need, if any, to conduct intensive survey efforts or further historical research.

- E) The CONSULTANT will produce four (4) copies of the draft report, with up to 20 site forms per copy, detailing the results of the reconnaissance survey and a CD with the digital version of the draft report.
- F) The CONSULTANT will produce four (4) copies of the Final Reconnaissance Survey Report (final report) that incorporates the comments from TxDOT ENV, FHWA and, if applicable, the SHPO.
- G) The CONSULTANT will prepare NEPA language for the Historic Resources section of the EIS and produce the final report appropriate for submission with the EIS as an appendix.

If intensive surveys are required they will be conducted **under a supplemental agreement**.

#### **Subtask 120.02.22 – Initial Assessment of Hazardous Materials Impacts**

The CONSULTANT shall perform an initial site assessment for potential hazardous materials impacts. The initial site assessment shall determine the potential for encountering hazardous materials in the study area, including possible environmental liability, increased handling requirements and costs and construction worker safety. The assessment shall be in accordance with the applicable sections of TxDOT's current "Hazardous Materials in Project Development Guidance".

The initial site assessment shall also be in general accordance with the American Society for Testing and Materials (ASTM) environmental site assessment standard practices (ASTM E 1527 and ASTM E 1528) or equivalent [i.e., satisfies "due diligence" and "appropriate inquiry" requirements under the Comprehensive Environmental Response and Compensation Liability Act (42 USC 9601(35)(B))].

- A) The CONSULTANT shall determine the appropriate project-specific level of inquiry for the hazardous materials assessment. Preliminary project design and ROW requirements, including project excavation requirements, anticipated ROW acquisition and the demolition or modification of structures, shall be considered in determining the appropriate project-specific level of inquiry. The following components of the initial site assessment shall be reviewed, assessed and/or documented to an appropriate project-specific level:
  - 1. Existing and previous land use information from readily available resources (topographic maps, available aerial photos, ROW maps, files and other information identified by the CONSULTANT.
  - 2. Initial site/corridor field surveys by the hazardous materials expert.
  - 3. Regulatory agency database search (list search) and/or review of regulatory agency files.

4. Additional land use information from less readily available resources such as fire insurance maps, deed records, city directories, property tax files and other sources as appropriate for the project.
5. Interviews with property owners, regulatory agency personnel, employees or others familiar with the site(s) in question.

#### **Subtask 120.02.23 – Visual Impacts**

The CONSULTANT shall identify visual impacts to fulfill the requirements of FHWA Technical Advisory 6640.8A (1987).

#### **Subtask 120.02.24 – Indirect Impacts Analysis**

The CONSULTANT shall identify indirect impacts to fulfill the requirements of Technical Advisory 6640.8A (1987) and TxDOT's December 2006 guidance. The analysis will consist of the following steps:

- A. Scoping
- B. Identification of the Study Area's direction and goals
- C. Inventory of the Study Area's notable features
- D. Identify impact-causing activities of the proposed action and alternatives
- E. Identify potentially significant indirect effects for analysis
- F. Analyze indirect effects
- G. Evaluate analysis results
- H. Assess consequences

#### **Subtask 120.02.25 – Cumulative Impacts Analysis**

The CONSULTANT shall identify cumulative impacts to fulfill the requirements of Technical Advisory 6640.8A (1987) and TxDOT's December 2006 guidance. Consistent with TxDOT's guidance, the CONSULTANT will perform the analysis on (1) those resources which are directly or indirectly impacted by the proposed project and (2) those resources that are currently in poor and/or declining health. The analysis will consist of the following steps:

- A. Identification of the resources to consider in the analysis
- B. Definition of the study area for each affected resource
- C. Description of the current health and historical context for each resource
- D. Identification of direct and indirect impacts that may contribute to the cumulative impact
- E. Identification of other reasonably foreseeable actions that may affect the resources
- F. Assessment of the potential cumulative impacts to each resource
- G. Documentation and discussion of the results
- H. Assessment and discussion of mitigation issues for all adverse indirect and cumulative impacts

### **Subtask 120.02.26 – Construction Impacts**

The CONSULTANT shall identify construction impacts in order to fulfill the requirements of FHWA Technical Advisory 6640.8A (1987).

### **Subtask 120.02.27 – Section 4(f) Evaluations**

The CONSULTANT shall identify Section 4(f) properties in the reasonable alternatives study area in accordance with 49 USC 303. The properties identified shall include all property types listed in 23 CFR 771.135 (49 USC 303). The CONSULTANT shall use existing engineering data and archeological and historical studies to determine whether Section 4(f) properties may be present. If in the CONSULTANT's opinion there is insufficient archeological, historic or engineering data upon which to base a determination of 4(f) status, the CONSULTANT shall contact TxDOT to obtain further direction on how to proceed. If it determined that additional Section 4(f) investigation and documentation is necessary, a supplemental agreement to this work authorization will be required.

### **Subtask 120.02.28 – Conceptual Mitigation Plan**

A) The CONSULTANT shall prepare a draft conceptual mitigation plan. The CONSULTANT will coordinate with agencies and stakeholders through the resource specific mitigation subcommittees of the NEPA TWG to identify and formulate a large-scale, ecosystem-level approach to mitigation. The large scale, ecosystem-level approach will attempt to identify opportunities to appropriately mitigate for all resources in concert over an area large enough to be of ecological significance, yet remain manageable enough to be feasible and cost effective. The conceptual mitigation plan will identify and address environmental mitigation needs required by the proposed project. The conceptual mitigation plan will include:

1. An inventory of impacted resources.
2. A quantified estimate of the aerial extent or nature of each of the potential impacts.
3. A summary of the permitting or regulatory requirements governing the resource.
4. Methodology or measures proposed to mitigate for adverse impacts.
5. Funding and maintenance plan for the mitigation measures.
6. A schedule for the implementation, maintenance, and monitoring of the mitigation efforts.

### **Subtask 120.02.29 – Circulation/Distribution of Approved DEIS/FEIS**

Upon approval of the draft EIS (DEIS), it will be circulated to the NEPA TWG, Cameron County, municipalities and public libraries in the study area. In addition, 60 copies will be provided to TxDOT for official distribution to resource agencies. Upon approval, the final EIS (FEIS) will be circulated to those stakeholders whom provided substantive comments on the DEIS.

The CONSULTANT shall publish legal notices in five local newspapers for the Notice of Availability of the DEIS.

For purposes of this scope, it is assumed that the document will have a total of 400 pages – 300 black and white and 100 color (75 8.5"x11" and 25 11"x17"). It is also assumed that 150 printed copies and 200 CD's of the approved DEIS and 150 printed copies and 200 CD's of the FEIS will be required.

**Subtask 120.02.30 – Comment Resolution Workshop**

The CONSULTANT shall coordinate and attend two comment resolution workshops after receipt of the DEIS comments from TxDOT and FHWA. The workshops shall be held in Austin, Texas with TxDOT, FHWA, the AUTHORITY, and the CONSULTANT. The purpose of the workshops is to discuss comments and resolve issues.

**Subtask 120.02.31 – Preparation of Draft ROD (Record of Decision)**

The CONSULTANT will draft a record of decision (ROD) in accordance with 23 CFR 771. The draft ROD will be submitted to the Authority for review and comment, and coordination with TxDOT and FHWA. The CONSULTANT will be responsible for publishing the ROD in area newspapers. The AUTHORITY, TxDOT and/or FHWA will be responsible for all other ROD publication requirements.

**TASK 120.03 – PUBLIC INVOLVEMENT**

The AUTHORITY's proposed construction of the 2<sup>nd</sup> Access requires the ongoing execution of an outreach effort that will engage the many various stakeholders while providing a consistent message to a diverse population. More than 1.5 million Texans and motorists will be impacted by the project. The project goals are intended to relieve congestion along the corridor, provide safety improvements, support growing tourism to the area and where possible, add to the aesthetic character of the bridge.

The CONSULTANT proposes an ongoing public involvement and communications approach that begins with the project stakeholders in mind and is designed to:

- A) Measure the current public understanding and knowledge of the project.
- B) Gather public input and provide project information.
- C) Gain informed consent for the project, the AUTHORITY's role in the project and the decision making process.
- D) Provide opportunities for interactive participation throughout the planning, environmental, detailed design, ROW acquisition and construction phases.

E) Avoid, minimize and mitigate impacts in the community.

F) Meet the necessary federal and regulatory requirements for public participation including the NEPA, SAFETEA-LU and Limited English Proficiency (LEP) populations.

#### **Subtask 120.03.01 – Public Involvement Plan Update and Contact Log**

A brief, updated plan outlining the next steps of the public involvement activities that support the CSS process will be produced.

We will continue to assemble all instances of public contact outside of public meetings in an electronic contact log, including telephone conversation notes, e-mails, letters, group meeting summaries and property site notifications.

Deliverable:

- Plan – one hard copy and one copy on CD
- Contact Log – copies of all comments and questions are included with the public meeting reports and the final environmental report

#### **Subtask 120.03.02 – Public Hearing**

##### **A) Public Involvement Participation**

1. The CONSULTANT will plan and coordinate one (1) Public Hearing to present the DEIS findings, the recommended preferred alternative and solicit public comments. The CONSULTANT will secure the facility for the Public Hearing on the date and at the location agreed upon by the AUTHORITY for the Public Hearing. In addition, the CONSULTANT will make arrangements for two court reporters, one security guard and one Spanish interpreter (if requested) to be present at the Public Hearing.
2. The CONSULTANT will make all audio/visual arrangements, including rentals, as needed.
3. The CONSULTANT will prepare new user-friendly, bilingual displays (up to six) for the hearing.
4. The CONSULTANT will prepare a PowerPoint graphic presentation and script to be given by the Project team during the Public Hearing.
5. The CONSULTANT will prepare handouts (a welcome guide, an agenda, fact sheet/project overview, preferred alternative map, and comment form). Handouts will be translated into Spanish.
6. In addition, the CONSULTANT will provide official sign-in sheets, indoor and outdoor signage, name tags and other materials required for a public hearing.



7. The CONSULTANT shall provide twelve (12) attendees at the hearing for the purpose of providing informational materials regarding the project, addressing local concerns, staffing the sign-in table and providing meeting management.
8. Team Talking Points and FAQs – In order to respond consistently and accurately to questions that fall outside the bounds of the information presented at small group meetings and the hearing, prepare and distribute material to team members at least one (1) week prior to public hearing to allow sufficient time to study appropriate responses (English)
9. The CONSULTANT will prepare a summary, analysis and comment response report for the Public Hearing to record public comments. The CONSULTANT will respond to up to 100 public comments.

**Deliverables:**

- Facility coordination, including rental and set up
- Vendor coordination for court reporters, audio/visual, security, interpreter
- Up to six (6) exhibits for the hearing
- Presentations materials - PowerPoint in draft, revised and final version; script in draft, revisited and final version
- Bilingual handouts materials including a welcome guide, an agenda, fact sheet/project overview, preferred alternative map, and comment form in draft, revised and final version
- Meeting materials including official sign-in sheets, signage, and name tags
- 12 attendees at the public meeting
- Team Talking Points and FAQ's
- Hearing summary, analysis and comment response report in draft, revised and final version

**B) Notification of Public Hearing**

- Elected Official Invitation letters (English) from the AUTHORITY will be mailed by the CONSULTANT to elected officials prior to public advertising and mailings for the hearing.
- Public Officials Briefings and Communications – The public involvement team will work with the AUTHORITY to keep public officials informed and engaged in the project through one round of briefings (total of 4 meetings) before the hearing and regular communications as needed. Includes development of meeting list, official contact letter, agenda, meeting arrangements, sign in sheets, a transcription of meeting notes and attendance.
- Legal Ads – Place legal ads in five (5) local area publications (two placements in each paper prior to the hearing, including approximately thirty (30) and ten (10) days in advance of the hearing.) One of the publications will be a Spanish language paper.

**Suggested Publications**

- The Brownsville Herald
- PI/SPI Press
- El Nuevo
- Valley Morning Star

- Island Breeze
- Flyers/postcards – Mailed to entire contact list approximately two (2) weeks prior to the hearing and distributed to the CONSULTANT's offices, chambers of commerce, libraries and neighborhood associations in the project area\
- Email Blast – to all TWG members and others who have provided their email contact information (English)
- Public Service Announcements – Sent to local radio stations, in English and Spanish, five (5) total of 10, 20 and 30 second length
- Website Update– Post notice on project website and forward to the AUTHORITY for posting on the AUTHORITY's web page.
- Signs – Place electronic mobile signs at the 2<sup>nd</sup> Access and other visible locations (total of two), write copy for signs
- News Releases – Write and distribute one round of news releases previous to public hearing. English only. Distributed to all publications and electronic outlets, including websites.
- Requests for Advance Coverage – two rounds
- Community Calendar – insertions distributed to area community calendars – one round

**Deliverables:**

- Draft, revised and final elected officials' letter
- List of potential Public Officials Briefings participants
- Public Officials Briefings materials development and printing
- Draft, revised and final letter of invitation for the Public Officials Briefings, mailing and handling of distribution
- Public Officials Briefings Agenda draft, revised and final
- Attendance at Public Officials Briefings, notes transcription, and follow up as necessary (total of 4)
- Draft, revised and final legal ad
- Draft, revised and final flyer/postcard (bilingual)
- Draft, revised and final email blast (English)
- Mailing and distribution handling of flyer/postcard
- Draft, revised and final PSA's (English and Spanish), total of three (3)
- Website copy, message writing
- Electronic mobile signs, copy and placement
- Draft, revised and final news release (English and Spanish), distribution
- Draft, revised and final Requests for advance coverage – two rounds
- Draft, revised and final Community Calendar insertions, distribution

**Subtask 120.03.03 – Stakeholder Mailing List Update**

Using the mailing list developed in Phase II as a starting point, update the contact list with interested stakeholder-citizens and businesses who have contacted, requested information or made comments to the project, attended a meeting, been recently elected to a public office, or anyone who has moved into the area since the initial list

was compiled. The update will include changes with local and governmental officials, agency or organizational contact changes, community coalition representatives and media contacts.

**Deliverable:**

- Updated contact list

**Subtask 120.03.04 – Public Involvement Technical Working Group (TWG)**

A working group of AUTHORITY, TxDOT, FHWA representatives and representatives from civic, community and neighborhood leaders from within the project area, as well as other key stakeholders as identified, was formed in Phase II of the SPI 2<sup>nd</sup> Access Project. By serving as the voice of the community, the Public Involvement TWG has participated in a process that helps to ensure that critical local and regional community concerns and issues have been considered during the project development process. Because members of the Public Involvement TWG are closely tied to the local populations, they will continue to be instrumental in providing local perspective and also serve as one of several methods of communicating project information to the general public.

The role of the Public Involvement TWG will continue to be:

- A) A representative voice of the public.
- B) A sounding board for the CONSULTANT.
- C) A source of input for improving the efficiency and efficacy of public outreach efforts.
- D) Assistance in communicating the project message to the general public.

The Public Involvement TWG will meet within two (2) months of receiving notice to proceed to review information received by public comment from the third meeting and to provide additional input to the AUTHORITY and CONSULTANT. An Interim Report will be produced immediately following this PITWG to include input gathered from all three (3) TWG's that were held during the public meeting process (Phase II).

The PITWG will meet thereafter approximately every six months, including immediately before and after the public hearing for a maximum of five (5) meetings during Phase III.

The CONSULTANT will coordinate venue arrangements, prepare a meeting notice and distribute, provide presentations and materials, and prepare meeting minutes for distribution to committee members (English only).

Following the Public Hearing and the last PITWG, the CONSULTANT will produce a final report of the PITWG meetings and process.

**Deliverables:**

- Draft, revised and final agenda for each meeting (maximum of 5)
- Draft, revised and final presentations for each meeting (maximum of 5)
- Draft, revised and final meeting materials (including handouts) for each meeting
- Meeting planning and logistics including room reservations, set up and catering for each meeting
- Follow up as necessary for each meeting
- Draft, revised and final Interim Report of the PITWG meeting following Public Meeting No. 3
- Draft, revised and final version of the Final report of the PITWG meetings following the Public Hearing

**Subtask 120.03.05 –Media Relations**

The CONSULTANT believes it is necessary to openly and effectively communicate with the media during the development of the SPI 2<sup>nd</sup> Access Project, in addition to public notification connected with the public hearing. The CONSULTANT will develop the following:

- A) Media Releases – The CONSULTANT will write, prepare and disseminate up to three (3) English and Spanish releases appropriate for distribution to all media outlets in the affected areas. Releases will specifically be on items such as study results, research findings, recommendations, etc.
- B) Opinion Editorials – **This work is not anticipated at this time.** If needed, a supplemental agreement will be needed for this additional service.
- C) Editorial Board Meetings – **This work is not anticipated at this time.** If needed, a supplemental agreement will be needed for this additional service.
- D) Newspaper Story Pitches – **This work is not anticipated at this time.** If needed, a supplemental agreement will be needed for this additional service.
- E) Ongoing Contact Assistance/General Public Relations – CONSULTANT members will be available to assist with follow up, react and media inquiries related to the project.
- F) Media Kit – **This work is not anticipated at this time.** If needed, a supplemental agreement will be needed for this additional service.
- G) Media Tracking – **This work is not anticipated at this time.** If needed, a supplemental agreement will be needed for this additional service.

**Deliverables:**

- Up to three (3) media releases, including planning, writing, production, dispersal, follow up, and interview coordination

#### **Subtask 120.03.06 – CSS Facilitated Workshops**

A) CSS Community Workshop – The CONSULTANT will prepare, organize and host six (6) CSS Local Community Workshops. Three workshops will be held following the third public meeting (reasonable alternatives) and three workshops will be held prior to the public hearing (preferred alternative). The purpose of these events is to continue the engagement of the local communities in the project development process and to present and discuss the reasonable alternatives to the local community. These workshops will serve as an opportunity to provide the public and the CONSULTANT with initial feedback on ideas, concepts in an open, constructive venue and to develop stakeholder support for the preferred alternative. The CONSULTANT will engage workshop participants in a charrette-style format to conceptualize and discuss the reasonable alternatives and to identify aspects of the various alternatives that address community issues and concerns. Presentation materials such as Powerpoint presentations, graphic exhibits, and handouts will be provided by the CONSULTANT. The GEC TEAM will also be responsible for meeting strategy and logistics.

B) Outreach Summary Report- The design team will prepare a summary report that compiles all presentations, findings, and solutions compiled during all Outreach Meetings and CSS Community Workshops. Solutions and concepts emerging from these meetings/ workshops will be portrayed through rendered plans, elevations, and perspective sketches as well as written findings.

#### **Deliverables:**

- Draft, revised and final agendas (one (1) per meeting/ workshop) (English)
- Draft and final invitation list
- Meeting planning and logistics including room reservations and set up.
- Room layouts and formats
- Two (2) Powerpoint Presentations (estimated one per round of meetings/ workshops) (English)
- Six (6) Mounted Color renderings 30"x42" boards (estimated three (3) per round of meetings/ workshops).
- Supporting handouts and other graphics materials (English)
- Draft, revised and final Meeting Notes (one (1) per meeting/ workshop) (English)
- Display ads and news releases to announce CSS Community Workshops – place display ads in local publications and send news releases to community publications with follow up
- (6) 11x17 bound, color Summary Reports (English)

#### **Subtask 120.03.07 – Final Reports**

A) The CONSULTANT will prepare a summary, analysis and comment response report for the Public Meeting No. 3 to record public comments. The CONSULTANT will respond to up to 100 public comments.

B) The CONSULTANT will prepare a final public involvement report for all public/community involvement efforts throughout the project to record public comments.

**Deliverable :**

- Meeting summary, analysis and comment response report in draft, revised and final version
- Final Report in draft, revised and final version

## **TASK 150 – FIELD SURVEYING AND PHOTOGRAMMETRY**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,** The CONSULTANT will provide professional surveying and aerial mapping services required for the recommended alternative. The standards and specification under which this work will be performed is detailed hereinafter under “Standards and Specifications for Surveying Services.”

### **TASK 150.01 – FIELD SURVEYING**

#### **Subtask 150.01.01 – Horizontal and Vertical Control**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- A) Utilizing static Global Positioning System (GPS) methods, the Subconsultant will establish primary horizontal and vertical control for the project based on the Texas Coordinate System NAD 83/93, NAVD 88 Datum, South Zone (U.S. Survey Feet) adjusted to surface using a surface adjustment factor to be specified by the AUTHORITY. Primary control points (Type II concrete monuments with aluminum caps stamped with a unique alphanumeric identifier) will be established at approximate two (2) mile intervals along existing TxDOT maintained roadways within the study area.
- B) The Subconsultant will prepare a control recovery sheet, to TxDOT specifications, for each primary control point containing a sketch of the point with measurements to a minimum of three (3) ties to permanent fixed objects near its location. Provide coordinates, metadata and other pertinent information.
- C) The Subconsultant will prepare and submit to the AUTHORITY an original “Control Book” or “Horizontal and Vertical Control Survey Report” containing control data sheets for all source monumentation, control recovery sheets for all project primary control points, an ASCII point list containing all final horizontal and vertical control values and a detailed GPS report.

**Subtask 150.01.02 – Ownership Research and Permission to Survey  
UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- A) The CONSULTANT will verify current ownership in the Cameron County Tax Appraisal Offices for all privately owned properties which access will be needed for any tasks listed herein. A current ownership list of the adjoining properties will be created in Excel format and a copy of this list will be provided to the AUTHORITY. No deed or easement research will be performed as part of this scope of services.
- B) The CONSULTANT will attempt to obtain ROE by signed letter from each of the private property owners contained in the above-mentioned ownership list. A draft copy of the ROE letter will be provided to the AUTHORITY for approval prior to any mailings. The results of mailings will be recorded and reported for future action. Also, when necessary, the CONSULTANT, will contact property owners in advance of field surveys or to address specific property owner concerns about the work to be performed or being performed. It is anticipated that the AUTHORITY will assist with problems regarding landowners who refuse to grant ROE or are otherwise hostile with respect to the completion of this scope of services. No tasks listed in this scope of services that require access onto private property will be performed without signed right of entry from the landowner.

**Subtask 150.01.03 – Low Altitude Aerial Mapping (Preferred Alternative Alignment)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- A) The Subconsultant shall acquire color aerial photography at an altitude of eighteen hundred 1,200 feet, resulting in a negative scale of 1"=200'. This photography will be used to map a 1,200' wide corridor for generation of one (1) foot contours. Note: areas of the design corridor, which are inundated by the waters of the Lower Laguna Madre, will be mapped by Hydrographic Surveying methods listed below.
- B) Aerial Mapping Ground Control
1. Prior to the flight, approximately sixty (60) aerial targets will be set at areas designated by the Subconsultant.
  2. Based upon the project control, surface coordinates and elevations will be determined using RTK GPS
  3. The values for the panels will be provided to the photogrammetrist and to the AUTHORITY in hard copy and ASCII digital format.
- C) Upon notification that the flight to obtain photography will occur, the Subconsultant field crews will perform reconnaissance to confirm that all panels are still in place and in good condition. A second or later reconnaissance mission is not anticipated within this scope and will be handled as an additional service.
- D) The Subconsultant will remove aerial panels on private property after the flight is completed.

- E) Negatives shall be scribed showing date of photography, project name, photo scale, flight line and frame number. Three (3) sets of color paper contact prints will be produced from each negative film frame.
- F) All negatives will be scanned at 10 microns utilizing a RM-3 Weheli Scanner Photogrammetric Scanner for use on softcopy digital photogrammetric workstations.
- G) The triangulation adjustment for each flight strip will meet NMAS requirements. A summary report of the triangulation results is included as a deliverable item.
- H) Mapping will include a DTM consisting of breakline and mass point data suitable for producing specified contour option. TxDOT legend for symbology will be used.
- I) Files shall include as applicable all features listed on the TxDOT current Photogrammetric Mapping Legend symbology and level structure shall be in compliance with the TxDOT current Photogrammetric Mapping Legend.
- J) Color digital orthophoto images will be provided in TIFF, MRSID and HMR image formats with associated geo-reference world files.

**Deliverables: UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- Aerial triangulation summary reports in hard copy and digital format
- Metadata containing all appropriate tabular data in digital form
- Color digital orthophotos in TIFF and MrSID formats with world files for the above-mentioned imagery with associated metadata files
- An appended 2d DGN file in MicroStation V8 format containing low altitude aerial mapping, and supplemental engineering design survey data
- An appended 3d DGN file in MicroStation V8 format containing low altitude aerial mapping, hydrographic survey and supplemental engineering design survey data
- TIN file in GEOPAK 2004 format containing low altitude aerial mapping,
- DAT file in GEOPAK 2004 format containing low altitude aerial mapping,
- Aerial film negatives of the project area

**Subtask 150.01.04 – Supplemental Engineering Design Surveying (Preferred Alternative Alignment)**

**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- A) The Subconsultant will perform on-the-ground design field surveys utilizing conventional surveying methods to include void areas, tie-in areas and visible utilities. The surveys shall include but not be limited to manholes, inlets, utility poles, utilities, clearances at overhead lines crossing the design alignment, curb lines, fences, utility markers, roadway signs, visible ROW markers, critical tie-in points for schematic, culvert and pipe sizes and other visible features that are not shown on the aerial mapping.



- B) The Subconsultant will cross-section existing paved streets and driveways at existing/proposed ROW and provide surface material information for all intersecting roads and driveways based on visual observations.
- C) The Subconsultant will obtain pavement cross sections at five hundred (500) foot intervals on existing pavement between centerline and edge to verify DTM.
- D) The Subconsultant will measure up to six (6) drainage structures to provide information on their size, orientation and material composition. Headwall elevations will be obtained; as well as, flowline elevations, at both upstream and downstream ends of structures.
- E) The Subconsultant will survey existing outfall channels cross culvert locations and will provide survey cross sections of channels at one hundred (100) foot intervals downstream of structure outfall to location where channel flow line elevations allow for positive drainage.
- F) The Subconsultant will incorporate design survey data into existing MicroStation V8 2D and 3D design files using TxDOT standard level library. Append low altitude aerial mapping DTM as appropriate. Each point surveyed will be assigned a feature number or feature name using the TxDOT's standard feature table. Each line of the data shall contain in this order: the point number, northing, easting, elevation and the feature number or feature name

**Subtask 150.01.05– Geotechnical Bore Hole Surveys**  
**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- A) The Subconsultant will stake a maximum twenty (20) soil-boring locations in the field prior to commencement of soil drilling services. The GEC TEAM will restake soil-boring locations a maximum of one (1) additional time in order to maintain field staking of proposed soil boring locations through completion of drilling services. Field stakes will be flagged and labeled to clearly identify each proposed soil boring location. The GEC TEAM will also coordinate with the geotechnical services firm as needed to receive the appropriate water table locations and elevations.
- B) The Subconsultant will field survey the location and elevation of actual soil boring locations and provide directly to the geotechnical services representative, in appropriate electronic and hard copy format, as needed for timely incorporation into the geotechnical investigation documentation. The GEC TEAM will coordinate with the geotechnical services firm as needed to locate any lost boring locations.

**Subtask 150.01.06 – Proposed ROW Staking**  
**UNDER A SUPPLEMENTAL WORK AUTHORIZATION,**

- A) If deemed necessary by the AUTHORITY and upon receipt of written authorization from the AUTHORITY, the Subconsultant will stake (with a 60d nail and wooden stake) and flag proposed ROW lines at points of curvature, points of tangency, points of intersection and two hundred (200) foot maximum intervals along tangents.

For budgeting purposes it is assumed that two (2) separate stakings will be required.

**Deliverables:**

- Project Control Book containing control data sheets for all source monumentation, control recovery sheets for all project primary control points, an ASCII point list containing all final horizontal and vertical control values and a detailed GPS report
- ASCII file with point number, northing, easting, elevation and feature code of all surveyed points
- GEOPAK file of all surveyed points
- Ownership list of all private property owners which access was needed in Excel format
- Copies of all signed ROE letters in ".pdf" format
- Aerial triangulation summary reports in hard copy and digital format
- Metadata containing all appropriate tabular data in digital form
- Color digital orthophotos in TIFF and MrSID formats with world files for the above-mentioned imagery with associated metadata files
- An appended 2d DGN file in MicroStation V8 format containing low altitude aerial mapping, hydrographic survey and supplemental engineering design survey data
- An appended 3d DGN file in MicroStation V8 format containing low altitude aerial mapping, hydrographic survey and supplemental engineering design survey data
- TIN file in GEOPAK 2004 format containing low altitude aerial mapping, hydrographic survey and supplemental engineering design survey data
- DAT file in GEOPAK 2004 format containing low altitude aerial mapping, hydrographic survey and supplemental engineering design survey data
- Aerial film negatives of the project area
- Field book copies in PDF format

**SPECIAL PROVISION - 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 Micro Station J (Windows NT) GEOPAK 2000 Computer Aided Civil Engineering (CAiCE) Survey Data Management System (SDMS)
Word Processing:	Microsoft Word
Database:	Microsoft Access/ Microsoft Editor
Spreadsheets:	Microsoft Excel
Archiving Software:	PKZIP DOS & Windows Windows NT

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

Each CD submitted shall include a Micro Soft Word document titled index.doc which shall provide an index of the directory structure, name of files within directories, and a concise description of each file. Directories shall 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 CONSULTANT and approved by the AUTHORITY.

Because data stored on electronic media can deteriorate or be modified undetected, CONSULTANT shall not be held liable for the completeness or accuracy of the electronic data after the receipt by AUTHORITY.

## B. SPECIAL PROVISION – THE STANDARD MAIN DIRECTORY STRUCTURE TABLE

The following Standard Main Directory Structure Table shall 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), 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. (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**  
(Latest Versions)

1. 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

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

**EXHIBIT C  
WORK SCHEDULE**

GENERAL ENGINEERING CONSULTANT SERVICES

This Work Authorization shall become effective April 1, 2009 and shall terminate on April 30, 2011, unless extended by a Supplemental Work Authorization.



# Summary All Firms

SOUTH PADRE ISLAND 2ND ACCESS PROJECT  
Work Authorization No. 17 Exhibit D - Fee Schedule  
Basis of Lump Sum Fee  
DRAFT ONLY - FOR DISCUSSION

		HNTB	Cobblestone	SWCA	RODS	Ambiotec	PSI	Total
		Labor Cost	Geotechnical	Archeology(SWA)	Aerial Survey(SWA)	Eng support	Economic Study	
TASK 110	ROUTE AND DESIGN STUDIES							
	TASK 110.01 - PROJECT ADMINISTRATION AND COORDINATION	\$ 497,090						\$ 497,090
	TASK 110.02 - DATA COLLECTION/EXISTING CONDITION ANALYSIS	\$ 59,442						\$ 59,442
	TASK 110.04 - PRELIMINARY ENGINEERING SERVICES	\$ 338,622						\$ 338,622
	TASK 110.08 - TRAFFIC VOLUME DEVELOPMENT (Coordination w/ C&M only)	\$ 8,506						\$ 8,506
	TASK 110.09 - INNOVATIVE FINANCING SUPPORT (SWA)	\$ -						\$ -
	TASK 110.11 - ECONOMIC STUDY	\$ 12,893						\$ 12,893
	SUBTOTAL FOR ALTERNATIVES ANALYSIS (5 ALTERNATIVES)	\$ 916,552	\$ -	\$ -	\$ -	\$ -	\$ 247,984	\$ 1,164,536
TASK 120	SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES							
	TASK 120.01 - ENVIRONMENTAL IMPACT STATEMENT (EIS)	\$ 200,425						\$ 200,425
	TASK 120.02 - AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES	\$ 1,268,868		\$ 50,000				\$ 1,318,868
	TASK 120.03 - PUBLIC INVOLVEMENT	\$ 308,677						\$ 308,677
	SUBTOTAL EIS & PUBLIC INVOLVEMENT	\$ 1,777,971		\$ 50,000	\$ -	\$ -	\$ -	\$ 1,827,971
TASK 150	FIELD SURVEYING AND PHOTOGRAMMETRY (SWA)	\$ -						\$ -
	SUBTOTAL SURVEY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Labor	\$ 2,694,523	\$ -	\$ 50,000	\$ -	\$ -	\$ 247,984	\$ 2,992,507
	Total Expenses	\$ 283,919						\$ 283,919
	Total Labor and Expenses	\$ 2,978,442	\$ -	\$ 50,000	\$ -	\$ -	\$ 247,984	\$ 3,276,442



**HNTB**  
**SOUTH PADRE ISLAND 2ND ACCESS PROJECT**  
**Work Authorization No. 17, Exhibit D - Fee Schedule**  
**Basis of Lump Sum Fee**

TASK 110	Contracted Rates		Senior Technical Advisor	Project Principal	Project Director	Senior Project Manager	Deputy Project Manager	Senior Engineer	Engineer	Technician	ENV Project Director	Senior ENV Planner	ENV Planner III	ENV Planner II	Public Involvement Director	Public Involvement Outreach	Public Involvement Rep.	Information Tech. Engineer	Senior Project Admin.	Project Admin	Clerical/ Admin.	TOTALS
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
ROUTE AND DESIGN STUDIES																						
TASK 110.01 - PROJECT ADMINISTRATION AND COORDINATION																						
Subtask 110.01.01 - General Administration																						
A) Coordinate, Execute and Administer Work Authorization																						
B) Progress Reports and Invoices																						
C) Record Keeping and File Management																						
D) Correspondence																						
E) Schedule																						
Subtask 110.01.02 - Management, Coordination and Technical Work Groups																						
A) Executive Committee Meetings (4) (2 people)																						
B) Steering Committee Meetings (2) (6 people)																						
C) Technical Working Groups (TWG) Meetings																						
1) Engineering TWG Meetings (8) (3 people)																						
2) NEPA TWG Meetings (6) (3 people)																						
3) Public Involvement TWG Meetings (4) (3 people)																						
4) Economic Development TWG Meetings (2) (2 people)																						
5) Funding TWG Meetings (2) (2 people)																						
D) Alternatives Evaluation Coordination Workshop																						
E) Internal Progress Meetings (24)																						
TASK 110.01 SUBTOTAL (GEC TEAM)																						
TASK 110.01 SUBTOTAL (GEC OVERSIGHT TEAM COORDINATION)																						
TASK 110.01 SUBTOTAL (HNTB)																						
TASK 110.02 - DATA COLLECTION/EXISTING CONDITION ANALYSIS																						
Subtask 110.02.01 - Reasonable Alternatives Data Collection																						
A) Review and Update Previous Data Collection																						
B) Update Summary Document																						
Subtask 110.02.02 - Existing Condition Analysis																						
A) Geometric Features																						
B) Traffic Control/Illumination Features																						
C) Accident Data																						
D) Drainage Data																						
E) Environmental Features and Constraints																						
G) Gulf Intercoastal Waterway Data and Features																						
H) GIS Map Data																						
I) MPO TransCAD model																						
F) Prepare Existing Conditions Analysis Summary Document																						
Subtask 110.02.03 - Right-of-Way (ROW) Research and Mapping																						
A) Research ROW Ownership (continued from Phase 2)																						
B) Incorporate Ownership into alignment base map																						
TASK 110.02 SUBTOTAL (GEC TEAM)																						
TASK 110.02 SUBTOTAL (GEC OVERSIGHT TEAM COORDINATION)																						
TASK 110.02 SUBTOTAL (HNTB)																						
TASK 110.03 - Task Deleted																						
TASK 110.04 - PRELIMINARY ENGINEERING SERVICES																						
Subtask 110.04.01 - Preliminary Design Concept Conference																						
A) Prepare DSR Form																						
B) PDCC Support and Attendance																						
C) Revised Draft of DSR																						
Subtask 110.04.02 - Preliminary Horizontal and Vertical Conceptual Design																						
Subtask 110.04.03 - Preliminary ROW Requirements																						
Subtask 110.04.04 -Preliminary Utility Location Investigations																						
A) Preliminary Utility Location Map																						
B) Utility Coordination Meetings																						
Subtask 110.04.05 - Preliminary Hydraulic Evaluations																						
A) Field Investigations and Data Gathering																						
B) Agency Coordination																						
Subtask 110.04.06 - Crossing Structural and Modal Type Study																						
Technical Memorandum on structural and modal Alternatives																						
Subtask 110.04.07 - Preliminary Construction Cost Estimates (6 alternatives)																						
Subtask 110.04.08 - Preliminary Constructability Reviews																						
Subtask 110.04.09 - Preliminary Engineering Text and Coordination for DEIS and FEIS Development																						
TASK 110.04 SUBTOTAL (GEC TEAM)																						
TASK 110.04 SUBTOTAL (GEC OVERSIGHT TEAM COORDINATION)																						
TASK 110.04 SUBTOTAL (HNTB)																						

HNTB  
SOUTH PADRE ISLAND 2ND ACCESS PROJECT  
Work Authorization No. 17: Exhibit D - Fee Schedule  
Basis of Lump Sum Fee

	Senior Technical Advisor	Project Principal	Project Director	Senior Project Manager	Deputy Project Manager	Senior Engineer	Engineer	Technician	ENV Project Director	Senior ENV Planner	ENV Planner III	ENV Planner II	Public Involvement Director	Public Involvement /Outreach	Public Involvement Rep.	Information Tech. Engineer	Senior Project Admin.	Project Admin	Clerical/ Admin.	TOTALS
TASK 110 SUBTOTAL (GEC TEAM)	266	68	716	604	116	560	778	530	184	132	130		108		36	348	8	422	70	5076
TASK 110 SUBTOTAL (GEC OVERSIGHT COORDINATION)			152			254	101													507
TASK 110 SUBTOTAL (HNTB)	266	68	868	604	116	814	879	530	184	132	130		108		36	348	8	422	70	5583
TASK 120																				
TASK 120.01 - SOCIAL ECONOMIC AND ENVIRONMENTAL STUDIES																				
TASK 120.01 - ENVIRONMENTAL IMPACT STATEMENT (EIS)																				
Subtask 120.01.01 - Identifying the Study Area for the Environmental Document (WA No. 12)																				
Subtask 120.01.02 - Project Initiation Letter (WA No. 10)																				
Subtask 120.01.03 - Notice of Intent (WA No. 12)																				
Subtask 120.01.04 - Resource and Regulatory Agency Coordination		8							192	192	192									584
Subtask 120.01.05 - Need and Purpose Statement (WA No. 10)																				
Subtask 120.01.06 - Environmental Constraints Mapping									2	60	60	20								142
Subtask 120.01.07 - Alternatives Development Analysis		4							24	40	48	48								164
Subtask 120.01.08 - Administrative Record		4							40	80	88	48							120	380
TASK 120.01 SUBTOTAL (GEC TEAM)		16	38			84	25		258	372	388	116							120	1270
TASK 120.01 SUBTOTAL (GEC OVERSIGHT TEAM COORDINATION)						64	25		258	372	388	116							120	127
TASK 120.01 SUBTOTAL (HNTB)		16	38			64	25		258	372	388	116							120	1387
TASK 120.02 - AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES																				
Subtask 120.02.01 - Analysis of Social and Economic Impacts																				
A) Potential Social Impacts									4	4	120									128
B) Identify Property Owners									2	2		40								44
C) Identify Potential Displacements									8	16	48									72
D) Replacement Housing and Report Results									4	8	50									62
E) Identify Racial, Ethnic and Income Level									2	4	32	16								54
F) Mitigation Measures for Social, Economic and Community Impacts									8	16	32	16								72
G) Public Contact and Public Involvement to Gather Information									4	8	16	8							20	56
H) Impacts to Economic Development									4	8	16	8								36
I) Land Use Plans and Windshield Surveys									20	40	80	40								180
J) Evaluate Travel Modes and Patterns									8	16	32	16								72
Subtask 120.02.02 - Environmental Justice		8							40	80	100	100								328
Subtask 120.02.03 - Consideration of Pedestrians and Bicycles									2	2	20									24
Subtask 120.02.04 - Farmland Impacts									2	2	24	8								36
Subtask 120.02.05 - Air Quality Analysis																				
A) Computer Modeling of Current and Future Year Peak-Hour Carbon Monoxide Concentrations									12	24	48	24								108
B) Compare Current and Future Year Peak-Hour Carbon Monoxide Concentrations									12	24	48	24								108
C) Air Quality Report											16									16
D) Modeling Documentation											16									16
E) Qualitative Assessment of Mobile Source Air Toxics (MSATs)									2	2	76									80
Subtask 120.02.06 - Traffic Noise Analysis																				
A) Identify Representative Receivers									6	32	32									70
B) Determine Existing and Predicted Noise Levels									6	375	375									756
Subtask 120.02.07 - Water Quality Impacts											24									24
Subtask 120.02.08 - United States Army Corps of Engineers Permits																				
A) Section 10 of Rivers and Harbors Act (33 USC 403)									8	16	32	16								72
B) Section 401 of the Clean Water Act (33 USC 1341)									8	16	32	16								72
C) Section 404 of the Clean Water Act (33 USC 1344)									8	16	32	16								72
Subtask 120.02.09 - United States Coast Guard Section 9 Permit (33 USC 401)									5	10	40	40								95
Subtask 120.02.10 - Determining Impacts to Waters of U.S. and Wetlands									20	40	350	150								560
Subtask 120.02.11 - Water Body Modifications									8	8	92	80								188
Subtask 120.02.12 - Threatened, Endangered or Other Protected Species																				
A) Determine Presence of Protected Species or Critical Habitat									12	12	80	80								184
B) Identify and Quantify Habitat Impacts									12	12	220	140								384
Subtask 120.02.13 - Invasive Species Studies									1	1	38									40
Subtask 120.02.14 - Essential Fish Habitat									12	12	150	46								220
Subtask 120.02.15 - Vegetation									10	10	160	40								220
Subtask 120.02.16 - Beneficial Landscaping											16									16
Subtask 120.02.17 - Floodplain Impacts																				
A) Potential Impacts to Floodplains									2	4	8	8								22
B) Assess Floodplain Impacts									4	8	60	8								80
Subtask 120.02.18 - Wild and Scenic Rivers									1	1	4									6

HNTB  
SOUTH PADRE ISLAND 2ND ACCESS PROJECT  
Work Authorization No. 17, Exhibit D - Fee Schedule  
Basis of Lump Sum Fee

		Senior Technical Advisor	Project Principal	Project Director	Senior Project Manager	Deputy Project Manager	Senior Engineer	Engineer	Technician	ENV Project Director	Senior ENV Planner	ENV Planner III	ENV Planner II	Public Involvement Director	Public Involvement /Outreach	Public Involvement Rep.	Information Tech. Engineer	Senior Project Admin.	Project Admin	Clerical/ Admin.	TOTALS
										16	16	100	48								180
										10	12	38									80
										8	40	8									56
										8	36	8									52
											160	160									320
										12	350	170									532
										2	4	4								8	18
										2	4	4								8	18
										2	34	4									40
										5	10	120	40								175



**HNTB**  
**SOUTH PADRE ISLAND 2ND ACCESS PROJECT**  
**Work Authorization No. 17, Exhibit D - Fee Schedule**  
**Basis of Lump Sum Fee**

[illegible]

**SOUTH PADRE ISLAND 2ND ACCESS PROJECT**  
**Work Authorization No. 12, Exhibit D - Fee Schedule**  
**Basis of Lump Sum Fee**

EXPENSES				
	Unit	Amount	Contract Rate	Cost
<b>Admin Travel</b>				
Airfare (Lowest available coach fare) 2 meetings per month	ROUNDTRIP	48	\$350.00	\$16,800.00
Automobile Mileage	MILE	500	\$0.550	\$275.00
Lodging "+ tax"	DAY	48	\$85.00	\$4,080.00
Rental Vehicle "+ tax"	DAY	48	\$50.00	\$2,400.00
Airport Parking	DAY	48	\$13.00	\$624.00
Per Diem	DAY	48	\$36.00	\$1,728.00
<b>Subtotal</b>				<b>\$25,907.00</b>
<b>Printing/Reproductions -DEIS and FEIS</b>				
B&W Copies 8.5" x 11" (unless already included in overhead)	EA	170,000	\$0.070	\$11,900.00
Color Copies 8.5" x 11" (unless already included in overhead)	EA	35,000	\$0.78	\$27,300.00
Color Copies 11" x 17" (unless already included in overhead)	EA	9,000	\$1.55	\$13,950.00
Plots	EA	4,000	\$20.00	\$80,000.00
Color Plots	EA	4,000	\$1.64	\$6,560.00
CD Copying	EA	400	\$4.50	\$1,800.00
Exhibit Boards	SQ FT	100	\$7.35	\$735.00
Reproduce Plan Sets	EA	200	\$100.00	\$20,000.00
<b>Subtotal</b>				<b>\$162,245.00</b>
<b>Regulatory Database Report</b>				
	EA	5	\$250.00	\$1,250.00
<b>Subtotal</b>				<b>\$1,250.00</b>
<b>Delivery</b>				
Courier, Overnight, Deliveries, Postage	EA	36	\$20.00	\$720.00
<b>Subtotal</b>				<b>\$720.00</b>
<b>Public Involvement</b>				
PI Plan, Procedures Manual and Graphics Guidelines printing, binders	EA	8	\$5.00	\$40.00
Public Official Interviews and Briefings (3) Handout Printing	EA		\$0.85	\$0.00
Speakers' Bureau Kit Purchase	EA		\$45.00	\$0.00
Speakers' Bureau Kit Printing	EA		\$0.65	\$0.00
Editorial Board Briefing Materials Printing (4)	EA		\$4.00	\$0.00
Media Kits Printing (50)	EA		\$2.00	\$0.00
Information Packets Printing (100)	EA	100	\$2.00	\$200.00
Newsletter Design	EA		\$1,700.00	\$0.00
Newsletter Printing (3)	EA		\$1.00	\$0.00
Newsletter Postage	EA		\$0.44	\$0.00
Hotline Monthly Charge	EA	36	\$56.00	\$2,016.00
Web Site Hosting	MO	36	\$190.00	\$6,840.00
Obtain Domain URL	EA	1	\$50.00	\$50.00
Translation - all public materials, media materials, in Phase 3	EA	3	\$1,000.00	\$3,000.00
Visuals, posters for meetings	LS	15	\$60.00	\$900.00
<b>Subtotal</b>				<b>\$13,046.00</b>
<b>Public Hearing</b>				
Airfare (Lowest available coach fare) 6 people	ROUNDTRIP	6	\$350.00	\$2,100.00
Automobile Mileage	MILE	500	\$0.550	\$275.00
Lodging "+ tax" - 2 nights	DAY	12	\$85.00	\$1,020.00
Rental Vehicle "+ tax" - 3 vehicles - 2 days	DAY	6	\$50.00	\$300.00
Airport Parking 2 days	DAY	12	\$13.00	\$156.00
Per Diem- 2 days	DAY	12	\$36.00	\$432.00
Handouts, letter printing	EA	5,000	\$0.070	\$350.00
Exhibit printing	EA	30	\$60.00	\$1,800.00
Translation - all public materials, media materials, for hearing	EA	1	\$1,000.00	\$1,000.00
Interpretation -one public hearing, includes equipment and travel	EA	1	\$750.00	\$750.00
Letter postage	EA	120	\$0.44	\$53.00
Legal Notice Placements - 10 for public hearing, 5 for DEIS NOA, 5 for FEIS NOA, 5 for ROD	EA	25	\$800.00	\$20,000.00
Postcard/Flyer printing/ postage/handling	EA	5,000	\$1.35	\$6,750.00
Electronic highway mobile sign rental - 2 hearing	EA	2	\$600.00	\$1,200.00
Meeting reports printing, binding, 8 copies each meeting	EA	24	\$15.00	\$360.00
Facility, Audio Rental and misc expenses	EA	1	\$4,000.00	\$4,000.00
Court Reporters - 2 for Hearing	EA	2	\$800.00	\$1,600.00
<b>Subtotal</b>				<b>\$42,146.00</b>
<b>Executive committee/ Steering committee/ Workshops (9 meetings)</b>				
Airfare (Lowest available coach fare) - 2 people per meeting	ROUNDTRIP	18	\$350.00	\$6,300.00
Automobile Mileage	MILE	200	\$0.550	\$110.00
Lodging "+ tax" - 2 people per meeting	DAY	18	\$85.00	\$1,530.00
Rental Vehicle "+ tax" one per meeting- 2 days	DAY	18	\$50.00	\$900.00
Airport Parking 2 per meeting	DAY	36	\$13.00	\$468.00
Per Diem	DAY	18	\$36.00	\$648.00
Handouts Printing -	EA	180	\$0.070	\$13.00
Exhibit Printing	EA	9	\$60.00	\$540.00
Letter Printing (1)	EA	20	\$0.070	\$1.00
Letter Postage	EA	20	\$0.44	\$9.00
Facility, Audio Rental and misc expenses	EA	1	\$300.00	\$300.00
Status Report Printing	EA	9	\$15.00	\$135.00
<b>Subtotal</b>				<b>\$10,954.00</b>
<b>Technical Work Groups (24 meetings/2-3 people per meeting)</b>				
Airfare (Lowest available coach fare) - 2 people per meeting	ROUNDTRIP	48	\$350.00	\$16,800.00
Automobile Mileage	MILE	200	\$0.550	\$110.00
Lodging "+ tax" - 2 people per meeting	DAY	48	\$85.00	\$4,080.00
Rental Vehicle "+ tax" one per meeting	DAY	24	\$50.00	\$1,200.00
Airport Parking 2 per meeting	DAY	48	\$13.00	\$624.00
Per Diem	DAY	48	\$36.00	\$1,728.00
Handouts Printing	EA	400	\$0.070	\$28.00
Exhibit Printing	EA	24	\$60.00	\$1,440.00
Letter Printing (1)	EA	160	\$0.070	\$11.00
Letter Postage	EA	160	\$0.44	\$70.00
Facility, Audio Rental and misc expenses	EA	4	\$300.00	\$1,200.00
Status Report Printing	EA	24	\$15.00	\$360.00
<b>Subtotal</b>				<b>\$27,651.00</b>
<b>Total Expenses</b>				<b>\$283,919.00</b>



South Padre Island 2nd Access - Economic Development Study  
Prime Strategies, Inc. - Phase 3 Fee Estimate

	PSI					TxP			
	Principal	Sr. Trans. Planner	Trans. Analyst	Tech.	Admin	Sr. Economist	Economist	Admin	Total
TASK 110.10 - ECONOMIC STUDY	\$227.64	\$100.83	\$75.12	\$55.94	\$75.58	\$160.68	\$133.90	\$53.56	
Subtask 110.10.01 - Economic Development Technical Work Group (TWG)									
Economic Development TWG Meeting No. 3 (1)	12	2	0	0	4	12	12	4	46
Subtotal	12	2	0	0	4	12	12	4	46
Subtask 110.10.02 - Four Study Analyses									
A) Economic Impact of Each Alternative	40	40	0	0	8	120	260	4	472
Subtotal	40	40	0	0	8	120	260	4	472
B) Tax Revenue Impact of Each Alternatives	20	32	0	0	8	80	120	4	264
Subtotal	20	32	0	0	8	80	120	4	264
C) Cost-Benefit Analysis	80	40	20	0	8	80	100	4	332
Subtotal	80	40	20	0	8	80	100	4	332
D) Public Input, Interview, Meetings, and Presentations	30	40	20	0	4	30	48	4	176
Subtotal	30	40	20	0	4	30	48	4	176
E) Assist with EIS Preparation / Documentation	40	40	0	0	0	110	220	4	414
Subtotal	40	40	0	0	0	110	220	4	414
Total Hours	222	194	40	0	32	432	760	24	1704
Direct Labor	\$50,536.08	\$19,561.02	\$3,004.80	\$0.00	\$2,418.56	\$69,413.76	\$101,764.00	\$1,285.44	\$247,983.66

Labor (including Overhead and Profit)  
Expenses  
\$247,984  
\$17,816  
**TOTAL FEE**  
**\$265,800**

PSI Expenses

	Units	Unit Cost	Total
Mileage	500	\$0.505	\$252.50
Travel			\$0.00
6 air trips @ \$350.00 each	6	\$350.00	\$2,100.00
6 rental cars @ \$50.00 each	6	\$50.00	\$300.00
6 parking @ \$15.00 each	6	\$15.00	\$90.00
6 lodging @ \$85.00 each	6	\$85.00	\$510.00
6 meal per diem @ \$36.00	6	\$36.00	\$216.00
Copies			
b/w	2500	\$0.065	\$162.50
color	2500	\$0.750	\$1,875.00
Local Deliveries	10	\$15.00	\$150.00
Overnight Deliveries	10	\$35.00	\$350.00
Faxes	10	\$1.00	\$10.00
Total Expenses			\$6,016.00

TxP Expenses

	Units	Unit Cost	Total
Mileage	500	\$0.505	\$252.50
Travel			
12 air trips @ \$350.00 each	12	\$350.00	\$4,200.00
6 rental cars @ \$50.00 each	6	\$50.00	\$300.00
10 parking @ \$15.00 each	10	\$15.00	\$150.00
30 lodging @ \$85.00 each	30	\$85.00	\$2,550.00
50 meal per diem @ \$36.00	50	\$36.00	\$1,800.00
Copies			
b/w	2500	\$0.065	\$162.50
color	2500	\$0.750	\$1,875.00
Local Deliveries	10	\$15.00	\$150.00
Overnight Deliveries	10	\$35.00	\$350.00
Faxes	10	\$1.00	\$10.00
Total Expenses			\$44,880.00

**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 18 WITH HNTB FOR THE  
WEST LOOP PROJECT**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**  
General Engineering Consultant Services

**WORK AUTHORIZATION NO. 18**  
**WEST LOOP ROAD STUDY**

This Work Authorization No. 18 is made pursuant to the terms and conditions of the Base Contract, effective February 16, 2006, hereinafter identified as the "Agreement", entered into by and between Cameron County Regional Mobility Authority (the "AUTHORITY") and HNTB Corporation (the "CONSULTANT").

**Part 1.** The CONSULTANT will provide the following services:

Develop Route and Environmental Studies for the AUTHORITY. The responsibilities of the CONSULTANT, schedule and fees are further detailed in Exhibits B, C and D.

**Part 2.** Without modification, the maximum amount payable under this Lump Sum Work Authorization No. 18 is **\$431,119.00**. Exhibit D, providing details supporting the amount, is attached and hereby made part of Work Authorization No. 18. The number of focus groups and individual meetings are estimated. Only the labor and expenses associated with meetings that are held will be invoiced. The not to exceed amount for these meetings is **\$122,016.00**. The lump sum amount for services not including these meetings is **\$309,103.00**.

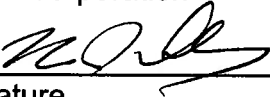
**Part 3.** Payment to the CONSULTANT for the services established under this Work Authorization No. 18 shall be made in accordance with the Agreement.

**Part 4.** Work Authorization No. 18 is effective as of **April 1, 2009** and will terminate **November 30, 2009**, unless extended by an additional Supplemental Work Authorization.

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

**Part 6.** This Work Authorization No. 18 is hereby accepted and acknowledged below.

CONSULTANT:  
HNTB Corporation

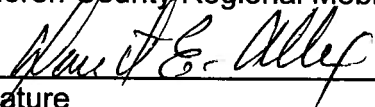
By:   
Signature

Robert J. Slimp, P.E.  
Printed Name

Vice President  
Title

4/20/09  
Date

AUTHORITY:  
Cameron County Regional Mobility Authority

By:   
Signature

DAVID E. ALLEX  
Printed Name

CHAIRMAN  
Title

4/20/09  
Date

LIST OF EXHIBITS

- Exhibit A – Services to be Provided by the Authority
- Exhibit B – Services to be Provided by the Consultant
- Exhibit C - Work Schedule
- Exhibit D – Fee Schedule

**EXHIBIT A**  
**SERVICES TO BE PROVIDED BY THE AUTHORITY**  
**Cameron County Regional Mobility Authority**

County : Cameron  
Highway : West Loop

In addition to the services listed in the Agreement, the AUTHORITY will provide the following services:

1. The AUTHORITY shall authorize the GEC TEAM in writing to proceed.
2. The AUTHORITY/TxDOT will collect and provide hard copy and digital copy of previously completed studies, cost estimates, record drawings, public involvement, traffic data for roadway, property ownership digital mapping, survey ground control and public utility information. These documents include but are not limited to the following:
3. The AUTHORITY shall advise the GEC TEAM of the identity and scope of services of any independent consultants retained by the AUTHORITY to provide services in regard to the project.
4. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY shall communicate this to the GEC TEAM and allow project schedule to be adjusted accordingly.

**EXHIBIT B**  
**SERVICES TO BE PROVIDED BY THE CONSULTANT**  
Cameron County Regional Mobility Authority

**Scope of Project**

The CONSULTANT shall furnish technical resources and materials required to perform the following services for this Work Authorization No 18:

West Loop Public Involvement Activities: The purpose of this task is to determine corridor issues and implement an informed consent process with community residents and business leaders impacted by the West Loop project. This will be accomplished through development of informational materials to be presented in newsletters and through the media as well as conducting neighborhood meetings, small focus group meetings, and most importantly, individual stakeholder meetings. Efforts will culminate in a second public meeting and a corridor issue outreach report to accompany and support the West Loop EA findings and recommendation.

**SCOPE OUTLINE:**

**TASK 1 – PROJECT ADMINISTRATION AND COORDINATION (FC 110)**

**TASK 2 – WEST LOOP ROAD PUBLIC INVOLVEMENT ACTIVITIES (FC 120)**

- Subtask 2.01 –Public Involvement Plan Update
- Subtask 2.02 – Project Mailing List Update
- Subtask 2.03 – Project Public and Media Relations
- Subtask 2.04 – Corridor Issues Determination
- Subtask 2.05 - Public Meeting – Reporting Back
- Subtask 2.06 – Corridor Issues Outreach Report

**SCOPE DETAILS:**

**TASK 1 – PROJECT ADMINISTRATION AND COORDINATION (FC 110)**

The CONSULTANT 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

## **Work Authorization No. 18**

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 C, Project Schedule; and should these reviews indicate a substantial change in progress, the schedule will then be revised accordingly.

### **Deliverables:**

- Monthly progress report that delineates activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle
- Project Schedule
- Records and Correspondence

## **Task 2: WEST LOOP ROAD PUBLIC INVOLVEMENT ACTIVITIES (FC 120)**

Based upon attendance and comments received at the first public meeting for West Loop, held on Thursday, May 29, 2008, and accelerating public interest in the West Loop project, it is recommended that the Authority instigate additional public involvement and media outreach to communicate timely and accurate project-related information to the affected public. The outreach process will also serve as a forum allowing interested parties, affected property owners, special interest groups and other stakeholders to express their views, concerns and ideas regarding the proposed West Loop project; thus, facilitating informed consent for the project.

To assist in these efforts, the CONSULTANT plans to add Lynda Rife (Sub-Consultant) to the public involvement team.

All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations Title 23, Part 771 and the AUTHORITY'S latest policies, procedures and guidance.

**Subtask 2.01 – Public Involvement Plan Update**

The Public Involvement Plan will be updated to provide a revised list of outreach services, deliverables and timeline to solicit community input and participation in the environmental process.

Update of the NEPA Public Involvement Plan

**Deliverables:**

- Updated NEPA PI Process Plan, including Outreach Services, Deliverables and Timeline (2 copies and 1 CD)

**Subtask 2.02 – Project Mailing List Update**

CONSULTANT will update the mailing list with names of stakeholders specific to the West Loop Road Project. Up to 100 additional entries will be managed for the project mailing list.

**Deliverables:**

- One (1) updated project database

**Subtask 2.03 – Project Public and Media Relations**

A) Purchased "Project Update" Placements - To assist in the factual dissemination of project information to affected public, the CONSULTANT will write, prepare and produce two display ads in the *Brownsville Herald* and in other local publications as available. Local placements may include insertions in church bulletins in the affected area, for example. These ads will include writing, production, Spanish translation, and placement.

B) Opinion Editorial (OpEds) - CONSULTANT will interview, write and distribute two (2) opinion editorials to the *Brownsville Herald* on the West Loop project. As proposed, these editorials will be submitted by David Alex. Topics are to be determined. OpEds allow the authority to "speak" to the public using the mass media but without the media filter. CONSULTANT will get agreement with the newspaper outlets to run the Opinion Editorials before they are written.

C) Editorial Board Meetings - CONSULTANT will prepare materials, make contact, plan, practice, and attend two (2) editorial board meetings with the local major newspaper outlet (*Brownsville Herald* and *El Nuevo*). The first and main purpose of the meeting is to create an open dialogue with the editors and the project writer – encouraging balanced coverage – and to be a source of correct



information on the project now and as it progresses. The second purpose of the editorial board meetings is to talk about the project and discuss critical elements, issues and timeline for and the environmental study. The immediate expected outcome of the meeting would be to generate informed comments about the CCRMA and about the project from the editors. Secondly, the effort would be expected to encourage more accurate project articles (covering the CCRMA's point of view) from the assigned writer. Long term, this effort will result in a better relationship and dialogue for all CCRMA projects. Materials will be prepared in both English and Spanish, as both publication editors will be invited to the same meeting. The editorial board will require the attendance of a *maximum* three CONSULTANT staff at each meeting and one CCRMA (county) staff member. Editorial board meetings will be timed to fall before the second public meeting and before the hearing.

D) Project Newsletters - The CONSULTANT will develop and distribute two (2) Project Newsletters that communicate important information related to the project (11x17, two-color, two-fold; bilingual).

F) General Public Relations - The CONSULTANT will provide ongoing contact assistance and general public relations for the project, including before and after the second public meeting and through the hearing, approximately for six (6) months.

**Deliverables:**

- A) Two (2) Display Ads - planning, writing, production, placement, follow up (English and Spanish Versions)
- B) Two (2) Opinion Editorial (OpEd) Piece - planning, writing, pitch, follow up (English and Spanish Versions)
- C) Two (2) Editorial Board Meeting – planning, material production, pitch, attendance and follow up
- D) Two (2) Project Newsletters- Planning, Producing, Printing, Folding, Handling, Mailing, Postage (up to 2500 each) for two newsletters
- E) Ongoing Contact Assistance/General PR (6 months)

**Expenses:**

- Materials and supplies for the editorial board (binders)
- Printing
- Mileage, travel
- Spanish translation (ad and OpEd)
- Local PR Firm

**Subtask 2.04 – Corridor Issues Determination**

The CONSULTANT will undertake a multifaceted public outreach program that will include neighborhood meetings, small group focus meetings, and individual stakeholder meetings followed by a second public meeting. The purpose of the

public outreach program is to: establish a constructive, collaborative partnership with the affected community; identify community issues, concerns and priorities with regard to the proposed West Loop Project; identify the community's vision for the West Loop corridor and the proposed project; and to disseminate accurate, meaningful and timely information in an informal, more engaging setting.

**A) Preparation and Methodology Meetings:** The CONSULTANT will conduct a meeting with the AUTHORITY, and the TxDOT Pharr District to discuss and agree upon the outreach process methodology.

- Working closely with the AUTHORITY, CONSULTANT will coordinate an approach and provide recommendations for meeting goals of the outreach process.
- The outreach process will utilize data obtained from previous meetings (public meeting and stakeholder meetings held earlier in 2008) to determine the number of corridor focus areas that will be affected by the corridor project.
- The CONSULTANT will update Need and Purpose and Socioeconomic information from previous work efforts. This information will be used to prepare two technical memoranda to be utilized as project information during the meeting process described below.
- The results of the meeting and the decisions regarding the meeting process and proposed methodology will be documented in a preliminary meeting memorandum and submitted for approval by the AUTHORITY.

**B) Neighborhood Meetings** – The CONSULTANT TEAM will prepare, organize and host a series of four (4) Neighborhood Meetings. Each meeting will focus on a different geographic area within the West Loop corridor. These meetings will serve to identify the specific issues, concerns and priorities of each particular area. The intent of this effort is to gain insight into the each area's issues, concerns, and needs regarding the project and to engage the groups to discuss solutions for the project that meet their needs. This information will be documented and presented at the Open House and Design Charrette (described later in this document). An open comment period will be included for the meeting attendees to voice their thoughts regarding the project. Presentation materials including a PowerPoint presentation, graphic exhibits and handouts will be provided by the CONSULTANT.

The CONSULTANT will also be responsible for meeting strategy and logistics. All property owners within each of the four identified areas will be invited, via postcard, to the meeting in their respective area.

The CONSULTANT will write and produce a maximum 6 minute PowerPoint presentation, including video clips with local community leaders speaking about the project. This presentation will assure that all audiences receive the same factual information at the beginning of each meeting. Presentation will be produced in both Spanish and English.

Each Neighborhood Meeting will be attended by 5-7 HNTB staff, depending upon the anticipated crowd size

**Deliverables:**

- PowerPoint Presentation
- Invitation Postcards
- Meeting coordination and scheduling
- Need and Purpose and Socioeconomic Technical Memoranda
- Agenda
- Attendee Survey
- Talking Points – writing, prep
- Materials production, including sign in sheets, handouts and visuals
- Attendance at scheduled meetings
- Transcribing, scanning and production of notes
- Meeting Summary Memo – format development, writing, production

**Expenses:**

- Printing of materials
- Mileage, travel
- Spanish translation of materials
- Spanish interpreter
- Facility rental, if needed
- Additional materials and supplies (pens, tape, easels and writing boards, etc)

**C) Small Group Focus Meetings (up to 15 meetings)**

As part of the Neighborhood Meetings described above, area residents and stakeholders will be given the opportunity to request a meeting in a smaller group setting or identified by the GEC. These may include smaller neighborhood or block meetings, church groups, civic clubs, and business organizations. The meeting would consist of a brief project overview followed by an interactive question and answer session. These meetings allow for dissemination of information to groups of people with similar interests while remaining small enough to maintain a personal atmosphere; encouraging communication and the sharing of thoughts, ideas and concerns.

Each of the Small Group Focus Meetings will be attended by 2-3 HNTB staff, as appropriate to the size of the group.

**Deliverables:**

- Meeting coordination
- Agenda
- Attendee Survey
- Talking Points – writing, prep
- Materials production, including sign in sheets, handouts and visuals

- Attendance at scheduled meetings
- Transcribing, scanning and production of notes
- Meeting Summary Memo – format development, writing, production

**Expenses:**

- Printing of materials
- Mileage, travel
- Spanish translation of materials
- Spanish interpreter
- Facility rental, if needed
- Additional materials and supplies (pens, tape, easels and writing boards, etc)

**D) Individual Stakeholder Meetings (up to 50 meetings)**

Attendees at the Neighborhood Meetings and Small Group Focus Meetings will be given the opportunity to sign-up for participation in a one-on-one meeting with project planners. These meetings are typically held in the home of the Stakeholder, but could be held at an alternative location such as a local restaurant, community building, church, or city facility. The casual nature of these meetings provides an opportunity for Stakeholders to interact directly with the project team while focusing the discussion their specific issues, concerns, suggestions and ideas.

No less than two CONSULTANT staff, including, when warranted, a staff person fluent in Spanish, will attend each of these meetings.

**Deliverables:**

- Meeting coordination and scheduling
- Attendance at scheduled meetings
- Transcribing, scanning and production of notes

**TASK 2.05 – PUBLIC MEETING**

Following the outreach activities described above, a second public meeting will be conducted. The public meeting will serve as a forum for updating the public regarding the project development process and for reporting the results of the outreach process. The public meeting will include a presentation followed by an open house. During the open house, attendees will be engaged to further constructively discuss project issues and concerns while working toward solutions that address community issues and concerns. The public meeting will include a public comment session.

The CONSULTANT will secure the site for the date agreed upon for the public meeting. In addition, the CONSULTANT will make arrangements for two (2) court reporters and two (2) Spanish interpreters to be present at the public meeting. The

## **Work Authorization No. 18**

CONSULTANT will also make arrangements for two (2) security officers to be present.

The CONSULTANT will write and mail a letter to all group attendees advising them of the "report back" feature of the open house and inviting them to talk to team members again about the results of the meetings.

The CONSULTANT will develop one (1) legal notice in preparation for the second public meeting. The notice will be placed in two (2) previously identified local papers thirty (30) days and ten (10) days before the public meeting (published a total of four (4) times).

For the second public meeting, the CONSULTANT will prepare a letter of invitation for local and state elected officials, which will be signed and mailed by the AUTHORITY.

The CONSULTANT will prepare (updating where possible from the first public meeting) a welcome guide, fact sheet/project overview (including a summary of project activities to date), location map, comment form, indoor and outdoor signage, sign-in sheets, one (1) single page, double sided) additional handout, eight (8) media kits and exhibit boards (up to six (6)). All project boards and materials will be printed in English, with an additional handout of the boards translated into Spanish. Handouts will be translated into Spanish.

The CONSULTANT will provide a project director, a project manager, two project engineers, up to two (2) environmental staff, two additional (2) technical staff members and four (4) support staff members to staff the Public meeting.

### **Deliverables:**

- Agendas, Welcome Guide, project area, timeline (all bilingual)
- Meeting planning and logistics including room reservations, set up
- Four (4) Mounted Color renderings 30" x 42" boards
- Supporting handouts and other graphics materials for project (English/Spanish)
- Small Group Attendee Letter of Invitation to Public Meeting (Writing of one (1) letter, update mailing list, printing, addressing, stuffing, mailing and postage)
- Legal Noticing
  - Writing of one legal ad for public meeting and open house
  - Translating into Spanish
  - Production of two ads
  - Placement and follow up for two ads to run two times each in Brownsville newspapers
- Elected Officials' Letter
  - Writing (English only)
  - Printing, stuffing, addressing, mailing and postage

## **Work Authorization No. 18**

- Meeting Materials/Meeting Management (Bilingual)
  - Public Meeting planning, design, management
  - Meeting management vendors, including two (2) court reporters, two (2) translators, four (4) security, one (1) AV technician
- Writing, translation, production and printing for:
  - Comment Card
  - Update materials from first public meeting as needed, including project overview, constraints, Purpose & Need
  - Up to 4 new visual displays
  - Sign in sheet
  - Indoor and outdoor signage

### **Expenses:**

- Printing of meeting management materials, posters, handouts
- Mileage, travel related
- Public Open House/Public Meeting facility rental, including any facility staff such as janitor
- Spanish translation of materials
- Four (4) media placements
- Interpreters (2)
- Court Reporters (2)
- Security (2)
- Screen and other AV rental as necessary
- Printing, postage and mailing for one (1) Public Officials' letter, one (1) invitation to the open house/design charrette

### **Subtask 2.06 – Corridor Issues Outreach Report**

The CONSULTANT will prepare a summary report for the corridor issues determination meetings and public meeting, including responses for up to fifty (50) comments/questions.

### **Deliverables:**

- Ten (10) copies of the report
- One (1) copy on CD

### **Expenses:**

- Printing and binders for ten (10) report copies, draft and final
- Copies
- One (1) copy on CD

ID	Task Name	Duration	Start	Finish	Task	Progress	Milestone	Summary	External Tasks	External Milestone	Deadline
1	Project Administration and Coordination (FC 110)	140 days	Mon 3/20/09	Fri 10/9/09							
2	Subcontracting	10 days	Mon 3/30/09	Fri 4/10/09							
3	Prepare Monthly Invoices/Progress Reports/ Presentations	130 days	Mon 4/13/09	Fri 10/9/09							
4	Record Keeping and File Management	130 days	Mon 4/13/09	Fri 10/9/09							
5	Correspondence	130 days	Mon 4/13/09	Fri 10/9/09							
6	Schedule	130 days	Mon 4/13/09	Fri 10/9/09							
7	Managing Change	130 days	Mon 4/13/09	Fri 10/9/09							
8	Subtask 2.01 - Update of Public Involvement Plan (FC 120)	10 days	Mon 3/30/09	Fri 4/10/09							
9	Update List of Deliverables and Timeline	10 days	Mon 3/30/09	Fri 4/10/09							
10	Subtask 2.02 - Project Mailing List Update (FC 120)	10 days	Mon 4/13/09	Fri 4/24/09							
11	Update Project Mailing List	10 days	Mon 4/13/09	Fri 4/24/09							
12	Subtask 2.03 - Project Public and Media Relations (FC 120)	120 days	Mon 4/13/09	Fri 9/25/09							
13	Two (2) display ads	10 days	Mon 4/27/09	Fri 5/6/09							
14	Two (2) Opinion Editorial Piece	10 days	Mon 4/27/09	Fri 5/6/09							
15	Two (2) Editorial Board Meeting	10 days	Mon 4/27/09	Fri 5/6/09							
16	Project Newsletters	10 days	Mon 4/13/09	Fri 4/24/09							
17	Two (2) display ads	10 days	Mon 8/10/09	Fri 8/21/09							
18	Two (2) Opinion Editorial Piece	10 days	Mon 8/10/09	Fri 8/21/09							
19	Two (2) Editorial Board Meeting	10 days	Mon 8/10/09	Fri 8/21/09							
20	Project Newsletters	10 days	Mon 7/27/09	Fri 8/7/09							
21	Ongoing Contact Assistance/General PR (6 months)	120 days	Mon 4/13/09	Fri 9/25/09							
22	Subtask 2.04 - Corridor Issues Determination (FC 120)	160 days	Mon 3/30/09	Fri 8/14/09							
23	Corridor Issues Client Prep/Methodology Meeting	20 days	Mon 3/30/09	Fri 4/24/09							
24	Neighborhood/Area Meetings (4)	40 days	Mon 4/13/09	Fri 6/5/09							
25	Focus Group/Stakeholder Meetings (15)	50 days	Mon 4/27/09	Fri 7/3/09							
26	Individual Residents Meetings (50)	80 days	Mon 4/27/09	Fri 8/14/09							
27	Subtask 2.05 - Public Meeting - Reporting Back (FC 120)	20 days	Mon 9/14/09	Fri 10/9/09							
28	Meeting and Open House	10 days	Mon 9/14/09	Fri 9/25/09							
29	Presentation and Public comment Periods	20 days	Mon 9/14/09	Fri 10/9/09							
30	Subtask 2.06 - Corridor Issues Outreach Report (FC 120)	10 days	Mon 9/28/09	Fri 10/9/09							
31	Summary Report	10 days	Mon 9/28/09	Fri 10/9/09							

Project: WA18 Exhibit C - Schedule.mpr

Date: Wed 4/1/09

Page 1

# EXHIBIT D

## Cameron County Regional Mobility Authority West Loop Road Public Involvement Activities SUMMARY

TASK	TASK/DESCRIPTION		
		Hours	Amount
LUMP SUM TASKS			
TASK 1 PROJECT ADMINISTRATION AND COORDINATION (FC 110)			
	Project Adminstration and Coordination (FC 110)	-	\$ -
	A) Subcontracting	12	\$ 1,110
	B) Prepare Monthly Invoices/Progress Reports/ Presenatations	112	\$ 10,357
	C) Record Keeping and File Management	40	\$ 4,873
	D) Correspondence	32	\$ 5,319
	E) Schedule	38	\$ 5,169
TASK 2 WEST LOOP ROAD PUBLIC INVOLVEMENT ACTIVITIES (FC 120)			
	Subtask 2.01 - Update of Public Involvement Plan (FC 120)		
	A) Update of the NEPA PI Process List of Deliverables and Timeline	47	\$ 7,597
	Subtask 2.02 - Project Mailing List Update (FC 120)		
	A) Update Project Mailing List	50	\$ 4,493
	Subtask 2.03 - Project Public and Media Relations (FC 120)		
	Two (2) display ads	44	\$ 5,368
	Two (2) Opinion Editorial Piece	47	\$ 7,196
	Two (2) Editorial Board Meeting	41	\$ 5,947
	Project Newsletters	68	\$ 8,889
	Ongoing Contact Assistance/General PR (6 months)	53	\$ 7,841
	Subtask 2.04 - Corridor Issues Determination (FC 120)		
	Coordinate Meeting Approach and Goals	89	\$ 12,733
	Develop Two Tech Memos for Meeting Use	82	\$ 13,295
	Preparation and Follow-up for Neighborhood/Area Meetings	290	\$ 42,547
	Attend Neighborhood/Area Meetings (4)	96	\$ 15,382
	Subtask 2.05 - Public Meeting - Reporting Back (FC 120)		
	Meeting and Open House Logistics	44	\$ 4,174
	Meeting and Open House	106	\$ 12,987
	Develop Presentation and Other Open House Materials	145	\$ 16,777
	Develop Responses to Comments	101	\$ 13,547
	Subtask 2.06 - Cooridor Issues Outreach Report (FC 120)		
	Summary Report	148	\$ 21,781
	Subtotal Labor	1,685	\$ 227,382
	HNTB Expenses		\$ 81,722
	LUMP SUM Labor and Expenses		\$ 309,103
TO BE INVOICED BY ACTUAL NUMBER OF MEETINGS			
	Subtask 2.04 - Corridor Issues Determination (FC 120)		
	Focus Group/Stakeholder Meetings (15)	214	\$ 32,402
	Individual Residents Meetings (50)	486	\$ 76,684
		-	\$ -
	Subtotal Labor	700	\$ 109,086
	HNTB Expenses		\$ 12,930
	Not to exceed Labor and Expenses		\$ 122,016
	Total Labor	2,385	\$ 336,467
	Total Expenses		\$ 94,652
	TOTAL Labor and Expenses		\$ 431,119



# EXHIBIT D

**Cameron County Regional Mobility Authority**  
**West Loop Road Public Involvement Activities**

# HNTB Corporation

	TASK/DESCRIPTION	Senior Tech Advisor	Project Principal	Project Director	Senior Project Manager	Deputy Project Manager	Engineer	ENV Project Director	Senior ENV Planner	PI Director	Senior PI Outreach	PI Rep.	Project Administration	Clerical	TOTAL HOURS	TOTAL LABOR
	TASK 1 PROJECT ADMINISTRATION AND COORDINATION (FC 110)															
	1.01 Project Administration and Coordination (FC 110)															
	A) Subcontracting												12		12	\$1,110
	B) Prepare Monthly Invoices/Progress Reports/ Presentations												112		112	\$10,357
	C) Record Keeping and File Management						40								40	\$4,873
	D) Correspondence			8	8	8								8	32	\$5,319
	E) Schedule		4	8			16							10	38	\$5,169
	TASK 2 WEST LOOP ROAD PUBLIC INVOLVEMENT ACTIVITIES (FC 120)															
	2 Subtask 2.01 - Update of Public Involvement Plan (FC 120)															
	A) Update of the NEPA PI Process List of Deliverables and Timeline			1		1		16	8	16	4			1	47	\$7,597
	Subtask 2.02 - Project Mailing List Update (FC 120)															
	A) Update Project Mailing List			3		3				8		12		24	50	\$4,493
	Subtask 2.03 - Project Public and Media Relations (FC 120)															
	Two (2) display ads			4	2	2		4	2	4	6	15		5	44	\$5,368
	Two (2) Opinion Editorial Piece	2		2	1	2		8	12	4	10	4		2	47	\$7,196
	Two (2) Editorial Board Meeting			3	6			6		6	12	6		2	41	\$5,947
	Project Newsletters			4		4		8	8	8	16	16		4	68	\$8,889
	Ongoing Contact Assistance/General PR (6 months)	4		8		8		4		5	8			16	53	\$7,841
	Subtask 2.04 - Corridor Issues Determination (FC 120)															
	Coordinate Meeting Approach and Goals	4	2		7	2		8	8	16	24	16		2	89	\$12,733
	Develop Two Tech Memos for Meeting Use				8			32	32			8		2	82	\$13,295
	Preparation and Follow-up for Neighborhood/Area Meetings	4	8			12		84	84	10	24	24		40	290	\$42,547
	Attend Neighborhood/Area Meetings (4)			16	16			16	16		16	16			96	\$15,382
	Focus Group/Stakeholder Meetings (15)*			2	24	4		60	60	8	16	24		16	214	\$32,402
	Individual Residents Meetings (50)*					12		200	200	8	8	8		50	486	\$76,684
	* These meetings will be shown separately from other tasks on invoice. Only the actual number of meetings that are conducted will be invoiced. Any unused labor and expenses associated with this task will not be invoiced.															
	Subtask 2.05 - Public Meeting - Reporting Back (FC 120)															
	Meeting and Open House Logistics										20	24			44	\$4,174
	Meeting and Open House		2	8	8	8		8	8	8	8	8		40	106	\$12,987
	Develop Presentation and Other Open House Materials		1	4	4	4		10	14	12	36	36		24	145	\$16,777
	Develop Responses to Comments		1	4	4	4		14	18	12	16	12		16	101	\$13,547
	Subtask 2.06 - Corridor Issues Outreach Report (FC 120)															
	Summary Report		2	4	2	6		40	40	10	16	8		20	148	\$21,781
	HNTB Total Hours	14	20	79	90	80	56	518	510	135	240	237	124	282	2385	\$336,467
	LABOR RATE	\$293.55	\$228.97	\$220.17	\$201.08	\$189.34	\$121.82	\$195.21	\$149.71	\$143.84	\$127.70	\$67.52	\$82.47	\$54.30		
	Subtotal - Labor	\$4,110	\$4,579	\$17,393	\$18,097	\$15,147	\$6,822	\$101,119	\$76,352	\$19,418	\$30,648	\$16,002	\$11,466	\$15,313		\$336,467
	FTE	0.0	0.0	0.1	0.1	0.1	0.1	0.5	0.5	0.1	0.3	0.2	0.1	0.3	Expenses	\$94,652
	Over 6 months		6 months	6 months	6 months	6 months	6 months	6 months	6 months	6 months	6 months	6 months	6 months	6 months	TOTAL	\$431,119

# EXHIBIT D

## Cameron County Regional Mobility Authority West Loop Road Public Involvement Activities

### HNTB Corporation Expenses

EXPENSES				
	Unit	Amount	Contract Rate	Cost
<b>Task 2.01 Update of Public Involvement Plan</b>				
B&W Copies 8.5" x 11" (unless already included in overhead)	EA	100	\$0.070	\$7.00
<b>Subtotal</b>				<b>\$7.00</b>
<b>Task 2.02 Project Mailing List Update</b>				
B&W Copies 8.5" x 11" (unless already included in overhead)	EA	50	\$0.070	\$3.50
<b>Subtotal</b>				<b>\$3.50</b>
<b>Task 2.03 Public and Media Relations</b>				
Editorial Board - Materials and supplies	EA	1	\$300.00	\$300.00
Opinion Editorial Expenses (2)	EA	2	\$150.00	\$300.00
Media Relations - Spanish translation of releases, etc	EA	1	\$300.00	\$300.00
Newsletter #1 - Production and mailing of 2,500 newsletters	EA	1	\$2,500.00	\$2,500.00
Newsletter #2 - Production and mailing of 2,500 newsletters	EA	1	\$2,500.00	\$2,500.00
<b>Subtotal</b>				<b>\$5,900.00</b>
<b>Task 2.04 Corridor Issues Determination</b>				
Lynda Rife: SUBCONSULTANT (see attached detail)	EA	1	\$39,255.00	\$39,255.00
<b>Neighborhood Meetings</b>				
Airfare (Lowest available coach fare)	ROUNDRIP	16	\$350.00	\$5,600.00
Automobile Mileage	MILE	640	\$0.550	\$352.00
Lodging "+ tax"	DAY	16	\$85.00	\$1,360.00
Rental Vehicle "+ tax"	DAY	16	\$50.00	\$800.00
Airport Parking	DAY	32	\$13.00	\$416.00
Per Diem	DAY	32	\$36.00	\$1,152.00
Exhibit Boards	SQ FT	200	\$7.35	\$1,470.00
Handout printing	EA	2,000	\$0.07	\$130.00
Visuals Printing	EA	8	\$80.00	\$640.00
Spanish Translation	EA	2	\$850.00	\$1,700.00
Spanish Interpreter	EA	16	\$400.00	\$6,400.00
A/V Rental	EA	8	\$80.00	\$640.00
Facility Rental	EA	8	\$300.00	\$2,400.00
Report printing and binding	EA	50	\$20.00	\$1,000.00
Courier, Overnight, Deliveries, Postage	LS	4	\$25.00	\$100.00
Additional Supplies and Materials (Binders, signage)	EA	1	\$200.00	\$200.00
<b>Subtotal</b>				<b>\$63,615.00</b>
<b>Travel - Focus Group Meetings*</b>				
Airfare (Lowest available coach fare)	ROUNDRIP	10	\$350.00	\$3,500.00
Automobile Mileage	MILE	400	\$0.550	\$220.00
Lodging "+ tax"	DAY	10	\$85.00	\$850.00
Rental Vehicle "+ tax"	DAY	10	\$50.00	\$500.00
Airport Parking	DAY	20	\$13.00	\$260.00
Per Diem	DAY	20	\$36.00	\$720.00
<b>Travel - One on One Meetings*</b>				
Airfare (Lowest available coach fare)	ROUNDRIP	8	\$350.00	\$2,800.00
Automobile Mileage	MILE	480	\$0.550	\$264.00
Lodging "+ tax"	DAY	24	\$85.00	\$2,040.00
Rental Vehicle "+ tax"	DAY	12	\$50.00	\$600.00
Airport Parking	DAY	24	\$13.00	\$312.00
Per Diem	DAY	24	\$36.00	\$864.00
<b>Subtotal</b>				<b>\$12,930.00</b>
<b>Task 2.05 Public Meeting</b>				
Airfare (Lowest available coach fare)	ROUNDRIP	5	\$350.00	\$1,750.00
Automobile Mileage	MILE	120	\$0.550	\$66.00
Lodging "+ tax"	DAY	5	\$85.00	\$425.00
Rental Vehicle "+ tax"	DAY	4	\$50.00	\$200.00
Airport Parking	DAY	10	\$13.00	\$130.00
Per Diem	DAY	10	\$36.00	\$360.00
Spanish Interpreters	EA	2	\$400.00	\$800.00
Spanish Translation	EA	1	\$850.00	\$850.00
Legal notice placements (two placements in two papers)	EA	4	\$750.00	\$3,000.00
A/V Equipment Rental	EA	1	\$400.00	\$400.00
Facility Rental	EA	1	\$1,500.00	\$1,500.00
Court Reporter	EA	2	\$600.00	\$1,200.00
Security	EA	2	\$125.00	\$250.00
Handouts Printing	EA	5,000	\$0.07	\$325.00
Visuals Printing	EA	8	\$80.00	\$640.00
Courier, Overnight, Deliveries, Postage	LS	4	\$25.00	\$100.00
Additional Supplies and Materials (Binders, signage)	EA	1	\$200.00	\$200.00
<b>Subtotal</b>				<b>\$12,196.00</b>
<b>Total Expenses</b>				<b>\$94,651.50</b>

\* These meetings will be shown separately from other tasks on invoice. Only the actual number of meetings that are conducted will be invoiced. Any unused labor and expenses associated with this task will not be invoiced.

Linda Rife

Task				
Informed Consent				
Develop training program				60
Train/advise project personnel				84
Focus Group/Stakeholder Meetings				
Assist in development of goals and objectives				36
Develop meeting agendas				24
Individual Residents Meetings				
Assist in questionnaire development				16
TOTAL HOURS				220
Rate				\$165.00
<b>Subtotal Labor</b>				<b>\$36,300.00</b>

	Unit	Amount	Contract	Cost
			Rate	
<b>Travel</b>				
Airfare (Lowest available coach fare)	ROUNDTRIP	4	\$350.00	\$1,400.00
Automobile Mileage	MILE	100	\$0.550	\$55.00
Lodging "+ tax"	DAY	6	\$85.00	\$510.00
Rental Vehicle "+ tax"	DAY	10	\$50.00	\$500.00
Airport Parking	DAY	10	\$13.00	\$130.00
Per Diem	DAY	10	\$36.00	\$360.00
<b>Subtotal</b>				<b>\$2,955.00</b>

<b>TOTAL FEE</b>	<b>\$39,255.00</b>
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**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 19 WITH HNTB FOR THE  
EAST LOOP PROJECT**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**  
General Engineering Consultant Services

**WORK AUTHORIZATION NO. 19**  
**PASS THROUGH FINANCING**

This Work Authorization No. 19 is made pursuant to the terms and conditions of the Base Contract, effective February 16, 2006, hereinafter identified as the "Agreement", entered into by and between Cameron County Regional Mobility Authority (the "AUTHORITY"), and HNTB Corporation (the "CONSULTANT").

**Part 1.** The CONSULTANT will provide the following engineering services:

Updated the East Loop Pass Through Toll Financing application and evaluate feasibility of additional applications for US281 and FM 509 for the AUTHORITY. The responsibilities of the AUTHORITY, the CONSULTANT and the schedule are further detailed in Exhibits A, B, C and D.

**Part 2.** Without modification, the amount payable for services performed under this Lump Sum Work Authorization No. 19 is **\$34,460.00**. A fee schedule used to establish the amount payable is attached hereto as Exhibit D.

**Part 3.** Payment to the CONSULTANT for the services established under this Work Authorization No. 19 shall be made in accordance with the Agreement.

**Part 4.** This Work Authorization No. 19 is effective as of March 16, 2009 and shall terminate December 31, 2009, unless extended by a Supplemental Work Authorization.

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

**Work Authorization No. 19**

**Part 6.** This Work Authorization No. 19 is hereby accepted and acknowledged below.

CONSULTANT:  
HNTB Corporation

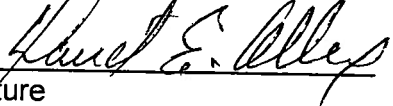
AUTHORITY:  
Cameron County Regional Mobility Authority

By:   
Signature

Robert J. Slimp, P.E.  
Printed Name

Vice President  
Title

4/19/09  
Date

By:   
Signature

David E. Allen  
Printed Name

Chairman  
Title

4-17-9  
Date

**LIST OF EXHIBITS**

- Exhibit A - Services to be Provided by the Authority
- Exhibit B - Services to be Provided by the Consultant
- Exhibit C - Work Schedule
- Exhibit D - Fee Schedule

**EXHIBIT A**  
**SERVICES TO BE PROVIDED BY THE AUTHORITY**  
**PASS THROUGH TOLL FINANCING**

County : Cameron  
Highway : East Loop Road, US 281, FM 509

In addition to the services listed in the Agreement, the AUTHORITY will provide the following services:

1. The AUTHORITY shall authorize the CONSULTANT in writing to proceed.
2. The Texas Department of Transportation (TxDOT) and the AUTHORITY will collect and provide hard copy and digital copy (if available) of previously completed studies, cost estimates, record drawings, public involvement, traffic data for railroad/roadway, property ownership digital mapping and public utility information.
3. The AUTHORITY shall give prompt written notice to the CONSULTANT whenever the AUTHORITY becomes aware of any development that does or may affect the scope or timing of the CONSULTANT'S Services, or any defect in the CONSULTANT'S Scope of Services or its subconsultants.
4. The AUTHORITY shall advise the CONSULTANT of the identity and scope of services of any independent consultants retained by the AUTHORITY to provide services in regard to the Project.
5. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY shall communicate this to the CONSULTANT and allow the project schedule to be adjusted accordingly.

**EXHIBIT B**  
**SERVICES TO BE PROVIDED BY THE CONSULTANT**  
**PASS THROUGH TOLL FINANCING**

County : Cameron  
Highway : East Loop Road, South Port Spur, US 281, FM 509

**Scope of Project**

It is the desire of the AUTHORITY to develop and construct roadway improvements utilizing the Pass Through Financing provisions of the State of Texas House Bill 3588 and the new guidelines indicated in the March 13, 2009 Program Call.

There are three projects that have potential to utilize Pass Through Financing. A Pass Through Financing Application has previously been submitted to TxDOT for the East Loop project in Cameron County, Texas.

The East Loop:

The CONSULTANT will review the new requirements and revise the current application, and submit to TxDOT no later than the May 12, 2009. Assuming the application is approved by the Commission, CONSULTANT support to the Authority during negotiations will be covered under supplement to this Work Authorization.

Evaluate other projects for possible funding:

The CONSULTANT will evaluate whether the South Port Spur, US 281, and FM 509 meet the criteria for Pass Through Toll Financing as described in 43 TAC 5.55. A report and recommendation will be submitted to the Board. For projects deemed eligible, preparation of an application by the May 12 deadline will be accomplished under supplement to this Work Authorization.

**SCOPE DETAILS:**

The following Scope of Work describes the task details that are included in the Services to be provided by the CONSULTANT on the Pass Through Toll Financing Project.

**TASK 145 – PROJECT MANAGEMENT**

**TASK 145.00 – NOTICE TO PROCEED**

The CONSULTANT will not begin work on Project Management and General Engineering Assistance tasks until the AUTHORITY has granted written "Notice to Proceed."



### **TASK 145.01 – PROJECT ADMINISTRATION AND COORDINATION**

The CONSULTANT will perform general management and administration duties required to develop and maintain the project and coordinate with the AUTHORITY, TxDOT, Brownsville MPO, City of Brownsville, property owners and other project team members during the development of the project. The CONSULTANT will prepare a project schedule. The CONSULTANT will perform quality assurance and quality control activities.

### **TASK 145.02 – KICK-OFF MEETING WITH AUTHORITY**

Deleted

### **TASK 145.03 – COORDINATION MEETINGS**

The CONSULTANT will attend up to two (2) team meetings with the AUTHORITY throughout the duration of this Work Authorization on an as-needed basis. The purpose of these meetings is to evaluate the program status, determine necessary adjustments to the project work plan and schedule, plan upcoming events and discuss and resolve key project issues.

### **TASK 145.04 – MEETINGS WITH TxDOT**

The CONSULTANT will schedule and facilitate up to three (3) meetings and work sessions with TxDOT district, headquarters and commission, the AUTHORITY and other involved agencies to present project information and status for project consensus building regarding the Pass Through Financing Application. Negotiation meetings will be included as a supplement to this WA.

#### **Deliverables:**

- Copies of all meeting minutes.
- One (1) copy of Monthly Progress Report and Schedule with Invoice.

### **TASK 110 – GENERAL ENGINEERING ASSISTANCE**

#### **TASK 110.01 – Revise current East Loop application to meet current requirements**

The CONSULTANT will review the new application requirements and revise the current application. The new application will be coordinated with TxDOT. The CONSULTANT will incorporate comments and submit for Commission acceptance.

#### **Deliverable:**

- Three (3) hardcopies and Three (3) PDF digital copies of the Pass Through Financing Application.

**TASK 110.02 – Review other projects for possible funding**

The CONSULTANT will evaluate whether the South Port Spur, US 281, and FM 509 meet the criteria for Pass Through Toll Financing as described in 43 TAC 5.55. A report and recommendation will be submitted to the Board. For projects deemed eligible, preparation of an application by the May 12 deadline will be accomplished under supplement to this Work Authorization.

**Deliverable:**

- Report and presentation to the Board for purposes of deciding which projects to pursue Pass Through Funding..

**EXHIBIT C**  
**WORK SCHEDULE**  
PASS THROUGH FINANCING

This Work Authorization shall become effective March 16, 2009 and shall terminate on December 31, 2009, unless extended by a Supplemental Work Authorization.

**Summary All Firms**  
**PASS THROUGH FINANCING**  
**Work Authorization No. 19 Exhibit D - Fee Schedule**  
**Basis of Lump Sum Fee**

		HNTB	PRIME STRATEGIES, INC.	Total
TASK 145	Task 145.01 - PROJECT ADMINISTRATION AND COORDINATION	\$ 1,180		\$ 1,180
	Task 145.02 - KICK-OFF MEETING WITH AUTHORITY (deleted)	\$ -	\$ -	\$ -
	Task 145.03 - COORDINATION MEETINGS	\$ 881	\$ 2,000	\$ 2,881
	Task 145.04 - MEETINGS WITH TxDOT	\$ 5,202	\$ 1,000	\$ 6,202
	<b>SUBTOTAL</b>	<b>\$ 7,262</b>		<b>\$ 7,262</b>
TASK 110	Task 110.01 - Revise existing East Loop Application	\$ 9,969	\$ 1,000	\$ 10,969
	Task 110.02 - Evaluate other projects	\$ 4,908	\$ 5,000	\$ 9,908
	<b>SUBTOTAL</b>	<b>\$ 14,877</b>		<b>\$ 14,877</b>
	Total HNTB Labor	\$ 22,139	\$ 10,000	\$ 32,139
	HNTB Expenses	\$ 2,321		\$ 2,321
	Total Labor and Expenses	\$ 24,460	\$ 10,000	\$ 34,460

**HNTB**  
**PASS THROUGH FINANCING**  
**Work Authorization No. 19 Exhibit D - Fee Schedule**

		Sen Tech Advsr	Proj Princ	Proj Dir	Sen Proj Mgr	Dpty Proj Mgr	Sen Engr	Proj Admin	TOTALS
	Contracted Rates	\$293.55	\$228.97	\$220.16	\$201.08	\$189.34	\$168.79	\$92.47	
<b>TASK 145</b>	<b>PROJECT MANAGEMENT</b>								
	Task 145.01 - PROJECT ADMINISTRATION AND COORDINATION			2				8	10
	Task 145.02 - KICK-OFF MEETING WITH AUTHORITY (deleted)								
	Task 145.03 - COORDINATION MEETINGS			4					4
	Task 145.04 - MEETINGS WITH TxDOT		8	8	8				24
	<b>HNTB Subtotal Task 145</b>		8	14	8			8	38
<b>TASK 110</b>	<b>GENERAL ENGINEERING ASSISTANCE</b>		\$1,831.75	\$3,082.26	\$1,608.65			\$739.74	\$7,262.40
	Task 110.01 - Revise existing East Loop Application	2	1	4	16		12		51
	Task 110.02 - Evaluate other projects	2	8	4	8				22
	<b>HNTB Subtotal Task 110</b>	4	9	8	24		12		73
	<b>TOTAL HNTB LABOR HOURS</b>	4	17	22	32	16	12	8	111
	Contracted Rates	\$ 293.55	\$ 228.97	\$ 220.16	\$ 201.08	\$ 189.34	\$ 168.79	\$ 92.47	
	Total HNTB Labor Cost	\$1,174	\$3,892	\$4,844	\$6,435	\$3,029	\$2,025	\$740	\$22,139.47
	Total HNTB Expenses (see summary)								\$2,321.00
	Total Subconsultant (Prime Strategies Inc. - Assist with Application strategies, meetings, development and submittal)								\$10,000.00
	<b>Total Labor Plus Expenses</b>								<b>\$34,460.47</b>

**HNTB**  
**PASS THROUGH FINANCING**  
**Work Authorization No. 19 Exhibit D - Fee Schedule**  
**Basis of Lump Sum Fee**

<b>EXPENSES</b>				
	Unit	Amount	Contract Rate	Cost
<b>Travel</b>				
Airfare (Lowest available coach fare)				
Automobile Mileage	ROUNDTRIP	4	\$350.00	\$1,400.00
Lodging "+ tax"	MILE	80	\$0.550	\$44.00
Rental Vehicle "+ tax"	DAY	4	\$85.00	\$340.00
Airport Parking	DAY	4	\$50.00	\$200.00
Per Diem	DAY	4	\$13.00	\$52.00
	DAY	4	\$36.00	\$144.00
<b>Subtotal</b>				<b>\$2,180.00</b>
<b>Printing/Reproductions</b>				
B&W Copies 8.5" x 11" (unless already included in overhead)	EA	200	\$0.10	\$20.00
Color Copies 8.5" x 11" (unless already included in overhead)	EA	50	\$0.80	\$40.00
Color Copies 11" x 17" (unless already included in overhead)	EA	20	\$1.55	\$31.00
Plots	EA	0	\$20.00	\$0.00
Color Plots	EA	0	\$1.50	\$0.00
Reproduce Plan Sets (9 Projects)	EA	0	\$100.00	\$0.00
<b>Subtotal</b>				<b>\$91.00</b>
<b>Delivery</b>				
Courier, Overnight, Deliveries, Postage	Lump Sum	1	\$50.00	\$50.00
<b>Subtotal</b>				<b>\$50.00</b>
<b>Total Expenses</b>				<b>\$2,321.00</b>

**VII. CONSIDERATION AND APPROVAL OF WORK  
AUTHORIZATION NO. 20 WITH HNTB FOR  
GENERAL ENGINEERING SERVICES**

**CAMERON COUNTY REGIONAL MOBILITY AUTHORITY**  
General Engineering Consultant Services

**WORK AUTHORIZATION NO. 20**

This Work Authorization No. 20 is made pursuant to the terms and conditions of the Base Contract, effective February 16, 2006, hereinafter identified as the "Agreement", entered into by and between Cameron County Regional Mobility Authority (the "AUTHORITY"), and HNTB Corporation (the "CONSULTANT").

**Part 1.** The CONSULTANT will provide the following engineering services:

The responsibilities of the AUTHORITY, the CONSULTANT and the schedule are further detailed in Exhibits A, B, C and D.

**Part 2.** The compensation to be paid for the performance of the Services identified in Exhibit B is based upon direct salary cost times a multiplier as defined in the Agreement. Total compensation, including subconsultant costs and direct expenses, will not exceed **\$25,115** unless mutually agreed to and authorized in writing by the Authority. A fee schedule used to establish the maximum amount payable is attached hereto as Exhibit D. HNTB may alter the compensation distribution between the phases, tasks and work assignments to be consistent with the Services actually rendered, within the total not to exceed amount.

**Part 3.** Payment to the CONSULTANT for the services established under this Work Authorization No. 20 shall be made in accordance with the Agreement.

**Part 4.** This Work Authorization No. 20 is effective as of March 16, 2009 and shall terminate December 31, 2009, unless extended by a Supplemental Work Authorization.

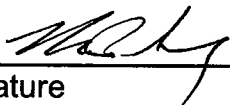
**Part 5.** This Work Authorization does not waive the parties' responsibilities and obligations provided under the Agreement.




**Part 6.** This Work Authorization No. 20 is hereby accepted and acknowledged below.

CONSULTANT:  
HNTB Corporation

AUTHORITY:  
Cameron County Regional Mobility Authority

By:   
Signature

By:   
Signature

Robert J. Slimp, P.E  
Printed Name

DAVID E. ALLEX  
Printed Name

Vice President  
Title

CHAIRMAN  
Title

4/27/09  
Date

4/20/09  
Date

LIST OF EXHIBITS

- Exhibit A - Services to be Provided by the Authority
- Exhibit B - Services to be Provided by the Consultant
- Exhibit C - Work Schedule
- Exhibit D - Fee Schedule

**EXHIBIT A**  
**SERVICES TO BE PROVIDED BY THE AUTHORITY**

County : Cameron  
Highway :

In addition to the services listed in the Agreement, the AUTHORITY will provide the following services:

1. The AUTHORITY shall authorize the CONSULTANT in writing to proceed.
2. The Texas Department of Transportation (TxDOT) and the AUTHORITY will collect and provide hard copy and digital copy (if available) of previously completed studies, cost estimates, record drawings, public involvement, traffic data for railroad/roadway, property ownership digital mapping and public utility information.
3. The AUTHORITY shall give prompt written notice to the CONSULTANT whenever the AUTHORITY becomes aware of any development that does or may affect the scope or timing of the CONSULTANT'S Services, or any defect in the CONSULTANT'S Scope of Services or its subconsultants.
4. The AUTHORITY shall advise the CONSULTANT of the identity and scope of services of any independent consultants retained by the AUTHORITY to provide services in regard to the Project.
5. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY shall communicate this to the CONSULTANT and allow the project schedule to be adjusted accordingly.

**EXHIBIT B**  
**SERVICES TO BE PROVIDED BY THE CONSULTANT**

County : Cameron

**Scope of Project**

Provide services as listed below.

**SCOPE DETAILS:**

The following Scope of Work describes the task details that are included in the Services to be provided by the CONSULTANT.

**TASK 145 – PROJECT MANAGEMENT**

**TASK 145.00 – NOTICE TO PROCEED**

The CONSULTANT will not begin work on Project Management and General Engineering Assistance tasks until the AUTHORITY has granted written "Notice to Proceed."

**TASK 145.01 – PROJECT ADMINISTRATION & COORDINATION**

**Subtask 145.01.01 – General Administration**

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

- A) Coordinate, execute and administer work authorization as required with the AUTHORITY.
- 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. Prepare a detailed schedule (in a format approved by the AUTHORITY) of anticipated monthly invoice billing linking to the project work authorization tasks. A monthly progress report will be submitted and 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 electronic copies of monthly correspondence.

- C) Record Keeping and File Management – Maintain all project records and files in accordance with AUTHORITY document retention policies and manage data and transfer files for required elements of the project throughout the duration of the services under Exhibit C.
- 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 basis, but not less than once a month.
- E) Schedule – Prepare a detailed, graphic schedule linking work authorization tasks, subtasks, critical dates, milestones, deliverables and AUTHORITY/Texas Department of Transportation (TxDOT)/Federal Highway Administration (FHWA) 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 C, Work Schedule and should these reviews indicate a substantial change in progress, a schedule recovery strategy will be developed and implemented and the schedule will be revised accordingly.
- F) Quality Assurance/Quality Control (QA/QC) – A comprehensive QA/QC review will be conducted at appropriate milestone points during the project, to appraise technical performance, provide direction for project activities and review all correspondence and technical reports for quality assurance.

**Deliverables:**

- Monthly progress reports that delineate activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle
- Meeting minutes for all meetings attended
- QA/QC checklist for each milestone submittal

**Subtask 145.01.02 – Management and Coordination**

Meetings – The CONSULTANT will conduct a kick-off meeting in Brownsville, TX with AUTHORITY officials to discuss the work plan for the program development, and submittal phases and obtain input from the AUTHORITY to refine the work plan to best meet project needs.

The CONSULTANT will participate in telephone conference meetings with the AUTHORITY throughout the duration of this Work Authorization on an as-needed basis. The purpose of these meetings is to evaluate the program status, determine necessary

adjustments to the project work plan and schedule, and discuss and resolve key project issues.

**Deliverables:**

- Copies of all meeting minutes.

**Deliverables:**

- Monthly progress reports that delineate activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle
- Meeting minutes for all meetings attended
- QA/QC checklist for each milestone submittal

**TASK 110 – GENERAL ENGINEERING ASSISTANCE**

**TASK 110.01 – Statement of Continuous Activity for the Olmito Switchyard**

The CONSULTANT will review the requirements for this task, revise the current application/document coincident with Olmito Yard phase build-out proposal and submit the new document to the proper agencies. The new document will be coordinated with the Authority and TxDOT as needed.

**Deliverable:**

- Three (3) hardcopies and Three (3) PDF digital copies of the continuance letter.

**EXHIBIT C**  
**WORK SCHEDULE**

This Work Authorization shall become effective March 16, 2009 and shall terminate on December 31, 2009, unless extended by a Supplemental Work Authorization.

# Summary All Firms

Work Authorization No. 20 Exhibit D - Fee Schedule  
Basis of Cost Plus Fee

		HNTB	PSI	Total
<b>TASK 145</b>	<b>Task 145.01 - PROJECT ADMINISTRATION AND COORDINATION</b>			
	Subtask 145.01.01 General Administration	\$ 3,584		
	Subtask 145.01.02 Management and Coordination	\$ 4,121		
	<b>SUBTOTAL</b>	<b>\$ 7,706</b>		<b>\$ 7,706</b>
	<b>Task 110 - GENERAL ENGINEERING ASSISTANCE</b>			
	Task 110.01 - Statement of Continuous Activity for the Olmito Switchyard	\$ 11,663		
	Task 110.02 - Curvature Re-alignment along Commerce Street	\$ -		
	Task 110.03 Preparation of Grant Application	\$ -	\$ -	
	<b>SUBTOTAL</b>	<b>\$ 11,663</b>	<b>\$ -</b>	<b>\$ 11,663</b>
	<b>Total HNTB Labor</b>	<b>\$ 19,368</b>		<b>\$ 19,368</b>
	<b>HNTB Expenses</b>	<b>\$ 5,747</b>	<b>\$ -</b>	<b>\$ 5,747</b>
	<b>Total Labor and Expenses</b>	<b>\$ 25,115</b>	<b>\$ -</b>	<b>\$ 25,115</b>

Work Authorization No. 20 Exhibit D - Fee Schedule  
Basis of Cost Plus Fee

40618 WA 20 Harding Rail	Sen Tech Adver	Proj Princ	Proj Dir	Sen Proj Mgr	Deputy Proj Mgr	Sen Engr	Engr	Sen Env Plnr	Env Plnr II	Public Involve/ Outreach	Tech	Proj Admin	Clerical	TOTALS
TASK 145														
PROJECT MANAGEMENT	\$100.00	\$78.00	\$75.00	\$68.50	\$64.50	\$57.50	\$41.50	\$51.00	\$43.50	\$43.50	\$52.00	\$31.50	\$18.50	
Task 145.01 - PROJECT ADMINISTRATION AND COORDINATION														
Subtask 145.01.01 General Administration														
A. Coordinate, execute and administer work authorization as required with the AUTHORITY			1		4							2		7
B. Progress Reports and Invoices					4							4	2	10
C. Record Keeping and File Management												2	2	4
D. Correspondence													2	2
E. Schedule					2							2		4
F. Quality Assurance/ Quality Control			1											1
Subtask 145.01.02 Management and Coordination														
A. Meetings		1	2		4			5						11
B. Coordination with railroad, TxDOT and Authority		2	2		4			5						12
HNTB Subtotal Task 145		1	6		18			10				10	6	51
TASK 110														
GENERAL ENGINEERING ASSISTANCE														
Task 110.01 - Statement of Continuous Activity for the Olimbo Switchyard			1	4	2			60	10					77
HNTB Subtotal Task 110			1	4	2			60	10					77
TOTAL HNTB LABOR HOURS		1	7	4	20			70	10			10	6	128
Contractor Rates	\$100.00	\$78.00	\$75.00	\$68.50	\$64.50	\$57.50	\$41.50	\$51.00	\$43.50	\$43.50	\$52.00	\$31.50	\$18.50	
Labor Cost	\$100.00	\$78.00	\$75.00	\$68.50	\$64.50	\$57.50	\$41.50	\$51.00	\$43.50	\$43.50	\$52.00	\$31.50	\$18.50	
Overhead Cost - 15526		\$121.10	\$815.12	\$425.41	\$2,002.85	\$-	\$-	\$3,570.78	\$435.00	\$-	\$-	\$315.00	\$111.00	
Profit - 15%		\$29.87	\$201.02	\$104.91	\$493.93	\$-	\$-	\$1,366.92	\$166.56	\$-	\$-	\$120.61	\$42.50	
Total HNTB Labor Cost		\$228.97	\$1,541.13	\$804.32	\$3,786.78	\$-	\$-	\$10,478.70	\$1,276.94	\$-	\$-	\$924.68	\$325.84	\$19,368.00
Total HNTB Expenses (see summary)														\$57,466.50
Total Labor Plus Expenses														\$25,114.50



# HNTB

## Work Authorization No. 20 Exhibit D -

EXPENSES				
	Unit	Amount	Contract Rate	Cost
<b>Travel</b>				
Airfare (Lowest available coach fare)	ROUNDTrip	1	\$350.00	\$350.00
Automobile Mileage	MILE	0	\$0.550	\$0.00
Lodging "+ tax"	DAY	1	\$85.00	\$85.00
Rental Vehicle "+ tax"	DAY	2	\$50.00	\$100.00
Airport Parking	DAY	2	\$13.00	\$26.00
Per Diem	DAY	2	\$36.00	\$72.00
Gas for rental car	LS	1	\$30.00	\$30.00
<b>Subtotal</b>				<b>\$663.00</b>
<b>Printing/Reproductions</b>				
B&W Copies 8.5" x 11" (unless already included in overhead)	EA	100	\$0.10	\$10.00
Color Copies 8.5" x 11" (unless already included in overhead)	EA	10	\$0.80	\$8.00
Color Copies 11" x 17" (unless already included in overhead)	EA	10	\$1.55	\$15.50
Plots	EA	0	\$20.00	\$0.00
Color Plots	EA	0	\$1.50	\$0.00
Reproduce Plan Sets (9 Projects)	EA	0	\$100.00	\$0.00
<b>Subtotal</b>				<b>\$33.50</b>
<b>Delivery</b>				
Courier, Overnight, Deliveries, Postage	Lump Sum	1	\$50.00	\$50.00
<b>Subtotal</b>				<b>\$50.00</b>
<b>Sub-consultant-Survey</b>				
				\$5,000.00
<b>Subtotal</b>				<b>\$5,000.00</b>
<b>Total Expenses</b>				<b>\$5,746.50</b>