THE STATE OF TEXAS

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**COUNTY OF CAMERON** 

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BE IT REMEMBERED on the 21st day of October 2021, there was conducted a Special Meeting of the Cameron County Regional Mobility Authority, at the CCRMA Administrative Office, 3470 Carmen Avenue, Suite 5 thereof, in Rancho Viejo, Texas, for the purpose of transacting any and all business that may lawfully be brought before the same.

THE BOARD MET AT:

PRESENT:

12:00 Noon

FRANK PARKER, JR. CHAIRPERSON

MICHAEL SCAIEF ABSENT

ARTURO A. NELSON DIRECTOR

DR. MARIA VILLEGAS, M.D.

DIRECTOR

MARK ESPARZA

**DIRECTOR** 

LEO R. GARZA DIRECTOR

AL VILLARREAL DIRECTOR

The Meeting was called to order by Chairman Parker, at 12:00 Noon. At this time, the Board considered the following matters as per CCRMA Agenda posted on the CCRMA's website and physically at 3470 Carmen Avenue, Suite 5, Rancho Viejo, Texas. on this 18th day of October 2021.

# **PUBLIC COMMENTS**

# 1 PUBLIC COMMENTS

None.

# **ACTION ITEMS**

2-A	Consideration and Approval	of the September 22, 20	21 Special Meeting Minutes.
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Secretary Nelson moved to approve the minutes of the September 22, 2021 Special Meeting Minutes. The motion was seconded by Director Esparza and carried unanimously.

## 2-B Acknowledgement of Claims.

Mr. Victor Barron, RMA Controller went over the Claims and presented them into the record.

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

The Claims are as follows	S:	

## 2-C Approval of Claims.

Mr. Victor Barron, RMA Controller went over the Claims and presented them into the record.

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

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# 2-D Consideration and Approval of the Financial Statements and Budget Amendments for the month of September 2021.

Mr. Victor Barron, RMA Controller went over the financial statements for September.

Director Esparza moved to approve the financial statements for September 2021. The motion was seconded by Director Garza and carried unanimously.

The Financial Statements are as follows:

#### 2-E Consideration and Approval of Resolution No. 2021-001.

Mr. Pete Sepulveda, Jr., RMA Executive Director explained the need for Resolution No. 2021-001.

Secretary Nelson moved to approve Resolution No. 2021-001. The motion was seconded by Director Esparza and carried unanimously.

The Resolution is as follows:	

2-F Consideration and Approval of an Interlocal Agreement between Cameron County and the Cameron County Regional Mobility Authority regarding Administrative Services.

Mr. Pete Sepulveda, Jr., RMA Executive Director went over the need of an Interlocal Agreement between Cameron County and the Cameron County Regional Mobility Authority regarding Administrative Services.

Treasurer Villarreal moved to approve the Interlocal Agreement between Cameron County and the Cameron County Regional Mobility Authority regarding Administrative Services. The motion was seconded by Director Esparza and carried unanimously.

The Interlocal is as follows:		

2-G Consideration and Authorization to Approve a Job Order Contracting Agreement with A & I Custom Manufacturing, LLC for construction and renovation of the Cameron County Isla Blanca Toll Booths via Contract with Choice Partners.

Staff recommended that the item be tabled.

Director Esparza moved to table the item. The motion was seconded by Treasurer Villarreal and carried unanimously.

2-H Consideration and Approval to Terminate Work Authorization No. 19 with S&B Infrastructure Regarding the East Loop Project.

Mr. Pete Sepulveda, Jr., RMA Executive Director explained the need to Terminate Work Authorization No. 19 with S&B Infrastructure Regarding the East Loop Project.

Treasurer Villarreal moved to approve to Terminate Work Authorization No. 19 with S&B Infrastructure Regarding the East Loop Project. The motion was seconded by Secretary Nelson and carried unanimously.

The	Work	Authorization	is as follows:	

2-I Consideration and Approval of Work Authorization No. 22 with S&B Infrastructure Regarding the East Loop Project.

Mr. Pete Sepulveda, Jr., RMA Executive Director explained the need for Work Authorization No. 22 with S&B Infrastructure Regarding the East Loop Project.

Director Esparza moved to approve Work Authorization No. 22 with S&B Infrastructure Regarding the East Loop Project. The motion was seconded by Director Garza and carried unanimously.

The	Work	Authorization	is as follows:	

2-J Consideration and Approval of Supplemental Work Authorization No. 2 to Work Authorization No. 23 with S&B Infrastructure Regarding the Isla Blanca Toll Booth Project.

Mr. Pete Sepulveda, Jr., RMA Executive Director explained to the Board the need for Supplemental Work Authorization No. 2 to Work Authorization No. 23 with S&B Infrastructure Regarding the Isla Blanca Toll Booth Project.

Treasurer Villarreal moved to approve Supplemental Work Authorization No. 2 to Work Authorization No. 23 with S&B Infrastructure Regarding the Isla Blanca Toll Booth Project. The motion was seconded by Director Garza and carried unanimously.

The Supplemental Work Authorization is as follows:

2-K Consideration and Approval to Award Bid Number 2021 – 003 to Foremost Paving Inc. and to Approve a Contract between the Cameron County Regional Mobility Authority and Foremost Paving, Inc. for the Isla Blanca Park Parking Lot Expansion.

Mr. Pete Sepulveda, Jr., RMA Executive Director explained to the Board the need to Award Bid Number 2021 – 003 to Foremost Paving Inc. and to Approve a Contract between the Cameron County Regional Mobility Authority and Foremost Paving, Inc. for the Isla Blanca Park Parking Lot Expansion.

Secretary Nelson moved to approve to Award Bid Number 2021 – 003 to Foremost Paving Inc. and to Approve a Contract between the Cameron County Regional Mobility Authority and Foremost Paving, Inc. for the Isla Blanca Park Parking Lot Expansion. The motion was seconded by Director Esparza and carried unanimously.

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2-L Consideration and Approval of a Professional Service Agreement between the Cameron County Regional Mobility Authority and JWH & Associates, Inc.

Mr. Pete Sepulveda, Jr., RMA Executive Director, explained the need for the Professional Service Agreement between the Cameron County Regional Mobility Authority and JWH & Associates, Inc.

Director Esparza moved to approve the Professional Service Agreement between the Cameron County Regional Mobility Authority and JWH & Associates, Inc. The motion was seconded by Treasure Villarreal and carried unanimously.

The Agre	ement	is as	follows:
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2-M Discussion and Possible Action Regarding Disabled Veterans Tolls and Fees in the Tolls Back Office System.

Staff recommended that the item be tabled.

Treasurer Villarreal moved to table the item. The motion was seconded by Secretary Nelson and carried unanimously.

Director Esparza made a motion to go into executive session at 12:43 PM. The motion was seconded by Treasurer Villarreal and carried unanimously.

#### 3 - EXECUTIVE SESSION

- 3-A Deliberation Regarding Acquisition of Real property legally described as Units 3 through 8 of the Rancho Viejo Plaza Condominiums, Rancho Viejo, Cameron County, Texas, Pursuant to V.T.C.A., Government Code, Section 551.072.
- 3-B Confer with the Cameron County Regional Mobility Authority's Legal Counsel Regarding Legal Issues Associated with Disabled Veterans Tolls and Fees in the Tolls Back Office System, Pursuant to V.T.C.A., Government code, Section 551.071 (2).
- 3-C Confer with the Cameron County Regional Mobility Authority's Legal Counsel Regarding Legal Issues associated with an Interlocal Agreement with Cameron County Regarding Administrative Services, Pursuant to V.T.C.A., Government Code, Section 551.071 (2)

Secretary Nelson made a motion to table the item. The motion was seconded by Treasurer Villarreal and carried unanimously.

3-D Confer with Legal Counsel Regarding Cause No. 2015-DCL-05357; David Garza and Diane Garza v. Cameron County Regional Mobility Authority, et al. Pursuant to V.T.C.A., Government Code, Section 551.071(1).

Treasurer Villarreal made a motion to come back into open session at 1:05 PM. The motion was seconded by Secretary Nelson carried unanimously.

## 4-A Possible Action

Treasurer Villarreal made a motion to proceed as discussed in Executive Session. The motion was seconded by Secretary Nelson and carried unanimously.

### 4-B Possible Action

Treasurer Villarreal made a motion to acknowledge Report of Legal Counsel. The motion was seconded by Secretary Nelson and carried unanimously.

## 4-C Possible Action

Item 3-C was tabled.

#### 4-D Possible Action

Secretary Nelson made a motion to acknowledge Report of Legal Counsel. The motion was seconded by Treasurer Villarreal and carried unanimously.

# **ADJOURNMENT**

There being no further business to come before the Board and upon motion by Treasurer Villarreal and seconded by Director Esparza and carried unanimously the meeting was **ADJOURNED** at 1:06 P.M.

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_\_ 2021.

CHAIRMAN FRANK PARKER, JR.

ATTESTED:
ARTURO A. NELSON, SECRETARY



## IMPROVING MORE THAN JUST ROADS

AGENDA
Regular Meeting of the Board of Directors
of the
Cameron County Regional Mobility Authority
3470 Carmen Avenue, Suite 5
Rancho Viejo, Texas 78575
October 21, 2021
12:00 Noon

### **PUBLIC COMMENTS:**

1. Public Comments.

# ITEMS FOR DISCUSSION AND ACTION:

- 2. Action Items.
  - A. Consideration and Approval of the September 22, 2021 Special Meeting Minutes.
  - B. Acknowledgement of Claims.
  - C. Approval of Claims.
  - D. Consideration and Approval of the Financial Statements and Budget Amendments for the Month of September 2021.
  - E. Consideration and Approval of Resolution No. 2021-001
  - F. Consideration and Approval of an Interlocal Agreement between Cameron County and the Cameron County Regional Mobility Authority regarding Administrative Services.
  - G. Consideration and Authorization to Approve a Job Order Contracting Agreement with A & I Custom Manufacturing, LLC for construction and renovation of the Cameron County Isla Blanca Toll Booths via Contract with Choice Partners.
  - H. Consideration and Approval to Terminate Work Authorization No. 19 with S&B Infrastructure Regarding the East Loop Project.
  - Consideration and Approval of Work Authorization No. 22 with S&B Infrastructure Regarding the East Loop Project.
  - J. Consideration and Approval of Supplemental Work Authorization No. 2 to Work Authorization No. 23 with S&B Infrastructure Regarding the Isla Blanca Toll Booth Project.
  - K. Consideration and Approval to Award Bid Number 2021 003 to Foremost Paving Inc. and to Approve a Contract between the Cameron County Regional Mobility Authority and Foremost Paving, Inc. for the Isla Blanca Park Parking Lot Expansion.
  - L. Consideration and Approval of a Professional Service Agreement between the Cameron County Regional Mobility Authority and JWH & Associates, Inc.

M. Discussion and Possible Action Regarding Disabled Veterans Tolls and Fees in the Tolls Back Office System.

## 3. EXECUTIVE SESSION:

- A. Deliberation Regarding Acquisition of Real Property legally described as Units 3 through 8 of the Rancho Viejo Plaza Condominiums, Rancho Viejo, Cameron County, Texas, Pursuant to V.T.C.A., Government Code, Section 551.072.
- B. Confer with the Cameron County Regional Mobility Authority's Legal Counsel Regarding Legal Issues Associated with Disabled Veterans Tolls and Fees in the Tolls Back Office System, Pursuant to V.T.C.A., Government code, Section 551.071 (2).
- C. Confer with the Cameron County Regional Mobility Authority's Legal Counsel Regarding Legal Issues associated with an Interlocal Agreement with Cameron County Regarding Administrative Services, Pursuant to V.T.C.A., Government Code, Section 551.071 (2)
- D. Confer with Legal Counsel Regarding Cause No. 2015-DCL-05357; David Garza and Diane Garza v. Cameron County Regional Mobility Authority, et al. Pursuant to V.T.C.A., Government Code, Section 551.071(1).

# 4. ACTION RELATIVE TO EXECUTIVE SESSION:

- A. Possible Action
- B. Possible Action
- C. Possible Action
- D. Possible Action

## ADJOURNMENT:

Signed this 18th day of October 2021.

Frank Parker, Jr.

Chairman

#### NOTE:

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

2-B ACKNOWLEDGEMENT OF CLAIMS.

# Claims for Acknowledgement

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Claims October 12, 2021



# 100 Operation

Vendor Name	Invoice Number	Cash	n Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
ROL Consulting LLC	125	\$	4,000.00	ROL consulting services Sept 2021	Indirect	Y	Local	Ope
Edwards Abstract and Title Co	Earnest Money 10/21		1,000.00	Earnest Money 3470 Carmen Ave Rancho Viejo, Tx	Indirect	Y	Local	Ope
Rentfro, Irwin, & Irwin, P.L.L.C	1106		1,767.26	Rentfro & Irwin Sept 2020 legal services	Indirect	Y	Local	Ope
Time Warner Cable Business Class	0121858100921		1,161.53	Spectrum Tolls Oct 2021	Indirect	Y	Local	Ope
AIM Media Texas	40016751-0921		2,175.00	AIM 3010-BH Classified Legal BH-BID Number 2021- 03	CC - Administration Building & Parking Lot	Y	Local	Ope
Valley Municipal Utility District	2030007806 09/21		34.55	VMUD Sept 2021 Ste 7	Indirect	Y	Local	Ope
Valley Municipal Utility District	2030007907 09/21		34.92	VMUD Sept 2021 Ste 6	Indirect	Y	Local	Ope
Valley Municipal Utility District	2030008005 09/21		36.81	VMUD Sept 2021 Ste 4	Indirect	Y	Local	Ope
Valley Municipal Utility District	2030008105 09/21		81.11	VMUD Sept 2021 Ste 3	Indirect	Y	Local	Ope
Valley Municipal Utility District	2030008406 09/21		34.17	VMUD Sept 2021 Ste 5	Indirect	Y	Local	Ope
			10,325.35					

## 525 Tolls

Vendor Name	Invoice Number	C	ash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
Law Enforcement Systems LLC	1005608	\$	511.68	Duncan Solutions DMV Record Sept 2021	Indirect	Y	Local	Tolls
FRANCISCO J SANMIGUEL	Travel FSM 9.30.21		2,028.44	Travel Mileage Reimbursement May-Sept 2021	Indirect	Y	Local	Tolls
LexisNexis Risk Solutions FL Inc	1546392-20210930		110.13	LexisNexis Sept 2021	Indirect	Y	Local	Tolls
Tecsidel SA	1021		2,652.25	Tecsidel Sept 2021	Pharr-Reynosa Intl Bridge	Y	Local	Tolls
Rentfro, Irwin, & Irwin, P.L.L.C	1106		1,000.00	Rentfro & Irwin Sept 2020 legal services	Indirect	Y	Local	Tolls
Time Warner Cable Business Class	0121858100921		1,161.53	Spectrum Tolls Oct 2021	Indirect	Y	Local	Tolls
Valley Municipal Utility District	3010066802 09/21		38.32	VMUD Sept 2021 Tolls	Indirect	Y	Local	Tolls
			7,502.35					
	Operations	\$	10,325.35					
	Tolls Total Transfer	S	7,502.35 17,827.70	•				

Reviewed by:

Monica R. Ibarra, Accounting Clerk

Victor J. Barron, Controller

Pete Sepulveda Jr, Executive Director 10.12.21

10.12.21

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# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Claims October 6, 2021

# 100 Operation

Vendor Name	Invoice Number	С	ash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
Best Buy	Best Buy 10.5.21	\$	VOID 3,844.85	Best Buy Two Tv's for Board Room	Indirect	Y	Local	Ope
Culligan of the Rio Grande Valley	320895 9.29.21		49.92	Culligan Sept 2021	Indirect	Y	Local	Ope
Monica R Ibarra	Travel MRI 9.30.21		10.08	Travel Reimbursement MRI 9.30.21	Indirect	Y	Local	Ope
Gulf Coast Paper Co.	2114049		3,592.80	Gulf Coast Paper Clorox 360	Indirect	Y	Local	Ope
MPC Studios, Inc	30769		125.00	MPC Studios Oct 2021	Indirect	Y	Local	Ope
Toshiba Financial Services	38599834		311.23	Toshiba Admin Oct 2021	Indirect	Y	Local	Ope
		-	7,933.88					

## 525 Tolls

Vendor Name	Invoice Number		ash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
AAM Automatizacion Avanzada y Metales, LLC	21-014	\$	458.00	AAM Automatizacion Avanzada Y Metales stainless steel parts	Indirect	Υ	Local	Tolls
Culligan of the Rio Grande Valley	320895 9.29.21		57.95	Culligan Sept 2021	Indirect	Y	Local	Tolls
Ema Jaramillo	Travel EJ 9.28.21		7.84	Travel Reimburstment EJ 9.28.21	Indirect	Y	Local	Tolls
Fagan Consulting LLC	CCR-2019R1		460.20	Fagan operation support Sept 2021	Indirect	Y	Local	Tolls
Fagan Consulting LLC	TCSI-2019R1		644.28	Fagan Toll Collection Sys Implementation Sept 2021	Indirect	Y	Local	Tolls
Pharr International Bridge	Pharr Sponsor 21-22		1,250.00	Pharr Int'l Bridge Sponsorship 21-22	Indirect	Y	Local	Ope
Public Utilities Board	PUB 600710 Sept 2021		237.84	PUB 600710 Sept 2021	Direct Connectors - SH550	Y	Local	Tolls
Quadient Leasing USA, Inc.	N9071234		1,061.10	Quadient Oct 2021	Indirect	Y	Local	Tolls
Time Warner Cable Business Class	2868066100321		259.13	Spectrum 8066 Oct 2021	Direct Connectors - SH550	Y	Local	Tolls
Verizon Wireless	9889105042		88.36 4,524.70	Verizon wireless Sept 2021	Indirect	Y	Local	Tolls
	Operations Tolls	\$	7,933.88 4,524.70					
	Total Transfer	\$	12,458.58					

Reviewed by:

Monica R. Ibarra, Accounting Clerk

Victor J. Barron, Controller

Pete Sepulveda Jr, Executive Director 10.0.7

10.06.21

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Claims October 1, 2021



# 100 Operation

Vendor Name	Invoice Number	Ca	sh Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Accoun
AGC Solutions LLC	Admin Rent Oct 2021	S	4,460,00	AGC Admin Monthly Rent Oct 2021	Indirect	Y	Local	Ope
American Express	AMEX Sept 2021		781.64	AMEX Sept 2021	Indirect	Y	Local	Ope
South Padre Island Chamber of Commerce	SPI Member 2021			SPI Chamber Annual Membership Meeting 2021	Indirect	Y	Local	Ope
		_	5,401.64					
				525 Tolls				
Vendor Name	Invoice Number	Ca	sh Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
American Express Direct Energy	AMEX Sept 2021 212660046881015	s		AMEX Sept 2021 Direct Energy Sept 2021 570	Indirect Direct	Y	Local	Tolls
Business, LLC				Fm 511	Connectors - SH550	Y	Local	Tolls
Direct Energy Business, LLC	212660046881016		339.86	Direct Energy Sept 2021 1895 Fm 511 #1	FM1847 - SH550	Y	Local	Tolls
E.A. Stone dba Gulf Data Products	Envelope TPS 9.28.21		3,355.00	Gulf Data Products Envelope Order TPS logo	Indirect	Y	Local	Tolls
Kapsch TrafficCom USA, Inc	486022SI01074		14,274.00	Kapsch maintenance support Aug 2021	Indirect	Y	Local	Tolls
NSA Property Holdings, LLC d/b/a Move It Storage- North 77th	Move It Oct 2021		214.00	Move It Storage rent Oct 2021	Indirect			
Prisciliano Delgado	10726		250.00	Priscillano Lawn Care Sept	Indirect	Y	Local	Tolls
Tisemano Deigudo	10720		230.00	2021	munect	Y	Local	Tolls
Rice Signs LLC	524353		409.65	Rice Signs Texas Interstate 2 route shield	Indirect	Y	Local	Tolls
Rice Signs LLC	524356		971.90	Rice Signs Texas Intersate 169 and Texas Interstate 69E	Indirect	Y	Local	Tolls
United States Postal Service	USPS Repl 10.1.21		15,000.00	USPS Replenishment 10.1,21	Indirect	Y	Local	Tolls
			43,426.91					
	Operations	s	5,401.64					
	Tolls		43,426.91					
	Total Transfer	\$	48,828.55					

Reviewed by:

Monica R. Ibarra, Accounting Clerk

Victor J. Barron, Controller

Pete Sepulveda Jr, Executive Director Ne, 10.1.2

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10.01.22

# RMA CAMERON COUNTY RECIONAL MOBILITY AUTHORITY

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Claims September 23, 2021

# 100 Operation

Vendor Name	Invoice Number	Cash Requi	ed Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
Amazon	Amazon Sept 2021	\$ 370.9	7 Amazon Sept 2021	Indirect	Y	Local	Ope
Direct Energy Business, LLC	212640046857722	58.	3 Direct Energy Sept 2021 Ste 7	Indirect	Y	Local	Ope
Direct Energy Business, LLC	212640046857723	99.4	1 Direct Energy Sept 2021 Ste 3	Indirect	Y	Local	Ope
Direct Energy Business, LLC	212640046857724	57.0	0 Direct Energy Sept 2021 Ste 5	Indirect	Y	Local	Ope
Direct Energy Business, LLC	212640046857725	58.5	2 Direct Energy Sept 2021 Ste 4	Indirect	Y	Local	Ope
Maria D Mayorga	Travel LM 9.22.21	42.5	0 Travel Reimbursement LM 9.22.21	Indirect	Y	Local	Ope
Gexa Energy, LP	32785157	65.2	3 GEXA Sept 2021 Ste 6	Indirect	Y	Local	Ope
Gulf Coast Paper Co.	2093644	251.	60 Gulf Coast Paper PPE/cleaning supplies 8.26.21	Indirect	Y	Local	Ope
Gulf Coast Paper Co.	2095686	76.0	6 Gulf Coast Paper PPE/cleaning supplies 8.26.21	Indirect	Y	Local	Ope
Gulf Coast Paper Co.	2096058	66.8	6 Gulf Coast Paper PPE/cleaning supplies 8.26.21	; Indirect	Y	Local	Ope
Gulf Coast Paper Co.	2099077	27.0	6 Gulf Coast Paper PPE/cleaning supplies 8.26.21	Indirect	Y	Local	Ope
E.A. Stone dba Gulf Data Products	Gulf Data FT 9.21.21	531.5	5 Gulf Data Products Fuego Tag 9.21.21	s Indirect	Y	Local	Ope
S&B Infrastructure, LTD	U2716.800-09	1,591.6	1 S&B Cultural Resources WA 8 Aug 2021	Naranjo Rd/Old Alice Rd	Y	Local	Ope
Rentfro, Irwin, & Irwin, P.L.L.C	1067	1,960.0	0 Rentfro & Irwin legal services Aug 2021	Indirect	Y	Local	Ope
		5,258.3					

# 525 Tolls

Vendor Name	Invoice Number		ash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
Amazon Direct Energy Business, LLC	Amazon Sept 2021 212640046856889	\$		Amazon Sept 2021 Direct Energy Sept 2021 Tolls	Indirect Indirect	Y Y	Local	Tolls Tolls
Gexa Energy, LP	32788362		148.01	GEXA Sept 2021 1505 Fm 511 & 1705 Fm 511	Direct Connectors - SH550	Y	Local	Tolls
Matus Contractor Company	358		2,800.00	Matus grass, garbage, herbicide Gap 1	Indirect	Y	Local	Tolls
Matus Contractor Company	361			Matus grass, garbage, herbicide Fm 550 to hwy 77	Indirect	Y	Local	Tolls
Republic Services	0863-002068883			Republic Services Oct - Dec 2021	Indirect	Y	Local	Tolls
Texas Department of Motor Vehicles (TxDMV)	TxDMV Replen 9.23.21		3,000.00	TxDMV Replenishment 9.23,21	Indirect	Y	Local	Tolls
Time Warner Cable Business Class	879673091521		290.22	Spectrum 9673 Sept 2021	Direct Connectors -		Local	Tolls
Toshiba America	5504593		381.47	Toshiba Tolls Maint Sept 2021	SH550 Indirect	Y	Local	Tolls
Business Solutions, Inc Toshiba Financial	38532603		296.86	Toshiba Tolls Sept 2021	Indirect	Y	Local	Tolls
Services United States Postal	USPS Repl 9.21.21		5,000.00	USPS Replenishment 9.21.21	Indirect	Y	Local	Tolls
Service		_	16,572.55			Y	Local	Tolls
	Operations	s	5,258.34					
	Tolls Total Transfer	\$	16,572.55 21,830.89					

Reviewed by:

Monica R. Ibarra, Accounting Clerk

Victor J. Barron, Controller

Pete Sepulveda Jr, Executive Director 9.23.2

9.2321

69.23.2

2-C APPROVAL OF CLAIMS.



# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY BOD Claims October 21, 2021

# 100 Operations

Vendor Name	Invoice Number	C	ash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
HALFF Associates, Inc.	10059334	S	65,786.68	Halff Eng for Develop of Design for Whipple Rd Sept 2021	Whipple Road	Y	Local	Ope
HALFF Associates, Inc.	10060597		19,074.45	Halff Whipple Rd Devel if Design Oct 2021	Whipple Road	Y	Local	Ope
S&B Infrastructure, LTD	U2716.400-07		28,254.00	S&B SH 550 Gap II WA 4 Aug 2021	SH550 GAP II	Y	Local	Ope
			113,115.13					

# 100 Interlocal Agreements

Vendor Name	Invoice Number	Ca	sh Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
S&B Infrastructure, LTD	U2716.120-09	S	53,183.51	S&B Old Alice Rd APD & PS&E WA12 Aug 2021	CC - Old ALice Road	Y	Local	Ope
S&B Infrastructure, LTD	U2716.223-01		41,649.63	Isla Blanca Toll Booths WA 23 Aug 2021	CC - Parks	Y	Local	Ope
S&B Infrastructure, LTD	U2716.224-02		24,911.68	S&B Flor de Mayo WA 24 Aug 2021	Flor De Mayo Bridge	Y	Local	Ope
S&B Infrastructure, LTD	U2716.500-14		64,316.97	S&B East Loop APD WA 5 Aug 2021	SH 32 (East Loop)	Y	Local	Ope
			184,061.79					

## 525 Interlocal Agreements

Vendor Name	Invoice Number	Cash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank
TollPlus LLC	US2100114	\$ 6,461.34 6,461.34	TollPlus Support and Maintenance Aug 2021	Pharr-Reynosa Intl Bridge	Y	Local	Toll
			525 Tolls				
Vendor Name	Invoice Number	Cash Required	Invoice/Credit Description	PROJ Title	Transfer Funds	Funding Source	Bank Account
TML Intergovernmental Risk Pool	9384 10.1.21	\$ 16,798.25	TML Risk Pool 10.1.21	Indirect	Y	Local	Toll
TollPlus LLC	US2100114	15,600.00 32,398.25	TollPlus Support and Maintenance Sept 2021	Indirect	Y	Local	Toll
	Operations	113,115.13					
	Oper Interlocal Tolls Interlocal Tolls	184,061.79 6,461.34 32,398.25					
	Total Transfer	\$ 336,036.51					
Reviwed by:							

Reviwed by:

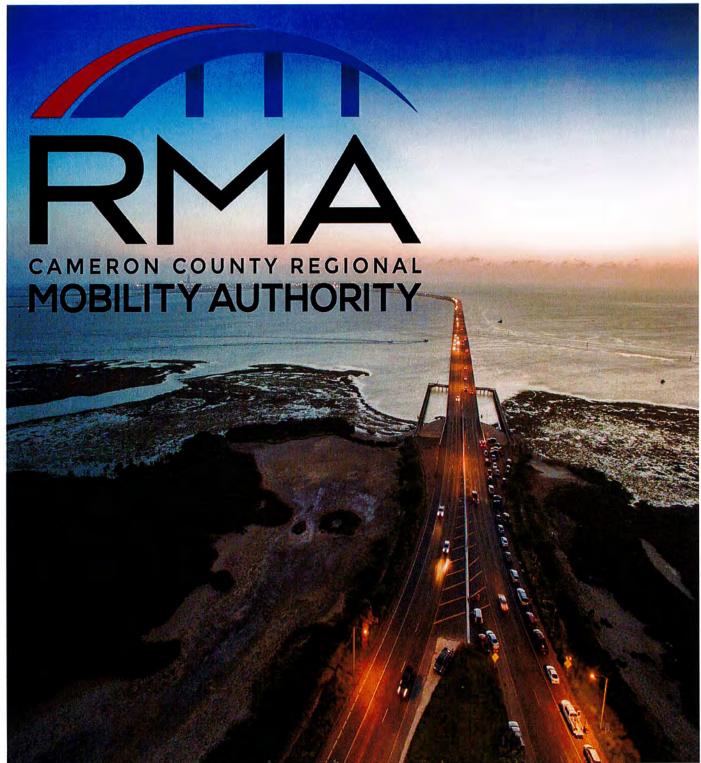
Victor J. Barron, Controller

Pete Sepulveda Jr, Executive Director

10/18/2021

10/18/2021

2-D CONSIDERATION AND APPROVAL OF THE FINANCIAL STATEMENTS AND BUDGET AMENDMENTS FOR THE MONTH OF SEPTEMBER 2021.



SEPTEMBER 2021 FINANCIAL REPORT

PETE SEPULVEDA, JR., EXECUTIVE DIRECTOR VICTOR J. BARRON, CONTROLLER

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# **CCRMA MONTHLY FINANCIAL**

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TOLL OPERATIONS REVENUES AND EXPENSES - CASH	2
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# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Statement of Revenues and Expenditures - Monthly R - <u>Unposted Transactions Included In Report</u> <u>From 9/1/2021 Through 9/30/2021</u>

Operating Revenues         Vehicle registration fees         \$ 274,590         \$ 3,509,231         \$ 3,250,000         \$ 259,231         \$ 3,251,304           Interlocal agreements         32,753         142,753         143,491         (738)         149,716           Total Operating Revenues         307,343         3,651,984         3,393,491         258,493         3,401,020           Operating Expenses         81,787         957,420         1,042,697         85,277         773,621           Professional services         16,000         272,815         306,300         33,485         289,599           Contractual services         1,127         38,338         52,000         13,662         26,238           Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,371         53,600         39,883         18,167           Insurance         -         1,085         2,000         9,15         798           Maintenance & repairs			ent Period Actual	Ci	urrent Year Actual		nual Budget Original	V	ual Budget ariance - Original	P	rior Year Actual
Operating Expenses         81,787         957,420         1,042,697         85,277         773,621           Professional services         16,000         272,815         306,300         33,485         289,569           Contractual services         1,127         38,338         52,000         13,662         26,238           Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         36,21         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085	Vehicle registration fees	\$		\$		\$		\$		\$	
Personnel costs         81,787         957,420         1,042,697         85,277         773,621           Professional services         16,000         272,815         306,300         33,485         289,569           Contractual services         1,127         388,338         52,000         13,662         26,238           Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,73         59,085      <			307,343		3,651,984		3,393,491		258,493		3,401,020
Personnel costs         81,787         957,420         1,042,697         85,277         773,621           Professional services         16,000         272,815         306,300         33,485         289,569           Contractual services         1,127         388,338         52,000         13,662         26,238           Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,73         59,085      <	Operating Expenses										
Professional services         16,000         272,815         306,300         33,485         289,569           Contractual services         1,127         38,338         52,000         13,662         26,238           Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Ut			81.787		957,420		1.042.697		85.277		773,621
Contractual services         1,127         38,338         52,000         13,662         26,238           Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency					10000						
Advertising & marketing         125         7,250         16,500         9,250         9,015           Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         9,4164         -           Total Operating Expenses         1											
Data processing         158         9,549         11,000         1,451         7,642           Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Revenues<									100000000000000000000000000000000000000		
Dues & memberships         160         16,639         20,000         3,361         17,917           Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711											
Education & training         -         1,379         10,000         8,621         3,540           Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Non Operating Revenues         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources											
Fiscal agent fees         3,922         13,717         53,600         39,883         18,167           Insurance         -         1,085         2,000         915         798           Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Othe									1.50		
Insurance											
Maintenance & repairs         -         609         5,000         4,391         2,656           Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065	C. C		3,722								
Office supplies         8,570         16,338         27,150         10,812         11,301           Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Expenses         -         1,810,310         1,800,175         (1											
Leases         4,771         62,982         66,755         3,773         59,085           Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Revenues         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         336,285         1,242,309           Total Operating Revenues         -         -         -         -         336,7675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         3311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           Total Non Operating Revenues         23,231         6,513,207			8 570								
Travel         189         1,362         21,650         20,288         12,880           Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         -         166,615         -         (106,615)         -           Debt interest         79,319         1,810,310         1,800,											
Utilities         1,803         20,049         27,000         6,951         9,881           Contingency         -         -         94,164         94,164         -           Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         -         166,615         -         (106,615)         -           Debt interest LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835					1000						
Contingency         -         -         94,164         94,164         -         -         Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         Debt interest         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operat											
Total Operating Expenses         118,612         1,419,531         1,755,816         336,285         1,242,309           Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         -         166,615         -         (10,135)         758,543           Debt interest         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704 <td></td> <td></td> <td>1,005</td> <td></td> <td>20,045</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,001</td>			1,005		20,045						2,001
Total Operating Income (Loss)         188,731         2,232,453         1,637,675         594,778         2,158,711           Non Operating Revenues         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         Debt interest         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt issuance cost         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093			118 612		1 /10 531			-		-	1 242 309
Non Operating Revenues         Project revenues         -         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         Debt interest         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Total Operating Expenses	-	110,012	-	1,419,551		1,755,610	-	330,263		1,242,309
Project revenues         -         -         -         3,311           Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         Debt interest         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt issuance cost         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Total Operating Income (Loss)	_	188,731		2,232,453		1,637,675		594,778		2,158,711
Interest income         10,119         70,241         50,000         20,241         61,050           Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Non Operating Revenues										
Other financing sources         13,112         4,234,704         -         4,234,704         (112,652)           TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Project revenues		94								3,311
TRZ revenue         -         2,208,261         1,311,065         897,196         1,311,065           Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Interest income		10,119		70,241		50,000		20,241		61,050
Total Non Operating Revenues         23,231         6,513,207         1,361,065         5,152,142         1,262,775           Non Operating Expenses         79,319         1,810,310         1,800,175         (10,135)         758,543           Debt interest         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Other financing sources		13,112		4,234,704		- A-3-		4,234,704		(112,652)
Non Operating Expenses         Debt interest       79,319       1,810,310       1,800,175       (10,135)       758,543         Debt issuance cost       -       166,615       -       (166,615)       -         Debt interest-LOC       -       380       25,500       25,120       6,258         Project expenses       9,385       216,835       1,173,065       956,230       315,291         Total Non Operating Expenses       88,704       2,194,140       2,998,740       804,600       1,080,093	TRZ revenue		10.2		2,208,261	1	1,311,065		897,196		1,311,065
Debt interest       79,319       1,810,310       1,800,175       (10,135)       758,543         Debt issuance cost       -       166,615       -       (166,615)       -         Debt interest-LOC       -       380       25,500       25,120       6,258         Project expenses       9,385       216,835       1,173,065       956,230       315,291         Total Non Operating Expenses       88,704       2,194,140       2,998,740       804,600       1,080,093	Total Non Operating Revenues		23,231		6,513,207		1,361,065		5,152,142		1,262,775
Debt issuance cost         -         166,615         -         (166,615)         -           Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Non Operating Expenses										
Debt interest-LOC         -         380         25,500         25,120         6,258           Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Debt interest		79,319		1,810,310		1,800,175		(10,135)		758,543
Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Debt issuance cost		- 3		166,615				(166,615)		2
Project expenses         9,385         216,835         1,173,065         956,230         315,291           Total Non Operating Expenses         88,704         2,194,140         2,998,740         804,600         1,080,093	Debt interest-LOC		-		380		25,500		25,120		6,258
Total Non Operating Expenses 88,704 2,194,140 2,998,740 804,600 1,080,093			9,385		216,835		1,173,065		956,230		315,291
Total Changes in Net Position \$ 123,257 \$ 6,551,519 \$ - \$ 6,551,519 \$ 2,341,393			88,704				2,998,740		804,600		
	Total Changes in Net Position	\$	123,257	\$	6,551,519	\$	= 20	\$	6,551,519	\$	2,341,393

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

Toll Operations Revenues Expenses - Cash - Toll Operations Revenues Expenditures - Cash - Unposted Transactions Included In Report From 9/1/2021 Through 9/30/2021

		ent Period Actual	Cu	rrent Year Actual		nual Budget Original	V	Annual Budget ariance - Original	Prio	r Year Actual
Tall Operating Paranuss										
Toll Operating Revenues TPS Revenues	\$	269,758	\$	2,249,480	\$	1,715,000	\$	534,480	\$	1,874,298
Interop Revenues	φ.	207,750	Ψ	2,247,100	Ψ	1,712,000	Ψ	231,100	4	1,07-1,270
Interop revenues		69,616		950,522		740,000		210,522		810,616
Bridge interoperability		44,959		539,454		420,000		119,454		501,283
Total Interop Revenues	_	114,575		1,489,975		1,160,000		329,975		1,311,899
Other Toll Revenues	_									
Interlocal agreement		12,113		137,027		139,876		(2,849)		142,054
Total Other Toll Revenues		12,113		137,027		139,876		(2,849)		142,054
Total Toll Operating		396,446		3,876,482		3,014,876		861,606		3,328,250
Toll Operating Expenses										
Personnel costs		48,095		496,927		521,270		24,343		713,146
Transaction processing costs		83,570		491,744		505,625		13,881		357,599
Toll system maintenance/IT		29,280		341,949		346,353		4,404		331,998
Roadside maintnenace		35,713		436,162		453,962		17,800		456,347
CSC indirect/overhead costs		12,766		128,586		146,198		17,612		136,725
Total Toll Operating		209,425		1,895,368		1,973,408		78,040		1,995,816
Total Operating Income (Loss)		187,021		1,981,113		1,041,468		939,645		1,332,435
Non Operating Revenues										
Pass through grant		-		1,385,000		1,385,000		Ψ.		1,385,000
Total Non Operating		- 1		1,385,000		1,385,000				1,385,000
Non Operating Expenses										
Debt interest		134,215		2,424,657		2,426,468		1,811		5,427,507
Total Non Operating		134,215		2,424,657		2,426,468		1,811		5,427,507
Changes in Net Position	S	52,806	\$	941,457	\$	1	\$	941,457	\$	(2,710,072)

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Combined Statement of Revenues and Expenses - Unposted Transactions Included In Report From 9/1/2021 Through 9/30/2021

		nt Period ctual	rrent Year Actual	Anı	nual Budget - Original	V	ual Budget ariance - Original	P	rior Year Actual
Operating Revenues									
Vehicle registration fees	\$	274,590	\$ 3,509,231	\$	3,250,000	\$	259,231	\$	3,251,304
Interlocal agreement		44,866	279,780		283,367		(3,587)		291,770
Toll revenues		384,333	3,739,455	-	2,875,000		864,455		3,186,197
Total Operating Revenues	_	703,789	7,528,466		6,408,367		1,120,099		6,729,270
Operating Expenses									
Personnel costs		129,882	1,454,347		1,563,967		109,620		1,486,767
Accounting software and services		-	4,695		4,700		5		1,206
Professional services		16,000	268,120		301,600		33,480		288,363
Contractual services		2,911	46,644		60,500		13,856		35,969
Advertising & marketing		125	34,583		46,500		11,917		40,648
Data processing		158	9,549		11,000		1,451		7,642
Dues & memberships		160	19,579		23,275		3,696		20,957
Education & training		- 2	1,478		11,000		9,522		3,540
Fiscal agent fees		3,922	18,867		58,800		39,933		18,167
Insurance			73,725		76,000		2,275		73,118
Maintenance & repairs		250	5,755		13,000		7,245		21,982
Office supplies		28,423	272,615		280,275		7,660		207,113
Road maintenance		81,916	732,738		740,915		8,177		713,787
Leases		13,598	108,930		115,278		6,348		92,818
Toll services		43,061	183,234		212,500		29,266		130,863
Travel		2,398	6,938		32,350		25,412		25,972
Utilities		5,232	73,102		83,400		10,298		69,213
Contingency					94,164		94,164		
Total Operating Expenses		328,037	3,314,900		3,729,224		414,324		3,238,125
Net Change from Operations		375,752	4,213,567		2,679,143		1,534,424		3,491,146
Non Operating Revenue									
Pass through grant revenues			1,385,000		1,385,000		(4)		1,385,000
Project revenues		1			8		- 2		3,311
Interest income		10,119	70,241		50,000		20,241		61,050
TRZ Revenue		_	2,208,261		1,311,065		897,196		1,311,065
Other financing sources		13,112	4,234,704				4,234,704		(112,652)
Total Non Operating Revenue		23,231	7,898,207		2,746,065		5,152,142		2,647,775
Non Operating Expenses									
Bond Debt Expense		213,534	4,401,582		4,226,193		(175,389)		2,913,029
Debt Interest - LOC			380		25,950		25,570		6,258
Project expenses		9,385	216,835		1,173,065		956,230		315,291
Total Non Operating Expenses	2	222,919	4,618,797		5,425,208		806,411		3,234,579
Changes in Net Position	\$	176,063	\$ 7,492,976	\$		\$	7,492,976	\$	2,904,341

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Statement of Revenues and Expenditures - Monthly Project I/S - Unposted Transactions Included In Report From 9/1/2021 Through 9/30/2021

	ent Period Actual	rrent Year Actual
Non Operating Revenues		
Grant revenues		
Federal Revenue		
West Rail Corridor	\$ 284,988	\$ 284,988
SH550 GAP II	28,615	279,626
Whipple Road	52,629	113,081
Total Federal Revenue	366,232	677,696
State Revenue		
Whipple Road	9,342	71,043
Total State Revenue	9,342	71,043
Local Revenue		
West Rail Corridor	71,247	100,244
SH 32 (East Loop)	64,317	159,567
Whipple Road	3,816	11,337
Flor De Mayo Bridge	26,412	149,587
CC - Old ALice Road	53,184	235,57
CC - Consulting Services PF	-	88,000
CC - Administration Building	2,175	61,66
CC - Parks	41,650	41,650
Total Local Revenue	262,800	847,616
Total Grant revenues	638,374	1,596,354
Total Non Operating Revenues	638,374	1,596,354
Non Operating Expenses		
Project expenses		
West Rail Corridor	356,235	385,232
SH550 GAP II	28,615	279,626
SH 32 (East Loop)	64,317	159,567
Whipple Road	65,787	195,46
Flor De Mayo Bridge	26,412	149,58
CC - Old ALice Road	53,184	235,57
CC - Consulting Services PF	1,4	88,000
CC - Administration Building	2,175	61,66
CC - Parks	41,650	41,650
Total Project expenses	638,374	 1,596,354
Total Non Operating Expenses	638,374	1,596,354
Total Changes in Net Position	\$ 1.0	\$

## CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Balance Sheet As of 9/30/2021

	_	Current Year
ASSETS		
Current Assets:		
Cash and cash equivalents	\$	10,693,123
Restricted cash accounts - debt service	-	6,598,534
Accounts receivable, net		1114.0100
Vehicle Registration Fees - Receivable		572,405
Other		4,245,531
Total Accounts receivable, net	· ·	4,817,936
Accounts receivable - other agencies		2,739,920
Accrued interest		
Total Current Assets:	-	24,849,514
Non Current Assets:		- Hermier.
Capital assets, net		99,160,214
Capital projects in progress		24,154,657
Unamortized bond prepaid costs		99,746
Net pension asset		58,990
Total Non Current Assets:	·	123,473,607
Deferred Outflow of Resources		125,475,007
Deferred outflows related to bond refunding		145,267
Deferred outliflow related to pension		138,002
Total Deferred Outflow of Resources	_	283,269
Total ASSETS	\$	148,606,390
Total ASSETS	-	148,000,390
LIABILITIES		
Current Liabilities		
Accounts payable	\$	400,540
Accrued expenses		320,301
Deferred revenue		354,567
Total Current Liabilities		1,075,408
Non Current Liabilities		
Due to other agencies		16,184,188
Long term bond payable		75,293,488
Total Non Current Liabilities		91,477,675
Deferred Inflows of Resources	_	
Deferred inflows related to pension		31,006
Total LIABILITIES		92,584,090
NET POSITION		
Beginning net position		45,795,242
Total Beginning net position	V-	45,795,242
Changes in net position		45,755,242
Changes in het position		10,227,058
Total Changes in net position		10,227,038
Total NET POSITION		56,022,300
Total NET POSITION		30,022,300
TOTAL LIABILITIES, DEFERRED INFLOWS AND	NET POSITION \$	148,606,390

# CAMERON COUNTY REGIONAL MOBILITY AUTHORITY Statement of Cash Flows As of 9/30/2021

		Current Period	Current Year
Cash Flows from Operating Activities			
Receipts from vehicle registration fees	\$	303,320 \$	3,484,460
Receipts from interop toll revenues		160,667	1,494,498
Receipts from TPS toll revenues		278,526	2,639,884
Receipts from other operating revenues		44,866	2,490,075
Payments to vendors		(233,075)	(2,223,725)
Payments to employees		(114,771)	(1,443,620)
Total Cash Flows from Operating Activities	=	439,533	6,441,573
Cash Flows from Capital and Related Financing Activities			
Acquisitions of construction in progress		(80,267)	(855,039)
Payments on principal and interest		-	(4,392,808)
Line of credit payment		-	(462,643)
Proceeds related to redevelopment assets		1,419,746	1,398,866
Payment on interlocal project expenses		(291,524)	(1,368,954)
Interlocal project proceeds		13,112	5,992,868
Total Cash Flows from Capital and Related Financing Activities		1,061,067	312,290
Cash Flows from Investing Activities			
Receipts from interest income		10,119	70,241
Total Cash Flows from Investing Activities		10,119	70,241
Beginning Cash & Cash Equivalents			
	_	15,780,938	10,467,554
Ending Cash & Cash Equivalents	\$	17,291,658 \$	17,291,658

2-E	CONSIDERATION AND APPR	OVAL OF RESOLUTION N	O. 2021-001

# THE STATE OF TEXAS COUNTY OF CAMERON

### RESOLUTION 2021-001

BE IT RESOLVED THAT ON THE 21ST DAY OF OCTOBER, 2021, THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY CONVENED IN REGULAR SESSION, AND UPON THE REQUEST OF THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY BOARD OF DIRECTORS, THE FOLLOWING ITEM WAS OFFERED AND ADOPTED, TO WIT:

#### "CONSIDERATION AND APPROVAL OF RESOLUTION NUMBER 2021-001"

WHEREAS: the Cameron County Regional Mobility Authority's (CCRMA) mission since its inception in

2005 is to promote safe and effective mobility, improve the quality of life for area residents, and to create economic development to attract job growth all through a sustainable transportation

network; and

WHEREAS: CCRMA staff would like to deposit excess funds into a restricted account where funds will be

deposited and utilized for the payment of debt service exclusively. Any deviation would require

Board approval.

NOW THEREFORE BE IT FURTHER PROCLAIMED, that the Cameron County Regional Mobility Authority Board of Directors authorizes staff to deposit excess funds into a restricted account where funds will be deposited and only utilized for payment of debt service if needed. Any deviation for the use of those funds would require Board approval.

Passed, Approved and Adopted on this 21st day of October, 2021.

CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

FRANK PARKER, JR. CHAIRMAN

Absent

MICHAEL SCAIEF

VICE CHAIRMAN

AL VILLARREAL TREASURER

MARIA VILLEGAS, M.D. DIRECTOR ARTURO A. CISNEROS

SECRETARY

MARK ESPARZA DIRECTOR

LEO GARZA DIRECTOR 2-F CONSIDERATION AND APPROVAL OF AN INTERLOCAL AGREEMENT BETWEEN CAMERON COUNTY AND THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY REGARDING ADMINISTRATIVE SERVICES.

#### INTERLOCAL AGREEMENT

This Interlocal Agreement (the "Agreement") is made and entered into effective as of the Effective Date, hereinafter defined, by and between the CAMERON COUNTY REGIONAL MOBILITY AUTHORITY (the "CCRMA"), a political subdivision of the State of Texas, and CAMERON COUNTY, TEXAS (the "County").

#### **RECITALS**

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

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

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

WHEREAS, this Agreement will increase the efficiency and effectiveness of the CCRMA and the County as contemplated by TEX. GOV'T CODE § 791.001; and,

WHEREAS, Pete Sepulveda, Jr., is the Executive Director of the CCRMA; and,

WHEREAS, Mr. Sepulveda has previously served as the Executive Director of the CCRMA and the County Administrator of the County for several years; and,

WHEREAS, the County Administrator position is currently unoccupied, and the County intends to fill that position; and,

WHEREAS, in the interim, the County needs someone to temporarily serve as the County Administrator and believes that Mr. Sepulveda is the most qualified person to temporarily serve as the County Administrator; and,

WHEREAS, by approving this Agreement, the CCRMA and the County determine that this Agreement furthers each of their interests and that this Agreement is therefore in the public interest;

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree, as follows:

# I. FINDINGS

1.1. Recitals. The recitals set forth above are incorporated herein for all purposes and are found by the parties to be true and correct. It is further found and determined that the parties have authorized and approved the Agreement by action taken by the CCRMA's Board of Directors and the County's Commissioners Court, and that this Agreement will be in full force and effect when approved by the parties (the "Effective Date").

# II. SERVICES, TERM, AND COMPENSATION

- 2.1. Provision of Services. The governmental functions and services provided by Mr. Sepulveda to the County under this Agreement shall be pursuant to the job description for the County Administrator most recently approved by the Commissioners Court or as hereafter assigned by the Commissioners Court subject to prior written approval of the CCRMA. The CCRMA and the County hereby find that the foregoing is reasonably required and in the public interest.
- 2.2. Term and Termination. The primary term of this Agreement shall commence on the Effective Date (October 1, 2021) and shall continue in full force and effect for thirty six (36) months (the "Primary Term"). Notwithstanding the foregoing, either party may unilaterally terminate this Agreement at any time by giving the other party at least thirty (30) days prior written notice of its intent to terminate.
- 2.3. Compensation. In return for the services provided under this Agreement, the County shall pay the CCRMA the amount of \$10,000.00 in monthly installments during the term of this Agreement. Any monies paid by the County shall be paid from the current revenues of the County. The County represents to the CCRMA that the funds for this Agreement are currently budgeted and will be included in each budget for each applicable fiscal year during the term of this Agreement.

# III. GENERAL AND MISCELLANEOUS

- 3.1. Information. Upon reasonable advance notice, the parties at their own expense may audit each other's books and records that directly relate to the subject matter of this Agreement. Notwithstanding the foregoing and any other provision of this Agreement, each party (the "Receiving Party") shall preserve and maintain the information received from the other party (the "Disclosing Party"). The Disclosing Party shall advise the Receiving Party if any information is confidential and not subject to disclosure. Each party shall at all times act in compliance with applicable laws concerning disclosure. These obligations survive the expiration or termination of this Agreement.
- 3.2. Subsequent Agreements. Mr. Sepulveda is authorized to enter into subsequent written agreements directly with the County provided that the CCRMA Board of Directors provides its prior written approval for such agreements.
- 3.3. Indemnification and Insurance. To the extent allowed by law, the County agrees to defend and indemnify Mr. Sepulveda for all losses sustained by Mr. Sepulveda as a direct result of the discharge of his duties under this Agreement provided that such losses are not based on the

intentional misconduct, gross negligence, or bad faith of Mr. Sepulveda. To the extent allowed by law, the County agrees to defend and indemnify Mr. Sepulveda for all losses sustained by him as a direct result of any claims that arose before the Effective Date, or that otherwise relate to any action or inaction by any prior County Administrator.

- 3.4. Working Conditions. The County will provide Mr. Sepulveda with a private office, secretarial services, computer, e-mail services, cellular telephone, and any other facilities and services suitable to the County Administrator position or required for the performance of his duties.
- 3.5. Conflict. In the event a conflict of interest arises between the CCRMA and the County in Mr. Sepulveda's performance of the services described in section 2.1, this Agreement shall terminate immediately upon written notice by the CCRMA to the County provided that the County does not waive any conflict.
- 3.6. Notices. All written notices, demands, and other papers or documents to be delivered to either party under this Agreement shall be delivered by courier, hand delivery, or overnight express mail service, to:

To the CCRMA:

Cameron County Regional Mobility Authority

3461 Carmen Ave.

Rancho Viejo, Texas 78575

Attn: CCRMA Chairman Frank Parker, Jr.

To the County:

Cameron County 1100 East Monroe St. Brownsville, TX 78520

Attn: Cameron County Judge Eddie Trevino, Jr.

- 3.7. Governing Law. This Agreement shall be construed, interpreted, and the rights of the parties determined in accordance with the laws of the State of Texas, as applied to contracts made and performed within the State of Texas, without regard to principles of conflicts of law.
- 3.8. Entire Agreement. This Agreement embodies the entire agreement between the parties and supersedes all prior agreements and understandings relating to the subject matter hereof. This Agreement may not be amended or modified except in writing and executed by both parties to this Agreement and authorized by the CCRMA's Board of Directors and the County's Commissioners Court.
- 3.9. Assignability. Neither this Agreement nor any right, duty, obligation, or interest hereunder may be assigned or delegated by one party hereto without the prior written consent of the other party hereto.
- 3.10. Severability. If any provision of this Agreement, or the application thereof, shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof, but rather this entire Agreement will be construed as if not containing the particular invalid or unenforceable provision(s), and the rights and obligations of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this Agreement is determined to be invalid or unenforceable, it is their desire and intention that such provision be reformed and construed in such a manner that

it will, to the maximum extent permitted by applicable law, give effect to the intent of this Agreement and be deemed to be validated and enforceable.

- 3.11. Other Services. Nothing in this Agreement shall be deemed to create, by implication or otherwise, any duty or responsibility of either of the parties to undertake or not to undertake any other service, or to provide or not to provide any service, except as specifically set forth in this Agreement or in a separate written instrument executed by both parties.
- 3.12. Governmental Immunity. The parties acknowledge that this Agreement provides for the provision of goods and services and is subject to Tex. Loc. Gov't Code, Sec. 271.151, et. seq. Subject thereto, nothing in this Agreement shall be deemed to waive, modify, or amend any legal defense available at law or in equity to either of the parties nor to create any legal rights or claims on behalf of any third party. Neither of the parties waives, modifies, or alters to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.
- 3.13. Relationship of the Parties. Nothing in this Agreement is intended to create, nor shall be deemed or construed by the parties or by any third party as creating the relationship of principal and agent, partnership, or joint venture between the parties and/or any other party. Without limiting the foregoing, the purposes for which the parties have entered into this Agreement are separate and distinct, and there are no pecuniary interests, common purposes and/or equal rights of control between the parties hereto. Each party agrees it is responsible for its negligent actions and the negligent actions of its contractors, employees, representative, and agents. Neither party waives any powers, rights or defenses it may have under applicable law.
- 3.14. No Third-Party Beneficiaries. This Agreement is entered into for the sole benefit of the parties and their respective successors. Nothing in this Agreement nor in any approval subsequently provided by either party hereto will be construed as giving any benefits, rights, remedies, or claims to any other person, firm, corporation, or other entity, including, without limitation, the public in general or any member thereof, any contractor of either party, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries, property damage, or any other relief in law or equity in connection with this Agreement. In the event that the approval by a third party of this Agreement is required by law, obtaining such third party's approval does not demonstrate an intent by either party or either party's successors to make such third party a third-party beneficiary of this Agreement. Both parties disclaim any intent to have any third-party beneficiaries to this Agreement to the fullest extent allowed by law.
- 3.15. Successors and Assigns. This Agreement shall bind and shall be for the sole and exclusive benefit of the parties and their legal successors, except as provided herein. Other than as provided in the preceding sentence, neither party shall assign, sublet or transfer its respective interest in this Agreement without the prior written consent of the other party to this Agreement. Any assignment in violation of this paragraph shall be void and shall constitute a default under this Agreement.
- 3.16. Limitations. All covenants and obligations of the parties under this Agreement shall be deemed valid covenants and obligations of said entities, and no officer, director, or employee of the parties shall have any personal obligations or liability hereunder. Venue for any cause of action arising out of or related to this Agreement shall be in Cameron County, Texas.

- 3.17. Authorization. Each party to this Agreement represents to the other that it is fully authorized to enter into this Agreement and to perform its obligations hereunder, and that no waiver, consent, approval, or authorization from any third party is required to be obtained or made in connection with the execution delivery or performance of this Agreement. Each signatory on behalf of the parties, as applicable, represents that he or she is fully authorized to bind that entity to the terms of this Agreement.
- 3.18. Interpretation. In the event of a question as to the interpretation of any provision of this Agreement, the provision shall not be construed against the drafting party.
- 3.19. Waiver. No delay or omission by either party hereto to exercise any right or power hereunder shall impair such right or power or be construed as a waiver thereof. A waiver by either of the parties hereto of any of the covenants, conditions or agreements to be performed by the other or any breach thereof shall not be construed to be a waiver of any succeeding breach thereof or of any other covenant, condition or agreement herein contained. No course of dealing between the parties will be a waiver of a right, remedy, or condition under this Agreement.
- **3.20.** Counterparts. This Agreement may be executed in several counterparts, each of which shall be deemed an original, and all such counterparts shall constitute one single agreement between the parties.
- 3.21. Headings. The article and section headings used in this Agreement are for reference and convenience only and shall not enter into the interpretation hereof.
- 3.22. Entire Agreement. This Agreement when executed constitutes the entire agreement between the parties with respect to the subject matter hereof. There are no representations, understandings or agreements relative hereto which are not fully expressed in this Agreement.

(Signature Page to Follow)

IN WITNESS WHEREOF, the parties have executed this Agreement on the dates shown below, to be effective on the date listed above.

ATTEST:

Interlocal Agreement

**CAMERON COUNTY** 

Arturo A. Nelson
Secretary

ATTEST:

REGIONAL MOBILITY AUTHORITY

Frank Parker, Jr, Chairman

Date:

CAMERON/COUNTY

Sylvia Garza-Pera County Clerk

Eddie Trevino, Jr. County Judge

Date: 10/26/2021

2-G CONSIDERATION AND AUTHORIZATION TO APPROVE A JOB ORDER CONTRACTING AGREEMENT WITH A & I CUSTOM MANUFACTURING, LLC FOR CONSTRUCTION AND RENOVATION OF THE CAMERON COUNTY ISLA BLANCA TOLL BOOTHS VIA CONTRACT WITH CHOICE PARTNERS.

2-H CONSIDERATION AND APPROVAL TO TERMINATE WORK AUTHORIZATION NO. 19 WITH S&B INFRASTRUCTURE REGARDING THE EAST LOOP PROJECT.

#### **WORK AUTHORIZATION NO. 19**

This Work Authorization is made as of this \_\_\_28th\_\_ day of \_\_\_\_\_\_, 2020, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING CIVIL ENGINEERING SERVICES, dated as of May 10, 2018 (the "Agreement"), between the Cameron County Regional Mobility Authority (the "Authority") and S&B Infrastructure, Ltd. (the "GEC" or "Engineer").

This Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement: Professional services including: providing engineering services for the preparation of Plans, Specifications & Estimates (PS&E) and Construction Management support services for the proposed roadway project as identified in Contract as East Loop from Interstate 69E to 1.57 Miles East of the intersection of SH 4 and FM 1419 along with levee relocation -- Project Roadway Length = 11.4 Miles Project Levee Length 1.7 Miles.

## Section A. - Scope of Services

A.1. GEC shall perform the following Services:

GEC shall perform the Services as listed in Exhibit B and as requested by the Authority.

#### Section B. - Schedule

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

## Section C. - Compensation

- C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the Engineer the amount not to exceed \$3,424,587.32, based on the attached fee estimate shown on Exhibit D. Compensation shall be in accordance with the Agreement.
- C.2. The Authority shall pay the GEC under the following acceptable payment method Lump Sum Payment Method.
- C.3. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

### Section D. - Authority's Responsibilities

The Authority shall perform and/or provide the services as stated in Exhibit A in a timely manner so as not to delay the Services of the Engineer.

## Section E. - Other Provisions

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

-SIGNATURES ON NEXT PAGE-

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

## CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

Frank Parker, Jr., Chairman

Date: (0 /30 /30)

S&B INFRASTRUCTURE, LTD.

By: Natl De.
Daniel O. Rios, PE, President

Date:

LIST OF EXHIBITS

Exhibit A - Authority's Responsibilities

Exhibit B - Services to be Provided by Engineer

Exhibit C - Work Schedule

Exhibit D - Cost Proposal

# EXHIBIT A Authority's Responsibilities

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

## **GENERAL**

The **Authority** will provide to the **Engineer** the following:

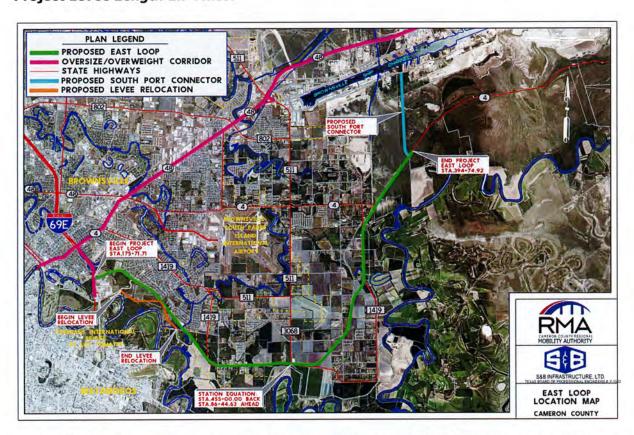
- Provide Engineer with a Notice to Proceed.
- (2) Payment for work performed by the **Engineer** and accepted by **Authority** in accordance with this Agreement.
- (3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, **State** and Federal agencies that the **Engineer** cannot easily obtain.
- (4) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain an agreed-upon work schedule.
- (5) Coordinate with TxDOT for items as needed. The Authority will negotiate and approve all change orders and other contract revisions that the Authority finds necessary or convenient to accomplish the construction activities for the Project. For change orders and other contract revisions that affect prior environmental approvals or result in non-conformity with the specifications and standards agreed upon for the Project, the Authority must assess any potential environmental effects and any additional or revised environmental permits, issues, coordination, mitigation, and commitments required as a result of the contract revisions.
- (6) Provide the **Engineer** the previous obtained mylars and electronic MicroStation files for the project.
- (7) Assist the **Engineer** in notifying previous Engineer Designers of modifications being made to existing plan designs.

## **EXHIBIT "B"**

Services to be Provided by the Engineer

## **GENERAL**

The work to be performed by the **Engineer** under this contract consists of providing engineering services required for the preparation of Plans, Specifications and Estimates (PS&E) and Construction Management support services for the proposed roadway project as identified in Contract as **East Loop from Interstate 69E to 1.57 Miles East of the intersection of SH 4 and FM 1419 along with levee relocation -- Project Roadway Length = 11.4 Miles <b>Project Levee Length 1.7 Miles.** 



The existing traffic capacity on existing roadways and number of main lanes must be maintained at all times during construction of the new facility, with any exceptions to be approved by the **State/Authority**. The Levee relocation must be completed to the Top of Levee Elevation (TOLE) without freeboard before the existing levee is removed. The **Engineer** shall prepare plans, details and compute quantities to include roadway design, grading, paving, sidewalks, drainage including pump stations, traffic signals, signing, pavement markings, illumination – safety lighting, traffic control plans, storm water pollution prevention plans, retaining walls – noise walls, levee relocations, border fence relocation, specifications, and cost estimates. The **Engineer** shall prepare the bridge layouts and furnish the structural details, confirm the layouts and/or structural details with the **Authority**, and bridge quantities for the designated bridges. The **Engineer** shall also provide Construction Phase Services. (Construction Management Services are not included in this scope at this time)

The **Engineer** shall collect, review and evaluate the available existing data pertaining to the project and prepare the Plans, Specifications and Estimates in accordance with the requirements and policies of the **State/Authority**.

The **Engineer** shall identify, prepare exhibits and complete all necessary forms for Design Exceptions and/or Waivers within project limits <u>prior</u> to the 30% Submittal. These exceptions shall be provided to the **State/Authority** for coordination and processing of approvals. If subsequent changes require additional exceptions, the **Engineer** shall notify the **State/Authority** as soon as possible after identification.

The **Engineer** shall provide field surveying services necessary to produce the Digital Terrain Model (DTM), produce topographic maps, establish the project baseline on the ground, locate and tie existing utilities to the project baseline. Coordinate geometry shall be based on and tied into **State** plane surface coordinate system. During all surveying operations the traffic shall be controlled in accordance with the latest edition of the Texas Manual on Uniform Traffic Control Devices-Part IV.

It shall be the responsibility of the **Engineer** to secure permission to enter private property for the purpose of performing any surveying, environmental and engineering/geotechnical activities. In pursuance of the **State/Authority**'s policy with the general public, the **Engineer** shall not commit acts which will result in damages to private property and the **Engineer** will make every effort to comply with the wishes and address the concerns of private property owners. The **Engineer will**, at all times, contact the property owner prior to any entry onto the owner's property.

The **Engineer** shall coordinate with adjacent Engineers on all controls at interfaces. In the event agreement cannot be reached, each **Engineer** shall meet jointly with the **State/Authority** for resolution. The **State/Authority** shall have authority over the Engineers' disagreements and its decision shall be final.

The **Engineer** shall perform their work in accordance with the **State**'s <u>Utility Accommodation Policy.</u> The **Engineer** shall prepare drawings early in the design phase (30 %) to be used as exhibits in utility agreements. The exhibits shall be prepared using English units. The **Engineer** shall show existing utilities, including those in conflict with construction on this project. The **Engineer** shall prepare plans to avoid utility adjustments, where feasible. The **Engineer** shall be responsible for sending out notices, with copies of exhibits and plans, including all milestone submittals.

The **Engineer** shall compile, maintain and update a Utility Conflict List. The **Engineer** shall provide the most current copy of the conflict list to the **State/Authority** at each milestone submittal and shall be responsible for coordination with utility companies to resolve conflicts. The Utility Conflict List shall identify the owner of the facility, the contact person (with address and telephone number), location of conflict (station and offset), type of facility, expected clearance date and type of adjustment necessary.

The **Engineer** shall prepare any exhibits necessary for IBWC, CBP and/or Utility approvals, and other governmental/regulatory agencies, specific to the project.

The **Engineer** shall coordinate through the **Authority**'s Project Manager for the development of the PS&E with any local entity having jurisdiction or interest in the project (e.g. city, county, municipal utility district, irrigation district, drainage district, etc.)

The **Engineer** shall conduct traffic counts, prepare Traffic Signal Warrant Studies and traffic signal plans for temporary, existing and permanent locations at designated intersections.

The **Engineer** shall prepare Traffic Control Plans (TCP) in coordination with the **State/Authority**. The TCP shall include interim signing for every phase of construction. This is to include regulatory, warning, construction, route, and guide signs. The **Engineer** shall interface and coordinate phases of work, including the TCP, with adjacent Engineers, which are responsible for the preparation of the PS&E for adjacent projects.

The **Engineer** shall maintain continuous access to abutters during all phases of the TCP. The **Engineer** shall develop a list of all abutters along its alignment. The **Engineer** shall prepare exhibits for and attend meetings with the public, as requested by the **State/Authority**.

The **Engineer** shall provide safety lighting at all intersections and interchanges required within the Project limits. The **Engineer** shall prepare exhibits as required to obtain agreements with adjacent municipalities. The **Engineer** shall tabulate all quantities and provide summary sheets.

The **Engineer** shall make every effort to prevent detours and utility relocations from extending beyond the proposed Right-of-way lines. If it is necessary to obtain additional permanent or temporary easements and/or Right-of-Entry, the **Engineer** shall notify the **State/Authority** in writing of the need and justification for such action. The **Engineer** shall identify and coordinate with all utility companies for relocations required.

The PS&E shall be complete and organized in accordance with the most current TxDOT-PS&E Preparation Manual. The PS&E package shall be suitable for the bidding and awarding of a construction contract, and in accordance with the latest **State/Authority**'s policies and procedures.

The **Engineer** shall use CADD to fully develop all drawings. The **Engineer** shall utilize corridor modeling software for the earthwork and cross-section data files in a GEOPAK format at each milestone submittal as an evolving electronic data file.

The **Engineer** shall design, develop and prepare all documents, including PS&E, in English units. The final plan sheets shall be size  $11'' \times 17''$ , signed, sealed and dated by a Professional Engineer registered in the **State** of Texas (where required). The plans shall be noted as copyrighted with the **Authority's** and **State's** logo.

PS&E for the above work shall be prepared in accordance with the applicable requirements of the **State**'s Specifications, Standards and Manuals (latest revision). Whenever possible, the **State**'s standard drawings, standard specifications, or previously approved special provisions and/or special specifications shall be used. If a special provision or a special specification must be developed or modified for this project, it shall be in the **State**'s format and, to the extent possible, incorporate references to approved **State** test procedures. Any specifications developed by the **Engineer** shall be submitted to the **State/Authority** for approval prior to

inclusion in the PS&E. The **Engineer** shall sign, seal, and date all project specific modifications to standard drawings.

The **Engineer** shall make submittals, as defined by the milestones in Exhibit C, and in accordance with the latest **State/Authority**'s policies and procedures. The submittals shall consist of electronic .pdf submittals. The **Engineer** shall reply to each comment either within the plan set or by separate cover letter. The **Engineer** shall make all agreed upon changes to the submitted documents before the next scheduled submittal.

The **Engineer** may be required to meet with the **Authority**'s Project Manager to report on progress. After each meeting with the **State** and any other meeting, the **Engineer** shall prepare meeting minutes, solicit and incorporate participants' comments, distribute the minutes, submit a memorandum summarizing the events, including an ACTION ITEM LIST, within five (5) working days of the meeting.

The **Engineer** shall invoice monthly according to Function Code breakdowns in accordance with the format provided at the Kick-off meeting and shall include Form 132 version 9-90 or equivalent. This invoice shall include a completed Form 132, a written progress report, a Projected vs. Actual Contract Invoices by Month form and a bar chart indicating the percentage of completion of each task shown in Attachment E. The written progress report shall describe activities during the reporting period; activities planned for the following period; problems encountered, and actions taken to remedy them; list of meetings attended; and overall status, including a per cent complete by task.

The **Engineer** shall design all conventional storm drainage and cross drainage systems. The **Engineer** shall evaluate the hydraulic grade line throughout the whole system, within the project limits, for the design frequency(ies) and make necessary system adjustments for conformance to program criteria. Should there be adjacent projects under design, the **Engineer** shall coordinate with the **State/Authority** and designers of adjacent projects such that all proposed drainage systems accommodate the proposed construction phasing plan.

The **Engineer** shall include the Storm Water Pollution Prevention Plans (SW3P) items for each phase of constructions, including details and pay quantities with respect to the Construction phase. The **Authority** will provide the Notice of Intent.

The **Engineer** shall prepare both a design time schedule, and an estimated construction contract time schedule, using the latest version of Excel, Primavera or SureTrak software in accordance with the **State**'s *Administrative Circular No. 17-93*. The schedules shall indicate tasks, production rates, subtasks, critical dates, milestones, deliverables and review requirements in a format that depicts the interdependence of the various items. The **Engineer** shall aid **State/Authority** personnel in interpreting the schedules. Milestone submittals shall be at 30 %, 60 %, 90%, 95% and final. If the **Engineer** cannot meet the scheduled milestone review date they are to advise the **State/Authority** in writing.

In addition to scheduling software set forth above, reports and/or spreadsheets prepared in connection with these services shall be in the Microsoft (MS) Office software compatible with the versions to the **State/Authority**'s software packages.

The project's engineering work may be inspected by both the **State/Authority** and the Federal Highway Administration in the offices of the Engineer, except for the field work which shall be performed on-site, and the sub-consultant work which will be performed in the office of the sub-consultant. After notice to proceed is given in writing, the PS&E for the work outlined above shall be completed and submitted to the **State/Authority** within the negotiated contract period per the identified milestones in the schedule.

All documents submitted to the **State/Authority** shall be accompanied by a letter of transmittal which shall include, but need not be limited to, the highway number, project limits, county, CSJ, and contract number.

The **Engineer** shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the **State/Authority**. The **State/Authority** must approve any replacement to the Engineer's designated Project Manager.

The **Engineer** shall prepare and execute contracts with sub-consultants, monitor sub-consultant activities (staff and schedule), and review and recommend approval of sub-consultant invoices.

The **Engineer** shall implement their Quality Assurance/Quality Control program prior to submitting plans to the **State/Authority** for each of the milestones. The **Engineer** is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The **Engineer**'s responsibility for all questions arising from design errors and/or omissions will be determined by the **State/Authority** and all decisions shall be final and binding. This would include, but not necessarily be limited to:

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

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

#### **WORK OUTLINE**

## **ROUTE AND DESIGN STUDIES** (Function Code 110)

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

- 1. Data, if available, from the **State/Authority**, including "as-built plans", existing schematics, right-of-way maps, SUE mapping, existing cross sections, existing planimetric mapping, environmental documents, existing channel and drainage easement data, existing traffic counts, accident data, BRINSAP records, PMIS data, identified endangered species, identified hazardous material sites, current unit bid price information, current special provisions, special specifications, and standard drawings.
- 2. Documents for existing and proposed development along proposed route from local municipalities and local ordinances related to project development.
- 3. Utility plans and documents from appropriate municipalities and agencies.
- 4. Readily available flood plain information and studies from the Federal Emergency Management Agency (FEMA), the U. S. Army Corps of Engineers, local municipalities and other governmental agencies in addition to that provided by the **State/Authority**.
- **B. Field Reconnaissance.** The **Engineer** shall conduct field reconnaissance and collect data including a photographic record (to be maintained in Engineer's office) of notable existing features.
- C. Design Concept Conference. The Engineer, in cooperation with the State/Authority shall plan, attend and document a Design Concept Conference (DCC). Personnel from the State's Pharr District will participate. The conference will provide for a brainstorming session in which decision makers, stakeholders, including USIBWC and technical personnel may discuss and agree on:
  - 1. Roadway and drainage design parameters
  - 2. Engineering and environmental constraints
  - 3. Project development schedule
  - 4. Other issues as identified by the **State/Authority**
- **D.** Roadway and Hydraulic Design Criteria. The Engineer shall design the project using the State's design criteria. The Engineer shall supply project specific design criteria (typical sections, estimate, design exceptions, etc.) to be inserted into the Design Elements form for discussion at the DCC.

The Engineer shall develop the roadway design criteria based on the controlling factors specified (i.e. 4R, 3R, 2R, or special facilities), by use of the funding categories, design speed, functional classification, roadway class and any other set criteria as set forth in Roadway Design Manual, Bridge Design Manual, Hydraulic Design Manual, and other deemed necessary State approved manuals. In addition, the Engineer shall prepare the Design Summary Report, DSR.

FIELD SURVEYING AND PHOTOGRAMMETRY (Function Code 150)

**A. Field Surveying.** The **Engineer** shall verify and reset existing benchmarks previously set in previous work orders.

## The **Engineer** shall:

- 1. Stake Project Baseline: The project base line must be coincidental with, or parallel to, the stationed "Design Center Line." Base line control points shall be established using 15M(ASTM) (5/8 inch) iron rods, 36 inches long, at P.C.'s, P.I.'s and P.T.'s of horizontal curves and at 1000 feet maximum intervals on tangents. Baseline control points shall be offset with set iron rods on both sides near the existing ROW lines at a measured distance. If available, coordinate to field tie to the Project baseline set by adjacent Engineers for consistency and accuracy.
- Vertical Control for existing Benchmarks: Locate previously set benchmarks established by Engineer (In accordance to the horizontal control of North American Datum of 1983 (NAD 83) with elevations being based on the North American Datum 88 (NAVD88); establish benchmark circuit (run levels) throughout the Project; establish additional benchmarks at intervals not to exceed 1,000 feet for the limits of the Project; tie benchmarks (station/offset) to Project baseline. Benchmarks shall be 20M (ASTM) (3/4-inch) diameter, 48 inches long, located near the existing ROW line at a measured distance. All benchmark circuits shall be tied to the State's elevation datum. Perform the benchmark circuits in accordance with good surveying practices. The Surveyor shall verify the closure and submit adjustments to State/Authority for approval prior to beginning the field surveys.
- 2A. Vertical Control for new Benchmarks: Shall meet the following requirements:
  - TxDOT GPS Level 3 (VRS) Survey guidelines and shall have (X, Y, & Z) coordinates assigned to them. (Access will be provided to State's Real Time Kinematic (RTK) Virtual Reference Station (VRS) Network via license agreement)
  - · Provide Station and Offset.
  - Perform a three wire level routine in SDMS to establish the elevations of the benchmarks.
  - 3. Profile and cross section intersecting streets and driveways (to 50 feet outside ROW for driveways, and 200 feet for intersecting streets and 500 feet for intersecting streets greater than two lanes wide) for tie into project.
  - 4. Cross section drainage channels for a distance of 200 feet each way outside the ROW lines. Cross sections shall not exceed 100 feet intervals and shall be taken at right angles to the channels.
  - 5. Secure right-of-entry (short of litigation), as needed for the project.
  - 6. Tie to existing underground and overhead utilities (location, elevation, size and direction), in accordance with Attachment A.
  - 7. ROW staking for additional field topography related to design work.

- 8. Determine and make changes to topography from outdated maps due to development, erosion, etc.
- 9. Determine type of existing material, pavements, etc.
- 10. Obtain profiles of existing drainage facilities.
- 11. Obtain measurement of hydraulic opening under existing bridges.
- 12. Obtain top of manhole and flowline elevations, type and size, etc. of manholes, inlets, and valves of utilities.
- 13. Provide temporary signs, traffic control, flags, safety equipment, etc. and obtain necessary permits.
- 14. Obtain ties to existing bridges or culverts that may conflict with new construction.
- 15. Verify DTM (cross sections at panel points). Obtain additional existing ground cross sections as necessary to supplement the DTM files. Obtain cross sections at the center panel points to verify the DTM.
- 16. Obtain line (PGL) and the edges of slab at bent location.
- 17. Perform datum ties as required. If required, establish an elevation base on the **State**'s datum to other public entities published benchmarks.
- 18. The Surveyor using wetlands delineation information provided by the **State/Authority** shall stake the areas containing wetlands. The Surveyor is to information back to the **Engineer** in an electronic file to be incorporated onto the P&P sheets
- 19. The Surveyor shall provide all traffic control, labor and equipment while performing their services and comply with the latest edition of the *Texas Manual on Uniform Traffic Control Devices*. In the event field personnel must divert traffic or close traveled lanes, a Traffic Control Plan shall be prepared by the **Engineer**'s surveyor and approved by the **State/Authority** prior to commencement of field work. A copy of the approved plans shall be in the possession of field personnel on the job site at all times and shall be made available to **State/Authority** personnel upon request.
- 20. All standards, procedures and equipment used by the Surveyor shall be such that the results of survey will be in accordance with Board Rule 663.15, as promulgated by the Texas Board of Professional Land Surveyors. At a minimum, the following standards of accuracy shall be met:

## **B.** Horizontal Ground Control

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

Reference may be made to standards of accuracy for Second Order, Class II, horizontal control traverses as described in the Federal Geodetic Control Committee publication

entitled *Standards and Specifications for Geodetic Control Networks*, reprinted February 1991.

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

#### C. Vertical Ground Control

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

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

#### **ROADWAY DESIGN** (Function Code 160)

A. Roadway & Levee Design. All roadway and levee design will be based on the approved Schematics provided by the Authority. The Engineer shall provide roadway and levee plan and profile drawings using CADD standards as required by the State/Authority. The drawings shall consist of a planimetric file of existing features and files of the proposed improvements. The roadway and levee base map shall contain line work that depicts existing surface features obtained from the schematic drawing. Existing major subsurface and surface utilities shall be shown. Existing and proposed right-of-way lines shall be shown.

The plan view shall contain the following design elements:

- 1. Calculated roadway centerlines for new eastbound and/or westbound mainlanes, ramps, and cross streets. Horizontal control points shall be shown. The alignments shall be calculated using GEOPAK.
- 2. Pavement edges for all improvements (mainlanes, ramps, cross streets access roads, maintenance roads and driveways).

- 3. Lane and pavement width dimensions.
- 4. The geometrics of ramps, auxiliary and managed lanes.
- 5. Proposed structure locations, lengths and widths.
- 6. Direction of traffic flow on all roadways. Lane lines and/or arrows indicating the number of lanes shall also be shown.
- 7 Drawing scale shall be 1"=100'
- 8. Access Denial line & ROW lines and easements.
- 9. Begin/end superelevation transitions and cross slope changes.
- 10. Limits of riprap block sod and seeding.
- 11. Existing utilities and structures.
- 12. Benchmark information.
- 13. Radii callouts, curb location, CTB, guard fence, crash safety items and American with Disabilities Act Accessibility Guidelines (ADAAG) compliance items.

The profile view shall contain the following design elements:

- 1. Calculated profile grade for proposed roadways, including mainlanes, direct connectors, ramps, cross streets and frontage roads. Vertical curve data, including "K" values shall be shown.
- 2. Existing and proposed profiles along the proposed centerline of the mainlanes, the outside shoulder line of ramps, and the outside gutter line of frontage roads.
- 3. Water surface elevations at major stream crossing for 10-, 25-, 50-, and 100- year storms.
- 4. Calculated vertical clearances at grade separations and overpasses, taking into account the appropriate superelevation rate, superstructure depth and required clearance.
- 5. The location of interchanges, mainlanes, grade separations and ramps (shall include cross sections of any proposed or existing roadway, structure, or utility crossing).
- 6. Drawing vertical scale to be 1''=10'.
- 7. For the Levee sheets the Design Water Surface profile shall also be shown.
- **B. Typical Sections:** Typical sections shall be required for all proposed and existing roadways, levees, and structures. Typical sections shall include width of travel lanes, shoulders, outer separations, border widths, curb offsets, managed lanes, and ROW. The typical section shall also include PGL, centerline, pavement design, longitudinal joints, side slopes, sodding/seeding limits, concrete traffic barriers, station limits, common proposed/existing structures including retaining walls, riprap, limits of embankment excavation, etc.
- C. Roadway Design: The Engineer shall provide the design of all roadways, including mainlanes, entrance and exit ramps, managed lanes and auxiliary lanes. The design shall be consistent with the approved schematic and the current Roadway Design Manual. If managed lanes are to be designed this work shall be coordinated through the State/Authority.
- **D. Levee Design:** The **Engineer** shall provide the design of the levee relocation in coordination with the USIBWC. A continuous maintenance road shall be provided. The

- design shall be consistent with the approved schematic and the current *Design and Construction of Levees Manual.*
- **E. Cross Streets:** The **Engineer** shall provide an intersection layout detailing the pavement design and drainage design at the intersection of each designated major cross street. The layout shall include the curb returns, geometrics, transition length, stationing, pavement and drainage details. The **Engineer** shall design for full pavement width to the ROW and provide a transition to the existing roadway.
- **E. Cut and Fill Quantities.** The **Engineer** shall develop an earthwork analysis which will be based on Open Roads utilizing 3d modeling. Cross sections shall be delivered in standard GEOPAK format on 11"x17" sheets and electronic files. The **Engineer** shall provide all criteria and input files used to generate the design cross sections. Cross sections and quantities shall consider existing pavement removals. Two sets of drawings shall be submitted by the **Engineer** at the 30%, 60%, and 90%, and final submittals, respectively.
- **F. Border Fence Relocation.** The Engineer shall coordinate through the **Authority** with United States Department of Homeland Security (DHS) for the requirements and regulations for the border fence relocation. The temporary fence shall be salvaged as per DHS guidelines.
- **H. Plan Preparation.** The **Engineer** shall prepare roadway plans, profiles and typical sections for the proposed improvements. This scope of services and the corresponding cost proposal are based on the **Engineer** preparing plans to construct east and west bound lanes, ramps, and cross streets at intersections. Wetlands information as provided by the **State/Authority** is to be staked by the **Engineer** for delineation and this data shall be electronically transferred to the P&P sheets.
- I. Pavement Design. The Engineer shall incorporate the pavement design developed by the State/Authority for this project.
- J. Pedestrian and Bicycle Facilities. The Engineer shall coordinate with the State/Authority to incorporate pedestrian and bicycle facilities as required. All pedestrian facilities must be designed in accordance with the latest Americans with Disabilities Act Accessibility Guidelines (ADAAG), the Texas Accessibility Standards (TAS), and the AASHTO Guide for the Development of Bicycle Facilities".
- K. Driveway Details. The Engineer shall design all driveways in accordance TxDOT's, "Regulations for Access Driveways to State Highways", any approved latest version of the "Access Management Manual", and the Pharr District Standard Driveway Details. The Engineer shall notify the State/Authority early in the design process when a construction license agreement is needed to construct a portion of the driveway outside of the State's Right of Way. The Engineer shall design the intersection by preventing the bottom of the vehicles to be wedged when accessing onto an adjacent property.
- L. Miscellaneous. The Engineer shall design all longitudinal barriers (railing and guardrail), raised median, fencing, bus bays, parking areas, mailboxes, and shoulder texturing in accordance to the criteria set forth in the roadway design manual and

standards. Miscellaneous Details Sheet(s) may be developed to illustrate any necessary additional construction details not covered by the Standards. Standards that have not been approved for use in the Pharr District shall be signed, sealed, and dated by a Registered Professional Engineer in Texas for use as details. Approval shall be requested at the early stage of the plan preparation from the **State/Authority** regarding the use of these details. In addition, as part of the approval process, these details shall be accompanied by the appropriate general notes, special specifications, special provisions, and method of payment.

## **DRAINAGE DESIGN** (Function Code 161)

- **A. Drainage Report.** The **Engineer** shall design all of the project drainage elements and coordinate all drainage design.
  - 1. The **Engineer** will prepare a comprehensive drainage study and two reports for the project. The report for roadway elements shall be divided into two phases. The first phase will include the following items:
    - Obtain existing HEC-2 models from applicable drainage authorities to the
      extent possible, for use in analysis and determination the existing 2, 5, 10, 25,
      50, 100 and 500 year (if available), water surface elevations at bayous, creeks,
      and ditch crossings along the project. This data will be utilized in the
      development of design roadway profiles.
    - Profile of natural ground along each proposed grade line of the roadway.
    - Profile of tentative proposed grade line of the roadway.
    - Profile of existing roadway.
    - Identify the existing drainage outfalls.
    - Pump Station design if applicable
  - 2. These profiles will be superimposed on a drawing along with the 2, 5, 10, 25, 50, 100 and 500-year (if available) water surface elevations. The profile drawing will provide an overall view of the roadway/existing ground elevations with respect to the various storm design frequencies for the length of the project. This will enable the State/Authority to determine the most feasible proposed roadway profile. These profiles must be submitted to the State/Authority and approved before continuing with the preparation of the comprehensive drainage report. NOTE: THE ENGINEER WILL COORDINATE WITH ALL GOVERNMENT AGENCIES THROUGH THE AUTHORITY.
  - 3. Manhole headlosses are to be computed as per the State/Authority's direction. Also, GEOPAK Drainage with a pressure flow equation generally applicable to pipe running full flow. A hydraulic grade line starting at the outfall channel will be determined for each storm sewer system in order to obtain a design tailwater for each existing system. The design tailwater will be the starting basis for the design of the proposed storm sewer system.

- 4. For drainage areas, the **Engineer** will limit the outfalls into existing storm sewer to existing capacity flows, which will be determined by the **Engineer**. Alternate flow routes, if feasible, will be looked into for relieving storm sewer overload. The amount of the total detention storage to control storm sewer runoff for the design frequency will be determined, as well as a rough estimate of the available on-site volume. The method for handling the required off-site storage volume is not part of this scope.
- 5. Drainage areas and flows for cross culvert drainage systems will be determined as part of the comprehensive drainage report. Sizing of the drainage crossings and hydrologic information once determined will be provided to the **State/Authority**.
- 6. The **Engineer** will prepare a letter report which shall include the preliminary findings of the storm sewer capacities, requirement for line rerouting, preliminary detention storage volumes and initial recommendations on how to mitigate the storm impact on the receiving streams. The report will also include preliminary sizing of the trunkline for the proposed gravity storm sewer within the limits of the project, conceptual and generic discussions of the alternatives considered, a comparative cost associated with each alternative and a recommended solution.
- 7. Recommendations at this point should be generic and conceptual in nature, mainly for discussions with the **State/Authority** and the local government entities.
- 8. An impact analysis is required on the ditches as related the **State/Authority** and FEMA criteria 100-year storm. The **State/Authority** required approach for impact prediction is as follows:
  - Drainage areas for the existing and proposed conditions.
  - The Engineer will identify the existing drainage outfalls.
  - Compute right of way corridor 100-year flood plain volumes for existing and proposed roadway elevations. A decrease in 100-year flood plain volumes is not allowed by the **State/Authority** or other governmental agencies, without adequate offsite mitigation.
  - Compute existing and proposed peak flows by using hydraulics and hydrologic methodology and computer models. The additional lanes should be accounted for by increasing percent development.
  - Storage computations will be based on hydrograph calculations and peak flows obtained in the item above. A mitigation volume for the 100-year storm will be computed.
  - Analyze existing and proposed drainage system and quantify the increase in 100-year peak flows resulting from the roadway improvements.
  - Hand calculations shall be provided which quantify the cut and fill within the 100-year flood plain, if any occur.
  - Prepare conceptual 100-year sheet flow analysis for project utilizing existing and proposed conditions.
  - Obtain current hydrologic and hydraulic computer models from government agencies and review and comment on the models.

- Current models will be updated to existing condition using the available State/Authority aerial photographs and submitted to governmental agencies as the revised existing condition model.
- Analyze proposed roadway and outfall drainage improvements to quantify impacts top revised existing condition model.
- 1. At this point, a separate report (signed, sealed and dated by a professional Engineer) including results will be summarized and presented to the **State/Authority** for discussion. If mitigation is needed, location of storage volume and/or approaches to satisfy government agencies is not a part of this scope. After the **State/Authority** has reviewed and approved the floodplain impact analysis report, the **Engineer** will be compensated 80 percent of the total task shown in the fee proposal for the work order. The remaining 20 percent will be paid after the other agencies involved have approved the report.
- 2. The **Engineer** will also be responsible for the second report which will include the Levee relocation analysis with respect to the USIBWC guidelines. This will be a separate report from the one above to include the results/impacts of the levee relocation. Coordination with USIBWC shall be documented in this report along with obtaining the appropriate license agreement from the agency.
- B. Scour Analysis to be provided at the bridge and bridge class culvert locations.
- Culvert, Pump Station and Storm Drain Design. The Engineer shall develop design details that minimize the interference with the passage of traffic or incur damage to the highway and local property. The Engineer shall provide layouts, drainage area maps, and design of all drainage components. The Engineer shall design all conventional storm drainage and cross drainage in conformance with the latest edition of the State Hydraulic Manual and any specific program guidance provided by the State. Storm drain design shall be performed using WinStorm or GEOPAK Drainage. Cross drainage design shall be performed using THYSYS, THYSYS CULVERT, HEC 2 or HEC RAS. The Engineer shall evaluate the hydraulic gradeline throughout the whole system, within project limits, for the design frequency(ies) and make necessary system adjustments for conformance to program criteria. The Engineer shall coordinate with the State/Authority and designers of adjacent projects to check that all proposed drainage systems accommodate the proposed construction phasing plan.

## The **Engineer** shall perform the following:

- 1. Prepare culvert cross sections.
- 2. Identify areas requiring trench protection, excavation, shoring and de-watering.
- Prepare drainage area maps.
- 4. Prepare plan/profile sheets for storm drain systems and outfall ditches.
- 5. Select standard details from **State/Authority** or District's list of standards for items such as inlets, manholes, junction boxes and end treatment, etc.
- 6. Prepare details for pump station, non-standard inlets, manholes and junction boxes.

- 7. Prepare drainage details for outlet protection, outlet structures and utility accommodation structures.
- 8. Identify pipe strength requirements.
- 9. Prepare drainage facility quantity summaries.
- 10. Identify potential utility conflicts and design around them, wherever possible.
- 11. Take into consideration pedestrian facilities, utility impacts, driveway grades, retaining wall and concrete traffic barrier drainage impacts.
- 12. Identify existing ground elevation profiles at the ROW lines on storm sewer plan and profile sheets.
- 13. If applicable, prepare Hydraulic Data Sheets for Bridge Class Culvert(s).
- D. Storm Water Pollution Prevention Plans (SW3P). The Engineer shall minimize potential impact to receiving waterways. The SW3P shall include text describing the plan, quantities, type, phase and locations of erosion control devices and any required permanent erosion control measures.
- **E. Temporary drainage facilities.** The **Engineer** shall develop plans for all temporary drainage facilities necessary to allow staged construction of the project and to conform with the phasing of adjacent construction projects without significant impact to the hydraulic capacity of the area.
- F. Layout, Structural Design and Detailing of Drainage Features.

The **Engineer** shall perform layout, structural design and detailing for the following:

- 1. Culverts: New culverts; culvert replacement.
- 2. Storm Sewers: New or modified storm sewers; inlets; manholes; trunk lines.
- 3. Subsurface drainage at retaining walls.
- 4. Outfall channels within or outside of the existing ROW
- 5. Bridge deck drainage systems, including internal drainage piping within the bents where required on structures.

The **Engineer** shall use standard details where practical.

### **SIGNING, MARKINGS AND SIGNALIZATION** (Function Code 162)

**A. Signing.** The **Engineer** shall prepare drawings, specifications and details for all signs. The **Engineer** shall coordinate with the **State/Authority** (and other Engineers as required) for overall temporary, interim and final signing strategies and placement of signs outside contract limits. Sign detail sheets shall be prepared for large guide signs showing dimensions, lettering, shields, borders, corner radii, etc., and shall provide a summary of large and small signs. The **Engineer** shall also designate the shields to be attached to guide signs. The proposed signs shall be illustrated and numbered on plan sheets. Sign foundation shall be selected from **State** Standards.

The **Engineer** shall provide the following information on sign/pavement marking layouts:

1. Roadway layout.

- 2. Center line with station numbering.
- 3. ROW lines.
- 4. Designation of arrow used on exit direction signs.
- 5. Culverts and other structures that present a hazard to traffic.
- 6. Location of utilities.
- 7. Existing signs to remain, to be removed, or to be relocated.
- 8. Proposed signs (illustrated and numbered).
- 9. Existing overhead sign bridges to remain, to be revised, removed or relocated.
- 10. Proposed overhead sign bridges, indicating location by plan.
- **B.** Pavement Markings. The Engineer shall detail permanent and temporary pavement markings and channelization devices on plan sheets. The Engineer shall coordinate with the State/Authority (and other Engineers as required) for overall temporary, interim, and final pavement marking strategies. Pavement markings shall be selected from the latest State/Authority standards.

The **Engineer** shall provide the following information on sign/pavement marking layouts:

- 1. Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation.
- 2. Quantities of existing pavement markings to be removed.
- 3. Proposed delineators and object markers.
- 4. The location of interchanges, mainlanes, grade separations, frontage roads and ramps.
- 5. The number of lanes in each section of proposed highway and the location of changes in numbers of lanes.
- 6. ROW limits.
- 7. Direction of traffic flow on all roadways.
- C. Traffic Signals. The Engineer shall identify and prepare Traffic Signal Plans for all traffic signal work needed. (Signals are currently planned for the Intersection of IH 69E and FM 3068.) If necessary, the Engineer shall perform Traffic Signal Warrant Studies to justify both existing and proposed signals, and provide traffic counts, to perform these studies. The Engineer shall confirm the power source for all signals and coordinate with the appropriate utility agency. Traffic Signal Plans shall be signed and sealed by a Texas Registered Professional Engineer. The Engineer shall develop all quantities, general notes, and specifications and incorporate appropriate agency standards required to complete construction.

The following information shall be provided in the Traffic Signal Plans:

- 1. Layout
  - a. Estimate and quantity sheet
    - (1) List of all bid items
    - (2) Bid item quantities
    - (3) Specification item number
    - (4) Paid item description and unit of measure

- b. Basis of estimate sheet (list of materials)
- c. General notes and specification data.
- d. Condition diagram
  - (1) Highway and intersection design features
  - (2) Roadside development
  - (3) Traffic control including illumination
- e. Plan sheet(s)
  - (1) Existing traffic control that will remain (signs and markings)
  - (2) Existing utilities
  - (3) Proposed highway improvements
  - (4) Proposed installation
  - (5) Proposed additional traffic controls
  - (6) Proposed illumination attached to signal poles.
- f. Notes for plan layout
- g. Phase sequence diagram(s)
  - (1) Signal locations
  - (2) Signal indications
  - (3) Phase diagram
  - (4) Signal sequence table
  - (5) Flashing operation (normal and emergency)
  - (6) Preemption operation (when applicable)
  - (7) Contact responsible Agency to obtain interval timing, cycle length and offset
- h. Construction detail sheets(s)
  - (1) Poles (State standard sheets)
  - (2) Detectors
  - (3) Pull Box and conduit layout
  - (4) Controller Foundation standard sheet
- i. Marking details (when applicable)
- j. Aerial or underground interconnect details (when applicable)
- 2. General Requirements
  - a. Contact local utility company
    - (1) Confirm power source
  - b. Prepare governing specifications and special provisions list
  - c. Prepare project estimate
  - d. Conduct traffic counts and prepare Traffic Signal Warrant Studies for all proposed and existing traffic signals.
- 3. Summary of Quantities
  - a. Small signs tabulation
  - b. Large signs tabulation including all guide signs
- 4. Sign Detail Sheets
  - a. All signs except route markers
  - b. Design details for large guide signs

- c. Dimensioning (letters, shields, borders, etc.)
- d. Designation of shields attached to guide signs

## **MISCELLANEOUS** (Function Code 163)

**A. Retaining Walls/Sound Walls.** The **Engineer** shall provide layouts (scale 1″=100′), elevations, quantity estimate, summary of quantities, typical cross sections and structural details of all retaining walls within the project.

If applicable, architectural standard drawings will be provided by the **State/Authority** and shall be incorporated into design details. The specific requirements for each item are as follows:

- 1. Layout Plan
  - a) Designation of reference line
  - b) Beginning and ending retaining wall stations
  - c) Offset from reference line
  - d) Horizontal curve data
  - e) Total length of wall
  - f) Indicate face of wall
  - g) All wall dimensions and alignment relations (alignment data as necessary)
  - h) Soil core hole locations
- 2. Elevation:
  - a) Top of wall elevations
  - b) Existing and finished ground line elevations
  - c) Vertical limits of measurement for payment
  - d) Type, limits and anchorage details of railing (only if Traffic Railing foundation standard is not being used on this project)
  - e) Top and bottom of wall profiles and soil core hole data plotted at correct station & elevation. Groundwater elevations shall be shown.
- 3. Foundation Studies: The **Engineer** shall coordinate with the **State/Authority** to determine the location of soil borings to be drilled along the retaining wall alignments. The core holes shall extend a minimum of 15 feet below the footing elevation or deeper as soil conditions warrant. Spacing of core holes shall not exceed 500 feet. The **Engineer** shall provide a boring layout for the **State/Authority** to review and provide their recommendations.
- 4. The **Engineer** shall incorporate soil core hole data sheets prepared, signed, sealed, and dated by the Engineer. The soil boring sheets shall be in accordance with TxDOT WINCORE software as can be found on the Texas Department of Transportation website.
- 5. General Guidelines for Retaining Walls
  - a) The **Engineer** shall make final design calculation and final detail

- drawings in accordance with standard requirements of the **State/Authority**.
- b) For retaining walls that the total estimated project quantity exceeds 30,000 square feet, preliminary retaining wall layouts shall be submitted to Austin Division for approval.
- B. Traffic Control Plan, Detours and Sequence of Construction. The Engineer shall prepare Traffic Control Plans (TCP) for the project. A detailed TCP shall be developed in accordance with the latest edition of the *Texas Manual on Uniform Traffic Control Devices for Streets and Highways* (Texas MUTCD). The Engineer is to implement the current Barricade and Construction (BC) standards as applicable. The Engineer shall interface and coordinate phases of work, including the TCP, with adjacent Engineers.
  - 1. The **Engineer** shall provide a written narrative of the construction sequencing and work activities per phase and determine the existing and proposed traffic control devices (regulatory signs, warning signs, guide signs, route markers, construction pavement markings, barricades, flag personnel, temporary traffic signals, etc.) to be used to handle traffic during each construction sequence. The **Engineer** shall show proposed traffic control devices at grade intersections during each construction phase (stop signs, flag person, signals, etc.). The **Engineer** shall show temporary roadways, ramps, structures and detours required to maintain lane continuity throughout the construction phasing.
  - 2. Where detours are required, the **Engineer** shall develop typical cross sections, calculate quantities, and show horizontal and vertical alignment (if necessary) information. The **Engineer** shall provide a detailed layout and arrangement of construction signs, construction pavement marking, traffic control devices (including temporary signals and signal heads).
  - 3. The **Engineer** shall be responsible to coordinate with the **State/Authority** in scheduling a Traffic Control Workshop and submittal of the TCP for Safety Review Committee (SRC) approval. The **Engineer** shall assist the **State/Authority** in coordinating mitigation of impacts to adjacent schools, emergency vehicles, pedestrians, bicyclists and neighborhoods.
  - 4. Continuous, safe access to all properties during all phases of construction is mandatory. The **Engineer** shall develop TCP to preserve existing curb cuts. Approval from the **State/Authority** is required for any elimination of existing access capacity.
  - 5. The **Engineer** shall design temporary drainage to replace existing drainage disturbed by construction activities or to drain detour pavement. The **Engineer** shall show horizontal and vertical location of culverts and required cross sectional area of culverts.
- C. Illumination. The Engineer shall provide safety lighting at all intersections and interchanges, as well as at all other locations identified by the State/Authority. The Engineer shall prepare exhibits as required to obtain agreements with adjacent municipalities. The Engineer shall tabulate all quantities and provide summary sheets.

- **D. Estimate.** The **Engineer** shall independently develop and report quantities in standard **State/Authority** bid format at the 60%, 90% and Final PS&E submittals. The **Engineer** shall identify and report quantity variances by means of a quantity variance report, to be provided with each submittal. The **Engineer** shall be prepared the estimate at the 60%, 90%, 95% and Final PS&E submittals.
- **E. Specifications.** The **Engineer** shall develop the list of standard specifications with the appropriate reference items the estimate. The **Engineer** shall also identify the need for any special specifications, and special provisions. The **Engineer** shall prepare General Notes from the Pharr District's *Master List of General Notes*, Special Specifications and Special Provisions for inclusion in the plans and bidding documents. The **Engineer** shall provide General Notes, Special Specifications and Special Provisions in rich text format.
- F. Construction Schedule. The Engineer shall prepare a construction contract time schedule using the latest version of Primavera or SureTrak software in accordance with the State's Administrative Circular No. 17-93. The schedule shall indicate tasks, subtasks, critical dates, milestones, deliverables and review requirements in a format which depicts the interdependence of the various items, and adjacent construction packages. The Engineer shall aid the State/Authority in interpreting the schedule.
- **G. Bidding services.** The **Enginee**r will provide the contract proposal/upfront bidding documents.

## **PROJECT MANAGEMENT** (Function Code 164)

- A. The **Engineer** will continue to coordinate with **AUTHORITY** staff, local municipal agencies and utility companies.
- B. The **Engineer** will develop geometric and design criteria to establish uniform practices to be followed. Assemble existing TxDOT standard plans and prepare supplemental details for use as standard or guide plans for pavement, drainage, structures, traffic interchange facilities, traffic control, and other necessary appurtenances, all subject to the approval of the Authority.
- C. The **Engineer** will provide the **Authority** with monthly reports of progress and a summary of key decisions that have been made or need to be made.
- D. The **Engineer** will recommend approved designs, plans, and specifications and deliver to the **Authority** for bid advertisement. Assist the **Authority** in the process of bidding and award of construction contracts. Prepare final estimates of construction costs prior to the opening of construction bids.
- E. Professional engineers' seals shall conform to the guidelines and regulations adopted by the Texas Board of Professional Engineers.

### **BRIDGE DESIGN** (Function Code 170)

All bridge structures shall be designed for **LRFD** guidelines.

A. Bridge Layout. The Engineer shall Prepare Bridge Layout plans and elevations for all bridge types listed below in accordance with the latest edition of the State's Bridge Design Manual, Bridge Project Development Manual and Bridge Detailing Manual. Submit to the State/Authority for approval before proceeding to structural detail design. Coordinate with the State/Authority to determine the location of soil borings to be drilled by the Engineer.

The Bridge layouts in Plan View shall contain the following information:

- 1. Horizontal curve information or bearing of centerline
- 2. Including horizontal, vertical and template information of all roadways or railroads crossed
- 3. Bearing of centerline or reference line
- 4. Skew angle(s)
- 5. Slope for header banks and approach fills
- 6. Control stations at beginning and ending of bridge (with deck elevation)
- 7. Approach pavement and crown width
- 8. Bridge roadway width and curbs, face of rail, shoulders or sidewalks
- 9. Approach slab and curb returns
- 10. Limits and type of riprap
- 11. Proposed features under structure
- 12. Location of profile grade line
- 13. North Arrow
- 14. Typical bridge roadway section including preliminary proposed beam types and spacings.
- 15. Cross slope and superelevation data
- 16. Minimum horizontal and vertical clearance
- 17. Location of soil core holes (station and offset)
- 18. Bent stations and bearings
- 19. Retaining wall locations
- 20. Traffic flow directional arrows
- 21. Railing types shown
- 22. Joint types and seal size, if used
- 23. Beam line numbers consistent with span details
- 24. Critical horizontal clearances (location of railroad tracks, nearby structures and utilities)

Bridge Layouts in Elevation View should contain the following:

- 1. Type of foundation
- 2. Finished grade elevations at beginning and end of bridge
- 3. Overall length of structure
- 4. Length, type of spans and units
- 5. Type of railing
- 6. Minimum calculated vertical clearance(s)
- 7. Existing and proposed ground lines clearly marked
- 8. Grid elevations and stations

- 9. Bent numbers encircled
- 10. Standard Title
- 11. Profile grade data
- 12. Type of riprap
- 13. Soil Core Hole information with penetrometer test data
- 14. Fixed/expansion condition of all bents
- 15. Column "H" heights
- 16. Number, size and length of foundations

Additional layout requirements for waterway structures and bridge classification culverts:

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

The substructure for simple span prestressed concrete U-beam girders shall be inverted T beam caps on rectangular columns. If necessary, the **State/Authority** will provide standard architectural details. The **Engineer** shall incorporate these drawings and make appropriate reference to these details.

The **Engineer** shall develop bridge layouts from the schematic provided by the **State/Authority** and submit an 80% complete layout to the **State/Authority** at the 30% submittal to provide ample review and design time.

- **B. Final Design Calculations and Details.** The **Engineer** shall make final design calculations and final detail drawings, per structure, in accordance with standard requirements of the **State/Authority**. All bridge design shall be in conformance with the latest edition of the **State**'s *Bridge Design Manual, Bridge Project Development Manual, Bridge Detailing Manual,* and AASHTO *Standard Specifications for Highway Bridges.* The **Engineer**'s designer and checker shall both check all calculations and initial each page. The **Engineer** shall submit for review all structural design calculations and quantity calculations at the 90% submittal.
- C. The **Engineer** shall perform a global stability analysis on fill areas on bridge approaches and other areas where the height of fill is determined to be greater than 15 feet. No geotechnical investigations are to be initiated until the **State/Authority** has given the **Engineer** written approval. The **Engineer** shall prepare an engineering report showing all material testing locations, with a summary of all geotechnical investigations, project background, and a summary of recommendations.
- D. Bridges/Overpasses/Underpasses/Ramp Structures.

The **Engineer** shall prepare *bridge layouts, typical sections, structural details* (with appropriate scale) and estimated quantities for structures, as listed below:

Description	Approx Length	Approx. Width	Number of spans	Comments
Elevated Canal Crossing	100	80	1	New Bridge facilitated at the Tie in Realignment
SH 4 Overpass	272	80	3	80-112-80 Span Configuration

- **E. Bridge Classification Culvert.** The **Engineer** shall prepare layouts, typical sections, structural details (with appropriate scale) and estimated quantities.
- **F. Staged Construction:** The **Engineer** shall review and evaluate the need for phased construction for all structures in the project limits and advise the **State/Authority** of their recommendations. The **Engineer** shall review the as-builts and perform any necessary analysis to determine the structural integrity of any part of the structure that would remain open to traffic.

## **CONSTRUCTION PHASE SERVICES** (Function Code 309)

The **Engineer** shall provide Construction Phase Services. These services shall include, but are not limited to the following:

#### **Pre- Construction Award**

The **Engineer** shall assist the **Authority** with the following:

- (1) Pre-bid RFI's
- (2) Pre-bid Conference
- (3) Bid Opening
- (4) Bid Tabulation & Review

### **Post - Construction Award**

- (1) Upon Award of Contract coordinate and attend Pre-Construction Meeting.
- (2) Answer Construction RFI's.
- (3) **Shop Drawings.** The Engineer shall review and check all shop or working drawings furnished by the Contractor that are related to the Project. Below is the listing of the proposed drawings to be reviewed.

Elevated Canal Bridge

- Abutments
- Girders
- Footings
- Rail
- Slab and Framing

Falsework

### SH 4 Overpass Bridge

- Abutments
- Girders
- Footings
- Rail
- Slab and Framing
- Falsework

#### Culverts

- Pre-Cast Culverts
- Pre-Cast Inlets

## Large Guide Signs

- Foundations
- Frames
- (4) Change Orders. When applicable, the Engineer will prepare the engineering data, including plan sheet drawings, specifications, and estimates, for the preparation of construction contract change orders, which may be required due to actual field conditions encountered or new requirements directed by the Owner. This work will be handled through a supplemental work order.

## **DELIVERABLES**

- **I. Hydraulic Deliverables.** The **Engineer** shall submit the two Hydraulic Reports signed and sealed by a Registered Professional Engineer in the State of Texas.
- **II. Survey Deliverables.** The **Engineer** shall submit, after completion of PS&E, all original field books containing all survey information requested for this work authorization. The field book shall contain all information gathered in the field. The survey information provided shall be to the surveyor's best knowledge, accurate, and complete.

Electronic files (\*.txt) containing survey information with proper identification and with the following data format x, y, and z NAD-83 coordinate system. The x-coordinate corresponding to the east bearing, the y-coordinate corresponding to the north bearing, and the z-coordinate corresponding to the vertical elevation.

Electronic 2d and 3d Microstation files (\*.dgn) containing survey information with proper identification and with the following data format x, y, and z NAD-83 coordinate system. The Survey deliverables shall include the digital terrain model (DTM), aerial maps, and Subsurface Utility Engineering (SUE).

**III.** Plan Deliverables including 3D Corridor model. The Engineer shall forward to the State/Authority, upon completion of the work authorization, four (4) sets of Memory Sticks with all the files containing the information and layouts used to prepare the PS&E.

Each CD shall be labeled and include the following:

- CSJ
- County
- Highway
- Date of the CD Burn
- INTERIM (in 1" letters) Note: As-built shall specified FINAL
- Volume sequence (ie. Disk 1 of 3)

Each CD created shall have the standard directory structure, as follows:

Directory:\Control-Section - Job Number Types of Data

Documents Form 1002, Design Summary Report (DSR), Design

Exceptions/ Variances, Traffic Control Safety Review Approval Form, Hydraulic Report, Geotechnical Report, Summaries, General Project Correspondence,

and Excel files.

Schematic All .DGN files – Mapping, Sheet

Files, Master Design Files, dat files .gpk files, .pri files, design cross section

files, etc.

Environmental Environmental documentation can include but not

limited to Categorical Exclusion (CE), Environmental Assessment (EA),

Environmental Impact Statement (EIS), noise analysis and Water Pollution Abatement Plans.

Utilities Existing utility information as provided by the

affected utility company including

correspondence.

ROW Maps and Parcel sketches as furnished

By surveyor

Design All .DGN files – Mapping, Sheet

Files, Master Design Files, dat files .gpk files, .prj files, design cross section

files, etc.

Hydraulics Drainage Input & Output Culvert

Analysis, Bridge Analysis

Electrical input and output files, correspondence,

everything except .dgn files

Signing Signing input and output files, correspondence,

everything except .dgn files

Standards

All Standard Sheets used for the Job

Construction

Field change documentation except for .dgn files.

A "readme" file should be created and placed under the "documents" subdirectory. The readme file should be composed of the minimum directory structure detailed above and modified to list particular files that are contained under the various subdirectories. This information will guide the end user to the location of particular files. In addition to the file information, the readme file should contain the general project information such as the CSJ, Limits of Construction and Type of Improvements.

All CADDSEALS placed on finished documents are to remain on that document. Do Not remove CADDSEALS.

The file naming convention will be as shown below. Not all plan sets will have all of the listed sheets.

Sheet File Type Naming Convention

Title Sheet \*TTL\*.DGN
Supplemental Index \*II

Supplemental Index \*INDX\*.DGN

General Notes & Spec. Data \*GNOT\*.DGN

Estimate & Quantities \*E&Q\*.DGN

Consolidated Summaries \*SUM\*.DGN

Project Layout \*PRJLO\*.DGN

Typical Sections \*TYP\*.DGN

Traffic Control Plans \*TCP\*.DGN

Horizontal Alignment Data \*HAD\*.DGN

Benchmark Data \*BM\*.DGN

Table of Cross Slopes \*CS\*.DGN

Plan & Profile Sheets \*PP\*.DGN

Landscape Sheets \*LAND\*.DGN

Irrigation Sheets \*IRRI\*.DGN

Detail Sheets (any) \*DET\*.DGN

Drainage Area Maps \*DA\*.DGN

Hydraulic Data Sheets \*HD\*.DGN

Storm Sewer Plan & Profiles \*SS\*.DGN

Culvert Cross Sections \*CUL\*.DGN

Water Quality Facilities \*WQ\*.DGN

Retaining Wall Sheets \*RET\*.DGN

Bridge Layouts \*BR\*.DGN

Bridge Quantities/Bearing Seat Info \*BRQUAN\*.DGN

SW3P Info Sheet \*SW3P\*.DGN

Erosion Control (Temp & Perm) \*EC\*.DGN

Signing Layouts \*SIGN\*.DGN

Pavement Markers (incl. Delineation) \*PMLO\*.DGN

Signalization Sheets \*SIG\*.DGN

(includes electrical service sheets)
Illumination Sheets \*ILLI\*.DGN
Roadway Cross Sections \*XS.DGN
Master Design File \*MDF.DGN
Alignment File \*ALN\*.DGN

Where an \* (wildcard) appears in the filename, the user is free to describe the file as they see fit as long as the required letters appear in the filename somewhere.

The Engineer shall submit a CADD file structure listing in spreadsheet format. This CADD file structure shall consist of the following fields of information for each design file created to produce the final plan sheets for PS&E:

Active Design File Name (xxx.dgn)
Levels ON (1-63)
Plot Scale (1" = 100')
File date (Nov. 30, 2004)
File size (xxx bytes or KB)
Sheet Number (202)
Sheet Description (Typical Sections, Sheet 3 of 4)

Reference file names Logical Name of Reference files (xxxdrn.dgn) Levels ON (1-2, 5-17, 36-45, 50-63)

In addition, the Engineer shall include on the staple side of the sheet border (left side) by the use of a pen table the reference file information listed above for each reference file attached; i.e. Reference file name (xx.dgn), Levels ON, when this particular file is attached as a reference to the Active design file.

On the lower right-hand side, next to the title block, in a 90-degree orientation to the bottom of the sheet, also by the use of a pen table, the file name of the design file and date shall be shown when printed.

**PS&E Deliverables.** The **Engineer** shall deliver to the **Authority** an electronic copy of the 30%, 60%, and 90% submittals. For the final 100% submittal, the Engineer shall submit one electronically sealed plan portfolio with all backup data. The **Engineer** shall develop Exhibit C, Work Schedule for all project submissions.

#### 30% Submittal -

- a. Approved (signed form) Design Summary Report
- b. Title Sheet
- c. Typical Sections (existing and proposed)
- d. Traffic Control Plan
- e. Utility Layout (conflicts identified)
- f. Plan & Profile (Roadway and Levee)
  - Vertical Alignment (existing and proposed)
  - 2. Horizontal Alignment (existing and proposed)

- g. Bridge Layouts (including bridge class structures)
- h. Miscellaneous Details (including Border Fence Relocation)
- i. Corresponding Quantity Summary Sheets
- j. Corresponding Standard Detail Sheets for all Items of Work in this submittal
- k. Preliminary Estimate
- I. Design Exceptions/Waivers required
- m. Newly created Special Provisions/Specifications to be used (Form 1814)
- n. R.O.W. (issues identified)
- o. Electronic Copy of Cross Sections

#### 60% Submittal -

- a. Index Sheet
- b. Hydrologic Computation Sheets
- c. Hydraulic Data Sheets
- d. Drainage Area Maps
- e. Drainage Plan & Profile
- f. Pump Station Layouts/Details
- g. Drainage Structure Details
- h. Storm Sewer Details
- i. Storm Water Pollution Prevention Plan
- j. Bridge Details
- k. Retaining Walls Sound Walls
- I. Miscellaneous Details
- m. Corresponding Quantity Summary Sheets
- n. Corresponding Standard Detail Sheets for all Items of Work in this submittal
- o. Updated Estimate
- p. Utility Adjustment/Relocation Details
- q. R.O.W. Acquisition Detail
- r. Electronic Copy of Cross Sections

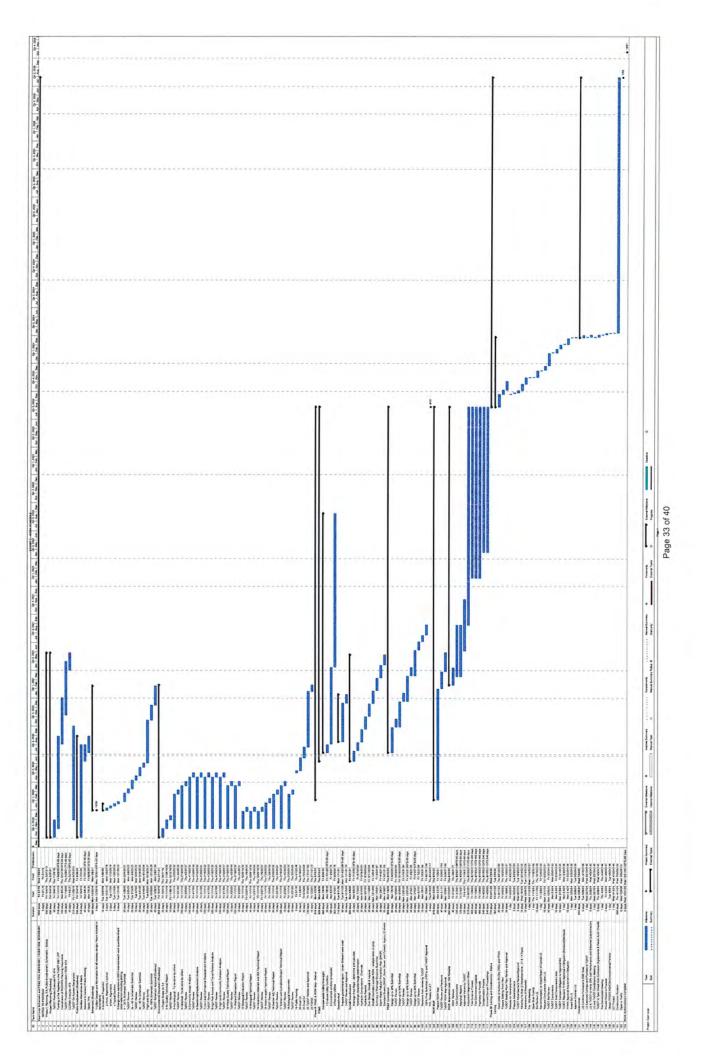
#### III. 90% Submittal -

- a. Final Index of Sheets
- b. Pavement Marking Layout/Details
- c. Signalization (existing and proposed)
- d. Illumination
- e. Traffic Management Items
- f. Miscellaneous Details
- g. Corresponding Quantity Summary Sheets
- h. Corresponding Standard Detail Sheets for all Items of Work in this submittal
- i. Final Estimate
- j. General Notes
- k. Certifications
- I. Form 1002
- m. Cross Sections

#### IV. 100% Submittal -

- a. PS&E Package 100% complete.
- g. Six Months prior to letting.

- c. Construction Estimate in Estimator® format and Excel format
- d. Form 1002
- e. General Notes
- f. Special Specifications and Special Provisions with a completed Form 1814 in TxDOT format
  - (2) each signed and sealed Specification Certifications
- g. Utility, ROW Encroachment, ROW Acquisition, ROW Relocation Certification) originals of each signed and sealed.
- i. Special Specifications, Special Provisions and applicable reference items to all items involved in the PS&E in Excel spreadsheet format
- j. Construction CPM Schedule (Signed and Sealed)
- k. Cross Sections



6/26/2020

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	GEC Contract C An and C C C C C C C C C C C C C C C C C C C	ЕХНІВІТ D	EXHIBIT D FEE ESTIMATE	AATE													4	DA.	06/26/20
	TO DESIGNATION OF THE PARTY OF	***************************************		$\vdash$	$\vdash$		Ž	H			II 1	l F		l				ESTIMATED	
	DESCRIPTION from Attachment B	HRM	SERVICE	Principal Ou Mai	Manager Ma	Project Ranager Ma	Manager Scientist	ntist RPLS	Structural	al Engineer	(I,II)	3-Man Survey Crew	Engineer In Training	CADD	CADD Operator	Secretary	HRS	FEE	TOTALS
	SIGNING, MARKINGS AND SIGNALIZATION	L																	
	Signing and Markings Layouts		BASIC	1		60 a				4	0			80			136	\$22,599.20	
	Summary of Large Signs Tabulation	2000	BASIC		l	160		-			36			120			172	\$14,999.68	
	Sign Detail Sheets & Standards		BASIC			80					4			09			7.2	\$9,999.92	
	Signing and Markings Layouts (Segment 1) (See L&G Cost Proposal)		BASIC														0	\$150 116.04	
. 1	Signalization (See ETSI Cost Proposal)	ETSI	BASIC														0	\$171,550.78	
	Traffic Counts and Signal Warrants (See ETSI Cost Proposal)	ETSI	BASIC											Ī			0	\$69.553.32	
	Sub Total (162 - SIGNING, MARKINGS AND SIGNALIZATION)			0	0	48	0	0	0	96 0	0	0	0	340	0	0	484		\$465,118.22
	MISCELLANEOUS ROADWAY																		
. 1	Sound Walls	S&B	BASIC																
- 1	Structural Details	SeB	BASIC	1	+	4 0	1	1		40			80	80			204	\$26,906,40	
1	Foundation Studies	S&B	SPECIAL	1	t	2 0	1	+	-	40			32	32			99	\$9,032.56	
1 1	Stability Analysis	S&B	BASIC			01				90			16	8			98	\$17,539.60	
- 1	Estimate Summary of Ocantities	S S S	BASIC		+	0 0	1	+	+	80 0			24	21 0			36	\$4,781.28	
	Typical X-section.	SaB	BASIC	-		2 2				0 8			16	24			87 02	\$4,101,28	
. 1	Traffic Control Plan	S&B	BASIC		H	16			1		40		120	120	H		296	\$37,399,20	
	Coordinate with & Prepare TCP layouts for TxDOT review		BASIC		_	80					80		60				24	S4 679 84	
	Illumination Layouts	Н	BASIC		H	2				4	0		80		120		242	\$28,349.20	
1	Compute and Tabulate Cuantities for Hevised Limits Special Utility Details (Water, Sanitary Sewer, etc.)	S & B	BASIC	+	+	2 6	1	+	+	9 9	0 0		80	40	80	1	202	\$24,349.20	
	Exhibits for Útility Agreements	S&B	SPECIAL		H	2				4	0						42	\$9,549.20	
- 1	Estimates	SeB	BASIC	+	+	20	1	+	+	20	4. 4		09				98	\$11,049.52	
	General Notes	S&B	BASIC		H	2 2				1	9		32		T		20 09	\$9,349.52	
	Prepare Construction Time Schedule Project Submittale 30%, 60%, 05%, and 100%	S&B	BASIC		+	2 9				** 0	40		120				162	\$19,749.20	
1	Assembely of Final Documents ( Graphic Files of Plan		2000	-	-	2	-	-	-		2		00				9/1	\$29,198.40	
11	Sheets and Geopak Files ) ADA/TDLR Coordination	SSS	SPECIAL	+	+	2 +	1	1	-		16		40	40	1	1	88	\$12,149.68	
ιI	ADA Non-Standard Details	S&B	SPECIAL			-					4		4	16			25	\$3,354.92	
- 1	I DLR Cost Justification/Comparisons Misc. Items (Segment 1) (See L&G Cost Proposal)	2 & B	SPECIAL BASIC		+	-					9		16				33	\$5,234,68	
- 1	Sub Total (163 - MISCELLANEOUS ROADWAY)			0	0	11	0	0	0 180	10 432	0	0	884	380	200	0	2,153		\$453,182,24
	BRIDGE DESIGN	6		1	+	+		-	-										
- 1	New Structure(s) Structural Details Preparation of Bridge Layouts (Two Bridges)	2000	BASIC	+	+	4 α	1	1		80 60	000			120	1	Ī	264	\$48,011.60	
1.1	Bridge Class Culv Layouts	S&B	BASIC	í		4				12 4	0			80			136	\$22,241,12	
- 1	Bridge Class Culv Details	S&B	BASIC	1	+	OI C	1		-	16				80			86	\$13,672.56	
1	Bridge Class Culv Specifications	SeB	BASIC	t		2 2	1	-	-	9 8				16	1		26	\$9,072.56	
ı I	Bridge Foundation Design	S&B	BASIC			80				80 120	0			80			288	\$58,010.40	
- 1	Bridge Total Quantities and Cost Estimates (each bridge)	S&B	BASIC	+	+	+		-		16 1	16			24			56	\$10,282.24	
- 1	Bridge Special Provisions and Specifications (each bridge)	S&B	BASIC							80				80			16	\$2,881.28	
- 1	Bearing seat elevations for each bearn or girder.	1	BASIC	1	+	1	1				24			09			108	\$18,183,36	
	Sub Total (170 - BRIDGE DESIGN)			•	•		•												

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9,50		TOTALS							\$237,884.16																		\$50.925.20		\$3,398,169.74									\$26,417,58			CO 403 ACA CO
02/92/90	ESTIMATED	FEE		\$57,200.00	\$28,644.48	\$3,849.92	\$79,996.80	\$26.592.96			07 004 40	\$2,129.92	\$1,999.92	\$12,919.20	\$2,469.92	\$0.00	\$955.00	\$955.00	80 101 08	\$2,301.28	\$1,320.64	\$2,301.28		\$2,301.28	\$1,320.64	\$2,301,28	000						\$5,600.00	\$834.60	\$1,872.50	\$10,800.00	\$7,286.40		7	3,228,158.82 189,142.10	
		TOTAL		208	160	38	320		1,030		2	10	80 0	08	14	0 6	6	ø	101	10	9 0	10		101	9	10	285	+	10,738				1			t	H			00	
		Secretary			32	16	200		248			2	¢,	7	2				-	-	-	-			-		56		314	17.23				0,535	0.535	120.000					
		CADD S							0		0+	71									1						12		332	100.00		1				g w taxes \$ e (\$/mi.)= \$		+			
		Senior							0					ı		İ					1	İ		1			0		3,216	30.49				Milage Rate (\$/ml.)=	Milage Rat	Milage Rate (\$	Ī				
		Engineer In Training			32	16	Ī		48		760	43	70	42	4	80	80	80	Ī		1	Ī					92		2,764	85.00											
		3-Man Survey Crew							0																		0		400	188.59											
		Engineer (I,II)							0																		0			169.73											
		Engineer (V)			Ĭ	4			36		**	4	4	2	4												99			224.98											
		Engineer Structural			35				0 32										80	80	4 00	80		00 00	4	00 00	0 72			245,16											
		RPLS																												214.99	ш										
	MAN-HOURS	Scientist							0																		0			5 29.17				13	10	20 00					
		Env																	-											49.05				Trips =	Trips =	Persons =			į		
		Project Manager		104	35				346		,	4	4 4		4	-									-		33			3 275.00 8 72.91						80					
ш	Ц	Manager				00	350		0 320										-		1						0			3 66.28				Mileage per trip -		Nights= sage per trip =					
EXHIBIT D FEE ESTIMATE		E Principal									4 -	1 7	7		7	1 1	7	7 -	1 7	-	4 -	1 7	7	, ,	7	7 7		-		79.53			7			L Mile					1
D - FEE		SERVICE		+	Н	+	BASIC				1	Ħ		1	П	SPECIAL	П	T		Ħ	SPECIAL	t		SPECIAL	П	SPECIAL		-	ER			_	SPECIAL	SPECIAL	SPECIA	SPECIAL			-		_
ЕХНІВІТ		FIRM		SeB	S&B	Sen	SeB	L&G			S&B	Sea	SeB	See	SeB	Sen	S&B	S&B	SeB	S&B	2 8 8 8	S&B	SeB	SeB	SeB	8 8 8			MULTIPLIER	3.7717		10	SeB	S&B	SeB	S & B	L&G				
East Loop PS&E CCRIAN CCRIAN GEC Contract X C Canaron C Lanaron C Lanaron		DESCRIPTION from Attachment B	GENERAL COORDINATION	Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeling (Prog. Rpts)	Proj. Meetings (DCC, 30% 60%, 100% Submittals)	Prepare Proj. Meetings Notes	Project Secretary /CLERICAL (2 hrs/week)	General Coordiantion (Segment 1) See L&G's Cost Proposal	Sub Total (164 - GENERAL COORDINATION)	CONSTRUCTION PHASE SERVICES	CONSTUCTION BIDDING BEFS/Addending	Pre Bid Conference	Bid Opening Rid Tabulation Becommandation of Award	DURING CONSTUCTION	Attend Preconstruction Meeting	Sign Bridges	Concrete Mix Design	Hot Mix Design (Bond Breaker)	Prestressed Concrete   Beams Design	Prestressed Concrete I Beams Detail	Bearing Pads Prestressed Concrete Lavour	Bridge Railing	SH 4 Overpass	Prestressed Concrete I Beams Design	Bearing Pads	Prestressed Concrete Layout Bridge Bailing	Sub Total (350 - CONSTRUCTION PHASE SERVICES)	S PATOT GOOD	Total Hours	CONTRACT RATES: (\$MAN-HOUR) BASE RATES: (\$MAN-HOUR)		NON LABOR Outside reproduction (16 Sets @ 1000 Sheet Avg @ \$0.35	11X17 B/W) Transl Mileage Diego Blee Development (12 Mine and	Precon Mtg)	Travel - Mileage During Plan Development (Survey)	Survey Crew Looging including Laxes Travel to District Area Office- Mileage 5 Meetings	L&G Non Labor Items (See L&G Cost Proposal)	Sub Total (F.C. 160)	MATCH GOOD INCH	BASIC SERVICE TOTAL SPECIAL SERVICE TOTAL	PROJECT TOTAL
PROJECT: CLIENT: CONTRACT: CSJ: COUNTY: S & B JOB NO.:		CODE	164							350																						160									
ő		CODE										Ī				T		T	T		T			Ī		T	П	T			1		Ī			Ī	T	T			

# EXHIBIT B "FEE SCHEDULE" - WARRANT STUDIES' Along East Loop: From IH 69E to SH 4

Ergonomic Transportation Solutions, Inc.

			A	CAUCHNEN		
K	WARRANT STUDIES	Project	Traffic Engineer III	CADD	Administrative	Total
					710000	
TASK						
~	Collect Data and Conduct Field Investigations	12	09	34		106
2	Assess Collected Data	4	20			24
3	Accident Analysis	80	44	8		09
4	Collision Diagram	2	4	18		24
2	Intersection Exhibits	4	12	24		40
9	Signal Warrant Analysis	26	120	26		172
7	Photo Album		2	14	8	24
8	Recommendations	12	12			24
6	Traffic Signal Warrant Study Report	80	36	16	12	72
	Subtotal	76	310	140	20	546

Total Sheets/Labor Hours	r Hours	92	310	140		20	546
Contract Rates		\$ 221.07	\$ 127.12	\$ 71.85	es	60.79	2
Total Costs		\$ 16,801.32	\$ 39,407.20	\$ 10,059.00	69	1,215.80 \$	67,483.32
EXPENSES							
Lodging	(2 people)(2 nights)(\$96/night)				69	384.00	
Meals	(2 people)(3 days)(\$36/day)				69	216.00	
Rental Car	(3 days)(\$60/day)				6	180.00	
Rental Car Fuel	(3 days)(\$30/day)				· ·	00 06	

(2 peor	(2 people)(2 nights)(\$96/night)	4	384 00	
(2 peop	(2 people)(3 days)(\$36/day)	↔ ↔	216.00	
(3 days	(3 days)(\$60/day)	· •	180.00	
Rental Car Fuel (3 days	(3 days)(\$30/day)	4	90.00	
(2 peop	(2 people)(\$600/ea)(1 trip)	₩.	1,200.00	
		49		
Total Expenses		49	2,070.00	

**ETSI Total Cost** 

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69,553.32

# EXHIBIT C "FEE SCHEDULE" - FLASHING BEACON & TRAFFIC SIGNAL DESIGN

Along East Loop: From IH 69E to SH 4

Ergonomic Transportation Solutions, Inc.

					MANHOURS	SS.		
FLASHING BE,	FLASHING BEACON AND TRAFFIC SIGNAL DESIGN	No. of sheets (estimated)	Project Manager	Senior Traffic Engineer	Traffic Engineer III	CADD Operator Administrative Assistant	Administrative Assistant	Total
TASK								
-	General Notes	n/a	2	4	12		9	24
2	Basis of Estimate	1	4	9	16	10		36
3	Condition Diagram	7	14	22	09	44		140
4	Proposed Signal Plan Layout	7	58	98	262	176		582
5	Signal Phasing/Timing	n/a	4	9	16	10		36
9	Electrical Schedules	7	18	26	78	52		174
7	IntSigns, Pav.Markings, Curb Ramps	n/a	4	9	16	10		36
80	Standard Sheets List	14	4	9	16	10		36
6	Specifications and Cost Estimate	n/a	8	12	36	26		82
10	Coordination and Meetings	n/a	40					40
11	TEMPORARY TRAFFIC SIGNALS	4	14	22	09	44		140
	Subtotal	40	170	196	572	382	9	1326
	Subtotal	40	170	196	572	382		9

2	0/1	130	572		382	9		1326
Contract Rates \$	\$ 221.07	\$ 165.80	\$ 127.12	8	71.85	\$ 60.	60.79	
Total Labor Costs \$ 37	\$ 37,581.90	\$ 32,496.80 \$	\$ 72,712.64	S	27,446.70	\$ 364.	364.74 \$	170,602.78

EXPENSES

(1 person)(1 night)(\$96/night) (1 person)(2 days)(\$36/day) (2 days)(\$60/day) (2 days)(\$30/day) (1 person)(\$600/ea)(1 trip) Rental Car Lodging Meals

Rental Car Fuel

Airfare

Total Expenses

**ETSI Total Cost** 

\$ 171,550.78

948.00

96.00 72.00 120.00 60.00 600.00

99999

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L&G Consulting Engineers, Inc.

East Loop (Limits: 169E to FM3068 - Approx., 5.4 Miles) S&B Infrastructure (via CCRMA) GEC Contract

PROJECT: CLIENT: CONTRACT: CSJ: COUNTY:

Cameron

EXHIBIT D - L&G ENGINEERING FEE ESTIMATE

TOTALS			\$8,864.54									\$599,575.82												\$228,185,12					\$150,116.04													\$151.847.08
FEE		\$8,864.54			818 287 68	\$27.163.90	\$94,056.30	\$226,849.00	\$98,126,80	\$46,527.46	\$42,228.90			\$24,778.60	\$84,224.10	\$47,309.20	\$74,453.00	\$20,474.80	\$60,260.80	\$65,400,32	\$67,240.10	\$49,954.04	03:300			\$45,707.24	\$41,239.90	\$21,056.30			\$47,079,92	\$47,079.92	\$11,668.22	\$2,629.08	\$3,978.52	\$12,214,60	\$9,166.80	\$16,484.10	\$19,427.00	\$10,237.16	\$6,747.08	
TOTAL		06	96		168	290	1,110	2,100	840	476	450	5,852		160	900	296	720	260	200	532	510	454	2	4,002		414	320	200	1,364		442	442	110	16	100	100	48	154	100	80	48	1 664
Admin / Clerical		9	9					50	70	20	30	06					20	20		20		20	3	00					0									40		12	20	420
Utilities Coord.			0				120	100	90			300								360			200	000					0		09	09			80	80						000
CADD		18	18			120	300	300		120		840												1					0		70	20										140
Senior CADD Operator		32	32		120	120	480	480	170	120	160	1,810		00.7	0/1		240	120	200		170	160	000	2001		180	140	80	260		100	100	40					40		32		312
Engineer in Training		16	16				120	480	140	06	120	1,130		0	80		240	120				120	099	8		100	120	09	360		9	09	32					32				184
Engineer (III)			0				40	340	040	09		160												,					0		80	80										160
Engineer (IV)			0								09	09	Ì	100	170	160	120		220		170	80	1 100	2011		20	040	30	180				24	œ ç	7		8					42
Engineer (V)		12	12		32	30	30	210	30	48	30	510		99	120	120	100		80	120	170	40	090	8		40	30	20	130		09	09	12	9 0	0		16	24	09	20	16	282
Project Manager		9	9		16	20	20	170	28	18	20	352		00	80	16				32	,	20	450	-		44	00	10	134		12	12	CI	N	20	20	24	18	40	16	12	185
SERVICE		BASIC			BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC			BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC				BASIC	BASIC	BASIC			BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	
FIRM	TNE	L&G			186	L&G	L&G	L&G	180	L&G	L&G			L&G	186	L&G	L&G	L&G	L&G	L&G	L&G	186				L&G	180	L&G			L&G	L&G	L&G	582	1.86	L&G	L&G	L&G	L&G	L&G	L&G	
DESCRIPTION (Attachment B)	SOCIAL & ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT General FC 120 Categories	Update EPIC sheets	Sub Total (120 - SOCIAL & ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT)	ROADWAY DESIGN CONTROLS	Geometric Design - Horiz & Vert Align Finalize From Schematic  1 Based on Field Surveys		3 Intersection Layouts ≈ 6 Intersections	4 Geometric Design - Roadway geometrics and P&P Sheets			8 Compute and Tabulate Quantities	Sub Total (160 - ROADWAY DESIGN CONTROLS)	DRAINAGE		Dramage Area Maps - determine and carculate  29 Hydraulic Computations - Boadside Ditches & Outfalls						3e Summary of Drainage Structure Quantities	5 Compute and Tabulate Quantities		(300) 100) 1000 1000	SIGNING and MARKINGS	1 Signing and Markings Layouts	Sign Detail Sheets & Standards		Sub Total (162 - SIGNING and MARKINGS)	MISCELLANEOUS ROADWAY	1 Coordinate w/ Surveyor for Survey Data Sheets	2 Traffic Control Plan (w/o Signal Modifications)		4 Specifications	1				10 Project Submittals - Bidding Documents Assembely of Final Documents (Graphic Files of Plan Sheets		12 ADA/TDLR Coordination	Sub Total (163 - MISCELLANEOUS ROADWAY)
FUNCTION	120			160									161		-10		69	c)	(1)	eg H					162					163		07								-	-	1

East Loop (Limits: I69E to FM3068 - Approx. 5.4 Miles) S&B Infrastructure (via CCRMA) GEC Contract

PROJECT: CLIENT: CONTRACT: CSJ: COUNTY:

Cameron

EXHIBIT D - L&G ENGINEERING FEE ESTIMATE



														FSTIMATED	
FUNCTION	DESCRIPTION (Attachment B)	FIRM	SERVICE	Project Manager	Engineer (V)	Engineer (IV)	Engineer (III)	Engineer in Training	Senior CADD Operator	CADD	Utilities Coord.	Admin / Clerical	TOTAL	FEE	TOTALS
164	GENERAL COORDINATION for Bid Packaging and Letting														
	1 Project Manager (Proj Coord)(2 HRS/WK)	L&G	BASIC	120									120	\$25.825.20	
	5 Project Secretary /CLERICAL (2 hrs/week)	L&G	BASIC									12	12	\$767.76	
	Sub Total (164 - GENERAL COORDINATION for Bid Packaging and Letting)			120	0	0	0	0	0	0	0	12	132		\$26,592.96
	LABOR TOTALS Total Hours			946	1,894	1,482	920	2,250	4.014	866	940	260	13.704		
	CONTRACT RATES: (\$/MAN-HOUR)			\$215.21	\$180.31	\$139.60	\$127.97	\$84.34	\$75.62	\$6	\$98.88	\$63.98			
	BASE RATES: (\$/MAN-HOUR)			\$74.00	\$62.00	\$48.00	\$44.00	\$29.00	\$26.00	\$24.00	\$34.00	\$22.00			
						4									\$1,495,181.56
160	NON LABOR														
	a Courier Services	L&G		48							i i	\$ 40.000		\$1,920.00	
	b Plan Development Prints (11" x 17")	L&G		12,000					Photocopies B/W (11" x 17") =	B/W (11" x	17")=	\$ 0.350		\$4,200.00	
	c Travel - Mileage During Plan Development	L&G		2,160 Miles	Miles					Milage Ra	Milage Rate (\$/mi.)= \$	\$ 0.540		\$1,166.40	
	Sub Total (F.C. 160)								I						\$7,286.40
	NON LABOR TOTAL													\$7,286.40	
	BASIC SERVICE TOTAL													\$1,495,181.56	
	SPECIAL SERVICE TOTAL													\$0.00	
	PROJECT TOTAL		2											\$1,502,467.96	

2-I CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NO. 22 WITH S&B INFRASTRUCTURE REGARDING THE EAST LOOP PROJECT.

### **WORK AUTHORIZATION NO. 22**

This Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement: Professional services including: providing engineering services required for the preparation of Plans, Specifications and Estimates (PS&E), Geotechnical & Utility Engineering Services and Construction Management support services for the proposed roadway project as identified as East Loop from Interstate 69E to 1.57 Miles East of the intersection of SH 4 and FM 1419 along with levee relocation – Project Roadway Length = 11.4 Miles, Project Levee Length = 1.7 Miles.

### Section A. - Scope of Services

A.1. GEC shall perform the following Services:

GEC shall perform the Services as listed in Exhibit B and as requested by the Authority.

### Section B. - Schedule

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

### Section C. - Compensation

- C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the Engineer the amount not to exceed \$5,001,659.38, based on the attached fee estimate shown on Exhibit D. Compensation shall be in accordance with the Agreement.
- C.2. The Authority shall pay the GEC under the following acceptable payment method Lump Sum Payment Method.
- C.3. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

### Section D. - Authority's Responsibilities

The Authority shall perform and/or provide the services as stated in Exhibit A in a timely manner so as not to delay the Services of the Engineer.

### Section E. - Other Provisions

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

-SIGNATURES ON NEXT PAGE-

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

### CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

By:	Keenle Fale Q.	
	Frank Parker, Jr., Chairman	
Date:	October 21, 2021	

S&B INFRASTRUCTURE, LTD.

By:	Danil a. Olion	
	Daniel O. Rios, PE, President	
D-4		

### LIST OF EXHIBITS

Exhibit A - Authority's Responsibilities

Exhibit B - Services to be Provided by Engineer

Exhibit C - Work Schedule

## EXHIBIT A Authority's Responsibilities

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

### **GENERAL**

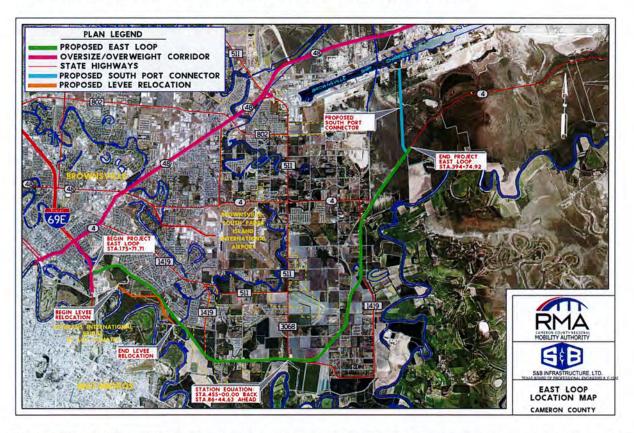
The **Authority** will provide to the **Engineer** the following:

- (1) Provide **Engineer** with a Notice to Proceed.
- (2) Payment for work performed by the **Engineer** and accepted by **Authority** in accordance with this Agreement.
- (3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, **State** and Federal agencies that the **Engineer** cannot easily obtain.
- (4) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain an agreed-upon work schedule.
- (5) Coordinate with TxDOT for items as needed. The Authority will negotiate and approve all change orders and other contract revisions that the Authority finds necessary or convenient to accomplish the construction activities for the Project. For change orders and other contract revisions that affect prior environmental approvals or result in non-conformity with the specifications and standards agreed upon for the Project, the Authority must assess any potential environmental effects and any additional or revised environmental permits, issues, coordination, mitigation, and commitments required as a result of the contract revisions.
- (6) Provide the **Engineer** the previous obtained mylars and electronic MicroStation files for the project.
- (7) Assist the **Engineer** in notifying previous Engineer Designers of modifications being made to existing plan designs.

# EXHIBIT B Services to be Provided by the Engineer

### **GENERAL**

The work to be performed by the Engineer under this contract consists of providing engineering services required for the preparation of Plans, Specifications and Estimates (PS&E), Geotechnical & Utility engineering services, and Construction Management support services for the proposed roadway project as identified in Contract as East Loop from Interstate 69E to 1.57 Miles East of the intersection of SH 4 and FM 1419 along with levee relocation -- Project Roadway Length = 11.4 Miles Project Levee Length 1.7 Miles.



The existing traffic capacity on existing roadways and number of main lanes must be maintained at all times during construction of the new facility, with any exceptions to be approved by the **State/Authority**. The Levee relocation must be completed to the Top of Levee Elevation (TOLE) without freeboard before the existing levee is removed. The **Engineer** shall prepare plans, details, and compute quantities to include roadway design, grading, paving, sidewalks, drainage including pump stations, traffic signals, signing, pavement markings, illumination – safety lighting, traffic control plans, storm water pollution prevention plans, retaining walls – noise walls, levee relocations, border fence relocation, specifications, and cost estimates. The **Engineer** shall prepare the bridge layouts and furnish the structural details, confirm the layouts and/or structural details with the **Authority**, and bridge quantities for the designated bridges. The **Engineer** shall also provide Construction Phase Services. (Construction Management Services are not included in this scope at this time)

The **Engineer** shall collect, review, and evaluate the available existing data pertaining to the project and prepare the Plans, Specifications and Estimates in accordance with the requirements and policies of the **State/Authority**.

The **Engineer** shall identify, prepare exhibits, and complete all necessary forms for Design Exceptions and/or Waivers within project limits <u>prior</u> to the 30% Submittal. These exceptions shall be provided to the **State/Authority** for coordination and processing of approvals. If subsequent changes require additional exceptions, the **Engineer** shall notify the **State/Authority** as soon as possible after identification.

The **Engineer** shall provide field surveying services necessary to produce the Digital Terrain Model (DTM), produce topographic maps, establish the project baseline on the ground, locate and tie existing utilities to the project baseline. Coordinate geometry shall be based on and tied into **State** plane surface coordinate system. During all surveying operations the traffic shall be controlled in accordance with the latest edition of the Texas Manual on Uniform Traffic Control Devices-Part IV.

It shall be the responsibility of the **Engineer** to secure permission to enter private property for the purpose of performing any surveying, environmental and engineering/geotechnical activities. In pursuance of the **State/Authority**'s policy with the general public, the **Engineer** shall not commit acts which will result in damages to private property and the **Engineer** will make every effort to comply with the wishes and address the concerns of private property owners. The **Engineer will**, at all times, contact the property owner prior to any entry onto the owner's property.

The **Engineer** shall coordinate with adjacent Engineers on all controls at interfaces. In the event agreement cannot be reached, each **Engineer** shall meet jointly with the **State/Authority** for resolution. The **State/Authority** shall have authority over the Engineers' disagreements and its decision shall be final.

The **Engineer** shall perform their work in accordance with the **State**'s <u>Utility Accommodation Policy</u>. The **Engineer** shall prepare drawings early in the design phase (30%) to be used as exhibits in utility agreements. The exhibits shall be prepared using English units. The **Engineer** shall show existing utilities, including those in conflict with construction on this project. The **Engineer** shall prepare plans to avoid utility adjustments, where feasible. The **Engineer** shall be responsible for sending out notices, with copies of exhibits and plans, including all milestone submittals.

The **Engineer** shall compile, maintain, and update a Utility Conflict List. The **Engineer** shall provide the most current copy of the conflict list to the **State/Authority** at each milestone submittal and shall be responsible for coordination with utility companies to resolve conflicts. The Utility Conflict List shall identify the owner of the facility, the contact person (with address and telephone number), location of conflict (station and offset), type of facility, expected clearance date and type of adjustment necessary.

The **Engineer** shall prepare any exhibits necessary for IBWC, CBP and/or Utility approvals, and other governmental/regulatory agencies, specific to the project.

The **Engineer** shall coordinate through the **Authority**'s Project Manager for the development of the PS&E with any local entity having jurisdiction or interest in the project (e.g., city, county, municipal utility district, irrigation district, drainage district, etc.)

The **Engineer** shall conduct traffic counts, prepare Traffic Signal Warrant Studies, and traffic signal plans for temporary, existing, and permanent locations at designated intersections.

The **Engineer** shall prepare Traffic Control Plans (TCP) in coordination with the **State/Authority**. The TCP shall include interim signing for every phase of construction. This is to include regulatory, warning, construction, route, and guide signs. The **Engineer** shall interface and coordinate phases of work, including the TCP, with adjacent Engineers, which are responsible for the preparation of the PS&E for adjacent projects.

The **Engineer** shall maintain continuous access to abutters during all phases of the TCP. The **Engineer** shall develop a list of all abutters along its alignment. The **Engineer** shall prepare exhibits for and attend meetings with the public, as requested by the **State/Authority**.

The **Engineer** shall provide safety lighting at all intersections and interchanges required within the Project limits. The **Engineer** shall prepare exhibits as required to obtain agreements with adjacent municipalities. The **Engineer** shall tabulate all quantities and provide summary sheets.

The **Engineer** shall make every effort to prevent detours and utility relocations from extending beyond the proposed Right-of-way lines. If it is necessary to obtain additional permanent or temporary easements and/or Right-of-Entry, the **Engineer** shall notify the **State/Authority** in writing of the need and justification for such action. The **Engineer** shall identify and coordinate with all utility companies for relocations required.

The PS&E shall be complete and organized in accordance with the most current TxDOT-PS&E Preparation Manual. The PS&E package shall be suitable for the bidding and awarding of a construction contract, and in accordance with the latest **State/Authority**'s policies and procedures.

The **Engineer** shall use CADD to fully develop all drawings. The **Engineer** shall utilize corridor modeling software for the earthwork and cross-section data files in a GEOPAK format at each milestone submittal as an evolving electronic data file.

The **Engineer** shall design, develop, and prepare all documents, including PS&E, in English units. The final plan sheets shall be size 11" x 17", signed, sealed, and dated by a Professional Engineer registered in the **State** of Texas (where required). The plans shall be noted as copyrighted with the **Authority's** and **State's** logo.

PS&E for the above work shall be prepared in accordance with the applicable requirements of the State's Specifications, Standards and Manuals (latest revision). Whenever possible, the State's standard drawings, standard specifications, or previously approved special provisions and/or special specifications shall be used. If a special provision or a special specification must be developed or modified for this project, it shall be in the State's format and, to the extent possible, incorporate references to approved State test procedures. Any specifications developed by the Engineer shall be submitted to the State/Authority for approval prior to inclusion in the PS&E. The Engineer shall sign, seal, and date all project specific modifications to standard drawings.

The **Engineer** shall make submittals, as defined by the milestones in Exhibit C, and in accordance with the latest **State/Authority**'s policies and procedures. The submittals shall consist of electronic .pdf submittals. The **Engineer** shall reply to each comment either within the plan set or by separate cover letter. The **Engineer** shall make all agreed upon changes to the submitted documents before the next scheduled submittal.

The **Engineer** may be required to meet with the **Authority**'s Project Manager to report on progress. After each meeting with the **State** and any other meeting, the **Engineer** shall prepare meeting minutes, solicit, and incorporate participants' comments, distribute the minutes, submit a memorandum summarizing the events, including an ACTION ITEM LIST, within five (5) working days of the meeting.

The **Engineer** shall invoice monthly according to Function Code breakdowns in accordance with the format provided at the Kick-off meeting and shall include Form 132 version 9-90 or equivalent. This invoice shall include a completed Form 132, a written progress report, a Projected vs. Actual Contract Invoices by Month form and a bar chart indicating the percentage of completion of each task shown in Attachment E. The written progress report shall describe activities during the reporting period; activities planned for the following period; problems encountered, and actions taken to remedy them; list of meetings attended; and overall status, including a per cent complete by task.

The **Engineer** shall design all conventional storm drainage and cross drainage systems. The **Engineer** shall evaluate the hydraulic grade line throughout the whole system, within the project limits, for the design frequency(ies) and make necessary system adjustments for conformance to program criteria. Should there be adjacent projects under design, the **Engineer** shall coordinate with the **State/Authority** and designers of adjacent projects such that all proposed drainage systems accommodate the proposed construction phasing plan.

The **Engineer** shall include the Storm Water Pollution Prevention Plans (SW3P) items for each phase of constructions, including details and pay quantities with respect to the Construction phase. The **Authority** will provide the Notice of Intent.

The **Engineer** shall prepare both a design time schedule, and an estimated construction contract time schedule, using the latest version of Excel, Primavera or SureTrak software in accordance with the **State**'s *Administrative Circular No. 17-93*. The schedules shall indicate tasks, production rates, subtasks, critical dates, milestones, deliverables, and review requirements in a format that depicts the interdependence of the various items. The **Engineer** shall aid **State/Authority** personnel in interpreting the schedules. Milestone submittals shall be at 30 %, 60 %, 90%, 95% and final. If the **Engineer** cannot meet the scheduled milestone review date they are to advise the **State/Authority** in writing.

In addition to scheduling software set forth above, reports and/or spreadsheets prepared in connection with these services shall be in the Microsoft (MS) Office software compatible with the versions to the **State/Authority**'s software packages.

The project's engineering work may be inspected by both the **State/Authority** and the Federal Highway Administration in the offices of the Engineer, except for the field work which shall be performed on-site, and the sub-consultant work which will be performed in the office of the sub-consultant. After notice to proceed is given in writing, the PS&E for the work outlined above shall be completed and submitted to the **State/Authority** within the negotiated contract period per the identified milestones in the schedule.

All documents submitted to the **State/Authority** shall be accompanied by a letter of transmittal which shall include, but need not be limited to, the highway number, project limits, county, CSJ, and contract number.

The **Engineer** shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the **State/Authority**. The **State/Authority** must approve any replacement to the Engineer's designated Project Manager.

The **Engineer** shall prepare and execute contracts with sub-consultants, monitor sub-consultant activities (staff and schedule), and review and recommend approval of sub-consultant invoices.

The **Engineer** shall implement their Quality Assurance/Quality Control program prior to submitting plans to the **State/Authority** for each of the milestones. The **Engineer** is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The **Engineer**'s responsibility for all questions arising from design errors and/or omissions will be determined by the **State/Authority** and all decisions shall be final and binding. This would include, but not necessarily be limited to:

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

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

An evaluation of the **Engineer**'s performance, professionalism, quality of plan preparation, etc. will be performed annually by the **State/Authority**.

### **WORK OUTLINE**

### ROUTE AND DESIGN STUDIES (Function Code 110)

- A. Data Collection. The Engineer shall collect, review, and evaluate data described below. The Engineer shall notify the State/Authority in writing whenever the Engineer finds disagreement with the information or documents:
  - 1. Data, if available, from the **State/Authority**, including "as-built plans", existing schematics, right-of-way maps, SUE mapping, existing cross sections, existing planimetric mapping, environmental documents, existing channel and drainage easement data, existing traffic counts, accident data, BRINSAP records, PMIS data, identified endangered species, identified hazardous material sites, current unit bid price information, current special provisions, special specifications, and standard drawings.
  - 2. Documents for existing and proposed development along proposed route from local municipalities and local ordinances related to project development.
  - 3. Utility plans and documents from appropriate municipalities and agencies.
  - 4. Readily available flood plain information and studies from the Federal Emergency Management Agency (FEMA), the U. S. Army Corps of Engineers, local municipalities, and other governmental agencies in addition to that provided by the **State/Authority**.
- **B.** Field Reconnaissance. The Engineer shall conduct field reconnaissance and collect data including a photographic record (to be maintained in Engineer's office) of notable existing features.
- C. Design Concept Conference. The Engineer, in cooperation with the State/Authority shall plan, attend, and document a Design Concept Conference (DCC). Personnel from the State's Pharr District will participate. The conference will provide for a brainstorming session in which decision makers, stakeholders, including USIBWC and technical personnel may discuss and agree on:
  - 1. Roadway and drainage design parameters
  - 2. Engineering and environmental constraints
  - 3. Project development schedule
  - 4. Other issues as identified by the **State/Authority**
- D. Roadway and Hydraulic Design Criteria. The Engineer shall design the project using the State's design criteria. The Engineer shall supply project specific design criteria (typical sections, estimate, design exceptions, etc.) to be inserted into the Design Elements form for discussion at the DCC.

The Engineer shall develop the roadway design criteria based on the controlling factors specified (i.e., 4R, 3R, 2R, or special facilities), by use of the funding categories, design speed, functional classification, roadway class and any other set criteria as set forth in Roadway Design Manual, Bridge Design Manual, Hydraulic Design Manual, and other deemed necessary State approved manuals. In addition, the Engineer shall prepare the Design Summary Report, DSR.

- E. Geotechnical Borings. The Engineer shall determine the location of proposed soil borings for bridge design, embankment settlement analysis, retaining walls/sound walls, and slope stability and along storm sewer alignment. The State/Authority will review and provide recommendation for a boring layout submitted by the Engineer showing the general location and depths of the proposed borings. Once the Engineer receives the State/Authority's recommendations they shall perform soil borings (field work), soil testing and prepare the soil borings in accordance with Pharr District's procedures. The Engineer shall prepare a geotechnical report to include soil boring locations, soil boring logs, signed, sealed, and dated for insertion into plans, lab test results, design capacity curves including skin friction and point bearings for piling and drilled shaft foundations.
- **F. Geotechnical Investigations.** The **Engineer** shall determine the location of proposed soil borings for bridge design and pavement design in accordance with the latest edition of the State's Geotechnical Manual.
  - 1. The following is a list of proposed borings for the project:

Bridge Borings (@ Canal): 2 Holes @ 80' depth

Bridge/Embank Borings (@ SH 4): 9 Holes @ 100' depth

<u>Levee Borings</u>: 26 Holes @ 65' depth

Roadway Pavement Borings\*\*\*:
62 Holes @ 15' depth
(\*1000 ft increments)

Noise Wall Borings: 10 Holes @ 65' depth

Large Sign Borings: 6 Holes @ 20' depth

Total 115 Borings
Total Linear Footage – 4450 linear feet of borings

- 2. All geotechnical work should be performed in accordance with the latest version of the State's Geotechnical Manual. All testing shall be performed in accordance with the latest version of the State's Manual of Test Procedures. American Society for Testing Materials (ASTM) test procedures can be used only in the absence of the State's procedures. All soil classification should be done in accordance with the Unified Soil Classification System. Levee design will be in accordance with US Army Corps of Engineers (USACE) for all levee elements.
- 3. The Geotechnical Report recommendations shall be in accordance with TxDOT Standard Specification Item 423, "Retaining Walls", and applicable standard retaining/noise wall drawings. The report shall specifically note if modifications are required to either the specification or standard drawings. No additional walls are anticipated to address proposed slopes steeper than 4:1. Instead, slope stabilization

- through soil admixtures, such as geo-grids, fibers or soil-cement, or riprap will be utilized if necessary, based on geotechnical recommendations.
- 4. The Engineer shall provide a signed, sealed and dated geotechnical report which contains, but is not limited to, soil boring locations, boring logs, laboratory test results, generalized subsurface conditions, ground water conditions, analyses, and recommendations for slope stability of the earthen embankments, skin friction and design capacity curves including skin friction and point bearing. The skin friction and design capacity curves must be present for piling and drilled shaft foundation.
- 5. The **Engineer** shall provide Grain Size Distribution Curves with D<sub>50</sub> values at 2 locations throughout the project. If the bridge borings indicate rock, the **Engineer** shall include a Rock Quality Designation (RQD) for each of the borings provided in this area to determine the stability of the rock for use during scour analysis.
- 6. The **Engineer** shall sign, seal and date soil boring sheets to be used in the PS&E package. The preparation of soil boring sheets must be in accordance with a State's District standards.
- 7. Pavement Design: The **Engineer** shall provide a signed and sealed pavement design report to reflect a flexible pavement structure.
- 8. The **Engineer** shall incorporate soil boring data sheets prepared, signed, sealed, and dated by the **Engineer**. The soil boring sheets shall be in accordance with the State's WINCORE Software as can be found on the TxDOT Website.

### RIGHT-OF-WAY DATA (Function Code 130)

- A. Utility Adjustments. The Engineer shall coordinate with the State/Authority to determine the location of all existing and proposed utilities and attend meetings with the various utility companies to discuss potential conflicts. The Engineer shall be responsible for covering milestone meetings, minutes, invitations to utility companies to attend milestone meetings, correspondence, etc.
- B. Proposed Utility Layouts, Utility Coordination and Meetings

The **Engineer** shall perform the following duties:

- Meet with Utility providers periodically to coordinate the work efforts and resolve any utility related problems. The Engineer shall prepare the minutes for these meetings and forward them to the State/Authority. The Engineer shall address the following issues and any other items deemed necessary during the Utility Coordination meetings:
  - a) Activities completed since last meeting
  - b) Problems encountered.
  - c) Late activities.
  - d) Activities required by the next progress meeting.
  - e) Solutions for unresolved and/or anticipated problems.
  - f) Information or items required from other agencies/consultants.
- 2. If a reimbursable utility relocation exists, request conveyance documents from the utility provider and notify the **State/Authority** in writing.
- 3. Notify the Utility companies in writing of the project letting date, requesting that they relocate prior to letting, and requesting the following information in writing:
  - a) Relocation plan according to Utility Accommodation Policy Manual.
  - b) Forward their relocation plan to the **Engineer**.
  - c) When relocation of utilities will be complete.

- Forward as-built plans to the State/Authority upon immediate completion of relocation.
- 4. Develop the typical sections, alignment, and preliminary cross sections addressing the utility location and forward to the respective utility company.
- 5. Update all files and plans based on the utility company responses.
- 6. Identify all utility conflicts on the plans and prepare layouts and profiles of existing utility crossings showing conflicts of utilities with proposed improvements. The **Engineer** shall forward these layouts to the **State/Authority** and the utility companies. During design process, the **Engineer** shall field verify all visible utility conflicts.
- 7. Verify the proposed relocation plan submitted by the Utility companies to assure their design is according to Utility Accommodation Policy Manual. Upon the **Engineer**'s review and concurrence with the proposed relocation plan, they shall forward their recommendation for approval to the **State/Authority**.
- 8. Gather all vertical and horizontal information for overhead utilities (location, elevation, direction, etc.) within the existing and proposed right of way that will not be obtained by Subsurface Utility Engineering (SUE).

In order to promote uniformity in the coordination of utility adjustments and to minimize construction delays, the following procedures must be followed on every design project:

- Notify the Authority of the upcoming utility meeting as soon as the date is known
- · Identify all utilities within the project limits
- Have a utility kick off meeting and introduce the project
- Identify any utilities that hold a compensable interest and may be reimbursable
- Notify the State/Authority if any compensable utilities have been identified
- Start a utility file folder for each utility identified within project corridor
- Carbon copy all correspondence and project notes to the State/Authority
- Advise Utility Companies as soon as possible in order for them to budget for the anticipated adjustments

### At the 30% PS&E Stage, the Engineer shall:

- Make available all horizontal and vertical data and plan sheets for markups to utility companies.
- Coordinate with utility companies to commence obtaining positive ties by test holing and placing PVC on existing utilities within project limits
- Coordinate with utility companies to obtain accurate location data showing horizontal and vertical information within thirty (30) days of utility coordination meeting
- Obtain positive ties (Station, offset & elevation) on any compensable utilities that have been identified

### At the 60% PS&E Stage the Engineer shall:

- Conduct a utility follow up meeting for exchange of information
- Analyze all horizontal and vertical utility information available.
- Explore the possibility of designing around existing utilities in order to avoid conflicts
- Ensure that the utility company has thirty days (30) after receipt of substantially complete storm drain design to provide a relocation plan of adjustment with utilities schedule of work and estimated start date
- Establish priorities for any remaining / outstanding utility such as conflicts with outfalls

### At 90% PS&E Stage the Engineer shall:

- · Conduct the final Utility Meeting
- Provide plan sheets to utility companies and any other information that may be required in assisting with adjustments
- Establish a schedule for utility adjustment start and completion dates
- Submit notification letter from TxDOT following meeting with commitment dates from utilities

### At 100% PS&E Stage the Engineer shall:

Submit completed utility folders (permitted utilities) to area office construction engineer.

The **Engineer** shall also be responsible for the following:

- 1. Traffic Control Plan (TCP). Provide all traffic control, labor, and equipment. The Engineer shall comply with the regulations of the most recent edition of the "Texas Manual on Uniform Traffic Control Devices". In the event field personnel must divert traffic or close traveled lanes, a Traffic Control Plan shall be prepared by the Engineer's surveyor and approved by the State/Authority prior to commencement of field work. A copy of the approved plans shall be in the possession of field personnel on the job site at all times and shall be made available to State/Authority personnel upon request.
  - All standards, procedures and equipment used by the Surveyor shall be such that the results of survey will be in accordance with Board Rule 663.15, as promulgated by the Texas Board of Professional Land Surveyors.
- 2. Permits and rights of entry. Obtain all necessary permits from property owners, city, county, municipality, railroad, or other jurisdiction to allow the **engineer** to work within existing streets, roads, or private property for designating and/or subsurface utility locating service.
- 3. Condition Assessments. The **Engineer** shall perform and document condition assessments of the utility facility by utilizing ultrasonic equipment, interior pipe wall videos, visual inspection, or other techniques, when requested.

### C. SUBSURFACE UTILITY ENGINEERING (SUE)

- Utility Engineering Investigation (currently a Level D being performed under APD work order) including utility investigations subsurface and above ground prepared in accordance with AASHTO standards and Utility Quality Levels as follows:
  - a) Utility Quality Levels are defined in cumulative order (least to greatest) as follows:
    - 1) Quality Level D Existing Records: Utilities are plotted from review of available existing records.
    - 2) Quality Level C Surface Visible Feature Survey: Quality level "D" information from existing records is correlated with surveyed surface-visible features. Includes Quality Level D information. If there are variances in the designated work area of Level D then a new schematic or plan layout, if needed, is required showing the limits of the proposed project and limits of the work area required for this work authorization; including highway stations, limits within existing or proposed right of way, additional areas outside the proposed right of way, and distances or areas to be included down existing intersecting roadways.

- 3) Quality Level B Designate: Two-dimensional horizontal mapping. This information is obtained through the application and interpretation of appropriate non-destructive surface geophysical methods. Utility indications are referenced to established survey control. Incorporates quality levels C and D information to produce Quality Level B. If there are variances in the designated work area of Level D then a new schematic or plan layout, if needed, is required showing the limits of the proposed project and limits of the work area required for this work authorization; including highway stations, limits within existing or proposed right of way, additional areas outside the proposed right of way, and distances or areas to be included down existing intersecting roadways.
- 4) Quality Level A Locate (Test Hole): Three-dimensional mapping and other characterization data. This information is obtained through exposing utility facilities through test holes and measuring and recording (to appropriate survey control) utility/environment data. Incorporates quality levels B, C and D information to produce Quality Level A.
- b) <u>Designate (Quality Level B)</u>, Designate means to indicate the horizontal location of underground utilities by the application and interpretation of appropriate nondestructive surface geophysical techniques and reference to established survey control. Designate (Quality Level B) Services are inclusive of Quality levels C and D.
  - 1) The **Engineer** shall:
    - (a) As requested by the State/Authority compile "As Built" information from plans, plats and other location data as provided by the utility owners.
    - (b) Coordinate with utility owner when utility owner's policy is to designate their own facilities at no cost for preliminary survey purposes. The **Engineer** will examine utility owner's work to ensure accuracy and completeness.
    - (c) Designate, record, and mark the horizontal location of the existing utility facilities and their service laterals to existing buildings using non-destructive surface geophysical techniques. No storm sewer facilities are to be designated unless authorized by the State/Authority. A non-water base paint, utilizing the APWA color code scheme, must be used on all surface markings of underground utilities.
    - (d) Correlate utility owner records with designating data and resolve discrepancies using professional judgment. A color-coded composite utility facility plan with utility owner names, quality levels, line sizes and subsurface utility locate (test hole) locations, if applicable will be prepared and delivered to the State/Authority. It is understood by both the Engineer and the State/Authority that the line sizes of designated utility facilities detailed on the deliverable are from the best available records and that an actual line size is normally determined from a test hole vacuum excavation. A note must be placed on the designate deliverable only that states "lines sizes are from best available records". All above ground appurtenance locations must be included in the deliverable to the State/Authority. This information will be provided in the latest version of MicroStation or GeoPak used by the State/Authority. The electronic file will be delivered on C.D., as

- required by the State's District Office. A hard copy is required and must be signed, sealed, and dated by the **Engineer**. When requested by the State's District Office, the designated utility information must be over laid on the **State/Authority**'s design plans.
- (e) Determine and inform the State/Authority of the approximate utility depths at critical locations as determined by the State/Authority. This depth indication is understood by both the Engineer and the State/Authority to be approximate only and is not intended to be used preparing the right of way and construction plans.
- (f) When requested, provide a monthly summary of work completed and in process with adequate detail to verify compliance with agreed work schedule.
- (g) Close-out permits as required.
- (h) Clearly identify all utilities that were discovered from quality levels C and D investigation but cannot be depicted in quality level B standards. These utilities must have a unique line style and symbology in the designate (Quality Level B) deliverable.
- (i) Comply with all applicable State policy and procedural manuals.
- c) <u>Subsurface Utility Locate (Test Hole) Service (Quality Level A)</u>, Locate means to obtain precise horizontal and vertical position, material type, condition, size, and other data that may be obtainable about the utility facility and its surrounding environment through exposure by non-destructive excavation techniques that ensures the integrity of the utility facility. Subsurface Utility Locate (Test Hole) Services (Quality Level A) are inclusive of Quality Levels B, C, and D.
  - 1) The **Engineer** shall:
    - (a) Review requested test hole locations and advise the State/Authority in the development of an appropriate locate (test hole) work plan relative to the existing utility infrastructure and proposed highway design elements.
    - (b) Coordinate with utility owner inspectors as may be required by law or utility owner policy.
    - (c) Neatly cut and remove existing pavement material, such that the cut not to exceed 0.10 square meters (1.076 square feet) unless unusual circumstances exist.
    - (d) Measure and record the following data on an appropriately formatted test hole data sheet that has been sealed and dated by the **Engineer**:
      - (1) Elevation of top and/or bottom of utility tied to the datum of the furnished plan.
      - (2) Identify a minimum of two benchmarks utilized. Elevations shall be within an accuracy of 15mm (.591 inches) of utilized benchmarks.
      - (3) Elevation of existing grade over utility at test hole location.
      - (4) Horizontal location referenced to project coordinate datum.
      - (5) Outside diameter of pipe or width of duct banks and configuration of non-encased multi-conduit systems.
      - (6) Utility facility material(s).
      - (7) Utility facility condition.
      - (8) Pavement thickness and type.

- (9) Coating/Wrapping information and condition.
- (10) Unusual circumstances or field conditions.
- (e) Excavate test holes in such a manner as to prevent any damage to wrappings, coatings, cathodic protection or other protective coverings and features. Water excavation can only be utilized with written approval from the appropriate State District Office.
- (f) Be responsible for any damage to the utility during the locating process. In the event of damage, the **Engineer** shall stop work, notify the appropriate utility facility owner, the State and appropriate regulatory agencies. The regulatory agencies include but are not limited to the Railroad Commission of Texas and the Texas Commission on Environmental Quality. The **Engineer** will not resume work until the utility facility owner has determined the corrective action to be taken. The **Engineer** shall be liable for all costs involved in the repair or replacement of the utility facility.
- (g) Back fill all excavations with appropriate material, compact backfill by mechanical means, and restore pavement and surface material. The Engineer shall be responsible for the integrity of the backfill and surface restoration for a period of three years. Install a marker ribbon throughout the backfill.
- (h) Furnish and install a permanent above ground directly above center line of the utility facility.
- (i) Provide complete restoration of work site and landscape to equal or better condition than before excavation. If a work site and landscape is not appropriately restored, the **Engineer** shall return to correct the condition at no extra charge to the **State/Authority**.
- (j) Plot utility location position information to scale and provide a comprehensive utility plan sign and sealed by the responsible Engineer. This information will be provided in the latest version of MicroStation or GeoPak format used by the State/Authority. The electronic file will be delivered on USB. When requested by the State/Authority, the Locate information must be over laid on the State/Authority's design plans.
- (k) Return plans, profiles, and test hole data sheets to the **State/Authority**. If requested, conduct a review of the findings with the **State/Authority**.
- (I) Close-out permits as required.

### D. COMPENSABLE UTILITIES

Utility Accommodation is an integral factor in road construction and design. Coordination of utility adjustments is a necessary function within planning, design, acquisition, and construction and requires the administration of property rights issues, utility policy, and reimbursement of eligible utility adjustments. It includes the following tasks:

- a) Preliminary Design Consultations
  - Conduct Field Investigation and review Certificate of Convenience and Necessity boundaries to identify utility providers within the project area. Communications through letter, phone calls and email to establish a contact list. Coordinate data gathering by surveyors and design team. Introduce project to utility providers.

- b) Field Observations and Verifications
  - Provide maps to Utility providers to "redline" and identify conflicts. Coordinate exposures and data collection by surveyor. Provide and confirm utility data on project maps. Order Utility Location Service.
- c) Exchange of Information with Utility Providers
  - i) Provide project schedule.
  - ii) Request schedules for utility adjustments.
  - iii) Identify who is responsible for utility process.
- d) Confirmation of Property Interests
  - i) Request Documents.
  - ii) Coordination of data on maps and citation of property interest documents.
  - iii) Confirm utilities are within easements.
- e) Coordination of Agreements
  - i) Identify utilities that are compensable.
  - ii) Determine parties and agreements necessary to complete compensable process.
  - iii) Coordinate execution and processing of Standard Utility Agreements.
- f) Utility Meetings throughout project development
- g) Set up and coordinate utility meetings during planning, design, acquisition, and construction phases.
- h) Attend and participate in meetings by other parties.

### E. PAYMENT SCHEDULE

Compensable Utilities – Payment is by percent complete.

### FIELD SURVEYING AND PHOTOGRAMMETRY (Function Code 150)

A. Field Surveying. The Engineer shall verify and reset existing benchmarks previously set in previous work orders.

### The **Engineer** shall:

- 1. Stake Project Baseline: The project base line must be coincidental with, or parallel to, the stationed "Design Center Line." Base line control points shall be established using 15M(ASTM) (5/8 inch) iron rods, 36 inches long, at P.C.'s, P.I.'s and P.T.'s of horizontal curves and at 1000 feet maximum intervals on tangents. Baseline control points shall be offset with set iron rods on both sides near the existing ROW lines at a measured distance. If available, coordinate to field tie to the Project baseline set by adjacent Engineers for consistency and accuracy.
- 2. Vertical Control for existing Benchmarks: Locate previously set benchmarks established by **Engineer** (In accordance with the horizontal control of North American Datum of 1983 (NAD 83) with elevations being based on the North

American Datum 88 (NAVD88); establish benchmark circuit (run levels) throughout the Project; establish additional benchmarks at intervals not to exceed 1,000 feet for the limits of the Project; tie benchmarks (station/offset) to Project baseline. Benchmarks shall be 20M (ASTM) (3/4-inch) diameter, 48 inches long, located near the existing ROW line at a measured distance. All benchmark circuits shall be tied to the **State**'s elevation datum. Perform the benchmark circuits in accordance with good surveying practices. The Surveyor shall verify the closure and submit adjustments to **State/Authority** for approval prior to beginning the field surveys.

- 2A. Vertical Control for new Benchmarks: Shall meet the following requirements:
  - TxDOT GPS Level 3 (VRS) Survey guidelines and shall have (X, Y, & Z)
    coordinates assigned to them. (Access will be provided to State's Real Time
    Kinematic (RTK) Virtual Reference Station (VRS) Network via license
    agreement)
  - · Provide Station and Offset.
  - Perform a three-wire level routine in SDMS to establish the elevations of the benchmarks.
  - 3. Profile and cross section intersecting streets and driveways (to 50 feet outside ROW for driveways, and 200 feet for intersecting streets and 500 feet for intersecting streets greater than two lanes wide) for tie into project.
  - 4. Cross section drainage channels for a distance of 200 feet each way outside the ROW lines. Cross sections shall not exceed 100 feet intervals and shall be taken at right angles to the channels.
  - 5. Secure right-of-entry (short of litigation), as needed for the project.
  - 6. Tie to existing underground and overhead utilities (location, elevation, size, and direction), in accordance with Attachment A.
  - 7. ROW staking for additional field topography related to design work.
  - 8. Determine and make changes to topography from outdated maps due to development, erosion, etc.
  - 9. Determine type of existing material, pavements, etc.
  - 10. Obtain profiles of existing drainage facilities.
  - 11. Obtain measurement of hydraulic opening under existing bridges.
  - 12. Obtain top of manhole and flowline elevations, type, and size, etc. of manholes, inlets, and valves of utilities.
  - 13. Provide temporary signs, traffic control, flags, safety equipment, etc. and obtain necessary permits.
  - 14. Obtain ties to existing bridges or culverts that may conflict with new construction.

- 15. Verify DTM (cross sections at panel points). Obtain additional existing ground cross sections as necessary to supplement the DTM files. Obtain cross sections at the center panel points to verify the DTM.
- 16. Obtain line (PGL) and the edges of slab at bent location.
- 17. Perform datum ties as required. If required, establish an elevation base on the **State**'s datum to other public entities published benchmarks.
- 18. The Surveyor using wetlands delineation information provided by the State/Authority shall stake the areas containing wetlands. The Surveyor is to information back to the Engineer in an electronic file to be incorporated onto the P&P sheets
- 19. Establish x, y, and z coordinates on all boreholes performed under Function Code 110.
- 20. Tie to existing underground and overhead utilities (location, elevation, size, and direction) and the utility locates as obtained under Function Code 130.
- 21. The Surveyor shall provide all traffic control, labor and equipment while performing their services and comply with the latest edition of the *Texas Manual on Uniform Traffic Control Devices*. In the event field personnel must divert traffic or close traveled lanes, a Traffic Control Plan shall be prepared by the **Engineer**'s surveyor and approved by the **State/Authority** prior to commencement of field work. A copy of the approved plans shall be in the possession of field personnel on the job site at all times and shall be made available to **State/Authority** personnel upon request.
- 22. All standards, procedures and equipment used by the Surveyor shall be such that the results of survey will be in accordance with Board Rule 663.15, as promulgated by the Texas Board of Professional Land Surveyors. At a minimum, the following standards of accuracy shall be met:

### B. Horizontal Ground Control

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

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

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

### C. Vertical Ground Control

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

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

### **ROADWAY DESIGN** (Function Code 160)

A. Roadway & Levee Design. All roadway and levee design will be based on the approved Schematics provided by the Authority. The Engineer shall provide roadway and levee plan and profile drawings using CADD standards as required by the State/Authority. The drawings shall consist of a planimetric file of existing features and files of the proposed improvements. The roadway and levee base map shall contain line work that depicts existing surface features obtained from the schematic drawing. Existing major subsurface and surface utilities shall be shown. Existing and proposed right-of-way lines shall be shown.

The plan view shall contain the following design elements:

- 1. Calculated roadway centerlines for new eastbound and/or westbound mainlanes, ramps, and cross streets. Horizontal control points shall be shown. The alignments shall be calculated using GEOPAK.
- 2. Pavement edges for all improvements (mainlanes, ramps, cross streets access roads, maintenance roads and driveways).
- 3. Lane and pavement width dimensions.
- 4. The geometrics of ramps, auxiliary and managed lanes.
- 5. Proposed structure locations, lengths, and widths.
- 6. Direction of traffic flow on all roadways. Lane lines and/or arrows indicating the number of lanes shall also be shown.
- 7 Drawing scale shall be 1"=100'
- 8. Access Denial line & ROW lines and easements.
- 9. Begin/end superelevation transitions and cross slope changes.
- 10. Limits of riprap block sod and seeding.
- 11. Existing utilities and structures.
- 12. Benchmark information.
- 13. Radii callouts, curb location, CTB, guard fence, crash safety items and American with Disabilities Act Accessibility Guidelines (ADAAG) compliance items.

The profile view shall contain the following design elements:

- 1. Calculated profile grade for proposed roadways, including mainlanes, direct connectors, ramps, cross streets, and frontage roads. Vertical curve data, including "K" values shall be shown.
- 2. Existing and proposed profiles along the proposed centerline of the mainlanes, the outside shoulder line of ramps, and the outside gutter line of frontage roads.
- 3. Water surface elevations at major stream crossing for 10-, 25-, 50-, and 100- year storms.
- 4. Calculated vertical clearances at grade separations and overpasses, taking into account the appropriate superelevation rate, superstructure depth and required clearance.
- 5. The location of interchanges, mainlanes, grade separations and ramps (shall include cross sections of any proposed or existing roadway, structure, or utility crossing).
- 6. Drawing vertical scale to be 1"=10'.
- 7. For the Levee sheets the Design Water Surface profile shall also be shown.
- B. Typical Sections: Typical sections shall be required for all proposed and existing roadways, levees, and structures. Typical sections shall include width of travel lanes, shoulders, outer separations, border widths, curb offsets, managed lanes, and ROW. The typical section shall also include PGL, centerline, pavement design, longitudinal joints, side slopes, sodding/seeding limits, concrete traffic barriers, station limits, common proposed/existing structures including retaining walls, riprap, limits of embankment excavation, etc.
- C. Roadway Design: The Engineer shall provide the design of all roadways, including mainlanes, entrance and exit ramps, managed lanes, and auxiliary lanes. The design shall be consistent with the approved schematic and the current *Roadway Design Manual*. If managed lanes are to be designed this work shall be coordinated through the State/Authority.
- D. Levee Design: The Engineer shall provide the design of the levee relocation in coordination with the USIBWC. A continuous maintenance road shall be provided. The design shall be consistent with the approved schematic and the current Design and Construction of Levees Manual.
- E. Cross Streets: The Engineer shall provide an intersection layout detailing the pavement design and drainage design at the intersection of each designated major cross street. The layout shall include the curb returns, geometrics, transition length, stationing, pavement, and drainage details. The Engineer shall design for full pavement width to the ROW and provide a transition to the existing roadway.
- G. Cut and Fill Quantities. The Engineer shall develop an earthwork analysis which will be based on Open Roads utilizing 3d modeling. Cross sections shall be delivered in standard GEOPAK format on 11"x17" sheets and electronic files. The Engineer shall provide all criteria and input files used to generate the design cross sections. Cross sections and quantities shall consider existing pavement removals. Two sets of drawings shall be submitted by the Engineer at the 30%, 60%, and 90%, and final submittals, respectively.

- H. Border Fence Relocation. The Engineer shall coordinate through the Authority with United States Department of Homeland Security (DHS) for the requirements and regulations for the border fence relocation. The temporary fence shall be salvaged as per DHS guidelines.
- H. Plan Preparation. The Engineer shall prepare roadway plans, profiles, and typical sections for the proposed improvements. This scope of services and the corresponding cost proposal are based on the Engineer preparing plans to construct east and west bound lanes, ramps, and cross streets at intersections. Wetlands information as provided by the State/Authority is to be staked by the Engineer for delineation and this data shall be electronically transferred to the P&P sheets.
- I. Pavement Design. The Engineer shall incorporate the pavement design developed by the State/Authority for this project.
- J. Pedestrian and Bicycle Facilities. The Engineer shall coordinate with the State/Authority to incorporate pedestrian and bicycle facilities as required. All pedestrian facilities must be designed in accordance with the latest Americans with Disabilities Act Accessibility Guidelines (ADAAG), the Texas Accessibility Standards (TAS), and the AASHTO Guide for the Development of Bicycle Facilities".
- K. Driveway Details. The Engineer shall design all driveways in accordance TxDOT's, "Regulations for Access Driveways to State Highways", any approved latest version of the "Access Management Manual", and the Pharr District Standard Driveway Details. The Engineer shall notify the State/Authority early in the design process when a construction license agreement is needed to construct a portion of the driveway outside of the State's Right of Way. The Engineer shall design the intersection by preventing the bottom of the vehicles to be wedged when accessing onto an adjacent property.
- L. Miscellaneous. The Engineer shall design all longitudinal barriers (railing and guardrail), raised median, fencing, bus bays, parking areas, mailboxes, and shoulder texturing in accordance with the criteria set forth in the roadway design manual and standards. Miscellaneous Details Sheet(s) may be developed to illustrate any necessary additional construction details not covered by the Standards. Standards that have not been approved for use in the Pharr District shall be signed, sealed, and dated by a Registered Professional Engineer in Texas for use as details. Approval shall be requested at the early stage of the plan preparation from the State/Authority regarding the use of these details. In addition, as part of the approval process, these details shall be accompanied by the appropriate general notes, special specifications, special provisions, and method of payment.

### DRAINAGE DESIGN (Function Code 161)

- A. Drainage Report. The Engineer shall design all of the project drainage elements and coordinate all drainage design.
  - 1. The **Engineer** will prepare a comprehensive drainage study and two reports for the project. The report for roadway elements shall be divided into two phases. The first phase will include the following items:

- Obtain existing HEC-2 models from applicable drainage authorities to the
  extent possible, for use in analysis and determination the existing 2, 5, 10, 25,
  50, 100 and 500 year (if available), water surface elevations at bayous, creeks,
  and ditch crossings along the project. This data will be utilized in the
  development of design roadway profiles.
- Profile of natural ground along each proposed grade line of the roadway.
- Profile of tentative proposed grade line of the roadway.
- Profile of existing roadway.
- Identify the existing drainage outfalls.
- Pump Station design if applicable
- 2. These profiles will be superimposed on a drawing along with the 2, 5, 10, 25, 50, 100 and 500-year (if available) water surface elevations. The profile drawing will provide an overall view of the roadway/existing ground elevations with respect to the various storm design frequencies for the length of the project. This will enable the State/Authority to determine the most feasible proposed roadway profile. These profiles must be submitted to the State/Authority and approved before continuing with the preparation of the comprehensive drainage report. NOTE: THE ENGINEER WILL COORDINATE WITH ALL GOVERNMENT AGENCIES THROUGH THE AUTHORITY.
- 3. Manhole headlosses are to be computed as per the State/Authority's direction. Also, GEOPAK Drainage with a pressure flow equation generally applicable to pipe running full flow. A hydraulic grade line starting at the outfall channel will be determined for each storm sewer system in order to obtain a design tailwater for each existing system. The design tailwater will be the starting basis for the design of the proposed storm sewer system.
- 4. For drainage areas, the Engineer will limit the outfalls into existing storm sewer to existing capacity flows, which will be determined by the Engineer. Alternate flow routes, if feasible, will be looked into for relieving storm sewer overload. The amount of the total detention storage to control storm sewer runoff for the design frequency will be determined, as well as a rough estimate of the available on-site volume. The method for handling the required off-site storage volume is not part of this scope.
- 5. Drainage areas and flows for cross culvert drainage systems will be determined as part of the comprehensive drainage report. Sizing of the drainage crossings and hydrologic information once determined will be provided to the **State/Authority**.
- 6. The Engineer will prepare a letter report which shall include the preliminary findings of the storm sewer capacities, requirement for line rerouting, preliminary detention storage volumes and initial recommendations on how to mitigate the storm impact on the receiving streams. The report will also include preliminary sizing of the trunkline for the proposed gravity storm sewer within the limits of the project, conceptual and generic discussions of the alternatives considered, a comparative cost associated with each alternative and a recommended solution.
- 7. Recommendations at this point should be generic and conceptual in nature, mainly for discussions with the **State/Authority** and the local government entities.

- 8. An impact analysis is required on the ditches as related the **State/Authority** and FEMA criteria 100-year storm. The **State/Authority** required approach for impact prediction is as follows:
  - Drainage areas for the existing and proposed conditions.
  - The Engineer will identify the existing drainage outfalls.
  - Compute right of way corridor 100-year flood plain volumes for existing and proposed roadway elevations. A decrease in 100-year flood plain volumes is not allowed by the State/Authority or other governmental agencies, without adequate offsite mitigation.
  - Compute existing and proposed peak flows by using hydraulics and hydrologic methodology and computer models. The additional lanes should be accounted for by increasing percent development.
  - Storage computations will be based on hydrograph calculations and peak flows obtained in the item above. A mitigation volume for the 100-year storm will be computed.
  - Analyze existing and proposed drainage system and quantify the increase in 100-year peak flows resulting from the roadway improvements.
  - Hand calculations shall be provided which quantify the cut and fill within the 100-year flood plain, if any occur.
  - Prepare conceptual 100-year sheet flow analysis for project utilizing existing and proposed conditions.
  - Obtain current hydrologic and hydraulic computer models from government agencies and review and comment on the models.
  - Current models will be updated to existing condition using the available State/Authority aerial photographs and submitted to governmental agencies as the revised existing condition model.
  - Analyze proposed roadway and outfall drainage improvements to quantify impacts top revised existing condition model.
- 9. At this point, a separate report (signed, sealed, and dated by a professional Engineer) including results will be summarized and presented to the State/Authority for discussion. If mitigation is needed, location of storage volume and/or approaches to satisfy government agencies is not a part of this scope. After the State/Authority has reviewed and approved the floodplain impact analysis report, the Engineer will be compensated 80 percent of the total task shown in the fee proposal for the work order. The remaining 20 percent will be paid after the other agencies involved have approved the report.
- 10. The **Engineer** will also be responsible for the second report which will include the Levee relocation analysis with respect to the USIBWC guidelines. This will be a separate report from the one above to include the results/impacts of the levee relocation. Coordination with USIBWC shall be documented in this report along with obtaining the appropriate license agreement from the agency.
- B. Scour Analysis to be provided at the bridge and bridge class culvert locations.
- C. Culvert, Pump Station and Storm Drain Design. The Engineer shall develop design details that minimize the interference with the passage of traffic or incur damage to the

highway and local property. The **Engineer** shall provide layouts, drainage area maps, and design of all drainage components. The **Engineer** shall design all conventional storm drainage and cross drainage in conformance with the

latest edition of the **State** *Hydraulic Manual* and any specific program guidance provided by the **State**. Storm drain design shall be performed using WinStorm or GEOPAK Drainage. Cross drainage design shall be performed using THYSYS, THYSYS CULVERT, HEC 2 or HEC RAS. The **Engineer** shall evaluate the hydraulic gradeline throughout the whole system, within project limits, for the design frequency(ies) and make necessary system adjustments for conformance to program criteria. The **Engineer** shall coordinate with the **State/Authority** and designers of adjacent projects to check that all proposed drainage systems accommodate the proposed construction phasing plan.

### The **Engineer** shall perform the following:

- 1. Prepare culvert cross sections.
- 2. Identify areas requiring trench protection, excavation, shoring and de-watering.
- 3. Prepare drainage area maps.
- 4. Prepare plan/profile sheets for storm drain systems and outfall ditches.
- 5. Select standard details from **State/Authority** or District's list of standards for items such as inlets, manholes, junction boxes and end treatment, etc.
- 6. Prepare details for pump station, non-standard inlets, manholes and junction boxes.
- 7. Prepare drainage details for outlet protection, outlet structures and utility accommodation structures.
- 8. Identify pipe strength requirements.
- 9. Prepare drainage facility quantity summaries.
- 10. Identify potential utility conflicts and design around them, wherever possible.
- 11. Take into consideration pedestrian facilities, utility impacts, driveway grades, retaining wall and concrete traffic barrier drainage impacts.
- 12. Identify existing ground elevation profiles at the ROW lines on storm sewer plan and profile sheets.
- 13. If applicable, prepare Hydraulic Data Sheets for Bridge Class Culvert(s).
- **D.** Storm Water Pollution Prevention Plans (SW3P). The Engineer shall minimize potential impact to receiving waterways. The SW3P shall include text describing the plan, quantities, type, phase and locations of erosion control devices and any required permanent erosion control measures.
- **E.** Temporary drainage facilities. The Engineer shall develop plans for all temporary drainage facilities necessary to allow staged construction of the project and to conform with the phasing of adjacent construction projects without significant impact to the hydraulic capacity of the area.
- F. Layout, Structural Design and Detailing of Drainage Features.

The **Engineer** shall perform layout, structural design and detailing for the following:

- 1. Culverts: New culverts; culvert replacement.
- 2. Storm Sewers: New or modified storm sewers; inlets; manholes; trunk lines.
- 3. Subsurface drainage at retaining walls.
- 4. Outfall channels within or outside of the existing ROW

5. Bridge deck drainage systems, including internal drainage piping within the bents where required on structures.

The **Engineer** shall use standard details where practical.

### SIGNING, MARKINGS AND SIGNALIZATION (Function Code 162)

A. Signing. The Engineer shall prepare drawings, specifications, and details for all signs. The Engineer shall coordinate with the State/Authority (and other Engineers as required) for overall temporary, interim, and final signing strategies and placement of signs outside contract limits. Sign detail sheets shall be prepared for large guide signs showing dimensions, lettering, shields, borders, corner radii, etc., and shall provide a summary of large and small signs. The Engineer shall also designate the shields to be attached to guide signs. The proposed signs shall be illustrated and numbered on plan sheets. Sign foundation shall be selected from State Standards.

The **Engineer** shall provide the following information on sign/pavement marking layouts:

- 1. Roadway layout.
- 2. Center line with station numbering.
- 3. ROW lines.
- 4. Designation of arrow used on exit direction signs.
- 5. Culverts and other structures that present a hazard to traffic.
- 6. Location of utilities.
- 7. Existing signs to remain, to be removed, or to be relocated.
- 8. Proposed signs (illustrated and numbered).
- 9. Existing overhead sign bridges to remain, to be revised, removed, or relocated.
- 10. Proposed overhead sign bridges, indicating location by plan.
- **B.** Pavement Markings. The Engineer shall detail permanent and temporary pavement markings and channelization devices on plan sheets. The Engineer shall coordinate with the State/Authority (and other Engineers as required) for overall temporary, interim, and final pavement marking strategies. Pavement markings shall be selected from the latest State/Authority standards.

The **Engineer** shall provide the following information on sign/pavement marking layouts:

- 1. Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation.
- 2. Quantities of existing pavement markings to be removed.
- 3. Proposed delineators and object markers.
- 4. The location of interchanges, mainlanes, grade separations, frontage roads and ramps.
- 5. The number of lanes in each section of proposed highway and the location of changes in numbers of lanes.
- 6. ROW limits.
- 7. Direction of traffic flow on all roadways.
- C. Traffic Signals. The Engineer shall identify and prepare Traffic Signal Plans for all traffic signal work needed. (Signals are currently planned for the Intersection of IH 69E and FM

3068.) If necessary, the **Engineer** shall perform Traffic Signal Warrant Studies to justify both existing and proposed signals, and provide traffic counts, to perform these studies. The **Engineer** shall confirm the power source for all signals and coordinate with the appropriate utility agency. Traffic Signal Plans shall be signed and sealed by a Texas Registered Professional Engineer. The **Engineer** shall develop all quantities, general notes, and specifications and incorporate appropriate agency standards required to complete construction.

The following information shall be provided in the Traffic Signal Plans:

- 1. Layout
  - a. Estimate and quantity sheet
    - (1) List of all bid items
    - (2) Bid item quantities
    - (3) Specification item number
    - (4) Paid item description and unit of measure
  - b. Basis of estimate sheet (list of materials)
  - c. General notes and specification data.
  - d. Condition diagram
    - (1) Highway and intersection design features
    - (2) Roadside development
    - (3) Traffic control including illumination
  - e. Plan sheet(s)
    - (1) Existing traffic control that will remain (signs and markings)
    - (2) Existing utilities
    - (3) Proposed highway improvements
    - (4) Proposed installation
    - (5) Proposed additional traffic controls
    - (6) Proposed illumination attached to signal poles.
  - f. Notes for plan layout
  - g. Phase sequence diagram(s)
    - (1) Signal locations
    - (2) Signal indications
    - (3) Phase diagram
    - (4) Signal sequence table
    - (5) Flashing operation (normal and emergency)
    - (6) Preemption operation (when applicable)
    - (7) Contact responsible Agency to obtain interval timing, cycle length and offset
  - h. Construction detail sheets(s)
    - (1) Poles (State standard sheets)
    - (2) Detectors
    - (3) Pull Box and conduit layout
    - (4) Controller Foundation standard sheet
  - Marking details (when applicable)
  - j. Aerial or underground interconnect details (when applicable)
- 2. General Requirements
  - a. Contact local utility company
    - (1) Confirm power source
  - b. Prepare governing specifications and special provisions list
  - c. Prepare project estimate

- d. Conduct traffic counts and prepare Traffic Signal Warrant Studies for all proposed and existing traffic signals.
- 3. Summary of Quantities
  - a. Small signs tabulation
  - b. Large signs tabulation including all guide signs
- 4. Sign Detail Sheets
  - a. All signs except route markers
  - b. Design details for large guide signs
  - c. Dimensioning (letters, shields, borders, etc.)
  - d. Designation of shields attached to guide signs

### MISCELLANEOUS (Function Code 163)

A. Retaining Walls/Sound Walls. The Engineer shall provide layouts (scale 1"=100"), elevations, quantity estimate, summary of quantities, typical cross sections, and structural details of all retaining walls within the project.

If applicable, architectural standard drawings will be provided by the **State/Authority** and shall be incorporated into design details. The specific requirements for each item are as follows:

- 1. Layout Plan
  - a) Designation of reference line
  - b) Beginning and ending retaining wall stations
  - c) Offset from reference line
  - d) Horizontal curve data
  - e) Total length of wall
  - f) Indicate face of wall
  - g) All wall dimensions and alignment relations (alignment data as necessary)
  - h) Soil core hole locations
- 2. Elevation:
  - a) Top of wall elevations
  - b) Existing and finished ground line elevations
  - c) Vertical limits of measurement for payment
  - d) Type, limits, and anchorage details of railing (only if Traffic Railing foundation standard is not being used on this project)
  - e) Top and bottom of wall profiles and soil core hole data plotted at correct station & elevation. Groundwater elevations shall be shown.
- 3. Foundation Studies: The Engineer shall coordinate with the State/Authority to determine the location of soil borings to be drilled along the retaining wall alignments. The core holes shall extend a minimum of 15 feet below the footing elevation or deeper as soil conditions warrant. Spacing of core holes shall not exceed 500 feet. The Engineer shall provide a boring layout for the State/Authority to review and provide their recommendations.

- 4. The **Engineer** shall incorporate soil core hole data sheets prepared, signed, sealed, and dated by the Engineer. The soil boring sheets shall be in accordance with TxDOT WINCORE software as can be found on the Texas Department of Transportation website.
- 5. General Guidelines for Retaining Walls
  - a) The Engineer shall make final design calculation and final detail drawings in accordance with standard requirements of the State/Authority.
  - b) For retaining walls that the total estimated project quantity exceeds 30,000 square feet, preliminary retaining wall layouts shall be submitted to Austin Division for approval.
- B. Traffic Control Plan, Detours and Sequence of Construction. The Engineer shall prepare Traffic Control Plans (TCP) for the project. A detailed TCP shall be developed in accordance with the latest edition of the *Texas Manual on Uniform Traffic Control Devices for Streets and Highways* (Texas MUTCD). The Engineer is to implement the current Barricade and Construction (BC) standards as applicable. The Engineer shall interface and coordinate phases of work, including the TCP, with adjacent Engineers.
  - 1. The **Engineer** shall provide a written narrative of the construction sequencing and work activities per phase and determine the existing and proposed traffic control devices (regulatory signs, warning signs, guide signs, route markers, construction pavement markings, barricades, flag personnel, temporary traffic signals, etc.) to be used to handle traffic during each construction sequence. The **Engineer** shall show proposed traffic control devices at grade intersections during each construction phase (stop signs, flag person, signals, etc.). The **Engineer** shall show temporary roadways, ramps, structures, and detours required to maintain lane continuity throughout the construction phasing.
  - 2. Where detours are required, the **Engineer** shall develop typical cross sections, calculate quantities, and show horizontal and vertical alignment (if necessary) information. The **Engineer** shall provide a detailed layout and arrangement of construction signs, construction pavement marking, traffic control devices (including temporary signals and signal heads).
  - 3. The **Engineer** shall be responsible to coordinate with the **State/Authority** in scheduling a Traffic Control Workshop and submittal of the TCP for Safety Review Committee (SRC) approval. The **Engineer** shall assist the **State/Authority** in coordinating mitigation of impacts to adjacent schools, emergency vehicles, pedestrians, bicyclists, and neighborhoods.
  - 4. Continuous, safe access to all properties during all phases of construction is mandatory. The **Engineer** shall develop TCP to preserve existing curb cuts. Approval from the **State/Authority** is required for any elimination of existing access capacity.
  - 5. The Engineer shall design temporary drainage to replace existing drainage disturbed by construction activities or to drain detour pavement. The Engineer shall show horizontal and vertical location of culverts and required cross sectional area of culverts.

- C. Illumination. The Engineer shall provide safety lighting at all intersections and interchanges, as well as at all other locations identified by the State/Authority. The Engineer shall prepare exhibits as required to obtain agreements with adjacent municipalities. The Engineer shall tabulate all quantities and provide summary sheets.
- **D. Estimate.** The **Engineer** shall independently develop and report quantities in standard **State/Authority** bid format at the 60%, 90% and Final PS&E submittals. The **Engineer** shall identify and report quantity variances by means of a quantity variance report, to be provided with each submittal. The **Engineer** shall be prepared the estimate at the 60%, 90%, 95% and Final PS&E submittals.
- **E.** Specifications. The Engineer shall develop the list of standard specifications with the appropriate reference items the estimate. The Engineer shall also identify the need for any special specifications, and special provisions. The Engineer shall prepare General Notes from the Pharr District's *Master List of General Notes*, Special Specifications and Special Provisions for inclusion in the plans and bidding documents. The Engineer shall provide General Notes, Special Specifications and Special Provisions in rich text format.
- F. Construction Schedule. The Engineer shall prepare a construction contract time schedule using the latest version of Primavera or SureTrak software in accordance with the State's Administrative Circular No. 17-93. The schedule shall indicate tasks, subtasks, critical dates, milestones, deliverables, and review requirements in a format which depicts the interdependence of the various items, and adjacent construction packages. The Engineer shall aid the State/Authority in interpreting the schedule.
- G. Bidding services. The Engineer will provide the contract proposal/upfront bidding documents.

## PROJECT MANAGEMENT (Function Code 164)

- A. The **Engineer** will continue to coordinate with **AUTHORITY** staff, local municipal agencies, and utility companies.
- B. The **Engineer** will develop geometric and design criteria to establish uniform practices to be followed. Assemble existing TxDOT standard plans and prepare supplemental details for use as standard or guide plans for pavement, drainage, structures, traffic interchange facilities, traffic control, and other necessary appurtenances, all subject to the approval of the Authority.
- C. The **Engineer** will provide the **Authority** with monthly reports of progress and a summary of key decisions that have been made or need to be made.
- D. The **Engineer** will recommend approved designs, plans, and specifications and deliver to the **Authority** for bid advertisement. Assist the **Authority** in the process of bidding and award of construction contracts. Prepare final estimates of construction costs prior to the opening of construction bids.
- E. Professional engineers' seals shall conform to the guidelines and regulations adopted by the Texas Board of Professional Engineers.

## **BRIDGE DESIGN** (Function Code 170)

All bridge structures shall be designed for **LRFD** guidelines.

A. Bridge Layout. The Engineer shall Prepare Bridge Layout plans and elevations for all bridge types listed below in accordance with the latest edition of the State's Bridge Design Manual, Bridge Project Development Manual and Bridge Detailing Manual. Submit to the State/Authority for approval before proceeding to structural detail design. Coordinate with the State/Authority to determine the location of soil borings to be drilled by the Engineer.

The Bridge layouts in Plan View shall contain the following information:

- 1. Horizontal curve information or bearing of centerline
- 2. Including horizontal, vertical and template information of all roadways or railroads crossed
- 3. Bearing of centerline or reference line
- 4. Skew angle(s)
- 5. Slope for header banks and approach fills
- 6. Control stations at beginning and ending of bridge (with deck elevation)
- 7. Approach pavement and crown width
- 8. Bridge roadway width and curbs, face of rail, shoulders, or sidewalks
- 9. Approach slab and curb returns
- 10. Limits and type of riprap
- 11. Proposed features under structure
- 12. Location of profile grade line
- 13. North Arrow
- 14. Typical bridge roadway section including preliminary proposed beam types and spacings.
- 15. Cross slope and superelevation data
- 16. Minimum horizontal and vertical clearance
- 17. Location of soil core holes (station and offset)
- 18. Bent stations and bearings
- 19. Retaining wall locations
- 20. Traffic flow directional arrows
- 21. Railing types shown
- 22. Joint types and seal size, if used
- 23. Beam line numbers consistent with span details
- 24. Critical horizontal clearances (location of railroad tracks, nearby structures, and utilities)

Bridge Layouts in Elevation View should contain the following:

- 1. Type of foundation
- 2. Finished grade elevations at beginning and end of bridge
- 3. Overall length of structure
- 4. Length, type of spans and units
- 5. Type of railing
- 6. Minimum calculated vertical clearance(s)
- 7. Existing and proposed ground lines clearly marked
- 8. Grid elevations and stations

- 9. Bent numbers encircled
- 10. Standard Title
- 11. Profile grade data
- 12. Type of riprap
- 13. Soil Core Hole information with penetrometer test data
- 14. Fixed/expansion condition of all bents
- 15. Column "H" heights
- 16. Number, size, and length of foundations

Additional layout requirements for waterway structures and bridge classification culverts:

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

The substructure for simple span prestressed concrete U-beam girders shall be inverted T beam caps on rectangular columns. If necessary, the **State/Authority** will provide standard architectural details. The **Engineer** shall incorporate these drawings and make appropriate reference to these details.

The **Engineer** shall develop bridge layouts from the schematic provided by the **State/Authority** and submit an 80% complete layout to the **State/Authority** at the 30% submittal to provide ample review and design time.

- B. Final Design Calculations and Details. The Engineer shall make final design calculations and final detail drawings, per structure, in accordance with standard requirements of the State/Authority. All bridge design shall be in conformance with the latest edition of the State's Bridge Design Manual, Bridge Project Development Manual, Bridge Detailing Manual, and AASHTO Standard Specifications for Highway Bridges. The Engineer's designer and checker shall both check all calculations and initial each page. The Engineer shall submit for review all structural design calculations and quantity calculations at the 90% submittal.
- C. The Engineer shall perform a global stability analysis on fill areas on bridge approaches and other areas where the height of fill is determined to be greater than 15 feet. No geotechnical investigations are to be initiated until the State/Authority has given the Engineer written approval. The Engineer shall prepare an engineering report showing all material testing locations, with a summary of all geotechnical investigations, project background, and a summary of recommendations.
- D. Bridges/Overpasses/Underpasses/Ramp Structures.

The **Engineer** shall prepare *bridge layouts, typical sections, structural details* (with appropriate scale) and estimated quantities for structures, as listed below:

Description	Approx Length	Approx. Width	Number of spans	Comments
Elevated Canal Crossing	100	80	1	New Bridge facilitated at the Tie in Realignment
SH 4 Overpass	272	80	3	80-112-80 Span Configuration

- **E. Bridge Classification Culvert.** The **Engineer** shall prepare layouts, typical sections, structural details (with appropriate scale) and estimated quantities.
- **F. Staged Construction:** The **Engineer** shall review and evaluate the need for phased construction for all structures in the project limits and advise the **State/Authority** of their recommendations. The **Engineer** shall review the as-builts and perform any necessary analysis to determine the structural integrity of any part of the structure that would remain open to traffic.

## **CONSTRUCTION PHASE SERVICES** (Function Code 309)

The **Engineer** shall provide Construction Phase Services. These services shall include, but are not limited to the following:

### **Pre- Construction Award**

The **Engineer** shall assist the **Authority** with the following:

- (1) Pre-bid RFI's
- (2) Pre-bid Conference
- (3) Bid Opening
- (4) Bid Tabulation & Review

## **Post - Construction Award**

- (1) Upon Award of Contract coordinate and attend Pre-Construction Meeting.
- (2) Answer Construction RFI's.
- (3) **Shop Drawings.** The Engineer shall review and check all shop or working drawings furnished by the Contractor that are related to the Project. Below is the listing of the proposed drawings to be reviewed.

## Elevated Canal Bridge

- Abutments
- Girders
- Footings
- Rail

- Slab and Framing
- Falsework

## SH 4 Overpass Bridge

- Abutments
- Girders
- Footings
- Rail
- Slab and Framing
- Falsework

## Culverts

- Pre-Cast Culverts
- Pre-Cast Inlets

## Large Guide Signs

- Foundations
- Frames
- (4) Change Orders. When applicable, the Engineer will prepare the engineering data, including plan sheet drawings, specifications, and estimates, for the preparation of construction contract change orders, which may be required due to actual field conditions encountered or new requirements directed by the Owner. This work will be handled through a supplemental work order.

## **DELIVERABLES**

- **I. Hydraulic Deliverables.** The **Engineer** shall submit the two Hydraulic Reports signed and sealed by a Registered Professional Engineer in the State of Texas.
- **II.** Survey Deliverables. The Engineer shall submit, after completion of PS&E, all original field books containing all survey information requested for this work authorization. The field book shall contain all information gathered in the field. The survey information provided shall be to the surveyor's best knowledge, accurate, and complete.

Electronic files (\*.txt) containing survey information with proper identification and with the following data format x, y, and z NAD-83 coordinate system. The x-coordinate corresponding to the east bearing, the y-coordinate corresponding to the north bearing, and the z-coordinate corresponding to the vertical elevation.

Electronic 2d and 3d Microstation files (\*.dgn) containing survey information with proper identification and with the following data format x, y, and z NAD-83 coordinate system. The Survey deliverables shall include the digital terrain model (DTM), aerial maps, and Subsurface Utility Engineering (SUE).

**III. Geotechnical Deliverables.** The **Engineer** shall submit the Geotechnical Reports signed and sealed by a Registered Professional Engineer in the State of Texas.

Each USB shall be labeled and include the following:

- CSJ
- County
- Highway

Each USB created shall have the standard directory structure, as follows:

Directory:\Control-Section - Job Number

Types of Data

Documents

Geotechnical Report, Summaries, General Project

Correspondence, and Excel files.

Utilities

Existing utility information as provided by the

affected utility company including

correspondence.

**IV.** Plan Deliverables including 3D Corridor model. The Engineer shall forward to the State/Authority, upon completion of the work authorization, four (4) sets of Memory Sticks with all the files containing the information and layouts used to prepare the PS&E.

Each CD shall be labeled and include the following:

- CSJ
- County
- Highway
- Date of the CD Burn
- INTERIM (in 1" letters) Note: As-built shall specified FINAL
- Volume sequence (ie. Disk 1 of 3)

Each CD created shall have the standard directory structure, as follows:

Directory:\Control-Section - Job Number

Types of Data

**Documents** 

Form 1002, Design Summary Report (DSR), Design Exceptions/ Variances, Traffic Control Safety Review Approval Form, Hydraulic Report, Geotechnical

Report, Summaries, General Project

Correspondence, and Excel files.

Schematic

All .DGN files – Mapping, Sheet Files, Master Design Files, dat files .gpk files, .prj files, design cross section

files, etc.

Environmental

Environmental documentation can include but not

limited to Categorical Exclusion (CE), Environmental Assessment (EA),

Environmental Impact Statement (EIS), noise analysis and Water Pollution Abatement Plans.

Utilities

Existing utility information as provided by the

affected utility company including

correspondence.

ROW Maps and Parcel sketches as furnished

By surveyor

Design All .DGN files – Mapping, Sheet

Files, Master Design Files, dat files .gpk files, .prj files, design cross section

files, etc.

Hydraulics Drainage Input & Output Culvert

Analysis, Bridge Analysis

Electrical input and output files, correspondence,

everything except .dgn files

Signing Signing input and output files,

correspondence,

everything except .dgn files

Standards All Standard Sheets used for the Job

Construction Field change documentation except for .dgn files.

A "readme" file should be created and placed under the "documents" subdirectory. The readme file should be composed of the minimum directory structure detailed above and modified to list particular files that are contained under the various subdirectories. This information will guide the end user to the location of particular files. In addition to the file information, the readme file should contain the general project information such as the CSJ, Limits of Construction and Type of Improvements.

All CADDSEALS placed on finished documents are to remain on that document. Do Not remove CADDSEALS.

The file naming convention will be as shown below. Not all plan sets will have all of the listed sheets.

Sheet File Type Naming Convention

Title Sheet \*TTL\*.DGN
Supplemental Index \*INDX\*.DGN
General Notes & Spec. Data \*GNOT\*.DGN
Estimate & Quantities \*E&Q\*.DGN
Consolidated Summaries \*SUM\*.DGN
Project Layout \*PRJLO\*.DGN
Typical Sections \*TYP\*.DGN
Traffic Control Plans \*TCP\*.DGN
Horizontal Alignment Data \*HAD\*.DGN
Benchmark Data \*BM\*.DGN
Table of Cross Slopes \*CS\*.DGN
Plan & Profile Sheets \*PP\*.DGN
Landscape Sheets \*LAND\*.DGN

Irrigation Sheets \*IRRI\*.DGN Detail Sheets (any) \*DET\*.DGN Drainage Area Maps \*DA\*.DGN Hydraulic Data Sheets \*HD\*.DGN Storm Sewer Plan & Profiles \*SS\*.DGN Culvert Cross Sections \*CUL\*.DGN Water Quality Facilities \*WQ\*.DGN Retaining Wall Sheets \*RET\*.DGN Bridge Layouts \*BR\*.DGN Bridge Quantities/Bearing Seat Info \*BRQUAN\*.DGN SW3P Info Sheet \*SW3P\*.DGN Erosion Control (Temp & Perm) \*EC\*.DGN Signing Layouts \*SIGN\*.DGN Pavement Markers (incl. Delineation) \*PMLO\*.DGN Signalization Sheets \*SIG\*.DGN (includes electrical service sheets) Illumination Sheets \*ILLI\*.DGN Roadway Cross Sections \*XS.DGN Master Design File \*MDF.DGN Alignment File \*ALN\*.DGN

Where an \* (wildcard) appears in the filename, the user is free to describe the file as they see fit as long as the required letters appear in the filename somewhere.

The Engineer shall submit a CADD file structure listing in spreadsheet format. This CADD file structure shall consist of the following fields of information for each design file created to produce the final plan sheets for PS&E:

Active Design File Name (xxx.dgn)
Levels ON (1-63)
Plot Scale (1" = 100')
File date (Nov. 30, 2004)
File size (xxx bytes or KB)
Sheet Number (202)
Sheet Description (Typical Sections, Sheet 3 of 4)

## Reference file names

Logical Name of Reference files (xxxdrn.dgn) Levels ON (1-2, 5-17, 36-45, 50-63)

In addition, the Engineer shall include on the staple side of the sheet border (left side) by the use of a pen table the reference file information listed above for each reference file attached, i.e., Reference file name (xx.dgn), Levels ON, when this particular file is attached as a reference to the Active design file.

On the lower right-hand side, next to the title block, in a 90-degree orientation to the bottom of the sheet, also by the use of a pen table, the file name of the design file and date shall be shown when printed.

V. PS&E Deliverables. The Engineer shall deliver to the Authority an electronic copy of the 30%, 60%, and 90% submittals. For the final 100% submittal, the Engineer shall submit one electronically sealed plan portfolio with all backup data. The Engineer shall develop Exhibit C, Work Schedule for all project submissions.

## 30% Submittal -

- a. Approved (signed form) Design Summary Report
- b. Title Sheet
- c. Typical Sections (existing and proposed)
- d. Traffic Control Plan
- e. Utility Layout (conflicts identified)
- f. Plan & Profile (Roadway and Levee)
  - 1. Vertical Alignment (existing and proposed)
  - 2. Horizontal Alignment (existing and proposed)
- g. Bridge Layouts (including bridge class structures)
- h. Miscellaneous Details (including Border Fence Relocation)
- i. Corresponding Quantity Summary Sheets
- j. Corresponding Standard Detail Sheets for all Items of Work in this submittal
- k. Preliminary Estimate
- I. Design Exceptions/Waivers required
- m. Newly created Special Provisions/Specifications to be used (Form 1814)
- n. R.O.W. (issues identified)
- o. Electronic Copy of Cross Sections

### 60% Submittal -

- a. Index Sheet
- b. Hydrologic Computation Sheets
- c. Hydraulic Data Sheets
- d. Drainage Area Maps
- e. Drainage Plan & Profile
- f. Pump Station Layouts/Details
- g. Drainage Structure Details
- h. Storm Sewer Details
- i. Storm Water Pollution Prevention Plan
- j. Bridge Details
- k. Retaining Walls Sound Walls
- I. Miscellaneous Details
- m. Corresponding Quantity Summary Sheets
- n. Corresponding Standard Detail Sheets for all Items of Work in this submittal
- o. Updated Estimate
- p. Utility Adjustment/Relocation Details
- q. R.O.W. Acquisition Detail
- r. Electronic Copy of Cross Sections

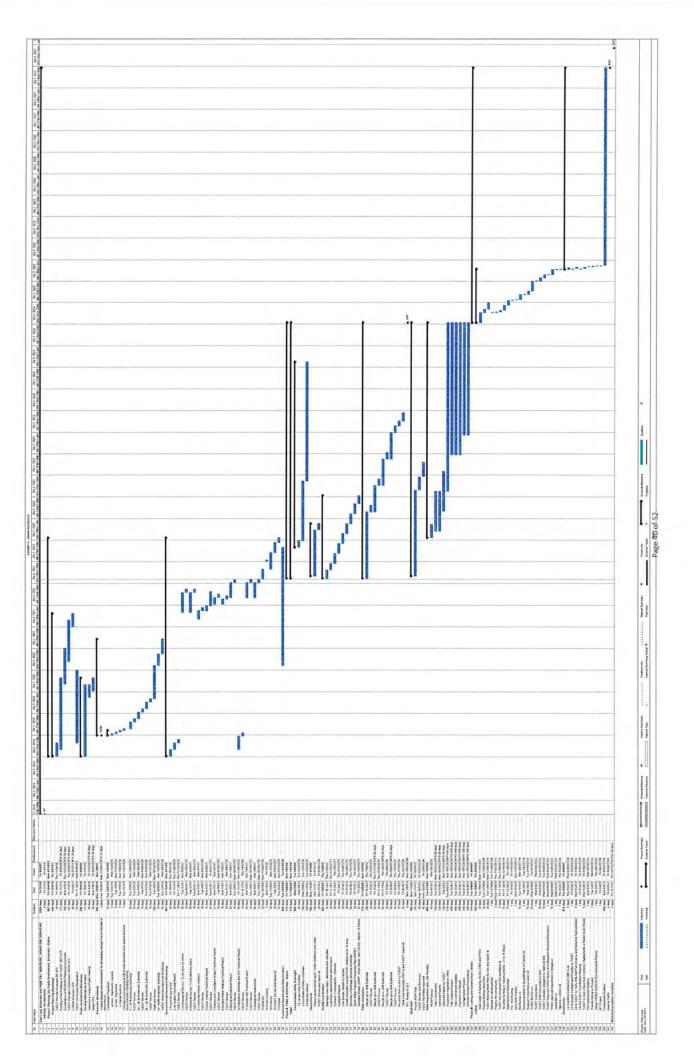
## 90% Submittal -

- a. Final Index of Sheets
- b. Pavement Marking Layout/Details
- c. Signalization (existing and proposed)
- d. Illumination
- e. Traffic Management Items
- f. Miscellaneous Details

- g. Corresponding Quantity Summary Sheets
- h. Corresponding Standard Detail Sheets for all Items of Work in this submittal
- i. Final Estimate
- j. General Notes
- k. Certifications
- l. Form 1002
- m. Cross Sections

## 100% Submittal -

- a. PS&E Package 100% complete.
- g. Six Months prior to letting.
- c. Construction Estimate in Estimator® format and Excel format
- d. Form 1002
- e. General Notes
- f. Special Specifications and Special Provisions with a completed Form 1814 in TxDOT format
  - (2) each signed and sealed Specification Certifications
- g. Utility, ROW Encroachment, ROW Acquisition, ROW Relocation Certification) originals of each signed and sealed.
- i. Special Specifications, Special Provisions and applicable reference items to all items involved in the PS&E in Excel spreadsheet format
- j. Construction CPM Schedule (Signed and Sealed)
- k. Cross Sections



10/18/21	Story S	TOTALS						\$755,125,68		\$18,696.92			\$650,185.80			\$131,409.20						\$827,259.06											\$1,020,109.88	
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Page 41 of 52

10/18/2021

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	Engineer in Training	40	340	88 32 16 16 16 100 100 180	8 8 8 120 120 120 120 120 110 1110 1110	40 4 4 1,254		0	89 87 87	24 24 88	φ (α)
	3-Man Survey Crew		0			0		0	0		
	Engineer (I,II)	88	180	8 8		140		0	0		
	Engineer (V)	36 44 444 20	226		40 40 40 40 40 30 30 36 48 48	16 4 4 16 618	60 60 40 40 120	320	84 4 28	\$ \$ \$ \$ \$ \$ \$	
	Engineer		0	40 40 80 80 80 80 80 80 80 80 80 80 80 80 80		180	80 48 12 16 16 16 16 16 16	24	40		Ø Ø 4 0
	RPLS		0			0		0	0		
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	pal Quality Manager		0			0		0	640		
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X x Cameron U2716.222	DESCRIPTION from Attachment B	Summany of Lands Seger Tatashation Sign Deals Sheets & Sandshation Compute & Tabulato Quantities Signaturation (See ETS) Cost Proposal) Signaturation (See ETS) Cost Proposal Figure Counts and Signal Warrants (See ETS) Cost Proposal)	Sub Total (182 - SIGNING, MARKINGS AND SIGNALIZATION)	MISCELLARDOUS ROADWAY Sound Walls Sondural Doblise Sinculural Doblise Alternate Patential Retaining Walls Foundation Studies Sammany of Quantities Typical A Section. Samy Control Shoels Traffic Control Plan.	Cooptination with a register LQP injoins for TACO I reverse Illumination Layous Compute and Tababase Countilies for Reveland Limits Special Unity Datalis (Water, Sanitary Sever, etc.) Estimates Special Unity Datalis (Water, Sanitary Sever, etc.) Estimates Special Unity Datalis (Water, Sanitary Sever, etc.) Estimates Special Unity Agreements Forger Construction Time Schedule Proper Construction Time Schedule Proper Construction Time Schedule Proper Construction Time Schedule Research Votes Research Votes Forger Construction Time Schedule Forger Construction Time Schedule Research Votes Research Votes Forger Construction Time Schedule Forger Cons	Strongs and decopit Files ) Short and decopit Files ) ADA/TDLR Coordination ADA Nen-Standard Details TDLR Cost Justification/Comparisons Sub Total (163 - MISCELLANEOUS ROADWAY)	BRIDGE DESIGN  New Structure(s) Structural Details  Proparation of Bripge Layoute (Two Bridges)  Bedgor Class Curk Houchts  Bridgo Class Curk Potels  Bridgo Class Curk Potels  Bridgo Class Curk Potels  Bridgo Class Curk Potels  Bridgo Class Curk Conformate & Charattice  Bridgo Class Curk Potels  Bridgo Class Curk Potels  Bridgo Cannalation Design  Bridgo Total Chamitiles and Cost Estimates (carch tridge)	Bridge Special Provisions and Specifications (each bridge) Bearing seat elevations for each beam or grider. Sub Total (110 - BRIDGE DESIGN)	GENERAL COORDINATION Project Manage (Pro) Coord/4 HES/WK/ Project Manage Workshy Moderny (Prop. Res) Project Manage Workshy Moderny (Prop. Res) Project Manage Workshy Moderny (Prop. Res) Project Socretary (CL. 50% 67%, 100% Submittals) Project Socretary (CL. ENLINITIES Project Socretary (CL. ENLINITIES Project Socretary (CL. ERICAL (4 Ira/week) Sub Total (164 - GENERAL COORDINATION)	CONSTRUCTION PHASE SERVICES CONSTRUCTION BIDDING RFIS/Addistroums FINE SERVICES FOR Bid CONFIDENCE Bid Copening Bid Tabulation/Recommendation of Award DUNING CONSTRUCTION Altand Preconstruction Media Sign Bridges Sign Bridges Sign Bridges Concrete Mix Design	Hot Mix Design (Bond Breaker) Comail Bridge Presistessed Concrete (Beams Design Presistessed Concrete (Beams Detail Beaming Paus Pensistessed Concrete (I Beams Detail Beaming Paus
COUNTY:	FUNCTION		Ş	292			170		164	350	
SS	CODE										

8/21		TOTALS							\$50,925.20	\$4,969,278.20										\$32,381.18		SE 004 REG 28
10/82	ESTIMATED	<b>3</b>		\$2.301.28	\$2,301,28	\$1,320.64	\$2,301.28	\$2,301.28						\$5.600.00	\$2.450.00	\$834.60	\$1.872.50	\$21,600.00	\$24.08		\$32,381,18 3,384,691.00 1,616,968.38	
1		TOTAL		10	10	9	10	10	285	22.073		П									vs vs	
		Secretary	l	+	1	+	-	1	26	288		17.23				0.535	0.535	120.000	0.535			
		CADD S Operator							12	1.092	100.00	26.51				(S/mi )= S		Lodging w taxes \$	s (\$/mi.)= \$			
		Senior	İ						0	5.026	115.00	30.49				Milace Rate (\$/mi.)≡	Milage Rate (\$/mi	Lodgin	Milage Rate (\$/mi.)=			
		Engineer in Training							76	5.270	85.00	22.54										
		3-Man E Survey Crew T	l	I					0	280	188.59	20.00					İ					
		Engineer (I,II)			l				0	2,572	169.73	45.00					l					
		Engineer E	l						99	3,713	224.98	29.62										
		Engineer E		80	8	4	80	80	72	672	245.16	65.00										
		RPLS							0	120	214.99	22.00										
	MAN-HOURS	Env	l						0	0	110.00	29.17	T			13	10	60	2			
	MAN-H	Env Manager S	l						0	128	185.00	49.05				Trios =	_ = Lips	Persons ==	Trips =			
		Project Manager N			-		1	•	33	1,908	275.00	72.91					350 Tri					
		Quality I							0	640	249.99	66.28				ne per trip ==	te per trip =	"styling	e per trip =			
IMATE			ı						0	0	299.96	79.53				Mileage	Mileage		Mileage			
. FEE EST		SERVICE Principal	SPECIAL	SPECIAL	SPECIAL	SPECIAL	SPECIAL	SPECIAL		П				SPECIAL	SPECIAL	SPECIAL	SPECIAL	SPECIAL	SPECIAL			
EXHIBIT D FEE ESTIMATE		FIRM	S&B		T	T		S&B		MULTIPLIER	3,7717			S&B	S&B	80 80	t		S&B			
East Loop PS&E, Gao & Utilities CCRMA GEC Contract X Cameron U3716.2222		DESCRIPTION from Attachment B	SH 4 Overpass	Prestressed Concrete I Beams Design	Prestressed Concrete I Beams Detail	Bearing Pads	Prestressed Concrete Layout	Bridge Railing	Sub Total (350 - CONSTRUCTION PHASE SERVICES)	LABOR TOTALS Total Hours	CONTRACT RATES: (\$/MAN-HOUR)	BASE RATES: (\$MAN-HOUR)	NON LABOR	@		Dr.	age During Plan Development (Survey)		5 Meetings	Sub Total (F.C. 160)	NON LABOR TOTAL BASIC SERVICE TOTAL SPECIAL SERVICE TOTAL	BBO JECT TOTAL
PROJECT: CLIENT: CONTRACT: CSJ: COUNTY: S & B JOB NO.:		CODE									L		160									
න්		CODE															Ī					

10/18/2021

## Exhibit D Consultant Cost Proposal



Civil and Environmental Engineers, Scientists and Construction Managers TBPE Firm No. F-4126 TBPLS Reg. No. 10005300

April 21, 2020 Revised September 9, 2020

Mr. Phillip J. Pawelek, P.E. S&B Infrastructure, Ltd. 5408 North 10<sup>th</sup> Street McAllen, Texas 78504

RE: Utility Conflicts at East Loop Project

Proposal No. 6136.0420

Dear Mr. Pawelek:

Ambiotec Group, Inc. (Engineer) is pleased to submit this proposal for professional engineering services for the above referenced project. The scope of services, schedule and compensation are presented below.

## Design

This includes the site survey, running a bench loop to the site for topography and coordinating for utilities

1.	Engineer	62 hrs x \$106.28	= \$ 6,589.36
2.	Senior CADD Operator	80 hrs x \$ 44.02	= \$ 3,521.60
3.	Administrative Clerk	57 hrs x \$ 41.60	= \$ 2,348.40

## **Total Engineering**

\$12,459.36 per utility conflict

For purposes of this proposal, I'm taking into account approximately 35 utility conflicts.

35 Utility conflicts x \$12,459.36 per utility conflict = **\$436,077.60** 

## FEE SCHEDULE **EXHIBIT D**

# Geotechnical Engineering, Report & Summary



B2Z Engineering

TASK  TASK  TASK  TASK  A Boring Locates and Utility Clearance  AA Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific,  Pavement Design  Pavement Design Report (including Pavement Geo Report)  TW Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Wheetings, Conf Call, Invoice, Progress Reports, Admin, etc.  Client:  S&B Infrastucture, LTD  Broilect  Broi		Geotechnical Engineer (Eng	Project	a in a contract of			
Project Management and Review - Field Operation Oversight  Boring Locates and Utility Clearance Field Exploration - Field Logging for Soil Borings  Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific, Pavement Subgrade Stabilization Analysis & Recommendations  Rigid Pavement Design Pavement Design Report (including Pavement Geo Report)  Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Large Signs Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Meetings, Corf Call, Invoice, Progress Reports, Admin, etc.  20	8	5	Engineer (Eng Engineer (Eng V)	Tech (EIT)	CADD Operator	CADD Operator Admin/Clerical	Total
Project Management and Review - Field Operation Oversight  Boring Locates and Utility Clearance Field Exploration - Field Logging for Soil Borings  Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific.  Pavement Subgrade Stabilization Analysis & Recommendations Rigid Pavement Design Pavement Design Report (including Pavement Geo Report)  Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Large Signs Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Meetings, Corf Call, Invoice, Progress Reports, Admin, etc.	8						
Project Management and Review - Field Operation Oversight  Boring Locates and Utility Clearance Field Exploration - Field Logging for Soil Borings Liab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific. Pavement Subjiration Analysis & Recommendations Rigid Pavement Design Pavement Material Recommendations Pavement Design Report (including Pavement Geo Report) Noise Wall Memo - Misc Analysis for Large Signs (Recs for Design) Large Signs Memo - Misc Analysis for Large Signs (Recs for Design) Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.	8						
Boring Locates and Utility Clearance Field Exploration - Field Logging for Soil Borings Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific.  Pavement Subgrade Stabilization Analysis & Recommendations Rigid Pavement Design Pavement Material Recommendations Pavement Design Report (including Pavement Geo Report) Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters) Large Signs Memo - Misc Analyses for Large Signs (Recs for Design) Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.			12				20
Field Exploration - Field Logging for Soil Borings  Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific.  Pavement Subgrade Stabilization Analysis & Recommendations Rigid Pavement Design Pavement Material Recommendations Pavement Material Recommendations Pavement Design Report (including Pavement Geo Report) Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters) Large Signs Memo - Misc Analyses for Large Signs (Recs for Design) Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.				16			16
Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific.  Pavement Subgrade Stabilization Analysis & Recommendations Rigid Pavement Design Pavement Material Recommendations Pavement Material Recommendations Pavement Material Recommendations Pavement Design Report (including Pavement Geo Report) Poise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters) Large Signs Memo - Misc Analyses (Deep Foundation & L-Pile Parameters) Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.				184			184
Pavement Subgrade Stabilization Analysis & Recommendations Rigid Pavement Design Pavement Material Recommendations Pavement Material Recommendations Pavement Material Report (including Pavement Geo Report) Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters) Large Signs Memo - Misc Analysis for Large Signs (Recs for Design) Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.	nm, Soil Classific.			94			94
Rigid Pavement Design Pavement Material Recommendations Pavement Material Recommendations Pavement Design Report (including Pavement Geo Report) Noise Wall Menno - Misc Analyses (Deep Foundation & L-Pile Parameters) Large Signs Menno - Misc Analysis for Large Signs (Recs for Design) Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.  20	S	8	32				40
Pavement Material Recommendations Pavement Design Report (including Pavement Geo Report) Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters) Large Signs Memo - Misc Analysis for Large Signs (Recs for Design) Meetings, Corf Call, Invoice, Progress Reports, Admin, etc.		20	72				92
Pavement Design Report (including Pavement Geo Report)  Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Large Signs Memo - Misc Analysis for Large Signs (Recs for Design)  Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.		80	16				24
Noise Wall Memo - Misc Analyses (Deep Foundation & L-Pile Parameters)  Large Signs Memo - Misc Analysis for Large Signs (Recs for Design)  Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.	12	20	54		16	20	122
Large Signs Memo - Misc Analysis for Large Signs (Recs for Design)  Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.	Parameters)	10	24		4	4	42
Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.	(lesign)	4	24		4	4	36
		9	9			8	40
			A 100 A 100 A				
Subtotal 40 76	40	92	240	294	24	36	710
Labor Hours 40 76	40	92	240	294	24	36	710
s		s	\$ 149.30	\$ 84.76	\$ 74.65	\$ 64.54	
Total Labor Costs   \$ 9,206,80   \$ 14,			\$ 35,832.00	\$ 24,919.44 \$	\$ 1,791.60 \$	2,323.44	\$ 88,729.12

LINE ITEM EXPENSES
Printing Reproduction (N/A - Electronic Submittal Only)
\*B2Z Engineering (Sub-Total for Geo. Field & Lab Services)
\* - (Please see page 2, for detailed estimates of testing)

**B2Z Total Cost** 

\$ 292,052.72

\$ 203,323.60

\$ 203,323.60



## EXHIBIT D Geotechnical Field and Laboratory Services East Loop Project Prepared for S&B Infrastructure, LTD

	SERVICES	UNITS	UNITS	UNIT COST	1	OTAL COST
I.	Project Management / Review					
II.	Utility Clearances / Boring Locates					
	B. Mileage	Mile	160	\$ 0.54	\$	86.40
III.	Field Exploration					
Α	Mobilization/Demobilization (Drill Rig)	Mile	1840	\$ 5.00	\$	9,200.00
В	Field Exploration					
	1. Soil Boring/Rock Coring w TCP (< 60 ft.)	LF	1700	\$ 36.00	\$	61,200.00
	1A. Backfilling Boreholes Bentonite Plug	LF	1700	\$ 10.00	\$	17,000.00
	3. Supp. Vehicle-Trailer, Tools Water Supply	Mile	1840	\$ 0.54	\$	993.60
	4. Vehicle Charge	Mile	1840	\$ 0.54	\$	993.60
	5. Traffic Control Services (Med Project)	Day	10	\$ 2,500.00	\$	25,000.00
С	Miscellaneous Field Services					
IV.	Engineering Data Analysis / Report					
	Prep Soil for Testing (Tex-101-E)	Ea.	263	\$ 70.00	\$	18,410.00
	Moisture Content (Tex-103-E)	Ea.	340	\$ 14.00	\$	4,760.00
	5a. Liquid Limit (Tex-104-E)	Ea.	263	\$ 40.00	\$	10,520.00
	5b. Plastic Limit (Tex-105-E)	Ea.	263	\$ 40.00	\$	10,520.00
	5c. Plasticity Index (Tex-106-E)	Ea.	263	\$ 50.00	\$	13,150.00
	6. Sieve Analysis (w/ Hyd) (Tex-110-E)	Ea.			\$	
	7200 Determination (Tex-111-E)	Ea.	263	\$ 40.00	\$	10,520.0
	8. Soils Sulfate Content (Tex-145-E)	Ea.	78	\$ 90.00	\$	7,020.0
	9. Lime Series Testing (Tex-121-E - Part 3)	Ea.	31	\$ 450.00	\$	13,950.0
	10. One Dimensional Consol (ASTM D2435)	Ea.		7 4-10-3	\$	
	Project Sub-Total (Geo Field and Lab)				\$	203,323.60

Exhibit D

# "FEE SCHEDULE" - WARRANT STUDIES'

Along East Loop: From IH 69E to SH 4

Ergonomic Transportation Solutions, Inc.

			2	MANHOURS		
s	WARRANT STUDIES	Project Manager	Traffic Engineer III	CADD	Administrative Assistant	Total
			>			
TASK						
<u>-</u> آ	Collect Data and Conduct Field Investigations	12	09	34		106
2 As	Assess Collected Data	4	20			24
3 Ac	Accident Analysis	80	44	80		09
4 O	Collision Diagram	2	4	18		24
5 Int	Intersection Exhibits	4	12	24		40
9 Sic	Signal Warrant Analysis	26	120	26		172
7 PF	Photo Album		2	14	8	24
8 Re	Recommendations	12	12			24
6	Traffic Signal Warrant Study Report	8	36	16	12	72
S.	Subtotal	76	310	140	20	546
Š	ubtotal	92	310	140	,,	50
			A			

Total Sheets/Labor Hours	92	310	140		20		546
Contract Rates	\$ 221.07 \$	127.12	\$ 71.85	s	60.79		
Total Costs	\$ 16,801.32 \$	39,407.20	\$ 10,059.00	s	1,215.80	s	67,483.32

יסומי סווספוס דמים			2		010		2		24	210
Contract Rates		9	221.07	\$	127.12	S	71.85	s	60.79	
Total Costs		\$	16,801.32	\$ 3	39,407.20	\$	10,059.00	s	1,215.80	\$ 67,483.3
EXPENSES										
Lodging	(2 people)(2 nights)(\$96/night)							6	384.00	
Meals	(2 people)(3 days)(\$36/day)							8	216.00	
Rental Car	(3 days)(\$60/day)							6	180.00	
Rental Car Fuel	(3 days)(\$30/day)							S	90.00	
Airfare	(2 people)(\$600/ea)(1 trip)							6	1,200.00	
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**ETSI Total Cost** 

69,553.32

2,070.00

Exhibit D

# "FEE SCHEDULE" - FLASHING BEACON & TRAFFIC SIGNAL DESIGN Along East Loop: From IH 69E to SH 4

Ergonomic Transportation Solutions, Inc.

No. of sheets Project (estimated) Manager	er Engineer Engineer  4 6 6 22 86 6 6	Traffic Engineer III 12 16 60 262	CADD Operator	CADD Operator   Administrative   Assistant	Total
	4 6 22 22 86 6	12 16 60 262			
	4 6 22 86 6	12 16 60 262			
	6 22 86 6	16 60 262		9	24
	22 86 6	962	10		36
	86	262	44		140
	9		176		582
40		16	10		36
18	26	78	52		174
n/a 4	9	16	10		36
14 4	9	16	10		36
n/a 8	12	36	26		82
n/a 40					40
4 14	22	09	44		140
40 170	196	572	382	9	1326
		14 14 170	40 14 22 170 196	40     22     60       14     22     60       170     196     572	40     22     60     44       14     22     60     44       170     196     572     382

Total Sheets/Labor Hours	40	170	196	4,	572		382		9	1326
Contract Rates		\$ 221.07	\$ 165.80	8	127.12	69	71.85	8	60.79	
Total Labor Costs		\$ 37,581.90	\$ 32,496.80	\$ 72	72,712.64	s	27,446.70	8	364.74	\$ 170,602.78

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	(1 person)(1 night)(\$96/night)	(1 person)(2 days)(\$36/day)	(2 days)(\$60/day)	(2 days)(\$30/day)	(1 person)(\$600/ea)(1 trip)
LA LINOLO	Lodging	Meals	Rental Car	Rental Car Fuel	Airfare

## Total Expenses

**ETSI Total Cost** 

\$ 171,550.78

948.00

96.00 72.00 120.00 60.00 600.00

99999

## FEE SCHEDULE **EXHIBIT D**

# Geotechnical Engineering, Report & Summary

WL&G Consulting Engineers, Inc.

L&G Consulting Engineers, Inc. (Division: L&G ENGINEERING LAB)

					MANHOURS			
East Loop Project	Client: S&B Infrastucture, LTD	Senior Project Manager	Geotechnical Project Engineer (Eng Engineer (Eng V)	Project Engineer (Eng IV)	Engineering Tech (Construction Inspector)	Sr CADD Operator / GIS Operator	Admin/Clerical	Total
TASK								
1A	Project Management and Review - Field Operation Oversight	80		18				26
2A	Boring Locates and Utility Clearance				10			10
3A	Field Exploration - Field Logging for Soil Borings				296			296
4A	Lab Analysis of Soil Borings - Assignments, Soil Logs, Soil Summ, Soil Classific.				74			74
16	Deep Foundation Analysis for Bridge (Wincore) (at Canal and SH 4)		12	64				76
26	Embankment Analysis (BC, Settlement, Stability)	4	32	74				110
36	Levee Analysis (BC, Settlement, Seepage, Slope Stability)	16	96	194		16		322
46	Geotechnical Report (including Bridge and Levee Geo Report)	12	36	84		36	20	188
01	Meetings, Conf Call, Invoice, Progress Reports, Admin, etc.	20	8	9			9	40
	Subtotal	09	184	440	380	52	26	1142
Labor Hours		09	184	440	380	52	26	1142
Contract Rate		\$ 215.21	\$ 180.31	છ			\$ 63.98	
Total Labor Costs		\$ 12,912.60	\$ 33,177.04	\$ 61,424.00	\$ 35,366.60	\$ 3,932.24	\$ 1,663.48	\$ 148,475.96

LINE ITEM EXPENSES
Printing Reproduction (N/A - Electronic Submittal Only)
\*L&G Consulting Engineers, Inc. (Sub-Total for Geo. Field & Lab Services)
\*- (Please see page 2, for detailed estimates of testing)

L&G Total Cost

\$ 402,984.16 \$ 254,508.20

\$ 254,508.20



## EXHIBIT D Geotechnical Field and Laboratory Services East Loop Project Prepared for S&B Infrastructure, LTD

	SERVICES	UNITS	UNITS	U	NIT COST	1	OTAL COST
I.	Project Management / Review						
II.	Utility Clearances / Boring Locates						
	B. Mileage	Mile	160	\$	0.54	\$	86.40
III.	Field Exploration						
Α	Mobilization/Demobilization (Drill Rig)	Mile	2960	\$	5.00	\$	14,800.00
В	Field Exploration					1	
	1. Soil Boring/Rock Coring w TCP (< 60 ft.)	LF	2750	\$	36.00	\$	99,000.00
	1A. Backfilling Boreholes Bentonite Plug	LF	2750	\$	10.00	\$	27,500.00
	Supp. Vehicle-Trailer, Tools Water Supply	Mile	2960	\$	0.54	\$	1,598.40
	4. Vehicle Charge	Mile	2960	\$	0.54	\$	1,598.40
	5. Traffic Control Services (Med Project)	Day	2	\$	2,500.00	\$	5,000.00
С	Miscellaneous Field Services						
IV.	Engineering Data Analysis / Report						
	Prep Soil for Testing (Tex-101-E)	Ea.	338	\$	70.00	\$	23,660.00
	Moisture Content (Tex-103-E)	Ea.	550	\$	14.00	\$	7,700.00
	5a. Liquid Limit (Tex-104-E)	Ea.	275	\$	40.00	\$	11,000.00
	5b. Plastic Limit (Tex-105-E)	Ea.	275	\$	40.00	\$	11,000.00
	5c. Plasticity Index (Tex-106-E)	Ea.	275	\$	50.00	\$	13,750.00
	6. Sieve Analysis (w/ Hyd) (Tex-110-E)	Ea.	63	\$	95.00	\$	5,985.00
	7200 Determination (Tex-111-E)	Ea.	275	\$	40.00	\$	11,000.00
	8. Soils Sulfate Content (Tex-145-E)	Ea.	37	\$	90.00	\$	3,330.0
	9. Lime Series Testing (Tex-121-E - Part 3)	Ea.				\$	
	10. One Dimensional Consol (ASTM D2435)	Ea.	35	\$	500.00	\$	17,500.00
	Project Sub-Total (Geo Field and Lab)					\$	254,508.20

# Exhibit D Cost Proposal

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

Sub Frovider, RODS Subsurface Curry Engineering, inc. Specified Rate Fee Payment Basis	ıy riigiileeliiig, ilic.				April 9, 2020
	Salary Classification		Contract Rate	Hours	Total
Project Manager Engineer Engineer-In-Training			\$199.84 \$96.82 \$85.00	04 0	\$7,993.60 \$3,872.80 \$0.00
Senior CADD Operator CADD Operator			\$102.48 \$93.70	120	\$12,297.60 \$0.00
Admin/Clerical Senior Engineer			\$65.00 \$178.61	တ ဝ	\$585.00 \$0.00
	Vacuum Excavation Vehicles (Mobilization)	mi	\$4.00		\$0.00
	Pavment Coring	each	\$250.00	0	\$0.00
	Traffic Control Devices	daily	\$500.00		\$0.00
SUE Quality Level C & D (Includes labor and eqipment for records	ecords resarch, CADD and mapping.)	-1	\$0.70	0	\$0.00
<ul><li>3 - Utility Desi eqipment for apping and lit</li></ul>	gnation records research, designating, engineering, mited traffic control.)	LF	\$1.45	0	\$0.00
SUE Field Services					
One (1) Designating Person with equipment	nent	Hour	\$105.00	0	\$0.00
	nent	Hour	\$175.00	0	\$0.00
SUE Quality Level A Testholes (Per testhole depth)					
	Level A: 0 to 4.99 ft.	Each	\$965.00	17	\$16,405.00
	Level A: > 5 to 7.99 ft.	Each	\$1,330.00	26	\$34,580.00
	Level A: > 8 to 12.99 ft.	Each	\$1,600.00	17	\$27,200.00
	Level A: > 13 to 19.99 ft.	Each	\$2,100.00	9	\$12,600.00
	Level A: > 20 ft.	VF	\$155.00	-	\$155.00
Labor	Labor Totals			209	\$24,749.00
Unit	Unit Cost				\$90,940.00
Direct E	Direct Expenses	(see attached)			\$31,584.00
Subtotal for Offsite Resources					\$147,273.00
				0	

66 Total Testholes

## Exhibit D Cost Proposal

RODS Subsurface Utility Engineering, Inc. Service to Be Provided	Unit	Fixed Cost	Maximum Cost	Quantity		Total
Travel						
Lodging/Hotel (Taxes / fees not included)	day/person		\$ 102.00	72	\$	7,344.00
Lodging/Hotel - Taxes and fees	day/person		\$ 35.00	72	\$	2,520.00
Meals (Excluding alcohol & tips) (Overnight stay required)	day/person		\$ 26.00	72	7 \$	4,032.00
Mileage	mile		\$ 0.540	2,200	\$	1,188.00
Miscellaneous						
Car Rental	day		\$ 30.00		\$	I
Traffic Control Services, Arrow Boards and Attenuator trucks - Large Project (Includes labor, equipment and fuel)	day		\$ 3,000.00		↔	ı
Traffic Control Services, Arrow Boards and Attenuator trucks - Medium Project (Includes labor, equipment and fuel)	day		\$ 2,500.00	5	\$ 12	\$ 12,500.00
Traffic Control Services, Arrow Boards and Attenuator trucks - Small Project (Includes labor, equipment and fuel)	day		\$ 1,375.00		₩	1
Attenuator trucks - (lane/Shoulder Closure) (Includes labor, equipment and fuel)	day		\$ 400.00	10	€9	4,000.00
Attenuator trucks - (No Lane Closure) (Includes labor, equipment and fuel)	day		\$ 250.00		↔	1
				TOTAL	\$ 3	\$ 31,584.00

2-J CONSIDERATION AND APPROVAL OF SUPPLEMENTAL WORK AUTHORIZATION NO. 2 TO WORK AUTHORIZATION NO. 23 WITH S&B INFRASTRUCTURE REGARDING THE ISLA BLANCA TOLL BOOTH PROJECT.

## SUPPLEMENTAL WORK AUTHORIZATION NO. 2 TO WORK AUTHORIZATION NO. 23

This Supplemental Work Authorization No. 2 is made as of this 21st day of 0ctober, 2021, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING CIVIL ENGINEERING SERVICES, dated as of May 10, 2018 (the "Agreement"), between the Cameron County Regional Mobility Authority ("Authority") and S&B Infrastructure, Ltd. ("GEC").

The work to be performed by the GEC under this Supplemental Work Authorization is for the following purpose, consistent with the Services defined in the Agreement: *Professional services including:* providing engineering services for the preparation of Construction Documents and support services to make Modifications to 2 Isla Blanca Toll Booths in Cameron County.

## Section A. - Scope of Services

GEC shall perform the Additional Services according to Exhibit B.

## Section B. - Schedule - No Change

GEC shall perform the Services and deliver the related Documents according to the schedule as shown on **Exhibit C**.

## Section C. - Compensation

Paragraph C.1 is hereby amended to increase the overall maximum amount from \$59,172.32 to \$72,272.32, an increase of \$13,100.00 based on the attached fee estimate shown on **Exhibit D**. Compensation shall be in accordance with the Agreement.

- C.1. The Authority shall pay the GEC under the following acceptable payment method Lump Sum Payment Method.
- C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

## Section D. - Authority's Responsibilities - No Change

The Authority shall perform and/or provide the services as stated in Exhibit A in a timely manner so as not to delay the Services of the GEC.

## Section E. - Other Provisions - No Change

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

-SIGNATURES ON NEXT PAGE-

By: Name: Frank Parker, Jr., Chairman Date: October 21, 2021

S&B INFRASTRUCTURE, LTD.

By: Mame: Daniel O. Rios, PE, President Date: Date: October 21, 2021

LIST OF EXHIBITS

Exhibit B - Scope of Work

Exhibit D - Consultant's Cost Proposal

## **EXHIBIT B**

## Services to be Provided by the Engineer

## **GENERAL DESCRIPTION**

For this work authorization, Engineer shall perform activities for the development of the *final design including, plans, specifications, and estimates (PS&E), and bidding documents* for Toll Booths.

The Engineer shall perform all revisions based on the new design of the electronic toll and fee collection systems being incorporated into the Toll booths. The new systems require major structural and architectural redesign to be accommodated within the booths and the existing footprints with respect to the lane configurations.



## Exhibit D Cost Proposal

July 8, 2021

## <u>Proposed Budget for Modifications to 2 Isla Blanca Toll Booths as requested by</u> <u>Parks Director & E-Transit</u>

Architect's Time \$ 8,795
Consultant's Time \$ 4,305
GRAND TOTAL \$ 13,100

Sincerely,

RUDY V. GOMEZ, AIA ARCHITECT – PLANNER

> 1150 Paredes Line Rd., Brownsville, Texas 78521 Tel (956) 546-0110 Fax (956) 546-0196

2-K CONSIDERATION AND APPROVAL TO AWARD BID NUMBER 2021 – 003 TO FOREMOST PAVING INC. AND TO APPROVE A CONTRACT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND FOREMOST PAVING, INC. FOR THE ISLA BLANCA PARK PARKING LOT EXPANSION.

## ISLA BLANCA PARK PARKING LOT EXPANSION

\*\*\*\*\*\*\*

This Contract between the Cameron County Regional Mobility Authority (the "Authority") and Foremost Paving, Inc. (the "Contractor") is hereby entered into and agreed to as of the 21st day of October 2021, (the "Effective Date") and the parties agree to certain terms and conditions, as follows (the "Contract"):

## 1.0 Definitions.

- 1.1 Authority. Any reference herein to the "Authority" shall be interpreted to mean the same as the Cameron County Regional Mobility Authority.
- 1.2 Contractor. Any reference herein to the "Contractor" shall be interpreted to mean the same as Foremost Paving, Inc.
- 1.3 The Contract. The Contract is comprised of the Contract, the Exhibits listed and referenced herein, and all formal changes to any of those documents by addendum, change order, or other modification.
- 1.4 The Contract Documents. The Contract Documents consist of this document, the general conditions and special or supplementary conditions and in the bid package for Invitation for Bid No. 2021-003, which include, but are not limited to the Plans, Standard Specifications, Special Provisions, Special Specifications, Contract Bonds, Change Orders, Addendums, and Supplemental Agreements, and the Exhibits listed and referenced herein. This Contract is intended to be an integral whole and shall be interpreted as internally consistent. Work required by any page, part, or portion of the Contract shall be deemed to be required Contract Work as if called for in the whole Contract and no claim for extra work shall be based upon the fact that the description of the Work in question is incomplete.
- 1.5 Provision of All Things Required. Anything that may be required, implied or inferred by the Contract Documents which make up this Contract, or any one or more of them, shall be provided by the Contractor for the Contract Price.
- 1.6 Privity only with the Contractor. Nothing contained in this Contract shall create, nor be interpreted to create privity or any other relationship whatsoever between Owner and any person except the Contractor and the Contractor's successors, executors, administrators, and assigns.

- 1.7 "Include" Intended to be Encompassing. "Include", "includes", or "including", as used in the Contract, shall be deemed in all cases to be followed by the phrase, "without limitation."
- 1.8 Use of Singular and Plural. Words or terms used as nouns in the Contract shall be inclusive of their singular and plural forms, unless the context of their usage clearly requires a contrary meaning.
- 1.9 Definition of Material Breaches not Exhaustive. The specification herein of any act, failure, refusal, omission, event, occurrence or condition as constituting a material breach of the Contract shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence or condition shall be deemed not to constitute a material breach of the Contract.
- 2.0 Contractor's Representations. In order to induce the Authority to execute this Contract and recognizing that the Authority is relying thereon, the Contractor, by executing this Contract, and without superseding, limiting, or restricting any other representation or warranty set forth elsewhere in this Contract, or implied by operation of law, makes the following express representations to the Authority:
  - 2.1 The Contractor is fully qualified to perform the Work. The Contractor is registered with the State of Texas.
  - 2.2 The Contractor will maintain all necessary licenses, permits or other authorizations necessary for the Work until the Contractor's duties under this Contract have been fully satisfied.
  - 2.3 The Contractor has the expertise, experience, and knowledge as well as the necessary team, personnel and financial capability to perform the Work in accordance with the terms of this Contract.
  - Prior to the execution of this Contract, the Contractor has visited and inspected the Project site and the local conditions under which the Work is to be performed, and the Contractor has reviewed the Authority's concerns, if any, as are necessary to determine the conditions under which the Work will be performed, and the Contractor accepts the conditions of the Project site and has taken those conditions into account in entering into this Contract.
  - 2.5 The Contractor assumes full responsibility to the Authority for the improper acts and omissions of its Subcontractors or others employed or retained by Contractor in connection with the Work.

## 3.0 Contract Time.

- 3.1 Notice of Commencement. After the Authority has approved the required Documents for the Work and is otherwise prepared for the Contractor to proceed with the Work, as determined by the Authority in its sole and absolute discretion, the Authority shall issue a notice to commence the Work directing the Contractor to proceed with the Work on the date indicated in the notice (the "Commencement Date").
- 3.2 Time for Completion. The Contractor shall commence the Work on the Commencement Date, and the Work shall be carried out regularly and without interruption. The Contractor shall substantially complete the Work not later than ninety (90) calendar days after the Commencement Date, or such other date as may by Change Order be designated (the "Scheduled Completion Date"). The number of working days between the effective date of the Contract and the Scheduled Completion Date is the "Contract Time."
  - 3.2.1 Unless otherwise described herein, all references to "days" shall be calendar days (in the case that the last day falls on a Saturday, Sunday, or legal holiday, then the period of time shall automatically extend to include the next work day).

### 4.0 Contract Price.

4.1 The total not-to-exceed (NTE) value of the Contract is the amount of FIVE HUNDRED SEVENTY-FOUR THOUSAND EIGHT HUNDRED AND NO/100 DOLLARS (\$574,800.00) to be paid in accordance with the provisions herein. The Contractor exceeds the NTE amount at its own risk. The Authority reserves the right to amend this amount (increase/decrease) at any time during the Contract when the Authority determines, in its sole and absolute discretion, that doing so is in its best interests.

## 5.0 Work.

- 5.1 The Contractor shall perform all Work necessary to complete the Project in accordance with the Contract Documents.
- 5.2 Work Defined. The terms "Work" and "Project Work" shall mean whatever is done by or required of the Contractor to perform and complete its duties relating to the installation of the Project under the Contract, including, without limitation, the following:
  - 5.2.1 Construction of the whole and all parts of the Work in full and strict conformity with this Contract;

- 5.2.2 The provision and furnishing, and prompt payment therefore, of all labor, supervision, services, materials, supplies, equipment, fixtures, tools, transportation, storage, and things required for the installation of the Project;
- **5.2.3** The furnishing of any required bonds and insurance as required by the Contract:
- 5.2.4 The furnishing of all warranties required by the Contract; and,
- 5.2.5 The furnishing of all other services and things required or reasonably inferable from the Contract Documents.
- 6.0 Authority's Obligations. Pursuant to the Contract, the Authority agrees to perform any obligations of the Authority as detailed herein.
  - 6.1 The Authority shall review any documents submitted by the Contractor requiring the Authority's decision and shall render any required decisions pertaining thereto.
  - 6.2 In the event that the Authority knows of any material fault or defect in the Work, nonconformance with the Contract, or any other errors, omissions, or inconsistencies, the Authority shall give prompt notice thereof in writing to the Contractor.
  - 6.3 The Authority shall provide the Contractor with access to the site and to the Work, and shall provide the Contractor with such information, existing and reasonably available, necessary to the Contractor's performance of the Contract as the Contract may request.
  - 6.4 The Authority shall cooperate with the Contractor in securing any necessary licenses, permits, approvals, or other necessary authorizations.
  - 6.5 The Authority shall perform the duties set forth herein in a reasonably expeditious fashion so as to permit the orderly and timely progress of the Work.
  - 6.6 The Authority's agreement not to exercise, or its delay or failure to exercise, any right under the Contract or to require strict compliance with any obligation of the Contractor under the Contract shall not be a waiver of the right to exercise such right or to insist on such compliance at any other time or on any other occasion.
  - 6.7 Right to Audit. The Authority shall be entitled to rely upon the accuracy and completeness of the information furnished by the Contractor in connection with its request for payment. The Authority shall have the right, however, upon demand, to make a detailed examination, audit, or inspection of the Contractor's books and records for the purpose of verifying the accuracy and completeness of such information. In the event the Authority determines that the Contractor has been

paid any sums not due, then such sums shall be reimbursed by the Contractor to the Authority within two (2) Working Days of written demand by the Authority. In addition, the Contractor shall make available at reasonable times and upon reasonable notice, and for reasonable periods, work papers, reports, books, records, and supporting documents kept current by the Contractor pertaining to the Contract for purposes of inspecting, monitoring, auditing, or evaluating by the Authority. The Contractor shall maintain and retain all records relating to the performance of the Contract including supporting fiscal documents adequate to ensure that claims for contract funds are in accordance with the applicable requirements. These records will be maintained and retained by the Contractor for a period of seven (7) years after the Contract expiration or until all audit, claim, and litigation matters are resolved, whichever is later.

## 7.0 Billing Method.

- 7.1 To receive payment for services rendered pursuant to the Contract, the Contractor shall submit a fully completed payment application for work previously performed for the Authority in accordance with section 10.1 herein.
- 7.2 The Authority shall have thirty (30) days to review the payment application and determine, in its sole and absolute discretion, whether the payment application satisfies the requirements herein and in the Contract Documents.
- 7.3 The Contractor waives any rights under the Prompt Payment Act or other law until the foregoing requirements are fulfilled as determined by the Authority in its sole and absolute discretion.
- 7.4 At a minimum, the payment application shall detail the following information:
  - 7.4.1.1 Unique payment application number
  - 7.4.1.2 Contractor's name, address, and telephone number
  - 7.4.1.3 Date of payment application and/or billing period
  - 7.4.1.4 Applicable Contract No.
  - 7.4.1.5 Applicable Purchase Order No.
  - 7.4.1.6 Brief description of services rendered, including applicable time frame, total hours being billed for each service at each detailed site, and at the approved rate (may be submitted in the form of a report)
  - 7.4.1.7 Supporting documentation for the payment application
  - 7.4.1.8 Total dollar amount being currently billed
- 7.5 The Authority reserves the right to issue payments for payment applications in the form of joint checks in the event that the Authority determines, in its sole and absolute discretion, that doing so is in its best interests.

## 8.0 Additional Obligations of the Contractor.

- 8.1 The Contractor shall be solely responsible for providing supervision and oversight to all of the Contractor's personnel.
- 8.2 The Contractor agrees to submit a status report to the Authority at least one (1) time every ten (10) business days during the term of this Contract in addition to the scheduling and reporting requirements under the Contract.
- 8.3 The Contractor warrants and represents that it will assign only qualified personnel to perform the services outlined herein and within the Contract Documents. For the purposes of the Contract, the term "qualified personnel" shall mean those personnel that have been investigated, tested and trained in the manner described within the Contract and, as proposed by the Contractor within its bid or as provided by the Contractor during the Contractor's normal conduct of business.
- 8.4 Compliance with Federal and State Laws. All work performed by the Contractor, pursuant to the Contract, shall be done in accordance with all applicable Federal, State and local laws, regulations, codes, and ordinances.
- 8.5 Insurance Requirements.
  - **8.5.1 Indemnity.** The indemnity requirements are detailed within section 11.15 herein.
  - **8.5.2** Insurances. In this regard, the Contractor shall maintain the following insurance coverage during the effective term(s) of the Contract and shall name the Authority as an "additional insured" on the following insurance coverage:
    - 8.5.2.1 Commercial General Liability Insurance. An original certificate evidencing Commercial General Liability coverage, naming the Authority as an additional insured, together with the appropriate endorsement to said policy reflecting the addition of the Authority as an additional insured under said policy (combined single limit of not less than \$1,000,000.00 for bodily injury and property damage). If the policy is a "claims-made" policy, then the policy must provide a retroactive date which must be on or before the execution date of the Contract and the extended reporting period may not be less than five (5) years following the completion date of the Contract.
    - 8.5.2.2 Business Automobile Liability Insurance. Such coverage shall be a combined single limit of not less than \$1,000,000.00 for bodily injury and property damage.

- 8.5.2.3 Worker's Compensation Insurance. Such coverage shall be not less than the statutory requirement and with no pre-set limits. A waiver of subrogation endorsement in favor of the Authority must be included in the policy.
- 8.5.2.4 Umbrella Liability. Such coverage shall be not less than \$1,000,000.00 per occurrence or \$1,000,000.00 in the aggregate.
- TP
- 8.5.2.5 All Risk Builder's Risk Insurance. Such coverage shall be for 100% of the Contract Price.
- 8.5.2.6 By signing the Contract, the Contractor certifies compliance with all applicable laws, rules, and regulations pertaining to worker's compensation insurance. This certification includes all subcontractors. The Contractor shall pay all deductibles stated in the policy.
- Certificates/Endorsements. The Contractor shall provide to 8.5.2.7 Authority with current certificate(s)/endorsement(s) evidencing the insurance coverage referenced above. Such certificates shall indicate that policies will not be reduced or canceled without thirty days prior notice to Owner. The required insurance must be written by a company licensed to do business in the State of Texas at the time the policy is issued. The insurance company shall be acceptable to the Owner and said insurance companies must have a rating in the current Best's of at least A:XIII. Failure to maintain the above-referenced insurance coverage, including naming the Authority as an additional insured during the term(s) of the Contract shall constitute material breach thereof. a be delivered to the certificate(s)/endorsement(s) shall Contracting Officer.
- 8.6 Licensing. The Contractor shall also provide to the Authority a copy of any required licenses. Failure to maintain these licenses in a current status during the term(s) of the Contract shall constitute a material breach thereof.
- 8.7 Confidentiality. The Contractor, in connection with performing its services hereunder, will have access to or may be provided certain confidential information concerning the Authority and agrees that any information concerning the finances, accounting practices, business, client, client lists, property information, client data, records of the Authority or any other information which a reasonable person could conclude that should remain confidential (collectively "Confidential Information"), will not be disclosed to any party and without limitation, any employee of the Authority or any client or potential client of the Authority at any time, except for the Contractor's legal counsel, accounts, or financial advisors, who will also hold

such Confidential Information in confidence. The Contractor acknowledges that the information is being provided with the sole understanding that all Confidential Information will remain confidential and will be held in the strictest confidence. The Contractor further acknowledges that any disclosure of the Confidential Information, whether intentional or inadvertent, may harm the Authority. The Authority will have the right to enforce the Contract by specific performance, as well as hold the Contractor liable for any damages caused by any disclosure of any Confidential Information, whether intentional or inadvertent. The Contractor agrees that he has received valuable consideration for the entering into of the Contract and agrees to be bound all of its terms and conditions. The Contract will be binding on the Contractor and any attorney, accountant, financial advisor who also may be provided Confidential Information. This provision shall survive any expiration or termination of the Contract.

#### 9.0 Changes and Extensions of Time.

- 9.1 Authority's Right to Order Changes. Changes in the Work under this Contract, consisting of additions, deletions, revisions, or any combination thereof, may be ordered unilaterally by the Authority, in the Authority's sole and absolute discretion, without invalidating the Contract. Such changes shall be communicated by Change Order or supplemental agreement in accordance with the Contract. The Contractor shall proceed diligently with any changes, and same shall be accomplished in strict accordance with the Contract as modified by any Change Order or supplemental agreement.
- 9.2 Continuing Duty to Perform the Work and Make Payment. In the event that the parties are unable to agree on the terms of a Change Order or supplemental agreement, notwithstanding any other provision of the Contract, the Contractor shall continue to diligently perform the Work, including any change directed by the Authority through a Change Order or supplemental agreement, and shall keep thorough records of the cost of performance of such Change Order or supplemental agreement.
- 9.3 All Change Orders, supplemental agreements, changes requested by the Contractor, or extensions of Contract Time shall be governed by this section and the Contract. Any request for an extension of time or for an increase in the not-to-exceed amount shall be made in writing within seven (7) calendar days after the occurrence of the event that gives rise to the request. Such request shall include sufficient backup documentation for the Authority to reasonably understand the request and the amount of time or compensation requested and to determine the merits of the request.

#### 10.0 Notices, Invoices, and Reports.

10.1 All notices, reports and/or invoices submitted to the Authority by the Contractor pursuant to the Contract shall be in writing and delivered to the attention of the following person representing the Authority:

Cameron County Regional Mobility Authority
Attention: Frank Parker, Jr.
Chairman
3461 Carmen Avenue
Rancho Viejo, Texas 78575
Email: PSepulveda@ccrma.org

10.2 All notices submitted to the Contractor pursuant to the Contract shall be in writing and delivered to the attention of:

Foremost Paving, Inc. Attention: Trey Pebley P.O. Box 29 Weslaco, Texas 78599 Email: trey@fpitex.com

#### 11.0 Additional Considerations.

- 11.1 Severability. The invalidity of any provision of the Contract, as determined by a court of competent jurisdiction shall in no way affect the validity of any other provision herein.
- Applicable Laws and Venue. THIS CONTRACT SHALL BE GOVERNED AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS. VENUE FOR ANY CAUSE OF ACTION ARISING OUT OF OR RELATED TO THIS CONTRACT SHALL BE EXCLUSIVELY IN THE STATE AND FEDERAL COURTS OF CAMERON COUNTY, TEXAS. ANY ALTERATIONS, ADDITIONS, OR DELETIONS TO THE TERMS OF THE CONTRACT THAT ARE REQUIRED BY CHANGES IN FEDERAL OR STATE LAW OR REGULATIONS ARE AUTOMATICALLY INCORPORATED INTO THE CONTRACT WITHOUT WRITTEN AMENDMENT HERETO AND SHALL BECOME EFFECTIVE ON THE DATE DESIGNATED BY SUCH LAW OR BY REGULATION.
- 11.3 Non-Escalation. The NTE value of the Contract shall remain firm with no provision for price increases during the term of the Contract subject to section 4.1 herein.

- 11.4 Funding Restrictions and Order Quantities. The Authority reserves the right to reduce or increase estimated or actual quantities in whatever amount necessary without prejudice or liability to the Authority, if:
  - 11.4.1 Funding is not available;
  - 11.4.2 Legal restrictions are placed upon the expenditure of monies for this category of service or supplies; or,
  - 11.4.3 The Authority's requirements in good faith change after award of the Contract.
- 11.5 Local State, and/or Federal Permits. All local, State or Federal permits which may be required to provide the services, whether or not they are presently known to either the Authority or the Contractor, shall be the sole responsibility of the Contractor and any costs shall be paid by Contractor to procure and provide such necessary permits.
- 11.6 Government Standards. It is the responsibility of the Contractor to ensure that all items and services proposed conform to all local, State and Federal law concerning safety (OSHA and NOSHA) and environmental control (EPA and Texas law as well as ordinances or regulations of the City of Brownsville, Texas, and Cameron County, Texas) and any other enacted ordinance, code, law or regulation. The Contractor shall be responsible for all costs incurred for compliance with any such possible ordinance, code, law, or regulation. No time extensions shall be granted or financial consideration given to the Contractor for time or monies lost due to violations of any such ordinance, code, law or regulations that may occur.
- 11.7 Work on Authority Property. If the Contractor's work under the contract involves operations by the Contractor on Authority premises, the Contractor shall take all necessary precautions to prevent the occurrence of any injury to persons or property during the progress of such work and, except to the extent that any such injury is caused solely and directly by the Authority's negligence, shall indemnify the Authority, and their officers, agents, servants and employees against all loss which may result in any way from any act or omission of the Contractor, its agents, employees, or subcontractors.
- 11.8 Official, Agent and Employees of the Authority Not Personally Liable. It is agreed by and between the parties hereto that in no event shall any official, officer, employee, or agent of the Authority in any way be personally liable or responsible for any covenant or agreement herein contained, whether either expressed or implied, nor for any statement, representation or warranty made herein or in any connection with this agreement.
- 11.9 Subcontractors. Unless otherwise authorizing in writing by the Authority, the Contractor may not use any subcontractors to accomplish any portion of the services described within the Contract or the Task Orders without obtaining the prior written permission of the Authority.

- 11.10 Attorney's Fees. In the event that litigation is commenced by one party hereto against the other in connection with the enforcement of any provision of this agreement, the prevailing party shall be paid by the losing party all court costs and other expenses of such litigation, including reasonable attorneys' fees. The amount so allowed as attorneys' fees shall be taxed to the losing party as costs of the suit, unless prohibited by law.
- 11.11 Independent Contractor. The Contractor is an independent contractor. Nothing herein shall create any association, agency, partnership or joint venture between the parties hereto and neither shall have any authority to bind the other in any way.
- 11.12 Waiver of Breach. A waiver of either party of any terms or condition of this agreement in any instance shall not be deemed or construed as a waiver of such term or condition for the future, or of any subsequent breach thereof. All remedies, rights, undertakings, obligations, and agreements contained in this agreement shall be cumulative and none of them shall be in limitation of any other remedy, right, obligation or agreement of either party.
- 11.13 Time of the Essence. Time is of the essence under this agreement as to each provision in which time of performance is a factor.
- 11.14 Limitation of Liability. NOTWITHSTANDING ANY OTHER PROVISION TO THE CONTRARY HEREIN, IN NO EVENT SHALL THE AUTHORITY BE LIABLE TO THE CONTRACTOR FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES, OR LOSS OF PROFITS, ANTICIPATED OR OTHERWISE, OR LOSS OF REVENUES IN CONNECTION WITH OR ARISING OUT OF, OR IN CONNECTION WITH, THE SUBJECT MATTER OF THIS CONTRACT.
- 11.15 Indemnification. This provision shall survive any expiration or termination of the Contract.
  - 11.15.1THE CONTRACTOR RELEASES THE AUTHORITY FROM AND AGREES TO INDEMNIFY, DEFEND, AND HOLD THE AUTHORITY (AND ITS DIRECTORS, OFFICERS, EMPLOYEES, AND AGENTS) HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, DAMAGES, LOSSES, SUITS, ACTIONS, DECREES, JUDGMENTS, ATTORNEY'S FEES, COURT COSTS, AND OTHER EXPENSES OF ANY KIND OR CHARACTER FOR DEFENDING THE CLAIMS AND DEMANDS, WHICH ARE CAUSED BY, ARISE OUT OF, OR OCCUR DUE TO ANY FAILURE OF THE CONTRACTOR TO PERFORM THE OBLIGATIONS REQUIRED BY THE CONTRACT AS WELL AS FEDERAL, TEXAS, OR OTHER APPLICABLE LAW, INCLUDING BUT NOT LIMITED TO CLAIMS OR DEMANDS BASED ON THE NEGLIGENCE, GROSS NEGLIGENCE, OR OTHER ACTIONS OR INACTIONS OF THE CONTRACTOR, OR THE

CONTRACTOR'S AGENTS, EMPLOYEES, SUBCONTRACTORS, OR OTHER THIRD PARTIES. THE CONTRACTOR HEREBY WAIVES ANY RIGHT TO DEFEND AGAINST THE ENFORCEABILITY OF THIS INDEMNIFICATION PROVISION AND EXPRESSLY AGREES THAT THIS PROVISION MEETS ALL LEGAL REQUIREMENTS AND IS LEGALLY ENFORCEABLE AGAINST THE CONTRACTOR.

- 11.15.2In this connection, it is expressly agreed that the Contractor shall, at its own expense, defend the Authority, its officers, employees, and agents, against any and all claims, suits or actions which may be brought against them, or any of them, as a result of, or by reason of, or arising out of, or on account of, or in consequence of any act or failure to act of the Contractor the consequences of which the Contractor has indemnified the Authority. If the Contractor shall fail to do so, the Authority shall have the right, but not the obligation, to defend the same and to charge all direct and incidental costs of such defense to the Contractor including attorney's fees and court costs.
- 11.15.3Any money due to the Contractor under and by virtue of the Contract, which the Authority believes must be withheld from the Contractor to protect the Authority, may be retained by the Authority so long as it is reasonably necessary to ensure the Authority's protection; or in case no money is due, its surety may be held until all applicable claims have been settled and suitable evidence to that effect furnished to the Authority provided, however, the Contractor's payments shall not be withheld, and its surety shall be released, if the Contractor is able to demonstrate that it has adequate liability and property damage insurance to protect the Authority from any potential claims.
- 11.15.4The Contractor shall provide that any contractual arrangement with a subcontractor shall be in conformance with the terms of the Contract including the terms of this indemnity provision. The Contractor guarantees that it will promptly handle and rectify any and all claims for materials, supplies and labor, or any other claims that may be made against it or any of its subcontractors in connection with the contract.
- 11.15.5THE CONTRACTOR RELEASES THE AUTHORITY FROM AND AGREES TO INDEMNIFY, DEFEND, AND HOLD THE AUTHORITY (AND ITS DIRECTORS, OFFICERS, EMPLOYEES, AND AGENTS) HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, DAMAGES, LOSSES, SUITS, ACTIONS, DECREES, JUDGMENTS, ATTORNEY'S FEES, COURT COSTS, AND OTHER EXPENSES OF ANY KIND OR CHARACTER FOR DEFENDING THE CLAIMS AND DEMANDS BASED ON THE NEGLIGENCE, GROSS NEGLIGENCE, OR OTHER ACTIONS OR INACTIONS OF THE AUTHORITY, OR THE AUTHORITY'S AGENTS, EMPLOYEES, OR OTHER THIRD PARTIES. THE CONTRACTOR HEREBY WAIVES

ANY RIGHT TO DEFEND AGAINST THE ENFORCEABILITY OF THIS INDEMNIFICATION PROVISION AND EXPRESSLY AGREES THAT THIS PROVISION MEETS ALL LEGAL REQUIREMENTS AND IS LEGALLY ENFORCEABLE AGAINST THE CONTRACTOR.

11.16 Rights in Data (Ownership and Proprietary Interest). For purposes of the Contract, the term "Work Product" is defined as all work papers, materials, approaches, designs, specifications, systems, software, programs, source code, documentation, methodologies, concepts, intellectual property or other property and/or results of the services that are developed, produced, generated or provided to the Authority in connection with, or as a result of, the services provided under the contract. The Authority and the Contractor intend this agreement to be a contract for the services and each considers and expressly intends and agrees that the Work Product to be rendered by the Contractor shall be a work-made-for-hire. The Contractor and the Contractor's employees will have no rights in or ownership of the Work Product or any other property of the Authority. The Contractor acknowledges and agrees that the Work Product (and all rights therein, including without limitation all intellectual property rights) belongs to and shall be the sole and exclusive property of the Authority. If for any reason the Work Product would not be considered a work-made-for-hire under applicable law, the Contractor does hereby irrevocably sell, assign, and transfer to the Authority, its successors and assigns, the entire right, title and interest in and to the Work Product and any and all intellectual property rights embedded therein or associated therewith, and in and to all works based upon, derived from, or incorporating the Work Product, and in and to all income, royalties, damages, claims and payments now or hereafter due or payable with respect thereto, and in and to all causes of action, either in law or in equity for past, present, or future infringement based on the copyrights, and in and to all rights corresponding to the foregoing. The Contractor agrees to execute all papers and to perform such other property rights, as the Authority may deem necessary to secure for the Authority or its designee the rights herein assigned. In the event that the Contractor has any rights in and to the Work Product that cannot be assigned to the Authority, the Contractor hereby grants to Agency an exclusive, worldwide, royalty-free, irrevocable, and perpetual license to directly and indirectly reproduce, distribute, modify, create derivative works of, publicly perform and publicly display, such rights to make, have made, use, sell and offer for sale any products developed by practicing such rights, and to otherwise use such rights, with the right to sublicense such rights through multiple levels of sublicenses. No later than the first calendar day after the termination or expiration of the contract or upon the Authority's request, the Contractor shall deliver to the Authority all completed, or partially completed, Work Product and any and all versions thereof. Failure to timely deliver such Work Product will be considered a material breach of the Contract. The Contractor will not make or retain any copies of the Work Product or any and all documentation or other products and results of the services without the prior written consent of the Authority.

- 11.17 Assignment/Transfer. The Contractor shall not assign or transfer any of its rights or interest under the Contract without first obtaining the Authority's prior written consent to such assignment or transfer. Whether to provide such prior written consent shall be in all respects within the Authority's sole and absolute discretion. Any attempted assignment in violation of this Section is void and without effect.
- 11.18 THE CONTRACTOR EXPRESSLY AGREES THAT: (I) NO PASS-THRU AGREEMENTS, OR SIMILAR AGREEMENTS, BETWEEN THE CONTRACTOR AND ANY THIRD PARTY SHALL BE ENFORCEABLE AGAINST THE AUTHORITY; AND, (2) THE AUTHORITY RETAINS ITS GOVERNMENTAL IMMUNITY IN ALL RESPECTS UNDER THIS CONTRACT AND ANY PASS-THRU AGREEMENTS OR SIMILAR AGREEMENTS AS NO PROVISION IN THIS CONTRACT IS IN ANY WAY INTENDED TO CONSTITUTE A WAIVER BY THE AUTHORITY OF ANY IMMUNITES FROM SUIT OR FROM LIABILITY THAT THE AUTHORITY MAY HAVE BY OPERATION OF LAW.
- 11.19 Warranty of Title. The Contractor warrants good title to all materials, supplies, and equipment incorporated in the work and agrees to deliver the premises together with all improvements thereon free from any claims, liens or charges, and agrees further that neither it nor any other person, firm or corporation shall have any right to a lien upon the premises or anything appurtenant thereto. This provision shall survive any expiration or termination of the Contract.
- 11.20 Warranty of Workmanship and Materials. The Contractor warrants and guarantees to the Authority that all labor furnished to perform the Work under the Contract shall be competent to perform the tasks undertaken, that the product of such labor shall yield only first-class results in compliance with the Contract, that materials and equipment furnished shall be of high quality and new unless otherwise permitted by the Contract, and that the Work will be of high quality free from faults and defects and in conformance with the Contract. Any and all Work not conforming to these requirements shall be considered defective and shall constitute a breach of the Contractor's warranty if not remedied in accordance with the Contract. This warranty shall continue for a period of one (1) year from the date of final acceptance of the work except where a longer period is specified. The Contractor further represents and guarantees to the Authority that all right, title, and interest in warranties for the materials provided as part of the Work shall be held by the Authority and the term of such warranties shall be in accordance with what is considered commercially reasonable. This provision shall survive any expiration of termination of the Contract.
- 11.21 Prohibition Against Liens. The Contractor is prohibited from placing a lien on the subject property. This prohibition shall apply to all subcontractors at any tier and all materials suppliers.

#### 11.22 Bonding Requirements.

- 11.22.1The Contractor shall furnish Performance, Payment, and Warranty Bonds, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of all the Contractor's obligations to perform the Work under the Contract Documents. These Bonds shall remain in effect at least one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the Contract Documents. The Contractor shall also furnish such other Bonds as are required by the Contract Documents.
- 11.22.2All Bonds shall be in a form approved by the Authority except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are authorized to do business in the State of Texas and are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bonds Branch, U.S. Department of the Treasury. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.
- 11.22.3If the surety on any Bond furnished by the Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in the State of Texas, or it ceases to meet the requirements herein, the Contractor shall within 20 days thereafter substitute another Bond and surety, both of which shall comply with the provisions herein.
- 11.23 Americans with Disabilities Act. The Contractor represents and warrants it compliance with the requirements of the Americans with Disabilities Act (ADA) and its implementing regulations, as each may be amended.
- 11.24 Survival. Expiration or termination of the Contract for any reason does not release the Contractor from any liability or obligation set forth in the Contract that is expressly stated to survive any such expiration or termination, that by its nature would be intended to be applicable following any such expiration or termination, or that is necessary to fulfill the essential purpose of the Contract, including without limitation the provisions regarding warranty, indemnification, confidentiality, and rights and remedies upon termination.
- 11.25 IN THE EVENT OF A QUESTION AS TO THE INTERPRETATION OF ANY PROVISION OF THIS CONTRACT, THE PROVISION SHALL NOT BE CONSTRUED AGAINST THE DRAFTING PARTY. THIS INCLUDES BUT IS NOT LIMITED TO THE CONTRACTOR'S AGREEMENT THAT SECTION 11.15, AND ANY OTHER CLAUSE HEREIN, SHALL IN NO EVENT BE STRICTLY CONSTRUED AGAINST THE AUTHORITY.

#### 12.0 Exhibits.

- 12.1 The following noted documents are a part of the Contract:
  - 12.1.1 Exhibit 1. Bid Documents for Bid No. 2021-003. A true and correct copy of the Bid Documents may be found at the Authority's office and are incorporated by reference as if fully set forth herein.
  - 12.1.2 Exhibit 2. Plans and Specifications for Bid No. 2021-003. A true and correct copy of the Plans and Specifications may be found at the Authority's office and are incorporated by reference as if fully set forth herein.
  - 12.1.3 Exhibit 3. Awarded bid for Bid No. 2021-003. A true and correct copy of the Bid may be found at the Authority's office and is incorporated by reference as if fully set forth herein.
- 12.2 Subject to section 11.25, to the extent that any provisions of this Contract conflict with the provisions of the Exhibits, the more specific provision shall control.
- 13.0 CERTIFICATIONS. Each party hereby acknowledges by signature below that they have reviewed the foregoing and understand and agree to abide by their respective obligations as defined herein.

CONTRACTOR

Foremost Paving, Inc.

Joseph E. Forshage, President

Date: 10-18-202/

AUTHORITY

Cameron County Regional Mobility Authority

y: pelale

k Parker, Jr., Chairman

Date: 10/21/2021



# GREAT AMERICAN INSURANCE COMPANY® OHIO

Bond No. CA4102334

## TEXAS STATUTORY PERFORMANCE BOND (PUBLIC WORK)

	(P	UBLIC WORK)
KNOW ALL MEN BY	THESE PRESENTS, that	Foremost Paving, Inc.
(hereinafter called the Prin	P.O. Box 29, Weslaco, ncipal(s), as Principal(s), and	, TX 78596 GREAT AMERICAN INSURANCE COMPANY (hereinafter called the
Surety), as Surety, are held	3461 Carmen Avenue, I	Cameron County Regional Mobility Authority Rancho Viejo, TX 78575
		Five Hundred Seventy-Four Thousand Eight
for the payment whereof, t	the said Principal and Surety verally, firmly by these presen	bind themselves, and their heirs, administrators, executors, successors
WHEREAS, the Princ	sipal has entered into a certai	n written contract with the Obligee, dated the 21st
Cameron County	Isla Blanca Parks Park	ing Lot 10 Expansion South Padre Island, Texas
NOW, THEREFORE, the work in accordance w remain in full force and effer PROVIDED, HOWEV Code, and all liabilities of extent as if it were copied as	THE CONDITION OF THIS of the plans, specifications a sect.  VER, that this bond is executed in this bond shall be determentated by the plant of the	eof as fully and to the same extent as if copied at length herein.  OBLIGATION IS SUCH, that is the said Principal shall faithfully perform nd contract documents, then this obligation shall be void; otherwise to depursuant to the provisions of Chapter 2253 of the Texas Government ined in accordance with the provisions of said Chapter to the same
day of October	, 20 21 .	(Principal)
		Foremost Paving, Inc.
		(Principal)
		(Principal)
COUNTERSIGNED:		GREAT AMERICAN INSURANCE COMPANY
D.,		
Ву	Reside	ent Agent By Attorney-in-Fact



# GREAT AMERICAN INSURANCE COMPANY® OHIO

Bond No. CA4102334

# TEXAS STATUTORY PAYMENT BOND (PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS, that Forem	
P.O. Box 29, Weslaco, TX 76 (hereinafter called the Principal(s)), as Principal(s), and GREAT A and existing under the laws of the State of Ohio, with its principal are held and firmly bound unto  Cameron County Reg	MERICAN INSURANCE COMPANY, a corporation organized
3461 Carmen Avenue, Rancho V	Viejo, TX 78575
(hereinafter called the Obligee), in the amount of F	
Hundred and 00/100	
	oind themselves, and their heirs, administrators, executors,
WHEREAS, the Principal has entered into a certain written of day of October , 2021 , to	contract with the Obligee, dated the 21st
Cameron County Isla Blanca Parks Parking Lo	ot 10 Expansion South Padre Island, Texas
which contract is hereby referred to and made a part hereof as full	y and to the same extent as if copied at length herein.
NOW, THEREFORE, THE CONDITION OF THIS OBLIGA' supplying labor and materials to him or a subcontractor in the probligation shall be void; otherwise to remain in full force and effect	
PROVIDED, HOWEVER, that this bond is executed pursua Code, and all liabilities on this bond shall be determined in a extent as if it were copied at length herein.	nt to the provisions of Chapter 2253 of the Texas Government coordance with the provisions of said Chapter to the same
IN WITNESS WHEREOF, the said Principal(s) and Sure	ety have signed and sealed this instrument this
21st day of October , 2021 .	1/2/
	Foremost paving, Inc. (Principal)
	'Principal)
	"Principal)
COUNTERSIGNED:	GREAT AMERICAN INSURANCE COMPANY
Ву	By / / /
Resident Agent	David C. Aughston Attomey-in-Fact
	David C. Jaguacon

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET CINCINNATI, OHIO 45202 513-369-5000 FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than SIX

No. 0 15621

#### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name

RAY HUGHSTON
DAVID C. HUGHSTON
CHRISTOPHER J. HUGHSTON
PEGGY GONZALEZ
MARY EDWARDS
MORGAN B. HUGHSTON

Address ALL OF BROWNSVILLE, TEXAS Limit of Power ALL \$100,000,000

N B. HUGHSTON

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 13TH day of FEBRUARY , 2019

Attest

My C.B.

GREAT AMERICAN INSURANCE COMPANY

11/1/

Divisional Senior Vice President

MARK VICARIO (877-377-2405)

Susan a Kohowst

STATE OF OHIO, COUNTY OF HAMILTON - ss:

Assistant Secretary

On this 13TH day of FEBRUARY, 2019, before me personally appeared MARK VICARIO, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



Susan A. Kohorst Notary Public, State of Ohio My Commission Expires 05-18-2020

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority, and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

#### CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this

21st

day of

October

2021



Assistant Secretary



### Great American Insurance Company of New York Great American Alliance Insurance Company Great American Insurance Company

#### IMPORTANT NOTICE:

To obtain information or make a complaint:

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

1-800-252-3439

You may write the Texas Department of Insurance at:

P.O. Box 149104 Austin, TX 78714-9104 FAX: 1-512-475-1771

Your notice of claim against the attached bond may be given to the surety company that issued the bond by sending it by certified or registered mail to the following address:

Mailing Address:

Great American Insurance Company

P.O. Box 2119

Cincinnati, Ohio 45202

Physical Address:

Great American Insurance Company

301 E. Fourth Street Cincinnati, Ohio 45202

You may also contact the Great American Insurance Company Claim office by:

Fax:

1-888-290-3706

Telephone:

1-513-369-5091

Email:

bondclaims@gaic.com

#### PREMIUM OR CLAIM DISPUTES:

If you have a dispute concerning a premium, you should contact the agent first. If you have a dispute concerning a claim, you should contact the company first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

#### ATTACH THIS NOTICE TO YOUR BOND:

This notice is for information only and does not become a part or condition of the attached document.

F.9667A (3/11)

2-L CONSIDERATION AND APPROVAL OF A PROFESSIONAL SERVICE AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND JWH & ASSOCIATES, INC.

# JWH & Associates, Inc.

956.793.3870 Cell Phone

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

October 21, 2021

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

Re: Professional Services for Consulting Services for CCRMA Projects

Dear Mr. Sepulveda:

I request approval of the additional services for the SH 550 Gap 2 project and the Harlingen Commerce Street Rail Relocation Project. The additional scope of services will include providing consulting services regarding issues with the Union Pacific Railroad on Cameron County Regional Mobility Authority projects as follows: Scope

- Provide consulting services relating to the consolidation of the railroad line in Harlingen and the removal of the old Southern Pacific Railroad tracks between the switchyards and Commerce Street near US 77 Sunshine Street. Such rail consolidation plan has been included within the Cameron County Railroad Relocation plan and includes the removal of numerous at grade street and rail crossings in Harlingen.
- Provide consulting services relating the to the proposed Union Pacific Railroad grade separation on SH 550. The issues relate to the utilization of the right of way and the design of the grade separation support structure within the railroad right of way.

3. Provide general consulting services relating to acquisition of rail right of way involving the Union Pacific Railroad.

It is requested that the time of this agreement be through December 31, 2022 to allow consulting services on the Cameron County Regional Mobility Authority railroad projects. The additional fee requested is not to exceed \$25,000.00 to include the consulting services of railroad expertise on Cameron County Regional Mobility Authority projects and based on the Exhibit A attached. Any additional services requested by the CCRMA would be charged on an hourly basis with the rates contained in the approved agreement. An hourly rate of \$200.00 is to be added to the fee schedule for the services of John Hopkins. Exhibit A provides the proposed Billing Rate Table. Mr. Hopkins had more than 50 years of experience working for railroads. Many of those years were in South Texas and Cameron County.

Please review this proposed action and advise me should you have any changes.

Sincerely yours,

John W. Hudson, Jr. P. E.

John W. Thudson

President

Approved

CAMERON COUNTY REGIONAL MOBILITY ARTHORITY

Frank Parker Jr.

Title: Chairman

Date: October 21, 2021

## **EXHIBIT A**

## JWH and ASSOCIATES, INC. Billing Rate Table October 21, 2021

Classification	<b>Billing Rate</b>
Principal	\$ 250.00
Admin. Assistant	\$ 55.00
Associate Engineer	\$150.00
CADD	\$ 75.00
CADD Technician	\$ 75.00
Railroad Consultant (Hopkins)	\$200.00

Reimbursable Expenses	Rate
Mileage (per mile)	\$ 0.50/mile
Meals (per diem)	\$56.00/day
Lodging	at cost
Printing/Reproduction	at cost
Rental Car	at cost
Airfare	at cost
Printing	at cost
Subconsultants	Cost + 10%

2-M DISCUSSION AND POSSIBLE ACTION REGARDING DISABLED VETERANS TOLLS AND FEES IN THE TOLLS BACK OFFICE SYSTEM.