

16A. FUTURE AMENDMENTS TO THE 2025-2028 TRANSPORTATION IMPROVEMENT PROGRAM  
AND THE 2045 REGIONAL TRANSPORTATION PLAN

**BACKGROUND**

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The 2025-2028 Transportation Improvement Program (TIP) is a four-year capital improvements program for transportation projects. Under federal rules, all federally assisted projects must be included in the TIP to be eligible for funding. In addition, federal rules require that regionally significant local projects must also be included in the TIP.

The 2045 Regional Transportation Plan (RTP) is a long-range plan that prioritizes spending on regional transportation projects including short and long-range strategies to ensure the transportation network is safe and efficient. Updated every four years, the RTP outlines a fiscally constrained transportation investment program that is based on the unique needs and characteristics of the MPO region.

Amendments to the TIP and RTP are brought to the Transportation Policy Council for consideration monthly and amended in accordance with the H-GAC Public Participation Plan.

**CURRENT SITUATION**

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A summary of the proposed revisions to the 2025-2028 Transportation Improvement Program is included below.

- Add \$26.1M of Surface Transportation Block Grant (STBG) funding to Harris County MUD 500's (Municipal Utility District) FY 2026 Greenhouse Road underpass at US 290 and Union Pacific Railroad construction project (MPO ID 18052) to fund a more detailed design which includes replacement of the existing US 290 main lanes bridge. Harris County MUD 500 will provide \$6.5M of matching funds.
- Add \$9.0M of STBG funding to City of Houston's FY 2025 Shepherd-Durham Corridor reconstruction project (MPO ID 18417) to cover inflation due to market conditions and compliance with new drainage regulations. Matching these funds with 11.8M Transportation Development Credits will reflect participation in the Regional Strategic Transportation Fund.
- Delay four TxDOT Houston District roadway construction projects in the long-range portion of the 2045 RTP (MPO IDs 261, 7562, 10114, 17234) to FY 2036 for various environmental reasons at TxDOT's request.

**ACTION REQUESTED**

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For information only.

**H-GAC 2025-2028 TIP and 2045 RTP**

**March 2025 TPC Amendments**

Count	MPOID/CSJ	Sponsor/County	Project	Proj Type	Proposed Modifications					
					STIP?	Funding (M)			Scope	Schedule
						Fed/State	Local			
1	261 0187-05-036	TXDOT HOUSTON DISTRICT (FOR)	SS 10 (SH 36, IH 69/US 59) WIDEN TO 4-LANE DIVIDED ROADWAY	R	No	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/> Delay to FY 2036.
2	7562 1986-01-045	TXDOT HOUSTON DISTRICT (MON)	FM 1314 (SH 105, SH 242) RECONSTRUCT AND WIDEN FROM 2 TO 4 LANES DIVIDED	R	No	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/> Delay to FY 2036.
3	10114 0027-08-146	TXDOT HOUSTON DISTRICT (FOR)	US 90A (LP 762, FM 359) WIDEN FROM 4 LANES TO 6-LANES DIVIDED (PHASE 3 OF 3)	R	No	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/> Delay to FY 2036.
4	17234 0114-11-083	TXDOT HOUSTON DISTRICT (WAL)	US 290 (WASHINGTON C..., SH 6) RECONSTRUCT AND WIDEN FROM 4 LANES TO 6 LANES	R	No	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/> Delay to FY 2036.
5	18052 0050-06-092	HARRIS COUNTY MUD #500 (HAR)	GREENHOUSE RD (MOUND RD, SKINNER RD A...) CONSTRUCT 6-LANE UNDERPASS WITH PEDESTRIAN AND BIKEWAYS WITHIN THE ROW EXTENDING UNDER US 290 AND THE UPRR CONNECTING TO SKINNER ROAD ON THE NORTH.	R	Yes	<input checked="" type="checkbox"/>	+ \$26.1	+ \$6.5	<input type="checkbox"/>	<input type="checkbox"/>
6	18417 0912-72-616	CITY OF HOUSTON (HAR)	SHEPHERD-DURHAM CORRIDOR (W 15TH ST, IH 10 WB FR) RECONSTRUCT ROADWAY AND VARIOUS CROSS STREETS (11TH, 12TH, 14TH ST. AT VARIOUS LIMITS) INCLUDING RE-CONFIGURATION OF TRAVEL LANES FROM 4 TO 3, INTERSECTIONS, ADDITION OF BIKE FACILITIES AND PEDESTRIAN INFRASTRUCTURE	R	No	<input checked="" type="checkbox"/>	+ \$9.0	(\$10.0)	11.8M TDCs	<input type="checkbox"/>

HOUSTON-GALVESTON MPO  
 2025 - 2028 TRANSPORTATION IMPROVEMENT PROGRAM  
 2045 REGIONAL TRANSPORTATION PLAN

March 2025 RTP Amendment

**PROPOSED VERSION**

**MPOID / CSJ**      **261 / 0187-05-036**      **STIP Revision Date:**      **FY 2036**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Fort Bend	0187-05-036	SS 10		ROSENBERG	TXDOT HOUSTON DISTRICT	
STREET:	SS 10					FUNDING CATEGORY:	
LIMITS FROM:	SH 36					VOC:	kg/day
LIMITS TO:	IH 69					NOx:	kg/day
TIP DESCRIPTION :	WIDEN TO 4-LANE DIVIDED ROADWAY						

**Project History :** Amendment # MAR-2025- 2025-03-28 Delay to FY 2036, out of UTP timeframe, pending the results of an on-going 36A study.

**Remarks:**

Total Project Cost Information:	Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category
		Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:							
Right Of Way:							
Construction:							
Construction Engineering:							
Contingencies:							
Indirects:							
Bond Financing:							
<b>Total Project Cost</b>							
		<b>Funding by share:</b>					
		<b>TDC: 0</b>					

**OLD VERSION**

**MPOID / CSJ**      **261 / 0187-05-036**      **STIP Revision Date:**      **FY 2025**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Fort Bend	0187-05-036	SS 10		ROSENBERG	TXDOT HOUSTON DISTRICT	
STREET:	SS 10					FUNDING CATEGORY:	
LIMITS FROM:	SH 36					VOC:	kg/day
LIMITS TO:	IH 69/US 59					NOx:	kg/day
TIP DESCRIPTION :	WIDEN TO 4-LANE DIVIDED ROADWAY						

**Project History :** Amendment # 29- 2005-08-26 UPDATE APPENDIX D: "PROJECTS UNDERGOING ENVIRONMENTAL ASSESSMENT" WITH A MORE COMPREHENSIVE LIST. Amendment # 67- 2004-01-23 MODIFY PROJECT TO BE CONSISTENT WITH H-GAC AIR QUALITY CONFORMITY DETERMINATION Amendment # MAY-2021- 2021-05-21 Advance from FY 2030 to FY 2025.

**Remarks:**

Total Project Cost Information:	Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category
		Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:							
Right Of Way:							
Construction:			\$0	\$0	\$0		\$0
Construction Engineering:							
Contingencies:							
Indirects:							
Bond Financing:							
<b>Total Project Cost</b>							
		<b>Funding by share:</b>					
			\$0	\$0	\$0		
		<b>TDC:</b>					

HOUSTON-GALVESTON MPO  
 2025 - 2028 TRANSPORTATION IMPROVEMENT PROGRAM  
 2045 REGIONAL TRANSPORTATION PLAN

March 2025 RTP Amendment

**PROPOSED VERSION**

**MPOID / CSJ**      **7562 / 1986-01-045**      **STIP Revision Date:**      **FY 2036**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Montgomery	1986-01-045	FM 1314	C	CONROE	TXDOT HOUSTON DISTRICT	
STREET:		FM 1314		FUNDING CATEGORY:			
LIMITS FROM:		SH 105		VOC:		kg/day	
LIMITS TO:		SH 242		NOx:		kg/day	
TIP DESCRIPTION : RECONSTRUCT AND WIDEN FROM 2 TO 4 LANES DIVIDED							

**Project History :** Amendment # MAR-2025- 2025-03-28 Delay to FY 2036, out of UTP Timeframe, due to environmental permitting and schematic issues at TxDOT's request.

**Remarks:**

<b>Total Project Cost Information:</b>		<b>Cost of Approved Phases:</b>	<b>Authorized Funding by Category/Share:</b>					<b>Funding By Category</b>
Preliminary Engineering:	Right Of Way:		Funding Category	Federal	State	Local	Local Contribution	
Construction:	Construction Engineering:	Contingencies:	Indirects:	Bond Financing:	<b>Funding by share:</b>			
<b>Total Project Cost</b>			<b>TDC: 0</b>					

**OLD VERSION**

**MPOID / CSJ**      **7562 / 1986-01-045**      **STIP Revision Date:**      **FY 2028**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Montgomery	1986-01-045	FM 1314	C	CONROE	TXDOT HOUSTON DISTRICT	
STREET:		FM 1314		FUNDING CATEGORY:			
LIMITS FROM:		SH 105		VOC:		kg/day	
LIMITS TO:		SH 242		NOx:		kg/day	
TIP DESCRIPTION : RECONSTRUCT AND WIDEN FROM 2 TO 4 LANES DIVIDED							

**Project History :** Amendment # 29- 2005-08-26 UPDATE APPENDIX D: "PROJECTS UNDERGOING ENVIRONMENTAL ASSESSMENT" WITH A MORE COMPREHENSIVE LIST.

**Remarks:**

<b>Total Project Cost Information:</b>		<b>Cost of Approved Phases:</b>	<b>Authorized Funding by Category/Share:</b>					<b>Funding By Category</b>
Preliminary Engineering:	Right Of Way:		Funding Category	Federal	State	Local	Local Contribution	
Construction:	Construction Engineering:	Contingencies:	Indirects:	Bond Financing:	<b>Funding by share:</b>			
<b>Total Project Cost</b>			<b>TDC:</b>					



HOUSTON-GALVESTON MPO  
 2025 - 2028 TRANSPORTATION IMPROVEMENT PROGRAM  
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March 2025 RTP Amendment

**PROPOSED VERSION**

**MPOID / CSJ**      **17234 / 0114-11-083**      **STIP Revision Date:**      **FY 2036**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Waller	0114-11-083	US 290	C	HEMPSTEAD	TXDOT HOUSTON DISTRICT	
STREET:	US 290					FUNDING CATEGORY:	
LIMITS FROM:	WASHINGTON C/L					VOC:	kg/day
LIMITS TO:	SH 6					NOx:	kg/day
TIP DESCRIPTION :	RECONSTRUCT AND WIDEN FROM 4 LANES TO 6 LANES						

**Project History :** Amendment # MAR-2025- 2025-03-28 Delay to FY 2036, out of UTP timeframe, due to environmental permitting around the Brazos River.

**Remarks:**

Total Project Cost Information:	Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category
		Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:							
Right Of Way:							
Construction:							
Construction Engineering:							
Contingencies:							
Indirects:							
Bond Financing:							
<b>Total Project Cost</b>							
		<b>Funding by share:</b>					
		TDC: 0					

**OLD VERSION**

**MPOID / CSJ**      **17234 / 0114-11-083**      **STIP Revision Date:**      **FY 2030**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Waller	0114-11-083		C		TXDOT HOUSTON DISTRICT	
STREET:	US 290					FUNDING CATEGORY:	
LIMITS FROM:	WASHINGTON C/L					VOC:	kg/day
LIMITS TO:	SH 6					NOx:	kg/day
TIP DESCRIPTION :	RECONSTRUCT AND WIDEN FROM 4 LANES TO 6 LANES						

**Project History :**

**Remarks:**

Total Project Cost Information:	Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category
		Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:							
Right Of Way:							
Construction:			\$0	\$0	\$0		\$0
Construction Engineering:							
Contingencies:							
Indirects:							
Bond Financing:							
<b>Total Project Cost</b>							
		<b>Funding by share:</b>					
		TDC: 0					

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

HOUSTON-GALVESTON MPO  
 2025 - 2028 TRANSPORTATION IMPROVEMENT PROGRAM  
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March 2025 TIP Amendment

**PROPOSED VERSION**

**MPOID / CSJ**      **18052 / 0050-06-092**                      **STIP Revision Date:**                      **FY 2026**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Harris	0050-06-092	CS	C	HOUSTON	HARRIS COUNTY MUD #500	\$76,000,000
STREET:	GREENHOUSE RD					FUNDING CATEGORY:	7
LIMITS FROM:	MOUND RD					VOC:	0.00 kg/day
LIMITS TO:	SKINNER RD AT US 290					NOx:	0.00 kg/day
TIP DESCRIPTION :	CONSTRUCT 6-LANE UNDERPASS WITH PEDESTRIAN AND BIKEWAYS WITHIN THE ROW EXTENDING UNDER US 290 AND THE UPRR CONNECTING TO SKINNER ROAD ON THE NORTH.						

**Project History :** Amendment # MAR-2025- 2025-03-28 Increase STBG funding by \$32,620,000 (\$26,096,000 + \$6,524,000) due to required design changes which include replacement of the existing US 290 mainlanes bridge.

**Remarks:**

<b>Total Project Cost Information:</b>		<b>Cost of Approved Phases:</b>	<b>Authorized Funding by Category/Share:</b>					<b>Funding By Category</b>
			Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:	\$3,724,000	\$76,000,000	STBG	\$60,800,000	\$0	\$15,200,000	\$0	\$76,000,000
Right Of Way:	\$0		<b>Funding by share:</b>	\$60,800,000	\$0	\$15,200,000	\$0	\$76,000,000
Construction:	\$76,000,000							
Construction Engineering:	\$3,040,000							
Contingencies:	\$7,600,000							
Indirects:	\$3,860,800							
Bond Financing:	\$0							
<b>Total Project Cost</b>	<b>\$94,224,800</b>							<b>TDC: 0</b>

**OLD VERSION**

**MPOID / CSJ**      **18052 / 0050-06-092**                      **STIP Revision Date:**                      **FY 2026**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Harris	0050-06-092	CS	C	HOUSTON	HARRIS COUNTY MUD #500	\$43,380,000
STREET:	GREENHOUSE RD					FUNDING CATEGORY:	7
LIMITS FROM:	MOUND RD					VOC:	0.00 kg/day
LIMITS TO:	SKINNER RD AT US 290					NOx:	0.00 kg/day
TIP DESCRIPTION :	CONSTRUCT 6-LANE UNDERPASS WITH PEDESTRIAN AND BIKEWAYS WITHIN THE ROW EXTENDING UNDER US 290 AND THE UPRR CONNECTING TO SKINNER ROAD ON THE NORTH.						

**Project History :** Amendment # OCT-2024- 2024-10-25 Delay from FY 2025 to FY 2026 based on October 2024 project tracking comment (Utility and RR coordination almost complete. Will let at end of 2025 in FY 2026).

**Remarks:**

<b>Total Project Cost Information:</b>		<b>Cost of Approved Phases:</b>	<b>Authorized Funding by Category/Share:</b>					<b>Funding By Category</b>
			Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:	\$2,125,620	\$43,380,000	STBG	\$34,704,000	\$0	\$8,676,000	\$0	\$43,380,000
Right Of Way:	\$0		<b>Funding by share:</b>	\$34,704,000	\$0	\$8,676,000	\$0	\$43,380,000
Construction:	\$43,380,000							
Construction Engineering:	\$1,735,200							
Contingencies:	\$4,338,000							
Indirects:	\$2,203,704							
Bond Financing:	\$0							
<b>Total Project Cost</b>	<b>\$53,782,524</b>							<b>TDC: 0</b>

PHASE: C=CONSTRUCTION, E = ENGINEERING, R = ROW, T = TRANSFER

HOUSTON-GALVESTON MPO  
2025 - 2028 TRANSPORTATION IMPROVEMENT PROGRAM  
2045 REGIONAL TRANSPORTATION PLAN

March 2025 TIP Amendment

**PROPOSED VERSION**

**MPOID / CSJ**      **18417 / 0912-72-616**      **STIP Revision Date:**      **FY 2025**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Harris	0912-72-616	CS	C	HOUSTON	CITY OF HOUSTON	\$58,950,000

STREET: SHEPHERD-DURHAM CORRIDOR      FUNDING CATEGORY: 7  
LIMITS FROM: W 15TH ST      VOC: kg/day  
LIMITS TO: IH 10 WB FR      NOx: kg/day  
TIP DESCRIPTION : RECONSTRUCT ROADWAY AND VARIOUS CROSS STREETS (11TH, 12TH, 14TH ST. AT VARIOUS LIMITS) INCLUDING RE-CONFIGURATION OF TRAVEL LANES FROM 4 TO 3, INTERSECTIONS, ADDITION OF BIKE FACILITIES AND PEDESTRIAN INFRASTRUCTURE

**Project History :** Amendment # MAR-2025- 2025-03-28 Increase federal STBG funding to cover inflation due to market conditions and compliance with new drainage regulations. Use of TDCs for non-federal match reflects participation in the Regional Strategic Transportation Fund.

**Remarks:**

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category
Item	Amount		Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:	\$2,888,550	\$58,950,000	STBG	\$58,950,000	\$0	\$0	\$0	\$58,950,000
Right Of Way:	\$0		<b>Funding by share:</b>	\$58,950,000	\$0	\$0	\$0	\$58,950,000
Construction:	\$58,950,000		<b>TDC: 11,790,000</b>					
Construction Engineering:	\$2,358,000							
Contingencies:	\$5,895,000							
Indirects:	\$2,994,660							
Bond Financing:	\$0							
<b>Total Project Cost</b>	<b>\$73,086,210</b>							

**OLD VERSION**

**MPOID / CSJ**      **18417 / 0912-72-616**      **STIP Revision Date:**      **FY 2025**

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
Houston	Harris	0912-72-616	CS	C	HOUSTON	CITY OF HOUSTON	\$50,000,000

STREET: SHEPHERD-DURHAM CORRIDOR      FUNDING CATEGORY: 7  
LIMITS FROM: W 15TH ST      VOC: kg/day  
LIMITS TO: IH 10 WB FR      NOx: kg/day  
TIP DESCRIPTION : RECONSTRUCT ROADWAY AND VARIOUS CROSS STREETS (11TH, 12TH, 14TH ST. AT VARIOUS LIMITS) INCLUDING RE-CONFIGURATION OF TRAVEL LANES FROM 4 TO 3, INTERSECTIONS, ADDITION OF BIKE FACILITIES AND PEDESTRIAN INFRASTRUCTURE.

**Project History :** Amendment # JUL-2022A- 2022-07-29 Delay from FY 2023 to FY 2024 to conform to TXDOT's 2-year letting schedule.

**Remarks:**

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category
Item	Amount		Funding Category	Federal	State	Local	Local Contribution	
Preliminary Engineering:	\$2,450,000	\$50,000,000	STBG	\$40,000,000	\$0	\$10,000,000	\$0	\$50,000,000
Right Of Way:	\$0		<b>Funding by share:</b>	\$40,000,000	\$0	\$10,000,000	\$0	\$50,000,000
Construction:	\$50,000,000		<b>TDC: 0</b>					
Construction Engineering:	\$2,000,000							
Contingencies:	\$5,000,000							
Indirects:	\$2,540,000							
Bond Financing:	\$0							
<b>Total Project Cost</b>	<b>\$61,990,000</b>							



August 12, 2024

Sent via email: [Craig.Raborn@h-gac.com](mailto:Craig.Raborn@h-gac.com)

Mr. Craig Raborn  
Houston-Galveston Area Council  
3555 Timmons Lane, Suite 120  
Houston, Texas 77027

Re: APP ID 232; Greenhouse/Skinner Road Underpass at UPRR & US 290  
Request for Amendment of 2018 TIP Award  
EHRA Project No. 131-065-00

Dear Mr. Raborn:

## BACKGROUND

The above-referenced project was approved for TIP funding by the TPC in the 2018 Call for Projects and was estimated at \$30,000,000. Harris County MUD No. 500 is the sponsor. The project is scheduled to go to construction in the 3Q of 2025 and is to be funded with STBG funds.

The project was last estimated in 2022 to cost \$43,380,000 including a 20% local participation amount. We were just receiving concept approval from TxDOT and UPRR at the time of the previous cost estimate.

Consequently, as we rapidly move to 90% completion of our construction plans, we have prepared a revised cost summary for the 60% complete design stage as follows:

Estimated Construction Subtotal	\$66,072,000	
Contingencies	<u>\$9,911,000</u>	
<b>TOTAL</b>	<b>\$75,983,000</b>	<b>(use \$76,000,000)</b>

## ANALYSIS

Though the project has been developed in accordance with all technical criteria, during the preparation of 60% complete plans the reviewing authorities expressed discomfort with the proposed design for the crossing beneath the mainlanes of US 290. The columns near the south frontage road must be strengthened due to the adjacent 17-foot deep excavation needed for the underpass. Underpinning designs for the columns were presented and discussed, but ultimately not approved.

Mr. Craig Raborn

August 12, 2024

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Through ongoing discussions with reviewing authorities, we were steered to an alternate design - the replacement of the existing US 290 mainlanes bridge. The approving agency preferred design with associated traffic control amounts to an additional \$14,000,000 cost increase compared to the 2022 cost estimate.

Also, as you know the region has experienced significant escalations in construction costs post-COVID. In fact, the Construction Cost Index has increased 40% since the inception of this project in 2018. In addition, more detailed design has added even more cost. Both of these items add another \$14,700,000 compared to the 2022 cost estimate. The remainder of the cost increase is reflected in the contingencies of \$3,300,000.

The included Attachment A – Cost Estimate Update, explains the major cost items that have increased. And Attachment B – 60% Submittal Cost Estimate, provides the current detailed cost estimate for your review.

## **REQUEST**

Harris County MUD No. 500 respectfully requests that the project funding award be increased to an overall budget of \$76,000,000 which still includes a 20% local participation amount.

Your consideration of the above request is greatly appreciated.

Sincerely,

*Truman Edminster*

Truman C. Edminster, P.E.

TCE/sf

Attachments: Attachment A – Cost Estimate Update  
Attachment B – 60% Submittal Cost Estimate

cc: Ms. Callie Barnes [Callie.Barnes@h-gac.com](mailto:Callie.Barnes@h-gac.com)  
Mr. Jim Dickinson [jim.dickinson@h-gac.com](mailto:jim.dickinson@h-gac.com)  
Mr. Vishu Lingala [Vishu.Lingala@h-gac.com](mailto:Vishu.Lingala@h-gac.com)  
Ms. Eliza Paul [eliza.paul@txdot.gov](mailto:eliza.paul@txdot.gov)

**Attachment A**  
**US 290 at Greenhouse**  
**Cost Estimate Update**

	2022 TIP Estimate	2024 Estimate	Difference
<b>Estimated Construction Cost Subtotal with Mobilization</b>	\$36,810,000	\$66,642,000	\$29,262,000
<b>Contingencies</b>	\$6,570,000	\$9,911,000	\$3,341,000
<b>Estimated Construction Total</b>	<b>\$43,380,000</b>	<b>\$75,983,000</b> <b>Use \$76,000,000</b>	<b>\$32,603,000</b>

Summary of Cost Increases	
Roadway/Bridge	\$13,776,000
Traffic Control	\$123,000
Traffic Signal	\$184,000
CTMS	\$431,000
Drainage	\$4,706,000
Pump Station	\$2,377,000
UPRR	\$6,623,000
Miscellaneous Items	\$1,042,000
Contingencies	\$3,341,000
<b>Total with Contingencies</b>	<b>\$32,603,000</b>

**\*Note: Prices include mobilization**

**SUMMARY OF COST INCREASES**

**Roadway/Bridge - \$12,015,410 + 8% Roadway/10% Bridge Mobilization ≈ \$13,776,000**

- a. TxDOT Comment – Comments from TxDOT or TxDOT design preferences.
  - i. Preparing ROW – ROW to be quantified differently by TxDOT. Unit price increased. Increase from \$243,200 to \$550,000 = \$306,800
  - ii. Concrete Pavement – TxDOT Comment for 10" to 11" concrete. Increase from \$1,298,820 to \$1,571,688 = \$272,868
  - iii. Riprap – TxDOT comment to reduce maintenance. Increase from \$205,000 to \$422,100 = \$217,100
  - iv. US 290 Bridge Replacement & Traffic Control – TxDOT comment to change construction methodology to more conventional methodology - \$13,080,561
  - v. Drill Shafts – Retaining wall reduction due to methodology change – decrease from \$4,450,000 to \$1,323,530 = (\$3,126,470)
- b. Unit Price Changes - Unit Price increase or decrease.
  - i. Removing Stabilized Base – Increase from \$83,490 to \$201,465 = \$117,975
  - ii. Embankment – Increase from \$50,000 to \$90,000 = \$40,000
  - iii. Lime & Lime Treatment – Increase from \$314,159 to \$436,705 = \$122,546
  - iv. MSE/Soil Nail Walls -Unit cost increase from \$1,506,600 to \$2,348,780 = \$609,030
- c. More Detailed Design
  - i. Excavation – Unit Price increase & more detailed modeling. Increase from \$1,500,000 to \$1,875,000 = \$375,000
- d. Mobilization - \$2,241,336

## Attachment A

### US 290 at Greenhouse

### Cost Estimate Update

#### Traffic Control - \$114,172 + 8% Mobilization ≈ \$123,000

- a. More Detailed Design
  - i. Traffic Control More detailed design and item breakdown – Increase from \$259,910 to \$374,082 = \$114,172
- b. Mobilization - \$8,828

#### Traffic Signal - \$170,447 + 8% Mobilization ≈ \$184,000

- a. More Detailed Design
  - i. Traffic Signal – Design changes due to bridge work changes and more detailed design. Increase from \$500,000 to \$670,447 = \$170,447
- b. Mobilization - \$13,553

#### CTMS - \$399,266 + 8% Mobilization ≈ \$431,000

- a. More Detailed Design
  - i. CTMS – Design changes due to bridge work changes and more detailed design. More conduit and box impacts. Increase from \$15,000 to \$414,266 = \$399,266
- b. Mobilization - \$31,734

#### Drainage - \$4,357,239 + 8% Mobilization ≈ \$4,706,000

- a. TxDOT Comment – Comments from TxDOT or TxDOT design preferences
  - i. Structural Excavation/Cement Stabilized Backfill- Specification allows item to be subsidiary or paid separately. TxDOT requested to quantify separately = \$1,567,739
- b. Unit Price Changes – Unit Price increase or decrease.
  - i. Drainage, 12x10 RCB unit price increase. – Increase from \$4,222,000 to \$7,011,500 = \$2,789,500
- c. Mobilization - \$348,761

#### Pump Station - \$2,201,000 + 8% Mobilization ≈ \$2,377,000

- a. More Detailed Design
  - i. Stormwater Pump Station – More detailed design and unit price increases. Increase from \$5,266,000 to \$7,467,000 = \$2,201,000
- b. Mobilization - \$176,000

#### UPRR - \$6,021,000 + 10% Mobilization ≈ \$6,623,000

- a. UPRR Comment - Comments from UPRR or UPRR design preferences.
  - i. UPRR retaining wall upsized due to RR loading. More detailed quantity take off from 30% estimate. Structural steel unit price increase. Track construction price increase due to more detailed design. - Increase from \$10,529,000 to \$16,550,000 = \$6,021,000
- b. Mobilization - \$602,000

SPEC	ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
		<b>ROADWAY/BRIDGE</b>				
500	6001	MOBILIZATION (8%)	LS	\$947,680.00	1	\$947,680
100	6002	PREPARING ROW	STA	\$12,500.00	44.00	\$550,000
104	6001	REMOVING CONC (PAV)	SY	\$7.00	16,414	\$114,898
104	6011	REMOVING CONC (MEDIANS)	SY	\$8.00	704	\$5,632
104	6036	REMOVING CONC (SIDEWALK OR RAMP)	SY	\$20.00	413	\$8,260
104	6017	REMOVING CONC (DRIVEWAYS)	SY	\$20.00	301	\$6,020
104	6022	REMOVING CONC (CURB AND GUTTER)	LF	\$10.00	8,170	\$81,700
105	6095	REMOVING STAB BASE & ASPH PAV (12"-14")	SY	\$11.00	18,315	\$201,465
110	6001	EXCAVATION (ROADWAY)	CY	\$12.50	150,000	\$1,875,000
132	7006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	\$18.00	5,000	\$90,000
260	7001	LIME(HYD,COM OR QK)(SLRY)OR QK(DRY)	TONS	\$300.00	902	\$270,600
260	6084	LIME TRT (SUBGRADE)(12")	SY	\$5.00	33,221	\$166,105
276	7343	CEM TRT(PLNT MX) (CL N)(TY E)(GR 4)(6")	SY	\$6.00	33,221	\$199,326
292	6017	(1") ASPHALT STAB BASE (GR 4)(PG 64)	TON	\$101.00	1,832	\$185,032
360	7095	CONC PAV (JOINT REINF) (10")	SY	\$65.00	9,678	\$629,070
360	7005	CONC PVMT (CONT REINF - CRCP) (11")	SY	\$72.00	21,829	\$1,571,688
423	6001	RETAINING WALL (MSE)	SF	\$70.00	33,554	\$2,348,780
423	6008	RETAINING WALL (CAST-IN-PLACE)	SF	\$110.00	1,900	\$209,000
423	6007	RETAINING WALL (DRILL SHAFT) (FACIA)	SF	\$130.00	10,181	\$1,323,530
432	7003	RIPRAP (CONC)(6 IN)	CY	\$450.00	\$ 938.00	\$422,100
		TIEBACKS FOR DRILL SHAFT RETAINING WALL	LB	\$10.00	77,634	\$776,340
450	7024	RAIL (TY SSTR)	LF	\$55.00	1,230	\$67,650
479	6001	ADJUSTING MANHOLES	EA	\$420.00	2	\$840
496	6002	REMOVE STR (INLET)	EA	\$558.00	14	\$7,812
496	6003	REMOVE STR (MANHOLE)	EA	\$670.00	1	\$670
496	6004	REMOVE STR (SET)	EA	\$440.00	4	\$1,760
496	6006	REMOVE STR (HEADWALL)	EA	\$1,825.00	4	\$7,300
496	6007	REMOV STR (PIPE)	LF	\$20.00	323	\$6,460
496	6008	REMOV STR (BOX CULVERT)	LF	\$24.00	245	\$5,880
496	6023	REMOVE STR (JUNCTION BOX)	EA	\$1,250.00	1	\$1,250
514	7002	PERM CTB (SGL SLOPE) (TY 3) (42)	LF	\$320.00	160	\$51,200
529	7007	CONC CURB (MONO) (TY II)	LF	\$6.00	15,161	\$90,966
530	7006	DRIVEWAYS (CONC)	SY	\$88.00	301	\$26,488
531	7003	CONC SIDEWALKS (6")	SY	\$80.00	2,139	\$171,120
531	7008	CURB RAMPS (TY 5)	EA	\$3,500.00	2	\$7,000
531	7010	CURB RAMPS (TY 7)	EA	\$2,000.00	3	\$6,000
531	7011	CURB RAMPS (TY 10)	EA	\$2,400.00	2	\$4,800
531	7013	CURB RAMPS (TY 21)	EA	\$2,280.00	1	\$2,280
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	\$3,377.00	2	\$6,754
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	\$31.50	50	\$1,575
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	\$2,100.00	2	\$4,200
545	6018	CRASH CUSH ATTEN (INSTL)(S)(N)(TL2)	EA	\$8,675.00	2	\$17,350
550	6003	CHAIN LINK FENCE (REMOVE)	LF	\$6.00	260	\$1,560
690	6051	REMOVAL OF SIGNAL POLE ASSM	EA	\$893.00	2	\$1,786
690	6089	REMOVE PED POLE ASSM	EA	\$765.00	9	\$6,885
		6" CRUSHED STONE	SY	\$0.00	1,142	\$0
		GEOTEXTILE FABRIC	SY	\$0.00	1,371	\$0
416	6026	DRILL SHAFT (HIGH MAST POLE) (60 IN)	LF	\$1,086.00	34	\$36,924
618	6046	CONDT (PVC) (SCH 80) (2")	LF	\$10.00	1,920	\$19,200
620	6009	ELEC CONDR (NO. 6) BARE	LF	\$2.50	1,920	\$4,800
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	\$2.50	4,140	\$10,350
624	6010	GROUND BOX TY D W/ APRON	EA	\$1,660.00	6	\$9,960

SPEC	ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
6156	6002	LED HI MAST IL ASM (6 FIXT) (ASYM) (TY A)	EA	\$40,000.00	1	\$40,000
6162	6006	RELOC HIGH MAST LIGHT (125 FT)	EA	\$20,000.00	1	\$20,000
		SWPPP	LS	\$22,523.00	1	\$22,523
		PERMANENT SIGNING/PAVEMENT MARKINGS	LS	\$76,391.00	1	\$76,391
		HYDROMULCH SEEDING	LS	\$20,000.00	1	\$20,000
162	6002	BLOCK SODDING	SY	\$5.00		
		ITS RELOCATION	LS	\$25,000.00	1	\$25,000
		RCB ABANDON IN PLACE	LF	\$20.00	1,233	\$24,660
		PIPE ABANDON IN PLACE	LF	\$10.00	189	\$1,890
		TRAFFIC CONTROL PLAN (20% OF BRIDGE COST)	LS	\$1,902,680.35	1	\$1,902,680
500	6001	MOBILIZATION (10% TCP AND BRIDGE COST)	LS	\$1,141,608.21	1	\$1,141,608
		BRIDGE (110' SPAN TX I BEAM)	SF	\$170.11	55925	\$9,513,402
		<b>TRAFFIC CONTROL</b>				
500	6001	MOBILIZATION (8%)	LS	\$29,926.52	1	\$29,927
464	6001	RC PIPE (CL III) (12 IN)	LF	\$80.00	34.00	\$2,720
502	6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	\$10,000.00	0.00	\$0
508	6001	CONSTRUCTING DETOURS	SY	\$95.00	2480.00	\$235,600
512	6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	\$60.00	1280.00	\$76,800
512	6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	\$65.00	60.00	\$3,900
512	6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	\$10.00	820.00	\$8,200
512	6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	\$12.00	100.00	\$1,200
512	6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	\$20.00	1280.00	\$25,600
512	6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	\$20.00	60.00	\$1,200
662	6001	WK ZN PAV MRK NON-REMOV (W)4"(BRK)	LF	\$1.00	140.00	\$140
662	6002	WK ZN PAV MRK NON-REMOV (W)4"(DOT)	LF	\$1.50	50.00	\$75
662	6004	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	LF	\$0.50	1695.00	\$848
662	6012	WK ZN PAV MRK NON-REMOV (W)8"(SLD)	LF	\$1.00	140.00	\$140
662	6016	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	LF	\$7.50	56.00	\$420
662	6017	WK ZN PAV MRK NON-REMOV (W) (ARROW)	EA	\$80.00	3.00	\$240
662	6029	WK ZN PAV MRK NON-REMOV(W) (WORD)	EA	\$100.00	3.00	\$300
662	6034	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	LF	\$1.00	123.00	\$123
662	6052	WK ZN PAV MRK REMOV (REFL) TY II-C-R	EA	\$5.00	47.00	\$235
662	6060	WK ZN PAV MRK REMOV (W)4"(BRK)	LF	\$1.50	350.00	\$525
662	6061	WK ZN PAV MRK REMOV (W)4"(DOT)	LF	\$2.00	22.00	\$44
662	6063	WK ZN PAV MRK REMOV (W)4"(SLD)	LF	\$2.00	2209.00	\$4,418
662	6071	WK ZN PAV MRK REMOV (W)8"(SLD)	LF	\$2.00	685.00	\$1,370
662	6075	WK ZN PAV MRK REMOV (W)24"(SLD)	LF	\$12.00	168.00	\$2,016
662	6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	\$220.00	3.00	\$660
662	6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	\$310.00	3.00	\$930
662	6095	WK ZN PAV MRK REMOV (Y)4"(SLD)	LF	\$1.50	4252.00	\$6,378
		<b>TRAFFIC SIGNAL</b>				
500	6001	MOBILIZATION (8%)	LS	\$53,635.76	1	\$53,636
416	6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	LF	\$213.48	24	\$5,124
416	6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	\$396.13	28	\$11,092
416	6034	DRILL SHAFT (TRF SIG POLE) (48 IN)	LF	\$645.00	88	\$56,760
610	6214	IN RD IL (TY SA) 40T-8 (250W EQ) LED	EA	\$4,352.40	4	\$17,410
618	6046	CONDT (PVC) (SCH 80) (2")	LF	\$9.37	465	\$4,357
618	6053	CONDT (PVC) (SCH 80) (3")	LF	\$14.25	1,135	\$16,174
618	6058	CONDT (PVC) (SCH 80) (4")	LF	\$16.97	270	\$4,582
620	6009	ELEC CONDR (NO.6) BARE	LF	\$1.44	1,155	\$1,663
620	6012	ELEC CONDR (NO.4) INSULATED	LF	\$1.90	90	\$171
621	6005	TRAY CABLE (4 CONDR) (12 AWG)	LF	\$1.90	1,880	\$3,576
624	6010	GROUND BOX TY D (162922)W/APRON	EA	\$1,212.97	10	\$12,130
628	6145	ELC SRV TY D 120/240 060(NS)SS(E)SP(O)	EA	\$4,407.54	1	\$4,408

SPEC	ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
680	6003	INSTALL HWY TRF SIG (SYSTEM)	EA	\$31,845.09	1	\$31,845
682	6001	VEH SIG SEC (12")LED(GRN)	EA	\$399.83	14	\$5,598
682	6002	VEH SIG SEC (12")LED(GRN ARW)	EA	\$376.62	4	\$1,506
682	6003	VEH SIG SEC (12")LED(YEL)	EA	\$399.83	14	\$5,598
682	6004	VEH SIG SEC (12")LED(YEL ARW)	EA	\$408.97	4	\$1,636
682	6005	VEH SIG SEC (12")LED(RED)	EA	\$399.83	14	\$5,598
682	6006	VEH SIG SEC (12")LED(RED ARW)	EA	\$408.97	4	\$1,636
682	6018	PED SIG SEC (LED) (COUNTDOWN)	EA	\$445.70	8	\$3,566
682	6035	BACK PLATE (12") (3 SEC) (VENTED)ALUM	EA	\$112.89	18	\$2,032
684	6007	TRF SIG CBL (TY A) (12 AWG) (2 CONDR)	LF	\$1.42	1,420	\$2,016
684	6009	TRF SIG CBL (TY A) (12 AWG) (4 CONDR)	LF	\$1.84	1,420	\$2,613
684	6012	TRF SIG CBL (TY A) (12 AWG) (7 CONDR)	LF	\$2.00	5,190	\$10,397
686	6037	INS TRF SIG PL AM(S)1 ARM(36')	EA	\$6,570.00	1	\$6,570
686	6043	INS TRF SIG PL AM(S)1 ARM(40')LUM	EA	\$9,115.00	1	\$9,115
686	6057	INS TRF SIG PL AM(S)1 ARM(55')	EA	\$15,927.39	2	\$31,855
686	6063	INS TRF SIG PL AM(S)1 ARM(60')LUM	EA	\$22,102.46	1	\$22,102
686	6065	INS TRF SIG PL AM(S)1 ARM(65')	EA	\$22,320.78	1	\$22,321
687	6001	PED POLE ASSEMBLY	EA	\$1,792.22	3	\$5,377
688	6001	PED DETECT PUSH BUTTON (APS)	EA	\$704.56	8	\$5,636
688	6003	PED DETECTOR CONTROLLER UNIT	EA	\$3,248.80	1	\$3,249
6058	6001	BBU SYSTEM (EXTERNAL BATT CABINET)	EA	\$6,589.04	1	\$6,589
6292	6001	RVDS(PRESENCE DETECTION ONLY)	EA	\$8,150.00	6	\$48,900
6292	6002	RVDS(ADVANCE DETECTION ONLY)	EA	\$8,720.00	4	\$34,880
680	6004	REMOVING TRAFFIC SIGNALS	EA	\$3,893.19	5	\$19,466
624	6010	GROUND BOX TY D (162922)W/APRON	EA	\$1,037.90	3	\$3,114
627	6003	TIMBER POLE (CL 2) 50 FT	EA	\$1,743.82	8	\$13,951
690	6081	INSTL DOWN GUY AND ANCHOR W/GUARD	EA	\$225.00	16	\$3,600
610	6216	IN RD IL (TY SA) 40T-10 (250W EQ) LED	EA	\$3,954.05	2	\$7,908
628	6188	ELC SRV TY D 120/240 070(NS)SS(E)SP(O)	EA	\$4,942.62	1	\$4,943
618	6046	CONDT (PVC) (SCH 80) (2")	LF	\$10.59	30	\$318
618	6053	CONDT (PVC) (SCH 80) (3")	LF	\$16.47	60	\$988
618	6058	CONDT (PVC) (SCH 80) (4")	LF	\$20.08	70	\$1,406
618	6078	CONDT (RM) (4")	LF	\$96.50	50	\$4,825
620	6011	ELEC CONDR (NO.4) BARE	LF	\$2.77	125	\$346
620	6012	ELEC CONDR (NO.4) INSULATED	LF	\$2.94	180	\$529
620	6009	ELEC CONDR (NO.6) BARE	LF	\$1.49	125	\$187
621	6005	TRAY CABLE (4 CONDR) (12 AWG)	LF	\$2.75	465	\$1,279
684	6012	TRF SIG CBL (TY A) (12 AWG) (7 CONDR)	LF	\$2.29	1030	\$2,357
625	6001	ZINC-COAT STL WIRE STRAND (1/4")	LF	\$2.87	1020	\$2,922
625	6003	ZINC-COAT STL WIRE STRAND (3/8")	LF	\$3.07	850	\$2,609
625	6004	ZINC-COAT STL WIRE STRAND (5/16")	LF	\$3.82	1250	\$4,770
682	6001	VEH SIG SEC (12")LED(GRN)	EA	\$221.55	8	\$1,772
682	6003	VEH SIG SEC (12")LED(YEL)	EA	\$222.00	8	\$1,776
682	6005	VEH SIG SEC (12")LED(RED)	EA	\$220.50	8	\$1,764
682	6029	BACK PLATE (12") (3 SEC)ALUM	EA	\$100.92	8	\$807
636	6001	ALUMINUM SIGNS (TY A)	SF	\$24.08	68	\$1,638
6058	6001	BBU SYSTEM (EXTERNAL BATT CABINET)	EA	\$7,547.57	1	\$7,548
6306	6006	VIVDS TEMPORARY	EA	\$28,310.71	6	\$169,864
6306	6007	VIVDS CABLING	LF	\$2.82	595	\$1,678
		<b>CTMS</b>				
500	6001	MOBILIZATION (8%)	LS	\$33,141.24	1	\$33,141
624	6028	REMOVE GROUND BOX	EA	\$300.00	5	\$1,500
690	6001	REMOVAL OF CONDUIT	LF	\$9.00	3518	\$31,662
6007	6103	REMOVE FIBER OPTIC CABLE	LF	\$2.00	3181	\$6,362

SPEC	ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
6010	6013	REMOVE CCTV FIELD EQUIPMENT	EA	\$614.00	1	\$614
6163	6002	REMOVE EXISTING CABLES (POWER)	LF	\$2.00	590	\$1,180
618	6029	CONDT (PVC) (SCH 40) (3")	LF	\$24.00	4017	\$96,408
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	\$19.00	230	\$4,370
618	6046	CONDT (PVC) (SCH 80) (2")	LF	\$10.00	358	\$3,580
618	6053	CONDT (PVC) (SCH 80) (3")	LF	\$14.50	748	\$10,846
618	6054	CONDT (PVC) (SCH 80) (3") (BORE)	LF	\$20.50	63	\$1,292
618	6058	CONDT (PVC) (SCH 80) (4")	LF	\$17.00	2142	\$36,414
620	6009	ELEC CONDR (NO. 6) BARE	LF	\$2.50	932	\$2,330
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	\$2.50	205	\$513
624	6015	GROUND BOX TY 1 (247224) W/ APRON	EA	\$4,200.00	11	\$46,200
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	\$28.00	2274	\$63,672
6016	6007	ITS MULTI-DUCT CND (PVC-40) (BORE)	LF	\$16.00	83	\$1,328
6016	6010	ITS MULTI-DUCT CND (PVC-80)	LF	\$12.50	4835	\$60,438
6016	6011	ITS MULTI-DUCT CND (PVC-80) (BORE)	LF	\$20.00	83	\$1,660
6007	6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF	\$3.00	2082	\$6,246
6007	6017	FIBER OPTIC CBL (SNGLE-MODE) (144 FIBER)	LF	\$4.00	4111	\$16,444
7193	6008	CCTV CAMERA (INCL PAN, TILT AND LENS)	EA	\$245.00	1	\$245
7193	6011	CCTV CONTROLLER CABINET (POLE MNT)	EA	\$4,800.00	1	\$4,800
7193	6012	CCTV CAMERA POLE	EA	\$200.00	1	\$200
7193	6052	EQUIPMENT CABINET FOUNDATION	EA	\$7,000.00	1	\$7,000
6010	6002	CCTV FIELD EQUIPMENT (DIGITAL)	EA	\$8,084.00	1	\$8,084
6015	6001	FIBER OPTIC RS-232 DATA MODEM(S/M)	EA	\$879.00	1	\$879
		<b>DRAINAGE</b>				
500	6001	MOBILIZATION (8%)	LS	\$819,174.72	1	\$819,175
400	6002	STRUCT EXCAV (BOX)	CY	\$5.50	34,796.00	\$191,378
400	6003	STRUCT EXCAV (PIPE)	CY	\$4.50	5,298.00	\$23,841
400	6005	CEM STABIL BKFL	CY	\$120.00	11,271.00	\$1,352,520
402	6001	TRENCH EXCAVATION PROTECTION	LF	\$3.00	4,880	\$14,640
462	6003	CONC BOX CULV (4 FT X 2 FT)	LF	\$313.00	278	\$87,014
462	6011	CONC BOX CULV (6 FT X 4 FT)	LF	\$561.00	2,013	\$1,129,293
462	6043	CONC BOX CULV (12 FT X 10 FT)	LF	\$2,000.00	2,947	\$5,894,000
464	6005	RC PIPE (CL III)(24 IN)	LF	\$94.00	4,160	\$391,040
464	6007	RC PIPE (CL III)(30 IN)	LF	\$117.00	47	\$5,499
464	6008	RC PIPE (CL III)(36 IN)	LF	\$155.00	203	\$31,465
464	6010	RC PIPE (CL III)(48 IN)	LF	\$243.00	42	\$10,206
464	6013	RC PIPE (CL III) (66 IN)	LF	\$500.00	90	\$45,000
465	6009	JCTBOX (COMPL) (PJB) (5FTX5FT)	EA	\$8,005.00	1	\$8,005
465	6012	JCTBOX (COMPL) (PJB) (8FTX8FT)	EA	\$6,000.00	6	\$36,000
465	6160	INLET(COMPL)(PAZD)(FG)(4FTX4FT-4FTX4FT)	EA	\$10,000.00	1	\$10,000
465	6166	INLET(COMPL)(TY AAD)	EA	\$10,805.00	1	\$10,805
465	6168	INLET(COMPL)(TY A)	EA	\$5,033.00	2	\$10,066
465	6173	MANH (COMPL)(TY A)	EA	\$9,295.00	12	\$111,540
465	6176	INLET (COMPL)(CURB)(TY C1)	EA	\$12,532.00	43	\$538,876
465	6225	JCT BOX (COMPL)(SPL)	EA	\$32,365.00	4	\$129,460
465	6341	INLET (COMPL) (EXT) (TY CI)	EA	\$2,124.00	68	\$144,432
465	6412	MANH (COMPL)(TY A)(MOD)	EA	\$7,451.00	4	\$29,804
496	6008	REMOV STR (BOX CULVERT)	LF	\$24.00	1450	\$34,800
		<b>PUMP STATION</b>				
500	6001	MOBILIZATION (8%)	LS	\$597,326.80	1	\$597,327
		WET WELL EXCAVATION	CY	\$11.00	5,828	\$64,108
		CLEARING AND GRUBBING OF SITE	AC	\$21,600.00	1	\$21,600
		WET WELL DEWATERING DURING EXCAVATION - CARE OF WATER	VLF	\$7,800.00	10	\$78,000



SPEC	ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
		INLET PROTECTION BARRIER	EA	\$200.00	1	\$200
		SITE LIGHTING	LS	\$7,000.00	1	\$7,000
		6" CONCRETE PAVEMENT, (INCLUDES PAINTING, STRIPING, ETC)	SY	\$110.00	2,000	\$220,000
		CEMENT STABILIZED BASE	SY	\$6.00	2,000	\$12,000
		6' CHAINLINK FENCE	LF	\$60.00	500	\$30,000
		20' OPENING DOUBLE SWING GATE	LS	\$3,700.00	1	\$3,700
		REINFORCED FILTER FABRIC BARRIER	LF	\$15.00	550	\$8,250
		CONCRETE WASHOUT PIT	EA	\$1,700.00	1	\$1,700
		SITE DRAINAGE AND SWALES	LS	\$11,550.00	1	\$11,550
		SITE SIGNAGE	LS	\$11,550.00	1	\$11,550
		PUMP STATION CATWALK GRATING	SF	\$145.00	1,205	\$174,725
		SAFETY HANDRAILS FOR PUMP STATION CATWALK	LF	\$110.00	150	\$16,500
		HIGH STRENGTH GROUT	CY	\$260.00	1,930	\$501,800
		ROOF GRATING	SF	\$110.00	240	\$26,400
		LADDERS	LF	\$620.00	70	\$43,400
		30" X 36" ACCESS HATCH	EA	\$6,000.00	1	\$6,000
		48" X 40" ACCESS HATCH	EA	\$10,200.00	1	\$10,200
		LIGHTING INSIDE WET WELL	EA	\$13,500.00	1	\$13,500
		TRASH RACK	EA	\$20,000.00	1	\$20,000
		4' SAFETY RAILS FOR ROOF PLATFORM	LF	\$85.00	190	\$16,150
		SUBMERSIBLE COLUMN PUMP (FLYGT LL3602/866 1040)	EA	\$258,500.00	4	\$1,034,000
		CABLES FOR (4) PUMPS	EA	\$235.00	4	\$940
		SUBMERSIBLE CENTRIFUGAL SUMP PUMP (FLYGT NP3127 LT)	EA	\$21,560.00	1	\$21,560
		COLUMN PUMP GUIDE BARS	EA	\$325.00	4	\$1,300
		FORMED SUCTION INTAKE (FSI)	LS	\$14,000.00	4	\$56,000
		GROUT SURROUNDING FSI	LS	\$60,000.00	1	\$60,000
		SUMP CONCRETE BENCHING	EA	\$95,000.00	1	\$95,000
		LARGE PUMP DISCHARGE PIPE	LF	\$2,840.00	224	\$636,160
		6" SUMP DISCHARGE PIPE	LF	\$355.00	56	\$19,880
		2" COMBINATION AIR AND VACUUM VALVE	EA	\$5,150.00	4	\$20,600
		PUMP COLUMN SUPPORTS	EA	\$12,960.00	4	\$51,840
		AIR RELEASE VALVE	EA	\$8,316.00	4	\$33,264
		PIPE SADDLES	EA	\$5,940.00	4	\$23,760
		STAINLESS STEEL PIPE SLEEVE	EA	\$7,560.00	4	\$30,240
		48" FLAP GATE	EA	\$32,400.00	4	\$129,600
		CONCRETE OUTFALL BOX	CY	\$840.00	330	\$277,200
		REINFORCED CONCRETE SLAB	SF	\$18.00	3,000	\$54,000
		STR STEEL (SHEAR CONNECTOR)	LB	\$2.50	2,300	\$5,750
		STR STEEL (PLATE GIRDER)	LB	\$2.50	56,300	\$140,750
		STR STEEL (DIAPHRAM & STIFFENER)	LB	\$2.00	3,500	\$7,000
		STR STEEL (MISCELLANEOUS BRIDGE)	LB	\$2.50	12,400	\$31,000
		CL C CONC (MISC)	CY	\$620.00	2,065	\$1,280,300
		CL C CONC (MISC)(GENERATOR FOUNDATION)	CY	\$620.00	30	\$18,600
		GENERATOR BUILDING	SF	\$140.00	750	\$105,000
		MOBILIZATION AND TEMPORARY POWER	LS	\$25,000.00	1	\$25,000
		CENTERPOINT FACILITIES (DUCT BANK, CONDUCTORS, GROUNDING, BOND, ETC)	LS	\$31,300.00	1	\$31,300
		UNDERGROUND PULL BOXES	LS	\$12,680.00	1	\$12,680
		DUCT BANKS AND CONDUCTORS	LS	\$81,678.00	1	\$81,678
		ELECTRICAL EQUIPMENT PACKAGE	LS	\$654,550.00	1	\$654,550
		316 SS BOXES AND RACKS	LS	\$27,030.00	1	\$27,030
		LIGHTING AND GROUNDING PACKAGE	LS	\$17,780.00	1	\$17,780

SPEC	ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
		NATURAL GAS GENERATOR AND ENCLOSURE	EA	\$1,100,680.00	1	\$1,100,680
		PUMP STATION CONTROL PANEL	EA	\$49,100.00	1	\$49,100
		INSTRUMENTATION PACKAGE	LS	\$11,500.00	1	\$11,500
		SOFTWARE LICENSE/PROGRAMMING	LS	\$10,140.00	1	\$10,140
		TESTING, START UP, TRAINING	LS	\$13,070.00	1	\$13,070
		<b>UPRR</b>				
500	7001	MOBILIZATION (10%)	LS	\$1,654,989.60	1	\$1,654,990
442	7001	STR STEEL (PLATE GIRDER)	LB	\$3.00	1599993	\$4,799,979
		HANDRAIL	LF	\$130.00	280	\$36,400
405	6002	FOUNDATION LOAD TEST (D4945) (PILE)	EA	\$11,000.00	2	\$22,000
		STL H-PILING (HP14X102)	LF	\$150.00	9080	\$1,362,000
		CL F CONC (ABUT)(HPC)	CY	\$1,120.00	1580	\$1,769,600
478	7001	WATERPROOFING (TY 1)	SY	\$345.00	650	\$224,250
		STEEL BRIDGE BEARING	EA	\$3,500.00	40	\$140,000
		ABUTMENT DRAINAGE SYSTEM	EA	\$11,112.00	2	\$22,224
		TRACK CONSTRUCTION	LS	\$3,806,213.00	1	\$3,806,213
405	6002	FOUNDATION LOAD TEST (D4945) (PILE)	EA	\$11,000.00	4	\$44,000
		STL H-PILING	LF	\$150.00	5350	\$802,500
		CL F CONC (RETAINING WALLS) (HPC)	CY	\$1,120.00	1580	\$1,769,600
403	7001	TEMPORARY SPL SHORING	SF	\$125.00	5000	\$625,000
		RETAINING WALL DRAINAGE SYSTEM	EA	\$8,630.00	1	\$8,630
462	7053	CONC BOX CULV (12 FT X 10 FT)	LF	\$3,000.00	300	\$900,000
403	7001	TEMPORARY SPL SHORING	SF	\$125.00	1740	\$217,500

<b>SUBTOTAL</b>	\$58,977,000
Mobilization (8%)	\$5,277,000
<b>SUBTOTAL W/ MOBILIZATION</b>	\$64,254,000
Contingency - 15%	\$9,638,000
<b>2024 ESTIMATED CSJ 0050-06-092 CONSTRUCTION TOTAL</b>	<b>\$73,892,000</b>

# Signature Certificate

Reference number: AIFOV-IYTLG-AHGES-AX3CW

## Signer

## Timestamp

## Signature

### Truman Edminster

Email: tedminster@ehrainc.com

Sent:

12 Aug 2024 21:27:31 UTC

Viewed:

12 Aug 2024 21:28:00 UTC

Signed:

12 Aug 2024 21:29:08 UTC

*Truman Edminster*

### Recipient Verification:

✓ Email verified

12 Aug 2024 21:28:00 UTC

IP address: 50.230.36.74

Location: Houston, United States

Document completed by all parties on:

12 Aug 2024 21:29:08 UTC

Page 1 of 1



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February 6, 2025

Ms. Allie Isbell, Assistant Transportation Director  
Ms. Jamila Owens, Assistant Transportation Director  
Houston-Galveston Area Council  
3555 Timmons Lane, Suite 100  
Houston, TX 77027

Sent Via Email: [allie.isbell@h-gac.com](mailto:allie.isbell@h-gac.com), [jamila.owens@h-gac.com](mailto:jamila.owens@h-gac.com)

**RE: MPO ID 18417/CSJ 0912-72-616 Shepherd-Durham Corridor Reconstruction Project, Cost Escalation and Regional Strategic Transportation Fund Adjustments**

Asst. Directors Isbell and Owens:

The City of Houston, in close coordination with the Memorial Heights Redevelopment Authority (MHRA) and Texas Department of Transportation Houston District, has been developing the Shepherd-Durham Corridor Reconstruction project since the Transportation Policy Council's award in 2020. The project, which is the second phase of improvements in the corridor building on MHRA's successful FY19 USDOT BUILD grant work, was originally programmed in the Transportation Improvement Program (TIP) with an eligible participating cost of \$50M and federal share of \$40M.

Since that time, market conditions and compliance with new drainage regulations have driven the cost of transportation infrastructure construction well above historic and planned levels of inflation. Indeed, TxDOT's Highway Cost Index has increased by over 75% between January 2020 and January 2025. Despite significant value engineering and risk management the construction bids received by the City for the Shepherd-Durham project on January 16, 2025 are reflective of these pricing pressures.

At this time, the project engineer-of-record has reviewed the submitted bids and recommended award to the lowest bidder, and the City is working with TxDOT to secure their concurrence prior to taking the contract to City Council for award. The current projected construction cost, inclusive of necessary soft costs and detailed in the attached, totals \$76.7 million with eligible participating costs totaling \$58.9 million. Consistent with the adopted Cost Overrun Policy, the City respectfully requests increased federal funding for the eligible participating costs on an 80/20 basis.

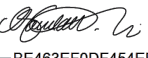
In addition, the City is excited to partner with H-GAC in establishing the Regional Strategic Transportation Fund (RSTF), and a TIP amendment is required to adjust project funding to recognize the use of Transportation Development Credits (TDCs) on this project, as authorized by the H-GAC Board. As proposed, the City would contribute \$5.9 million to capitalize the RSTF and perform an additional \$5.9 million of identified transportation improvements.



The City respectfully requests your assistance in preparing an amendment to the 2025-2028 Transportation Improvement Program for that reflects the proposed cost sharing and award of TDCs. Please see the attached exhibit with detailed information regarding this request.

Should you have any questions about this request, please contact David Wurdlow (832-395-2054 or David.Wurdlow@houstontx.gov).

Sincerely,

DocuSigned by:  
  
BE463EF0DF454EB...  
Randall V. Macchi, JD  
Director  
Houston Public Works

CC: Sherry Weesner, P.E., Memorial Heights Redevelopment Authority  
Grady Mapes, P.E., Texas Department of Transportation  
Catherine McCreight, Texas Department of Transportation  
Vishu Lingala, H-GAC  
Oluwole A. McFoy, P.E, Houston Public Works  
David Wurdlow, Houston Public Works  
Marlene Gafrick, City of Houston

**Shepherd Durham Corridor Reconstruction Project – Cost Escalation/RSTF Amendment****CURRENT:**

MPOID:	18417
CSJ:	0912-72-616
Street:	SHEPHERD-DURHAM CORRIDOR
Limits From:	W 15TH ST
Limits To:	IH 10 WB FR
Description:	RECONSTRUCT ROADWAY AND VARIOUS CROSS STREETS (11TH, 12TH, 14TH ST. AT VARIOUS LIMITS) INCLUDING RE-CONFIGURATION OF TRAVEL LANES FROM 4 TO 3, INTERSECTIONS, ADDITION OF BIKE FACILITIES AND PEDESTRIAN INFRASTRUCTURE.
Fiscal Year:	2025
Funding Category:	7-STBG
Federal:	40,000,000
Local:	10,000,000
Total:	50,000,000

**PROPOSED:**

MPOID:	18417
CSJ:	0912-72-616
Street:	SHEPHERD-DURHAM CORRIDOR
Limits From:	W 15TH ST
Limits To:	IH 10 WB FR
Description:	RECONSTRUCT ROADWAY AND VARIOUS CROSS STREETS (11TH, 12TH, 14TH ST. AT VARIOUS LIMITS) INCLUDING RE-CONFIGURATION OF TRAVEL LANES FROM 4 TO 3, INTERSECTIONS, ADDITION OF BIKE FACILITIES AND PEDESTRIAN INFRASTRUCTURE.
Fiscal Year:	2025
Funding Category:	7-STBG
Federal:	58,950,000
Local:	0
Total:	58,950,000
Funding Category:	3-LOCAL CONT
Local Contribution:	17,740,000
Funding Category:	TDCs
TDCs:	11,790,000

**Shepherd Durham Corridor Reconstruction Project, MPOID 18417, CSJ 0912-72-616  
Project Costs and Funding Analysis, January 2025**

<b>Current Cost Estimate</b>	<u>Eligible Participating Costs</u>	<u>Non-Participating Costs</u>	<u>Cost Share</u>	<u>Notes</u>
General Items (Incl. Removal & Traffic Control Items)	\$ 6,842,330.52			
Paving Items	\$ 15,011,041.00			
Signals, Streetlights, Signing & Markings	\$ 4,343,020.04			
Stormwater System	\$ 15,274,555.00			
Landscaping & Urban Design Items	\$ 12,002,795.17			
Water Utility		\$ 3,546,526.64		
Wastewater Utility		\$ 12,575,030.00		
Cash Allowance	\$ 121,500.00			
<b>Subtotal (Low Bid):</b>	<b>\$ 53,595,241.73</b>	<b>\$ 16,121,556.64</b>		
Material Testing Services:	\$ 1,607,857.25	\$ 483,646.70		Est. 3% of low bid, Pro-rata allocation
Construction Management & Inspection Services:	\$ 3,746,901.02	\$ 1,133,274.86		Est. 7% of low bid, Pro-rata allocation
<b>Projected Total Construction Cost:</b>	<b>\$ 58,950,000.00</b>	<b>\$ 17,738,478.20</b>		
<b>Original TIP funding</b>				
Federal	\$ 40,000,000.00		80% Federal	
Local	\$ 10,000,000.00		20% Local	
<b>Total</b>	<b>\$ 50,000,000.00</b>			
<b>Difference</b>	<b>\$ 8,950,000.00</b>	<b>\$ 17,738,478.20</b>		
<b>Difference, 80% Federal:</b>	<b>\$ 7,160,000.00</b>		80% Federal	
<b>Difference, 20% Local:</b>	<b>\$ 1,790,000.00</b>		20% Local	
<b>Total Eligible, 80% Federal:</b>	<b>\$ 47,160,000.00</b>		80% Federal	
<b>Total Eligible, 20% Local:</b>	<b>\$ 11,790,000.00</b>		20% Local	
<b>Requested TIP Funding</b>				
Federal TIP Funding	\$ 58,950,000.00		100% Federal	Reimbursement of eligible project costs
Non-Federal Match, TDCs	11,790,000.00			
Local Funding, Non-Participating Costs		\$ 17,740,000.00	100% Local	Rounded up for programming
<b>Local Funding Commitments, Regional Strategic Transportation Fund (RSTF)</b>				
Local Match, RSTF Contribution	\$ 5,895,000.00		10% Local - RTFS	(Paid to H-GAC)
Local Match, Projects in-lieu	\$ 5,895,000.00		10% Local - RTFS	(Committed to other transportation projects)

# H-GAC Transportation Development Credits Application

<b>Application ID</b>	25235
<b>Submitted By</b>	David Wurdlow
<b>Email Address</b>	david.wurdlow@houston.tx.gov
<b>Phone Number</b>	832-395-2054
<b>Sponsor Name</b>	City of Houston
<b>MPO ID</b>	18417
<b>TIP Project Description</b>	RECONSTRUCT ROADWAY AND VARIOUS CROSS STREETS (11TH, 12TH, 14TH ST. AT VARIOUS LIMITS) INCLUDING RE-CONFIGURATION OF TRAVEL LANES FROM 4 TO 3, INTERSECTIONS, ADDITION OF BIKE FACILITIES AND PEDESTRIAN INFRASTRUCTURE.
<b>Is this project currently in the TIP?</b>	Yes
<b>TIP Year</b>	2025
<b>Roadway, Transit, or Other Project?</b>	Roadway Project
<b>Explain and document how state or local matching funds will be reinvested in transportation projects within the 8 - county MPO region and are consistent with the RTP.</b>	In addition to the contribution of local funds to the Regional Strategic Transportation Fund, the City of Houston will reinvest \$5.895 million (equivalent to the other 10% of required non-federal match) in the rehabilitation of thoroughfares benefiting regional travel. (N.B. The local funds available to the City for investment in streets are dedicated by City Charter and cannot be directed to another purpose.)
<b>TDC Priority</b>	Other Regionally Significant Project
<b>Please explain how the use of TDCs will help meet the priority established for this project.</b>	Award of TDCs will enable a City of Houston contribution of \$5.895 million (equivalent to 10% of federal eligible project costs) to the H-GAC Regional Strategic Transportation Fund. Capitalizing the RSTF will provide non-federal funds to support the activities established by the Transportation Policy Council in the TDC Policy and Procedures.
<b>Federal Cost</b>	\$58,950,000
<b>TDC Request</b>	11,790,000
<b>Please explain the reason for the change in the TDC Request amount.</b>	Participate in capitalizing the RSTF, as approved by TPC and the H-GAC Board.
<b>Date Submitted</b>	2/6/25