



Date: May 6, 2022
To: Transportation Policy Committee (TPC)
From: Craig Casper, Senior Transportation Planner
Through: Robert MacDonald, Transportation Planning Director
Subject: Item 5A: FY 2021-2024 Transportation Improvement Program (TIP) Amendment 5
Action: Review, Discuss and Approve

Summary

Amendment 5 to the FY 2021-2024 TIP is offered to the Transportation Policy Committee for review, discussion, and approval. The Public Notice #22-3 related to the DRAFT FY 2021-2024 TIP Amendment 5 is provided as Attachment 1. There have been no public comments to date. This item is inextricably linked to Item 5B, FY 2021 - FY 2022 Unified Planning Work Program Amendment 1.

In our on-going discussions about planning tools and processes necessary for a performance-based system, the Corpus Christi MPO team requested an additional \$2.0 million in funding from the Surface Transportation Block Grant (Category 7) in order to fully fund projects and tools either required by regulation, suggested in guidance, or were asked for during the After-Action Report. These specific STBG funds do not require a local match because they are COVID relief funds. The specific deliverables and an initial preliminary cost are:

DELIVERABLE OVERVIEW	PRELIMINARY BUDGET*
An enhanced regional Travel Demand Model that includes time of day, enhanced assignment, multiple modes of travel, some method of addressing truck traffic, and expanded boundaries,	*Scope and Budget subject to change. \$450,000 - \$550,000
Regional scale meso-level traffic model to allow traffic analyses at both the corridor level and at individual signalized and unsignalized intersections, under multiple future scenarios, using industry standard methodologies,	\$350,000- \$400,000
Updated Congestion Management Process (CMP) using data provided by TxDOTs data license, detailed intersection analysis using INRIX IQ data and process, along with refining the regional Transportation System Management and Operations (TSMO) plan,	\$140,000 - \$150,000
Region-wide crash analysis with identified problem intersections and critical road corridors examined using the Vision Zero Suite crash tool, and develop a Regional Safety Action Plan in partnership with the Traffic Safety Task Force,	\$235,000-\$255,000
Completed regional Active Transportation/Micromobility Plan, including Walkability and Bikeability evaluation at a sub-neighborhood level throughout the region	\$175,000 - \$250,000
TIP Selection Tool to enhance project prioritization processes using a repeatable data-informed performance framework. Multiple Objective Decision Analysis (MODA) is the recommended framework to balance the tradeoffs among the multiple goals and objectives.	\$50,000 - \$60,000
Application of TREDIS for analyzing transportation projects for economic impacts, benefit-cost and internal rate of return / net present value.	TBD

Customizing FHWA's open-source Highway Economic Resource System (HERS) regional pavement management model to determine future life-cycle maintenance costs of classified roads within the region,	TBD
Utilizing the UrbanSim Socio-economic Allocation Model for the Metropolitan Statistical Area using 2020 Census and updated population and jobs forecasts to 2050, and developing multiple future scenarios,	\$55,000 - \$75,000 plus subscription fee
Interactions with local experts for Resiliency and Mitigation Planning assistance to investigate potential water quality and runoff impacts from climate change and development and when stormwater systems may be compromised by coastal flooding,	TBD
Developing a Regional Resiliency Plan,	TBD
Developing a regional Complete Streets Plan/Policy,	\$65,000 - \$75,000
Developing a Community Impact Assessment Model/Process, TBD (SoundPLAN, Hot Spot in MOVES, Walk/Bike/Transit, Accessibility, etc)	TBD

These changes are included in the Amended FY 2021- FY 2022 Unified Planning Work Program and in the revised Corpus Christi MPO FY 2021-2024 TIP with Amendment 5 document linked [HERE](#) and on the Corpus Christi website (www.corpuschristi-mpo.org). The excerpt from the FY 2021-2024 TIP with Amendment 5 illustrating the changes is provided in Attachment 2.

Prior Actions for FY 2021-2024 TIP

- July 2, 2020: TPC approved the Corpus Christi MPO FY 2021-2024 TIP
- Amendment 1 - Approved by the Transportation Policy Committee on Mar 4, 2021
- Amendment 2 - Approved by the Transportation Policy Committee on Apr 1, 2021
- Amendment 3 - Approved by the Transportation Policy Committee on Jul 1, 2021
- Amendment 4 - Approved by the Transportation Policy Committee on Dec 2, 2021

Recommendation

The Corpus Christi MPO staff and TAC both recommend that the Transportation Policy Committee review and approve the DRAFT FY 2021-2024 TIP with Amendment 5 as presented. No comments have been received to date.

Proposed Motion

Move to approve Amendment 5 to the FY 2021-2024 TIP as presented.

Financial Impact

The federal Consolidated Planning Grant (CPG) funding used by all MPOs is comprised of a combination of federal PL-112 planning funds from the Federal Highway Administration and FTA 5303 planning funds from the Federal Transit Administration. When MPOs need funding beyond this normal allocation, it is typical for an MPO to use a small portion of the federal Surface Transportation Block Grant (STBG) fund assigned to the MPO. In Texas, the federal STBG funding source is known as TxDOT Category 7 (CAT 7). The Corpus Christi MPO currently typically received approximately \$11 million of the CAT 7 funds each year with an 80/20 federal/state matching requirement. Though the federal budgeting process related to COVID relief efforts, the Corpus Christi MPO has been allocated an additional \$3,200,000 in CAT 7 funds that are available that are 100% federal funds. Therefore, these funds do not require the 20% state or local matching funds.

Attachments:

1. Public Notice #22-3
2. Excerpt of DRAFT FY 2021-2024 TIP Amendment 5 for STBG/CAT 7 Deliverables (Tables 13a and 13b)
3. DRAFT FY 2021-2024 TIP with Amendment 5 [\[WEBLINK\]](#)



PUBLIC NOTICE #22-3

April 14, 2022

The **Corpus Christi Metropolitan Planning Organization** (Corpus Christi MPO) is seeking public input and comments on the:

- **FY 2021 – FY 2022 Unified Planning Work Program (UPWP) Amendment 1,**
- **FY 2021 – 2024 Transportation Improvement Program (TIP) Amendment 5, and**
- **DRAFT FY 2023 and FY 2024 Unified Planning Work Program (UPWP).**

The UPWP serves as the scope of work for the Corpus Christi MPO and documents transportation-related planning activities conducted in the Corpus Christi MPO Planning Area. The FY 2021 – 2024 TIP identifies how the region plans to invest in the transportation system during the Fiscal Years 2021 through 2024. In accordance with the Corpus Christi MPO Public Participation Plan, the MPO is seeking to inform those who are interested in or affected by transportation decisions with opportunities to provide input on the FY 2021 – FY 2022 UPWP Amendment 1, FY 2021 – 2024 TIP Amendment 5, and DRAFT FY 2023 and FY 2024 UPWP.

The **FY 2021 – FY 2022 UPWP Amendment 1, FY 2021 – 2024 TIP Amendment 5, DRAFT FY 2023 and FY 2024 UPWP** are being released to the public on April 14, 2022 and public input is invited through May 12, 2022 at the following public meetings:

Public Comments may be provided in writing, limited to 1,000 characters, by emailing ccmpo@cctxmpo.us or by regular mail or hand-delivery to the Corpus Christi MPO offices at 602 N. Staples St., Suite 300, Corpus Christi, TX 78401, and MUST be submitted at least 1 hour before the start of a meeting in order to be provided for consideration and review at the meeting. To make a public comment at the meeting, please fill out the comment card and submit it to Corpus Christi MPO staff 10 minutes before the meeting starts. All Public Comments submitted shall be placed into the record of the meeting.

April 14, 2022, 2:00 p.m.*

MPO Transportation Policy Committee

Corpus Christi City Hall - Council Chambers
1201 Leopard Street, Corpus Christi, TX 78401

April 21, 2022, 9:00 a.m.*

MPO Technical Advisory Committee

Corpus Christi Regional Transportation Authority
602 N. Staples Street, 2nd Floor Board Room
Corpus Christi, TX 78401

May 12, 2022, 2:00 p.m.*

MPO Transportation Policy Committee

Corpus Christi City Hall - Council Chambers
1201 Leopard Street, Corpus Christi, TX 78401

**Meeting location and time subject to change, check MPO website for final location.*

www.corpuschristi-mpo.org

All Corpus Christi MPO Committee meetings are public meetings and open to all. Any person with disabilities who plan to attend this meeting and who may need auxiliary aids or services are requested to contact the Corpus Christi MPO at (361) 884-0687 at least 48 hours in advance so that appropriate arrangements can be made.

Table 13a. **DRAFT** FY 2021-2024 TIP Amendment 5 Fiscally Constrained Project List (For Illustration Purposes Only)

TIP Fiscal Year	CSJ	Project ID	Project Name	Project Phase / Status	Description	From Limit	To Limit	Sponsor	TxDOT System	Funding Category	Construction Cost (\$, millions)	CAT2	CAT4	CAT7	CAT9	CAT12	Local/Other	Prior Funding	Total Project Cost (\$, millions)
2024	0617-01-177	MPO-001	SH 358 (SPID) Ramp Reversal	Construction / Design	Ramp reversal Phase II-B	Nile Drive	Staples Street	TxDOT-CRP	On	2	\$35.00	\$35.00							\$45.43
2021	0074-06-241	MPO-002	I-37	Construction	Widen freeway by constructing additional 2 travel lanes northbound and 1 additional travel lane southbound	Redbird Lane (Overpass)	Nueces River	TxDOT-CRP	On	2 / 4U / 12	\$60.00	\$12.00	\$15.00			\$33.00			\$77.88
2021	0101-04-120	MPO-003	US 181	Construction	Widen freeway by constructing 1 additional travel lane in each direction	North of FM 3296 (Buddy Ganem Drive)	FM 2986 (Wildcat Drive)	TxDOT-CRP	On	2 / 4U	\$14.00	\$2.00	\$12.00						\$18.17
2021	0101-04-114	MPO-004	US 181 Ramp Reversals	Construction	Reverse entrance and exit ramps in Northbound direction	FM 3296 (Buddy Ganem Drive)	FM 2986 (Wildcat Drive)	TxDOT-CRP	On	2	\$4.00	\$4.00							\$5.19
2023	1209-01-030	MPO-006	FM 893 (Moore Avenue)	Construction / Design	Upgrade from 2-lane roadway to 5-lane urban roadway by constructing additional 2 lanes and CLTL	CR 3685 (Stark Road)	0.2 miles West of CR 79 (Gum Hollow)	TxDOT-CRP	On	2	\$7.00	\$7.00							\$9.09
2024	0916-35-195	MPO-007	Harbor Bridge Hike and Bike - Connectivity	Construction	Construct pedestrian and bike facilities	On various city streets from Coles High School	Williams Memorial Park	City of Corpus Christi	Off	7	\$1.42			\$1.42					\$1.84
2024	0916-35-196	MPO-009	Harbor Bridge Park Improvements	Construction	Park mitigation for Harbor Bridge	At various city parks including	Ben Garza, TC Ayers, and new location	City of Corpus Christi	Off	7	\$4.80			\$1.30			\$3.50		\$6.23
2021	N/A	MPO-066	Various TASA Projects	NEPA, ROW, Design, or Construction	Projects by various entities throughout the Corpus Christi MPO region eligible for the TASA program funded with CAT 9 and matching funds.	At various locations	N/A	Various	Off	9	\$2.41				\$2.41				\$2.41
2022	N/A	MPO-067	Implement enhanced tools and data analysis for use in short-range programming and long-range planning.	N/A	Implement enhanced tools and data analysis for use in short-range programming and long-range planning.	Travel Demand Model, Resiliency Model, Socio-Economic Allocation Model, Pavement Management Model,	Regional Safety Plan, Regional Active Transportation Plan, Regional Resiliency Plan, Regional Complete Streets Plan, Congestion Management Program	MPO	On	7				\$2.00					\$2.00
2021	N/A	CCRTA-036	FY21 Bus Stop amenities	Transit Maintenance/Operations	Bus Stop amenities	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.85						\$0.85		\$0.85
2021	N/A	CCRTA-037	FY21 Bus Stop Improvements	Transit Maintenance/Operations	Bus Stop Improvements	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00
2021	N/A	CCRTA-038	FY21 Support/Relief Vehicles	Capital	Support/Relief Vehicles	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.21						\$0.21		\$0.21
2021	N/A	CCRTA-039	FY21 Rolling Stock (All variety of rolling stock)	Capital	Rolling Stock (All variety of rolling stock)	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$7.37						\$7.37		\$7.37
2021	N/A	CCRTA-040	FY21 Bus Support Equipment and Facilities/Hardware/Software	Transit Maintenance/Operations	Bus Support Equipment and Facilities/Hardware/Software	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.21						\$0.21		\$0.21
2021	N/A	CCRTA-041	FY21 Engine Overhaul Program	Transit Maintenance/Operations	Engine Overhaul Program	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.64						\$0.64		\$0.64
2021	N/A	CCRTA-042	FY21 Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	Transit Maintenance/Operations	Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.09						\$0.09		\$0.09
2021	N/A	CCRTA-043	FY21 Bus Support Equipment and Facilities/Hardware/Software	Transit Maintenance/Operations	Bus Support Equipment and Facilities/Hardware/Software	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$1.21						\$1.21		\$1.21
2021	N/A	CCRTA-044	FY21 Bus Stop Amenities	Transit Maintenance/Operations	Bus Stop Amenities	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.86						\$0.86		\$0.86
2021	N/A	CCRTA-045	FY21 Bus Stop Improvements	Transit Maintenance/Operations	Bus Stop Improvements	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00
2021	N/A	CCRTA-046	FY21 Mobile Bus Lift	Transit Maintenance/Operations	Mobile Bus Lift	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.05						\$0.05		\$0.05
2021	N/A	CCRTA-047	FY21 5310 Sub-recipient	Transit Maintenance/Operations	5310 Sub-recipient	N/A	N/A	Corpus Christi RTA	Off	FTA-5310	\$0.40						\$0.40		\$0.40
2021	N/A	CCRTA-048	FY21 Preventive Maintenance	Transit Maintenance/Operations	Preventive Maintenance	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00
2021	N/A	CCRTA-071	FY21 Bus Support/Equipment & Facilities/Hardware/Software	Transit Maintenance/Operations	Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.03								\$1.03
2022	N/A	CCRTA-049	FY22 5310 Sub-recipient	Transit Maintenance/Operations	5310 Sub-recipient	N/A	N/A	Corpus Christi RTA	Off	FTA-5310	\$0.40						\$0.40		\$0.40
2022	N/A	CCRTA-050	FY22 Westside Station near DMC West Campus	Capital	Westside Station near DMC West Campus	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$5.10						\$5.10		\$5.10
2022	N/A	CCRTA-051	FY22 Bus Stop Amenities	Transit Maintenance/Operations	Bus Stop Amenities	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.94						\$0.94		\$0.94
2022	N/A	CCRTA-052	FY22 Preventive Maintenance	Transit Maintenance/Operations	Preventive Maintenance	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00

Table 13a. **DRAFT** FY 2021-2024 TIP Amendment 5 Fiscally Constrained Project List (For Illustration Purposes Only)

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2022	N/A	CCRTA-053	FY22 Rolling Stock (All variety of rolling stock)	Capital	Rolling Stock (All variety of rolling stock)	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00
2022	N/A	CCRTA-054	FY22 Support/Relief Vehicles	Capital	Support/Relief Vehicles	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.34						\$0.34		\$0.34
2022	N/A	CCRTA-055	FY22 Bus Stop Improvements	Transit Maintenance/Operations	Bus Stop Improvements	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.50						\$0.50		\$0.50
2022	N/A	CCRTA-056	FY22 Bus Support Equipment and Facilities/Hardware/Software	Transit Maintenance/Operations	Bus Support Equipment and Facilities/Hardware/Software	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.09						\$1.09		\$1.09
2022	N/A	CCRTA-072	FY22 Park and Ride - Land	Capital	Land Acquisition	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.10						\$1.10		\$1.10
2023	N/A	CCRTA-057	FY23 Rolling Stock (All variety of rolling stock)	Capital	Rolling Stock (All variety of rolling stock)	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$8.54						\$8.54		\$8.54
2023	N/A	CCRTA-058	FY23 Support/Relief Vehicles	Transit Maintenance/Operations	Support/Relief Vehicles	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.31						\$0.31		\$0.31
2023	N/A	CCRTA-059	FY23 Bus Stop Improvements	Transit Maintenance/Operations	Bus Stop Improvements	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.50						\$0.50		\$0.50
2023	N/A	CCRTA-060	FY23 Preventive Maintenance	Transit Maintenance/Operations	Preventive Maintenance	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00
2023	N/A	CCRTA-061	FY23 Bus Stop amenities	Transit Maintenance/Operations	Bus Stop amenities	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.99						\$0.99		\$0.99
2023	N/A	CCRTA-062	FY23 Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	Transit Maintenance/Operations	Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.05						\$0.05		\$0.05
2023	N/A	CCRTA-063	FY23 Section 5310 Sub-recipients	Transit Maintenance/Operations	Section 5310 Sub-recipients	N/A	N/A	Corpus Christi RTA	Off	FTA-5310	\$0.40						\$0.40		\$0.40
2023	N/A	CCRTA-073	FY23 Park and Ride - Land	Capital	Land Acquisition	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.90						\$0.90		\$0.90
2024	N/A	CCRTA-064	FY24 (est. by MPO) Rolling Stock (All variety of rolling stock)	Capital	Rolling Stock (All variety of rolling stock)	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$6.72						\$6.72		\$6.72
2024	N/A	CCRTA-065	FY24 (est. by MPO) Support/Relief Vehicles	Capital	Support/Relief Vehicles	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.31						\$0.31		\$0.31
2024	N/A	CCRTA-066	FY24 (est. by MPO) Bus Stop Improvements	Transit Maintenance/Operations	Bus Stop Improvements	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$0.50						\$0.50		\$0.50
2024	N/A	CCRTA-067	FY24 (est. by MPO) Preventive Maintenance	Transit Maintenance/Operations	Preventive Maintenance	N/A	N/A	Corpus Christi RTA	Off	FTA-5307	\$1.00						\$1.00		\$1.00
2024	N/A	CCRTA-068	FY24 (est. by MPO staff) Bus Stop amenities	Transit Maintenance/Operations	Bus Stop amenities	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.99						\$0.99		\$0.99
2024	N/A	CCRTA-069	FY24 (est. by MPO staff) Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	Transit Maintenance/Operations	Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment	N/A	N/A	Corpus Christi RTA	Off	FTA-5339	\$0.05						\$0.05		\$0.05
2024	N/A	CCRTA-070	FY24 (est. by MPO staff) Section 5310 Sub-recipients	Transit Maintenance/Operations	Section 5310 Sub-recipients	N/A	N/A	Corpus Christi RTA	Off	FTA-5310	\$0.40						\$0.40		\$0.40

Table 13b. **DRAFT** FY 2021-2024 TIP Amendment 5 Fiscally Constrained Project List – Roll Forward with Prior Funding Project List (For Illustration Purposes Only)

TIP Fiscal Year	CSJ	Project ID	Project Name	Project Phase	Description	From Limit	To Limit	Sponsor	TxDOT System	Funding Category	Construction Cost (\$, millions)	CAT2	CAT4	CAT7	CAT9	CAT12	Local/Other	Prior Funding	Total Project Cost (\$, millions)
2021	0101-06-095	TxDOT-001	Harbor Bridge	Design, or Construction	Construct New Bridge, Approaches, Interchanges, and Highway Improvement	North Beach Ave	Morgan Ave@Crosstown Expwy	TxDOT-CRP	On	2M, 6, 7, 12	\$807.80	\$12.60		\$19.20		\$485.00			\$807.80
2021	0101-06-111	MPO-008	US 181 Harbor Bridge Voluntary Relocation Program	ROW	US 181 Harbor Bridge Voluntary Relocation Mitigation Program	N/A	N/A	MPO	Off	7 / Local / ROW	\$57.30			\$17.30			\$20.00	\$20.00	\$57.30
2024	N/A	MPO-030	Future Category 9 Projects	NEPA, ROW, Design, or Construction	Projects selected through competitive process	N/A	N/A	TBD	On/Off	9	\$2.39				\$2.39				\$2.39