DESTINO 2021-2024

TRANSPORTATION IMPROVEMENT PROGRAM





El Paso Metropolitan Planning Organization

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DESTINO 2021-2024 Transportation Improvement Program (TIP)



El Paso Metropolitan Planning Organization

211 N. Florence, Room 202

El Paso, Texas 79901

Phone: (915) 212-0258 Fax: (915) 212-0257

www.elpasompo.org

Public Comment/Involvement period

March 29th – April 28th October 16th - 23th November 6th - 13th January 15th - 22nd 2021

Virtual public meeting

April 8th, 2020

Participating Agencies

City of Anthony, NM
City of El Paso, TX
City of San Elizario, TX
City of Socorro, TX
City of Sunland Park, NM
County of El Paso, TX
Dona Ana County, NM
Otero County, NM
Town of Anthony, TX
Town of Clint, TX
Town of Horizon City, TX
Village of Vinton, TX
New Mexico Department of Transportation, District 1
New Mexico Department of Transportation, District 2
Texas Department of Transportation, El Paso District 24

Prepared by:

El Paso Metropolitan Planning Organization

Approved by:

Transportation Policy Board (TPB), May 22, October 23, November 13, 2020 & Jan 22, 2021

Submitted to:

FHWA and FTA

Prepared in cooperation with the Texas Department of Transportation, the New Mexico Department of Transportation, the U.S. Department of Transportation, the Federal Highway Administration and the Federal Transit Administration.

1. Metropolitan Planning Organization

Federal regulations require the creation and management of a Metropolitan Planning Organization (MPO) for every urban area having a population of more than 50,000. Federal regulations require that the TIP shall cover a period of not less than four years, and be updated at least every four years. The El Paso MPO, which was designated by the City of El Paso, Texas, in 1988, produces a fiscally constrained TIP covering a period of four years.

The El Paso's Transportation Policy Board (TPB) is responsible for transportation planning and programming for the El Paso MPO. The TPB directs MPO staff through the Executive Director of the MPO. The MPO office is located at 211 N. Florence, Room 202, El Paso, Texas. The MPO's planning area is El Paso County, Texas, southern Dona Ana County, New Mexico, and a small portion of Otero County, New Mexico. The MPO coordinates urban area-wide multi-modal transportation plans, which involve the study of present transportation regional patterns in relation to current and projected development.

The MPO is responsible for the preparation of the Metropolitan Transportation Plan (MTP), Transportation Improvement Program (TIP), Unified Planning Work Program (UPWP), and other documents as required by federal regulations. The MTP and the TIP accommodate future traffic by improving transportation facilities and programs, expanding transit services, and planning new highways and arterials.

2. Role of the Transportation Policy Board

The Transportation Policy Board (TPB) was established for the purpose of setting transportation policy to ensure that regional transportation projects and studies are developed in accordance with federal and state laws, rules and regulations. The TPB is composed of elected public officials from local governments, membership from the Texas Department of Transportation (TXDOT), the New Mexico Department of Transportation (NMDOT), Texas and New Mexico State Senators and Representatives, the City of El Paso's mass transit provider, and Sun Metro. See section six for the structure of the Transportation Project Advisory Committee (TPAC), which makes recommendations to the TPB for approval of project selection, and technical issues for planning and programming transportation projects in the region.

3. Purpose of the Transportation Improvement Program

The TIP is a short-range program of transportation improvements for the MPO's planning area, and is required by federal law. The TIP is prepared and coordinated by MPO staff with participating agencies that implement transportation projects and programs in accordance with regulations issued by the United States Department of Transportation.

Before adoption by the TPB, the draft TIP is reviewed by the implementing agencies, and is presented for public involvement for at least 30 days. Local officials, the Texas Department of Transportation, the New Mexico Department of Transportation, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) use the adopted TIP as a guide in budgeting funds for regional transportation improvements.

The Destino 2021-2024 TIP is consistent with the El Paso MPO's Destino 2045 Metropolitan Transportation Plan (MTP). The El Paso MPO's Destino documents were produced through a Comprehensive, Cooperative, and Continuing transportation planning process carried on by the MPO in consultation with TXDOT, NMDOT, and the public transit operator(s) in the region. The TIP contains all projects to be funded with federal transportation funds, as well as all regionally significant transportation projects funded with non-federal funds.

The inclusion of a project in the TIP reflects a consensus of priority needs among the citizens living in the MPO study area, locally-elected officials, local transportation agency representatives, transit providers, and representatives of TXDOT and the NMDOT. The TIP is, in effect, a listing of transportation priorities, estimated costs and recommended implementation dates. The TIP may be amended as transportation needs and/or funding levels change.

4. Definition of Area

The City of El Paso, as an urban area having a population of over 200,000, is classified as a Transportation Management Area (TMA). The TMA designation applies to the overall metropolitan planning area, which includes the following primary participants:

- City of El Paso
- City of San Elizario
- City of Socorro, TX
- El Paso County
- Mass Transit Provider Sun Metro
- Town of Anthony, TX
- Town of Clint, TX
- Town of Horizon City, TX
- TXDOT-El Paso District
- Village of Vinton, TX
- City of Anthony, NM
- City of Sunland Park, NM
- Dona Ana County, NM
- NMDOT-District 1
- NMDOT-District 2
- Otero County, NM

5. Public Participation Plan

The intent of the Public Participation Plan (PPP) for the El Paso Metropolitan Planning Organization (MPO) is to include residents living in the MPO's Study Area, community groups, private and public agencies, and transportation providers in an effort that is proactive and that provides complete information, timely public notice, and full public access to key decisions made through the MPO. The PPP supports early and continuing involvement of the public in developing transportation plans and programs. All documents have, as a minimum, 30 days of continuing public review and comment periods. Concerns of a wide variety of involved parties are integrated into the PPP and the plan encourages and

provides for the greatest level of education on transportation issues. Opportunities for residents to contribute ideas and voice opinions early and often, both during and after the preparation of draft plans and programs is provided by the PPP.

Every effort is made to accommodate traditionally under-served audiences, including low-income and minority households, and persons with disabilities. A concerted effort is made to hold public meetings, public hearings, and open houses at locations that comply with the Americans with Disabilities Act (ADA) requirements, as well as locations in the vicinity of scheduled bus routes.

In compliance with Environmental Justice requirements, the MPO will respond to the needs of low-income and minority populations by choosing meeting locations, times and formats that are appropriate, accessible and reassuring to affected populations. All accommodations for the visual and/or hearing impaired and Spanish-speaking individuals are provided upon request prior to all public meetings. All public meeting announcements are announced on the MPO website and are published in various local periodicals and announced on regional radio stations.

The PPP applies to the MTP, TIP and may be utilized—with appropriate modifications—for any other MPO document requiring public involvement, including the Public Participation Plan itself, which requires 45 days of public review. Specific Public Participation Plan measures are described in:

- The Metropolitan Transportation Plan (MTP)
- The Transportation Improvement Program (TIP)
- Amendments to Adopted Documents

For a complete copy of the MPO's Public Participation Plan, please contact the MPO at (915) 212-0258 or log on the MPO's web page at www.elpasompo.org.

6. Project Selection Process

The TPAC has sixteen (16) voting members. The TPAC makes recommendations to the TPB on issues related to the MTP, TIP, UPWP, transportation studies, and project selection criteria. The TPAC reviews and makes recommendations to the TPB on projects for inclusion in the MPO's MTP and TIP. The TPAC has regularly scheduled monthly meetings, but holds special meetings as necessary. The TPAC members are selected by their agency. Nine (9) voting members of the TPAC (50% plus 1) constitutes a quorum.

Table 1. The Transportation Project Advisory Committee's membership as of 01/28/2020:

Voting Members:	
City of El Paso	1 member
Texas Department of Transportation	1 member
El Paso County (designated by Commissioner's Court)	1 member
Town of Horizon City	1 member
Village of Vinton	1 member
Town of Anthony, TX	1 member

City of Anthony, NM	1 member
City of Socorro	1 member
City of Sunland Park, NM	1 member
City of San Elizario	1 member
Ysleta Del Sur Pueblo	1 member
Sun Metro	1 member
Town of Clint	1 member
New Mexico Department of Transportation (NMDOT)	1 member
Doña Ana County, New Mexico	1 member
University of Texas at El Paso	1 member

The El Paso MPO's Transportation Policy Board (TPB) approved a two-tier project selection process that includes requirements for both the MAP-21 National Goals and the Congestion Management Process strategies. MAP-21 requires MPOs to establish and use a performance-based approach to transportation decision making and development of transportation plans. The planning process established a cooperative, continuous, and comprehensive framework for making transportation investment decisions in metropolitan areas as defined in the MAP-21 Act. A methodology is necessary to reduce project deliverable delays and improve regional planning by the Project Selection Process (PSP). The Fixing America's Surface Transportation Act (FAST Act) maintains current program structures and funding shares between highways and transit, continues efforts of MAP-21, and includes streamlining the approval process for new transportation projects.

The phases of the project selection process begin with Phase 1 Call for projects and Phase 2 Need and Purpose. PSP Tier 1 (MTP) Phase 2.1 MAP-21 National Goals establishes national performance goals for the Federal-aid highway program in seven areas: safety, infrastructure condition, congestion reduction, system reliability, freight movement and economic vitality, environmental sustainability and reduced project delivery delays. PSP Tier 1 (MTP) Phase 2.2 MPO Congestion Management Process Strategies identified travel demand management strategies, traffic operation strategies, public transportation strategies, road capacity strategies and non-CMP strategies. PSP Tier 2 (TIP) Phases 2.3 through 2.3H evaluates a project based on information provided by the sponsoring agency for project financing and project readiness. Phase 3 is the development of a draft Project List, Phase 4 is the TPAC Recommendation, Phase 5 is Public Involvement and Phase 6 is TPB action.

7. Performance Measures

Performance measures are quantifiable indicators of progress towards achieving the goals and objectives set forth in the Destino 2045 MTP. The United States Department of Transportation has enumerated several performance measures that the El Paso MPO will report progress towards to demonstrate compliance with MAP-21 and the FAST Act. The measures set forth by the USDOT can be considered "tracking" measures, as they rely primarily on observed data to identify trends. To help the MPO position itself to be successful at reporting progress towards the targets it will adopt through the Texas and New Mexico DOTs on the federal tracking measures. The Destino 2045 and the Destino 2021-2024 TIP proposes the use of several planning-level performance measures that the

MPO can estimate or forecast using its existing modeling tools. These measures provide a proxy for the relative performance of different mixes of potential TIP projects – i.e. "alternatives" – and to help the MPO select the best program of projects to help its meet the goals set forth by the community through the visioning process as well as the targets it will set under federal law.

The planning-level performance measures recommended for the Destino 2045 (Table 2) can be roughly categorized within the goals of the plan, although several of these measures indicate progress towards multiple goals. Additionally, some indicators (such as crash rates) that are useful for identifying deficiencies on the existing system are not easily adaptable to forecasting tools. For these goals, the Destino 2045 recommends performance measures that describe the overall program of projects' ability to introduce safety improvements at crash hotspots, replace deficient infrastructure, and address access and/or operational concerns at Ports of Entry.

Table 2. Performance Measures

	Table 2. Performance Measures
GOALS	ALTERNATIVES EVALUATION PERFORMANCE MEASURES
Safety	Number of projects that include safety enhancements located near
,	crash hotspots
Maintenance & Operations	Number of projects that repair or replace deficient bridges or
Transcending ex experiments	pavements
Mobility	Speed Index
Wiobinty	Annual hours of delay
	Percentage of jobs, key destinations, and population within ½ mile
	of high-quality, rapid transit
A 1111 0 TT 1	Commute times from Environmental Justice zones
Accessibility & Travel	Percentage non-SOV trips
Choice	Average trip costs
	Number of projects that improve operations or multimodal access at
	current or future POEs
0 . 1.77	Estimated emissions
Sustainability	Total VMT & VMT per capita
T	Annual hours of delay along major freight corridors
Economic Vitality	Percentage of jobs accessible within 30 minutes (by any mode)
	There is no specific performance measure for this goal. The indicator
Quality of Life	for this goal is a summary of performance on each goal alternative
	relative to the other alternatives.

8. Most Used TIP funding Sources

Table 3. The 12 Traditional federal funding sources used in Texas

CATEGORY	DESCRIPTION					
1-Preventive Maintenance and	Preventive maintenance and rehabilitation of the existing State					
Rehabilitation.	Highway System. The rehabilitation funds may be used for					
	rehabilitation of the Interstate Highway System main lanes,					
	frontage roads, structures, rehabilitation of signs, pavement					
	markings, striping, etc. The Transportation Planning and					
	Programming Division may approve the use of rehabilitation					

	funds for the construction of interchanges and HOV lanes on the Interstate Highway System. Rehabilitation funds may not be used for the construction of new SOV lanes.
2 – Metropolitan Area (TMA) Corridor Metro Projects	Mobility and added capacity projects on major state highway system corridors, which serve the mobility needs of the Metropolitan Areas (TMA) MPOs.
3 -Non-Traditional Funding	This funding category will place all the non-traditional funding categories in Texas into Category 3.
4 – Statewide Connectivity Corridor Projects	Mobility and added capacity projects on major state highway system corridors, which provide statewide connectivity between urban areas and corridors, serving mobility needs throughout the state.
5 – CMAQ	Addresses attainment of national ambient air quality standard in the non-attainment areas (currently Dallas-Fort Worth, Houston, San Antonio and El Paso). Funds cannot be used to add capacity for single occupancy vehicles.
6 – Consolidated Structure Rehabilitation	Replacement or rehabilitation of eligible bridges on and off the state highway system (functionally obsolete or structurally deficient). Replacement of existing highway-railroad grade crossings, and the rehabilitation or replacement of deficient railroad underpasses on the state highway system. Specific locations evaluated by cost-benefits derived index (benefits such as improved traffic flow, accident/fatality reduction).
7 – STP Metro-Mobility	Transportation needs within metropolitan area boundaries with populations of 200,000 or greater. Projects selected by Metropolitan Planning Organizations (MPOs).
8 – STP Safety – Federal Hazard Elimination Programs	Safety related projects – on and off state highway system. Projects are evaluated using three years of accident data, and ranked by Safety Improvement index.
8 – STP Safety – Federal Railway Highway Safety Program	Installation of automatic railroad warning devices at hazardous railroad crossing on and off state highway system, selected from statewide inventory list which is prioritized by index (# of trains per day, train speed, ADT, type of existing warning device, train-involved accidents within prior five years, etc).
9 – Enhancements	Projects above and beyond what normally is expected for transportation enhancements – twelve general activities as outlined since TEA-21. Projects recommended by local government entities, reviewed and recommended by committee, selected by Texas Transportation Commission.
9– Transportation Alternatives Set-Aside (TASA)	Transportation-related activities as described in the Transportation Alternatives Set-Aside Program, such as on and off-road pedestrian and bicycle facilities, and infrastructure projects for improving access to public transportation.
10 – Miscellaneous – State Park Roads 1992	Construction and rehabilitation of roadways within or adjacent to state parks, fish hatcheries, etc. subject to Memorandum of

	Agreement between TXDOT and TPWD. Locations selected and prioritized by TPWD.
10 - Miscellaneous-Railroad Grade Crossing Replanking Program 1992	Replacement of rough railroad crossing surfaces on the state highway system (approximately 140 installations per year statewide). Project selection based on conditions of the riding surface (highway, railroad and drainage) and cost per vehicle using the crossing.
10 - Miscellaneous-Railroad Signal Maintenance Program 1992	Contributions to each railroad company based on number of state highway system crossings and type of automatic devices present at each crossing.
10 - Miscellaneous- Construction Landscape Programs 1992	New landscape development projects such as typical Right of Way landscape development, rest area/picnic area landscape development, erosion control and environmental mitigation activities on the state highway system.
10 - Miscellaneous- (Federal) 1992	Federal programs such as Forest Highways, Indian Reservation Highways, Federal Lands Highways, and Ferry Boat Discretionary.
11 – District Discretionary	Miscellaneous projects on the state highway system selected at the district's discretion. A portion of these funds may be used off the state highway system.
12 – Strategic Priority	Commission selected projects, which promote economic development, provide system continually with adjoining states and Mexico or address other strategic needs as determined by the commission.
Proposition 1	Allocates money from the rainy day fund to State Highway Fund for construction, maintenance and rehabilitation.
Proposition 7	Supplies funding to the State Highway Fund from sales and use tax and state motor vehicle tax to build, maintain and restore non-tolled public roads.
FTA Section 5307	Mass Transit apportionment to urbanized areas based on population and operating performance.
FTA Section 5309	Funding for major transit capital investments, including heavy rail, commuter rail, light rail, streetcars, and bus rapid transit.
FTA Section 5339	Mass Transit discretionary funds for capital projects only.
FTA Section 5310	Provides federal funds to private nonprofit entities for the transportation of elderly and/or disabled persons.
FTA Section 5311	Rural Transit Program

9. Air Quality

The El Paso Metropolitan Planning Organization (MPO) requested the Texas Commission on Environmental Quality (TCEQ) to petition EPA for a re-designation of the Carbon Monoxide (CO) non-attainment area to attainment status, and EPA proposed approval of the re-designation request, and a maintenance plan on August 4, 2008. The proposal was a direct final, effective on October 3, 2008. The maintenance State Implementation Plan (SIP) for CO for the El Paso MPO was operating under a motor vehicle emission budget of 29.66 tons/day. The carbon monoxide (CO) limited maintenance plan was approved on September 8, 2017 (effective October 10, 2017).

For Particulate Matter 10 (PM-10) the SIP has a motor vehicle emissions budget of 12.05 tons/ day. Texas Administrative Code 30 TAC §111.147(1)(E) was developed in an effort to help develop a maintenance status for PM-10. These efforts include the pavement of new alleyways, unpaved alleyways not being used for residential garbage and recycling collection, and use of reclaimed asphalt pavement as an alternate means to pave the road. Texas Administrative Code 30 TAC §111.147(2) was developed to change the frequency of street sweeping in an effort that the City of El Paso can achieve the goal of street sweeping. In New Mexico, Doña Ana County implemented an erosion control regulations ordinance No 194-2000 to enhance the containment of PM-10 and reduction of negative health effects caused by the creation of fugitive dust. In addition, both the Texas and New Mexico developed a Natural Events Action Plan (NEAP). The NEAP provides analysis and documentation of the exceedances as attributable to uncontrollable natural events due to unusually high winds. In addition, the NEAP is designed to protect public health, educate the public about high wind events, mitigate health impacts on the community during future events, and identify and implement Best Available Control Measures (BACM) for man-made sources of windblown dust.

The MPO boundary had been expanded into a portion of Otero County and additional portions of Doña Ana County, New Mexico, a marginal PM-10 non-attainment area in Anthony, NM is within the area covered by the MTP and TIP. The New Mexico Department of Transportation (NMDOT) and their consultants may prepare a qualitative analysis of roadway projects that fall within the non-attainment area. A small portion of Dona Ana County (Sunland Park), NM was designated non-attainment under 2015 Ozone NAAQS on June 4, 2018 (Effective August 3, 2018) (83 FR 25776). The NMED is currently developing a nonattainment State Implementation Plan (SIP) for the Sunland Park area to meet the requirements of the 2015 O3 NAAQS. In general, a nonattainment SIP for a marginal area must include an emissions inventory, adoption of Reasonably Available Control Technologies (RACT), nonattainment permitting programs, and an emissions offsetting program. The emission inventories SIP will not include a Motor Vehicle Emissions Budget and must be submitted to EPA no later than August 3, 2020. The remainder of the nonattainment SIP elements must be submitted to EPA by August 3, 2021.

Before the TIP is given final approval by the Federal Highway Administration (FHWA), it must be approved for air quality conformity. The MPO prepares an Air Quality Transportation Conformity Statement for the TIP, and comments are received through the public involvement process. The conformity statement is forwarded to the Texas Department of Transportation (TXDOT) and New Mexico Department of Transportation (NMDOT), TCEQ and other state and federal agencies for review through the State Consultative Procedures.

The statement is sent to the Texas and New Mexico FHWA State Division office for review and final approval. The FHWA consults with the Federal Transit Administration (FTA), and the statement is forwarded to the EPA. The FHWA takes into account any comments received by the general public, TCEQ, FTA or the EPA concerning the advisability of constructing certain projects, and grants approval based on federal guidelines. A similar process is followed with New Mexico state agencies such as the New Mexico Environmental Department (NMED), and the New Mexico FHWA State Division office.

The Destino 2021-2024 TIP is part of the Destino 2045 MTP. Transportation Conformity for the Destino 2021-2024 TIP will be determined as part of the conforming Destino 2045 MTP. The conformity statement is evaluated according to the amount of carbon monoxide (CO),

particulate matter (PM-10), volatile organic components (VOCs) and oxides of nitrogen (NO_x) emissions that are projected from the existing transportation network along with proposed projects. Changes in conformity rules contain several important differences from previous conformity determinations. Budget tests are made for PM10 and CO, and the no-greater-than-baseline year interim emission test for Ozone.

MOVES 2014a, an emissions modeling tool to help determine the amount of emissions produced by vehicles, was be used for the Destino 2045 MTP and Destino 2021-2024 TIP. The Texas Transportation Institute (TTI) is under a TXDOT contract to run the MOVES model for El Paso.

Projects marked "Exempt" may proceed towards implementation even in the absence of a conforming transportation plan and TIP. The EPA listed certain categories of projects as being exempt from conformity requirements in the Federal Register.

El Paso County, and southern Dona Ana County, New Mexico, and a small portion of Otero County, New Mexico are included on the same traffic model for the purpose of conformity determination. Separate figures are calculated for each area for vehicle miles traveled (VMT) and emissions. The El Paso County conformity determination reports CO, and PM-10 emissions where they must conform to the motor vehicle emissions budget tests. Southern Doña Ana County (including Sunland Park, Santa Teresa, La Union and the Gadsden High School area) does not currently have any emission budget tests. No tests are run for the Anthony, New Mexico PM-10 non-attainment area, since only a qualitative analysis is required.

Once the Destino 2021-2024 TIP receives final approval by the Transportation Policy Board, this TIP is included in NM & TX Statewide Transportation Plans (STIP's), and the document will be available for distribution upon request.

10. Grouped Documentation

Under 23 CFR 450.324(i) projects proposed for FHWA and/or FTA funding that are not considered by the State and MPO to be of appropriate scale for individual identification in a given program year may be grouped by function, geographic area, and work type by using applicable classifications under 23 CFR 771.117(c) and (d). In non-attainment and maintenance areas, these classifications must be consistent with the exempt project classifications contained in the U.S. EPA transportation conformity requirements (40 CFR Part 51).

The El Paso MPO is participating by grouping some projects in the Transportation Improvement Program (TIP) that are covered in the Texas Statewide Transportation Improvement Program (STIP). The Texas STIP can be located at http://www.txdot.gov/government/programs/stips.html and the New Mexico STIP at https://www.dot.state.nm.us/content/nmdot/en/POD_Pubs.html. Financial accountability for these projects are the responsibility of the STIP, therefore, are not accounted for in the Financial Summary for the El Paso MPO totals. These projects are "exempt" from conformity requirements. These projects do not need policy approval by the TPB for the purpose of revisions. See the following grouped project categories, and the "Definition of Grouped Projects."

Table 4. Grouped Projects Categories

PROPOSED	GROUPED	DEFINITION				
CSJ (TXDOT)	PROJECT CATEGORY					
5000-00-950	PE – Preliminary Engineering	Preliminary Engineering for any project except added capacity projects in a nonattainment area. Includes activities which do not involve or lead directly to construction, such as planning and research activities; grants for training; engineering to define the elements of a proposed action or alternatives so that social, economic, and environmental effects can be assessed.				
5000-00-951	Right of Way Acquisition	Right of Way acquisition for any project except added capacity projects in a nonattainment area. Includes relocation assistance, hardship acquisition and protective buying.				
5000-00-952 5000-00-957 5000-00-958	Preventive Maintenance and Rehabilitation	Projects to include pavement repair to preserve existing pavement so that it may achieve its designed loading. Includes seal coats, overlays, resurfacing, restoration and rehabilitation done with existing ROW. Also includes modernization of a highway by reconstruction, adding shoulders or adding auxiliary lanes (e.g., parking, weaving, turning, climbing, non-added capacity) or drainage improvements associated with rehabilitation.				
5000-00-953	Bridge Replacement and Rehabilitation	Projects to replace and/or rehabilitate functionally obsolete or structurally deficient bridges.				
5000-00-954	Railroad Grade Separations	Projects to construct or replace existing highway-railroad grade crossings and to rehabilitate and/or replace deficient railroad underpasses, resulting in no added capacity.				
5800-00-950	Safety	Projects to include the construction or replacement/rehabilitation of guard rails, median barriers, crash cushions, pavement markings, skid treatments, medians, lighting improvements, highway signs, curb ramps, railroad/highway crossing warning devices, fencing, intersection improvements (e.g., turn lanes), signalization projects and interchange modifications. Also includes projects funded via the Federal Hazard Elimination Program, Federal Railroad Signal Safety Program, or Access Managements projects, except those that result in added capacity.				
5000-00-956	Landscaping	Project consisting of typical right-of-way landscape development, establishment and aesthetic improvements to include any associated erosion control and environmental mitigation activities.				
5800-00-915	Intelligent Transportation Systems Deployment	Highway traffic operation improvement projects including the installation of ramp metering control devices, variable message signs, traffic monitoring equipment and projects in the Federal ITS/IVHS programs.				
5000-00-916	Bicycle and Pedestrian	Construction or rehabilitation of bicycle and pedestrian lanes, paths and facilities.				
5000-00-917	Safety Rest Areas and Truck Weigh Stations	Construction and improvement of rest areas, and truck weigh stations.				
5000-00-918	Transit Improvements	Projects include the construction and improvement of small passenger shelters and information kiosks. Also includes the construction and improvement of rail storage/maintenance facilities bus transfer facilities where minor amounts of additional				

land are required and there is not a substantial increase in the
number of users. Also includes transit operating assistance,
acquisition of third-party transit services, and transit marketing, and
mobility management/coordination. Additionally includes the
purchase of new buses and rail cars to replace existing vehicles of
for minor expansions of the fleet [See Note 3].

Note 1: Projects funded with Transportation Alternatives Program (TAP), Transportation Enhancement, and Congestion Mitigation Air Quality funding require a Federal eligibility determination, and are not approved to be grouped.

Note 2: Projects funded as part of the Recreational Trails Program (RTP) consistent with the revised grouped project category definitions may be grouped. RTP projects that are not consistent with the revised grouped project category definitions must be individually noted in the Transportation Improvement Program (TIP) and State Transportation Improvement Program (STIP).

Note 3: In PM10 and PM2.5 nonattainment or maintenance areas, such projects may be grouped only if they are in compliance with control measures in the applicable implementation plan.

11. Americans with Disabilities Act (ADA)

During the planning process, every effort is made to accommodate the traditionally under-served public, including low-income and minority households and persons with disabilities. Concerted efforts are made to hold all public meetings, public hearings, and open houses at accessible locations that comply with Americans with Disabilities Act (ADA) requirements, as well as locations in the vicinity of scheduled bus routes. Additionally, TIP projects must comply with ADA requirements for accessibility.

12. MPO Glossary - Project Section

Table 5.

PROJECT CODE	DEFINITION	EXPLANATION
CSJ	Control Section Job Number	TXDOT-assigned number for projects entered into the Unified Transportation Plan (UTP)
CN	Control Number	NMDOT-number assigned for projects in New Mexico State Transportation Improvement Program (STIP)
PROJ ID	Project Identification	Code assigned by the MPO for local tracking/identification; used to relate projects to the Metropolitan Transportation Plan
F. CLASS	Federal Functional Classification	Federal classification of streets and highways into functional operating characteristics. Categories: Interstate Other Urban Freeways and Expressways Other Principal Arterials
FED PROG	Federal Funding Category	PM&R: Preventive Maintenance and Rehabilitation Metro ACP: Metropolitan Area (TMA) Corridor Projects Urban ACP: Urban Area (Non-TMA) Corridor Projects State CCP: Statewide Connectivity Corridor Projects CMAQ: Congestion Mitigation and Air Quality Improvement

		CSREHAB: Consolidated Structure Rehabilitation STP-MM: Surface Transportation Program - Metro-Mobility SAFE: Safety Projects ENHAN: Enhancement Projects					
		MISC: Miscellaneous Dist Discret: District Discretionary					
		STRATEGIC: Strategic Priority FTA: Federal Transit Administration					
		STP-L: New Mexico, Surface Transportation Program Large Urba: STP-FLEX: New Mexico, Surface Transportation Program					
		Flexible STP-TPS: New Mexico, Surface Transportation Program- Safety BOR/COR: Borders and Corridors					
PHASE	Project Phase for	T - Transfers C - Construction					
	Federal Funding	E - Preliminary Engineering R - Right of Way Acquisition					

Texas Highway Projects FHWA & Other Funds¹

¹ Congestion Mitigation and Air Quality (CMAQ) Analyses can be found in Appendix A provided upon request and/or attached into the electronic version of this document.

WEDNESDAY, JANUARY 13, 2021 11:50:55 AM

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2021 (SEPT - AUG) El Paso Metropolitan Planning Organiza							nning Organization				
DISTRICT	COUNTY	CSJ		HWY		PHASE	CIT	Υ	PROJECT SPO	NSOR Y	OE COST
TX DIST. 24	EP	0924-06-57	77	CS		C,E	El Pa	aso	COEP	\$	5,610,423
TIP PROJECT NAM	IE: Bicycle li	nfrastructure	Citywide					REVISION DATE:	07/2020		
LIMITS FROM:	Citywide ((Please see TI	P History for co	mplete st	treet names)			MPO PROJECT ID			
LIMITS TO:		•	P History for co	•	,			MTP REFERENCE			
TIP DESCRIPTION:	BicycleInf	frastructureCity	ywide:Construct	BikeFaci	litiesDowntow	nToInclude:Buffe	eredBikeLane	FUNDING CATEGO			
	ctWillIncl	udeAssociated	es,bikeblybs,d ISignage.Wayfir	nding.Stri	inewarkings,& iping.&Interse	ctionTreatments.		VOC (Kg/Day): 0.87		ay): 28.05	
REMARKS:				-		es limits-Exempt		NOX (Kg/Day): 1.50)8 PM 10 (K	g/Day): 1.458	
					•	·					
					1	ROJECT HISTO		04.710	TID: EV 0004 F		
Total Drainet	Coot Inform				;Pi	rogram Into_D20	. —	24 TIP and 21-24 S		=xempt	
Total Project Preliminary Engineer				i I		Federal Share		d Funding by Cate Regional Share		Lcl Contribution	Total Share
Right Of Way:	\$0 \$0	040	Cost of	Cat 5	CMAQ	\$4,488,338	\$0	\$0	\$1,122,085	\$0	\$5,610,423
Construction:	\$4,79	5.780	Approved	Cat 5				Φ0			
Construction Engine		0,. 00	Phases:	Fu	und by Share	\$4,488,338	\$0	\$0	\$1,122,085	\$0	\$5,610,423
Contingencies:	\$0		\$5,610,423								
Indirects:	\$0		4 0,010,1 <u>-</u> 0								
Bond Financing:	\$0										
Potential Change Or											
Total Project Cost:	\$5,610	0,423									
PROJECT AMENDA	MENT LISTO	NDV									
STIP Rev Date(s			Date Note/Ame	ndmont							
•	, , ,					D 40 00 CTID :	- FV 0004				
O7/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021. From: High Ridge from Resler; Escondido from Resler; Ojo de Agua from Westwind; Via Descanso from Ojo de Agua; Via Serena from Via Descanso; Marcus Uribe from Martin Luther King Jr; Sean Haggerty from US 54; Will Ruth from Dyer; Diana from US 54; Stahala from Diana; Hondo Pass from US 54; Magentic from Hondo Pass; Stanton from Cliff; Robinson from Oregon; Cotton from San Antonio; Sixth from Cotton; Val Verde from Paisano; Fonseca from Loop 375; Clark from Delta; Montwood from Viscount; Montwood from Zanzibar; Lomaland from Montwood; Phoenix from Hawkins; Alameda from Loop 375; Pellicano from George Dieter; Peter Cooper from Pellicano; George Dieter from Vista Del Sol; Bob Mitchell from George Dieter; Saul Kleinfeld from Turner; Nolan Richardson from Turner; Pebble Hills from Yarbrough; Lee Trevino from Edgemere To:High Ridge to Franklin Hills; Escondido to Westwind; Ojo de Agua to Via Descanso; Via Descanso to Via Serena; Via Serena to High Ridge; Marcus Uribe to Benny Emler; Sean Haggerty to Rushing; Will Ruth to McCombs; Diana to Railroad; Stahala to Hondo Pass; Hondo Pass to Magnetic to Atlas; Stanton to Brentwood; Robinson to Piedmont; Cotton to Sixth; Sixth to Campbell; Fonseca to Delta; Clark to Trowbridge; Montwood to McRae; Montwood to Lee Trevino; Lomaland to Trawood; Phoenix to Giles; Pellicano to Loop 375; Peter Cooper to Ben Proctor; George Dieter to Edgemere; Bob Mitchell to Saul Kleinfeld; Saul Kleinfeld to Bob Mitchell; Nolan Richardson to Pebble Hills; Pebble Hills to Lisa Sherr; Lee Trevino to Trawood								s 54; Stahala n San Antonio; ood from er Cooper from son from Serena to High ondo Pass; obell; Fonseca			
11/2019	2021 10/2019 Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reduce CAT 5 CMAQ from \$6,830,453 to \$5,610,423, update the Limits and Project Description in FY 2021-Exempt From: High Ridge from Resler; Ojo de Agua from Westwind; Will Ruth from Dyer; Stahala from Diana; Montwood from Yarbrough; Lomaland from Montwood; Pellicano from George Dieter; Peter Cooper from Pellicano; George Dieter from Vista del Sol; Pebble Hills from George Dieter To: High Ridge to Franklin Hills; Ojo de Agua to Via Descanso: Will Ruth to McCombs; Stahala to Hondo Pass; Montwood to Lee Trevino; Lomaland to Trawood; Pellicano to Loop 375; Peter Cooper to Ben Proctor; George Dieter to Montwood; Pebble Hills to Lisa Scherr										
07/2020	2021	2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt From: From: High Ridge from Resler; Ojo de Agua from Westwind; Will Ruth from Dyer; Stahala from Diana; Montwood from Yarbrough; Lomaland from Montwood; Pellicano from George Dieter; Peter Cooper from Pellicano; George Dieter from Vista del Sol; Pebble Hills from George Dieter To: High Ridge to Franklin Hills; Ojo de Agua to Via Descanso: Will Ruth to McCombs; Stahala to Hondo Pass; Montwood to Lee Trevino; Lomaland to Trawood; Pellicano to Loop 375; Peter Cooper to Ben Proctor; George Dieter to Montwood; Pebble Hills to Lisa Scherr							om George od to Lee		
11/2020	2021	11/2020	Westwind George D To: High I	; Sean H ieter; Pet Ridge to I r Cooper	aggerty to US ter Cooper froi Franklin Hills; to Missy Yvet	54 (Patriot Free m Pellicano; Geo Ojo de Agua to \ te Dr.; George D	way); Montwoo orge Dieter fron /ia Descanso:	od from Yarbrough; n Vista del Sol; Peb	Lomaland from I ble Hills from Ge Trevino; Lomala	om Resler; Ojo de A Montwood; Pellicano orge Dieter nd to Trawood; Pellid	from

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LIMITS TO:

Total Project Cost:

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



R307D

MTP REFERENCE:

FY 2021 (SEPT - AUG)

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-562	VARIOUS	C,E	El Paso	COEP	\$12,016,000
TIP PROJECT NA	AME: Central I	Business District Pha	se IV (CBD 4)		REVISION DA	ATE: 07/2020	
LIMITS FROM:	Central E	Business District			MPO PROJE	CT ID: R307D	

CBD4:St.ImprovementsOfCitysDtwnStsIncludes:CampbellKansas6thFatherRahm&Oregon. FUNDING CATEGORY: CAT 7 STP MM Kansas&CampbellConvertsTo2wayFrom8thToPaisano.KansasIncludesLnRedufrom3to2FromFatherRahmTo8th.CampbellincludesLnReduFrom3to2FromPaisanoto8th.BikeFacilitiesWil TIP DESCRIPTION:

IBeProvidedOnAllSts

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt Project will include Road Diets REMARKS:

\$13,894,385

* Note partial Preliminary	Engineering was	paid for in fiscal ye	ear 2018		ROJECT HISTO mend the D2045		TIP, 19-22 STIP to I	move from FY 20	020 to FY 2021 Exe	empt
Total Project Cost	Information:		Ţ			Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$3,680,785		į		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat 7	STP MM	\$9,612,800	\$0	\$0	\$2,403,200	\$0	\$12,016,000
Construction:	\$10,213,600	Approved	i,	Fund by Share	£0.642.000	¢0	¢ 0	£2.402.200	¢o.	£42.046.000
Construction Engineering	: \$0	Phases:	į '	rund by Share	\$9,612,800	\$0	\$0	\$2,403,200	\$0	\$12,016,000
Contingencies:	\$0	\$12,016,000								
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change Order:	\$0									

PROJECT AMENDME	NT HIST	TORY	
STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
			Amend to deprog from FY 2014 Cat7 in H13-16 TIP & prog in FY 2018 w/ Cat7 in H15-18 TIP (simultaneous submittal); includes PE par 2 & construction phase 1 (for PE part 1 see R307D-PE in FY 2014)
		10/2005	When Developing The 2006-2010 Amended Tip Terry Q Noted That Project Needs To Move (non Modeled) In The 2005 Net To Fy 2005 Therefore The Project Will Need To Move To The 2015 Network So An Amendment To 2030 Was Necessary.
	2007	08/2007	
	2010	03/2009	No Exact Date, But Project Was Amended Into Fy 2010 In 2008-2011 Stip/2008-2013 Tip (transborder Mtp)
	2012	05/2012	Moved To Fy 2012 In Tb Tip 2008-2013
	2014	08/2012	Moved W/ Develop Of Mission 2035 Mtp, 2011-2014 Tip Into Fy 2014. Cmaq=\$1,532,398 And Stp-mm=\$9,983,602
	2014	11/2012	Stayed In Fy2014 With Develop Of M13-16 Tip
	2014	10/2013	Increased Cost By \$500,000 From M2013-2016 To H2013-2016 Tip In Same Fy 2014, And Removed Cmaq Funding, Only Using Cat7 Stp
	2018	03/2014	Amend To Deprog From Fy 2014 Cat7 In H13-16 Tip & Prog In Fy 2018 W/ Cat7 In H15-18 Tip (simultaneous Submittal); Includes Pe Part 2 & Construction Phase 1 (for Pe Part 1 See R307d-pe In Fy 2014); Due To Coep Not Ready To Let In Fy 2014; During Fy 2014-2016 Tip Clean Up And Fy 2017-2018 Project Call
02/2016	2018	02/2016	Amend to deprogram from FY 2018 in the H2040 MTP, H15-18 TIP, 2015-2018 STIP
05/2016	2014	03/2016	Increased cost by \$500K; Removed CMAQ funds, using STP funds only w/ new MTP/TIP (Horizon 2040 MTP/ Horizon 2013-2016 TIP)
07/2016	2020	06/2016	Amend to program into H2040 MTP, H17-20 TIP, 17-20 STIP in FY 2020. EXEMPT
2/2018	2020	02/2018	Administratively amend H2040 MTP, H17-20 TIP, 17-20 STIP to change CSJ from 0924-06-190 to 0924-06-562. EXEMPT
07/2018	2020	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2020. Cost of Approved Phases: PE \$1,802,400 plus Const \$10,213,600 =\$12,016,000
11/2019	2020	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update the project description to include road diets. Exempt
02/2020	2021	01/2020	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to move from FY 2020 to FY 2021 Exempt
07/2020	2021	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt Project will include Road Diets
'STIP Rev Date(s)'	also refe	ers to TIP Administrat	tive Amendment (Local Revision) Date

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EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



				FY	2021 (SEPT - A	lUG)		ELF	aso Metropolitan Plan	ining Urganization
DISTRICT	COUNTY	CSJ		HWY	PHASE	CIT	Υ	PROJECT SPON	ISOR Y	DE COST
TX DIST. 24	EP	2551-01-01	11	FM 1905	С	Anth	ony	TXDOT	\$3	3,500,000
TIP PROJECT NAM	ME: FM 190	5 Reconstruction	on Roadway (S	6H20 to IH10)			REVISION DATE:	07/2020		
LIMITS FROM:	SH 20	(S MAIN ST)					MPO PROJECT ID			
LIMITS TO:	I-10						MTP REFERENCE	: A134X		
TIP DESCRIPTION	l: FM 190	05 Reconstruction	n Roadway (SH	20 to IH10): Reconstru	ction of Roadwa	y	FUNDING CATEGO	ORY: CAT 7 ST	P-MM	
REMARKS:	Progra	m into D2045 M1	TP, D21-24 TIP	and 21-24 STIP in FY	2021					
*Project Sponsor pa	aying for PE	and/or ROW Co	osts, if any.		ROJECT HISTO		TIP, 19-22 STIP to	program in 2021		
Total Projec	t Cost Info	mation:		Ţ		Authorize	d Funding by Cate	gory/Share		
Preliminary Engine	ering: \$50	0,000			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 7 STP-MM	\$2,800,000	\$700,000	\$0	\$0	\$0	\$3,500,000
Construction:	\$3,	500,000	Approved	Fund by Share	\$2 900 000	\$700,000	\$0	\$0	\$0	\$2 E00 000
Construction Engine	eering: \$0		Phases:	rulia by Share	\$2,800,000	\$700,000	φu	\$0	\$0	\$3,500,000
Contingencies:	\$0		\$3,500,000							
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change C	Order: \$0									
Total Project Cost	: \$4,0	000,000								
PROJECT AMEND	MENT HIS	TORY								
STIP Rev Date			Date Note/Ame	endment						
02/2020	2021	01/2020		e D2045 MTP, D19-23	TID 10 22 STIE	to program in	2021			
07/2020	2021	05/2020	•	into D2045 MTP, D21-2		4 STIP in FY 20	021			
'STIP Rev Date	` '	ers to TIP Admin	istrative Ameno	lment (Local Revision)	Date					
TX DIST. 24	EP	0924-06-60)2	CS	C,E	El Pa	aso	COEP	\$2	2,063,990
TIP PROJECT NAM	ME: Playa I	Orain Shared Us	ed Path (White	tier to Elvin) 2021			REVISION DATE:	07/2020		
LIMITS FROM:	Whittie	r Dr.					MPO PROJECT ID			
LIMITS TO:	Elvin V	/ay					MTP REFERENCE	: E404X		
TIP DESCRIPTION				er to Elvin) 2021: The pr	roject consists of	a shared	FUNDING CATEGO	ORY: Cat 9, Cat	3	
DEMARKS.	-		-	, and other amenities	2021 Everent					
REMARKS:	Progra	III IIIIO D2045 IVI	1P, D21-24 11F	and 21-24 STIP in FY	2021Exempt					
				;D	ROJECT HISTO	ıRV·				
							TIP, 19-22 STIP to	program in FY 20)21-Exempt	
Total Projec	t Cost Info	mation:					d Funding by Cate			
Preliminary Engine	ering: \$31	0,436			Federal Share		Regional Share		Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 9TAP TASA	\$1,651,192	\$0	\$0	\$412,798	\$0	\$2,063,990
Construction:	\$1,	753,554	Approved	Fund by Share	\$1,651,192	\$0	\$0	¢412.700	\$0	\$2,063,990
Construction Engine	eering: \$0		Phases:	rulia by Share	\$1,031,192	\$0	φU	\$412,798	φυ	\$2,003,990
Contingencies:	\$0		\$2,063,990							
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change C	Order: \$0									
Total Project Cost	: \$2,0	063,990								
PROJECT AMEND	MENT HIS	TORY								
STIP Rev Date		Note/Amend I	Date Note/Ame	endment						
11/2019	2021	10/2019		e D2045 MTP, D19-23	TIP 19-22 STIP	to program in	FY 2021-Exempt			
07/2020	2021	05/2020	ū	into D2045 MTP, D21-		401111111111111111111111111111111111111	.02 1Exempt			
STIP Rev Date	(s) also ref	ers to TIP Admin	istrative Amend	lment (Local Revision)	Date					

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07/2020

2021

05/2020

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



						FY	2021 (SEPT - A	UG)		ELF	Paso Metropolitan Plan	ining Organization
DISTRICT	COUNTY	CSJ		н	WY		PHASE	Ć	ΓY PF	ROJECT SPON	NSOR Y	DE COST
TX DIST. 24	EP	0924-06-6	15	N	I/A		T	EIP	aso	County EP	\$	894,646
TIP PROJECT NA	AME: Regiona	al Transit Start	-up assistance	for F	Y21				REVISION DATE:	07/2020		
LIMITS FROM:	County '	Wide							MPO PROJECT ID:	T001-1		
LIMITS TO:	County '	Wide							MTP REFERENCE:	T001-1		
TIP DESCRIPTION							sit Service to pro		FUNDING CATEGOR			
		, singie, seamie ario, Clint,	ess, transit syste	m in	ElPas	so County, H	Iorizon City, Vinto	on, Anthony,	VOC (Kg/Day): 2.784		ay): 44.015	
	and Soc								NOX (Kg/Day): 2.182	PM 10 (K	g/Day): 1.041	
REMARKS:	Program	n into the D2045	5 MTP, D21-24	TIP a	nd 21	-24 STIP in	FY 2021 - Exem	ot				
	J		,				,					
						PI	ROJECT HISTO	RY:				
*Note project is ph	hased from F	/ 2021 - 2023				Pı	rogram into the D	2045 MTP, D	19-23 TIP and 19-22 S	STIP in FY 202	1 - Exempt	
	ct Cost Infor	mation:							ed Funding by Catego			
Preliminary Engine				-			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	5	CMAQ	\$715,717	\$0	\$0	\$178,929	\$0	\$894,646
Construction:		39,859	Approved Phases:	1	Fun	d by Share	\$715,717	\$0	\$0	\$178,929	\$0	\$894,646
Construction Engir				:			• -,	, .		,.	• •	• • • • • •
Contingencies:	\$0		\$894,646									
Indirects:	\$0											
Bond Financing:	\$0											
Potential Change (· · · · · · · · · · · · · · · · · · ·											
Total Project Cos	st: \$4,1	39,859										
PROJECT AMENI	DMENT HIST	ORY										
STIP Rev Date	e(s) FY(s)	Note/Amend	Date Note/Am	endm	ent							
05/2020	2021	04/2020	Program	into th	ne D2	045 MTP. D	19-23 TIP and 19	-22 STIP in F	Y 2021 - Exempt			
07/2020	2021	05/2020							FY 2021 - Exempt			
			ū					1-24 STIF III I	1 2021 - Exempt			
	EP	rs to TIP Admin			CS	ai Revision) i		- FLD		CaED	<u> </u>	700 645
TX DIST. 24		0924-06-60	ບວ	,	,3		C,E	El P		CoEP	<i>\$</i> :	9,788,645
TIP PROJECT NA	=	r widening							REVISION DATE:	07/2020	A D	
LIMITS FROM: LIMITS TO:	LP 375	44							MPO PROJECT ID: MTP REFERENCE:	A429X-C / A429X-C/		
TIP DESCRIPTION	Bill Burr		construction on	ط بینظ	nina	from 1 to 6 l	onoo					CATSIC
REMARKS:	•	r Widening: Re n into the D204			•				FUNDING CATEGOR	(1. CAI / 31	P-IVIIVI, CAT TO CDI,	CATSLO
REWARNS.	Flogran	Tillo the D204	5 WITE, DZ 1-24	HIP,	anu z	1-24 3117 11	1 F 1 202 1					
						DI	ROJECT HISTO	DV.				
									TIP, 19-22 STIP to pro	ogram in FY 20	021	
Total Project	ct Cost Inform	nation:		Ţ					ed Funding by Catego			
Preliminary Engine				i			Federal Share		Regional Share		Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	7	STP-MM	\$2,200,000	\$0	\$0	\$550,000	\$0	\$2,750,000
Construction:	\$9,3	78,645	Approved	Cat	10	CBI	\$5,302,916	\$0	\$0	\$1,325,729	\$0	\$6,628,645
Construction Engir	neering: \$0		Phases:	1	3LC	Local	\$0	\$0	•	\$0	\$410,000	\$410,000
Contingencies:	\$0		\$9,788,645	Cat	JLO	Contribut	ΨΟ	ΨΟ	ΨΟ	ΨΟ	Ψ+10,000	ψ+10,000
Indirects:	\$0			ĺ		ion						
Bond Financing:	\$0			-	Fun	d by Share	\$7,502,916	\$0	\$0	\$1,875,729	\$410,000	\$9,788,645
Potential Change (Order: \$0			•		-						
	Oldol. Wo											
Total Project Cos		88,645										
	st: \$9,7											
PROJECT AMENI	st: \$9,7	ORY	Doto Nata/A									
	st: \$9,7	ORY	Date Note/Am				TIP, 19-22 STIP					

Program into the D2045 MTP, D21-24 TIP, and 21-24 STIP in FY 2021

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LIMITS TO:

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2021 (SEPT - AUG)

					- /		
DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	2552-02-035	SL 375	С	El Paso	TXDOT	\$5,000,000
TIP PROJECT NA	AME: SL 375 I	nterchange (at SGT M	ajor)		REVISION	DATE: 07/2020	
LIMITS FROM:	1.0 MI N	of SGT Major			MPO PRO	JECT ID: F409X-MOD	

1.0 MI S of SGT Major SL 375 Interchange (at SGT Major): OPERATIONAL IMPROVEMENTS FOR THE INTERSECTIONS OF SERGEANT MAJOR BLVD AT LOOP 375 NORTHBOUND AND TIP DESCRIPTION:

SOUTHBOUND RAMPS

REMARKS: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021

*Project Sponsor paying for PE and/or ROW Costs, if any. PROJECT HISTORY:

Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reprogram from FY 2020 to FY 2021, removing

FUNDING CATEGORY: CAT 2

MTP REFERENCE:

F409X-MOD

					\$	4,850,000 of Cat	egory / adding	\$5,000,000 of Cate	gory z TIVIA			
Total Project Cost	Information:		Authorized Funding by Category/Share									
Preliminary Engineering:	\$500,000		Ì			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share	
Right Of Way:	\$0	Cost of	Cat	2M	TMA	\$4,000,000	\$1,000,000	\$0	\$0	\$0	\$5,000,000	
Construction:	\$5,000,000	Approved	į	F	al bu Chara	£4,000,000	£4 000 000	* 0	*0	*	¢E 000 000	
Construction Engineering	: \$0	Phases:	į	run	d by Share	\$4,000,000	\$1,000,000	\$0	\$0	\$0	\$5,000,000	
Contingencies:	\$0	\$5,000,000										
Indirects:	\$0											
Bond Financing:	\$0											
Potential Change Order:	\$0											

Total Project Cost:

\$5,500,000

PROJECT AMENDME	NT HIST	ORY	
STIP Rev Date(s)	FY(s)	Note/Amend Date	e Note/Amendment
11/2019	2020	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to program in FY 2020
02/2020	2020	01/2020	Admin amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reduce CAT 7 from \$5,000,000 to \$4,850,000 in FY 2020
05/2020	2021	04/2020	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reprogram from FY 2020 to FY 2021, removing \$4,850,000 of Category 7 adding \$5,000,000 of Category 2 TMA
07/2020	2021	05/2020	Program into the D2045 MTP, D21-24 TIP, 21-24 STIP in FY 2021
'STIP Rev Date(s)'	also refe	ers to TIP Administra	ative Amendment (Local Revision) Date

05/2020

7/2020

2022

2022

04/2020

05/2020

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



DISTRICT CO					2022 (SEPT - A	ROJECTS		ELF	aso Metropolitan Pla	nning Organizatio
TX DIST. 24	DUNTY EP	CSJ 0924-06-570	n	HWY CS	PHASE C,E	CIT El Pa		PROJECT SPON	ISOR Y	OE COST 52,572,079
TIP PROJECT NAME:					0,∟		REVISION DATE:	07/2020	4	52,572,079
LIMITS FROM:				nplete street names)			MPO PROJECT ID:			
LIMITS TO:	•		,	nplete street names)			MTP REFERENCE:			
TIP DESCRIPTION:	•		•	onstructBikeFacilitiesD	owntownTolnclud		FUNDING CATEGO		140	
THE BEGOTTH FIGH.	keLanes,Co	onventionalBil	keLanes,Bikel	BLVD's,SharedLaneMa atedSignage,Wayfinding	rkings,&Protecte	dBikeLanes.T	VOC (Kg/Day): 0.20 NOX (Kg/Day): 0.11	3 CO (Kg/Da		
REMARKS:		to D2045 MT	P, D21-24 TIF	and 21-24 STIP in FY	2022-Exempt					
	3		,	ļP ¡A	ROJECT HISTO	MTP, D19-23	TIP, 19-22 STIP to r	educe CAT 5 CM	 MAQ from \$4,272,27	73 to \$2,572,079
Total Project Co	ost Informat	ion:		Ţ		Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering	g: \$428,35	7			Federal Share		Regional Share		Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 5 CMAQ	\$2,057,663	\$0	\$0	\$514,416	\$0	\$2,572,079
Construction:	\$2,143,7	722	Approved	1	. , ,	, ,			· · · · · · · · · · · · · · · · · · ·	
Construction Engineeri	ng: \$0		Phases:	Fund by Share	\$2,057,663	\$0	\$0	\$514,416	\$0	\$2,572,079
Contingencies:	\$0		\$2,572,079							
Indirects:	\$0		4 _,0.1_,0.10							
Bond Financing:	\$0									
Potential Change Orde										
		270								
Total Project Cost:	\$2,572,0									
PROJECT AMENDME	NT HISTOR	Υ								
STIP Rev Date(s)	FY(s) No	ote/Amend D	ate Note/Am	endment						
07/2018	2022	05/2018	From: EI Fe; Myrtle To: Camp	D2045 MTP, D19-22 TI Paso from Franklin; El I e from Stanton; San Ani bbell to Paisano; El Pas I; Myrtle to Campbell; S	Paso from Sheld tonio from Anthor to to Main; El Pas	on; Main from ny; Sheldon fro so to Paisano;	om Santa Fe; Virginia Main to El Paso; Ma	a to Mills; Magoff in to Campbell; N	in from San Antonio Mills to Virginia; Miss	
11/2019	2022	10/2019	•	ne D2045 MTP, D19-23		• .				e Limits in FY
			2022-Exe	empt						
			From: Ca Stanton; To: Camp		El Paso from She ony; Sheldon fron to to Overland; M	ldon; Main fron n Santa Fe; Vi lain to Campbe	m Oregon; Mills from rginia to Mills; Magot ell; Mills to Virginia; N	Sheldon; Misso fin from San Ant Missouri to Camp	uri from Santa Fe; M onio	lyrtle from
07/2020	2022	05/2020	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp	empt Impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas	El Paso from She ony; Sheldon fror to to Overland; M Il Paso; Virginia t 24 TIP and 21-2- leldon; Missouri I m San Antonio to to Overland; M	Idon; Main from Santa Fe; Viain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe	m Oregon; Mills from rginia to Mills; Magol ell; Mills to Virginia; N ; Magoffin to Virginia 022-Exempt From: 0 Myrtle from Stantor	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M c; San Antonio from Missouri to Camp	uri from Santa Fe; Monio onio bbell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo	lyrtle from obell; San n Sheldon; on from Santa
			From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgin To: Camp Antonio to	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E	El Paso from She ony; Sheldon from to to Overland; M Il Paso; Virginia t 24 TIP and 21-2 teldon; Missouri I m San Antonio to to Overland; M Il Paso; Virginia t	Idon; Main from Santa Fe; Viain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe	m Oregon; Mills from rginia to Mills; Magol ell; Mills to Virginia; N ; Magoffin to Virginia 022-Exempt From: 0 Myrtle from Stantor	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M c; San Antonio from Missouri to Camp	uri from Santa Fe; Monio onio bbell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo	lyrtle from obell; San m Sheldon; on from Santa
'STIP Rev Date(s)'	also refers to	o TIP Adminis	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision)	El Paso from She ony; Sheldon fror to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri I m San Antonio to to Overland; M Il Paso; Virginia t Date	Idon; Main from Santa Fe; Viain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe	m Oregon; Mills from rginia to Mills; Magol ell; Mills to Virginia; N ; Magoffin to Virginia 022-Exempt From: 0 Myrtle from Stantor	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M ; San Antonio fro Missouri to Camp	uri from Santa Fe; Monio onio bbell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo	lyrtle from obell; San m Sheldon; on from Santa
'STIP Rev Date(s)'	also refers to	o TIP Adminis 3451-01-040	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to strative Amend	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281	El Paso from She ony; Sheldon from to to Overland; M Il Paso; Virginia t 24 TIP and 21-2 teldon; Missouri I m San Antonio to to Overland; M Il Paso; Virginia t	Idon; Main from Santa Fe; Viain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe	m Oregon; Mills from rginia to Mills; Magof ell; Mills to Virginia; N ; Magoffin to Virginia 022-Exempt From: 0 Myrtle from Stantor ell; Mills to Virginia; N ; Magoffin to Virginia	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M c; San Antonio from Missouri to Camp	uri from Santa Fe; Monio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp	lyrtle from obell; San m Sheldon; on from Santa
'STIP Rev Date(s)'	also refers to	o TIP Adminis 3451-01-040	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to strative Amend	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281	El Paso from She ony; Sheldon fror to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri I m San Antonio to to Overland; M Il Paso; Virginia t Date	Idon; Main fron n Santa Fe; Vi lain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe o San Antonio	m Oregon; Mills from rginia to Mills; Magof ell; Mills to Virginia; N ; Magoffin to Virginia 022-Exempt From: 0 Myrtle from Stantor ell; Mills to Virginia; N ; Magoffin to Virginia	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M ; San Antonio fro Missouri to Camp	uri from Santa Fe; Monio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp	dyrtle from bell; San n Sheldon; n from Santa bell; San
'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME:	also refers to EP Horizon at	o TIP Adminis 3451-01-040	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgin To: Camp Antonio to strative Amenco O	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281	El Paso from She ony; Sheldon fror to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri I m San Antonio to to Overland; M Il Paso; Virginia t Date	Idon; Main fron n Santa Fe; Vi lain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe o San Antonio	m Oregon; Mills from riginia to Mills; Magof ell; Mills to Virginia; N ; Magoffin to Virginia 022-Exempt From: 0 Myrtle from Stantor ell; Mills to Virginia; N ; Magoffin to Virginia	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M ; San Antonio fro Missouri to Camp TXDOT 07/2020	uri from Santa Fe; Monio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp	dyrtle from bell; San n Sheldon; n from Santa bell; San
'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM:	also refers to EP Horizon at	o TIP Adminis 3451-01-040 Darrington I	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgin To: Camp Antonio to strative Amenco O	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281	El Paso from She ony; Sheldon fror to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri I m San Antonio to to Overland; M Il Paso; Virginia t Date	Idon; Main fron n Santa Fe; Vi lain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe o San Antonio	m Oregon; Mills from originia to Mills; Magor bil; Mills to Virginia; M; Magoffin to Virginia; M; Magoffin to Virginia; M; Myrtle from Stantor bil; Mills to Virginia; M; Magoffin to Virginia; M; Magoffin to Virginia	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M ; San Antonio fro Missouri to Camp TXDOT 07/2020 A435X	uri from Santa Fe; Monio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp	dyrtle from bell; San n Sheldon; n from Santa bell; San
'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO:	also refers to EP Horizon at Horizon at I	o TIP Adminis 3451-01-04(Darrington Into Darr	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgin To: Camp Antonio to strative Amendo Intersection Intersection	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281	El Paso from She ony; Sheldon fror to to Overland; M I Paso; Virginia t 24 TIP and 21-2- telddon; Missouri I m San Antonio to Overland; M I Paso; Virginia t Date C	Idon; Main fron n Santa Fe; Vi lain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe o San Antonio	m Oregon; Mills from originia to Mills; Magor bil; Mills to Virginia; M; Magoffin to Virginia; M; Magoffin to Virginia; M; Myrtle from Stantor bil; Mills to Virginia; M; Magoffin to Virginia	Sheldon; Missoi fin from San Ant finsouri to Camp Campbell from M ; San Antonio fro Missouri to Camp TXDOT 07/2020 A435X A435X	uri from Santa Fe; Monio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp	dyrtle from bell; San n Sheldon; n from Santa bell; San
'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO: TIP DESCRIPTION:	also refers to EP Horizon at Horizon at I Program inf	o TIP Adminis 3451-01-040 Darrington Int Darrington Into the D2045	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to strative Amend ontersection In ersection Imp. MTP, D21-24	empt impbell from Missouri; E San Antonio from Antho bobell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro obell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281 np. :: Intersection & Operat TIP, and 21-24 STIP in	El Paso from She ony; Sheldon fron o to Overland; M I Paso; Virginia t 24 TIP and 21-2 leidon; Missouri f m San Antonio o to Overland; M I Paso; Virginia t Date C c ional Imprv n FY 2022	Idon; Main fron In Santa Fe; Vi Isian to Campbe Io San Antonio If STIP in FY 2 Irom Santa Fe; Isian to Campbe Io San Antonio Inoria	m Oregon; Mills from Oregon; Mills from originia to Mills; Magofell; Mills to Virginia; M; Magoffin to Virginia; MPO PROJECT ID: MTP REFERENCE:	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M I; San Antonio from Missouri to Camp TXDOT 07/2020 A435X A435X DRY: CAT 2	uri from Santa Fe; Monio onio sibell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo sibell; Myrtle to Camp	dyrtle from bell; San n Sheldon; n from Santa bell; San
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'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payin Total Project Co	also refers to EP Horizon at I Horizon at I Program inf g for PE and ost Informat g: \$360,00	Darrington Into the D2045 Jorran ROW Coston:	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to strative Amend o Intersection Intersection MTP, D21-24 sts, if any.	empt impbell from Missouri; E San Antonio from Antho bobell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro obell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281 np. :: Intersection & Operat TIP, and 21-24 STIP in	El Paso from She Days Sheldon from to to Overland; M I Paso; Virginia t 24 TIP and 21-2 teldon; Missouri f m San Antonio to to Overland; M I Paso; Virginia t Date C C tional Imprv the FY 2022 ROJECT HISTO rogram into the E	Idon; Main fron Santa Fe; Vi alain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe o San Antonio Horiz	m Oregon; Mills from riginia to Mills; Magor bil; Mills to Virginia; M; Magoffin to Virginia; MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M I; San Antonio from Missouri to Camp TXDOT 07/2020 A435X A435X DRY: CAT 2	uri from Santa Fe; Monio onio sibell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo sibell; Myrtle to Camp	dyrtle from shell; San in Sheldon; on from Santa shell; San
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'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payin Total Project Co Preliminary Engineering Right Of Way: Construction:	also refers to EP Horizon at I Horizon at I Program inf g for PE and ost Informat g: \$360,00 \$0 \$6,000,6	o TIP Adminis 3451-01-040 Darrington Int Darrington Int to the D2045 Wor ROW Cos ion: 0	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgin To: Camp Antonio to strative Amendo ontersection Impersection MTP, D21-24 sts, if any. Cost of Approved	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas bo Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh hia to Mills; Magoffin fro bbell to Paisano; El Pas bo Virginia; Sheldon to E dment (Local Revision) FM 1281 np. Intersection & Operat TIP, and 21-24 STIP ir P Cat 2M TMA	El Paso from She ony; Sheldon from to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri i m San Antonio to to Overland; M I Paso; Virginia t Date C C tional Imprv to FY 2022 FOJECT HISTO rogram into the E \$4,800,000	Idon; Main from Santa Fe; Vilain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; Jain to Campbe o San Antonio Horiz Horiz State Share \$1,200,000	m Oregon; Mills from riginia to Mills; Magof bil; Mills to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia; N; Mayoffin to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia CON REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO 19-23 TIP, and 19-22 Id Funding by Category Regional Share \$0	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M c; San Antonio fro Missouri to Camp TXDOT 07/2020 A435X A435X ORY: CAT 2	uri from Santa Fe; Monio onio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp \$ Local Contribution \$0	fyrtle from obell; San in Sheldon; in from Santa obell; San 66,000,000
'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payin Total Project Co Preliminary Engineering Right Of Way:	also refers to EP Horizon at I Horizon at I Program inf g for PE and ost Informat g: \$360,00 \$0 \$6,000,6	o TIP Adminis 3451-01-040 Darrington Int Darrington Int to the D2045 Wor ROW Cos ion: 0	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to strative Amend o Intersection Intersection Imp. MTP, D21-24 Sts, if any.	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas o Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh nia to Mills; Magoffin fro bbell to Paisano; El Pas o Virginia; Sheldon to E dment (Local Revision) FM 1281 np. :: Intersection & Operat TIP, and 21-24 STIP ir	El Paso from She ony; Sheldon from to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri i m San Antonio to to Overland; M I Paso; Virginia t Date C C tional Imprv to FY 2022 FOJECT HISTO rogram into the E \$4,800,000	Idon; Main from Santa Fe; Vilain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; lain to Campbe o San Antonio Horiz	m Oregon; Mills from riginia to Mills; Magor Bil; Mills to Virginia; M; Magoffin to Virginia; MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M I; San Antonio from Missouri to Camp TXDOT 07/2020 A435X A435X PRY: CAT 2	uri from Santa Fe; Monio onio sibell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo sibell; Myrtle to Camp \$ Log Contribution	fyrtle from obell; San in Sheldon; in from Santa obell; San 66,000,000
'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payin Total Project Co Preliminary Engineering Right Of Way: Construction:	also refers to EP Horizon at I Horizon at I Program inf g for PE and ost Informat g: \$360,00 \$0 \$6,000,6	o TIP Adminis 3451-01-040 Darrington Int Darrington Int to the D2045 Wor ROW Cos ion: 0	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgin To: Camp Antonio to strative Amendo Intersection Impersection MTP, D21-24 Sts, if any. Cost of Approved	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas bo Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh hia to Mills; Magoffin fro bbell to Paisano; El Pas bo Virginia; Sheldon to E dment (Local Revision) FM 1281 np. Intersection & Operat TIP, and 21-24 STIP ir P Cat 2M TMA	El Paso from She ony; Sheldon from to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri i m San Antonio to to Overland; M I Paso; Virginia t Date C C tional Imprv to FY 2022 FOJECT HISTO rogram into the E \$4,800,000	Idon; Main from Santa Fe; Vilain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; Jain to Campbe o San Antonio Horiz Horiz State Share \$1,200,000	m Oregon; Mills from riginia to Mills; Magof bil; Mills to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia; N; Mayoffin to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia CON REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO 19-23 TIP, and 19-22 Id Funding by Category Regional Share \$0	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M c; San Antonio fro Missouri to Camp TXDOT 07/2020 A435X A435X ORY: CAT 2	uri from Santa Fe; Monio onio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp \$ Local Contribution \$0	fyrtle from obell; San in Sheldon; in from Santa obell; San 66,000,000
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'STIP Rev Date(s)' TX DIST. 24 TIP PROJECT NAME: LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payin Total Project Co Preliminary Engineering Right Of Way: Construction: Construction Engineeri Contingencies: Indirects: Bond Financing:	also refers to EP Horizon at I Horizon at I Program informat g: \$360,00 \$0 \$6,000,0 ng: \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	o TIP Adminis 3451-01-040 Darrington Int Darrington Int to the D2045 Wor ROW Cos ion: 0	From: Ca Stanton; To: Camp Antonio to Program Main fron Fe; Virgir To: Camp Antonio to strative Amend o Intersection Intersection MTP, D21-24 sts, if any. Cost of Approved Phases:	empt impbell from Missouri; E San Antonio from Antho bbell to Paisano; El Pas bo Virginia; Sheldon to E into D2045 MTP, D21- n Oregon; Mills from Sh hia to Mills; Magoffin fro bbell to Paisano; El Pas bo Virginia; Sheldon to E dment (Local Revision) FM 1281 np. Intersection & Operat TIP, and 21-24 STIP ir P Cat 2M TMA	El Paso from She ony; Sheldon from to to Overland; M I Paso; Virginia t 24 TIP and 21-2- teldon; Missouri i m San Antonio to to Overland; M I Paso; Virginia t Date C C tional Imprv to FY 2022 FOJECT HISTO rogram into the E \$4,800,000	Idon; Main from Santa Fe; Vilain to Campbe o San Antonio 4 STIP in FY 2 from Santa Fe; Jain to Campbe o San Antonio Horiz Horiz State Share \$1,200,000	m Oregon; Mills from riginia to Mills; Magof bil; Mills to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia; N; Mayoffin to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia; N; Magoffin to Virginia CON REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO 19-23 TIP, and 19-22 Id Funding by Category Regional Share \$0	Sheldon; Missoi fin from San Ant Missouri to Camp Campbell from M c; San Antonio fro Missouri to Camp TXDOT 07/2020 A435X A435X ORY: CAT 2	uri from Santa Fe; Monio onio onio obell; Myrtle to Camp lissouri; El Paso fror om Anthony; Sheldo obell; Myrtle to Camp \$ Local Contribution \$0	fyrtle from obell; San in Sheldon; in from Santa obell; San 66,000,000
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Program into the D2045 MTP, D19-23 TIP, and 19-22 STIP in FY 2022

Program into the D2045 MTP, D21-24 TIP, and 21-24 STIP in FY 2022



WEDNESDAY, JANU 4:45:13 PM	JARY 13, 20	021	20	21-2	024 ST		EL PASO MPO	MPROVEMEN [®]	T PROGRAM		-	TIP PAGE: 2
							SO DISTRICT PE ' 2022 (SEPT - A			ELP	aso Metropolitan Pla	nning Organization
DISTRICT C	COUNTY	CSJ		H	IWY		PHASE	CIT	Y F	PROJECT SPON	ISOR Y	OE COST
TX DIST. 24	EP	2121-01-09	4	II	H 10		С	El Pa	aso	TXDOT	\$1	70,058,472
TIP PROJECT NAME	E: IH 10 WI	DENING (Anto	nio St to Mes	a St)					REVISION DATE:	07/2020		
LIMITS FROM:	0.22 MIL	ES WEST OF F	M 1905 (ANT	OINC	STRE	ET)			MPO PROJECT ID:	I405X-CA	P	
LIMITS TO:	SH 20 (M	MESA ST)							MTP REFERENCE:	I405X-CAF	•	
TIP DESCRIPTION:	IH 10 WI	DENING: WIDE	N FROM 4 TO	6 L	ANES [DIVIDED			FUNDING CATEGO	ORY: CAT 2 TM	A, CAT 4U	
REMARKS:	Amend th	ne D2045, D21-	-24 TIP, 21-24	STII	o to mo	ve from FY	2021 to FY 202	2				
*Project Sponsor pay	ing for PE a	ind/or ROW Cos	sts, if any.				ROJECT HISTO		4 TIP, 21-24 STIP in	FY 2021.		
Total Project (Cost Inform	nation:		Τ		<u>-</u> -	··· <u>··························</u>		d Funding by Cated	- 		
Preliminary Engineeri				İ			Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	2M	TMA	\$127,574,778	\$31,893,694	\$0	\$0	\$0	\$159,468,472
Construction:	\$170,	058,472	Approved	Cat	4	Urban	\$8,472,000	\$2,118,000	\$0	\$0	\$0	\$10,590,000
Construction Enginee	ering: \$3,15	1,965	Phases:	i		Connecti		+ =,::=,===	**	**	**	* , ,
Contingencies:	\$131,	943	170,058,472			vity						
Indirects:	\$0			-			\$0	\$0	\$0	\$0	\$0	\$0
Bond Financing:	\$0			1	Fund	d by Share	\$136,046,778	\$34,011,694	\$0	\$0	\$0	\$170,058,472
Potential Change Ord	ler: \$3,45	2,501										
Total Project Cost:	\$180,	386,655										
PROJECT AMENDM	ENT HISTO	DRY										
STIP Rev Date(s)) FY(s)	Note/Amend D	ate Note/Ame	endn	nent							
07/2018	2021	05/2018	Program	D204	15 MTP	, D19-22 T	IP, 19-22 STIP, i	n FY 2021.				
02/2019	2021	11/2018	Amend th	e D2	045 M	TP, D 19-22	2 TIP, and 19-22	STIP to add \$8	37,951,432 to CAT 2			
02/2020	2021	01/2020				045 MTP, I in FY 2021		I 19-22 STIP to	remove \$20,150,00	0 of CAT 7 STP-	MM and \$3,288,920	of CAT 11
02/2020	2021	02/2020	Admin an	nend	the D2	045 MTP, I	D 19-23 TIP, and	1 19-22 STIP to	add \$34,498,120 of	CAT 2M and \$1	0,590,000 of CAT 4	J in FY 2021.
07/2020	2021	05/2020	Program	into 1	he D2	045, D21-2	4 TIP, 21-24 STI	IP in FY 2021				
11/2020	2022	11/2020	Amend th	e D	2045, E)21-24 TIP,	, 21-24 STIP to r	nove from FY 2	2021 to FY 2022			
'STIP Rev Date(s)' also refer	s to TIP Adminis	strative Ameno	lmen	t (Loca	l Revision)	Date					
TX DIST. 24	EP	2121-04-114			H 10	/	С	El Pa	aso	TXDOT	\$	17,000,000
TIP PROJECT NAME LIMITS FROM:				31)					REVISION DATE: MPO PROJECT ID:	07/2020		,,

EASTLAKE BLVD

LIMITS TO: FM 1281 (HORIZON BLVD)

TIP DESCRIPTION: IH 10 WIDENING (Eastlake to FM 1281): WIDEN FROM 4 TO 6 LANES

REMARKS: Amend the D2045 MTP, D21-24 TIP and 21-24 STIP to move from FY 2021 to FY 2022

*Project Sponsor paying for PE and/or ROW Costs, if any.

\$19,971,962

PROJECT HISTORY:

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021

MTP REFERENCE:

I062X-CAP

FUNDING CATEGORY: CAT 11 Rider 11B, CAT 2 TMA

							,	<u> </u>	<u></u> 			
Total Project Cost	Information:		Authorized Funding by Category/Share									
Preliminary Engineering:	\$1,033,543		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share	
Right Of Way:	\$0	Cost of	Cat	2M	CAT 2	\$5,600,000	\$1,400,000	\$0	\$0	\$0	\$7,000,000	
Construction:	\$17,000,000	Approved	i		TMA							
Construction Engineering:	\$906,986	Phases:	Cat	11	Rider 11	\$8,000,000	\$2,000,000	\$0	\$0	\$0	\$10,000,000	
Contingencies:	\$37,967	\$17,000,000	Ì		В							
Indirects:	\$0		-	Fu	nd by Share	\$13,600,000	\$3,400,000	\$0	\$0	\$0	\$17,000,000	
Bond Financing:	\$0		·									
Potential Change Order:	\$993,466											

PROJECT AMENDMENT HISTORY

Total Project Cost:

STIP Rev Date(s)	FY(s)	Note/Amend Dat	e Note/Amendment
05/2020	2021	04/2020	Program into D2045 MTP, D19-23 TIP and 19-22 STIP in FY 2021
07/2020	2021	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021
11/2020	2022	11/2020	Amend the D2045 MTP, D21-24 TIP and 21-24 STIP to move from FY 2021 to FY 2022
'STIP Rev Date(s)'	also refe	ers to TIP Administr	ative Amendment (Local Revision) Date

WEDNESDAY, JANUARY 13, 2021 4:45:15 PM

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



						2022 (SEPT - A	ROJECTS N UG)		CI	Paso Metropolitan Pla	nning Urganizati
DISTRICT C	OUNTY	CSJ		HW	IY	PHASE	CIT	Υ	PROJECT SPO	NSOR Y	OE COST
TX DIST. 24	EP	0924-06-5	64	CS	3	С	El Pa	aso	County EP	\$	11,965,758
TIP PROJECT NAME	: John Ha	yes (Darringto	on/Berryville)(0	Constru	uction Phase 1)			REVISION DATE:	07/2020		
LIMITS FROM:	Pellicano	Dr.						MPO PROJECT ID	: P004X-C/	AP-1	
LIMITS TO:	Montwoo	d						MTP REFERENCE	: P004X-CA	AP-1	
TIP DESCRIPTION:	John Hay with bike		n/Berryville)(Co	nstructio	on Phase 1): Bu	ild 6-lane divided	d roadway	FUNDING CATEGO	DRY: CAT 7 ST	P-MM, CAT 3 LC	
REMARKS:	Program	into the D204	5 MTP, D21-24	TIP, 2	1-24 STIP, in FY	′ 2022					
*Note project is phase	ed, PE was	in FY 2019 an	d second phas	e is in F	Y 2025						
*Project Sponsor payi	ng for PE a	nd/or ROW Co	osts, if any.		<u> i </u>						
Total Project C	ost Inform	ation:					Authorize	ed Funding by Cate	gory/Share		
Preliminary Engineering	ng: \$2,55	5,280		ļ		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 7	7 STP-MM	\$8,096,606	\$0	\$0	\$2,024,152	\$0	\$10,120,758
Construction:		65,758	Approved Phases:	Cat 3	3LC Local	\$0	\$0	\$0	\$0	\$1,845,000	\$1,845,000
Construction Engineer	ring: \$0		Filases.		Contribut						
Contingencies:	\$0		\$11,965,758	İ	ion						
Indirects:	\$0			1	Fund by Share	\$8,096,606	\$0	\$0	\$2,024,152	\$1,845,000	\$11,965,758
Bond Financing:	\$0										
Potential Change Orde	er: \$0										
. otomiai omango ora	40										
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s)	\$32,5 ENT HISTO FY(s) 2022 b) also refers	Note/Amend 05/2020 s to TIP Admin	istrative Amen	into the	e D2045 MTP, [Local Revision)				TXDOT	¢	54 663 725
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION:	\$32,5 ENT HISTO FY(s) 2022 b' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heal 0 (Montana Americanes and cons	Program istrative Amend 28 rt) Widening and /e.)) Widening and truct 2 lane from	into the dment (I LP 3 and Con I Construction and I	e D2045 MTP, I Local Revision) 975 struction of Fronta ruction of Fronta pads in each dire	C contage Roads	El Pa		F057X-C/	AP AP	54,663,725
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor paying the state of th	\$32,5 ENT HISTO FY(s) 2022 'also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend the	Note/Amend 05/2020 s to TIP Admin 2552-02-0: 6 (Purple Head 0 (Montana And Group) Head and Sons and Consider D2045 MTI	Program istrative Amend 28 rt) Widening an (e.)) Widening and truct 2 lane from P, D21-24 TIP a	into the dment (I LP 3 and Con I Construction and I	e D2045 MTP, [Local Revision) 875 struction of Fronta ruction of Fronta bads in each dire 24 STIP to move	Date C ontage Roads ge Roads: Widelection. e from FY 2021 to	El Pa n 4 to 6 lanes o FY 2022 DRY: 045 MTP, D21-	REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO	07/2020 : F057X-C / : F057X-C/ DRY: CAT 2, C/	AP AP	54,663,725
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi	\$32,5 ENT HISTO FY(s) 2022 ' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend the	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart and Consider D2045 MTI and/or ROW Constant	Program istrative Amend 28 rt) Widening an (e.)) Widening and truct 2 lane from P, D21-24 TIP a	into the dment (I LP 3 and Con I Construction and I	e D2045 MTP, [Local Revision) 875 struction of Fronta ruction of Fronta bads in each dire 24 STIP to move	Contage Roads ge Roads: Widelection. e from FY 2021 to ROJECT HISTO rogram into D20	El Pa n 4 to 6 lanes o FY 2022 DRY: D45 MTP, D21- Authorize	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 Sed Funding by Cate	07/2020 : F057X-CA : F057X-CA DRY: CAT 2, CA TIP in FY 2021 gory/Share	AP AP AT 4(3c)	
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerii	\$32,5 ENT HISTO FY(s) 2022 ' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend the	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Constation: 1,570	Program istrative Amend 28 rt) Widening and ve.)) Widening and truct 2 lane from P, D21-24 TIP a posts, if any.	into the diment (I LP 3 and Con I Construtage roand 21-2	e D2045 MTP, [Local Revision) 875 struction of Fronta ruction of Fronta bads in each dire 24 STIP to move	Date C portage Roads ge Roads: Wider section. e from FY 2021 to ROJECT HISTO rogram into D20 Federal Share	El Pa n 4 to 6 lanes o FY 2022 DRY: 045 MTP, D21- Authorize State Share	ASO REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S ENDER SENTING SENTI	07/2020 : F057X-CA : F057X-CA DRY: CAT 2, CA TIP in FY 2021 gory/Share Local Share	AP AP AT 4(3c) Lcl Contribution	Total Share
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerii Right Of Way:	\$32,5 ENT HISTO FY(s) 2022)' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend the	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co	Program istrative Amend 28 rt) Widening and ve.)) Widening and truct 2 lane from P, D21-24 TIP a posts, if any.	into the dment (I LP 3 and Con I Construction and I	e D2045 MTP, [Local Revision) 875 struction of Fronta ruction of Fronta bads in each dire 24 STIP to move	Contage Roads ge Roads: Widelection. e from FY 2021 to ROJECT HISTO rogram into D20	El Pa n 4 to 6 lanes o FY 2022 DRY: D45 MTP, D21- Authorize	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 Sed Funding by Cate	07/2020 : F057X-CA : F057X-CA DRY: CAT 2, CA TIP in FY 2021 gory/Share	AP AP AT 4(3c)	Total Share
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerin Right Of Way: Construction:	\$32,5 ENT HISTO FY(s) 2022 9' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend th mg for PE a Cost Inform ng: \$2,42 \$7,62 \$54,6	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co attion: 1,570 6,000 63,725	Program istrative Amend 28 rt) Widening and re.)) Widening and truct 2 lane fror P, D21-24 TIP a posts, if any. Cost of Approved	into the diment (I LP 3 and Con I Construtage roand 21-2	e D2045 MTP, [Local Revision] 875 struction of Fronta bads in each dire 24 STIP to move	Date C portage Roads ge Roads: Wider section. e from FY 2021 to ROJECT HISTO rogram into D20 Federal Share	El Pa n 4 to 6 lanes o FY 2022 DRY: 045 MTP, D21- Authorize State Share	ASO REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S ENDER SENTING SENTI	07/2020 : F057X-CA : F057X-CA DRY: CAT 2, CA TIP in FY 2021 gory/Share Local Share	AP AP AT 4(3c) Lcl Contribution	Total Share \$37,274,000
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerin Right Of Way: Construction: Construction Engineerin	\$32,5 ENT HISTO FY(s) 2022)' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend th mg for PE a Cost Inform ng: \$2,42 \$7,62 \$54,6 ring: \$2,12	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co attion: 1,570 6,000 63,725 5,051	Program istrative Amend 28 rt) Widening and ve.)) Widening and truct 2 lane from P, D21-24 TIP a posts, if any. Cost of Approved Phases:	into the diment (I LP 3 and Construction and 21-2 Cat 2 Cat 2	e D2045 MTP, [Local Revision] 875 struction of Fronta bads in each dire 24 STIP to move	Date C portage Roads ge Roads: Wide extion. From FY 2021 to the road of the	El Pa n 4 to 6 lanes o FY 2022 DRY: 45 MTP, D21- Authorize State Share \$7,454,800	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S d Funding by Cate Regional Share \$0	07/2020 : F057X-C/ : F057X-C/ DRY: CAT 2, C/ TIIP in FY 2021 gory/Share Local Share	AP AP AT 4(3c) Lcl Contribution	Total Share \$37,274,000 \$17,389,72
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerin Right Of Way: Construction: Construction Engineer Contingencies:	\$32,5 ENT HISTO FY(s) 2022 9' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend th amend th amend th cost Inform ng: \$2,42 \$7,62 \$54,6 ring: \$2,12	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co attion: 1,570 6,000 63,725 5,051	Program istrative Amend 28 rt) Widening and re.)) Widening and truct 2 lane fror P, D21-24 TIP a posts, if any. Cost of Approved	into the diment (I LP 3 and Construction and 21-2 Cat 2 Cat 2	e D2045 MTP, [Local Revision] 375 struction of Fronta pads in each dire 24 STIP to move P	Date C portage Roads ge Roads: Wide extion. From FY 2021 to the road of the	El Pa n 4 to 6 lanes o FY 2022 PRY: 045 MTP, D21- Authorize State Share \$7,454,800 \$3,477,945	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S rd Funding by Cate Regional Share \$0 \$0	07/2020 : F057X-C/ : F057X-C/ DRY: CAT 2, C/ TIP in FY 2021 gory/Share Local Share \$0 \$0	AP AT 4(3c) Lcl Contribution \$0	Total Share \$37,274,000 \$17,389,729
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerir Right Of Way: Construction: Construction Engineer Contingencies: Indirects:	\$32,5 ENT HISTO FY(s) 2022 b' also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend th ng for PE a Cost Inform ng: \$2,42 \$7,62 \$54,6 ring: \$2,12 \$88,9 \$0	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co attion: 1,570 6,000 63,725 5,051	Program istrative Amend 28 rt) Widening and ve.)) Widening and truct 2 lane from P, D21-24 TIP a posts, if any. Cost of Approved Phases:	into the diment (I LP 3 and Construction and 21-2 Cat 2 Cat 2	e D2045 MTP, [Local Revision] 375 struction of Fronta pads in each dire 24 STIP to move P	Date C portage Roads ge Roads: Wide extion. From FY 2021 to the road of the	El Pa n 4 to 6 lanes o FY 2022 PRY: 045 MTP, D21- Authorize State Share \$7,454,800 \$3,477,945	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S rd Funding by Cate Regional Share \$0 \$0	07/2020 : F057X-C/ : F057X-C/ DRY: CAT 2, C/ TIP in FY 2021 gory/Share Local Share \$0 \$0	AP AT 4(3c) Lcl Contribution \$0	Total Share \$37,274,000 \$17,389,72
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerir Right Of Way: Construction: Construction Engineer Contingencies: Indirects: Bond Financing:	\$32,5 ENT HISTO FY(s) 2022)' also refers EP E: Loop 375 on mainla Amend th ng for PE a Cost Inform ng: \$2,42 \$7,62 \$54,6 ring: \$2,12 \$88,9 \$0 \$0	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Hear 00 (Montana Ar 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co 1,570 6,000 63,725 5,051	Program istrative Amend 28 rt) Widening and ve.)) Widening and truct 2 lane from P, D21-24 TIP a posts, if any. Cost of Approved Phases:	into the diment (I LP 3 and Construction and 21-2 Cat 2 Cat 2	e D2045 MTP, [Local Revision] 375 struction of Fronta pads in each dire 24 STIP to move P	Date C portage Roads ge Roads: Wide extion. From FY 2021 to the road of the	El Pa n 4 to 6 lanes o FY 2022 PRY: 045 MTP, D21- Authorize State Share \$7,454,800 \$3,477,945	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S rd Funding by Cate Regional Share \$0 \$0	07/2020 : F057X-C/ : F057X-C/ DRY: CAT 2, C/ TIP in FY 2021 gory/Share Local Share \$0 \$0	AP AT 4(3c) Lcl Contribution \$0	Total Share \$37,274,000 \$17,389,72
Total Project Cost: PROJECT AMENDMI STIP Rev Date(s) 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAME LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor payi Total Project C Preliminary Engineerir Right Of Way: Construction: Construction Engineer Contingencies: Indirects:	\$32,5 ENT HISTO FY(s) 2022 2 also refers EP E: Loop 375 Spur 601 US 62/18 Loop 375 on mainla Amend th amend th Estate Cost Inform ng: \$2,42 \$7,62 \$54,6 ring: \$2,12 \$88,9 \$0 \$0 er: \$2,32	Note/Amend 05/2020 s to TIP Admin 2552-02-05 6 (Purple Hear 00 (Montana Ar 6 (Purple Heart anes and cons ne D2045 MTI nd/or ROW Co 1,570 6,000 63,725 5,051	Program istrative Amend 28 rt) Widening and ve.)) Widening and truct 2 lane from P, D21-24 TIP a posts, if any. Cost of Approved Phases:	into the diment (I LP 3 and Construction and 21-2 Cat 2 Cat 2	e D2045 MTP, [Local Revision] 375 struction of Fronta pads in each dire 24 STIP to move P	Date C portage Roads ge Roads: Wide extion. From FY 2021 to the road of the	El Pa n 4 to 6 lanes o FY 2022 PRY: 045 MTP, D21- Authorize State Share \$7,454,800 \$3,477,945	aso REVISION DATE: MPO PROJECT ID MTP REFERENCE FUNDING CATEGO 24 TIP and 21-24 S rd Funding by Cate Regional Share \$0 \$0	07/2020 : F057X-C/ : F057X-C/ DRY: CAT 2, C/ TIP in FY 2021 gory/Share Local Share \$0 \$0	AP AT 4(3c) Lcl Contribution \$0	Total Share \$37,274,000 \$17,389,72

05/2017	2019	04/2017	Amend to program into amended H2040 MTP, H17-20 TIP, 17-20 STIP in FY 2019.					
07/2018	2019	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2019.					
05/2019	2019	04/2019	Administrative Amendment to add \$10,000,800 of Cat 2M in FY 2019.					
08/2019	2020	06/2019	Amend the D2045 MTP, D19-22 TIP, 19-22 STIP to move from FY 2019 to FY 2020.					
05/2020	2021	04/2020	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to move from FY 2020 to FY 2021.					
07/2020	2021	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021					
11/2020	2022	11/2020	Amend the D2045 MTP, D21-24 TIP and 21-24 STIP to move from FY 2021 to FY 2022					
'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date								

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EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM



4.45.17 PIVI						EI DAS	SO DISTRICT PE			_		$\overline{}$
							2022 (SEPT - A			ELI	Paso Metropolitan Pla	nning Organization
DISTRICT	COUNTY	CSJ		Н	IWY		PHASE	CIT	ry i	PROJECT SPOR	NSOR Y	OE COST
TX DIST. 24	EP	0924-06-58	7		CS		C,E,R	Horiz		Horizon		13,091,758
TIP PROJECT NAM	ME: N. Darrin	gton Reconst	ruction						REVISION DATE:	07/2020		
LIMITS FROM:	Eastlake l	Boulevard							MPO PROJECT ID:	: A432X		
LIMITS TO:	Oxbow Dr	rive							MTP REFERENCE:	: A432X		
TIP DESCRIPTION	: N. Darring	gton Reconstru	ıction: Reconst	tructio	on of a	n existing 4-	lane roadway		FUNDING CATEGO	DRY: CAT 7 ST	P-MM, CAT 3 LC	
REMARKS:	Program i	nto D2045 M	TP, D21-24 TIF	o and	21-24	STIP in FY	2022.					
Total Project	t Cost Informa	ation:		Ţ				Authorize	ed Funding by Cate	gory/Share		
Preliminary Enginee				İ			Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:	\$500,0	000	Cost of	Cat	7	STP-MM	\$8,496,607	\$0	\$0	\$2,124,151	\$0	\$10,620,758
Construction:	\$8,308	3,758	Approved	Cat	10	State Fur		\$2,471,000	\$0	\$0	\$0	\$2,471,000
Construction Engine	eering: \$747,0	000	Phases:	Out		Otato i di	ιασα φο	Ψ2, 17 1,000	Ψ	Ψ	Ψ	Ψ2, 11 1,000
Contingencies:	\$1,065	5,000	\$13,091,758	-								
Indirects:	\$0			ļ								
Bond Financing:	\$0				_					** ** **		*
Potential Change Order: \$0				1	Fun	d by Share	\$8,496,607	\$2,471,000	\$0	\$2,124,151	\$0	\$13,091,758
Total Project Cost:	: \$13,09	1,758										
02/2020	2022	01/2020	Amend th	ne D2	.045 M	TP, D19-23	TIP, 19-22 STIF	to move from	FY 2030 to FY 2022	2.		
07/2020	2022	05/2020	Program	into	D2045	MTP. D21-	24 TIP and 21-2	4 STIP in FY 2	2022.			
'STIP Rev Date			ū									
TX DIST. 24	EP	0924-06-60			CS	ii (CVISIOII)	C,E	Soco	orro	Socorro		\$756,780
TIP PROJECT NAM					00		0,2		REVISION DATE:	07/2020	· ·	#100,100
LIMITS FROM:		Canal at Passm							MPO PROJECT ID:			
LIMITS TO:			assmore Road						MTP REFERENCE:			
TIP DESCRIPTION	: Passmore		l-Use Path: A 1		t share	ed-use path	along Passmore		FUNDING CATEGO		SA	
REMARKS:	•	•	.о. ГР, D21-24 TIF	o and	21-24	STIP in FY	2022-Exempt					
TILING WITHOUT	riogiaiiri	ING BEGIGIN	, 52. 2	unu		0111 1111 1	ZOZZ ZXOMPT					
						P	ROJECT HISTO	PRY:				
									TIP, 19-22 STIP to	program in FY 20	022. Exempt	
Total Project	t Cost Inform	ation:		Ţ				Authorize	ed Funding by Cate	gory/Share		
Preliminary Enginee	ering: \$98,71	10		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	9	CAT 9	\$605,424	\$0	\$0	\$151,356	\$0	\$756,780
Construction:	Construction: \$658,070 Approved		į	FLEX	(TASA							
Construction Engineering: \$0 Phases:			-	Fun	d by Share	\$605,424	\$0	\$0	\$151,356	\$0	\$756,780	
O (' '			A-FA -A-C									

Total Project (Cost Information:		T				Authorize	d Funding by Cate	gory/Share		
Preliminary Engineer	ing: \$98,710		j			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat	9	CAT 9	\$605,424	\$0	\$0	\$151,356	\$0	\$756,780
Construction:	\$658,070	Approved	i	FLEX	TASA						
Construction Engine	ering: \$0	Phases:		Fund	d by Share	\$605,424	\$0	\$0	\$151,356	\$0	\$756,780
Contingencies:	\$0	\$756,780	÷		-			·		·	. ,
Indirects:	\$0										
Bond Financing:	\$0										

PROJECT AMENDMENT HISTORY

\$756,780

Potential Change Order: \$0 Total Project Cost:

ST	IP Rev Date(s)	FY(s)	Note/Amend Date	• Note/Amendment			
	02/2020	2022	12/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to program in FY 2022. Exempt			
	07/2020	2022	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt			
'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date							

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EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2022 (SEPT - AUG)

				F	Y 2022 (SEPT - A	JUG)		CI F	aso metropolitan rial	mind m. damsamin
DISTRICT	COUNTY	CSJ		HWY	PHASE	CIT	Y I	PROJECT SPON	NSOR Y	OE COST
TX DIST. 24	EP	0924-06-61	2	N/A	Т	El Pa	aso	County EP	\$	1,000,000
TIP PROJECT NAM	IE: Region	nal Transit Start-	up assistance	e for FY22			REVISION DATE:	07/2020		
LIMITS FROM:	County	Wide					MPO PROJECT ID:	T001-2		
LIMITS TO:	County	Wide					MTP REFERENCE:			
TIP DESCRIPTION:	Region	al Transit Start-u	p assistance fo	or FY22			FUNDING CATEGO	DRY: CAT 5		
REMARKS:	Prograi	m D2045 MTP, [021-24 TIP and	d 21-24 STIP in FY 20	22 - Exempt		VOC (Kg/Day): 2.78	4 CO (Kg/D	ay): 44.015	
							NOX (Kg/Day): 2.18	2 PM 10 (Kg	g/Day): 1.041	
*Note project is phas	sed from F	Y 2021 - 2023			PROJECT HISTO Program into the [19-23 TIP and 19-22	STIP in FY 202	2 - Exempt	
Total Project	Cost Infor	mation:				Authorize	ed Funding by Cate	gory/Share		
Preliminary Engineer					Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat 5 CMAQ	\$800,000	\$0	\$0	\$200,000	\$0	\$1,000,000
Construction:	\$4,1	139,859	Approved	Fund by Shar	e \$800,000	\$0	\$0	\$200,000	\$0	\$1,000,000
Construction Engine	ering: \$0		Phases:		φοσο,σσσ	Q U	Ų0	\$200,000	Ų0	ψ1,000,000
Contingencies:	\$0		\$1,000,000							
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change Or	der: \$0									
Total Project Cost:	\$4,1	139,859								
PROJECT AMENDA	MENT HIS	TORY								
STIP Rev Date(s	s) FY(s)	Note/Amend D	Date Note/Am	endment						
5/2020	2022	04/2020	Program	into the D2045 MTP, I	D19-23 TIP and 19	9-22 STIP in F	Y 2022 - Exempt			
07/2020	2022	05/2020	Program	D2045 MTP, D21-24	TIP and 21-24 ST	TP in FY 2022	- Exempt			
'STIP Rev Date(s	s)' also refe	ers to TIP Admini	strative Amend	dment (Local Revision) Date					
TX DIST. 24	EP	0924-06-61	7	CS	C,E	El Pa	aso	County EP	\$	1,329,356
TIP PROJECT NAM	E: Tornille						REVISION DATE:	07/2020	·	,,
LIMITS FROM:		St, Los Coyotes [s Rd.			MPO PROJECT ID:			
LIMITS TO:		County Streets/					MTP REFERENCE:	E505X		
TIP DESCRIPTION:		•		and Construction of n	ew sidewalks 5 ft v	wide.	FUNDING CATEGO		SA (TXDOT)	
				ADA Ramps. along d					, ,	
REMARKS:	TX.									
				4 TIP and 21-24 STIP-	EXEMPT. Tornillo	North				
	Sidewa	lks and Inkind =	\$237,385	, -						
					PROJECT HISTO					
								STIP-EXEMPT.	2019 TA/SRTS state	e-selected;
Total Drainet	Coot Info			<u>"</u>	Commission appro					
Total Project Preliminary Engineer		mation: 5,871			Federal Share		ed Funding by Cate Regional Share	gory/Snare Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0 \$1	5,671	Cost of	0.1 0745 7404			ŭ			
Construction:		063,485	Approved	Cat 9TAP TASA (TXDOT	\$1,063,485	\$0	\$0	\$265,871	\$0	\$1,329,356
Construction Engine		700,400	Phases:	•	´	r.o.	**	\$00E 074	*	£4 200 250
Contingencies:	\$0		\$1,329,356	Fund by Shar	e \$1,063,485	\$0	\$0	\$265,871	\$0	\$1,329,356
Indirects:	\$0		\$1,329,330							
Bond Financing:	\$0 dan 00									
Potential Change Or										
Total Project Cost:		329,356 								
PROJECT AMENDA			Nata Net 14							
STIP Rev Date(s		Note/Amend I								
05/2020	2022	04/2020	Program 115662	into the D2045 MTP, I	D19-23 TIP and 19	9-22 STIP-EXE	EMPT. 2019 TA/SRT	S state-selected	; Commission approv	/ed 1/30/20 MO
07/2020	2022	05/2020		into the D2045 MTP,	D21-24 TIP and 2	21-24 STIP-EX	EMPT. Tornillo Norti	h Sidewalks and	Inkind = \$237.385	
			_	dment (Local Revision					,,	
Cili Nov Bate(s	o, also isi	to in /tuiillill	5 GLI 7 11 11 11 11 11 11 11 11 11 11 11 11 1	(Eccai i tevision	, = 410					

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2022 (SEPT - AUG) PROJECT SPONSOR DISTRICT COUNTY CSJ HWY **PHASE** CITY YOE COST 0924-06-616 TX DIST. 24 FP CS C,E El Paso County EP \$1,432,619 TIP PROJECT NAME: Tornillo South Sidewalks/SUP **REVISION DATE:** 07/2020 LIMITS FROM: Cobb Ave, Florinda Dr., Linda Dr., Florella Dr., 2nd St. and 3rd. St. MPO PROJECT ID: E504X MTP REFERENCE: F504X LIMITS TO Various County streets/roadways TIP DESCRIPTION: Tornillo South Sidewalks/SUP: Design and Construction of new sidewalks 5 ft wide, new 12 FUNDING CATEGORY: CAT 9 TASA (TXDOT) ft wide Shared Use Path (SUP), driveways, striping, crosswalks and 28 ADA Ramps along different streets at Tornillo, TX. Program into the D2045 MTP, D21-24 TIP and 21-24 STIP-EXEMPT. Tornillo South REMARKS: Sidewalk/SUP and Inkind = \$255.825 PROJECT HISTORY: Program into the D2045 MTP, D21-24 TIP and 21-24 STIP-EXEMPT, 2019 TA/SRTS state-selected: Commission approved 1/30/20 MO 115662 Total Project Cost Information: Authorized Funding by Category/Share Preliminary Engineering: \$286,524 **Federal Share** State Share Regional Share **Local Share Lcl Contribution Total Share** Right Of Way: \$0 Cost of Cat 9TAP TASA \$1,146,095 \$0 \$0 \$286,524 \$0 \$1,432,619 Construction: \$1,146,095 Approved (TXDOT) Phases: Construction Engineering: \$0 **Fund by Share** \$1,146,095 \$0 \$0 \$286,524 \$0 \$1,432,619 \$1,432,619 Contingencies \$0 Indirects: \$0 Bond Financing: \$0 Potential Change Order: \$0 **Total Project Cost:** \$1,432,619 PROJECT AMENDMENT HISTORY Note/Amend Date Note/Amendment FY(s) STIP Rev Date(s) 05/2020 2022 04/2020 Program into the D2045 MTP, D21-24 TIP and 21-24 STIP-EXEMPT. 2019 TA/SRTS state-selected; Commission approved 1/30/20 MO 115662 Program into the D2045 MTP, D21-24 TIP and 21-24 STIP-EXEMPT. Tornillo South Sidewalk/SUP and Inkind = \$255,825 07/2020 2022 05/2020 'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date TX DIST. 24 0924-06-566 N/A Ε El Paso COEP \$3,421,422 TIP PROJECT NAME: Traffic Management Center Upgrade Phase 1 **REVISION DATE:** 07/2020 LIMITS FROM: City of El Paso city limits. MPO PROJECT ID: S301D LIMITS TO: City of El Paso city limits. MTP REFERENCE: S301D TIP DESCRIPTION: TMCUPhase1: The project includes the upgrade of the City of El Paso TMC&Traffic Signal FUNDING CATEGORY: CAT 5 CMAQ controller equipment city wide. P1 is the design phase. P2 includes both VOC (Kg/Day): 3.5 CO (Kg/Day): 68.03 design&construction.P3-5 are the implementation&construction of the design NOX (Kg/Day): 8.91 PM 10 (Kg/Day): 10.15 REMARKS: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022.-Exempt PROJECT HISTORY: Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reduce CAT 5 CMAQ from \$5,360,329 to \$3,660,329

Total Project Cost	Information:		ļ				Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$5,360,329		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	proved	5	CMAQ	\$2,737,138	\$0	\$0	\$684,284	\$0	\$3,421,422
Construction:	\$17,172,252	Approved		Eun		\$2,737,138	\$0	\$0	\$684,284	\$0	\$2 424 422
Construction Engineering: \$2,129,397		Phases:	1	ruii	ınd by Share	\$ \$2,737,130	\$0	ΦU	\$004,204	φU	\$3,421,422
Contingencies:	\$0	\$3,421,422									
Indirects:	\$319,404										
Bond Financing:	\$0										
Potential Change Order:	\$0										
Total Project Cost:	\$24,981,382										

	STIP Rev Date(s)	FY(s)	Note/Amend Date	e Note/Amendment				
	07/2018	2022	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.				
	02/2020	2022	01/2020	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to reduce CAT 5 CMAQ from \$5,360,329 to \$3,660,329 in FY 2022				
	07/2020	2022	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022Exempt				
'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date								

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REMARKS:

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2022 (SEPT - AUG)

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DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PRO.	JECT SPONSOR	YOE COST		
TX DIST. 24	EP	0924-06-618	CS	C,E	El Paso		COEP	\$999,953		
TIP PROJECT NAI	ME: Ysleta N	liddle School SRTS			REVISION I	DATE:	07/2020			
LIMITS FROM:	OM: Elvin Way from Alameda; Independence Dr from Elvin; Playa Lateral from Elvin Way MPO PROJECT ID: E506X									
LIMITS TO:	Elvin Wa	y to Victor; Independenc	e Dr to Jesuit Dr; Playa	Lateral to Jesuit Dr.	MTP REFE	RENCE:	E506X			
TIP DESCRIPTION	TIP DESCRIPTION: YsletaMiddleSchoolSRTS:InstallationOfSchoolZoneFlashersAlongIndependenceDrive,ADA FUNDING CATEGORY: CAT 9 SRTS (TXDOT) Ramps@MultipleLocations&SchoolZoneSignsWillBeUpgradedToMeetMUTCDStandards@ YMS.BikeLanes@ElvinWayBetweenAlameda&VictorLane&Hike&BikeTrailAmongPlayaLate									

ralBetweenElvin&JesuitDr

Program into the D2045 MTP, D21-24 TIP and 21-24 STIP-EXEMPT. 2019 TA/SRTS state-selected; Commission approved 1/30/20 MO 115662

PROJECT HISTORY:

Program into the D2045 MTP, D19-23 TIP and 19-22 STIP

				10	rogram into the L	220 10 11111 , D	io zo ini ana io zz			
Total Project Cos	t Information:					Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$249,953		į		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat 9TAP	SRTS	\$999,953	\$0	\$0	\$0	\$0	\$999,953
Construction:	\$750,000	Approved	İ	(TXDOT))					
Construction Engineering	: \$0	Phases:	Fund	d by Share	\$999,953	\$0	\$0	\$0	\$0	\$999,953
Contingencies:	\$0	\$999,953	•	-						
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change Order:	* -									
Total Project Cost:	\$999,953									
DDO IECT AMENDMENT	T LICTORY									

PROJECT AMENDMENT HISTORY

STIP Rev Date(s)	FY(s)	Note/Amend Date	e Note/Amendment
5/2020	2022	04/2020	Program into the D2045 MTP, D19-23 TIP and 19-22 STIP
07/2020	2022	05/2020	Program into the D2045 MTP, D21-24 TIP and 21-24 STIP-EXEMPT. 2019 TA/SRTS state-selected; Commission approved 1/30/20 MO 115662
'STID Doy Data(a)	alaa rafa	ro to TID Administra	stive Amendment (Lecal Revision) Date

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



					FY	2023 (SEPT - A	(UG)		ELF	aso Metropolitan Pl	enning Organization
	OUNTY	CSJ		IWY		PHASE	CIT		JECT SPON		YOE COST
TX DIST. 24		0924-06-613		N/A		Т	El Pa		County EP		\$2,245,213
	-	ansit Start-up assistan	ce for	FY23				REVISION DATE:	07/2020		
LIMITS FROM:	County Wide							MPO PROJECT ID:	T001-3		
LIMITS TO:	County Wide		. =					MTP REFERENCE:	T001-3		
TIP DESCRIPTION:	-	nsit Start-up assistance			D: E\(•		FUNDING CATEGORY		\ 44.04E	
REMARKS:	•	045 MTP, D21-24 TIP a	nd 21-	24 511	IP In FY 202	3		VOC (Kg/Day): 2.784		ay): 44.015	
*Note project is phase		··						NOX (Kg/Day): 2.182		J/Day): 1.041	
Total Project C		on:	į			Fadaud Obass		d Funding by Category		l al Camtaileatian	Tatal Chans
Preliminary Engineerin		04-4	_	_		Federal Share		_	ocal Share	Lcl Contribution	
Right Of Way:	\$0 \$4,139,85	Cost of Approved	Cat	5	CMAQ	\$1,796,170	\$0	\$0	\$449,043	\$0	\$2,245,213
Construction: Construction Engineer		Phases:		Fur	nd by Share	\$1,796,170	\$0	\$0	\$449,043	\$0	\$2,245,213
		£2.245.242									
Contingencies: Indirects:	\$0	\$2,245,213									
Bond Financing:	\$0 \$0										
Potential Change Orde											
Total Project Cost:	\$4,139,85										
PROJECT AMENDME	ENT HISTORY										
STIP Rev Date(s)	FY(s) Not	e/Amend Date Note/A	nendn	nent							
07/2020	2023	05/2020 Progra	n D20	45 MT	P. D21-24 T	TP and 21-24 S	ΓΙΡ in FY 2023				
		TIP Administrative Ame									
				CS	ai i tevisioii)		EI D	200	COED		222 454 620
TX DIST. 24		0924-06-611		US.		C,E	El Pa	REVISION DATE:	COEP 07/2020	3	622,451,630
TIP PROJECT NAME		=						MPO PROJECT ID:	B201X-CA	\D	
LIMITS FROM: LIMITS TO:	Nathan Bay I)r						MTP REFERENCE:	B201X-CA		
TIP DESCRIPTION:	Dyer St	ty Dr Extension: Constr	ict nov	, 4 1 2	no bridgo wit	th podostrian an		FUNDING CATEGORY			
TIF DESCRIPTION.		Nathan Bay Dr to Dyer		v 4-Lai	ne bridge wii	in pedesinan an	u bike	TONDING CATEGORY	. CAT 1, CF	AT 3 LO	
REMARKS:		D2045 MTP, D21-24 T		21-24	STIP in FY	2023					
	· · · · g · · · · · · · ·	,,,									
Total Project C	ost Information	 on:					Authorize	d Funding by Category	v/Share		
Preliminary Engineering			İ			Federal Share			ocal Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat	7	STP-MM	\$16,833,304	\$0	\$0	\$4,208,326	\$0	\$21,041,630
Construction:	\$17,641,3	Approved	1	3LC		\$0	\$0	\$0	\$0	\$1,410,000	\$1,410,000
Construction Engineer	ing: \$3,360,7	1 Phases:	Jul	020	Contribut	·	ΨΟ	ΨΟ	Ψ	ψ1,110,000	ψ1,110,000
Contingencies:	\$0	\$22,451,630)		ion						
Indirects:	\$279,550		!	Fur	nd by Share	\$16,833,304	\$0	\$0	\$4,208,326	\$1,410,000	\$22,451,630
Bond Financing:	\$0		•		-						
Potential Change Orde	er: \$0										
Total Project Cost:	\$22,451,6	30									
PROJECT AMENDME											
STIP Rev Date(s)	٠,	e/Amend Date Note/A	nendn	nent							
07/2020	2023	05/2020 Program	n into	D2045	5 MTP, D21-	24 TIP and 21-2	24 STIP in FY 2	2023			
'STIP Rev Date(s)	' also refers to	TIP Administrative Ame	ndmen	t (Loca	al Revision)	Date					
TX DIST. 24	EP	3592-01-009	SI	178		С	El Pa	aso	TXDOT	\$	193,500,000
TIP PROJECT NAME	: SH 178 OPE	RATIONAL IMPROVE	MENTS					REVISION DATE:	07/2020		
LIMITS FROM:	NM/TX STAT	ELINE						MPO PROJECT ID:	P136X		
LIMITS TO:	IH 10							MTP REFERENCE:	P136X		
TIP DESCRIPTION:		RATIONAL IMPROVEN						FUNDING CATEGORY	: CAT 12 St	trategic Priority	
		, rebuild I-10 overpass,	U-turn:	s, 4 Di	rect Connect	tors (DC) (3, 2-la	ne DC and				
	,	B DC will be 1-Lane)									
REMARKS:	Program into	D2045 MTP, D21-24 T	IP and	21-24	SIPINFY	2023					
					<u>;-</u> -						
*Project Sponsor payir								· <u>·</u>			
Total Project C			1 1 1			Foderal Ct :		ed Funding by Category		Lal Canadall - d	Tet-LOL
Preliminary Engineerin	• , , ,					Federal Share		_	ocal Share	Lcl Contribution	
Right Of Way:	\$0 \$103.500	Cost of Approved	Cat	12		\$154,800,000	\$38,700,000	\$0	\$0	\$0	\$193,500,000
Construction:	\$193,500	Phases:		_	Priorty		***	•-			****
Construction Engineer	-			Fur	nd by Share	\$154,800,000	\$38,700,000	\$0	\$0	\$0	\$193,500,000
Contingencies:	\$0	\$193,500,00	U								
Indirects:	\$0										
Bond Financing:	\$0										
Potential Change Orde											
Total Project Cost:	\$202,981	,500 									
PROJECT AMENDME	ENT HISTORY		_								

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

05/2020

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

2023

07/2020

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TIP PAGE: 2

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DISTRICT	COUNTY	CSJ		н۷	VY	PHASE	С	ITY I	PROJECT SPO	NSOR Y	OE COST
TX DIST. 24	EP	0924-06-566		VARI	IOUS	C,E	EI	Paso	COEP	\$	5,494,704
TIP PROJECT NAM	/IE: Traffic	Management Cer	ter Upgrade	Phas	e 2 - Design an	d Construction		REVISION DATE:	07/2020		
LIMITS FROM:	City of	El Paso city limits						MPO PROJECT ID	: S301E		
LIMITS TO:	City of	El Paso city limits						MTP REFERENCE	: S301E		
TIP DESCRIPTION:		Phase2 Design&Co						FUNDING CATEGO	DRY: CAT 5 CM	ΛAQ	
		TMC&Traffic Signal						VOC (Kg/Day): 17.5	51 CO (Kg/D	ay): 340.135	
DE144 D140		es both design&con	struction.P3-5	are t	the implementati	on&construction (of the	NOX (Kg/Day): 44.5	38 PM 10 (K	g/Day): 50.758	
REMARKS:	desigr Progra	i. am into D2045 MTF	P, D21-24 TIP	and 2	21-24 STIP in FY	′ 2023			*Note proj	ect is phased from F	Y 2022 - 2026
Total Project	Cost Info	rmation:					Authori	ed Funding by Cate	gory/Share		
Preliminary Enginee	ering: \$5	,360,329				Federal Share	State Shar	e Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	5 CAT 5	\$4,395,763	\$	\$0	\$1,098,941	\$0	\$5,494,704
Construction:	\$1	7,172,252	Approved		CMAQ						
Construction Engine	eering: \$2	,129,397	Phases:		Fund by Share	\$4,395,763	\$	\$0	\$1,098,941	\$0	\$5,494,704
Contingencies:	\$0	\$	5,494,704		_					·	
Indirects:	\$3	19,404									

PROJECT AMENDMENT HISTORY

\$0

\$24,981,382

Bond Financing: Potential Change Order:

Total Project Cost:

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

07/2020 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023

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						Y 2024 (SEPT - A	NUG)		6.0	aso Metropolitan Plai	mining or Monicorners
DISTRICT	COUNTY	CSJ		HW	/Y	PHASE	CIT	ΓY F	PROJECT SPOR	NSOR Y	OE COST
TX DIST. 24	EP	0924-06-60	9	C	S	C,E	El Pa	aso	COEP	\$	1,869,824
TIP PROJECT NA	ME: Borde	Highway West	Hike and Bike	Trail				REVISION DATE:	07/2020		
LIMITS FROM:	Racetr	ack (2) interchan	ge					MPO PROJECT ID:	: E112X		
LIMITS TO:	Execut	ive Center (2) int	erchange					MTP REFERENCE:	E112X		
TIP DESCRIPTION	N: Border	Highway West F	like and Bike T	rail: Pr	oject includes i	nstallation of an 1	1-foot asphalt	FUNDING CATEGO	DRY: CAT 5		
		ent hike and bike	•					VOC (Kg/Day): 0.22	21 CO (Kg/D	ay): 2.964	
REMARKS:	Progra	m into D2045 M	TP, D21-24 TIF	and 2	1-24 STIP in F	Y 2024		NOX (Kg/Day): 0.16	i4 PM 10 (K	g/Day): 0.014	
Total Project	ct Cost Info	mation:		Ţ			Authorize	ed Funding by Cate	nory/Share		
Preliminary Engine		7,456		İ		Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	5 CMAQ	\$1,495,859	\$0	\$0	\$373,965	\$0	\$1,869,824
Construction:	\$1,0	093,847	Approved	jul.							. , ,
Construction Engin	neering: \$28	0,474	Phases:	1	Fund by Shar	e \$1,495,859	\$0	\$0	\$373,965	\$0	\$1,869,824
Contingencies:	\$0		\$1,869,824								
Indirects:	\$28	,047	. , ,								
Bond Financing:	\$0	,									
Potential Change C	Order: \$0										
Total Project Cost		369,824									
PROJECT AMEND	DMENT HIS	TORY									
STIP Rev Date		Note/Amend I	Date Note/Am	endme	nt						
07/2020	2024	05/2020				1-24 TIP and 21-2	4 STIP in FV 2	2024			
			•				.40111 1111 1 2	-02-4			
		ara ta TID Admin	intrativa Amana	dmont /	Local Davision	\ Doto					
	()		istrative Ameno			,	Coor		Casarra	¢.	00.000.000
TX DIST. 24	EP	0924-06-60)7	C	S	С	Soco		Socorro	\$2	20,000,000
	EP .ME: Nuevo	0924-06-60 Hueco Tanks E)7 xtension-Phas	C	S	С		REVISION DATE:	07/2020	·	20,000,000
TX DIST. 24 TIP PROJECT NA	EP ME: Nuevo Tanks	0924-06-60 Hueco Tanks E to "Nuevo" Hue)7 xtension-Phas	C	S	С		REVISION DATE: MPO PROJECT ID:	07/2020 : A527X-C /	AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM:	EP ME: Nuevo Tanks FM 76	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr	07 xtension-Phas co Tanks)	C	S	С		REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2020 A527X-CA	AP-1 AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA	EP ME: Nuevo Tanks FM 76 SH 20	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu	07 xtension-Phas co Tanks) ue	CS se I (St	S reet name upo	C lated from "Old"	Hueco	REVISION DATE: MPO PROJECT ID:	07/2020 A527X-CA	AP-1 AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks):	xtension-Phas co Tanks) ue tension-Phase Build 4 lane ro	CS se I (Street	reet name upo et name update and shared-us	C lated from "Old"	Hueco	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2020 A527X-CA	AP-1 AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D:	0924-06-6(Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2	xtension-Phas co Tanks) ue tension-Phase Build 4 lane ro 24 TIP and 21-2	CS se I (Stree) (Stree) adway 24 STIF	reet name uponet name update and shared-us	C lated from "Old" ed from "Old" Huede path Program	Hueco	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2020 A527X-CA	AP-1 AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 ss in FY 2020, Co	xtension-Phas co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2	CS se I (Stree) (Stree) adway 24 STIF	reet name uponet name update and shared-us	C lated from "Old" ed from "Old" Huede path Program	Hueco	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2020 A527X-CA	AP-1 AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 ss in FY 2020, Co	xtension-Phas co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2	CS se I (Stree) (Stree) adway 24 STIF	reet name uponet name update and shared-us	C lated from "Old" ed from "Old" Huede path Program	Hueco	REVISION DATE: MPO PROJECT ID: MTP REFERENCE:	07/2020 A527X-CA	AP-1 AP-1	20,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa paying for PE ct Cost Info	0924-06-6(Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co	xtension-Phas co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2	CS se I (Stree) (Stree) adway 24 STIF	reet name uponet name update and shared-us	C lated from "Old" ed from "Old" Huede path Program	Hueco co Tanks to Authorize	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO	07/2020 : A527X-C / : A527X-C/ DRY: CAT 7, C/	AP-1 AP-1 AT 3 LC	
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa paying for PE ct Cost Information in the content of the cost in the co	0924-06-6(Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co rmation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2 construction phasests, if any.	CS se I (Stree) (Stree) adway 24 STIF	reet name uponet name update and shared-us	C lated from "Old" ed from "Old" Huede path Program	Hueco co Tanks to Authorize	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO	07/2020 : A527X-C / : A527X-C/ DRY: CAT 7, C/	AP-1 AP-1	20,000,000 Total Share
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa paying for PE ct Cost Information of the cost information	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21- construction phasests, if any. Cost of	CS se I (Stree) (Stree) adway 24 STIF	et name update and shared-us in FY 2024 FY 2024 and F	C lated from "Old" ed from "Old" Huee e path Program Y2031 Federal Share \$0	Hueco co Tanks to Authorize	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO	07/2020 : A527X-C / : A527X-C/ DRY: CAT 7, C/	AP-1 AP-1 AT 3 LC	
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa paying for PE ct Cost Information of the pering: \$3," \$1," \$20	0924-06-6(Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co rmation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21- construction pha ests, if any. Cost of Approved	I (Street oadway 24 STIF ases in	et name update and shared-us in FY 2024 FY 2024 and F	C lated from "Old" ed from "Old" Huee e path Program Y2031 Federal Share \$0	Co Tanks to Authorize State Share	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Category	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share	AP-1 AP-1 AT 3 LC Lcl Contribution	Total Share
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TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction: Construction Engine Contingencies:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa aying for PE ct Cost Information of the pering: \$3," \$1," \$20 neering: \$0 \$0	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21- construction pha ests, if any. Cost of Approved	I (Street of Street	et name update and shared-us in FY 2024 FY 2024 and F 3LC Local Contribution (TRZ)	C lated from "Old" ed from "Old" Huee e path Program Y2031 Federal Share \$0	Co Tanks to Authorize State Share	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Category Regional Share \$0	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share	AP-1 AP-1 AT 3 LC Lcl Contribution \$15,000,000	Total Share \$15,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction: Construction Engine Contingencies: Indirects:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa aying for PE ct Cost Information of the cost information o	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2 construction phasests, if any. Cost of Approved Phases:	I (Street oadway 24 STIF ases in	et name update and shared-us FY 2024 FY 2024 and F Contribution (TRZ) T STP-MM	C lated from "Old" ed from "Old" Huege path Program Y2031 Federal Share \$0 ut	Authorize State Share \$0	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Categorial Share \$0 \$0	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share \$0 \$1,000,000	AP-1 AP-1 AT 3 LC Lcl Contribution \$15,000,000	Total Share \$15,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction: Construction Engine Contingencies: Indirects: Bond Financing:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa aying for PE ct Cost Information of the cost information o	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2 construction phasests, if any. Cost of Approved Phases:	I (Street of Street	et name update and shared-us in FY 2024 FY 2024 and F 3LC Local Contribution (TRZ)	C lated from "Old" ed from "Old" Huege path Program Y2031 Federal Share \$0 ut	Co Tanks to Authorize State Share	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Categorial Share \$0 \$0	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share	AP-1 AP-1 AT 3 LC Lcl Contribution \$15,000,000	Total Share \$15,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction: Construction Engin Contingencies: Indirects: Bond Financing: Potential Change C	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa aying for PE ct Cost Information of the cost information o	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000 ,000,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2 construction phasests, if any. Cost of Approved Phases:	I (Street of Street	et name update and shared-us FY 2024 FY 2024 and F Contribution (TRZ) T STP-MM	C lated from "Old" ed from "Old" Huege path Program Y2031 Federal Share \$0 ut	Authorize State Share \$0	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Categorial Share \$0 \$0	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share \$0 \$1,000,000	AP-1 AP-1 AT 3 LC Lcl Contribution \$15,000,000	Total Share \$15,000,000
TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction: Construction Engine Contingencies: Indirects: Bond Financing:	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE wa aying for PE ct Cost Information of the cost information o	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000	xtension-Phase co Tanks) ue ttension-Phase Build 4 lane ro 24 TIP and 21-2 construction phasests, if any. Cost of Approved Phases:	I (Street of Street	et name update and shared-us FY 2024 FY 2024 and F Contribution (TRZ) T STP-MM	C lated from "Old" ed from "Old" Huege path Program Y2031 Federal Share \$0 ut	Authorize State Share \$0	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Categorial Share \$0 \$0	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share \$0 \$1,000,000	AP-1 AP-1 AT 3 LC Lcl Contribution \$15,000,000	Total Share \$15,000,000
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TX DIST. 24 TIP PROJECT NA LIMITS FROM: LIMITS TO: TIP DESCRIPTION REMARKS: *Note project is pha *Project Sponsor p Total Project Preliminary Engine Right Of Way: Construction: Construction Engin Contingencies: Indirects: Bond Financing: Potential Change C Total Project Cost	EP ME: Nuevo Tanks FM 76 SH 20 N: Nuevo "Nuevo into D: ased, PE was paying for PE ct Cost Info eering: \$3, \$1, \$20 neering: \$0 \$0 \$0 Order: \$0 t: \$25	0924-06-60 Hueco Tanks E to "Nuevo" Hue North Loop Dr - Alameda Avenu Hueco Tanks Ex " Hueco Tanks): 2045 MTP, D21-2 as in FY 2020, Co and/or ROW Co mation: 500,000 500,000 ,000,000	xtension-Phase co Tanks) ue tension-Phase Build 4 lane ro 24 TIP and 21-/ construction phasests, if any. Cost of Approved Phases: \$20,000,000	I (Stree adway 24 STIF ases in Cat	et name update and shared-us P in FY 2024 FY 2024 and F Contribution (TRZ) 7 STP-MN	C lated from "Old" ed from "Old" Huege path Program Y2031 Federal Share \$0 ut	Authorize State Share \$0	REVISION DATE: MPO PROJECT ID: MTP REFERENCE: FUNDING CATEGO ed Funding by Categorial Share \$0 \$0	07/2020 : A527X-C/ : A527X-C/ DRY: CAT 7, C/ gory/Share Local Share \$0 \$1,000,000	AP-1 AP-1 AT 3 LC Lcl Contribution \$15,000,000	Total Share \$15,000,000

2024 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024 7/2020 05/2020

WEDNESDAY, JANUARY 13, 2021 4:51:44 PM

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS FY 2024 (SEPT - AUG)



						FY	2024 (SEPT - A	UG)			CI (Paso Metropolitan	rienning urganizat
	COUNTY	CSJ			WY		PHASE		TY	P	ROJECT SPO	NSOR	YOE COST
TX DIST. 24	EP	0924-06-5	67	,	VA		С	ELF	Paso		COEP		\$4,771,259
TIP PROJECT NAM	IE: Traffic N	lanagement (Center Upgrade	e Pha	se 3 -	Construction	on		REVISIO	N DATE:	07/2020		
LIMITS FROM:	City of E	Paso city lim	its						MPO PRO	OJECT ID:	S301F		
LIMITS TO:	City of E	Paso city lim	its						MTP REF	ERENCE:	S301F		
TIP DESCRIPTION:	TMC&Tr	affic Signal co	ntroller equipme	ent cit	y wide	e. P1 is the de	of the City of El esign phase. P2 ruction of the des	includes	VOC (Kg/	/Day): 17.51	. •	ay): 340.135	
REMARKS: *Note project is phase			/ITP, D21-24 TIF	P and	21-24	STIP in FY	2024		NOX (Kg/	/Day): 44.53	00 PW 10 (K)	g/Day): 50.758	
*Project Sponsor alre	eady receive	d PE monies	in Phases 1 & 2	2		 							
Total Project			· -	T				Authoriz	ed Fundin	g by Categ	ory/Share		
Preliminary Engineer	ring: \$5,36	0,329		į			Federal Share	State Share		al Share	Local Share	Lcl Contribution	n Total Share
Right Of Way:	\$0		Cost of	Cat	3LC	Local	\$0	\$0)	\$0	\$0	\$2,750.00	\$2,750.00
Construction:	\$17,1	72,252	Approved	i		Contribut				•	•	. , ,	, ,,
Construction Engine	ering: \$2,12	9,397	Phases:			ion							
Contingencies:	\$0		\$4,771,259	Cat	5	CMAQ	\$1,617,007	\$0)	\$0	\$404,252	\$	\$2,021,25
Indirects:	\$319	404		1	Fur	nd by Share	\$1,617,007	\$0	1	\$0	\$404,252	\$2,750,00	\$4,771,25
Bond Financing:	\$0			1			4 1,011,001	•		**	¥,	4 2,,	V 1,1.1.,=0
Potential Change Or													
	• •	81 382											
Total Project Cost:	MENT HISTORS) FY(s)	DRY Note/Amend	nistrative Amen	into dmen	D2045		24 TIP and 21-2 Date C		2024 uton		Vinton		\$7,000,000
Total Project Cost: PROJECT AMENDI STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF	Note/Amend 05/2020 s to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTIS, DRAINAGE,	into dmen (TION ION: F LIGH	D2045 t (Loca CS RECO TING	al Revision) [NSTRUCTION AND ILLUMI	C C ON OF ROADWA	Vir AY TO	nton REVISIOI MPO PRO MTP REF	OJECT ID: FERENCE:	Vinton 07/2020 A137X A137X RY: CAT 7		\$7,000,000
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program	Note/Amend 05/2020 s to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 N	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTIS, DRAINAGE, MTP, D21-24 TIF	into dmen (TION ION: F LIGH	D2045 t (Loca CS RECO TING	al Revision) [NSTRUCTION AND ILLUMI	C C ON OF ROADWA	Vir AY TO	nton REVISIOI MPO PRO MTP REF	OJECT ID: FERENCE:	07/2020 A137X A137X		\$7,000,000
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS: *Project Sponsor pate	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program	NOTE A MENTER OF THE PROPERTY	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTIS, DRAINAGE, MTP, D21-24 TIF	into dmen (TION ION: F LIGH	D2045 t (Loca CS RECO TING	al Revision) [NSTRUCTION AND ILLUMI	C C ON OF ROADWA	Vir AY TO CSAPING,	TEVISION MPO PROMITE REFERENCE FUNDING	OJECT ID: FERENCE: G CATEGOR	07/2020 A137X A137X A137X RY: CAT 7		\$7,000,000
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: REMARKS:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a	Note/Amend 05/2020 s to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M and/or ROW C	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTIS, DRAINAGE, MTP, D21-24 TIF	into dmen (TION ION: F LIGH	D2045 t (Loca CS RECO TING	al Revision) I	C C ON OF ROADWA	Vir AY TO CSAPING, ————————————————————————————————————	REVISION REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR	07/2020 A137X A137X A137X RY: CAT 7	Lcl Contributio	
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a	NOTE A MENTER OF THE PROPERTY	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTIS, DRAINAGE, MTP, D21-24 TIF	into dmen (TION ION: F LIGH	D2045 t (Location CS RECOTING 21-24	al Revision) I	DATE C DN OF ROADW/ NATION, LAND 2024 Federal Share	Vir AY TO CSAPING, Authoriz State Share	REVISION REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR G by Categor G by Categor G Share	07/2020 A137X A137X A137X RY: CAT 7 ory/Share Local Share	Lcl Contributio	n Total Shar
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (E IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inform ring: \$1,00	Note/Amend 05/2020 Is to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M Ind/or ROW C Ination: 0,000	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, MTP, D21-24 TIF Costs, if any.	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	NSTRUCTIC AND ILLUMI 4 STIP in FY	Date C C DN OF ROADW/ NATION, LAND 2024 Federal Share \$5,600,000	AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR g by Categoral Share \$0	07/2020 A137X A137X RY: CAT 7 ory/Share Local Share \$1,400,000	\$	on Total Shar 3 \$7,000,00
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way: Construction:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inforn ring: \$1,00 \$500 \$7,00	NOTE A MENTER OF THE PROPERTY	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, ATP, D21-24 TIF Costs, if any. Cost of	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	al Revision) I	DATE C DN OF ROADW/ NATION, LAND 2024 Federal Share	Vir AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR G by Categor G by Categor G Share	07/2020 A137X A137X A137X RY: CAT 7 ory/Share Local Share		on Total Shar 3 \$7,000,00
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way: Construction: Construction Engine	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inforn ring: \$1,00 \$500 \$7,00	Note/Amend 05/2020 Is to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M Ind/or ROW C Ination: 0,000	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, ATP, D21-24 TIF Costs, if any. Cost of Approved Phases:	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	NSTRUCTIC AND ILLUMI 4 STIP in FY	Date C C DN OF ROADW/ NATION, LAND 2024 Federal Share \$5,600,000	AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR g by Categoral Share \$0	07/2020 A137X A137X RY: CAT 7 ory/Share Local Share \$1,400,000	\$	on Total Shar 3 \$7,000,00
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way: Construction:	MENT HISTO s) FY(s) 2024 (s)' also refer EP HE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inforn ring: \$1,00 \$500 \$7,00 eering: \$0	Note/Amend 05/2020 Is to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M Ind/or ROW C Ination: 0,000	Program nistrative Amend 506 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, ATP, D21-24 TIF Costs, if any. Cost of Approved	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	NSTRUCTIC AND ILLUMI 4 STIP in FY STP-MM	Date C C DN OF ROADW/ NATION, LAND 2024 Federal Share \$5,600,000	AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR g by Categoral Share \$0	07/2020 A137X A137X RY: CAT 7 ory/Share Local Share \$1,400,000	\$	on Total Shar
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way: Construction: Construction Engine Contingencies: Indirects:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inforn ring: \$1,00 \$500 \$7,00 eering: \$0 \$0	Note/Amend 05/2020 Is to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M Ind/or ROW C Ination: 0,000	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, ATP, D21-24 TIF Costs, if any. Cost of Approved Phases:	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	NSTRUCTIC AND ILLUMI 4 STIP in FY STP-MM	Date C C DN OF ROADW/ NATION, LAND 2024 Federal Share \$5,600,000	AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR g by Categoral Share \$0	07/2020 A137X A137X RY: CAT 7 ory/Share Local Share \$1,400,000	\$	on Total Shar
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way: Construction: Construction Engine Contingencies: Indirects: Bond Financing:	MENT HISTO s) FY(s) 2024 (s)' also refer EP IE: VALLEY SH 20 (E IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inforn ring: \$1,00 \$500 \$7,00 \$0 \$0 \$0 \$0	Note/Amend 05/2020 Is to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M Ind/or ROW C Ination: 0,000	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, ATP, D21-24 TIF Costs, if any. Cost of Approved Phases:	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	NSTRUCTIC AND ILLUMI 4 STIP in FY STP-MM	Date C C DN OF ROADW/ NATION, LAND 2024 Federal Share \$5,600,000	AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR g by Categoral Share \$0	07/2020 A137X A137X RY: CAT 7 ory/Share Local Share \$1,400,000	\$	on Total Shar 3 \$7,000,00
Total Project Cost: PROJECT AMENDM STIP Rev Date(s 07/2020 'STIP Rev Date(s) TX DIST. 24 TIP PROJECT NAM LIMITS FROM: LIMITS TO: TIP DESCRIPTION: *Project Sponsor pat Total Project Preliminary Engineer Right Of Way: Construction: Construction Engine Contingencies: Indirects:	MENT HISTO s) FY(s) 2024 (s)' also refer EP HE: VALLEY SH 20 (I IH -10 VALLEY INCLUD AND IRF Program ying for PE a Cost Inforn ring: \$1,00 \$500 \$7,00 cering: \$0 \$0 \$0 \$0 \$0 rder: \$0	Note/Amend 05/2020 Is to TIP Admi 0924-06-6 CHILE RD R ONIPHAN DI CHILE RD RI E SIDEWALK RIGATION into D2045 M Ind/or ROW C Ination: 0,000	Program nistrative Amend 606 ECONSTRUCT R) ECONSTRUCTI S, DRAINAGE, ATP, D21-24 TIF Costs, if any. Cost of Approved Phases:	into dmen (TION ION: F LIGH	D2045 t (Local CS RECOTING 21-24	NSTRUCTIC AND ILLUMI 4 STIP in FY STP-MM	Date C C DN OF ROADW/ NATION, LAND 2024 Federal Share \$5,600,000	AY TO CSAPING, Authoriz State Share	REVISION MPO PRO MTP REF FUNDING	OJECT ID: FERENCE: G CATEGOR g by Categoral Share \$0	07/2020 A137X A137X RY: CAT 7 ory/Share Local Share \$1,400,000	\$	on Total Shar 3 \$7,000,00



 $^{^2}$ Congestion Mitigation and Air Quality (CMAQ) Analyses can be found in Appendix A provided upon request and/or attached into the electronic version of this document.

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07/2020

2021

05/2020 'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date

EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



							Y 2021 (SEPT - A			Eli	Paso Metropolitan P	enning Organization
DISTRICT	COUNT	Y CSJ		н	WY	•	PHASE	CIT	гү Р	ROJECT SPO	NSOR	YOE COST
TX DIST. 24	EP	0924-06-	572		I/A		T	El P		Sun Metro		\$2,288,542
TIP PROJECT NA	ME: Alar	neda RTS 3rd ye	ar Operating As	ssista	nce				REVISION DATE:	07/2020		
LIMITS FROM:	Dow	ntown terminal - S	Santa Fe						MPO PROJECT ID:	T096X		
LIMITS TO:	Miss	ion Valley Termin	al - Alameda @	Zaraç	joza				MTP REFERENCE:	T096X		
TIP DESCRIPTION	N: Alan	neda RTS 3rd yea	r Operating Ass	istanc	e: 3rd	year of Ala	meda RTS opera	tions	FUNDING CATEGO	RY: CAT 5 CM	MAQ, CAT 3 LC	
REMARKS:	Prog	ram into D2045 I	MTP, D21-24 TI	P and	21-24	STIP in F	Y 2021 Exempt		VOC (Kg/Day): 3.842	2 CO (Kg/D	ay): 81.523	
									NOX (Kg/Day): 6.188	B PM 10 (K	g/Day): 1.948	
							PROJECT HISTO		IP, 19-22 STIP, in FY	2021.		
Total Project	ct Cost In	formation:		Ţ		<u>.</u>			ed Funding by Categ			
Preliminary Engine				İ			Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:		0	Cost of	Cat	5	CMAQ	\$911,887	\$0	\$0	\$227,972	\$0	\$1,139,859
Construction:	9	2,288,542	Approved	1	3LC	Local	\$0	\$0	\$0	\$0	\$1,148,683	\$1,148,683
Construction Engin	neering: \$	0	Phases:	Cat	JLO	Contribu		ΨΟ	ΨΟ	ΨΟ	ψ1,140,000	ψ1,140,000
Contingencies:		0	\$2,288,542			tion						
Indirects:	9	0			Fun	d by Share	\$911,887	\$0	\$0	\$227,972	\$1,148,683	\$2,288,542
Bond Financing:	9	0		1		•		•	•		. , ,	
Potential Change C	Order: \$	0										
Total Project Cos		2,288,542										
PROJECT AMENI	DMENT H	ISTORY										
STIP Rev Date	e(s) FY(s) Note/Amend	Date Note/Am	nendn	nent							
07/2018	202	•				P D10-22	TIP, 19-22 STIP, i	in FY 2021				
									2004 5			
07/2020	202		Ū				1-24 TIP and 21-2	4 STIP IN FY	2021 Exempt			
		refers to TIP Adm			_	al Revision						
TX DIST. 24	EP	0924-06-			I/A		Т	El P		Sun Metro		\$1,538,029
TIP PROJECT NA	-	-		ance					REVISION DATE:	07/2020		
LIMITS FROM:		ntown terminal - S							MPO PROJECT ID:			
LIMITS TO:		heast Terminal - [MTP REFERENCE:	T095X		
TIP DESCRIPTION	,	RTS 3rd year Op	•		•	-	•		FUNDING CATEGO		MAQ, CAT 3 LC	
REMARKS:	Prog	ram into D2045 l	MTP, D21-24 TI	P and	21-24	STIP in F	Y 2021-Exempt		VOC (Kg/Day): 3.38	. •	ay): 68.691	
									NOX (Kg/Day): 5.17	PM 10 (K	g/Day): 1.55	
							PROJECT HISTO		IP, 19-22 STIP, in FY	2021		
Total Project	ct Cost In	formation:		Ţ		<u>"</u>	9	. —	ed Funding by Categ			
Preliminary Engine				i			Federal Share			Local Share	Lcl Contribution	Total Share
Right Of Way:		0	Cost of	Cat	5	CMAQ	\$911,887	\$0	\$0	\$227,972	\$0	\$1,139,859
Construction:	9	1,538,029	Approved	- 1	3LC	Local	\$0	\$0	\$0	\$0	\$398,170	\$398,170
Construction Engin		<u> </u>	Phases:	Cat	SLC	Contribu	·	\$0	ΦU	Φυ	\$390,17U	\$396,170
Contingencies:		0	\$1,538,029			tion						
Indirects:		0	+ -,- 50,0=0		Fund	d by Share	\$911,887	\$0	\$0	\$227,972	\$398,170	\$1,538,029
Bond Financing:		0		!		, c	ψο 11,001	40	Ų.	4221,012	φοσο,σ	ψ1,000,020
Potential Change (0										
Total Project Cost		1,538,029										
		.,										
PROJECT AMEND	DMENT H	ISTORY										
STIP Rev Date	e(s) FY(s) Note/Amend	Date Note/Am	endn	nent							
07/2018	202	21 05/2018	B Program	D204	5 MTI	P, D19-22	TIP, 19-22 STIP, i	n FY 2021.				

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

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EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2022 (SEPT - AUG)

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-574	N/A	T	El Paso	Sun Metro	\$1,917,592
TIP PROJECT NA	ME: Montana	RTS 1st year Opera	ing Assistance		REVISION	DATE: 07/2020	
LIMITS FROM:	Downtow	n terminal - Santa Fe			MPO PRO	JECT ID: T092X	
LIMITS TO:	Far East	Terminal - RC Poe &	Edgemere		MTP REFE	RENCE: T092X	
TIP DESCRIPTION	N: Montana	RTS 1st year Operatin	ng Assistance: 1st year of	Montana RTS operations	FUNDING (CATEGORY: CAT 5 CMAQ	
REMARKS:	Program	D2045 MTP, D21-24	TIP, 21-24 STIP, in FY 20	022. Exempt	VOC (Kg/D	ay): 5.371 CO (Kg/Day): 110.234	
					NOX (Kg/D	ay): 8.313 PM 10 (Kg/Day): 2.522	2
							—

PROJECT HISTORY:

Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description from Montana RTS 2nd Year Operating Assitance to Montana 1st Year Operating Assitance.-Exempt

Total Project Cost Information:			Authorized Funding by Category/Share										
Preliminary Engineering:	\$0		1		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share			
Right Of Way:	\$0	Cost of	Cat	5 CMAQ	\$1,534,074	\$0	\$0	\$383,518	\$0	\$1,917,592			
Construction:	\$1,917,592	Approved			\$0	\$0	\$0	\$0	\$0	\$0			
Construction Engineering:	: \$0	Phases:				•		·		·			
Contingencies:	\$0	\$1,917,592	į	Fund by Share	\$1,534,074	\$0	\$0	\$383,518	\$0	\$1,917,592			
Indirects:	\$0	_											
Bond Financing:	\$0												
Potential Change Order:	\$0												
Total Project Cost:	\$1,917,592												

PROJECT AMENDMENT HISTORY

		•	
STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
07/2018	2021	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.
11/2019	2021	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description from Montana RTS 2nd Year Operating Assitance to Montana 1st Year Operating AssitanceExempt
05/2020	2022	04/2020	Program D2045 MTP, D19-23 TIP, 19-22 STIP, in FY 2022. Exempt
07/2020	2022	05/2020	Program D2045 MTP, D21-24 TIP, 21-24 STIP, in FY 2022. Exempt
'STIP Rev Date(s)'	also refe	ers to TIP Administrat	tive Amendment (Local Revision) Date

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EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



FY 2023 (SEPT - AUG)

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
TX DIST. 24	EP	0924-06-575	N/A	Т	El Paso	Sun Metro	\$1,300,000
TIP PROJECT NA	ME: Montana	RTS 2nd year Opera	ting Assistance		REVISION D	ATE: 07/2020	
LIMITS FROM:	Downtow	n terminal - Santa Fe			MPO PROJE	ECT ID: T097X	
LIMITS TO:	Far East	Terminal - RC Poe & E	dgemere		MTP REFER	RENCE: T097X	
TIP DESCRIPTION	N: Montana	RTS 2nd year Operation	ng Assistance: 2nd year o	of Montana RTS operations	FUNDING CA	ATEGORY: CAT 5 CMAQ, CAT 3 LC	
REMARKS:	Program	D2045 MTP, D21-24	ΓΙΡ, 21-24 STIP, in FY 20	023. Exempt	VOC (Kg/Day	y): 5.191 CO (Kg/Day): 108.402	
					NOX (Kg/Day	y): 7.719 PM 10 (Kg/Day): 2.588	

PROJECT HISTORY:

Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description from Montana RTS 3rd Year Operating Assitance to Montana 2nd Year Operating Assitance.-Exempt

Total Project Cost	Information:		!			Authorize	d Funding by Cate	gory/Share		
Preliminary Engineering:	\$0		İ		Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat	5 CMAQ	\$1,040,000	\$0	\$0	\$260,000	\$0	\$1,300,000
Construction:	\$1,300,000	Approved			\$0	\$0	\$0	\$0	\$0	\$0
Construction Engineering	: \$0	Phases:	j			•				· · · · · · · · · · · · · · · · · · ·
Contingencies:	\$0	\$1,300,000	!	Fund by Share	\$1,040,000	\$0	\$0	\$260,000	\$0	\$1,300,000
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change Order:	\$0									
Total Project Cost:	\$1,300,000									
PROJECT AMENDMENT	T HISTORY									

STIP Rev Date(s)	FY(s)	Note/Amend Date	Note/Amendment
07/2018	2022	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.
11/2019	2022	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description from Montana RTS 3rd Year Operating Assitance to Montana 2nd Year Operating AssitanceExempt
5/2020	2023	04/2020	Amend D2045 MTP, D19-23 TIP, 19-22 STIP to reprogram from FY 2022 to FY 2023 - Exempt
7/2020	2023	05/2020	Program D2045 MTP, D21-24 TIP, 21-24 STIP, in FY 2024. Exempt
'STIP Rev Date(s)'	also refe	rs to TIP Administrat	tive Amendment (Local Revision) Date

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EL PASO MPO 2021-2024 STATE TRANSPORTATION IMPROVEMENT PROGRAM EL PASO DISTRICT PROJECTS



							SO DISTRICT PE Y 2024 (SEPT - A			El	Paso Metropolitan P	lenning Organization
DISTRICT	COUNTY	CSJ		н	IWY		PHASE	CIT	ΓY PR	OJECT SPO	NSOR	YOE COST
TX DIST. 24	EP	0924-06-54	1		N/A		T	EIP		Sun Metro		\$4,423,490
TIP PROJECT NAM	ME: Montana	RTS 3rd vear	service opera	itina	assist	tance			REVISION DATE:	07/2020		, ,
LIMITS FROM:		ts Terminal - 28	-	5					MPO PROJECT ID:	T093X		
LIMITS TO:		Terminal - R.C.		ere					MTP REFERENCE:	T093X		
TIP DESCRIPTION			J		sistan	ce: 3rd yea	r of Montana BRT	-RTS	FUNDING CATEGOR	Y: CAT 5 CN	MAQ. CAT 3 LC	
	operation			5		, , , , , , , , , , , , , , , , , , , ,			VOC (Kg/Day): 5.553		ay): 100.325	
REMARKS:	Program	in the D2045 N	/ITP, D21-24 T	TP, 2	1-24 S	STIP, in FY	2023		NOX (Kg/Day): 2.929		g/Day): 1.629	
		-				<i>F</i>		MTP, D19-23 rating Assitan FY 2029.	TIP, 19-22 STIP to upo	Operating As		
•	t Cost Inform	ation:							ed Funding by Catego	•		
Preliminary Enginee				1			Federal Share		ŭ	Local Share	Lcl Contribution	
Right Of Way:	\$0		Cost of	Cat	5	CMAQ	\$1,600,000	\$0	\$0	\$400,000	\$0	\$2,000,000
Construction:	\$4,42	3,490	Approved Phases:	Cat	3LC		\$0	\$0	\$0	\$0	\$2,423,490	\$2,423,490
Construction Engine	<u> </u>			Ì		Contribu						
Contingencies:	\$0		\$4,423,490	i		tion						
Indirects:	\$0			1	Fun	d by Share	\$1,600,000	\$0	\$0	\$400,000	\$2,423,490	\$4,423,490
Bond Financing:	\$0											
Potential Change C												
Total Project Cost	: \$4,42	3,490 										
02/2017	2020	10/2016	Amend H	12040) MTP	, H17-20 TI	IP, 17-20 STIP to	program in FY	2020 EXEMPT			
07/2018	2020	05/2018	Program	D204	45 MT	P, D19-22	TIP, 19-22 STIP, i	in FY 2020.				
11/2019	2029	10/2019							eject name and descript	tion from Mon	tana RTS 1st Year	Operating
11,2010	2020	10/2010							ge from FY 2020 to FY		and Tel Tot Tour	oporating
7/2020	2023	05/2020	Program	in th	e D20)45 MTP, D	21-24 TIP, 21-24	STIP, in FY 20	023			
'STIP Rev Date	(s)' also refers	to TIP Adminis	strative Amend	dmen	t (Loca	al Revision) Date					
TX DIST. 24	EP	0924-06-61	0	1	V/A		T	El P	aso	Sun Metro		\$3,280,176
TIP PROJECT NAI	ME: Park and	Ride Far Wes	t						REVISION DATE:	07/2020		
LIMITS FROM:	Loop 375	Westside							MPO PROJECT ID:	T106		
LIMITS TO:	Desert Bo	oulevard							MTP REFERENCE:	T106		
TIP DESCRIPTION	l: Park and	Ride Far West	: Create a Parl	k and	Ride	site in Far \	West El Paso in th	ne area of I-	FUNDING CATEGOR	Y: CAT 5		
		ansmountain							VOC (Kg/Day): 1.264	CO (Kg/D	ay): 18.715	
REMARKS:	Program	into D2045 MT	P, D21-24 TIF	o and	21-24	STIP in F	Y 2024-Exempt		NOX (Kg/Day): 0.535	PM 10 (K	g/Day): 0.632	
•	t Cost Inform	ation:		Τ				Authorize	ed Funding by Catego	ry/Share		
Preliminary Engine				ļ			Federal Share	State Share	Regional Share I	_ocal Share	Lcl Contribution	Total Share
Right Of Way:	\$0		Cost of	Cat	5	CMAQ	\$2,624,141	\$0	\$0	\$656,035	\$0	\$3,280,176
Construction:	\$3,28	0,176	Approved Phases:	1	Fun	d by Share	\$2,624,141	\$0	\$0	\$656,035	\$0	\$3,280,176
Construction Engine				:		-	•			•		
Contingencies:	\$0		\$3,280,176									
Indirects:	\$0											
Bond Financing:	\$0											
Potential Change C	order: \$0											

PROJECT AMENDMENT HISTORY

Total Project Cost:

STIP Rev Date(s) FY(s) Note/Amend Date Note/Amendment

\$3,280,176

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

'STIP Rev Date(s)' also refers to TIP Administrative Amendment (Local Revision) Date



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EL PASO MPO 2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS



Fed FY 2021 (Oct - Sept)

DISTRICT	COUNTY	CSJ/CN	HWY	PHASE	CITY	PROJ	IECT SPONSOR	YOE COST
NM DIST. 1	DA	E100202	IH 10	С	Anthony		NMDOT	\$19,091,351
TIP PROJECT NA	ME: NM 404/I	-10 Bridge Replacem	ent		REVISION	DATE:	07/2020	
LIMITS FROM:	At I-10 &	NM 404 Interchange			MPO PRO	JECT ID:	B607X	
LIMITS TO:					MTP REFE	RENCE:	B607X	
TIP DESCRIPTION	N: Bridge Re	eplacement at NM 404	/I-10 Interchange		FUNDING	CATEGORY:		unds, SBSI Border, NHPP,
REMARKS:	Admin an	nend Destino 2045 MT	P and Destino 2019-2023	TIP to add \$1 of Cool	rdinated		CMAQ, STP-L, STI	P-F, STLE, CBIP
			unds (CBIP), add \$10,750			ay): 0.0339	CO (Kg/Day): 0.168	3
			of State Legislative Funds,			ay): 0.0097	PM 10 (Kg/Day): 0.	0071
		0 (,	funds to \$1,597,932 for a t	otal funding of \$19,90	1,351 in			
	Fiscal Ye	ar (FY) 2021.						

PROJECT HISTORY:

Amend D2045 MTP, D19-23 TIP, 20-23 STIP to reduce NHPP funds from \$3,954,923 to \$3,531,412, increase SBSI funds by \$292,603 and add \$127,908 of CBIP funds for a total funding of \$18,000,000 in FY

		—			202	1. 					
Total Project Cost	Information:		1					Funding by Categ			
			1			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
			Cat	NM State Funds	State Legisl ative Funds	\$0	\$9,100,000	\$0	\$0	\$0	\$9,100,000
			Cat	Other	SBSI Borde r	\$2,580,091	\$439,679	\$0	\$0	\$0	\$3,019,770
			Cat	NM NHPP	NHPP	\$1,365,273	\$232,659	\$0	\$0	\$0	\$1,597,932
			Cat	NM CMAQ	NM CMA Q Mand atory	\$2,643,753	\$450,527	\$0	\$0	\$0	\$3,094,280
			Cat	NM STPL	NM STP Large Urban	\$858,376	\$146,278	\$0	\$0	\$0	\$1,004,654
Preliminary Engineering:	\$0		Cat	NM STPF	NM	\$774,078	\$131,912	\$0	\$0	\$0	\$905,990
Right Of Way:	\$0	Cost of	į		STP						
Construction:	\$18,971,351	Approved	Cat	NM STLE	Flex NM	\$205,753	\$35,063	\$0	\$0	\$0	\$240,816
Construction Engineering:	\$120,000	Phases:	Cat	INIVI STEE	STPL-	φ203,733	φ33,003	φυ	φυ	φυ	φ240,010
Contingencies:	\$0	\$19,091,351	į		Exem						
Indirects:	\$0				pt						
Bond Financing:	\$0		Cat	Other	CBIP	\$102,327	\$25,582	\$0	\$0	\$0	\$127,909
Potential Change Order:	\$0		1	Fund by	/ Share	\$8,529,651	\$10,561,700	\$0	\$0	\$0	\$19,091,351
Total Project Cost:	\$19,091,351		•								

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018	2021	05/2018	Program D2045 MTP, D19-22 TIP, 18-21 STIP, in FY 2021.
08/2019	2021	07/2019	Amend D2045 MTP, D19-23 TIP, 20-23 STIP to add \$9,181,923 of State legislative funds, add \$3,301,661 to the already existing \$2,800,000 of NHPP for a total of \$6,101,661, add \$16,416 to the already existing \$2,700,000 of SBSI for a total of \$2,716,416, and remove \$3,000,000 of STP-Flex for a total funding of \$18,000,000 in FY 2021.
02/2020	2021	02/2020	Admin Amend D2045 MTP, D19-23 TIP and 20-23 STIP to reduce Contruction cost from \$18,000,000 to \$17,880,000 and increase Construction Engineering by \$120,000 for a Total project cost of \$18,000,000.
03/2020	2021	03/2020	Amend D2045 MTP, D19-23 TIP, 20-23 STIP to add \$3,094,280 of CAT 5 CMAQ, reduce State Legislative funds from \$9,181,923 to

\$6,085,921, reduce NHPP funds from \$6,101,661 to \$3,951,923, add \$1,004,654 of STP-Large Urban, \$240,816 of STP-Large Urban Exempt and \$905,990 of STP-F for a total funding of \$18,000,000 in FY 2021. 07/2020 2021 05/2020 Program in to D2045 MTP, D21-24, TIP, 20-23 STIP, in FY 2021

Amend Destino 2045 MTP and Destino 2019-2023 TIPto reduce National Highway Performance Program (NHPP) funds from 06/2020 2021 05/2020 \$3,951,923 to \$3,531,412, increase Border State Infrastructure (SBSI) funds by \$292,603 and add \$127,908 of Coordinated Border Infrastructure Program (CBIP) funds for a total funding of \$18,000,000 in Fiscal Year (FY) 2021. Admin amend Destino 2045 MTP and Destino 2019-2023 TIP to add \$1 of Coordinated Border Infrastructure Program funds (CBIP), 07/2020 2021 07/2020

add \$10,750 of Border State Infrastructure (SBSI) funds, add \$3,014,079 of State Legislative Funds, and reduce National Highway Performance Program (NHPP) funds to \$1,597,932 for a total funding of \$19,901,351 in Fiscal Year (FY) 2021.

WEDNESDAY, JANUARY 13, 2021 10:45:56 AM

LIMITS TO:

EL PASO MPO 2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS



Fed FY 2021 (Oct - Sept)

MPO PROJECT ID:

MTP REFERENCE:

FUNDING CATEGORY: TAP, 3 LC

M644A

M644A

DISTRICT PROJECT SPONSOR YOE COST COUNTY CSJ/CN HWY **PHASE** CITY NM DIST. 1 DA E100360 Sunland Park Sunland Park \$109,500 **REVISION DATE:** 12/2020

TIP PROJECT NAME: Rio Grande Trail Phase I
LIMITS FROM: Racetrack Drive

1,450-ft west of Sunland Park Drive

TIP DESCRIPTION: 12-ft wide paved multi-purpose levee trail (PE Phase)
REMARKS: Amend D2045 MTP, D 19-23 TIP, 20-23 STIP to prog

Amend D2045 MTP, D 19-23 TIP, 20-23 STIP to program using \$42,619 Transportation Alternatives Program (TAP) funds and \$66,881 Category 3 Local Contribution funds in FY

2021

Total Project Cost	Information:		Authorized Funding by Category/Share									
Preliminary Engineering:	\$109,500					Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share	
Right Of Way:	\$0	Cost of	Cat	9TAP	TAP	\$36,414	\$0	\$0	\$6,205	\$0	\$42,619	
Construction:	\$476,972	Approved	Cat	3LC	Local	\$0	\$0	\$0	\$0	\$66.881	\$66,881	
Construction Engineering	\$10,000	Phases:	Jul	020	Contri	ΨΟ	ΨΟ	Ψ	ΨΟ	Ψ00,001	ψου,ου ι	
Contingencies:	\$73,045	\$109,500	i		bution							
Indirects:	\$0			Fund	by Share	\$36,414	\$0	\$0	\$6,205	\$66,881	\$109,500	
Bond Financing:	\$0											
Potential Change Order:	\$0											
Total Project Cost:	\$669,517											

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

12/2020 2021 11/2020 Amend D2045 MTP, D 19-23 TIP, 20-23 STIP to program using \$42,619 Transportation Alternatives Program (TAP) funds and

\$66,881 Category 3 Local Contribution funds in FY 2021

EL PASO MPO 2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS



Fed FY 2022 (Oct - Sept)

DISTRICT COUNTY CSJ/CN **PHASE** CITY PROJECT SPONSOR YOE COST NM DIST. 1 E100350 NMDOT \$800,000 TIP PROJECT NAME: Booth Road Widening-Operational Improvements **REVISION DATE:** 12/2020 LIMITS FROM: End of route (MP 0) MPO PROJECT ID: M643X MTP REFERENCE: LIMITS TO: Intersection with Binational Way (MP 0.136) M643X

Amend D2045 MTP, D2045 MTP, D 19-23 TIP, D 21-24 TIP, 20-23 STIP to program REMARKS:

using \$800.000 of SBSI in FY 2022

Pavement reconstruction and roadway widening

Total Project Cost	Information:		7			Authorized	Funding by Categ	ory/Share		
Preliminary Engineering:	\$0				Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat NM State	SBSI	\$683,520	\$116.480	\$0	\$0	\$0	\$800,000
Construction:	\$800,000	Approved	Funds		******	, ,,				,
Construction Engineering	: \$0	Phases:	Fund b	y Share	\$683,520	\$116,480	\$0	\$0	\$0	\$800,000
Contingencies:	\$0	\$800,000	;	•						. ,
Indirects:	\$0									
Bond Financing:	\$0									
Potential Change Order:	\$0									
Total Project Cost:	\$800,000	_								
AMENDMENT HISTORY										

TIP DESCRIPTION:

History STIP Rev Date History FY History Date History Note/Amendment

12/2020 2022 10/2020 Amend D2045 MTP, D2045 MTP, D 19-23 TIP, D 21-24 TIP. 20-23 STIP to program using \$800,000 of SBSI in FY 2022 NM DIST. 1 DΑ NM 404 NMDOT C Dona Ana County \$42,773,000 E100203

TIP PROJECT NAME: NM 404 Widening Project REVISION DATE: 09/2020 MPO PROJECT ID: P620X-CAP LIMITS FROM: NM 404: I-10

LIMITS TO MTP REFERENCE: P620X-CAP NM 404: NM 213 Intersection FUNDING CATEGORY: State Legislative Funds, NHPP, STP-Flex,

TIP DESCRIPTION: NM 404 Widening Project: Widen NM 404 from I-10 to NM 213 from 2 lanes to 4 lanes Amend D2045 MTP, D19-23 TIP, 20-23 STIP to increase construction cost from REMARKS:

\$29,340,688 to \$42,773,000 reduce State Legislative funds from \$11,914,079 to \$8,818,077, increase National Highway Performance Program (NHPP) funds from

\$10,481,139 to \$20,836,101, increase Surface Transportation Program (STP) Large Urban funds from \$1,245,470 to \$2,490,940, increase STP Flex funds from \$3,000,000 to \$5,995,050 and increase Border State Infrastructure (SBSI) funds from \$2,700,000 to

\$4,632,832 for a total funding of \$42,773,000 in Fiscal Year (FY) 2022.

*Project Sponsor paying for PE and/or ROW Costs, if any.

PROJECT HISTORY:

Amend D2045 MTP, D19-23 TIP, 20-23 STIP to increase construction cost from \$26,500,000 to \$29,340,688, increase State Legislative funds to \$11,914,079, reduce NHPP to \$10,481,139, add

SBSI, STP-L, STPLE

FUNDING CATEGORY: SBSI

					\$1,0	JU4,654 Of STP-	∟arge ∪rban an	id \$240,816 of STI	L Exempt in F	Y 2022.	
Total Project Cost	Information:		1				Authorized	Funding by Categ	gory/Share		
			į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
			Cat	NM State Funds	State Legisl ative Funds	\$0	\$8,818,077	\$0	\$0	\$0	\$8,818,077
			Cat	NM NHPP	NHPP	\$17,802,364	\$3,033,737	\$0	\$0	\$0	\$20,836,101
			Cat	NM STPF	STP Flex	\$5,122,171	\$872,879	\$0	\$0	\$0	\$5,995,050
			Cat	NM State Funds	SBSI	\$3,958,292	\$674,540	\$0	\$0	\$0	\$4,632,832
Preliminary Engineering:	\$0		Cat	NM STPL	NM	\$1,716,752	\$292,556	\$0	\$0	\$0	\$2,009,308
Right Of Way:	\$273,000	Cost of	į		STP-						
Construction:	\$42,500,000	Approved	İ		Large Urban						
Construction Engineering:	\$0	Phases:	C-4	NM STLE		\$411,506	\$70,126	\$0	\$0	\$0	¢404 622
Contingencies:	\$0	\$42,773,000	42,773,000 Cat N		STPL-	Φ411,500	\$70,120	ΦΟ	ΦΟ	ΦΟ	\$481,632
Indirects:	\$0		ļ		Exem						
Bond Financing:	\$0		!		pt						
Potential Change Order:	\$0		1	Fund by	y Share	\$29,011,085	\$13,761,915	\$0	\$0	\$0	\$42,773,000
Total Project Cost:	\$42,773,000	_	•								

AMENDMENT HISTORY

08/2019

History STIP Rev Date History FY History Date History Note/Amendment

2022

00/2010		0172010	1 10914111 22010 11111 , 210 220 0111 , 1111 1 20221
03/2020	2022	03/2020	Amend D2045 MTP, D19-23 TIP, 20-23 STIP to increase construction cost from \$26,500,000 to \$29,340,688, increase State Legislative funds from \$8,818,077 to \$11,914,079, reduce NHPP from \$11,981,923 to \$10,481,139, add \$1,004,654 of STP-Large Urban and \$240,816 of STP-Large Urban Exempt for a total funding of \$29,340,688 in FY 2022.
07/2020	2022	05/2020	Program in to D2045 MTP, D21-24, TIP, 20-23 STIP, in FY 2022.
09/2020	2022	09/2020	Amend D2045 MTP, D19-23 TIP, 20-23 STIP to increase cost from \$29,340,688 to \$42,773,000 reduce State Legislative funds from \$11,914,079 to \$8,818,077, increase National Highway Performance Program (NHPP) funds from \$10,481,139 to \$20,836,101, increase Surface Transportation Program (STP) Large Urban funds from \$1,245,470 to \$2,490,940, increase STP Flex funds from \$3,000,000 to \$5,995,050 and increase Border State Infrastructure (SBSI) funds from \$2,700,000 to \$4,632,832 for a total funding of \$42,773,000 in Fiscal Year (FY) 2022.

Program D2045 MTP, D19-22 TIP, 20-23 STIP, in FY 2022.

C=Construction, E=Engineering, R=Right-Of-Way (ROW), T=Transfer, YOE=Year Of Expenditure, CSJ:Control Section Job

WEDNESDAY, JANUARY 13, 2021 10:45:57 AM

LIMITS TO:

REMARKS:

EL PASO MPO 2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS



Fed FY 2022 (Oct - Sept)

MPO PROJECT ID:

MTP REFERENCE:

FUNDING CATEGORY: TAP, 3 LC

M644B

M644B

DISTRICT PROJECT SPONSOR YOE COST COUNTY CSJ/CN HWY **PHASE** CITY NM DIST. 1 DA E100360 Sunland Park Sunland Park \$560,017 **REVISION DATE:** 12/2020

TIP PROJECT NAME: Rio Grande Trail Phase II LIMITS FROM: Racetrack Drive

1,450-ft west of Sunland Park Drive TIP DESCRIPTION:

12-ft wide paved multi-purpose levee trail Amend D2045 MTP, D 19-23 TIP, 20-23 STIP to program using \$42,619 Transportation

Alternatives Program (TAP) funds and \$517,398 Category 3 Local Contribution funds in FY

2022.

Total Project Cost	Information:						Authorized	Funding by Categ	ory/Share		
Preliminary Engineering:	\$109,500		į			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat	9TAP	TAP	\$36,414	\$0	\$0	\$6,205	\$0	\$42,619
Construction:	\$476,972	Approved		3LC	Local	\$0	\$0	\$0	\$0	\$517.398	\$517,398
Construction Engineering:	\$10,000	Phases:	Jul	OLO	Contri	Ψ	ΨΟ	Ψ	Ψ	ΨΟ17,000	ψο 17,000
Contingencies:	\$73,045	\$560,017	- 1		bution						
Indirects:	\$0			Fund by Share		\$36,414	\$0	\$0	\$6,205	\$517,398	\$560,017
Bond Financing:	\$0				-						
Potential Change Order:	\$0										
Total Project Cost:	\$669,517										

History STIP Rev Date History FY History Date History Note/Amendment

2022 Amend D2045 MTP, D 19-23 TIP, 20-23 STIP to program using \$42,619 Transportation Alternatives Program (TAP) funds and 12/2020 11/2020

\$517,398 Category 3 Local Contribution funds in FY 2022.

WEDNESDAY, JANUARY 13, 2021 10:45:57 AM

LIMITS TO:

EL PASO MPO 2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM EL PASO TX NMDOT DISTRICT 1 PROJECTS

TIP PAGE: 5 Metropolitan Planning Organization

Fed FY 2023 (Oct - Sept)

YOE COST DISTRICT COUNTY CSJ/CN HWY PROJECT SPONSOR **PHASE** CITY NM DIST. 1 E100321 NM 213 Dona Ana County NMDOT \$9,000,000 REVISION DATE: 07/2020

TIP PROJECT NAME: NM 213 Widening Project LIMITS FROM: Intersection with NM 404 (MP 0)

MPO PROJECT ID: P621X-CAP MTP REFERENCE: P621X-CAP

TX State Line (MP 3) TIP DESCRIPTION: Widen NM 213 from 2 to 4 lanes

FUNDING CATEGORY: NHPP, SBSI

REMARKS: Program in to D2045 MTP, D21-24, TIP, 20-23 STIP, in FY 2023

PROJECT HISTORY:

					Pro	ogram D2045 MT	P, D19-22 TIP,	20-23 STIP, in FY	2023		
Total Project Cost	Information:		1				Authorized	Funding by Categ	ory/Share		
Preliminary Engineering:	\$0		İ			Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share
Right Of Way:	\$0	Cost of	Cat N	NM NHPP	NHPP	\$5,368,694	\$914,890	\$0	\$0	\$0	\$6,283,584
Construction:	\$9,000,000	Approved	Cat N	NM State	SBSI	\$2.320.906	\$395.510	\$0	\$0	\$0	\$2,716,416
Construction Engineering:	\$0	Phases:		Funds		+ =,===,===	7000,000	, ,	**	**	 ,,
Contingencies:	\$0	\$9,000,000	!	Fund by	v Share	\$7,689,600	\$1,310,400	\$0	\$0	\$0	\$9,000,000
Indirects:	\$0		:			, ,,	, ,, ,,	•	• •	•	**,***
Bond Financing:	\$0										
Potential Change Order:	\$0										
Total Project Cost:	\$9,000,000										

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

08/2019	2023	07/2019	Program D2045 MTP, D19-22 TIP, 20-23 STIP, in FY 2023
07/2020	2023	05/2020	Program in to D2045 MTP, D21-24, TIP, 20-23 STIP, in FY 2023

Transit Projects FTA & Other Funds	

Transit projects are included in this TIP. This public notice and time established for public review and

comments satisfies FTA Program of Projects (POP) and public participation requirements.

TX DIST. 24 YOE = Year of Expenditure

District General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K MPO ID: ТЗН OtherFTASection: Project Name: ADA ParaTransit Federal (FTA) Funds: \$1,352,786 Apportionment Year: 2021 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$338,196 Brief Project Description: Provide ADA Para Transit Service Fiscal Year Cost: \$1,690,982 ROW: \$0 Construction: \$1,690,982 PE: \$0 Sec5309 ID: **Total Project Cost:** \$1,690,982 Amend Date: 07/2020 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY TDC Amount Requested: \$0 2021-Exempt TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K MPO ID: T3C OtherFTASection: Federal (FTA) Funds: \$11,125,064 Project Name: Capital Maintenance Apportionment Year: 2021 State (TXDOT) Funds: Project Phase: N/A Other Funds: \$2,781,266 Brief Project Description: Capital Maintenance Fiscal Year Cost: \$13,906,330 Construction: \$13,906,330 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$13,906,330 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt TDC Awarded Date & Amount: \$0 AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information Funding Information (YOE) FPMPO Sec. 5310 - Seniors & People w/Disabilities >200K Fed. Fundig Category: Project Sponsor: MPO ID: T011 OtherFTASection: FTA 5310 Enhanced Mobility for Seniors and Individuals with Disabilities Federal (FTA) Funds: \$650,000 Project Name: Apportionment Year: 2021 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$0 Brief Project Description: FTA 5310 Enhanced Mobility for Seniors and Individuals with Disabilities Fiscal Year Cost: \$650,000 Program. Project for financial allocation demonstration. Fed. Distribution Construction: \$650,000 PF: \$0 ROW: \$0 of \$650,000 for Capital and Operating, for FFY 2020 funds for use in FY Sec5309 ID: **Total Project Cost:** \$650,000 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt TDC Awarded Date & Amount: AMENDMENT HISTORY History STIP Rev Date History FY History Date History Note/Amendment 07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021, 07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt **General Project Information Funding Information (YOE)** Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: OtherFTASection: T3I-8 Project Name: FY 2021 FTA 5339 Funding for Bus & Bus Facilities Federal (FTA) Funds: \$1,120,000 Apportionment Year: 2021 State (TXDOT) Funds: \$0 Proiect Phase: N/A Other Funds: \$280.000 Brief Project Description: FY 2021 FTA 5339 Funding: For the purchase of buses and facility \$1,400,000 Fiscal Year Cost: enhancements incl. equipment such a ADP hardware/software and ROW: \$0 Construction: \$1,400,000 PF: \$0 security related needs, ticket vending machines and sales related software. Capitalized maintenance incl rebuilds, bus shelters &

Sec5309 ID:

Amend Date: 07/2020 Total Project Cost: \$1,400,000

Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY

TDC Amount Requested: \$0

2021-Exempt

UZ1-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

amenities

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

strict: TX DIST, 24 YOE = Year of Expenditure

General Project Information		Funding Information (YOE)				
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5307 - Urbanized Formula >200K			
MPO ID:	T2A	OtherFTASection:				
Project Name:	JARC	Federal (FTA) Funds:	\$160,000			
Apportionment Year:	2021	State (TXDOT) Funds:	\$0			
Project Phase:	N/A	Other Funds:	\$40,000			
Brief Project Description	Short-range Planning	Fiscal Year Cost:	\$200,000			
05000 ID:		Construction: \$200,000 PE: \$	60 ROW: \$0			
Sec5309 ID: Amend Date:	07/2020	Total Project Cost:	\$200,000			
Remarks/Amend Action:	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0			
	2021-Exempt	TDC Awarded Date & Amount:	\$0			

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

General Pro	ect Information	<u>Funding Informat</u>	tion (YOE)
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5339 - Bus & Bus Facilities >200h
MPO ID:	T3B	OtherFTASection:	
Project Name:	Other Capital Program Items (5339)	Federal (FTA) Funds:	\$80,000
Apportionment Year:	2021	State (TXDOT) Funds:	\$0
Project Phase:	N/A	Other Funds:	\$20,000
Brief Project Description	: Computer hardware/software	Fiscal Year Cost:	\$100,000
Sec5309 ID:		Construction: \$100,000	PE: \$0 ROW: \$0
Amend Date:	07/2020	Total Project Cost:	\$100,000
Remarks/Amend Action:	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0
	2021-Exempt	TDC Awarded Date & Amount:	\$0

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

District: TX DIST. 24 YOE = Year of Expenditure

DISTRICT. 1X DIST. 24			TOE = Teal of Expericiture
General Proj	ect Information	Funding Information (YOE	<u>=</u>)
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5307 - Urbanized Formula >200K
MPO ID:	T3A	OtherFTASection:	
Project Name:	Planning	Federal (FTA) Funds:	\$832,402
Apportionment Year:	2021	State (TXDOT) Funds:	\$0
Project Phase:	N/A	Other Funds:	\$208,100
Brief Project Description:	Short-range Planning	Fiscal Year Cost:	\$1,040,502
Sec5309 ID:		Construction: \$1,040,502 PE: \$0	ROW: \$0
Amend Date:	07/2020	Total Project Cost:	\$1,040,502
Remarks/Amend Action:	***=*=*	TDC Amount Requested:	\$0
	2021-Exempt	TDC Awarded Date & Amount:	\$0
07/2018	2021 05/2018 Program D2045 MTP, D19-22 TIP, 1	19-22 STIP, in FY 2021.	

General Project Information		Funding Information (YOE)			
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5307 - Urbanized Formula >200K		
MPO ID:	T3E	OtherFTASection:			
Project Name:	Security Equipment	Federal (FTA) Funds:	\$139,760		
Apportionment Year:	2021	State (TXDOT) Funds:	\$0		
Project Phase:	N/A	Other Funds:	\$34,940		
Brief Project Description	: Security Program	Fiscal Year Cost:	\$174,700		
05200 ID:		Construction: \$174,700 PE: \$0	ROW: \$0		
Sec5309 ID: Amend Date:	07/2020	Total Project Cost:	\$174,700		
Remarks/Amend Action	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0		
	2021-Exempt	TDC Awarded Date & Amount:	\$0		

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

AMENDMENT HISTORY

07/2020

07/2020

2021

05/2020

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

07/2020 2021 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

ect Information	<u>Funding Information (YOE)</u>	
Sun Metro	Fed. Fundig Category:	ec. 5339 - Bus & Bus Facilities >200K
T3F	OtherFTASection:	
Support Vehicles/Bus Rehab (5339)	Federal (FTA) Funds:	\$429,287
2021	State (TXDOT) Funds:	\$0
N/A	Other Funds:	\$107,322
Support Vehicles/Bus Rehab	Fiscal Year Cost:	\$536,609
07/2020	Construction: \$536,609 PE: \$0 Total Project Cost:	ROW: \$0 \$536,609
Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0
2021-Exempt	TDC Awarded Date & Amount:	\$0
e History FY History Date History Note/Amendment		
2021 05/2018 Program D2045 MTP, D19-22 TIP, 1	19-22 STIP, in FY 2021.	
	Sun Metro T3F Support Vehicles/Bus Rehab (5339) 2021 N/A Support Vehicles/Bus Rehab 07/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt e History FY History Date History Note/Amendment	Sun Metro T3F OtherFTASection: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: Support Vehicles/Bus Rehab (5339) State (TXDOT) Funds: N/A Other Funds: Support Vehicles/Bus Rehab Fiscal Year Cost: Construction: \$536,609 PE: \$0 Total Project Cost: Total Project Cost: TDC Amount Requested: TDC Awarded Date & Amount: Fistory FY History Date History Note/Amendment

05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

2021

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information Funding Information (YOE) Sun Metro Sec. 5339 - Bus & Bus Facilities >200K Project Sponsor: Fed. Fundig Category: MPO ID: T3G OtherFTASection: Project Name: Transit Enhancements (5339) Federal (FTA) Funds: \$800,000 2021 State (TXDOT) Funds: Apportionment Year: \$0 Other Funds: Project Phase: N/A \$200,000 Brief Project Description: Transit Enhancements Fiscal Year Cost: \$1,000,000 ROW: \$0 Construction: \$1,000,000 PE: \$0 Sec5309 ID: **Total Project Cost:** \$1,000,000 Amend Date: 07/2020 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY TDC Amount Requested: \$0 2021-Exempt TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2021 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt 07/2020 2021 05/2020

TX DIST 24 YOE = Year of Expenditure

District **General Project Information Funding Information (YOE)** Sun Metro Fed. Fundig Category: Project Sponsor: Sec. 5307 - Urbanized Formula >200K MPO ID: **T3H** OtherFTASection: ADA ParaTransit Project Name: Federal (FTA) Funds: \$1.366.313 Apportionment Year: 2022 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$341 578 Brief Project Description: Provide ADA Para Transit Service Fiscal Year Cost: \$1,707,891 ROW: \$0 Construction: \$1,707,891 PF: \$0 Sec5309 ID: **Total Project Cost:** \$1,707,891 Amend Date: 07/2020 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY TDC Amount Requested: \$0 2022-Exempt TDC Awarded Date & Amount: AMENDMENT HISTORY History STIP Rev Date History FY History Date History Note/Amendment 07/2018 2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.

07/2020 2022 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt **General Project Information Funding Information (YOE)** Sun Metro Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K Project Sponsor: MPO ID: T3C OtherFTASection: Project Name: Capital Maintenance Federal (FTA) Funds: \$11,236,314 2022 State (TXDOT) Funds: Apportionment Year: Project Phase: N/A Other Funds:

\$0 \$2.809.079 Brief Project Description: Capital Maintenance \$14,045,393 Fiscal Year Cost:

Construction: \$14,045,393 PE: \$0 ROW: \$0 Sec5309 ID:

Total Project Cost: \$14,045,393 Amend Date: 07/2020

TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt

TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt 07/2020 2022 05/2020

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: OtherFTASection: Project Name: Federal (FTA) Funds: Curb Cuts ADA Improvements (5339) \$800,000 State (TXDOT) Funds: Apportionment Year: 2022 \$0 Project Phase: N/A Other Funds: \$200,000 Brief Project Description: Curb Cuts ADA Improvements \$1,000,000 **Fiscal Year Cost:** Construction: \$1.000.000 PE: \$0 ROW: \$0

Sec5309 ID:

Total Project Cost: \$1,000,000 Amend Date: 07/2020

TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY

2022-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2020.

07/2020 2022 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt

District: TX DIST. 24			YOE = Year of Expenditure
General Proje	ect Information	Funding Inform	ation (YOE)
Project Sponsor:	EPMPO	Fed. Fundig Category:	Sec. 5310 - Seniors & People w/Disabilities >200K
MPO ID:	T011	OtherFTASection:	
Project Name:	FTA 5310 Enhanced Mobility for Seniors and Individuals with Disabilities	Federal (FTA) Funds:	\$650,000
Apportionment Year:	2022	State (TXDOT) Funds:	\$0
Project Phase: N/A		Other Funds:	\$0
Brief Project Description: FTA 5310 Enhanced Mobility for Seniors and Individuals with Disabilities		Fiscal Year Cost:	\$650,000
	Program. Project for financial allocation demonstration. Fed. Distribution of \$650,000 for Capital and Operating, for FFY 2021 funds for use in FY 2022.		PE: \$0 ROW: \$0
Sec5309 ID:			****
Amend Date:	07/2020	Total Project Cost:	\$650,000
Remarks/Amend Action:	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0
	2022-Exempt	TDC Awarded Date & Amount:	\$0
AMENDMENT HISTORY History STIP Rev Dat	e History FY History Date History Note/Amendment		
07/2018	2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 ST	TP. in FY 2022.	
07/2020	2022 05/2020 Program into D2045 MTP, D21-24 TIP and	,	
General Proje	ect Information	Funding Inform	ation (YOE)
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5339 - Bus & Bus Facilities >200K
MPO ID:	T3I-9	OtherFTASection:	
Project Name:	FY 2022 FTA 5339 Funding	Federal (FTA) Funds:	\$1,148,000
Apportionment Year:	2022	State (TXDOT) Funds:	\$0
Project Phase:	N/A	Other Funds:	\$287,000
Brief Project Description:	FY 2022 FTA 5339 Funding: For the purchase of buses and facility	Fiscal Year Cost:	\$1,435,000
	enhancements incl. equipment such a ADP hardware/software and security related needs, ticket vending machines and sales related software. Capitalized maintenance incl rebuilds, bus shelters & amenities.	Construction: \$1,435,000	PE: \$0 ROW: \$0

Sec5309 ID:

Total Project Cost: \$1,435,000 Amend Date: 07/2020

TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY

2022-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.

07/2020 2022 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt

District: TX DIST. 24							YOE = Year o	of Expenditure
General Proj	ect Information				Funding Infor	mation (YO	<u>E)</u>	
Project Sponsor:	Sun Metro			Fed. Fundig Ca	ategory:		Sec. 5339 - Bus & Bus Fac	ilities >200K
MPO ID:	Т3В			OtherFTASecti	ion:			
Project Name:	Other Capital P	rogram Items	s (5339)	Federal (FTA)	Funds:			\$84,000
Apportionment Year:	2022			State (TXDOT)	Funds:			\$0
Project Phase:	N/A			Other Funds:				\$21,000
Brief Project Description:	Computer hard	ware/software	e	Fiscal Ye	ear Cost:			\$105,000
O - 5000 ID				Construction:	\$105,000	PE: \$0	ROW: \$0	
Sec5309 ID:				Total Proje	ect Cost:			\$105,000
Amend Date:	07/2020							4.00,000
Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP 2022-Exempt				TDC Amount F	Requested:			\$0
			TDC Awarded Date & Amount:		\$0			
AMENDMENT HISTORY	,							
History STIP Rev Date	te History FY I	History Date	History Note/Amendment					
07/2018	2022	05/2018	Program D2045 MTP, D19-22 TIP,	19-22 STIP, in FY 2022.				
07/2020	2022	05/2020	Program into D2045 MTP, D21-24	TIP and 21-24 STIP in F	Y 2022-Exemp	t		

General Pro	ject Information	Funding Information (YO	<u>E)</u>
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5307 - Urbanized Formula >200K
MPO ID:	T3A	OtherFTASection:	
Project Name:	Planning	Federal (FTA) Funds:	\$840,726
Apportionment Year:	2022	State (TXDOT) Funds:	\$0
Project Phase:	N/A	Other Funds:	\$210,181
Brief Project Description	: Short-range Planning	Fiscal Year Cost:	\$1,050,907
Sec5309 ID:		Construction: \$1,050,907 PE: \$0 Total Project Cost:	ROW: \$0 \$1,050,907
Amend Date:	07/2020	TDC Amount Requested:	* 0
Remarks/Amend Action	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt	TDC Amount Requested. TDC Awarded Date & Amount:	\$0 \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.

07/2020 2022 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt

<u>General Proje</u>	ect Information	Funding Information (YOE)			
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5307 - Urbanized Formula >200K		
MPO ID:	T3E	OtherFTASection:			
Project Name:	Security Equipment	Federal (FTA) Funds:	\$143,254		
Apportionment Year:	2022	State (TXDOT) Funds:	\$0		
Project Phase:	N/A	Other Funds:	\$35,814		
Brief Project Description:	Security Program	Fiscal Year Cost:	\$179,068		
Sec5309 ID:		Construction: \$179,068 PE: \$0	O ROW: \$0		
Amend Date:	07/2020	Total Project Cost:	\$179,068		
		TDC Amount Requested:	\$0		
	2022-Exempt	TDC Awarded Date & Amount:	\$0		

History STIP Rev Date History FY History Date History Note/Amendment

05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022. 07/2018 2022

07/2020 2022 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt

District: TX DIST, 24 YOE = Year of Expenditure

District: TX DIST. 24			YOE = Year of Expenditure			
<u>General Proj</u>	ect Information	Funding Information (YOE)				
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5339 - Bus & Bus Facilities >200K			
MPO ID:	T3F	OtherFTASection:				
Project Name:	Support Vehicles/Bus Rehab (5339)	Federal (FTA) Funds:	\$443,120			
Apportionment Year:	2022	State (TXDOT) Funds:	\$0			
Project Phase:	N/A	Other Funds:				
Brief Project Description:	Support Vehicles/Bus Rehab	Fiscal Year Cost:	\$553,900			
Sec5309 ID:		Construction: \$553,900 PE: \$0	ROW: \$0			
Amend Date:	07/2020	Total Project Cost:	\$553,900			
Remarks/Amend Action:	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0			
	2022-Exempt	TDC Awarded Date & Amount:	\$0			

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018 2022 05/2018 Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.

07/2020 2022 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information Funding Information (YOE) Sun Metro Fed. Fundig Category: Project Sponsor: Sec. 5307 - Urbanized Formula >200K MPO ID: **T3H** OtherFTASection: ADA ParaTransit Project Name: Federal (FTA) Funds: \$1.379.976 Apportionment Year: 2023 State (TXDOT) Funds: \$0 Project Phase: т Other Funds: \$344 994 Brief Project Description: Provide ADA Para Transit Service Fiscal Year Cost: \$1,724,970 ROW: \$0 Construction: \$1,724,970 PF: \$0 Sec5309 ID: **Total Project Cost:** \$1,724,970 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K MPO ID: OtherFTASection: T3C Project Name: Capital Maintenance Federal (FTA) Funds: \$11,188,678 Apportionment Year: 2023 State (TXDOT) Funds: \$0 Other Funds: Project Phase: \$2,797,169 Brief Project Description: Capital Maintenance Fiscal Year Cost: \$13,985,847 Construction: \$13.985.847 ROW: \$0 PF: \$0 Sec5309 ID: **Total Project Cost:** \$13,985,847 07/2020 Amend Date: TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP. D21-24 TIP and 21-24 STIP in FY 2023-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: OtherFTASection: T3I-10 Project Name: FY 2023 FTA 5339 Funding for Bus & Bus Facilities Federal (FTA) Funds: \$1,176,700 Apportionment Year: State (TXDOT) Funds: 2023 \$0 Project Phase: Other Funds: N/A \$294,175 Brief Project Description: FY 2023 FTA 5339 Funding: For the purchase of buses and facility Fiscal Year Cost: \$1,470,875 enhancements incl. equipment such a ADP hardware/software and Construction: \$1.470.875 ROW: \$0 PF: \$0 security related needs, ticket vending machines and sales related software. Capitalized maintenance incl rebuilds, bus shelters & amenities Sec5309 ID: **Total Project Cost:** \$1,470,875 Amend Date: 07/2020

Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY

TDC Amount Requested:

\$0

2023-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

District: TX DIST. 24 YOE = Year of Expenditure

General Pro	pject Information	Funding Information (Y	DE)
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Sec. 5307 - Urbanized Formula >200K
MPO ID:	T2A	OtherFTASection:	
Project Name:	JARC	Federal (FTA) Funds:	\$160,000
Apportionment Year:	2023	State (TXDOT) Funds:	\$0
Project Phase:	N/A	Other Funds:	\$40,000
Brief Project Description: Short-range Planning		Fiscal Year Cost:	\$200,000
0F000 ID:		Construction: \$200,000 PE: \$0	ROW: \$0
Sec5309 ID: Amend Date:	07/2020	Total Project Cost:	\$200,000
Remarks/Amend Action:	n: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0
	2023-Exempt	TDC Awarded Date & Amount:	\$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

General Pro	ect Information	<u>Funding In</u>	formation (YO	<u>E)</u>
Project Sponsor:	Sun Metro	Fed. Fundig Category:		Sec. 5339 - Bus & Bus Facilities >200K
MPO ID:	ТЗВ	OtherFTASection:		
Project Name:	Other Capital Program Items (5339)	Federal (FTA) Funds:		\$88,200
Apportionment Year:	2023	State (TXDOT) Funds:		\$0
Project Phase:	N/A	\$22,050		
Brief Project Description	: Computer hardware/software	Fiscal Year Cost:		\$110,250
0F200 ID:		Construction: \$110,250	PE: \$0	ROW: \$0
Sec5309 ID: Amend Date:	07/2020	Total Project Cost:	\$110,250	
Remarks/Amend Action:	Program D2045 MTP, 21-24 TIP, 21-24 STIP, in FY 2023.	TDC Amount Requested:		\$0
		TDC Awarded Date & Am	ount:	\$0

History STIP Rev Date History FY History Date History Note/Amendment

2023 05/2020 Program D2045 MTP, 21-24 TIP, 21-24 STIP, in FY 2023. 07/2020

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information Funding Information (YOE) Sun Metro Fed. Fundig Category: Project Sponsor: Sec. 5307 - Urbanized Formula >200K MPO ID: ТЗА OtherFTASection: Project Name: Planning Federal (FTA) Funds: \$849.133 Apportionment Year: 2023 State (TXDOT) Funds: \$0 Project Phase: Other Funds: \$212 283 N/A Brief Project Description: Short-range Planning Fiscal Year Cost: \$1,061,416 ROW: \$0 Construction: \$1,061,416 PF: \$0 Sec5309 ID: **Total Project Cost:** \$1,061,416 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K MPO ID: OtherFTASection: T3E Project Name: Federal (FTA) Funds: \$146,835 Security Equipment Apportionment Year: 2023 State (TXDOT) Funds: \$0 Other Funds: Project Phase: N/A \$36,709 Brief Project Description: Security Program **Fiscal Year Cost:** \$183,544 Construction: \$183 544 PF: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$183,544 07/2020 Amend Date: TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP. D21-24 TIP and 21-24 STIP in FY 2023-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Fed. Fundig Category: Sun Metro Sec. 5339 - Bus & Bus Facilities >200K MPO ID: OtherFTASection: T3F Project Name: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: \$447,551 Apportionment Year: State (TXDOT) Funds: 2023 \$0 Project Phase: N/A Other Funds: \$111.888 Brief Project Description: Support Vehicles/Bus Rehab Fiscal Year Cost: \$559,439 Construction: \$559.439 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$559,439 Amend Date: 07/2020 TDC Amount Requested: Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY \$0 2023-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2023 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K MPO ID: OtherFTASection: T3G Federal (FTA) Funds: \$800,000 Project Name: Transit Enhancements (5339) Apportionment Year: 2023 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds \$200,000 Brief Project Description: Transit Enhancements Fiscal Year Cost: \$1,000,000 Construction: \$1,000,000 PF: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$1,000,000 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program D2045 MTP, 21-24 TIP,21-24 STIP, in FY 2023. TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2020 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt

District: TX DIST. 24 YOE = Year of Expenditure

Funding Information (YOE) **General Project Information** Fed. Fundig Category: Project Sponsor: Sun Metro Sec. 5307 - Urbanized Formula >200K MPO ID: **T3H** OtherFTASection: ADA ParaTransit Project Name: Federal (FTA) Funds: \$1.393.776 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: т Other Funds: \$348 444 Brief Project Description: Provide ADA Para Transit Service Fiscal Year Cost: \$1,742,220 ROW: \$0 Construction: \$1,742,220 PF: \$0 Sec5309 ID: **Total Project Cost:** \$1,742,220 Amend Date: 07/2020 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY TDC Amount Requested: \$0

TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

2024-Exempt

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

General Project Information Funding Information (YOE) Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K Project Sponsor: Sun Metro MPO ID: OtherFTASection: T3C Project Name: Capital Maintenance Federal (FTA) Funds: \$11,461,041 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Other Funds: Project Phase: \$2,865,260 Brief Project Description: Capital Maintenance **Fiscal Year Cost:** \$14,326,301 Construction: \$14.326.301 PF: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$14,326,301 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP. D21-24 TIP and 21-24 STIP in FY 2024-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: OtherFTASection: T3D Project Name: Curb Cuts ADA Improvements (5339) Federal (FTA) Funds: \$800,000 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: Т Other Funds: \$200,000 Brief Project Description: Curb Cuts ADA Improvements Fiscal Year Cost: \$1,000,000 Construction: \$1.000.000 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$1,000,000 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY

2024-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

District: TX DIST. 24 YOE = Year of Expenditure

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: T3I-11 OtherFTASection: Project Name: FY 2024 FTA 5339 Funding for Bus & Bus Facilities Federal (FTA) Funds: \$1,206,118 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: Other Funds: \$301,529 N/A Brief Project Description: FY 2024 FTA 5339 Funding: For the purchase of buses and facility Fiscal Year Cost: \$1,507,647 enhancements incl. equipment such a ADP hardware/software and ROW: \$0 Construction: \$1,507,647 PE: \$0 security related needs, ticket vending machines and sales related software. Capitalized maintenance incl rebuilds, bus shelters & amenities. Sec5309 ID: **Total Project Cost:** \$1,507,647 Amend Date: 07/2020 TDC Amount Requested: Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

General Project Information Funding Information (YOE) Project Sponsor: Sec. 5339 - Bus & Bus Facilities >200K Sun Metro Fed. Fundig Category: MPO ID: **T3B** OtherFTASection: Other Capital Program Items (5339) Federal (FTA) Funds: \$92,610 Project Name: Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$23,153 Brief Project Description: Computer hardware/software **Fiscal Year Cost:** \$115,763 Construction: \$115,763 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$115,763 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

TX DIST. 24 YOE = Year of Expenditure District

Funding Information (YOE) **General Project Information** Fed. Fundig Category: Project Sponsor: Sun Metro Sec. 5307 - Urbanized Formula >200K MPO ID: ТЗА OtherFTASection: Project Name: Planning Federal (FTA) Funds: \$857.624 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$214 406 Brief Project Description: Short-range Planning Fiscal Year Cost: \$1,072,030 Construction: \$1,072,030 PF: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$1,072,030 Amend Date: 07/2020 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY TDC Amount Requested: \$0 2024-Exempt TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

General Project Information Funding Information (YOE) Fed. Fundig Category: Sec. 5307 - Urbanized Formula >200K Project Sponsor: Sun Metro MPO ID: OtherFTASection: T3E Project Name: Security Equipment Federal (FTA) Funds: \$150,506 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Other Funds: Project Phase: \$37 627 N/A Brief Project Description: Security Program **Fiscal Year Cost:** \$188,133 Construction: \$188.133 PF: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$188,133 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP. D21-24 TIP and 21-24 STIP in FY 2024-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt 07/2020 2024 05/2020

General Project Information Funding Information (YOE) Project Sponsor: Sun Metro Fed. Fundig Category: Sec. 5339 - Bus & Bus Facilities >200K MPO ID: OtherFTASection: T3F Project Name: Support Vehicles/Bus Rehab (5339) Federal (FTA) Funds: \$452,026 Apportionment Year: 2024 State (TXDOT) Funds: \$0 Project Phase: N/A Other Funds: \$113.007 Brief Project Description: Support Vehicles/Bus Rehab Fiscal Year Cost: \$565,033 Construction: \$565.033 PE: \$0 ROW: \$0 Sec5309 ID: **Total Project Cost:** \$565,033 Amend Date: 07/2020 TDC Amount Requested: \$0 Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

TDC Awarded Date & Amount:

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt \$0

FTA from FHWA Transfer Transit Project
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YOE = Year of Expenditure

General Pro	ect Information	Funding Info	ormation (YOE)
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Regionally Significant or Other (incl FHWA transfers)
MPO ID:	T096X	OtherFTASection:	FHWA CAT 5 - CMAQ Transfer to FTA
Project Name:	Alameda RTS 3rd year Operating Assistance	Federal (FTA) Funds:	\$911,887
Apportionment Year:	2021	State (TXDOT) Funds:	\$0
Project Phase:	Т	Other Funds:	\$1,376,655
Brief Project Description	: Alameda RTS 3rd year Operating Assistance: 3rd year of Alameda RTS	Fiscal Year Cost:	\$2,288,542
Sec5309 ID: Amend Date:	operations 07/2020	Construction: \$2,288,542 Total Project Cost:	PE: \$0 ROW: \$0 \$2,288,542
Remarks/Amend Action:		TDC Amount Requested: TDC Awarded Date & Amou	\$0 unt: \$0

07/2018	2021	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.
07/2020	2021	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2021-Exempt

General Project Information					Funding Information (YOE)				
Project Sponsor:	Sun Metro				Fed. Fundig Category:	Regionally Sig	nificant or Other (incl FH	WA transfers	
MPO ID:	T095X				OtherFTASection:		FHWA CAT 5 - CMAQ T	ransfer to FTA	
Project Name:	Dyer RTS 3rd	year Operating	g Assistance		Federal (FTA) Funds:			\$911,887	
Apportionment Year:	2021				State (TXDOT) Funds:			\$0	
Project Phase:	T				Other Funds:			\$626,142	
Brief Project Description:	n: Dyer RTS 3rd year Operating Assistance: 3rd year of Dyer RTS				Fiscal Year Cost:			\$1,538,029	
Sec5309 ID:	operations.				Construction: \$1,538,02	9 PE: \$0	ROW: \$0	¢4 500 000	
Amend Date:	07/2020				Total Project Cost:			\$1,538,029	
Remarks/Amend Action:	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY		STIP in FY	TDC Amount Requested:			\$0		
	2021-Exempt				TDC Awarded Date & Amo	ount:	\$0		
AMENDMENT HISTORY									
History STIP Rev Dat	e History FY	History Date	History Note/Amendr	nent					
07/2018	2021	05/2018	Program D2045 MTP,	D19-22 TIP, 19-22	STIP, in FY 2021.				
07/2020	2021	05/2020	Program into D2045 N	MTP, D21-24 TIP a	nd 21-24 STIP in FY 2021-Exe	mpt			





<u>General Proje</u>	ect Information	<u>Funding Inf</u>	ormation (YOE)
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Regionally Significant or Other (incl FHWA transfers)
MPO ID:	T092X	OtherFTASection:	FHWA CAT 5 - CMAQ Transfer to FTA
Project Name:	Montana RTS 1st year Operating Assistance	Federal (FTA) Funds:	\$1,534,074
Apportionment Year:	2022	State (TXDOT) Funds:	\$0
Project Phase:	Т	Other Funds:	\$383,518
Brief Project Description:	Montana RTS 1st year Operating Assistance: 1st year of Montana RTS	Fiscal Year Cost:	\$1,917,592
200E200 ID:	operations.	Construction: \$1,917,59	2 PE: \$0 ROW: \$0
Sec5309 ID: Amend Date:	07/2020	Total Project Cost:	\$1,917,592
Remarks/Amend Action:	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY	TDC Amount Requested:	\$0
	2022-Exempt	TDC Awarded Date & Amo	ount: \$0

	NIT LUIC	STORY

History CTID Day Date	History FV	History Data	History Note/Amendment	

07/2018	2021	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2021.
11/2019	2021	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description to 1st year.
07/2020	2021	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2022-Exempt



\$0



FY 2023 TRANSIT PROJECT DESCRIPTIONS EL PASO MPO TRANSPORTATION IMPROVEMENT PROGRAM (TIP) 2021-2024

YOE = Year of Expenditure

General Project Information Funding Information (YOE) Regionally Significant or Other (incl FHWA transfers) Project Sponsor: Sun Metro Fed. Fundig Category: MPO ID: T097X OtherFTASection: FHWA CAT 5 - CMAQ Transfer to FTA Project Name: Montana RTS 2nd year Operating Assistance Federal (FTA) Funds: \$1,040,000 2023 State (TXDOT) Funds: Apportionment Year: \$0 Other Funds: Project Phase: Т \$260,000 Brief Project Description: Montana RTS 2nd year Operating Assistance: 2nd year of Montana RTS Fiscal Year Cost: \$1,300,000 ROW: \$0 Construction: \$1,300,000 PE: \$0 Sec5309 ID: **Total Project Cost:** \$1,300,000 Amend Date: 07/2020

Remarks/Amend Action: Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY

TDC Amount Requested:

2023-Exempt TDC Awarded Date & Amount: \$0

AMENDMENT HISTORY

History STIP Rev Date History FY History Date History Note/Amendment

07/2018	2022	05/2018	Program D2045 MTP, D19-22 TIP, 19-22 STIP, in FY 2022.
11/2019	2022	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-22 STIP to update project name and description to 2nd year.
07/2020	2022	05/2020	Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2023-Exempt





YOF = Year of Expenditure

District: TX DIST. 24								of Expenditure
<u>General Proje</u>	ect Information			Funding Information (YOE)				
Project Sponsor:	Sun Metro			Fed. Fundig Cat	tegory:	Regionally Sig	nificant or Other (incl FH	WA transfers)
MPO ID:	T093X			OtherFTASectio	n:		FHWA CAT 5 - CMAQ Tr	ansfer to FTA
Project Name:	Montana RTS 3rd	d year servi	ce operating assistance	Federal (FTA) F	unds:			\$1,600,000
Apportionment Year:	2024			State (TXDOT) I	Funds:			\$0
Project Phase:	Т			Other Funds:				\$2,823,490
Brief Project Description:	Montana RTS 3rd	d year servi	ce operating assistance: 3rd year of	Fiscal Yea	ar Cost:			\$4,423,490
	Montana BRT-RT	ΓS operatio	ns.	Construction:	\$4,423,490	PE: \$0	ROW: \$0	
Sec5309 ID:	1539			Total Project		**	***	\$4,423,490
Amend Date:	07/2020			rotal Projec	ol Cost.			\$4,423,4 9 0
Remarks/Amend Action:	Program into D2	045 MTP, I	021-24 TIP and 21-24 STIP in FY	TDC Amount Re	equested:			\$0
	2024-Exempt			TDC Awarded D	ate & Amou	ınt:	\$0	
AMENDMENT HISTORY								
History STIP Rev Date	e History FY His	story Date	History Note/Amendment					
11/2016	2020	10/2016	Amend H2040 MTP, H17-20 TIP, 17-20 S	STIP to program in F	Y 2020 EXE	MPT		
07/2018	2020	05/2018	Program D2045 MTP, D19-22 TIP, 19-22	2 STIP, in FY 2020.				
11/2019	2020	10/2019	Amend the D2045 MTP, D19-23 TIP, 19-description to 3rd year.	22 STIP to deprograr	m in 2020, n	nove in to FY 20	029 and update project nam	ne and
07/2020	2024	05/2020	Program into D2045 MTP, D21-24 TIP a	and 21-24 STIP in FY	2024-Exem	pt		
General Proje	ect Information			F	undina Info	rmation (YOE))	

<u>General Proje</u>	ect information	Funding information (TOE)				
Project Sponsor:	Sun Metro	Fed. Fundig Category:	Regionally Significant or Other (incl FHWA transfers)			
MPO ID:	T106	OtherFTASection:	FHWA CAT 5 - CMAQ Transfer to FTA			
Project Name:	Park and Ride Far West	Federal (FTA) Funds:	\$2,624,141			
Apportionment Year:	2024	State (TXDOT) Funds:	\$0			
Project Phase:	C	Other Funds:	\$656,035			
Brief Project Description:	Create a Park and Ride site in Far West El Paso in the area of I-10 and	Fiscal Year Cost:	\$3,280,176			
Sec5309 ID:	Transmountain	Construction: \$3,280,17 Total Project Cost:	6 PE: \$0 ROW: \$0 \$3,280,176			
Amend Date:	07/2020		\(\delta\)			
Remarks/Amend Action:	•	TDC Amount Requested:	\$0			
	2024-Exempt	TDC Awarded Date & Amo	ount: \$0			

07/2020 2024 05/2020 Program into D2045 MTP, D21-24 TIP and 21-24 STIP in FY 2024-Exempt

Financial Section

EL PASO MPO - District 24

FY 2021 - 2024 Transportation Improvement Program

Funding by Category

Wednesday, January 13, 2021

		FY	2021	FY	2022	FY	2023	FY	2024	Total F	Y 2021 - 2024
Category	Description	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized
1	Preventive Maintenance & Rehabilitation	\$33,817,518	\$33,817,518	\$37,283,610	\$37,283,610	\$30,716,484	\$30,716,484	\$35,543,103	\$35,543,103	\$137,360,715	\$137,360,715
2M or 2U	Urban Area (Non- TMA) Corridor Projects	\$5,000,000	\$5,000,000	\$209,742,472	\$209,742,472	\$0	\$0	\$0	\$0	\$214,742,472	\$214,742,472
3	Non-Traditionally Funded Transportation Project (Includes Prop 12v1, Prop 12v2, Prop 14, Lcl funds)	\$1,956,853	\$1,956,853	\$4,316,000	\$4,316,000	\$1,410,000	\$1,410,000	\$20,173,490	\$20,173,490	\$27,856,343	\$27,856,343
4	Statewide Connectivity Corridor Projects	\$0	\$0	\$27,979,725	\$27,979,725	\$0	\$0	\$0	\$0	\$27,979,725	\$27,979,725
5	CMAQ	\$8,784,787	\$8,784,787	\$8,911,093	\$8,911,093	\$9,039,917	\$9,039,917	\$9,171,259	\$9,171,259	\$35,907,056	\$35,907,056
5 Flex	Map21 Flex	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Structures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Metro Mobility & Rehab	\$18,266,000	\$20,447,479	\$20,741,516	\$20,741,516	\$21,041,630	\$21,041,630	\$12,000,000	\$21,347,354	\$72,049,146	\$83,577,979
8	Safety	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Transportation Enhancements	\$0	\$0	\$3,761,928	\$3,761,928	\$0	\$0	\$0	\$0	\$3,761,928	\$3,761,928
9 Flex	TAP	\$2,063,990	\$2,903,307	\$756,780	\$1,398,351	\$0	\$1,398,351	\$0	\$1,398,351	\$2,820,770	\$7,098,360
10	Supplemental Transportation Projects (Includes:Earmark, GR, CBI, KTXB)	\$6,628,645	\$6,628,645	\$0	\$0	\$0	\$0	\$0	\$0	\$6,628,645	\$6,628,645
11	District Discretionary	\$0	\$3,570,000	\$10,000,000	\$13,570,000	\$0	\$3,560,000	\$0	\$3,560,000	\$10,000,000	\$24,260,000
12	Strategic Priority	\$0	\$0	\$0	\$0	\$193,500,000	\$193,500,000	\$0	\$0	\$193,500,000	\$193,500,000
12C	Strategic Priority RECON (CMAQ)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
128	Strategic Priority RECON (STP)	\$0	\$0	\$0	\$ 0	\$0	\$0	\$0	\$0	\$0	\$0
SBPE	Strategy Budget PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SB 102	Strategy 102 Budget	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total	\$76,517,793	\$83,108,589	\$323,493,124	\$327,704,695	\$255,708,031	\$260,666,382	\$76,887,852	\$91,193,557	\$732,606,800	\$762,673,223

Funding Participation Source

Source	FY 2021	FY 2022	FY 2023	FY 2024	Total
Federal	\$59,648,751	\$255,541,691	\$203,438,424	\$45,371,489	\$564,000,355
State	\$8,463,504	\$57,001,161	\$44,843,297	\$7,108,621	\$117,416,582
Local Match	\$6,448,685	\$6,434,272	\$5,567,267	\$4,234,252	\$22,684,476
CAT 3 - Local/State Contributions	\$1,956,853	\$4,516,000	\$1,859,043	\$20,173,490	\$28,505,386
Total	\$76,517,793	\$323,493,124	\$255,708,031	\$76,887,852	\$732,606,800



EL PASO MPO - New Mexico District 1 & 2

2020-2023 NM State Transportation Improvement Program Destino 2021-2024 TIP

Funding by Category

Funding by Category				2000.110					Wednesday,	January 13, 2021
	FY	2021	FY	2022	FY	2023	FY	2024	Total FY 20	021 - 2023
Description	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized
CBIP (Coordinated Border Infrastructure Prog.)	\$127,909	\$127,909	\$0	\$0	\$0	\$0	\$0	\$0	\$127,909	\$127,909
City of Sunland Park, N.M.	\$66,881	\$66,881	\$517,398	\$517,398	\$0	\$0	\$0	\$0	\$584,279	\$584,279
CAQ (CMAQ Mandatory)	\$3,094,280	\$3,094,280	\$0	\$0	\$0	\$0	\$0	\$0	\$3,094,280	\$3,094,280
NHPP (National Highway Performance Program)	\$1,597,932	\$1,597,932	\$20,836,101	\$20,836,101	\$6,283,584	\$6,283,584	\$0	\$0	\$28,717,617	\$28,717,617
NM State Funds	\$9,100,000	\$9,100,000	\$13,450,909	\$13,450,909	\$2,716,416	\$2,716,416	\$0	\$0	\$25,267,325	\$25,267,325
Other	\$3,019,770	\$3,019,770	\$0	\$0	\$0	\$0	\$0	\$0	\$3,019,770	\$3,019,770
Other State Fund	\$0	\$0	\$800,000	\$800,000	\$0	\$0	\$0	\$0	\$800,000	\$800,000
STLE (Surface Transp Prog Large Urban - Exempt)	\$240,816	\$240,816	\$481,632	\$481,632	\$0	\$0	\$0	\$0	\$722,448	\$722,448
STPF (Surface Transp Prog Flexible)	\$905,990	\$905,990	\$5,995,050	\$5,995,050	\$0	\$0	\$0	\$0	\$6,901,040	\$6,901,040
STPL (Surface Transp Prog Large Urban >200K)	\$1,004,654	\$1,004,654	\$2,009,308	\$2,009,308	\$0	\$0	\$0	\$0	\$3,013,962	\$3,013,962
TAPL (Transp. Alternative Prog Large Urban >200K)	\$42,619	\$42,619	\$42,619	\$42,619	\$0	\$0	\$0	\$0	\$85,238	\$85,238
Total	\$19,200,851	\$19,200,851	\$44,133,017	\$44,133,017	\$9,000,000	\$9,000,000	\$0	\$0	\$72,333,868	\$72,333,868

Funding Participation Source

·					
Source	FY 2021	FY 2022	FY 2023	FY 2024	Total
Federal Participation	\$8,566,066	\$29,731,021	\$7,689,600	\$0	\$45,986,687
State Participation	\$10,561,699	\$13,878,393	\$1,310,400	\$0	\$25,750,492
Local Participation	\$6,205	\$6,205	\$0	\$0	\$12,410
Local/State Contributions	\$66,881	\$517,398	\$0	\$0	\$584,279
Total	\$19,200,851	\$44,133,017	\$9,000,000	\$0	\$72,333,868



Transit Financial Summary

El Paso MPO - TXDOT District 24

FY 2021 - 2024 Transportation Improvement Program

All Figures in Year of Expenditure (YOE) Dollars

Thursday, May 07, 2020

	Transit Program	FY	2021		FY	2022		FY	2023	
	Halloit Flogram	Federal	Match	Total	Federal	Match	Total	Federal	Match	Total
1	Sec. 5307 - Urbanized Formula >200K	\$13,610,012	\$3,402,502	\$17,012,514	\$13,586,607	\$3,396,652	\$16,983,259	\$14,524,622	\$3,631,155	\$18,155,777
2	Sec. 5307 - Urbanized Formula <200K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Sec. 5309 - Fixed Guideway Investment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Sec. 5337 - State of Good Repair	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Sec. 5339 - Bus & Bus Facilities >200K	\$2,429,287	\$607,322	\$3,036,609	\$2,475,120	\$618,780	\$3,093,900	\$1,712,451	\$428,113	\$2,140,564
6	Sec. 5310 - Seniors & People w/Disabilities >200K	\$650,000	\$0	\$650,000	\$650,000	\$0	\$650,000	\$0	\$0	\$0
7	Sec. 5316 - JARC >200K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Sec. 5317 - New Freedom >200K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Other FTA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Regionally Significant or Other (incl FHWA transfers)	\$1,823,774	\$2,002,797	\$3,826,571	\$1,534,074	\$383,518	\$1,917,592	\$1,040,000	\$260,000	\$1,300,000
	Total Funds	\$18,513,073	\$6,012,621	\$24,525,694	\$18,245,801	\$4,398,950	\$22,644,751	\$17,277,073	\$4,319,268	\$21,596,341
	Transportation Development Credits									
	Requested			\$0			\$0			\$0
	Awarded			\$0			\$0			\$0

All Figures in Year of Expenditure (YOE) Dollars

	Transit Dragram	FY	2024			TOTAL	
	Transit Program	Federal	State/Other	Total	Federal	State/Other	Total
1	Sec. 5307 - Urbanized Formula >200K	\$13,862,947	\$3,465,737	\$17,328,684	\$55,584,188	\$13,896,045	\$69,480,233
2	Sec. 5307 - Urbanized Formula <200K	\$0	\$0	\$0	\$0	\$0	\$0
3	Sec. 5309 - Fixed Guideway Investment	\$0	\$0	\$0	\$0	\$0	\$0
4	Sec. 5337 - State of Good Repair	\$0	\$0	\$0	\$0	\$0	\$0
5	Sec. 5339 - Bus & Bus Facilities >200K	\$2,550,754	\$637,689	\$3,188,443	\$9,167,612	\$2,291,904	\$11,459,516
6	Sec. 5310 - Seniors & People w/Disabilities >200K	\$0	\$0	\$0	\$1,300,000	\$0	\$1,300,000
7	Sec. 5316 - JARC >200K	\$0	\$0	\$0	\$0	\$0	\$0
8	Sec. 5317 - New Freedom >200K	\$0	\$0	\$0	\$0	\$0	\$0
9	Other FTA	\$0	\$0	\$0	\$0	\$0	\$0
10	Regionally Significant or Other (incl FHWA transfers)	\$4,224,141	\$3,479,525	\$7,703,666	\$8,621,989	\$6,125,840	\$14,747,829
	Total Funds	\$20,637,843	\$7,582,950	\$28,220,793	\$74,673,789	\$22,313,789	\$96,987,578
	Transportation Development Credits		•	·		•	
	Requested			\$0			\$0
	Awarded			\$0			\$0

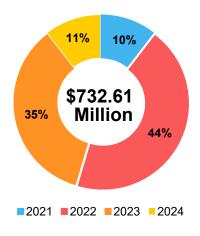


Analyses Section

El Paso MPO Destino 2021-2024 TIP

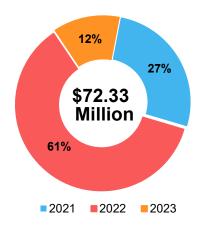
The illustrations below show a summary of the Total Costs per Fiscal Year for Texas Highway FHWA/Local Funds, New Mexico Highway/Transit Funds, and Texas Transit FTA/Local Funds.

TX Hwy FHWA & State/Local Funds



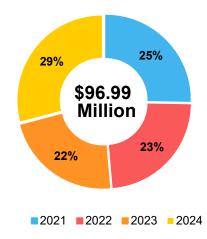
Fiscal Year	Cost (Millions)
2021	\$76.52
2022	\$323.49
2023	\$255.71
2024	\$76.89
Total	\$732.61

NM Hwy Funds (NM STIP 2020-2023)



Fiscal Year	Cost (Millions)
2021	\$19.20
2022	\$44.13
2023	\$9.00
Total	\$72.33

TX Transit FTA/Local Funds

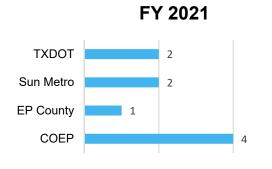


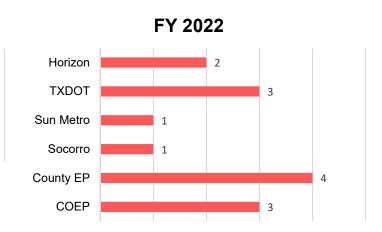
Fiscal Year	Cost (Millions)
2021	\$24.53
2022	\$22.64
2023	\$21.60
2024	\$28.22
Total	\$96.99

El Paso MPO Destino 2021-2024 TIP

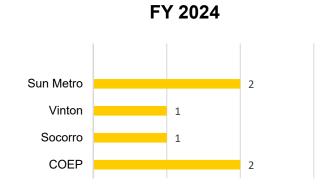
TX FHWA & State/Local Funds

Fiscal Year	Total YOE	Total Projects
2021	\$76,517,793	9
2022	\$323,493,124	14
2023	\$255,708,031	5
2024	\$76,887,852	6
	\$732,606,800	34

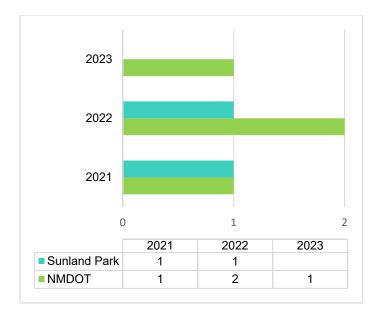






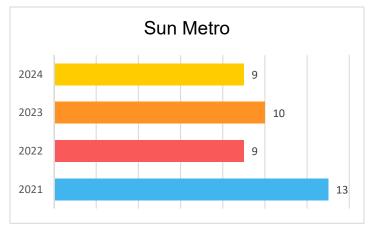


NM Hwy/Transit Funds



Fiscal Year	Total YOE	Total Projects
2021	\$19,200,851	2
2022	\$44,133,017	3
2023	\$9,000,000	1
	\$72,333,868	6

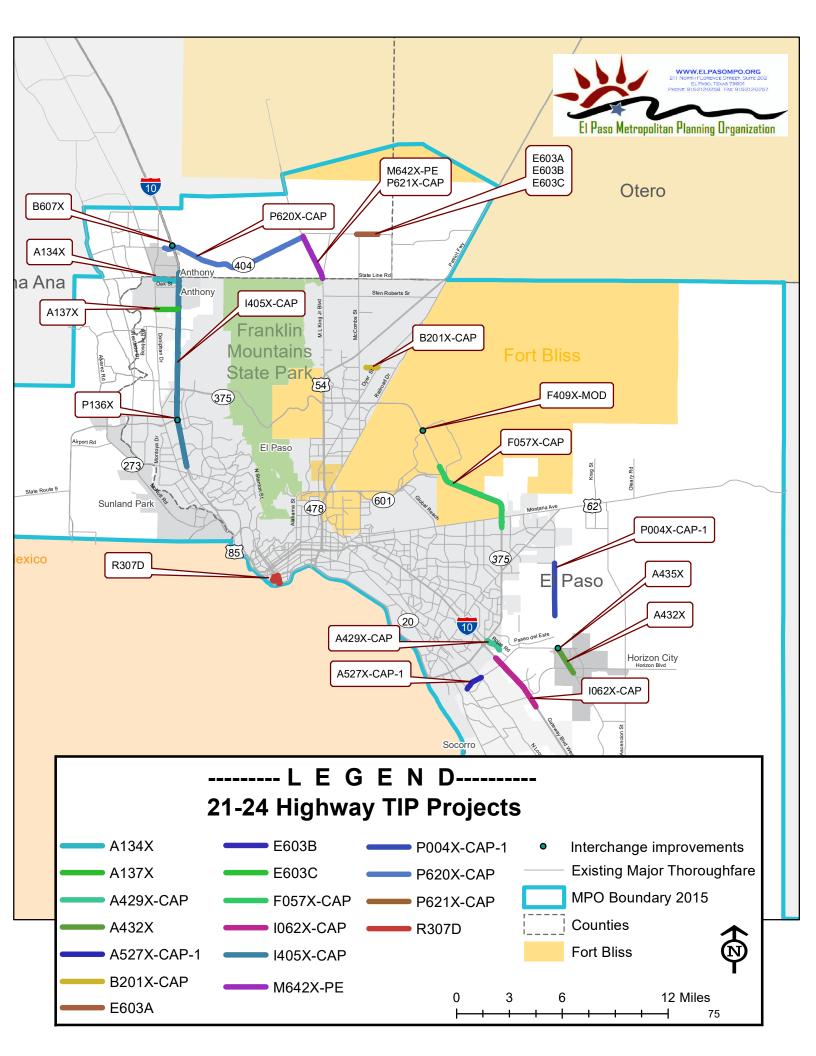
TX Transit FTA/Local Funds

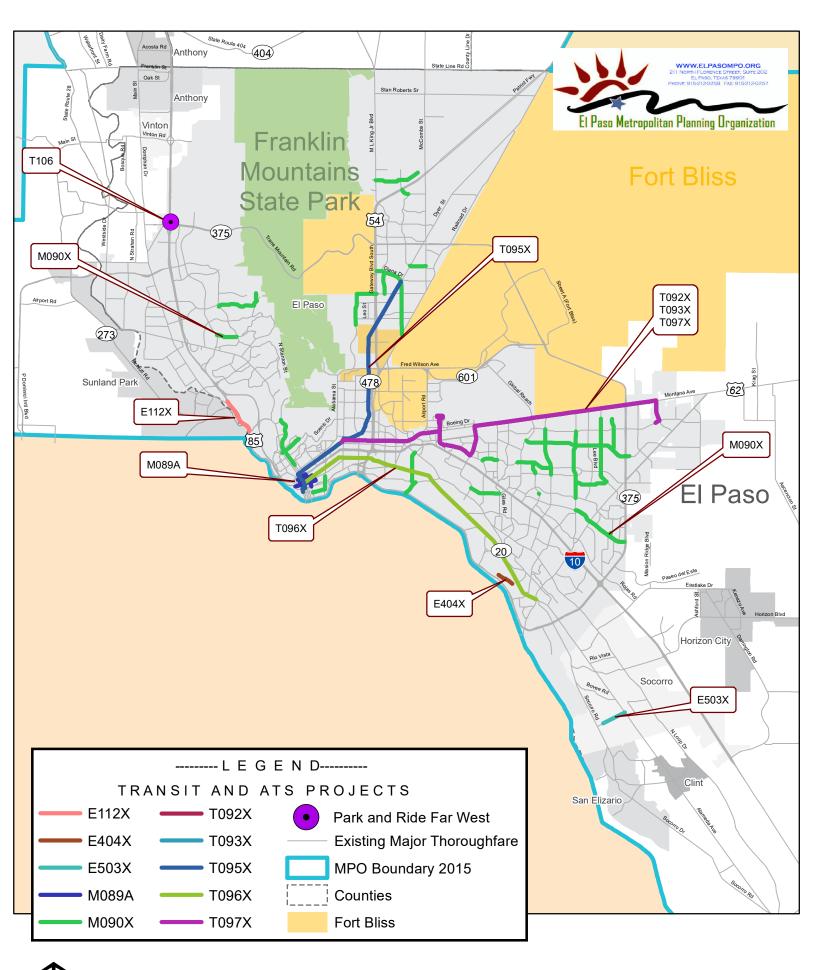


Fiscal Year	Total YOE	Total Projects
2021	\$24,525,694	13
2022	\$22,644,751	9
2023	\$21,596,341	10
2024	\$28,220,793	9
	\$96,987,578	41

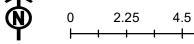
Map Section⁴

⁴ Map may not contain all projects in this document, only map-able projects will be illustrated.





9 Miles



MPO Self-Certification

MPO SELF-CERTIFICATION

In accordance with 23 CFR Part 450.336 and 450.220 of the Fixing America's Surface Transportation Act (FAST Act):, the Texas Department of Transportation, and the El Paso Metropolitan Planning Organization for the El Paso urbanized area(s) hereby certify that the transportation planning process is addressing the major issues in the metropolitan planning area and is being conducted in accordance with all applicable requirements of:

- 1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
- 2. In nonattainment and maintenance areas, sections 174 and 176(c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506(c) and (d)) and 40 CFR part 93
- 3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
- 4. <u>49 U.S.C. 5332</u>, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- Section 1101(b) of the FAST Act (<u>Pub. L. 114-357</u>) and <u>49 CFR part 26</u> regarding the involvement of disadvantaged business enterprises in DOT funded projects;
- 6. <u>23 CFR part 230</u>, regarding the implementation of an <u>equal employment opportunity program</u> on Federal and Federal-aid <u>highway</u> construction contracts;
- 7. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101et seq.) and 49 CFR parts 27, 37, and 38;
- 8. The Older Americans Act, as amended (<u>42 U.S.C. 6101</u>), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- 9. Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
- 10. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.

Texas Department of Transportation

Tomas Trevino, P.E.

District Engineer

6/1/2020

Date

Metropolitan Planning Organization

Policy Board Chairperson

Vincent Perez

Chairperson

5/22/2020

Date

MPO SELF-CERTIFICATION FOR NON-ATTAINMENT AREAS CERTIFICATION STATEMENT

The following information provides a summary of policies, procedures, and planning activities of the El Paso Metropolitan Planning Organization (MPO) and its Transportation Policy Board set forth to meet the requirements of federal transportation and air quality planning regulations in carrying out the FY 2020 and FY 2021 Unified Planning Work Program for Regional Transportation Planning and biennial development of the Transportation Improvement Program.

Metropolitan Planning: 23 U.S.C. 134, 49 U.S.C 5303, and implementing regulations;

The El Paso MPO's planning process is based on using state-of-the-art procedures, encompassing accurate data and methodologies, applied in a professional and unbiased manner. This planning process is carried out through an open approach that includes all local, state and federal transportation and air quality related agencies and organization, local elected officials and the public in the decision-making process. The continued focus of the MPO planning process is on the use of innovative techniques, as well as facilitating communication and partnerships as key mechanisms for improving mobility and air quality.

This process is carried out through the implementation of the Unified Planning Work Program through Performance Based Planning and the development of a financial and fiscally constrained long-range multi-modal transportation plan for the region; the biennial development of the Transportation Improvement Program; the development and adoption of the Metropolitan Transportation Plan every four years; the ongoing implementation of the region's Congestion Management Process focusing on the Travel Demand Management (TDM), Transportation Systems Management (TSM), and Intelligent Transportation System (ITS) technology; working closely with transportation providers throughout the region to conduct major investment and corridor feasibility studies which serve to evaluate, refine, and select transportation options for implementation; and ensuring that policies, programs, and projects when implemented will result in improved air quality for the region through the air quality conformity process.

Statewide Planning: U.S.C. Title 23, Sec. 135, U.S.C. Title 49, Ch. 53, Secs 5307-5311 and 5323(1); and 23 CFR Part 450.220

El Paso MPO works closely with TXDOT-El Paso District Office, the TXDOT Transportation Planning and Programming Division, and the Texas Transportation Commission to support the planning, funding, and implementation of transportation improvements. Whenever called upon, planning assistance is provided to assist TXDOT in meeting Statewide Planning requirements. The MPO and the State share financial information to carry out the financial constraint requirements of the planning process.

Clean Air Act: Air Pollution Prevention and Control: In non-attainment and maintenance area, section 174 and 176 © and (d) of the Clean Air Act, as amended (42, U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;

It is the policy of the El Paso MPO and its Transportation Policy Board that the continuing, cooperative, and comprehensive transportation planning process carried out by the MPO shall be done in coordination with the transportation-air quality planning process carried out by the State of Texas. Furthermore, it is the policy of the El Paso MPO and its Transportation Policy Board to not adopt a Metropolitan Transportation Plan or a Transportation Improvement Program until each plan or program has been demonstrated to be in conformity with the State Implementation Plan for Air Quality, including the air quality conformity requirements as set forth in the Clean Air Act Amendments of 1990. Resources are allocated biennially as part of the Unified Planning Work Program to ensure the coordination of the El Paso MPO transportation and air quality planning activities, and support determination of the air quality conformity process of the Metropolitan Transportation Plan and the Transportation Improvement Program. The El Paso MPO is an active partner with state and federal agencies as a member of the Air Quality Conformity Consultation Process.

Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CRF part 21; The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the bases of age in programs or activities receiving Federal financial assistance; and Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender;

The El Paso MPO is committed throughout the development of its plans and programs to ensure that no person on the grounds of age, gender, race color or national origin is excluded from participation in, denied the benefits of, or subjected to discrimination under any program receiving federal financial assistance. No plans, programs or policies developed or implemented by the El Paso MPO will have a disproportionately high adverse human health or environmental effect on minority and low-income populations. The El Paso MPO plans continue to work on improving the accessibility of employment to the identified protected populations. Further, many of the current MPO public meetings are held in minority and low-income communities in the region and are located near accessible public transit facilities. Funding is allocated as part of the Unified Planning Work Program for a Title VI Plan to maintain an analytical approach that produces procedures that meet Title VI requirements by ensuring that federally-funded transportation projects adequately consider effects on low-income and minority segments of the population.

Disadvantaged Business Enterprises (DBE) in planning projects: 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex or age in employment business opportunity; and Section 1101 (b) of the SAFETEA-LU (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects; 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;

The El Paso MPO follows the City of El Paso's Disadvantaged Business Enterprise which in turn follows the TXDOT DBE Plan. Funding is allocated as part of the Unified Planning Work Program to maintain an analytical approach that produces procedures that meet Environmental Justice requirements by ensuring that federally-funded transportation projects adequately consider effects on low-income and minority segments of the population.

Americans with Disabilities Act of 1990: The provision of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38; and Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.

It is the policy of the El Paso MPO to ensure that all agency programs and services are accessible to people with disabilities and are in compliance with the applicable regulations as a condition of receiving Federal financial assistance from the Department of Transportation. The El Paso MPO will make reasonable accommodations to a qualified individual with a disability who attends onsite meetings and meeting facilities meet this requirement. Every effort is made to ensure that meeting facilities off-site are ADA accessible. A notice is published in advance of all MPO public meetings that reasonable accommodations will be provided for meeting locations on and off-site with a phone number and contact persons listed to provide assistance if needed. In addition, the El Paso MPO staff is actively involved in various ADA-related initiatives which are being carried out as part of the Unified Planning Work Program including Elderly and Disabled Planning, the Job Access/Reverse Commute Program, and the review of ADA compliance documents developed by the region's transit and paratransit agencies, all of which focus on ensuring that transportation program and services across the region are accessible to those citizens with disabilities.

Restrictions on influencing certain federal activities: CFR 29, Part 20;

It is the policy of the El Paso MPO that no state or federal funds received by the agencies shall be paid to any person for the purpose of influencing the award of a federal contract, grant, or loan or the entering into of a cooperative agreement. NO state or federal funds received by the agencies shall be used directly or indirectly to influence any member of Congress, any member of the State Legislature, or any local elected official to favor or oppose the adoption of any prosed legislation pending before any federal, state, or local legislative body.

Acronyms

ADA Americans with Disabilities Act

ADT Average Daily Traffic

BACM Best Available Control Measures CFR Code of Federal Regulations

CMAQ Congestion, Mitigation, & Air Quality
CMP Congestion Management Process

CO Carbon Monoxide

DBE Disadvantaged Business Enterprises
EPA U.S. Environmental Protection Agency
FAST Act Fixing America's Surface Transportation Act

FHWA Federal Highway Administration FTA Federal Transit Administration HOV High Occupancy Vehicle

ITS Intelligent Transportation System IVHS Intelligent Vehicle Highway System

MAP-21 Moving Ahead for Progress in the 21st Century

MOVES Motor Vehicle Emission Simulator

MPO Metropolitan Planning Organization: City of El Paso

MTP Metropolitan Transportation Plan NAAQS National Ambient Air Quality Standards

NEAP Natural Events Action Plan

NM New Mexico

NMDOT New Mexico Department of Transportation NMED New Mexico Environment Department

NOx Nitrogen Oxide

PM-10 Particulate Matter 10 Microns or Less

POE Port of Entry

PPP Public Participation Plan
PSP Project Selection Process

RACT Reasonably Available Control Technologies

ROW Right of Way

RTP Recreational Trails Program

SAFETEA-LU Safe, Accountable, Flexible, Efficient Transportation Equity Act

A Legacy for Users

SIP State Implementation Plan SOV Single Occupancy Vehicle

STIP Statewide Transportation Improvement Program STP-MM Surface Transportation Program – Metro-Mobility

TAC Texas Administrative Code

TAP Transportation Alternatives Program
TASA Transportation Alternatives Set-Aside

TCEQ Texas Commission on Environmental Quality
TEA-21 Transportation Equity Act for the 21st Century

TIP Transportation Improvement Program
TMA Transportation Management Area

TPAC Transportation Project Advisory Committee

TPB Transportation Policy Board

TPWD Texas Parks and Wildlife Department
TRZ Transportation Reinvestment Zone
TSM Transportation System Management
TTI Texas Transportation Institute

TXDOT Texas Department of Transportation
UPWP Unified Planning Work Program
UTEP University of Texas at El Paso
UTP Unified Transportation Program

VMT Vehicles Miles Traveled VOC Volatile Organic Compound

YOE Year of Expenditure

Appendix A CMAQ Analyses

Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Bicycle Infrastructure Citywide

January 2021

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 13.0 miles of citywide bicycle infrastructure improvements in the City of El Paso.

Individual Project Analysis

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

Bicycle Infrastructure Citywide

The Bicycle Infrastructure Citywide project will install 13.0 miles of bicycle lane improvements along 9 roadways in the El Paso region. The project will serve the City of El Paso by increasing its regional bike infrastructure coupled with existing transit projects, educational centers, and commercial developments. Bicycle facilities will support and provide connectivity to existing bicycle facilities citywide with connection to mass transit centers and facilities and provide an alternative method of transportation. The infrastructure will be installed within City right-of-way and no property acquisition is anticipated.

The project will construct bicycle facilities citywide to include: buffered bike lanes, conventional bike lanes, bicycle boulevards, shared lane markings, and protected bicycle lanes. The project will include associated signage, wayfinding, striping, and intersection treatments.

The limits of the improvements involve several roadways:

- 1. High Ridge, from Resler to Franklin Hills
- 2. Ojo de Agua, from Westwind to Via Descanso
- 3. Montwood, from Yarbrough to Lee Trevino
- 4. Lomaland, from Montwood to Trawood
- 5. Pellicano, from George Dieter to Loop 375
- 6. Peter Cooper, from Pellicano to Missy Yvette
- 7. George Dieter, from Vista del Sol to Montwood
- 8. Pebble Hills, from George Dieter to Lisa Scherr
- 9. Sean Haggerty, from Aaron St. to US 54 (Patriot Freeway)

The components of the project are part of the August 2016 City of El Paso Bike Plan.

Data Sources

The City of El Paso provided the project description and scope, along with project information and data for the analysis. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits. In addition, TTI researchers reviewed emissions results from the *Update Air Quality Analysis for the Bicycle Infrastructure Citywide and Downtown Bicycle Improvements Phase I* report submitted to the City in 2019.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area, TTI, August 2019 describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emissions Rates". Tables 21 through 30 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, updated where appropriate for model version (MOVES2014a versus MOVES2014) and for analysis year (CMAQ years 2030 versus 2017).

The actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard implemented in January 2017 and for consistency with Ultra Low Sulfur Diesel). It is also noteworthy that the age distributions and AVFT input data from the 2017 analysis were used, since these are based on the latest available TxDMV vehicle registrations data.

TTI staff used American Community Survey data to compute a bicycle mode share for El Paso, along with a future growth rate for the mode in the region.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*.

Stated in words, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to bicycle mode, multiplied by the bike facility length, multiplied by the speed-based running exhaust emission factor for participants' trip before utilizing the bike lane.

The detailed equation is provided below in Strategy Equation.

The analysis year used is 2030. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the bike lanes over the project lifetime, any benefits accrued by the mode shift to bicycles may be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and dieselfueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust and evaporative emissions, start emissions, and brake wear and tire wear rates were calculated. (Process ID 1, 2, 9, 10, 11, 12, 13, 15, 16)
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- Overall average speed in the seven roadways is assumed to be 30 mph (Speed bin 7).
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. Use of the bicycle lanes can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime mode shift.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to bicycle were distributed proportionally across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects. TTI staff determined a valid percentage mode shift from automobile to

bicycle by participants in El Paso region. The characteristics of this new facilities may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the project:

- Light-duty passenger vehicle and light-duty passenger truck 2030 AADT of 102,396 is estimated. This figure is based on the 2014, 2018, and 2019 ADT traffic counts from the City of El Paso. AADT is estimated based on the data plus a professional estimate of traffic growth and an averaging of the counts. It assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It assumes 86% of the traffic is passenger vehicles.
- The current percent bicycle mode share for the El Paso region is estimated to be 2.0% and can serve as an optimistic mode share increase for the new bike facilities.
- The 0.02 increase in mode share represents new cyclists (vehicle trips replaced).
- Bike lane facility length of 13.0 miles is computed.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Equation 11.1, Bicycle and Pedestrian Lanes or Paths

Daily Emission Reduction = AADT * PMS * L * EF_B

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

Variables: AADT: Average annual daily traffic in corridor (vehicles/day)

EF_B: Speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program (NO_x, VOC, or CO) (grams/mile)

L: Length of facility (miles)

PMS: Percentage mode shift from driving to bike/pedestrian (decimal)

Analysis

Results

Daily Emission Reduction = AADT * PMS * L * EF_B

Note: Due to the large amount of data generated by the MOVES model and the required off-model computations, for presentation purposes the individual emissions rates are not provided in the results below.

For CO:

$$102,396 * 0.02 * 13.0 * EF_B = 28,049.829 \text{ grams/day}$$

Daily emission reduction is equal to 28.050 kg/day

For NOx:

$$102,396 * 0.02 * 13.0 * EF_B = 1,508.280 \text{ grams/day}$$

Daily emission reduction is equal to 1.508 kg/day

For VOC:

$$102,396 * 0.02 * 13.0 * EF_B = 877.730 \text{ grams/day}$$

Daily emission reduction is equal to 0.878 kg/day

For **PM-10**:

$$102,396 * 0.02 * 13.0 * EF_B = 1,457.812 \text{ grams/day}$$

Daily emission reduction is equal to 1.458 kg/day

Summary of Results

The overall emissions analysis results for the project are shown in Table 1. The estimated emissions benefits from the new bike lanes are significant and are dependent on increased use of bicycles as a travel mode in the city and region, therefore an emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from Bicycle Infrastructure Citywide

Pollutant	Emissions Reduction (kg/day)
CO	28.050
NOx	1.508
VOC	0.878
PM_{10}	1.458

Emissions Reduction Analysis for El Paso County Transit

EPC Transit Study Scenarios 3 and 6

Regional Transit Start-up assistance for FY 21-23

March 2020



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by El Paso County Transit to perform a mobile source emissions analysis for two potential service expansion scenarios in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The analysis focuses on the air quality benefits of two service expansion scenarios identified and supported from a feasibility study on transit service in El Paso County.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but this analysis should not be used for conformity purposes.

EPC Transit Study Scenarios 3 and 6

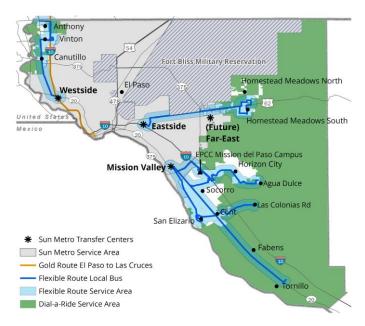
TTI was tasked by El Paso County Transit to conduct a feasibility study for potential service changes and expansion in its service area. The purpose of the study was to:

- Examine the feasibility of a seamless, countywide fixed-route transit system for all El Paso County
- Identify alternatives for transit within travel corridors throughout El Paso County
 - Service design
 - Organizational structure
 - Funding
- Assess potential to improve transit service for access to jobs, education, medical, shopping, personal business

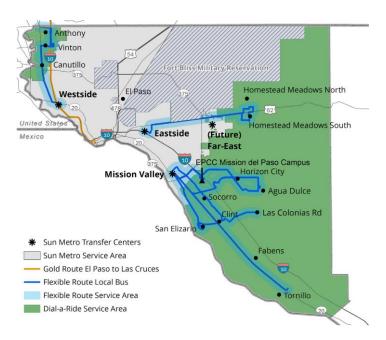
Stakeholders involved in the study chose two service expansion scenarios for further study, including the potential air quality benefits for the region. These are identified in the study as Scenario 3: Flexible-Route Local Bus and Rural Dial-a-Ride and Scenario 6: Increased Flexible-Route Local Bus and Rural/Urban Dial-a-Ride.

El Paso County Transit currently provides service on six county bus routes, the Gold Route intercity bus between Las Cruces, NM, and El Paso, TX, and the Vamonos Vanpool program. The six county bus routes operate along established routes with set schedules, and passengers can get on and off the bus by flagging the bus driver. The county bus routes link communities throughout El Paso County, and all routes connect to a Sun Metro transfer center.

Scenario 3: Flexible-Route Local Bus and Rural Dial-a-Ride provides service to almost all currently served areas. Some routes will have increased frequency and hours of service. All routes are designed to serve passengers traveling in either direction along the route and are scheduled to improve transfers between routes. Dial-a-ride serves rural areas outside the flexible-route service area. The Gold Route and Vamonos Vanpool program continue unchanged.



Scenario 6: Increased Flexible-Route Local Bus and Rural/Urban Dial-a-Ride provides service to almost all currently served areas. Some routes will have increased frequency and hours of service. All routes are designed to serve passengers traveling in either direction along the route and are scheduled to improve transfers between routes. Dial-a-Ride serves all areas of the county outside the flexible-route service area. The Gold Route and Vamonos Vanpool program continue unchanged.



Data Sources

The TTI team utilized several sources for the analysis: El Paso County *Transit Study Scenarios* section of the feasibility study that provided details of each scenario and current service, the El Paso County Transit Title VI Plan (April 2017), and internal route data.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors." Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) was used, updated where appropriate for model version and for analysis year. The MOVES inputs for this analysis are consistent with the El Paso County 2017 AERR inventories analysis, with updates as needed (e.g., expected future year values for fuel properties). VMT hourly factors are consistent with the El Paso 2017 AERR inventories analyses; the vehicle type VMT mix estimate was developed consistent with the methodology as described in the El Paso 2017 AERR report, but for 2025 analysis year.

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007 and the passenger characteristics information in the agency's Title VI plan.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.1 - System/Service Expansion. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2025. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, and transit buses are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Transit vehicle (source type 43) emission rates were included. Sourcetypeid 43 is composed of four MOVES regclass IDs: 41, 42, 46, and 47. Regclassid 41 rates output were selected as most representative of the County Transit vehicle rates.
- Running exhaust, running evaporative, brake wear, tire wear, and start emissions (Process ID 1, 2, 9, 10, 11, 12, 13, 15, 16)
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access, was used for the passenger vehicles. Road Type 5, urban unrestricted access, was used for the transit vehicles.
- Passenger vehicle replaced average speed during operating hours (peak and off-peak) is assumed 30 mph (speed bin 7).
- Average transit vehicle speed is assumed 25 mph (speed bin 6) based on data received from Sun Metro.
- The analysis period is 6:00 a.m. to 8:00 p.m. on a winter weekday for CO; the same period on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT_R) and vehicle-miles travelled reduced (VMT_R) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on the available ridership data, factoring in 25% of the increased ridership will be previous riders, an average new, former single occupant vehicle daily ridership of 1,097 for Scenario 3 and 2,997 for Scenario 6 was assumed.
- Scenario 3 shows 20.5 additional hours of service; Scenario 6 shows 56 additional hours.
- Additional bus mileage for Scenario 3, based on acquisition of 3 new transit vehicles, is 193 miles per day; additional bus mileage for Scenario 6, based on acquisition of 6 new transit vehicles, is 1,025 miles per day
- An average trip length replaced of 18 miles was assumed based agency route maps. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance (\mathbf{TEF}_{AUTO} and \mathbf{EF}_{B}) per vehicle type computed are not presented but are available for review, if needed.

3.1 System/Service Expansion

Daily Emission Reduction (for each pollutant) = A + B - C - D

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

$$C = VT_{BUS} * TEF_{BUS}$$

Increase in emissions from additional bus starts

$$D = VMT_{BUS} * EF_{BUS}$$

Increase in emissions from additional bus running exhaust emissions

Where

$$VT_R = N_{TR} * F_{T,SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

Variables: EF_B: Speed-based running exhaust emission

factor for affected roadway before implementation (NO_x, VOC, or CO)

(grams/mile)

 \mathbf{EF}_{BUS} : Speed-based running exhaust emission factor

for transit vehicle (NO_x, VOC, or CO)

(grams/mile)

F_T, sov: Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 N_{TR} : New transit ridership

TEF_{AUTO}: Auto trip-end emission factor (NO_x,

VOC, or CO) (grams/trip)

TEF_{BUS}: Bus (or other transit vehicle) trip-end

emission factor (NO_x, VOC, or

CO) (grams/trip)

TL_w: Average auto trip length (miles)

VMT by transit vehicle

VMT_R: Reduction in daily automobile VMT

VT_{BUS}: Daily vehicle trips by transit vehicle

VT_R: Reduction in number of daily automobile

vehicle trips

Analysis

For presentation purposes, the MOVES calculation results and extensive results from the equation calculations are not presented in the results below.

Scenario 3

$$VT_R = (1,464 * 2) * 0.75 = 2,196 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 2,196 * 18 = 39,528 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

Scenario 6

$$VT_R = (3,996 * 2) * 0.75 = 5,994 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 5,994 * 18 = 107,892 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

Summary of Results

The emissions analysis results for the scenarios is shown in Table 1. There are significant emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from both scenarios if implemented.

Table 1. EPC Transit Study Scenarios 3 and 6 Emission Reductions

Pollutant	Scenario 3 Reductions (kg/day)	Scenario 6 Reductions (kg/day)
CO	44.015	103.979
NOx	2.182	4.733
VOC	(2.784)	6.162
PM_{10}	(1.041)	2.300

Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Downtown Bicycle Improvements Phase I

October 2019

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 3.5 miles of bike lane infrastructure improvements in the City downtown area.

Individual Project Analysis

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

Downtown Bicycle Improvements - Phase I

The Downtown Bicycle Improvements - Phase I project will install 3.5 miles of bicycle lane improvements along 10 roadways in the El Paso downtown region. The project will serve the City of El Paso by increasing its regional bike infrastructure coupled with existing transit projects, educational centers, and commercial developments. Bicycle facilities will support and provide connectivity to existing bicycle facilities citywide with connection to mass transit centers and facilities and provide an alternative method of transportation. The infrastructure will be installed within City right-of-way and no property acquisition is anticipated.

The project will construct bicycle facilities downtown to include: buffered bike lanes, conventional bike lanes, bicycle boulevards, shared lane markings, and protected bicycle lanes. The project will include road diets, associated signage, wayfinding, striping, and intersection treatments.

The limits of the improvements involve several roadways:

Limit from:

Campbell from Missouri; El Paso from Sheldon; Main from Oregon; Mills from Sheldon; Missouri from Santa Fe; Myrtle from Stanton; San Antonio from Anthony; Sheldon from Santa Fe; Virginia to Mills; Magoffin from San Antonio

Limit to:

Campbell to Paisano; El Paso to Overland; Main to Campbell; Mills to Virginia; Missouri to Campbell; Myrtle to Campbell; San Antonio to Virginia; Sheldon to El Paso; Virginia to San Antonio; Magoffin to Virginia

The components of the project are part of the August 2016 City of El Paso Bike Plan.

Data Sources

The City of El Paso provided the project description and scope, along with project information and data for the analysis. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area, TTI, August 2019 describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emissions Rates". Tables 21 through 30 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, updated where appropriate for model version (MOVES2014a versus MOVES2014) and for analysis year (CMAQ years 2030 versus 2017).

The actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard implemented in January 2017 and for consistency with Ultra Low Sulfur Diesel). It is also

noteworthy that the age distributions and AVFT input data from the 2017 analysis were used, since these are based on the latest available TxDMV vehicle registrations data.

TTI staff used American Community Survey data to compute a bicycle mode share for El Paso, along with a future growth rate for the mode in the region.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*.

Stated in words, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to bicycle mode, multiplied by the bike facility length, multiplied by the speed-based running exhaust emission factor for participants' trip before utilizing the bike lane.

The detailed equation is provided below in Strategy Equation.

The analysis year used is 2030. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the bike lanes over the project lifetime, any benefits accrued by the mode shift to bicycles may be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and dieselfueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust and evaporative emissions, start emissions, and brake wear and tire wear rates were calculated. (Process ID 1, 2, 9, 10, 11, 12, 13, 15, 16)
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- Overall average speed in the seven roadways is assumed to be 30 mph (Speed bin 7).
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. Use of the bicycle lanes can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime mode shift.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to bicycle were distributed proportionally across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects. TTI staff determined a valid percentage mode shift from automobile to bicycle by participants in El Paso region. The characteristics of this new facilities may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the project:

- Light-duty passenger vehicle and light-duty passenger truck 2030 AADT of 51,228 is estimated. This figure is based on 2014 ADT traffic counts from the City of El Paso. AADT is estimated based on the data plus a professional estimate of traffic growth and an averaging of the counts. It assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It assumes 86% of the traffic is passenger vehicles.
- The current percent bicycle mode share for the El Paso region is estimated to be 2.0% and can serve as an optimistic mode share increase for the new bike facilities.
- The 0.02 increase in mode share represents new cyclists (vehicle trips replaced).
- Bike lane facility length of 3.5 miles is computed.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Equation 11.1, Bicycle and Pedestrian Lanes or Paths

Daily Emission Reduction = AADT * PMS * L * EF_B

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

Variables: AADT: Average annual daily traffic in corridor (vehicles/day)

EF_B: Speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program (NO_x, VOC, or CO) (grams/mile)

L: Length of facility (miles)

PMS: Percentage mode shift from driving to bike/pedestrian (decimal)

Analysis

Results

Daily Emission Reduction = AADT * PMS * L * EF_B

Note: Due to the large amount of data generated by the MOVES model and the required off-model computations, for presentation purposes the individual emissions rates are not provided in the results below.

For CO:

$$51,228 * 0.02 * 3.5 * EF_B = 3,778.188 \text{ grams/day}$$

Daily emission reduction is equal to 3.778 kg/day

For NOx:

$$51,228 * 0.02 * 3.5 * EF_B = 118.226 \text{ grams/day}$$

Daily emission reduction is equal to 0.118 kg/day

For VOC:

$$51,228 * 0.02 * 3.5 * EF_B = 203.159 \text{ grams/day}$$

Daily emission reduction is equal to 0.203 kg/day

For **PM-10**:

$$51,228 * 0.02 * 3.5 * EF_B = 196.361 \text{ grams/day}$$

Daily emission reduction is equal to 0.196 kg/day

Summary of Results

The overall emissions analysis results for the project are shown in Table 1. The estimated emissions benefits from the new bike lanes are significant and are dependent on increased use of bicycles as a travel mode in the city and region, therefore an emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from Downtown Bicycle Improvements - Phase I

Pollutant	Emissions Reduction (kg/day)
СО	3.778
NOx	0.118
VOC	0.203
PM_{10}	0.196

Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade – Phase 1

February 2018

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) for the design phase to help implement the project.

The project will design and implement a citywide traffic signalization improvement program.

Individual Project Analysis

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

Traffic Management Center Upgrade - Phase 1

The City of El Paso proposes a citywide traffic signal improvement program. The project includes the upgrade of the City of El Paso Traffic Management Center and Traffic Signal controller equipment city wide. This first phase is the design of the traffic signal upgrades to include evaluating latest technology used to control and communicate with traffic signal lights, adaptive technology, emergency preemption and mass transit priority. Field investigations will be necessary to evaluate any new construction needs to accommodate the new equipment footprint.

Phases 2-5 is the construction and implementation of the design for the upgraded signalized intersections throughout the City of El Paso.

Data Sources

The City of El Paso provided the project description and scope project information and data for the analysis. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

The technical report 2014 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area, TTI, August 2015 describes development of 2014 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 29 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors". Tables 19 through 22 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 22) was used, updated where appropriate for model version (MOVES2014a versus MOVES2014) and for analysis year (CMAQ years 2021 versus 2014).

In particular, the actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of 2014 actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard implemented in January 2017 and for consistency with Ultra Low Sulfur Diesel). It is also noteworthy that the age distributions and AVFT input data from the 2014 analysis were used, since these are based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available".

Traffic data for the city roadways was garnered from 2012 and 2016 TxDOT traffic count data for the El Paso District available online, along with El Paso MPO data. A growth rate was estimated and applied to the numbers.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS improvements. In this case, a link is an individual intersection. As the projects are inter-connected

with each other and, in some cases, are installed on the same roadways, it is more conducive to analyzed them as one large project then apportion the any emissions benefit to each component. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Since the requested finding is for the design phase, no direct emissions benefit will derive from the planning, testing, and design of the program. Phases 2 through 5 will provide the actual reductions. The Maricopa Association of Governments, with TTI, developed a method to allocate a small portion of the estimated total emissions reduction from the program to the planning phase of projects that qualify for CMAQ funding. The CMAQ program does allow for funding of plans, but funding applications should still provide and estimated benefit. This method is used for the analysis below.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated.
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) as a result of implementation.
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime activity.
- The emissions reduced as a result of project were distributed across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

• A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.

- Assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Total project length of 600 miles is computed.
- Five (5) percent of total estimate of emissions reduction applied to Phase 1.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction =
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

 \mathbf{EF}_A : Speed-based running exhaust emission factor after

implementation (NO_x and VOC) (grams/mile)

 \mathbf{EF}_{B} : Speed-based running exhaust emission factor before

implementation (NO_x and VOC) (grams/mile)

Length of each freeway affected by signalization

program (miles)

N: Number of affected corridors

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 12-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in the table below.

Pollutant	Emissions Reduction (kg/day)
CO	1,360.54
NOx	178.15
VOC	70.04
PM_{10}	203.03

Five percent of this total estimate was applied to Phase 1. The other 95 percent will be available for Phases 2-5 CMAQ applications.

Summary of Results

The emissions analysis results for the planning and design phase of the signalization project are shown in Table 1. As a reminder, for CMAQ application purposes, an emissions benefit should be shown for a project. Planning phases of projects create a dilemma for planners. The overall program is often built through implementation of individual phases. Planning and design phases do not create an emissions reduction in and of themselves. Only when constructed and operating do they begin to fulfill their role in emissions reductions. Five percent of the total estimated reductions for the traffic management center upgrade was applied to Phase 1. Nevertheless, the analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 1

Pollutant	Emissions Reduction (kg/day)
CO	68.03
NOx	8.91
VOC	3.50
PM_{10}	10.15

Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade Phase 2 – Design and Construction

March 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to begin the phased implementation of improvements to the City's Traffic Management Center.

Individual Project Analysis

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. As a result, this analysis should not be used for conformity purposes.

Traffic Management Center Upgrade – Phase 2 – Design and Construction

The City of El Paso seeks to implement phased updates to the City's Traffic Management Center (TMC). The second phase of these improvements consists of the following:

<u>Upgrades to Communications and Controllers</u>

- Ethernet/IP-based communications to all traffic elements (fiber optic/wireless/ethernet-over-copper)
- Infrastructure to support next generation transportation technologies.
 - Connected Vehicles
 - o Connected vehicle infrastructure
 - o Autonomous vehicle
 - o Internet of things

Data Sources

The City of El Paso provided items containing project information and data including project description and cost estimates. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

Emission rates used in the analyses were obtained from the U.S. Environmental Protection Agency's MOVES2014a model. TTI staff created MOVES2014a output files using MOVES input parameters consistent with the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in "Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area" (TTI, August 2019), with adjustments as needed for 2030 future analysis year. Local parameters include: meteorological, fuels, fuel fractions, age distributions, Inspection and Maintenance Program. The input files used to generate emission rates are consistent with those used for conformity analysis.

El Paso regional vehicle fleet mix fractions were derived from the TTI study *Production of Statewide* Non-Link-Based, On-Road Emissions Inventories with the MOVES Model for the Eight-Hour Ozone Standard Attainment Demonstration Modeling, conducted in August 2013.

Traffic data for the city roadways was garnered from TxDOT traffic count data for the El Paso District available online, along with El Paso MPO data. A growth rate was estimated and applied to the numbers.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS improvements. In this case, a link is an individual intersection. As the projects are inter-connected with each other and, in some cases, are installed on the same roadways, it is more conducive to analyzed them as one large project then apportion the any emissions benefit to each component. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated.
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) as a result of implementation.
- The analysis period is from 6:00 a.m. to 6:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime activity.
- The emissions reduced as a result of project were distributed across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

- A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.
- Assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Total project length of 600 miles is computed.
- Twenty-five (25) percent of total estimate of emissions reduction applied to Phase 2.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction =
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

 \mathbf{EF}_A : Speed-based running exhaust emission factor after

implementation (NO_x and VOC) (grams/mile)

EF_B: Speed-based running exhaust emission factor before

implementation (NO_x and VOC) (grams/mile)

Length of each freeway affected by signalization

program (miles)

N: Number of affected corridors

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 12-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in the table below.

Table 1. Total Estimated Emissions Reduction from Multi-Phase TMC Upgrade Project (2020 Update)

Pollutant	Emissions Reduction (kg/day)
CO	1,360.54
NOx	178.15
VOC	70.04
PM_{10}	203.03

Twenty-five percent of this total estimate was applied to Phase 2. Five percent was allocated to the previous Phase 1 design phase. The remaining 70 percent will be available for Phases 3-5 CMAQ applications.

Summary of Results

The emissions analysis results for the Phase 2 design and construction of the City's signalization project are shown in Table 2. The analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 2. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 2 – Design and Construction

Pollutant	Emissions Reduction (kg/day)
CO	340.135
NOx	44.538
VOC	17.510
PM_{10}	50.758

Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Border Highway West Hike and Bike Trail (Racetrack to Executive Center)

March 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 0.76 miles of hike and bike lane infrastructure improvements along Border Highway West.

Individual Project Analysis

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

Border Highway West Hike and Bike Trail

The Border Highway West Hike and Bike Trail project will install 0.76 miles of pedestrian and bicycle lane improvements. These include an 11-foot asphalt pavement with irrigated landscaping. The limits of the improvements are from the racetrack interchange to the Executive Center Dr. interchange.

The project will serve the City of El Paso by increasing its regional infrastructure coupled with existing transit projects, educational centers, and commercial developments. Bicycle facilities support and provide connectivity to existing bicycle facilities Citywide with connection to mass transit centers and facilities, and also provide an alternative method of transportation.

The components of the project are consistent with the City of El Paso Bike Plan.

Data Sources

The City of El Paso provided the project description and scope. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

The primary source for emission rates inputs and VMT factors (hourly factors and vehicle type VMT mix) for post-processing was the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in *Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area* (TTI, August 2019). For VMT mix, the latest 2030 TxDOT El Paso District estimates were used.

TTI staff used American Community Survey data to compute a bicycle mode share for El Paso, along with a future growth rate for the mode in the region. Researchers reviewed Strava bicycle count data available online.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*.

Stated in words, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to bicycle mode, multiplied by the bike facility length, multiplied by the speed-based running exhaust emission factor for participants' trip before utilizing the bike lane.

The detailed equation is provided below in Strategy Equation.

The analysis year used is 2030. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the bike lanes over the project lifetime, any benefits accrued by the mode shift to bicycles may be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for CO, VOC, NOx, and PM-10.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and dieselfueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust, evaporative emissions, brake wear, tire wear, and start emissions rates were calculated. (Process ID 1, 2, 11, 12, 13, 15)
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- Overall average speed in the seven roadways is assumed to be 30 mph (Speed bin 7).
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. Use of the bicycle lanes can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime mode shift.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to bicycle were distributed proportionally across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects. TTI staff determined a valid percentage mode shift from automobile to bicycle by participants in El Paso region. The characteristics of this new facility may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the project:

- Light-duty passenger vehicle and light-duty passenger truck AADT in the project area of 13,932 is estimated. This figure is based on AADT and ADT traffic counts from TxDOT and the City of El Paso. AADT is estimated based on the data plus a professional estimate of traffic growth and an averaging of the counts. It assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It assumes 86% of the traffic is passenger vehicles.
- The current percent bicycle mode share for the El Paso region is estimated to be 2.0% and can serve as an optimistic mode share increase for the new bike facilities.
- The 0.02 increase in mode share represents new cyclists (vehicle trips replaced). Based on current Strava data along W. Paisano Dr. (US 85), this should be considered very optimistic.
- Bike lane facility length of 0.76 miles is computed.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Equation 11.1, Bicycle and Pedestrian Lanes or Paths

Daily Emission Reduction = AADT * PMS * L * EF_B

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

Variables: AADT: Average annual daily traffic in corridor (vehicles/day)

EF_B: Speed-based running exhaust and start emissions factor for participants' trip before participating in the bike/pedestrian program (NO_x, VOC, or CO) (grams/mile)

L: Length of facility (miles)

PMS: Percentage mode shift from driving to bike/pedestrian (decimal)

Analysis

Results

Daily Emission Reduction = AADT * PMS * L * EF_B

Note: Due to the large amount of data generated by the MOVES model and the required off-model computations, for presentation purposes the individual running and start emissions rates are not provided in the results below.

For CO:

$$13,932 * 0.02 * 0.76 * EF_B = 2.964 \text{ kg/day}$$

For NOx:

$$13,932 * 0.02 * 0.76 * EF_B = 0.164 \text{ kg/day}$$

For VOC:

$$13,932 * 0.02 * 0.76 * EF_B = 0.221 \text{ kg/day}$$

For **PM-10**:

$$13,932 * 0.02 * 0.76 * EF_B = 0.221 \text{ kg/day}$$

Summary of Results

The overall emissions analysis results for the project are shown in Table 1. The estimated emissions benefits from the pedestrian and bicycle facilities are modest and dependent on increased use of

bicycles as a travel mode in the city and region, however an emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from Border Highway West Hike and Bike Trail

Pollutant	Emissions Reduction (kg/day)
CO	2.964
NOx	0.164
VOC	0.221
PM_{10}	0.014

Emission Reduction Analysis for City of El Paso Proposed CMAQ Project

Traffic Management Center Upgrade Phase 3 - Construction

March 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the City of El Paso to perform a mobile source emissions analysis for a proposed project in the El Paso metropolitan region. The city is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to begin the phased implementation of improvements to the City's Traffic Management Center.

Individual Project Analysis

The emissions analysis for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. As a result, this analysis should not be used for conformity purposes.

Traffic Management Center Upgrade - Phase 3 - Construction

The City of El Paso seeks to implement phased updates to the City's Traffic Management Center (TMC). The third phase of these improvements consists of the following:

Upgrades to Communications and Controllers

- Latest Advanced Traffic Management Systems (ATMS)
- Latest Advanced Transportation Controllers
- Adaptive Traffic Control Systems (ATCS)
- Multi-Modal Transportation Solutions, to include the following:
 - o Transit signal priority for mass transit vehicles
 - o Pre-emption for Emergency Vehicles
 - o Bicyclists
 - Pedestrians
- Hybrid or high-resolution vehicle detection technologies (Radar, Video, microwave)
- Changeable Message Signs (CMS)

Data Sources

The City of El Paso provided items containing project information and data including project description and cost estimates. These resources provided the research team with a better understanding of the proposed project and potential emissions benefits.

Emission rates used in the analyses were obtained from the U.S. Environmental Protection Agency's MOVES2014a model. TTI staff created MOVES2014a output files using MOVES input parameters consistent with the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in "Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area" (TTI, August 2019), with adjustments as needed for 2030 future analysis year. Local parameters include: meteorological, fuels, fuel fractions, age distributions, Inspection and Maintenance Program. The input files used to generate emission rates are consistent with those used for conformity analysis.

El Paso regional vehicle fleet mix fractions were derived from the TTI study *Production of Statewide Non-Link-Based, On-Road Emissions Inventories with the MOVES Model for the Eight-Hour Ozone Standard Attainment Demonstration Modeling,* conducted in August 2013.

Traffic data for the city roadways was garnered from TxDOT traffic count data for the El Paso District available online, along with El Paso MPO data. A growth rate was estimated and applied to the numbers.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 7.4 – *Intelligent Transportation Systems (ITS)*. The equation estimates the sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow due to the ITS

improvements. In this case, a link is an individual intersection. As the projects are inter-connected with each other and, in some cases, are installed on the same roadways, it is more conducive to analyzed them as one large project then apportion the any emissions benefit to each component. The equation is provided below in Strategy Equation.

The equation is valid for CMAQ purposes but a more robust analysis that models the hundreds of individual intersections would provide a more accurate estimate of the emissions benefits derived from the improvements.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10.
- The analysis year is 2030.
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 11, 21, 31, 32, 41, 42, 43, 51, 52, 53, 54, 61, 62).
- Running exhaust and evaporative emissions, break wear and tire wear emissions rates were calculated.
- Considering the project area and the type of emissions reduced through the strategy, emissions on Road Type 5, urban unrestricted access were analyzed.
- An average city network speed improvement from 30 mph to 35 mph is assumed (speed bin 7 to speed bin 8) as a result of implementation.
- The analysis period is from 6:00 a.m. to 6:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10. The effects of the signalization program can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime activity.
- The emissions reduced as a result of project were distributed across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

The following assumptions were made for the project:

- A 2030 average daily VMT of 21,500,000 is estimated for the roadway segments affected by installation of the equipment. Factoring in the disparate AADT and ADT numbers throughout the City, along with El Paso MPO regional VMT numbers, the estimate seems reasonable enough to capture the benefit from the project. Future VMT is estimated based on the estimated current number plus application of a 1.105 percent annual growth factor.
- Assumes 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis. It is also assumed that the traffic will be affected by 80% of the intersections in the City. Thus, projected 2030 citywide daily VMT affected by the program is 14,077,700.
- Total project length of 600 miles is computed.
- Twenty-five (25) percent of total estimate of emissions reduction applied to Phase 3.

The emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

N:

Equation 7.4, Intelligent Transportation Systems (ITS)

Daily Emission Reduction =
$$\sum_{i=1}^{n} [\mathbf{L}_{i} * \mathbf{ADT}_{i} * (\mathbf{EF}_{B} - \mathbf{EF}_{A})_{i}]$$

The sum of each ITS link's change in running exhaust emissions resulting from improved traffic flow.

Variables: ADT: Average daily traffic for each affected roadway

EF_A: Speed-based running exhaust emission factor after implementation (NO_x and VOC) (grams/mile)

EF_B: Speed-based running exhaust emission factor before implementation (NO_x and VOC) (grams/mile)

L: Length of each freeway affected by signalization program (miles)

For this analysis, the **L** and **ADT** are essentially the estimated VMT (14,077,770) affected by the project. The VMT was distributed through the 12-hour analysis period and multiplied by the result of the emission rate differences. This created a total estimated emissions reduction for the 2030 analysis year for the final, implemented project shown in Table 1 below.

Number of affected corridors

Table 1. Total Estimated Emissions Reduction from Multi-Phase TMC Upgrade Project (2020 Update)

Pollutant	Emissions Reduction (kg/day)
CO	1,360.54
NOx	178.15
VOC	70.04
PM_{10}	203.03

Twenty-five percent of this total estimate was applied to Phase 2. Five percent was allocated to the previous Phase 1 design phase, 25 percent to the proposed Phase 2. The remaining 45 percent will be available for Phases 4-5 CMAQ applications.

Summary of Results

The emissions analysis results for the Phase 3 construction of the City's traffic signalization project are shown in Table 2. The analysis shows a significant emissions benefit in the El Paso region can be expected from this project.

Table 2. Estimated Emissions Benefits from Traffic Management Center Upgrade – Phase 3 Construction

Pollutant	Emissions Reduction (kg/day)
CO	340.135
NOx	44.538
VOC	17.510
PM_{10}	50.758

Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

Alameda RTS Operations Assistance Phase 3 Update

December 2017

Prepared for



Ву



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Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform an updated mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the third phase of the Rapid Transit Service, BRIO, in the Alameda corridor in east El Paso region. The agency requested an update of the analysis using 2021 as the analysis year instead of the original 2020 data.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but *this analysis should not be used for conformity purposes*.

Alameda RTS Operations Assistance - Phase 3

Sun Metro transit agency is proposing operational assistance for the future 14.9-mile BRIO line in the Alameda corridor in northeast El Paso. The RTS line begins at the Downtown Transfer Center and ends at the Mission Valley Transfer Center. Fourteen buses will operate along the route with 29 stations.

Data Sources

Sun Metro provided several data sources to the TTI team for the original analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2014 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area, TTI, August 2015 describes development of 2014 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 29 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors". Tables 19 through 22 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 22) was used, updated where appropriate for model version (MOVES2014a versus MOVES2014) and for analysis year (CMAQ years 2021 versus 2014).

In particular, the actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of 2014 actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard implemented in January 2017 and for consistency with Ultra Low Sulfur Diesel). It is also noteworthy that the age distributions and AVFT input data from the 2014 analysis were used, since these are based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available".

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

Analysis Methods

TTI staff used an analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.2 - *System/Service Operational Improvements*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2021. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- The project is assumed to be implemented in the analysis; therefore, no transit vehicle emissions are included in the analysis.
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access was used.
- Average speed on IH-10 during RTS operating hours (peak and off-peak) is assumed 30 mph.
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT_R) and vehicle-miles travelled reduced (VMT_R) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro, an average daily ridership of 3,500 was assumed.
- APTA ridership survey reports show 55% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,625 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 14.9 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance (**TEF**_{AUTO} and **EF**_B) per vehicle type computed are not presented but are available for review if needed. Also, the project is assumed implemented by phase 3 thus transit vehicle emissions (parts C and D) are not included in this analysis.

3.2 System/Service Operational Improvements

Daily Emission Reduction (for each pollutant) = A + B

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

Where

$$VT_R = N_{TR} * F_{T.SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

Variables: EF_B: Speed-based running exhaust emission

factor for affected roadway before implementation (NO_x, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T,sov}$. Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 N_{TR} : New transit ridership

TEF_{AUTO}: Auto trip-end emission factor (NO_x,

VOC, or CO) (grams/trip)

TLw: Average auto trip length (miles)

VMT_R: Reduction in daily automobile VMT

VT_ℝ: Reduction in number of daily automobile

vehicle trips

Analysis

$$VT_R = (3,500 * 2) * 0.35 = 2,450 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 2,450 * 14.9 = 36,505 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

Summary of Results

The emissions analysis result for the project is shown in Table 1. There are significant emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Alameda RTS Phase 3 operational assistance project.

Table 1. Alameda RTS Operational Assistance – Phase 3 Emission Reductions

Pollutant	Emissions Reduction (kg/day)
CO	81.523
NOx	6.188
VOC	3.842
PM_{10}	1.948

Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

Dyer RTS Operations Assistance Phase 3 Update

December 2017

Prepared for



Ву



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Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform an updated mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the third phase of the Rapid Transit Service, BRIO, in the Dyer corridor in east El Paso region. The agency requested an update of the analysis using 2021 as the analysis year instead of the original 2020 data.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but *this analysis should not be used for conformity purposes*.

Dyer RTS Operations Assistance - Phase 3

Sun Metro transit agency is proposing operational assistance for the future 12-mile BRIO line in the Dyer corridor in northeast El Paso. The RTS line begins at the Downtown Transfer Center and ends at the future Northeast Transfer Center. Eight buses will operate along the route with 22 stations.

Data Sources

Sun Metro provided several data sources to the TTI team for the original analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2014 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area, TTI, August 2015 describes development of 2014 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 29 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors". Tables 19 through 22 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 22) was used, updated where appropriate for model version (MOVES2014a versus MOVES2014) and for analysis year (CMAQ years 2021 versus 2014).

In particular, the actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of 2014 actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard implemented in January 2017 and for consistency with Ultra Low Sulfur Diesel). It is also noteworthy that the age distributions and AVFT input data from the 2014 analysis were used, since these are based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available".

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

Analysis Methods

TTI staff used an analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.2 - *System/Service Operational Improvements*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2021. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- The project is assumed to be implemented in the analysis; therefore, no transit vehicle emissions are included in the analysis.
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access was used.
- Average speed on IH-10 during RTS operating hours (peak and off-peak) is assumed 30 mph.
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT_R) and vehicle-miles travelled reduced (VMT_R) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro, an average daily ridership of 3,450 was assumed.
- APTA ridership survey reports show 55% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,588 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However this new service actively seeks SOV commuters.
- An average trip length of 12.0 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance (**TEF**_{AUTO} and **EF**_B) per vehicle type computed are not presented but are available for review if needed. Also, the project is assumed implemented by phase 3 thus transit vehicle emissions (parts C and D) are not included in this analysis.

3.2 System/Service Operational Improvements

Daily Emission Reduction (for each pollutant) = A + B

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

Where

$$VT_R = N_{TR} * F_{T, SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

Variables: EF_B: Speed-based running exhaust emission

factor for affected roadway before implementation (NO_x, VOC, or CO)

(grams/mile)

F_T, sov: Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 N_{TR} : New transit ridership

TEF_{AUTO}: Auto trip-end emission factor (NO_x,

VOC, or CO) (grams/trip)

TL_w: Average auto trip length (miles)

VMT_R: Reduction in daily automobile VMT

 VT_R : Reduction in number of daily automobile

vehicle trips

Analysis

$$VT_R = (3,450 * 2) * 0.35 = 2,415 \text{ trips/day}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 2,415 * 12.0 = 28,980 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

Summary of Results

The emissions analysis result for the project is shown in Table 1. There are significant daily emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Dyer RTS Phase 3 operational assistance project.

Table 1. Dyer RTS Operational Assistance – Phase 3 Emission Reductions

Pollutant	Emissions Reduction (kg/day)
CO	68.691
NOx	5.170
VOC	3.380
PM_{10}	1.550

Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

Montana RTS Operations Assistance Phase 1

March 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the first phase of the Rapid Transit Service, BRIO, in the Montana corridor in east-central El Paso region.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but this analysis should not be used for conformity purposes.

Montana RTS Operations Assistance - Phase 1

Sun Metro transit agency is proposing operations assistance for the first phase of the 16.8-mile BRIO line in the Montana corridor in east El Paso region. The RTS line begins at the Five Points Terminal and ends at the future Far East Transfer Center. Fourteen buses will operate along the route with 25 stations.

Data Sources

Sun Metro provided several data sources to the TTI team for the analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Workday Emissions Inventories: El Paso Area (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling set-ups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Summer and Winter Weekday Emissions Factors." Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) was used, updated where appropriate for model version and for analysis year.

In particular, the actual fuel formulation sulfur values were adjusted to reflect "expected" future year values in place of 2017 actual average sulfur level values (i.e., to maintain consistency with the Tier 3 gasoline standard and for consistency with Ultra Low Sulfur Diesel). It is also noteworthy that the age distributions and AVFT input data from the 2017 analysis were used, since these are based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available".

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

Analysis Methods

TTI staff used the analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.1 - *System/Service Expansion*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2022. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, and transit buses are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Transit vehicle (source type 42) emission rates were included as this will be a new service.
- Running exhaust, running evaporative, and start emissions (Process ID 1, 2, 11, 12, 13, 15)
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access, was used for the passenger vehicles. Road type 5, urban unrestricted access, was used for the transit vehicles.
- Average speed on IH-10 during operating hours (peak and off-peak) is assumed 30 mph.
- Average transit vehicle speed is assumed 20 mph (speed bin 5) based on data received from Sun Metro.
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT_R) and vehicle-miles travelled reduced (VMT_R) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro, an average daily ridership of 3,300 was assumed.
- APTA ridership survey reports show 52% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,775 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 12.6 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance (\mathbf{TEF}_{AUTO} and \mathbf{EF}_{B}) per vehicle type computed are not presented but are available for review, if needed.

3.1 System/Service Expansion

Daily Emission Reduction (for each pollutant) = A + B - C - D

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

$$C = VT_{BUS} * TEF_{BUS}$$

Increase in emissions from additional bus starts

$$D = VMT_{BUS} * EF_{BUS}$$

Increase in emissions from additional bus running exhaust emissions

Where

$$VT_R = N_{TR} * F_{T,SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

Variables: EF_B: Speed-based running exhaust emission

factor for affected roadway before implementation (NO_x, VOC, or CO)

(grams/mile)

 \mathbf{EF}_{BUS} : Speed-based running exhaust emission factor

for transit vehicle (NOx, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T.sov}$: Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 N_{TR} : New transit ridership

TEF_{AUTO}: Auto trip-end emission factor (NO_x,

VOC, or CO) (grams/trip)

TEF_{BUS}: Bus (or other transit vehicle) trip-end

emission factor (NOx, VOC, or

CO) (grams/trip)

TLw: Average auto trip length (miles)

VMT *BUS***:** VMT by transit vehicle

VMT_R: Reduction in daily automobile VMT

VT_{BUS}: Daily vehicle trips by transit vehicle

 VT_R : Reduction in number of daily automobile

vehicle trips

Analysis

For presentation purposes, the MOVES calculation results and extensive results from the equation calculations are not presented in the results below.

 $VT_R = (3,300 * 2) * 0.52 = 3,432 \text{ trips/day}$ Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

 $VMT_R = 3,432 * 12.6 = 43,243$ vehicle-miles/day Number of vehicle trips reduced multiplied by the average auto trip length

Summary of Results

The emissions analysis result for the project is shown in Table 1. There are significant emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Montana RTS operations assistance project.

Table 1. Montana RTS Operations Assistance Emission Reductions

Pollutant	Emissions Reduction (kg/day)
CO	100.325
NOx	2.929
VOC	5.553
PM_{10}	1.629

Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

Montana RTS Operations Assistance Phase 2

March 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the second phase of the Rapid Transit Service, BRIO, in the Montana corridor in east-central El Paso region.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but this analysis should not be used for conformity purposes.

Montana RTS Operations Assistance - Phase 2

Sun Metro transit agency is proposing operations assistance for the second phase of the 16.8-mile BRIO line in the Montana corridor in east El Paso region. The RTS line begins at the Five Points Terminal and ends at the future Far East Transfer Center. Twelve buses will operate along the route with 26 stations.

Data Sources

Sun Metro provided several data sources to the TTI team for the original analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Weekday Emissions Inventories: El Paso County (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014a-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling setups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emission Rates". Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, but for the CMAQ analysis years 2023 and 2025 (versus 2017 inventory year). In particular, for summer season the actual fuel formulation RVP level, sulfur content, and benzene content values were modified to reflect "expected" future year values in place of the summer 2017, local survey-based actual average RVP and sulfur and benzene level values (i.e., to consistency with state and federal standards). (Appropriate MOVES winter default formulations were used in absence of local, winter survey data.) The age distributions and AVFT input data from the 2017 analysis were used (although still based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available").

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

Analysis Methods

TTI staff used an analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.2 - *System/Service Operational Improvements*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2023. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- The project is assumed to be implemented in the analysis; therefore, no transit vehicle emissions are included in the analysis.
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access was used.
- Average speed on IH-10 during RTS operating hours (peak and off-peak) is assumed 30 mph (Speed bin 7).
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT_R) and vehicle-miles travelled reduced (VMT_R) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro and factoring in ridership growth, an average daily ridership of 3,600 was assumed.
- APTA ridership survey reports show 52% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,700 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 12.6 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance (\mathbf{TEF}_{AUTO} and \mathbf{EF}_{B}) per vehicle type computed are not presented but are available for review if needed. Also, the project is assumed implemented by phase 2 thus transit vehicle emissions (parts C and D) are not included in this analysis.

3.2 System/Service Operational Improvements

Daily Emission Reduction (for each pollutant) = A + B

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

$$B = VMT_R * EF_B$$

Reduction in auto running exhaust emissions from VMT reductions

Where

$$VT_R = N_{TR} * F_{T,SOV}$$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = VT_R * TL_W$$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

Variables: EF_B: Speed-based running exhaust emission

factor for affected roadway before implementation (NO_x, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T,sov}$: Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 N_{TR} : New transit ridership

TEF_{AUTO}: Auto trip-end emission factor (NO_x,

VOC, or CO) (grams/trip)

TL_W: Average auto trip length (miles)

 VMT_R : Reduction in daily automobile VMT

 VT_R : Reduction in number of daily automobile

vehicle trips

Analysis

$$VT_R = (3,600 * 2) * 0.52 = 3,744 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 3,744 * 12.6 = 47,174 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

Summary of Results

The emissions analysis result for the project is shown in Table 1. There are significant daily emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Montana RTS Phase 2 operational assistance project.

Table 1. Montana RTS Operational Assistance - Phase 2 Emission Reductions

Pollutant	Emissions Reduction (kg/day)
СО	99.211
NOx	6.635
VOC	4.688
PM_{10}	2.513

Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

Montana RTS Operations Assistance Phase 3

March 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ).

The project is operational assistance for the third phase of the Rapid Transit Service, BRIO, in the Montana corridor in east-central El Paso region.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

It is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ program submission, but *this analysis should not be used for conformity purposes*.

Montana RTS Operations Assistance - Phase 3

Sun Metro transit agency is proposing operations assistance for the third phase of the 16.8-mile BRIO line in the Montana corridor in east El Paso region. The RTS line begins at the Five Points Terminal and ends at the future Far East Transfer Center. Twelve buses will operate along the route with 26 stations.

Data Sources

Sun Metro provided several data sources to the TTI team for the original analysis: a map of the proposed route, previous emissions analysis for the route, the mileage, hours of operation, and operating costs for the route.

The technical report 2017 On-Road Mobile Source Annual, Summer Weekday and Winter Weekday Emissions Inventories: El Paso County (TTI, August 2019) describes development of 2017 analysis year El Paso MOVES2014a-based actual on-road inventories, which were the basis for these MOVES runs, with respect to MOVES modeling procedures and MOVES input data. MOVES modeling setups and input data combinations are described starting on Page 33 of the report, in the section "Estimation of Seasonal Weekday Emission Rates". Tables 22 through 33 and surrounding text contain the details. The MOVES modeling part of the process and the local/default input data combinations as described (Table 24) were used, but for the CMAQ analysis years 2023 and 2025 (versus 2017 inventory year). In particular, for summer season the actual fuel formulation RVP level, sulfur content, and benzene content values were modified to reflect "expected" future year values in place of the summer 2017, local survey-based actual average RVP and sulfur and benzene level values (i.e., to consistency with state and federal standards). (Appropriate MOVES winter default formulations were used in absence of local, winter survey data.) The age distributions and AVFT input data from the 2017 analysis were used (although still based on the mid-year 2014 TxDMV vehicle registrations data, which is currently still "latest available").

Transit passenger characteristics were derived from the American Public Transportation Association report A Profile of Public Transportation Passenger Demographics and Travel Characteristics Reported in On-Board Surveys published in May 2007.

Analysis Methods

TTI staff used an analysis method provided in the August 2008 version of the MOSERs Guide, equation 3.2 - *System/Service Operational Improvements*. The detailed equation is provided below in Strategy Equation.

Stated in words, the equation measures the reduction in start emissions and running exhaust emissions from a change in mode during the operating period and subtracting any additional emissions from the transit vehicles. The benefit is derived through attracting single occupant passenger vehicle drivers to utilize transit as their mode of travel.

The analysis year used is 2025. For planning purposes, the emissions benefit of a static program will decline over time.

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline
 and diesel-fueled, are included according to a projected regional VMT fleet mix (Source
 Type ID 21, 31)
- The project is assumed to be implemented in the analysis; therefore, no transit vehicle emissions are included in the analysis.
- Considering the project area and the type of trips reduced through the strategy, primarily, freeway commuting, emissions on Road Type 4, urban restricted access was used.
- Average speed on IH-10 during RTS operating hours (peak and off-peak) is assumed 30 mph (Speed bin 7).
- The analysis period is AM peak hours of 6:00-9:00 a.m., off-peak daytime hours from 9:00 a.m.-3:00 p.m. and PM peak hours of 3:00-8:00 p.m. on a winter weekday for CO; the same periods on a summer weekday for NOx, VOC, and PM-10.
- The vehicle trips reduced (VT_R) and vehicle-miles travelled reduced (VMT_R) were distributed proportionally across the 14 hours of model analysis and by vehicle type and fuel type in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- Based on ridership data provided by Sun Metro and factoring in ridership growth, an average daily ridership of 3,700 was assumed.
- APTA ridership survey reports show 52% of transit passengers to be commuting. The RTS project focuses on capturing new commute traffic, so 75% of riders are assumed to be traveling to work and back totaling 2,775 per day.
- The analysis assumes 35% of these commute passengers are former single occupant vehicle (SOV) drivers. This translates to 26.25% of all passengers. This should be considered optimistic. The APTA survey report showed 14.3% of transit roadway passengers would drive alone as an alternative if no transit service was available. However, this new service actively seeks SOV commuters.
- An average trip length of 12.6 miles was computed based on data provided by Sun Metro. The trip lengths were distributed evenly in the reduced VMT.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance to CMAQ project reporting requirements.

Strategy Equation

Note: Due to the extensiveness of the MOVES model output data and to help presentation of results, the individual start rates and emission rates per distance (\mathbf{TEF}_{AUTO} and \mathbf{EF}_{B}) per vehicle type computed are not presented but are available for review if needed. Also, the project is assumed implemented by phase 3 thus transit vehicle emissions (parts C and D) are not included in this analysis.

3.2 System/Service Operational Improvements

Daily Emission Reduction (for each pollutant) = A + B

$$A = VT_R * TEF_{AUTO}$$

Reduction in auto start emissions from trips reduced

 $B = VMT_R * EF_B$

Reduction in auto running exhaust emissions from VMT reductions

Where

 $VT_R = N_{TR} * F_{T,SOV}$

Number of new transit riders multiplied by the percentage of riders shifting from single-occupant auto use

 $VMT_R = VT_R * TL_W$

Number of vehicle trips reduced multiplied by the average auto trip length

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute

Variables: EF_B: Speed-based running exhaust emission

factor for affected roadway before implementation (NO_x, VOC, or CO)

(grams/mile)

 $\mathbf{F}_{T,sov}$: Percentage of people using a transit vehicle

that previously were vehicle drivers (decimal)

 N_{TR} : New transit ridership

TEF_{AUTO}: Auto trip-end emission factor (NO_x ,

VOC, or CO) (grams/trip)

TL_W: Average auto trip length (miles)

 VMT_R : Reduction in daily automobile VMT

 VT_R : Reduction in number of daily automobile

vehicle trips

Analysis

$$VT_R = (3,700 * 2) * 0.52 = 3,848 \text{ trips/day}$$

Number of transit riders multiplied by 2 multiplied by the percentage of riders shifting from single-occupant auto use

$$VMT_R = 3,848 * 12.6 = 48,485 \text{ vehicle-miles/day}$$

Number of vehicle trips reduced multiplied by the average auto trip length

Summary of Results

The emissions analysis result for the project is shown in Table 1. There are significant, continued daily emissions benefits for all four pollutants. The results indicate an estimated air quality benefit from the Montana RTS Phase 3 operational assistance project.

Table 1. Montana RTS Operational Assistance - Phase 3 Emission Reductions

Pollutant	Emissions Reduction (kg/day)
CO	90.721
NOx	5.599
VOC	4.504
PM_{10}	2.569

Emission Reduction Analysis for Sun Metro Proposed CMAQ Project

Far West Park and Ride Lot

April 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) El Paso office was tasked by Sun Metro to perform a mobile source emissions analysis for a proposed project in the El Paso nonattainment area. The project is the design and construction of a park and ride lot in Far West El Paso. The transit agency is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement it.

Individual Project Analysis

The emissions analysis for the project is presented below. The strategy name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equation used from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) is given for the strategy along with the variables of the equation and the equation itself. The results are then computed for the strategy equation.

Given the short time available to conduct these analyses, it is recommended that the agency conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for submission but more time available and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

Far West Park and Ride Lot

Sun Metro is planning to create a park-and-ride lot in Far West El Paso near the interchange of IH-10 and Transmountain Drive (Loop 375). The project involves land acquisition and construction of a single level parking area to include lighting, landscaping and accessibility for an expanding area that is currently underserved by transit. The expansion of service will provide the opportunity for economic development and the opportunity to reduce anticipated congestion in the far western portion of the El Paso region. The area continues to see increased development with new hospitals and businesses creating the need for connectivity to other areas of the region.

Data Sources

Sun Metro provided an estimated new daily ridership generated by the proposed facility, project description, and transit vehicle operating characteristics.

Emission rates used in the analyses were obtained from the U.S. Environmental Protection Agency's MOVES2014a model. The primary source for emission rates inputs and VMT factors (hourly factors and vehicle type VMT mix) for post-processing was the latest TCEQ periodic emissions inventories, i.e., the 2017 AERR inventories for El Paso County documented in "Development of 2017 On-Road Mobile Source Annual, Summer Work Weekday, and Winter Work Weekday Emissions Inventories for Specified Areas: El Paso Area" (TTI, August 2019). For VMT mix, which TTI develops in five-year increments by TxDOT district, the latest 2025 TxDOT El Paso District estimates were used.

Analysis Methods

TTI staff used a modified version of the analysis method provided in the August 2008 version of the MOSERs Guide, Park-and-Ride equation 8.1 - New Facilities. The detailed equation is provided below in Strategy Equation. Stated in words, the equation measures the reduction in running exhaust emissions from reduced VMT resulting from park and ride lot use by SOV commute drivers.

The analysis year used is 2027. For planning purposes, the emissions benefit of a static program will decline over time

Assumptions in the MOVES2014a output for the project included:

- Output created for VOC, CO, NOx, and PM-10
- Light-duty passenger vehicles and light-duty passenger trucks (SUVs) vehicle types, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type ID 21, 31)
- Running exhaust and running evaporative emissions (Process ID 1, 9, 10, 11, 12, 13, 15)
- Considering the project area and the type of trips reduced through the strategy, primarily commuter trips, emissions on Road Type 4, urban restricted access, were used.
- Average speed of the previous commute trip on surrounding highways during peak hours is assumed to be 40 mph (Speed Bin 9).
- The analysis period is the bus route operating hours 5:00 a.m. 11:00 p.m. on a winter weekday for CO; the same period on a summer weekday for NOx, VOC, and PM-10.

The vehicle-miles travelled (VMT) reduced were distributed proportionally across the
operating hours for model analysis and by vehicle type and fuel type in line with the vehicle
fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable assumptions about projects.

- The data provided by Sun Metro on estimated new daily ridership allowed the VMT reduction to be computed directly, instead of estimated using the first three variables of the MOSERS equation.
- 1,138 passengers increase in daily ridership was given. New ridership is 50% per Sun Metro data computes to 569 new transit riders.
- Based on the Sun Metro data for each transit center connection provided by the park-andride lot: 387 new passengers on the new lot to the Northgate Transfer Center; 182 new riders on the new lot to Westside Transfer Center.
- Using Google Maps, the trip length from the new lot to Northgate is 13.7 miles; the trip length from the new lot to Westside is 5.9 miles. Estimated additional trip length from the Transfer Centers to final destinations is 5 miles (commuter and local destinations from the Centers). Two daily trips per new rider is assumed.
- The assumptions lead to an estimated daily VMT reduction of 18,442.

The final estimated emission reductions are presented in kilograms per day (kg/day) in accordance with CMAQ project reporting requirements.

Strategy Equation

8.1 New Park and Ride Facilities

Daily Emission Reduction = $N_{PK}*U_P*(TL_W-TL_{PR})*EF_B*2$ trips/day

Reduction in running exhaust emissions from reduced VMT resulting from park and ride lot use

Final unit of measure: grams/day

Source: TTI

Variables: EF_B: Speed-based running exhaust emission factor before implementation

(NO_x, VOC, or CO) (grams/mile)

 N_{PK} : Number of parking spaces

TL_{PR}: Average auto trip length from home to parking facility miles)

TLw: Average auto work trip length (miles)

Up: Parking lot utilization rate (estimate)

Analysis

Note: For presentation purposes, the individual emissions rates are not given in the results below.

The daily emissions reduction for each pollutant is:

For CO:

$$18,442 * EF_B = 18.715 \text{ kg/day}$$

For NOx:

$$18,442 * EF_B = 0.535 \text{ kg/day}$$

For VOC:

$$18,442 * EF_B = 1.264 \text{ kg/day}$$

For **PM-10**:

$$18,442 * EF_B = 0.632 \text{ kg/day}$$

Summary of Results

The emissions analysis result for the project is shown in Table 1. The results indicate an estimated air quality benefit for all four pollutants from the Far West Park and Ride lot.

Table 1. Estimated Emission Reductions for Far West Park and Ride Lot

Pollutant	Emissions Reduction (kg/day)
СО	18.715
NOx	0.535
VOC	1.264
PM_{10}	0.632

Emission Reduction Analysis for NMDOT Proposed CMAQ Project

NM 404 and IH-10 Interchange Improvements

February 2020

Prepared for



Ву



Task Summary

The Texas A&M Transportation Institute (TTI) was tasked by the New Mexico Department of Transportation (NMDOT) to perform a mobile source emissions analysis for a proposed interchange improvement project in Dona Ana County in the El Paso metropolitan region. The department is seeking funding from the Congestion Mitigation/Air Quality Improvement Program (CMAQ) to help implement the project.

The project will construct 0.686 miles of traffic operational improvements at the interchange of NM 404 and IH-10 and will add a bike-ped path on the NM 404 and IH-10 bridge.

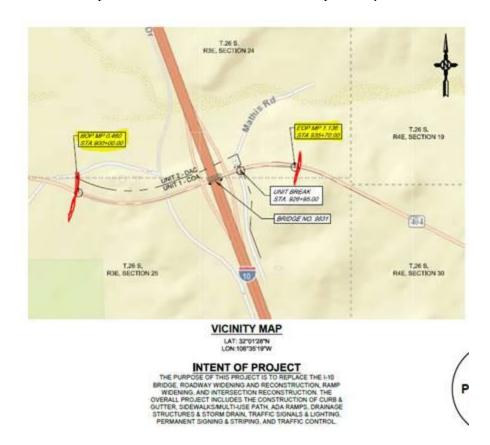
Individual Project Analysis

The emissions analyses for the project is presented below. The project name is given along with a brief description of the project. Data sources and analysis assumptions are provided. The equations selected for the strategies from the *Texas Guide to Accepted Mobile Source Emission Reduction Strategies* (MOSERs Guide) are given along with the equation variables. The strategy results are then computed.

Given the short time available to conduct this analysis, it is recommended that the department conduct a more detailed emissions study of the project as it develops further. The results presented below are valid for CMAQ applications, but more time and effort would increase the accuracy of the emissions benefits. As a result, this analysis should not be used for conformity purposes.

NM 404 and IH-10 Interchange Improvements

NMDOT is proposing to implement operational improvements at the interchange of NM 404 and IH-10 in Dona Ana County in the El Paso metropolitan region. The project limits are from mile post 0.460 to mile post 1.136 along NM 404. The purpose of this project is replacement of the IH-10 bridge, roadway widening and reconstruction, ramp widening, and intersection reconstruction. The overall project includes the construction of curb & gutter, sidewalks/multi-use path, ADA ramps, drainage structures & storm drain, traffic signals & lighting, permanent signing & striping, and traffic control. The improvements are estimated to be completed by 2023.



Data Sources

NMDOT and their consultant provided several items containing project information and data for the analysis: the NM 404 Capacity & Safety Study, along with the relevant pages from the December 2019 PS&E study.

TTI developed emission rates using U.S. Environmental Protection Agency's MOVES2014a model¹. Since the proposed interchange improvement project is in Dona Ana County in the El Paso

¹ Note that TTI used the November 2016 MOVES2014a release, which produces on-road mobile source emission rates consistent with and the equivalent of MOVES2014b results. MOVES2014a was released November 2015,

metropolitan region, TTI staff created MOVES2014a inputs for El Paso County for the year 2023 and estimated both idling and running emission rates required for this project. The input files used to generate emission rates are consistent with those currently in use by TTI in support of the El Paso MPO's (EPMPO) Destino 2045 MTP conformity analyses, required in El Paso County, Texas and in Sunland Park in Dona Ana County, New Mexico.

El Paso regional vehicle fleet mix fractions were also derived from the TTI emissions analyses in support of the EPMPO's Destino 2045 MTP conformity analyses (El Paso Metropolitan Planning Organization Transportation Conformity Report, 2015 Ozone National Ambient Air Quality Standard Newly Designated Sunland Park, New Mexico Nonattainment Area, EPMPO, June 2019).

TTI staff used 2009 American Community Survey data to compute a bicycle mode share for El Paso, along with a future growth rate for the mode in the region.

Analysis Methods

TTI researchers reviewed in detail all project information provided by NMDOT with the goal of identifying potential emissions reductions from the project. At this time, NMDOT does not anticipate any additional commercial, residential, or other developments in the project area before the build date. The Dona Ana Branch Community College is making a small addition to their campus but not large enough that greater traffic volumes are anticipated.

The improved connectivity of NM 404 and IH-10 should provide an increased average speed in peak and non-peak hours as vehicles move through the project area with greater efficiency. Modest increases in speed on this type of roadway will usually provide lower emissions rates in the MOVES model (i.e., 25 to 30 mph) at the same traffic volume. However, no projected speed data was available for the current roadways or proposed improvements. The project has a design speed of 45 mph, but that does not necessarily reflect actual future average speeds.

The implication of increased average speed through the interchange is enhanced by the future planned signalization and turning movements. These should decrease the amount of vehicle delay in the project area. Idling emissions reductions from this improvement are included in the analysis.

The project will also construct sidewalks and a multi-use paths (bike lanes) through the interchange. The extension of the bridge to accommodate the bike-ped path is crucial as currently there is no means to connect the commuters to the current bus stop in Dona Ana Branch Community College. However, little to no development is expected in the immediate area of the interchange nor do the sidewalks and bike lanes connect with an existing network. The emissions reductions from potential shifts to bicycles is expected to be minimal.

TTI staff used a modified version of the analysis method provided in the August 2008 version of the MOSERs Guide, Equation 7.2 - *Traffic Operations* along with Equation 11.1 – *Bicycle and Pedestrian Lanes or Paths*. Equation 7.2 attempts to estimate the improvements in idling emissions and speed

then updated December 2015, November 2016, and December 2017. The December 2017 MOVES2014a release only corrected a non-road mobile post-processing script. MOVES2014b was released August 2018. MOVES2014b improves the non-road component and updates chemical mechanism outputs, neither of which apply to on-road mobile emission rates

changes as a result of operational improvements. For this particular project, focus was placed on the changes in idling emissions and delay reduction. In Equation 11.1, the average annual daily traffic (AADT) of the corridor is multiplied by the percentage of drivers shifting to bicycle mode, multiplied by the bike facility length, multiplied by the speed-based running exhaust emission factor estimated for participants' trips before utilizing the bike lane.

The detailed equations are provided below in the Strategy Equations section.

The analysis year is 2023. For planning purposes, the emissions benefit of a static program will decline over time. Without the increased use of the bike lanes over the project lifetime, any benefits accrued by the mode shift to bicycles may be negated by the increased emissions from potential higher traffic volumes in the corridor over time.

Assumptions in the MOVES2014a output for the project included:

- Four MOVES2014a runs were conducted for this analysis, a) two for estimating idling emission rates for summer and winter seasons; b) two for estimating running emission rates for summer and winter seasons.
- Emission rates for VOC and NOx were estimated using summer season MOVES2014a outputs and winter outputs were used for estimating CO and PM10 emission rates.
- For traffic operations improvements, light-duty passenger vehicles and light-duty passenger trucks (pick-ups and SUVs), motorcycles, light commercial trucks, single unit short and long-haul trucks, and combination short and long-haul trucks, gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type IDs 11, 21, 31, 32, 52, 53, 61, 62).
- For the bike lanes. motorcycles, light-duty passenger vehicles and light-duty passenger trucks (SUVs), gasoline and diesel-fueled, are included according to a projected regional VMT fleet mix (Source Type IDs 11, 21, 31, 32)
- Running exhaust and evaporative emissions, brake wear, and tire wear emissions rates were calculated.
- Considering the project area and the type of trips reduced through the strategy, emissions on Road Type 3, rural unrestricted access were analyzed.
- Overall average speed in the roadways is assumed to be 45 mph (Speed bin 10).
- Idling operating mode in MOVES2014a includes speeds ranging from 0 to 1 mph.
- The analysis period is from 7:00 a.m. to 7:00 p.m. on a winter weekday for CO and PM10; the same period on a summer weekday for NOx and VOCPM10. Use of the bicycle lanes can occur throughout the day, but the greatest impact on emissions will occur with any peak hour or daytime hours mode shift.
- The estimated idling emissions reduced as a result of the project were distributed across the 12 hours and by vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.
- The vehicle-miles traveled (VMT) reduced as a result of the mode shift to bicycle was distributed proportionally across the 12 hours and by passenger vehicle types and fuel types in line with the vehicle fleet mix in the El Paso region.

TTI staff reviewed the project information to determine values for the individual variables in the MOSERs equation. The MOSERS Guide encourages planners to make conservative, justifiable

assumptions about projects. TTI staff determined a valid delay reduction and a percentage mode shift from automobile to bicycle by participants in the El Paso region. The characteristics of this new facility may provide impetus for significant mode shift, but planners should use available data.

The following assumptions were made for the operational improvements:

- In reviewing the data and information provided, the primary emissions benefit from the
 operational improvements will result from the reduction in idling emissions from the
 improved traffic signalization at the interchange.
- Projected 2023 average daily traffic (ADT) of 7,860 is estimated through the roadway segment. These figures are derived from the PS&E project plans. Researchers assumed 80% of the daily traffic along the roadways occurs in the 12-hour daytime period under analysis, equaling 6,288 ADT.
- El Paso region hourly VMT factors were used to estimate peak and off-peak ADT. The peak period ADT was estimated to be 61% (3,836) of 12-hour daytime period ADT used for the analysis and off-peak period ADT is estimated at 39% (2,452).
- Average delay reduction is estimated to be 15 seconds in peak hours and 5 seconds in off-peak hours.

The following assumptions were made for the bike lanes:

- Light-duty passenger vehicle and light-duty passenger truck 2023 ADT of 5,219 is estimated for the 12-hour analysis period on NM 404 in both directions. This figure is based on the provided build scenario traffic projection at the project area. Researchers then assumed 80% of the projected ADT along the roadway occurs in the 12-hour daytime period under analysis. Based on NMDOT PS&E fleet mix data, researchers then assumed 83% of the traffic is passenger vehicles.
- The current percent bicycle mode share for the El Paso region is estimated to be 2.0% and can serve as an optimistic mode share increase for the new bike facilities. However, this project is not integrating the bike lanes with an existing network. There is also little current or future development in the four quadrants of the interchange. A mode shift to bicycle and pedestrian of 0.005 is more reasonable.
- The 0.005 increase in mode share represents new cyclists (vehicle trips replaced).
- Bike lane facility length of 0.686 miles is computed.

The emission reductions are presented in kilograms per day (kg/day) in accordance with CMAQ project reporting requirements.

Strategy Equations

Equation 7.2, Traffic Operations (modified)

Daily Emission Reduction = $(I_P + I_{OP}) * EF_I$

Change in idling exhaust emissions from improved traffic flow during the peak and off-peak periods Where

 $I_P = (N_{PH} * V_{H, P} * DR_P)/3600$ seconds per hour

$$I_{OP} = (N_{OPH} * V_{H, OP} * DR_{OP})/3600$$
 seconds per hour

Reduction of idling in the peak and off-peak period

Final unit of measure: grams/day

Source: Texas A&M Transportation Institute (modified from CARB and

FHWA Southern Resource Center)

Variables:	DR_{P}	Estimated delay reduction during peak period (seconds)	
	$\mathrm{DR}_{\mathit{OP}}$:	Estimated delay reduction during off-peak period (seconds)	
	EF:	Idling emission factor (grams/hour)	
	I_{P} :	Peak hour reduction in idling emissions (vehicle-hours)	
	I _{OP} :	Off-peak hour reduction in idling emissions (vehicle-hours)	
	N_{PH} :	Number of peak hours	
	N_{OPH} :	Number of off-peak hours	
	$\mathbf{V}_{H,P}$.	Number of vehicles that pass through the intersection per hour during the peak period	
	$\mathrm{V}_{H,OP}$:	Number of vehicles that pass through the intersection per hour during the off-peak period	

Analysis

Daily Emission Reduction =
$$(I_P + I_{OP}) * EF_I$$

Note: For presentation purposes, the individual emissions rates are not given in the results below.

Where

$$I_P = (3,836*15)/3600$$
 seconds per hour $I_{OP} = (2,452*5)/3600$ seconds per hour $(15.98 + 3.41) = 19.39$

For CO:

$$19.39 * 7.206 = 139.71 \text{ grams/day}$$

Daily emission reduction is equal to 0.140 kg/day

For NOx:

$$19.39 * 4.837 = 93.79 \text{ grams/day}$$

Daily emission reduction is equal to 0.094 kg/day

For VOC:

$$19.39 * 1.703 = 33.01 \text{ grams/day}$$

Daily emission reduction is equal to 0.033 kg/day

For PM10:

$$19.39 * 0.359 = 6.97 \text{ grams/day}$$

Daily emission reduction is equal to 0.007 kg/day

Equation 11.1, Bicycle and Pedestrian Lanes or Paths

Daily Emission Reduction = AADT * PMS * L * EF_B

The average annual daily traffic of the corridor multiplied by the percentage of drivers shifting to bike/pedestrian multiplied by the average bicycle trip length multiplied by the speed-based running exhaust emission factor for participants' trip before participating in the bike/pedestrian program.

Final unit of measure: grams/day Source: Capitol Area MPO (CAMPO)

Variables: AADT: Average annual daily traffic in corridor (vehicles/day)

EF_B: Speed-based running exhaust emission factor for participants' trips before participating in the bike/pedestrian program (NO_x, VOC, or CO) (grams/mile)

L: Length of facility (miles)

PMS: Percentage mode shift from driving to bike/pedestrian (decimal)

Analysis

Daily Emission Reduction = AADT * PMS * L * EF_B

Note: For presentation purposes, the individual emission rates generated for the speed, hour, and each pollutant $(\mathbf{E}\mathbf{F}_B)$ are not shown in the equations below.

For CO:

Daily emission reduction is equal to 0.028 kg/day

For NOx:

$$5,219 * 0.005 * 0.686 * 0.167 = 2.989$$
grams/day

Daily emission reduction is equal to 0.003 kg/day

For VOC:

$$5,219 * 0.005 * 0.686 * 0.051 = 0.913 \text{ grams/day}$$

Daily emission reduction is equal to 0.0009 kg/day

For PM10:

$$5,219 * 0.005 * 0.686* 0.005 = 0.090 \text{ grams/day}$$

Daily emission reduction is equal to 0.00009 kg/day

Summary of Results

The overall emissions analysis results for the project are shown in Table 1. The estimated emissions benefits from the new bike lanes are modest and are dependent on increased use of bicycles as a travel mode in the city and region, but an emissions benefit in the El Paso region can be expected from this project.

Table 1. Estimated Emissions Benefits from NM 404 and IH-10 Traffic Improvements

Pollutant	Emissions Reduction (kg/day)
CO	0.140
NOx	0.094
VOC	0.033
PM_{10}	0.007

Table 2. Estimated Emissions Benefits from NM 404 and IH-10 Bike Lanes

Pollutant	Emissions Reduction (kg/day)
CO	0.028
NOx	0.003
VOC	0.0009
PM10	0.00009

Table 3. Total Estimated Emissions Benefits from NM 404 and IH-10 Operational Improvements

Pollutant	Emissions Reduction (kg/day)
CO	0.1680
NOx	0.0097
VOC	0.0339
PM10	0.0071

Appendix B Performance Based Planning and Programming

The Moving Ahead for Progress (MAP-21) federal transportation bill instituted performance measurement to provide greater accountability and transparency to achieve the most efficient and effective investment of transportation resources. Performance measurement requirements were refined in the Fixing America's Surface Transportation (FAST) Act. State DOTs and Metropolitan Planning Organizations (MPOs) are required to move towards a performance-based planning process with an emphasis on project selection based on specific planning factors.

Under Map-21, States are required to set annual safety performance targets (PM1). The annual measures States set targets for include:

- 1. Number of Fatalities,
- 2. Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT),
- 3. Number of Serious Injuries,
- 4. Rate of Serious Injuries per 100 million VMT, and
- 5. Number of Non- Motorized Fatalities and Non-Motorized Serious Injuries

The Texas Department of Transportation (TXDOT) established their statewide targets. Once the state set their safety targets, MPOs were required to either adopt the state's targets or set their own that would help achieve the statewide target. The El Paso MPO chose to adopt the state's targets. These statewide targets are:

TXDOT:

- Total Traffic Fatalities Per Calendar Year: 3,703.8
- Rate of Traffic Fatalities Per 100M VMT: 1.432
- Number of Serious Injuries: 17,565.4
- Rate of Serious Injuries Per 100M VMT: 6.740
- Number of Non-Motorized Fatalities and Serious Injuries: 2,150.6

Here are how the projects will assist in achieving the PM1 Target for Texas:

- Projects expected to achieve reduction in traffic fatalities and serious injuries for all modes of transportation;
- Projects expected to reduce severe traffic crashes;
- Projects are addressing the pedestrian/bicycle serious injury and fatality performance target by providing multimodal accommodations that currently do not exist;

Under Map-21, States are required to set four-year Pavement and Bridge (PM2) and Freight and Air Quality (PM3) performance targets.

The four-year measures for PM2 include:

- 1. Percentage of Interstate pavements in Good condition,
- 2. Percentage of Interstate pavements in Poor condition,
- 3. Percentage of non-Interstate NHS pavements in Good condition,
- 4. Percentage of non-Interstate NHS pavements in Poor condition,
- 5. Percentage of NHS by deck area classified as in Good condition, and
- 6. Percentage of NHS by deck area classified as in Poor condition

The four-year measures for PM3 include:

- 1. National Highway System Travel Time Reliability Measures:
 - a. Interstate Reliability
 - b. Non-Interstate Reliability,
- 2. Freight Reliability Measure:
 - a. Truck Travel Time Reliability, and
- 3. Congestion Mitigation and Air Quality (CMAQ):
 - a. Total Emission Reduction Measure

The Texas Department of Transportation (TXDOT) established their statewide targets. Once the state set their PM2 and PM3 targets, MPOs were required to either adopt the state's targets or set their own that would help achieve the statewide target. The El Paso MPO chose to adopt the state's targets. These statewide targets are:

TXDOT PM2:

Performance Measure	2022 Target
Pavement on IH	
% in "good" condition	66.4%
% in "poor" condition	0.3%
Pavement on non-IH NHS	
% in "good" condition	52.3%
% in "poor" condition	14.3%
NHS Bridge Deck Condition	
% in "poor" condition	0.80%
% in "good" condition	50.42%

Here are how the projects will assist in achieving the PM2 Target for Texas:

- CoEP is reconstructing and rehabilitating the pavement on 6 downtown streets through our CBD IV project.
- County of El Paso is providing new pavement (concrete), base and sub-base. The current roadway condition of the non-interstate on the NHS is poor for its Pellicano Widening project;
- John Hayes Construction Phase will be providing new pavement (concrete/HMAC), base and sub-base. No pavement exists, this will be a new roadway. There is no current roadway condition of the non-interstate on the NHS.
- TxDOT El Paso District's projects help by widening of main lanes at I-10, Loop 375, US 62/180 (Montana Ave.), and construction of frontage roads on LP 375 and US 62/180 (Montana Ave.); and additional bridge structure ramps at I-10 Connect and at Spur 601/Loop 375 Interchange. Improving pavement and bridge conditions.

TXDOT PM3:

Performance Measure	2022 Target
NHS Travel Time Reliability	
NIIS Haver Time Kenability	
IH Level of Travel Time	
Reliability	56.6%
Non-IH Level of Travel Time	
Reliability	55.4%
·	
Performance Measure	2022 Target
Truck Travel Time Reliability	1.79
Performance Measure	2022 Target
Performance Measure Total Emission Reduction	2022 Target
	2022 Target
	2022 Target 891.11

Here are how the projects will assist in achieving the PM3 Target for Texas:

- Sun Metro's operating assistance projects are assisting the PM3 Target "Total Emission Reduction" by bus procurements and engine rebuilds and providing reliable transit service that reduces congestion and enhances air quality through the use of an alternative fuel-CNG.
- CoEP is improving bicycle facilities citywide through four bicycle connectivity and infrastructure projects and improving transit facilities with the Montana RTS project. These projects will address CMAQ Total Emission Reduction by providing a viable alternative to automobile travel;
- County of El Paso is providing additional lanes to reduce traffic congestion, reduce emissions by providing multi-model options and reduce truck travel time by providing additional lanes and protected lanes/deceleration lanes; and
- John Hayes Construction Phase will be providing a new roadway connection to Pellicano as an alternative roadway to Loop 375 and Zaragoza by the addition of 6 new lanes to reduce traffic congestion, reduce emissions by providing multi-model options and reduce truck travel time by providing additional lanes and protected lanes/ deceleration lanes.
- TxDOT El Paso District's projects help achieve the PM3 targets by improving safety, mobility, connectivity, reliability, and reducing emissions at our main corridors of I-10, Loop 375, US 62/180, and US 54 (I-10 Connect), specifically on freight routes connecting to the Ports of Entry and along I-10 and Loop 375. Air quality will also be addressed with operational improvement projects along US 62/180.

As part of the FAST Act, performance measures were incorporated for transit agencies, primarily through the Transit Asset Management (TAM) assessment and planning requirements. Sun Metro's TAM plan was developed to meet that requirement. Sun Metro continuously seeks grants through the regional MPO in order to supplement the competitive and formula funding grants available from the FTA. Primarily Sun Metro applies for FHWA Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Program (STP) funding through the MPO. Funding from these grants are crucial to the agency's State of Good Repair (SGR) program and the resulting Transit Asset Management Plan (TAM). CMAQ funds provide for new and replacement bus funding, to include vehicles needed for new and extended services. Funding also allows for new or enhancements of terminals and stops to include accessibility and passenger amenities if associated with new or extended services. STP provides similar funding but without the new or extended service requirements. This grant funding not only permits Sun Metro to provide efficient and dependable service but supplements funding from other sources necessary to maintain SGR standards. For FY's 2021-2024 CMAQ, the federal funding portion obtained through the regional MPO, will total approximately \$12.6M for operating assistance (Dyer, Alameda, and Montana BRT's and Streetcar services) plus a Park and Ride Far West side project.





APPENDIX D: PERFORMANCE BASED PLANNING AND PROGRAMMING

UPDATESTO THE DESTINO 2045 MTP

On the following pages are the Performance Based Planning and Programming (PBPP) assumptions that were adopted by the El Paso MPO in the Original Destino 2045 MTP to include:

- Highway Safety Improvement Program, known as PM1
- Assessing Pavement Condition for the National Highway Performance Program and Bridge Condition for the National Highway Performance Program, known as PM2
- Assessing Performance of the National Highway System, Freight Movement on the Interstate System, and On-road Mobile Source Emissions Targets for the Congestion Mitigation and Air Quality (CMAQ) program, known as PM3
- Transit Asset Management (TAM)

Targets for safety measures are set annually and 2020 safety targets start on the next page. PM 2 and TAM targets are the same as the original Destino 2045. PM 3 targets are the same with the exception of the CMAQ Targets. At the time the Destino 2045 MTP was being developed, the El Paso MPO was in coordination with TxDOT to update the 4-year targets for Particulate Matter-10 (PM10) and Carbon Monoxide (CO). The El Paso MPO was also in coordination with NMDOT to update the 4-year target for PM 10.

On September 18, 2020 the El Paso MPO's Transportation Policy Board (TPB) updated the 4-year PM-10 target to 21.96 kg/day and updated the CO target to 841.62 kg/day for the Texas portion of the El Paso MPO planning area. Also, the TPB updated the 4-year PM-10 target to 3.48 kg/day for the New Mexico portion of the El Paso MPO planning area. These targets will replace the original targets on the following pages.

Also, on September 18, 2020 the TPB adopted Sun Metro's Public Transportation Agency Safety Plan (PTASP), which includes Fixed Routes, Street Car and Paratransit targets. See PTASP presentation to the TPB and PTASP targets at the end of this section.



PERFORMANCE BASED PLANNING AND PROGRAMMING IN THE ORIGINAL DESTINO 2045 MTP

Measuring and tracking the performance of the region's transportation system is a fundamental component of the Metropolitan Transportation Plan (MTP) and the performance-based planning process. Federal legislation passed in 2012 introduced a new requirement to incorporate a performance-based approach into the transportation planning process. The legislation, the Moving Ahead for Progress in the 21st Century Act, known as MAP-21, requires state Departments of Transportation (DOT), Metropolitan Planning Organizations (MPO), and transit authorities to set coordinated targets, report on a required set of performance measures, and prioritize projects using a coordinated performance-based planning process. These performance requirements were continued and reinforced by the Fixing America's Surface Transportation (FAST) Act, which was signed into law in 2015. Four Transportation Performance Management final rules have been released by the Federal Highway Administration and the Federal Transit Administration, passed through standard rulemaking procedure, and are now effective. Each final rule lists required measures, data sources, and calculation procedures.

The final Highway Safety Improvement Program, known as PM1

- Assessing Pavement Condition for the National Highway Performance Program and Bridge Condition for the National Highway Performance Program, known as PM2
- Assessing Performance of the National Highway System, Freight Movement on the Interstate System, and Congestion Mitigation and Air Quality Improvement Program (CMAQ), known as PM3
- Transit Asset Management

Federal performance measure final rules establish deadlines for target setting and reporting for each of the required performance measures. For the measures identified in each final rule, MPOs are required to include adopted targets, baseline performance measures, and progress toward the targets in the Destino 2045 MTP adopted two years after the effective date of the final rule. The four performance measure final rules currently effective were established at different times, and therefore have different target-setting and implementation deadlines, as seen below:

Final Rule	Rule Effective Date	Target Setting Deadlines			Required to be
rinai kule	Rule Effective Date	Provider	State DOT	MPO	Included in MTPs
Safety (PM1)	4/14/2016	N/A	8/31/2017	2/16/2018	5/27/2018
Pavement and Bridge Condition (PM2)	5/20/2017	N/A	5/20/2018	11/16/2018	5/20/2019
System Performance/Freight/CMAQ (PM3)	5/20/2017	N/A	5/20/2018	11/16/2018	5/20/2019
Transit Asset Management	10/01/2016	1/01/2017	10/01/2017	9/21/2018	10/01/2018

^{*}Safety (PM1) is updated yearly



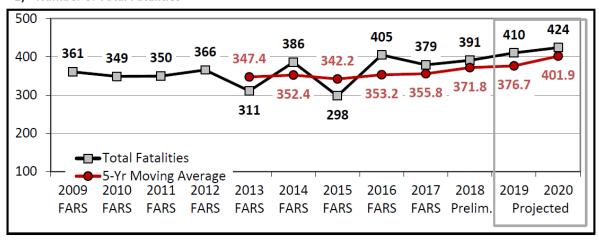
Safety (PM1):

On January 24, 2020 the El Paso MPO adopted the State of Texas Department of Transportation (TXDOT) and New Mexico Department of Transportation (NMDOT) targets for 5 Safety Performance measures based on five-year rolling averages for:

- 1. Number of Fatalities,
- 2. Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT),
- 3. Number of Serious Injuries,
- 4. Rate of Serious Injuries per 100 million VMT, and
- 5. Number of Non- Motorized Fatalities and Non-Motorized Serious Injuries

NMDOT PM 1 (Safety) 2020 Targets

1) Number of Total Fatalities

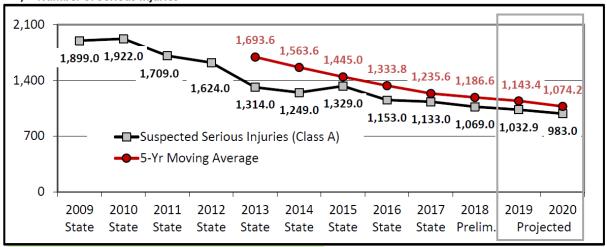


NMDOT 2020 Target for Number of Total Fatalities: 401.9

NMDOT Justification: Although five-year average fatalities rose by a moderate 2.4 percent between 2013 and 2017, preliminary and projected data indicate that fatalities will increase by about 13 percent between 2017 and 2020. Fatalities involving SUVs, pickup trucks and pedestrians are increasing and in 2018, accounted for 51.4 percent of all crash fatalities. Given the prevalence of SUV and pickup truck ownership, and projected increase in fatalities overall, the five-year average projection of 401.9 is determined to be the 2020 target.



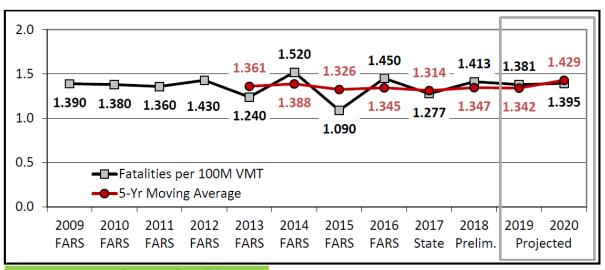
2) Number of Serious Injuries



NMDOT 2020 Target for Number of Serious Injuries: 1,074.2

NMDOT Justification: Five-year average serious injuries are projected to fall by about 7.5 percent between 2017 and 2019, and the State anticipates a continued reduction in serious injuries in 2020. The five-year average projection of 1,074.2 is the 2020 target.

3) Rate of Fatalities

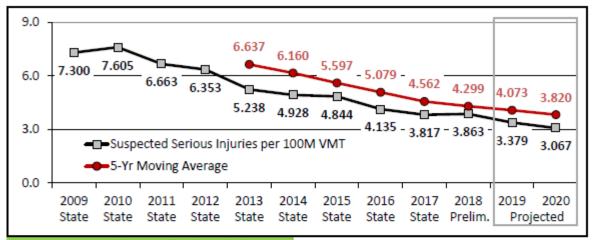


NMDOT 2020 Target for Rate of Fatalities: 1.429

NMDOT Justification: Although five-year average fatalities are expected to increase in 2020 from 2017, VMT is also expected to rise, thus the projected five-year average of 1.429 is the 2020 target.



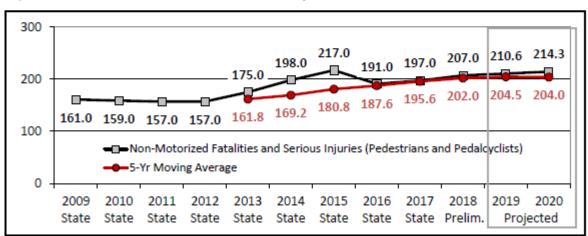
4) Rate of Serious Injuries



NMDOT 2020 Target for Rate of Serious Injuries: 3.820

NMDOT Justification: Justification: Five-year average serious injury rates are projected to continue falling, thus the five-year average projection of 3.820 is the 2020 target.

5) Number of Non-motorized Fatalities and Serious Injuries



NMDOT 2020 Target for Number of Non-motorized Fatalities and Serious Injuries: 204.0

NMDOT Justification: Five-year average non-motorized fatalities and serious injuries are projected to rise by about 5 percent over the next three years. The five-year average projection of 204.0 is the 2020 target.



TXDOT (PM1) TARGETS:

Target: Total number of traffic fatalities

2020 Target: To decrease the expected rise of fatalities to not more than a five-year average of 3,840 fatalities in 2020. The 2020 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2016	3,797	FARS
2017	3,722	ARF
2018	3,631	CRIS
2019	3,980	Target
2020	4,068	Target
2020 Target expressed as		3,840
5-yea	r average	3,040

As noted in the table above, the calendar year target for 2020 would be 4,068 fatalities.

Target: Total number of serious injuries

2020 Target: To decrease the expected rise of serious injuries to not more than a five-year average of 17,533 serious injuries in 2020. The 2020 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2016	17,573	CRIS
2017	17,535	CRIS
2018	14,892	CRIS
2019	18,367	Target
2020	18,602	Target
2020 Target expressed as 5-year average		17,394

As noted in the table above, the calendar year target for 2020 would be 18,602 serious injuries.



Target: Fatalities per 100 million vehicle miles traveled

2020 Target: To decrease the expected rise of fatalities per 100 MVMT to not more than a five-year average of 1.406 fatalities per 100 MVMT in 2020. The 2020 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2016	1.40	FARS
2017	1.37	ARF
2018	1.31	CRIS
2019	1.47	Target
2020	1.48	Target
2020 Target expressed as 5-year average		1.406

As noted in the table above, the calendar year target for 2020 would be 1.48 fatalities per 100 MVMT.

Target: Serious Injuries per 100 million vehicle miles traveled

2020 Target: To decrease the serious injuries per 100 MVMT to not more than a five-year average of 6.286 serious injuries per 100 MVMT in 2020. The 2020 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2016	6.48	CRIS
2017	6.42	CRIS
2018	5.37	CRIS
2019	6.60	Target
2020	6.56	Target
2020 Target expressed as 5-year average		6.286

As noted in the table above, the calendar year target for 2020 would be 6.56 serious injuries per 100 MVMT.



Target: Total number of non-motorized fatalities and serious injuries

2020 Target: To decrease the expected rise of non-motorized fatalities and serious injuries to not more than a five year average of 2,285.0 non-motorized fatalities and serious injuries in 2020. The 2020 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2016	2,304	FARS-CRIS
2017	2,146	ARF-CRIS
2018	2,104	CRIS
2019	2,394	Target
2020	2,477	Target
0	et expressed as r average	2,285.0

As noted in the table above, the calendar year target for 2020 would be 2,477 non-motorized fatalities and serious injuries.



Pavement and Bridge (PM2):

On November 16, 2018 the El Paso MPO adopted the State of Texas Department of Transportation (TXDOT) and New Mexico Department of Transportation (NMDOT) targets for six Pavement and Bridge Performance measures:

- 1. Percentage of Interstate pavements in Good condition,
- 2. Percentage of Interstate pavements in Poor condition,
- 3. Percentage of non-Interstate NHS pavements in Good condition,
- 4. Percentage of non-Interstate NHS pavements in Poor condition,
- 5. Percentage of NHS by deck area classified as in Good condition, and
- 6. Percentage of NHS by deck area classified as in Poor condition

NMDOT PM2:

Performance Measure	4 Year (2021)
Percentage of bridges on the NHS in Good condition	30.0%
Percentage of bridges on the NHS in Poor condition	2.5%
Percentage of Interstate pavements on the NHS in Good condition	59.1%
Percentage of Interstate pavements on the NHS in Poor condition	5.0%
Percentage of Non-Interstate pavements on the NHS in Good condition	34.2%
Percentage of Non-Interstate pavements on the NHS in Poor	
condition	12.0%

TXDOT PM2:

Performance Measure	2022 Target
Pavement on IH	
% in "good" condition	66.4%
% in "poor" condition	0.3%
Pavement on non-IH NHS	
% in "good" condition	52.3%
% in "poor" condition	14.3%
NHS Bridge Deck Condition	
% in "poor" condition	0.80%
% in "good" condition	50.42%



Freight and Air Quality (PM3):

On November 16, 2018 the El Paso MPO adopted the State of Texas Department of Transportation (TXDOT) and New Mexico Department of Transportation (NMDOT) targets for the following Freight and Air Quality measures:

- 1. National Highway System Travel Time Reliability Measures:
 - a. Interstate Reliability
 - b. Non-Interstate Reliability,
- 2. Freight Reliability Measure:
 - a. Truck Travel Time Reliability, and
- 3. Congestion Mitigation and Air Quality (CMAQ):
 - a. Total Emission Reduction Measure

NMDOT PM3:

Performance Measure	2021 Target
NHS Travel Time Reliability	
IH Level of Travel Time	
Reliability	95.1%
Non-IH Level of Travel Time	
Reliability	90.4%
Performance Measure	2021 Target
Truck Travel Time Reliability	1.15
Performance Measure	2021 Target
Total Emission Reduction	

On September 18, 2020 the El Paso MPO's Transportation Policy Board (TPB) updated the 4-year PM-10 target to 3.48 kg/day for the New Mexico portion of the El Paso MPO planning area.



TXDOT PM3:

Performance Measure	2022 Target
NHS Travel Time Reliability	
IH Level of Travel Time	
Reliability	56.6%
Non-IH Level of Travel Time	
Reliability	55.4%
Performance Measure	2022 Target
Performance Measure Truck Travel Time Reliability	2022 Target 1.79
Truck Travel Time Reliability	1.79
Truck Travel Time Reliability Performance Measure	1.79
Truck Travel Time Reliability Performance Measure	1.79
Performance Measure Total Emission Reduction	1.79 2022 Target

On September 18, 2020 the El Paso MPO's Transportation Policy Board (TPB) updated the 4-year PM-10 target to 21.96 kg/day and updated the CO target to 841.62 kg/day for the Texas portion of the El Paso MPO planning area.



Transit Asset Management (TAM):

On September 21, 2018 the Transportation Policy Board approved two new MPO Planning Memorandums of Understanding (MOU), one for Texas and one for New Mexico. The MOU's outline the roles and responsibilities of the states, the MPO, and the mass transit provider, Sun Metro, in carrying out the metropolitan transportation planning process and associated performance measures. Based on the federal performance measure final rule on Transit Asset Management (TAM) issued in July 2016, MPOs are required to coordinate with transit providers to set performance targets and integrate individual transit providers' performance targets and TAM plans into planning documents. El Paso MPO reached out to the transit providers in the region to include Sun Metro the mass transit provider for the region and requested targets. The El Paso MPO Transportation Project Advisory Committee (TPAC) reviewed Sun Metro targets, the state of Texas, and the state of New Mexico targets and recommended that the El Paso MPO Transportation Policy Board (TPB) adopt the state of Texas' targets, as the targets for the El Paso MPO. Sun Metro may have agency-level targets that differ from the El Paso MPO adopted targets. These agency-level targets may better meet their needs in planning for state of good repair for Sun Metro. EPMPO will continue to coordinate with Sun Metro to report, track, and adjust the targets over time to meet the El Paso MPO targets.

El Paso MPO TAM 4 year targets

Performance Measure	Baseline	2020 Target	2022 Target
Transit Asset Management			
% revenue vehicles at or			
exceeding useful life			
benchmark			<15%
% service vehicles (non-			
revenue) at or exceeding			
useful life benchmark			<15%
% facilities rated below 3 on			
condition scale (TERM)			<15%
% track segments with			
performance restrictions			N/A

As part of the FAST Act, performance measures were incorporated for transit agencies, primarily through the Transit Asset Management (TAM) assessment and planning requirements. Sun Metro's TAM plan was developed to meet that requirement. Sun Metro continuously seeks grants through the regional MPO in order to supplement the competitive and formula funding grants available from the FTA. Primarily Sun Metro applies for FHWA Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Program (STP) funding through the MPO. Funding from these grants are crucial to the agency's State of Good Repair (SGR) program and the resulting Transit Asset Management Plan (TAM). CMAQ funds provide for new and replacement bus funding, to include vehicles needed for new and extended services. Funding also allows for new or enhancements of terminals and stops to include accessibility and passenger amenities if associated with new or extended services. STP provides similar funding but without the new or extended service requirements. This grant funding not only permits Sun Metro to provide efficient and dependable service but supplements funding from other sources necessary to maintain SGR standards. In FY2019 CMAQ, the federal funding portion obtained through the regional MPO, will total approximately \$5.5M for operating assistance (Dyer and Alameda BRT's and Streetcar services) plus replacement funding for three buses. As of October 2018 Sun Metro had been awarded approximately \$7.1M of funds for new revenue vehicles that were unspent or pending, including grants obtained through the CMAQ program and other grant programs.

Sun Metros Performance Measures Fix Routes: Adopted by TPB 9/18/20



Performance Measures – Fix Route Per every 100,000 miles		Fiscal Year				
		2019	2020	2021	2022	
FATALITIES		0	0	0	0	
INJURIES		50	45	40	35	
SAFETY EVENTS	Accidents	178	50	45	45	
	Incidents		78	70	65	
	Occurrences		50	45	45	
SYSTEM RELIABILITY (Mean Distance Between Failures)		82864 Miles	90,000 Miles	95000 Miles	100,000 Miles	



Sun Metros Performance Measures Streetcar: Adopted by TPB 9/18/20



Performance Measures – Streetcar Per every 100,000 miles		Fiscal Year				
		2019	2020	2021	2022	
INJURIES		9	7	6	5	
SAFETY EVENTS	Accidents	2	1	1	0	
	Incidents	9	7	6	5	
	Occurrences	9	7	6	5	
SYSTEM RELIABILITY (Mean Distance Between Failures)		2879 hrs.	2900 hrs.	2950 hrs.	3000 hrs.	



Sun Metros Performance Measures Paratransit: Adopted by TPB 9/18/20



Performance Measures – Paratransit Per every 100,000 miles		Fiscal Year				
		2019	2020	2021	2022	
INJURIES		8	8	6	5	
SAFETY EVENTS	Accidents	20	17	15	12	
	Incidents	25	22	19	15	
	Occurrences	32	25	23	20	
SYSTEM RELIABILITY (Mean Distance Between Failures)		87019 miles	88000 miles	90,000 miles	91,000 miles	

