



Sierra Vista Metropolitan Planning Organization

Transportation Improvement Program Fiscal Year 2019 – 2023

Approved: Sierra Vista MPO Board of Directors, July 19, 2018

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Introduction

Overview

The Transportation Improvement Program (TIP), prepared by the Sierra Vista Metropolitan Planning Organization (SVMPO), is a five-year schedule of proposed transportation capital improvements within the SVMPO planning boundary.

The TIP is typically updated annually through a process in association with SVMPO's member jurisdictions or other implementing agencies. The TIP identifies improvements to the regional transportation system including state and local highways, transit, bikeways and pedestrian facilities. Every project that is federally funded, whether highway or transit, must be included in the TIP. The TIP also includes all regionally significant projects funded from non-federal sources.

The FAST ACT

On December 4, 2015, the President signed the Fixing America's Surface Transportation (FAST) Act. The act authorizes expenditures from the Highway Trust Fund for five years (2016-2020), defines how federal funds are to be distributed to states and MPOs, and outlines the funding programs and categories for which federal funding is available. The FAST Act, like its predecessors, contains programs to address transportation needs related to highway, safety, transit, and other alternative modes. The act provides \$305 billion dollars over five years, of which \$3.5 billion is expected to be apportioned to Arizona for transportation projects in our state.

The FAST Act creates a streamlined, performance-based, and multimodal program to address the many challenges facing the U.S. transportation system. These challenges include improving safety, maintaining infrastructure condition, reducing traffic congestion, improving efficiency of the system and freight movement, protecting the environment, and reducing delays in project delivery.

The performance-based component of the FAST Act requires MPOs and state DOTs to work cooperatively to establish performance targets in key areas to help advance national goals. The performance provisions are focused on the areas of: highway safety, highway and bridge conditions, system performance/congestion and transit performance. This process involves the development of performance measures to periodically assess progress towards the established performance targets. To date, highway safety is the only focus area with established performance measures and targets between the State DOT and the MPOs. The performance targets for the remaining focus areas are currently under development.

Board of Directors

The Board of Directors is the policy body of the SVMPO that provides for an inclusive, deliberative process that considers the needs, financial resources and perspectives of all stakeholders. The Board structure creates a regional forum for jurisdictions to come together and work toward common goals. The Board of Directors consists of elected officials from the City of Sierra Vista, Cochise County, Huachuca City and one appointed member of the Arizona Department of Transportation (ADOT).

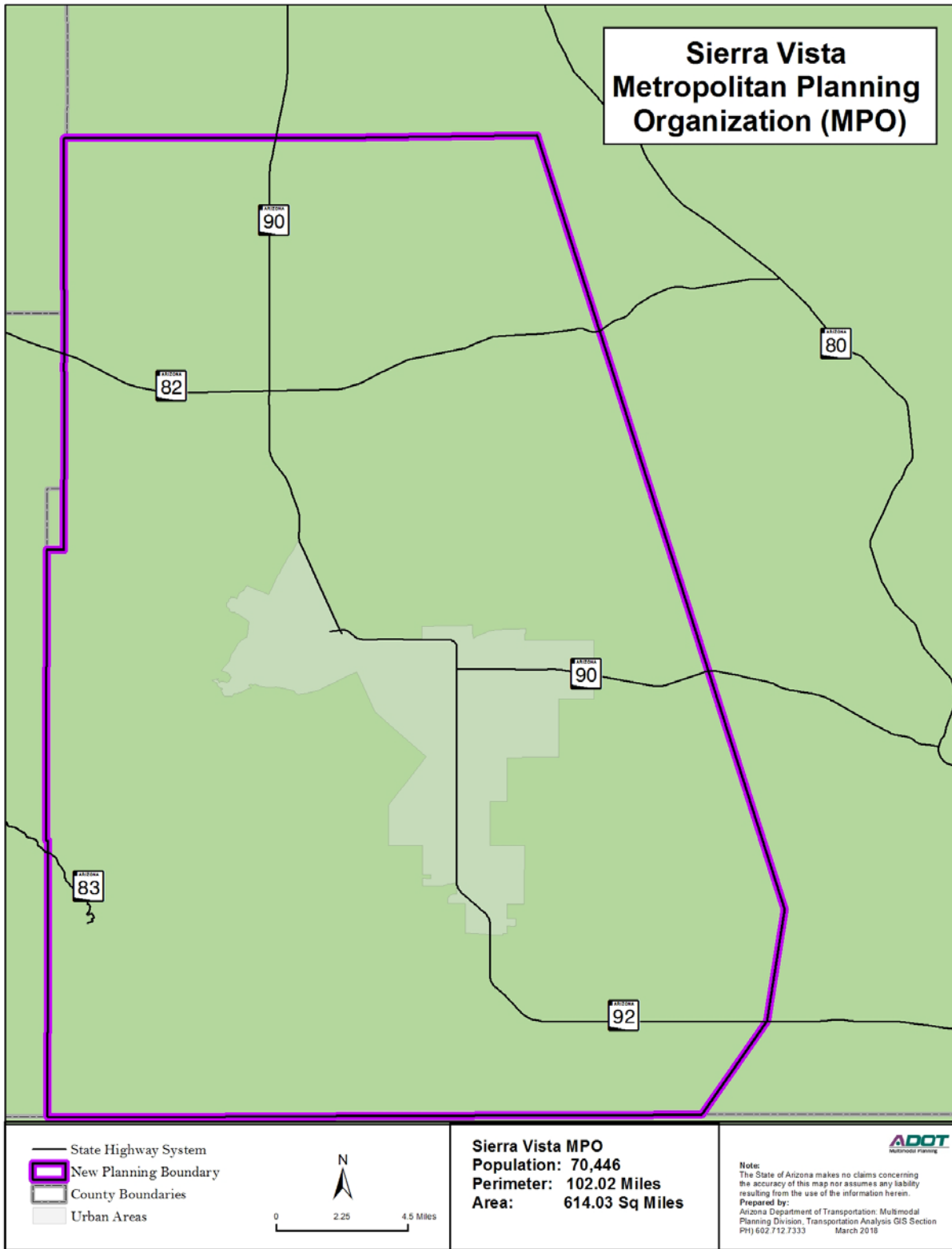
Technical Advisory Committee (TAC)

The TAC consists of six (6) technical and managerial representatives from City of Sierra Vista (3); Cochise County (1); Huachuca City (1); and Arizona Department of Transportation (1). The primary responsibilities of the TAC are to perform technical reviews and analysis regarding transportation and related activities and make recommendations to the Board of Directors.

Geographic Area

The Sierra Vista Urbanized Area is located in southwest Cochise County. The SVMPO is responsible for the continuous, cooperative, and comprehensive transportation planning process for the SVMPO Planning area identified in Figure 1: SVMPO Planning Boundary.

Figure 1: SVMPO Planning Area and Urbanized Boundary



Funding Sources

The SVMPO, as well as any other MPOs in the country, is dependent on federal funding for the operation of the MPO and to perform planning activities which are used to deliver a variety of projects for the region.

Planning Funds (PL) and State Planning & Research Funds (SPR)

The **Arizona Department of Transportation (ADOT)** is the designated recipient of the **Federal-Aid Highway Funds** used for planning and research purposes. ADOT receives State Planning and Research (SPR) funds from **Federal Highways Administration (FHWA)** and utilizes some of these funds with planning agencies to conduct transportation planning activities. Planning Funds (PL) is apportioned to states by population in urbanized areas and relative to the amount of highway construction funds the state receives. SPR funds are discretionary and are typically administered by ADOT to carry out specific technical activities. In the SVMPO region, SPR funds will be used to conduct transportation planning activities and administration of the program. SPR funds require a 20% local match, and PL funds require a 5.7% local match.

Federal Transit Administration (FTA) Funds – Section 5305

Section 5305 funds will be used for transit planning purposes in the Sierra Vista region. Use of Section 5305 funds is allowed for planning and technical studies related to transit. They are allocated from the Federal Transit Administration (FTA), through ADOT, to the regional planning agencies within the State. These funds require a 20% local match.

Surface Transportation Block Grant (STBG)

STP is a federal-aid highway flexible funding program that funds a broad range of surface transportation capital needs including roads, transit, airport access, and bicycle and pedestrian facilities. Transit related planning, research, and development activities are also eligible for the use of STP funds. These funds require a 5.7% local match.

Highway Safety Improvement Program (HSIP) Funds

The Highway Safety Improvement Program (HSIP) is a core Federal-aid program with the purpose to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned roads and roads on tribal land. The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads with a focus on performance. The SVMPO competes for HSIP funding through a statewide HSIP call for projects administered by ADOT.

Federal Transit Administration (FTA) Funds – Sections 5307

Funds for the operation and maintenance of the Vista Transit

HURF Exchange Program

The HURF Exchange Program was created by the Arizona Legislature in 1997 and authorizes ADOT to provide State Highway Funds to eligible entities in exchange for federal surface transportation block grant (STBG) funds. This typically enables eligible cities, towns and counties to build projects faster and cheaper by avoiding expensive and time-consuming federal regulatory requirements. Eligible projects are those with the primary purpose of improving the efficiency and safety of motor vehicle travel on roadways. Projects must be on the federal aid system (major collectors and above) and be eligible for STBG funding.

Process

The Sierra Vista MPO updates the TIP on a regular basis and in doing so strives to include the public in decision-making. Annually, the SVMPO local jurisdictions submit projects for inclusion into the TIP. These projects are reviewed in an open public meeting by the Technical Advisory Committee (TAC). The first four years of the TIP must be fiscally constrained based on expected funding.

Figure 2: TIP Development Process

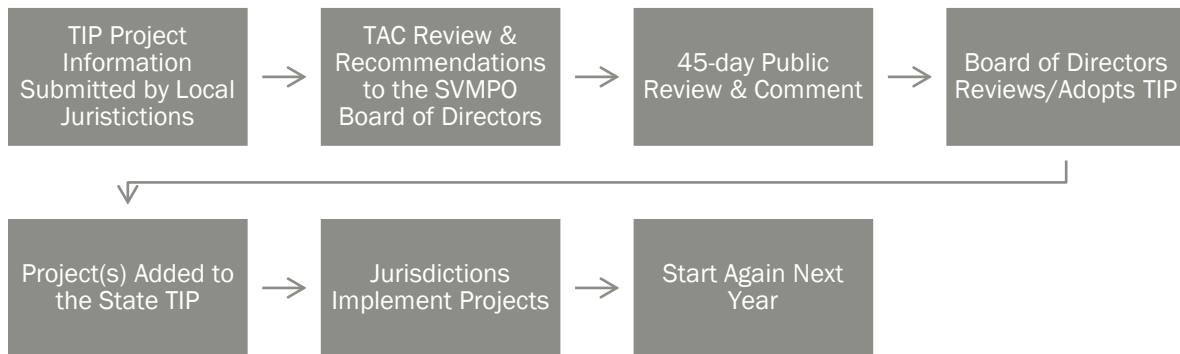


Figure 3: TIP Amendment Process



Safety Performance Targets

On August 31, 2017 the Arizona Department of Transportation (ADOT) formally established safety targets for the state of Arizona for 2018. These safety targets are based on the Safety Performance Measures established by the Federal Highway Administration (FHWA) and are indicators of expected crash results based on five year rolling averages.

FY 2018 Safety targets established by ADOT and adopted by the SVMPO are as follows:

- Number of Fatalities - 4% Increase
- Rate of Fatalities - 2% Increase
- Number of Serious Injuries - 0% Increase
- Rate of Serious Injuries - 1% Decrease
- Number of Non-motorized Fatalities and Serious Injuries - 2% Increase

The safety targets set by ADOT are data-driven and realistic; and are intended to keep the State focused on improving safety while still striving for the goal of the SVMPO Strategic Transportation Safety Plan (STSP) and the State Strategic Highway Safety Plan (SHSP) of reducing the number of fatalities and serious injury crashes in the Sierra Vista MPO region and the state of Arizona.

The Sierra Vista MPO is committed to supporting the established safety targets by doing the following:

- Work with the State and safety stakeholders to address areas of concern for fatalities or serious injuries within the metropolitan planning area.
- Coordinate with the State and include the safety performance measures and HSIP targets for all public roads in the metropolitan area in the Metropolitan Transportation Plan.
- Integrate into the metropolitan transportation planning process, the safety goals, objectives, performance measures and targets described in the Regional Strategic Highway Safety Plan and other State safety transportation plans and processes.

The SVMPO FY2019 – 2023 TIP includes a safety project to install adaptive signal control on two corridors within the city. These safety improvements have an expected crash reduction factor of 21%; resulting in potential reduction of 10 fatal and serious injury crashes over 5 years.

Transit

Vista Transit

Sierra Vista currently has one public service transit operator, Vista Transit. Vista Transit operates throughout the city limits of Sierra Vista and Fort Huachuca with five local fixed routes and two routes on Saturday. Route 6 serves the west end, the mall, and the shopping areas near the Hwy 90/92 intersection. Route 7 provides service to Fort Huachuca. Vista Transit contains an extensive network of bus stops, and its assets include a fleet of 13 buses as well as a centrally located Transit Center built in 2007. Transit in the SVMPO region is characterized by connecting residents to major activity centers within the city

Highway Safety Improvement Program (HSIP) Funds

SVMPO HSIP Ledger		Projected Fed Funds		Cumulative Balance	
Action	OA Rate	Apportionment Cash	OA	Apportionment Cash	OA
FY 2019 Allocation	94.9% *	\$0	\$0	\$0	\$0
Repayment in from ADOT		\$974,435	\$974,435	\$974,435	\$974,435
Sierra Vista Adaptive Signal Control		-\$841,253	-\$841,253	\$133,182	\$133,182
FY 2019 Balance				\$133,182	\$133,182
Starting FY2019, regional HSIP allocation stops and SVMPO competes for HSIP funding through a statewide call for projects administered by ADOT.					

TIP

See attachments

**Sierra Vista Metropolitan Planning Organization
Transportation Improvement Program
FY 2019-2023**

TIP YEAR/NO	PROJECT SPONSOR	PROJECT NAME	PROJECT LOCATION	LENGTH	TYPE OF IMP - WK - STRU	FUNCTIONAL CLASSIFICATION	LANES BEFORE	LANES AFTER	FED AID TYPE	HURF EXCHANGE	FEDERAL FUNDS	LOCAL MATCH	OTHER FUNDS	TOTAL COST
2019														
SVMP018-01	City of Sierra Vista	North Garden/Fry Blvd. Phase 1	North Garden Avenue. Fry Blvd. between North Garden and Fab Ave.	.65 miles	Construction	Minor Arterial	5	3		\$2,285,356		\$0		\$2,285,356
SVMP018-02	City of Sierra Vista	Adaptive Signal Control	Phase 1	N/A	Construction	Urban Collector/Arterial	N/A	N/A	HSIP		\$841,253	\$0		\$841,253
TOTAL FOR 2019										\$2,285,356	\$841,253	\$0	\$0	\$3,126,609
2020														
TBD	TBD											\$0		\$0
TOTAL FOR 2020										\$0	\$0	\$0	\$0	\$0
2021														
TBD	TBD											\$0		\$0
TOTAL FOR 2021										\$0	\$0	\$0	\$0	\$0
2022														
TBD	TBD											\$0		\$0
TOTAL FOR 2022										\$0	\$0	\$0	\$0	\$0
2023														
TBD	TBD											\$0		\$0
TOTAL FOR 2023										\$0	\$0	\$0	\$0	\$0
TOTAL FOR FIVE YEAR PROGRAM										\$938,963	\$0	\$0	\$0	\$3,488,361

Previous	Year Authorization	PROJECT NAME	PROJECT LOCATION	LENGTH	TYPE OF IMP - WK - STRU	FUNCTIONAL CLASSIFICATION	LANES BEFORE	LANES AFTER	FED AID TYPE	HURF EXCHANGE	FEDERAL FUNDS	LOCAL MATCH	OTHER FUNDS	TOTAL COST
SVMP018-01	City of Sierra Vista	North Garden/Fry Blvd. Phase 1	North Garden Avenue. Fry Blvd. between North Garden and Fab Ave.	.65 miles	Design	Minor Arterial	5	3		\$264,042		\$0		\$264,042
SVMP018-02	City of Sierra Vista	Adaptive Signal Control	Phase 1	N/A	Design	Urban Collector/Arterial	N/A	N/A	HSIP		\$97,710	\$0		\$97,710
TOTAL FOR PREVIOUS YEAR (FY18)										\$264,042	\$97,710	\$0	\$0	\$361,752

O & M 2019	PROJECTED MAINTENANCE EXPENDITURES	Jurisdiction	Projected FY 2019	Approval
		City of Sierra Vista	\$2,200,000	SVMP0 TAC Recommended 3/18/2018
		Cochise County	\$8,500,000	SVMP0 EX. BD. Approved 7/19/2018
		Huachuca City	\$155,000	
		Total	\$10,855,000	

SVMPO Transit TIP FY 2019 - 2023

ID #	SPONSOR	PROJECT Description	TYPE WORK	FED AID TYPE	APPORTIONMENT YEAR	FED FUNDING	LOCAL MATCH	TOTAL COST	FED ALI CODE
FISCAL YEAR 2019 (7/1/18 - 6/30/19)									
SVT18-01	City of Sierra Vista	Personnel - Planning	Planning	5307	2016/2017	\$102,277	\$25,569	\$127,846	44.20.00
SVT18-02	City of Sierra Vista	Personnel - Project Administration	Capital	5307	2016/2017	\$24,550	\$6,138	\$30,688	11.79.00
SVT18-03	City of Sierra Vista	Employee Education and Training	Capital	5307	2016/2017	\$2,985	\$746	\$3,731	11.7D.02
SVT18-04	City of Sierra Vista	ADA 10% Provision-ADA Nonfixed route	Capital	5307	2016/2017	\$74,630	\$18,657	\$93,287	11.7C.00
SVT18-05	City of Sierra Vista	Personnel	Operations	5307	2016/2017	\$277,774	\$277,774	\$555,548	30.09.01
SVT18-06	City of Sierra Vista	Other Operating (Fuel and Oil, Utilities etc)	Operations	5307	2016/2017	\$76,849	\$76,849	\$153,697	30.09.01
SVT18-07	City of Sierra Vista	Vehicle Preventative Maintenance	Capital	5307	2016/2017	\$131,600	\$32,900	\$164,500	11.7A.00
	Volunteer Interfaith Caregiver Program	ViCaP Volunteer - Inter and Intra-city Transportation	Operations	5310	2018	\$50,000	\$50,000	\$100,000	
Total Net Expenditure				\$1,229,297					
Estimated Fare Revenues			\$	114,000					
TOTAL GROSS EXPENDITURES			\$	1,343,297					
Fiscal Year Total						\$740,664	\$488,633	\$1,229,297	
FISCAL YEAR 2020 (7/1/19 - 6/30/20)									
SVT19-01	City of Sierra Vista	Personnel	Planning	5307	2016/2017	\$76,000	\$19,000	\$95,000	44.20.00
SVT19-02	City of Sierra Vista	Other Expenses (Travel and Training)	Planning	5307	2016/2017	\$8,000	\$2,000	\$10,000	44.20.00
SVT19-03	City of Sierra Vista	Planning- Projects	Planning	5307	2016/2017	\$0	\$0	\$0	
SVT19-04	City of Sierra Vista	Personnell	Operations	5307	2016/2017	\$365,000	\$365,000	\$730,000	30.09.01
SVT19-05	City of Sierra Vista	Other Operating (Fuel and Oil, Utilities etc)	Operations	5307	2016/2017	\$142,500	\$142,500	\$285,000	30.09.01
SVT19-06	City of Sierra Vista	Replacement Rolling Stock (2)	Capital	5307	2016/2017	\$296,000	\$74,000	\$370,000	11.12.04
SVT19-07	City of Sierra Vista	Vehicle Preventative Maintenance	Capital	5307	2016/2017	\$132,000	\$33,000	\$165,000	11.7A.00
SVT19-08	City of Sierra Vista	Expansion Rolling Stock	Capital	5307	2016/2017	\$144,000	\$36,000	\$180,000	11.42.20
SVT19-09	City of Sierra Vista	Bus Shelters	Capital	5307	2016/2017	\$20,000	\$5,000	\$25,000	11.33.10
SVT19-10	City of Sierra Vista	Bus Pull Out Construction	Capital	5307	2016/2017	\$112,000	\$28,000	\$140,000	11.33.02
Fiscal Year Total						\$1,295,500	\$704,500	\$2,000,000	
FISCAL YEAR 2021 (7/1/20 - 6/30/21)									
SVT20-01	City of Sierra Vista	Personnel	Planning	5307	2017/2018	\$76,000	\$19,000	\$95,000	44.20.00
SVT20-02	City of Sierra Vista	Other Expenses (Travel and Training)	Planning	5307	2017/2018	\$8,000	\$2,000	\$10,000	44.20.00
SVT20-03	City of Sierra Vista	Planning- Projects	Planning	5307	2017/2018	\$0	\$0	\$0	
SVT20-04	City of Sierra Vista	Personnell	Operations	5307	2017/2018	\$365,000	\$365,000	\$730,000	30.09.01
SVT20-05	City of Sierra Vista	Other Operating (Fuel and Oil, Utilities etc)	Operations	5307	2017/2018	\$142,500	\$142,500	\$285,000	30.09.01
SVT20-06	City of Sierra Vista	Replacement Rolling Stock (2)	Capital	5307	2017/2018	\$296,000	\$74,000	\$370,000	11.12.04
SVT20-07	City of Sierra Vista	Vehicle Preventative Maintenance	Capital	5307	2017/2018	\$132,000	\$33,000	\$165,000	11.7A.00
SVT20-08	City of Sierra Vista	Expansion Rolling Stock	Capital	5307	2017/2018	\$144,000	\$36,000	\$180,000	11.42.20
SVT20-09	City of Sierra Vista	Bus Shelters	Capital	5307	2017/2018	\$20,000	\$5,000	\$25,000	11.33.10
Fiscal Year Total						\$1,183,500	\$676,500	\$1,860,000	

SVMPO Transit TIP FY 2019 - 2023

ID #	SPONSOR	PROJECT Description	TYPE WORK	FED AID TYPE	APPORTIONMENT YEAR	FED FUNDING	LOCAL MATCH	TOTAL COST	FED ALI CODE
FISCAL YEAR 2022 (7/1/21 - 6/30/22)									
SVT21-01	City of Sierra Vista	Personnel	Planning	5307	2018/2019	\$80,000	\$20,000	\$100,000	44.20.00
SVT21-02	City of Sierra Vista	Other Expenses (Travel and Training)	Planning	5307	2018/2019	\$9,600	\$2,400	\$12,000	44.20.00
SVT21-03	City of Sierra Vista	Planning- Projects	Planning	5307	2018/2019	\$16,000	\$4,000	\$20,000	44.20.00
SVT21-04	City of Sierra Vista	Personnell	Operations	5307	2018/2019	\$367,500	\$367,500	\$735,000	30.09.01
SVT21-05	City of Sierra Vista	Other Operating (Fuel and Oil, Utilities etc)	Operations	5307	2018/2019	\$145,000	\$145,000	\$290,000	30.09.01
SVT21-06	City of Sierra Vista	Replacement Rolling Stock	Capital	5307	2018/2019	\$160,000	\$40,000	\$200,000	11.12.04
SVT21-07	City of Sierra Vista	Vehicle Preventative Maintenance	Capital	5307	2018/2019	\$136,000	\$34,000	\$170,000	11.7A.00
SVT21-08	City of Sierra Vista	Expansion Rolling Stock	Capital	5307	2018/2019	\$160,000	\$40,000	\$200,000	11.42.20
SVT21-09	City of Sierra Vista	Bus Shelters	Capital	5307	2018/2019	\$20,000	\$5,000	\$25,000	11.33.10
Fiscal Year Total						\$1,094,100	\$657,900	\$1,752,000	
FISCAL YEAR 2023 (7/1/22 - 6/30/23)									
SVT21-01	City of Sierra Vista	Personnel	Planning	5307	2019/2020	\$80,000	\$20,000	\$100,000	44.20.00
SVT21-02	City of Sierra Vista	Other Expenses (Travel and Training)	Planning	5307	2019/2020	\$9,600	\$2,400	\$12,000	44.20.00
SVT21-03	City of Sierra Vista	Planning- Projects	Planning	5307	2019/2020	\$16,000	\$4,000	\$20,000	44.20.00
SVT21-04	City of Sierra Vista	Personnell	Operations	5307	2019/2020	\$367,500	\$367,500	\$735,000	30.09.01
SVT21-05	City of Sierra Vista	Other Operating (Fuel and Oil, Utilities etc)	Operations	5307	2019/2020	\$145,000	\$145,000	\$290,000	30.09.01
SVT21-06	City of Sierra Vista	Replacement Rolling Stock	Capital	5307	2019/2020	\$160,000	\$40,000	\$200,000	11.12.04
SVT21-07	City of Sierra Vista	Vehicle Preventative Maintenance	Capital	5307	2019/2020	\$136,000	\$34,000	\$170,000	11.7A.00
SVT21-08	City of Sierra Vista	Expansion Rolling Stock	Capital	5307	2019/2020	\$160,000	\$40,000	\$200,000	11.42.20
SVT21-09	City of Sierra Vista	Bus Shelters	Capital	5307	2019/2020	\$20,000	\$5,000	\$25,000	11.33.10
Fiscal Year Total						\$1,094,100	\$657,900	\$1,752,000	