



Maricopa County
Department of Transportation

Transportation Improvement Program

Fiscal Years 2017-2021



Introduction

The Maricopa County Department of Transportation (MCDOT) plans, designs, builds, maintains and operates roadways within Maricopa County in order to provide connections that improve people's lives. MCDOT is responsible for 2,500 miles of roadway, 418 bridges and structures, 143 traffic signals and more than 50,000 traffic signs.

The MCDOT Transportation Improvement Program (TIP) is a five-year financial and planning tool that contains transportation system improvements for the County. These improvements include new or improved roadways, bridges, drainage structures, intersections, intelligent transportation systems and more.

Fiscal Year 2016 Accomplishments

The 2016-2020 TIP identified several projects that MCDOT has completed or continues to advance. Highlights of Fiscal Year 2016 accomplishments include:

- Award of construction contracts for improvements at 29 project locations, totaling \$30 million.
- Preservation of 50 lane miles through resurfacing projects
- Completion of 20 construction projects, including the following improvements:
 - Scour protection of six box culverts in Anthem
 - Two ITS improvements on RH Johnson Blvd and MC85
 - Three Traffic Signal and Intersection Improvement projects
 - Bike Lane additions on McDowell Rd, 76th St to Usery Pass Rd
 - Three pavement preservation resurfacing projects
 - Four Low Volume Road projects
 - Three Local Road Rehabilitation projects
 - Three Traffic Safety projects (two sight distance improvements and one traffic calming)

MCDOT installed a new flashing beacon system at 99th Avenue and Cameo Drive in Sun City. The system is the first of its kind on a Maricopa County road.

MCDOT also used green technology known as hot-in-place asphalt, a process which mills and collects the old asphalt, mixes the old asphalt with additional asphalt emulsion and places it back on the surface in one continuous operation. MCDOT is continually looking for green opportunities in its projects and operations.



Hot-in-place paving on Patton Road



New flashing beacon system at 99th Avenue and Cameo Drive in Sun City

TIP Development

The TIP is developed annually by analyzing previously budgeted/scheduled projects based upon project cost, commitment of financial partners and available funding. New projects are identified from the long-range transportation plan, operational and safety considerations, and requests from stakeholders and the public. These projects are reviewed and ranked through the Project Rating System which ranks projects based on five criteria:

Traffic Congestion (30%): Traffic volumes (Average Daily Traffic - ADT) are compared to a roadway's level of service expectation to define the volume to standard (V/S) ratio for both existing and future conditions.

Safety (25%): The crash rate is calculated using the latest three years of crash data provided by the Arizona Department of Transportation on County roadways. The number of crashes is then averaged based upon the number of County owned roadway miles.

Cost/Benefit (22%): The estimated project cost, length of roadway to be improved, and number of users anticipated to benefit from the improvement are combined to determine an estimated cost per vehicle miles of travel.

Land Use (12%): The roadway type and category of adjacent land use is defined based on the adopted Transportation System Plan and the Major Streets and Routes Plan.

Regional Travel (11%): The role the project plays in supporting regional travel is determined based on the percent of all trips on the roadway segment that are more than 10 miles long.

Projects receiving the highest rating are considered for inclusion in the TIP. Once a project has been officially included in the TIP, a project schedule and forecasted budget of up to five years is developed. Projects with funding identified in the first year of the TIP are part of the annually adopted County budget. The TIP also outlines projects that are being planned for years two through five of the five-year plan.



Roadway widening on Riggs Road.

Fiscal Year 2017-2021 Funding Estimates

MCDOT receives funding for the TIP from local, regional, state and federal sources. The projected revenue for the five year TIP forecast is \$509 million with planned expenditures of \$507 million, which includes \$96 million available for new projects.

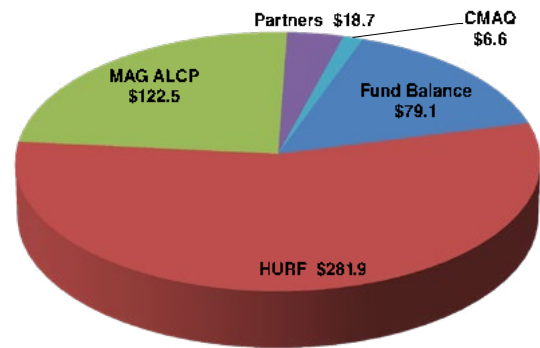
The primary source of funding is the state Highway User Revenue Fund (HURF). The state of Arizona collects a variety of taxes, fees and charges including gasoline and use-fuel taxes, motor-carrier taxes, vehicle-license taxes, motor vehicle registration fees and other miscellaneous fees. These funds are distributed to cities and counties through a distribution formula.

The second largest source of funding is the Maricopa Association of Governments (MAG) Arterial Life Cycle Program (ALCP). In November 2004, Maricopa County voters passed Proposition 400 which authorized the collection of a half-cent sales tax for transportation. A portion of the tax (10.5%) is allocated for major arterial street and intersection improvements. MAG ALCP funding is for specific projects and includes both the half-cent sales tax funds and federal transportation funds. MAG ALCP projects account for the majority of TIP expenditures.

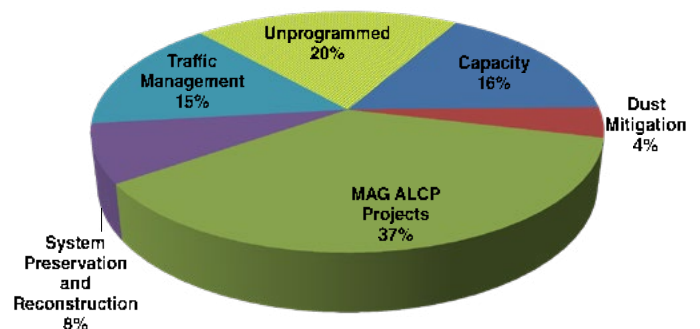
Another source of TIP funding comes from local partnerships. MCDOT works cooperatively with the County's 25 cities and towns, as well as, other local stakeholders to meet the transportation needs of its residents. This includes entering in to Intergovernmental Agreements to share costs and resources on joint roadway projects. In fiscal year 2017, Maricopa County's project partners are projected to contribute \$18.7 million to specific projects in the TIP.

MCDOT also receives federal funding for Congestion Management and Air Quality (CMAQ) which is used to pave dirt roads in order to reduce particulates and improve air quality. Additional TIP funding may become available for future year expenditures if projects are completed for less than the programmed amount, revenue is generated by the sale of excess property or additional funds become available from an unexpected increase in one of the above listed funding sources.

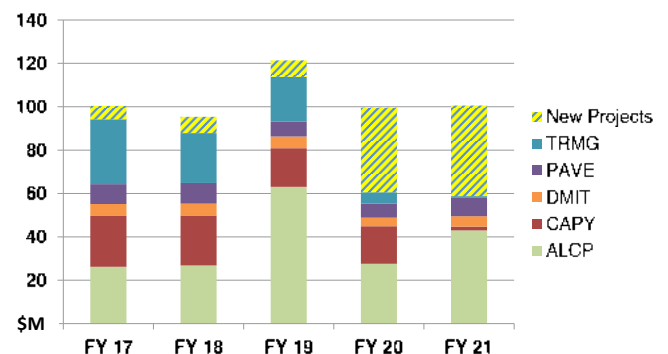
FY 2017 -2021 Revenues



FY 2017 -2021 Expenditures



\$96 Million Available for New Projects



Fiscal Year 2017-2021 Transportation Improvement Program

The TIP for Fiscal Year 2017-2021 is grouped into five project type categories:

Capacity Enhancement Projects (CAPY): Capacity projects add additional travel lanes to existing roads or construct new roadways and bridges so residents will have a more reliable commute.

Dust Mitigation (DMIT): Dust mitigation projects pave dirt roads with the goal of reducing fugitive dust and improving public health.

MAG Arterial Life Cycle Projects (ALCP): The ALCP implements arterial street projects in the MAG Regional Transportation Plan funded by a combination of funding sources and partner contributions.

System Preservation and Reconstruction (SPAR): Pavement and bridge preservation projects extend the useful life of the roadway system.

Transportation System Management (TMAN): This group of projects allows the system to function more efficiently and safely by installing new traffic signals, adding turning lanes and using technology to improve traffic flow thereby increasing capacity and reducing travel time. Transportation System Management also includes necessary system improvements such as acquisition of right-of-way and partnering with other agency on projects.

Each year funds are set aside for new projects to begin the scoping process in addition to the previously budgeted TIP project funds. A total of \$96 million has been allocated for new projects during the fiscal year 2017 five-year TIP. Complex projects may require more than five years to move from scoping to completion. MCDOT reserves some funding for the last two years of the program to make adjustments. This allows MCDOT to make maximum uses of available funds as new partnerships develop and are finalized or unexpected needs arise.



Dynamic Message Sign on Bell Road.

Capacity Enhancements (CAPY)

Capacity Enhancement projects add additional travel lanes to existing roads or construct new roadways and bridges so commuters will have a faster, safer commute.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0483	5	35th Avenue	Baseline Road to Southern Avenue	1	Contribute to City of Phoenix Project	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	535	-	-	-	-	535	-	-
						Project Total	535	-	-	-	-	535	535	-
TT0248	4	Deer Valley Road	El Mirage Road at Williams to 109th Avenue at Deer Valley Road	2	New 5-lane road and two new bridges	Scoping	-	-	-	-	-	-	-	-
						Design	300	60	-	-	-	-	-	-
						Right-of-way	2,500	-	-	-	-	-	-	-
						Utility Relocation	800	-	-	-	-	-	-	-
						Environmental	300	200	-	-	-	-	-	-
						Construction	-	-	11,275	13,897	-	25,172	-	-
						Project Total	3,900	260	11,275	13,897	-	29,332	29,332	-
TT0538	1	Riggs Road	Crismon Road to Meridian Road	2	Construct new three lane road	Scoping	-	-	-	-	-	-	-	-
						Design	-	30	5	-	-	-	-	-
						Right-of-way	-	3,810	-	-	-	-	-	-
						Utility Relocation	-	1,500	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	-	-	2,926	-	-	-	-	-
						Project Total	-	5,340	2,931	-	-	8,271	8,271	-
TT0406	1	Riggs Road	Power Road to Hawes Road	1	Widen from two lanes to four lanes with center turn lane	Scoping	-	-	-	-	-	-	-	-
						Design	15	-	-	-	-	-	-	-
						Right-of-way	550	-	-	-	-	-	-	-
						Utility Relocation	2,500	-	-	-	-	-	-	-
						Environmental	5	-	-	-	-	-	-	-
						Construction	-	10,010	-	-	-	-	-	-
						Project Total	3,070	10,010	-	-	-	13,080	13,080	-
TT0375	1	Riggs Road	Hawes Road to Ellsworth Road	2	Widen from two lanes to six lanes with center turn lane	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	3,108	-	-	-	-	-	-	-
						Project Total	3,108	-	-	-	-	3,108	3,108	-
TT0429	1	Riggs Road	Recker Road to Power Road	1	Widen from two lanes to six lanes with center turn lane	Scoping	-	-	-	-	-	-	-	-
						Design	10	-	-	-	-	-	-	-
						Right-of-way	50	-	-	-	-	-	-	-
						Utility Relocation	1,600	-	-	-	-	-	-	-
						Environmental	5	-	-	-	-	-	-	-
						Construction	3,905	245	-	-	-	-	-	-
						Project Total	5,570	245	-	-	-	5,815	5,815	-

Capacity Enhancements (CAPY) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0251	1	Riggs Road	Ellsworth to Crismon	1	Construct new three lane road	Scoping	-	-	-	-	-	-	-	-
						Design	300	-	-	-	-	300	-	-
						Right-of-way	1,000	-	-	-	-	1,000	-	-
						Utility Relocation	3,110	-	-	-	-	3,110	-	-
						Environmental	20	5	-	-	-	25	-	-
						Construction	-	4,165	-	-	-	4,165	-	-
						Project Total	4,430	4,170	-	-	-	8,600	4,533	4,068
TT0430	1	Rittenhouse Road	At Queen Creek Wash	0.26	Replace existing bridge with four lane box culvert	Scoping	-	-	-	-	-	-	-	-
						Design	10	-	-	-	-	10	-	-
						Right-of-way	80	200	200	-	-	480	-	-
						Utility Relocation	-	60	-	-	-	60	-	-
						Environmental	-	-	25	-	-	25	-	-
						Construction	-	-	880	880	-	1,760	-	-
						Project Total	90	260	1,105	880	-	2,335	2,335	-
TT0003	Various	To Be Determined	To Be Determined	TBD	Special Project Fund Reserve for Transportation Advisory Board Selected Projects	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	1,510	1,510	1,510	1,510	1,510	7,550	-	-
						Project Total	1,510	1,510	1,510	1,510	1,510	7,550	7,550	-
					Total		22,213	21,795	16,821	16,287	1,510	78,626	74,559	4,068

Dust Mitigation (DMIT)

Dust Mitigation projects pave dirt roads to reduce dust pollution primarily within the non-attainment area for travelers and citizens so that dust related health problems are reduced and to ensure compliance with federal mandates. The benefit to the public is that it reduces fugitive dust particulates improving public health and making the roads safer to travel.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding			
TT0457	3	10th Street and Dove Valley Road	10th Street from Dove Valley Road to Paint Your Wagon Trail; and Dove Valley Road from 10th Street to 14th Street	1	Pave the listed dirt roads to reduce dust	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 10 - 50 - - 60	- - - - 10 1,775	- - - - - -	- - - - - -	- - - - - -	- - - - - 1,775	- - - - - -	- - - - - 1,845	732	1,113	
TT0458	5	31st Avenue	Olney Avenue to McNeil Street	0.12	Pave the listed dirt road to reduce dust	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 10 90 50 - - 150	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	150	-
TT0526	1	Appleby Road	Arizona Avenue to 3400 ft east of Arizona Avenue	0.65	Pave the listed dirt road to reduce dust	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - 567 567	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - 567	- - - - - -	- - - - - -	- - - - - -	567	-
TT0515	2	Deer Trail Road	Old Mine Road to Cave Creek Road.	0.3	Pave the listed dirt road to reduce dust	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 30 30 - - 890 950	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	950	-
TT0433	4	Dove Valley Area	167th Ave: Dixeleta Dr-Windstone Trail, 168th Ave: Dixeleta Dr-Dove Wing Way, Montgomery Rd: 171st -163rd Ave, White Wing Rd: 171st - 163rd Ave.	2.5	Pave the listed dirt roads to reduce dust	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - 1,310 1,310	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - 1,310	- - - - - -	- - - - - -	- - - - - -	1,310	-
TT0544	1	Hunt Hwy and Old Price Rd	Hunt Highway: Dobson Road to Old Price Road; Old Price Road: Hunt Highway to Riggs Road	2	Feasibility Study	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	110 - - - - - 110	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	110	-

Dust Mitigation (DMIT) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0338	4	Miller Road	I-10 to one mile north	1	Pave dirt road	Scoping	-	-	-	-	-	-	-	-
						Design	155	15	-	-	-	-	-	170
						Right-of-way	40	-	-	-	-	-	-	40
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	120	-	-	-	-	-	-	120
						Construction	-	-	1,439	-	-	-	-	1,439
						Project Total	275	55	1,439	-	-	1,769	790	979
TT0456	3	New River Area	3rd Avenue from Honda Bow Road to Circle Mountain Road; 7th Avenue from Honda Bow Road to Leann Road; and Cavalry Road from 7th Avenue to 3rd Avenue	1.7	Pave the listed dirt roads to reduce dust	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	10	-	-	-	-	-	-	10
						Environmental	10	-	-	-	-	-	-	10
						Construction	1,200	-	-	-	-	-	-	1,200
						Project Total	1,220	-	-	-	-	1,220	218	1,002
TT0453	4	Rockaway Hills Road	255th Avenue to 251st Avenue	0.5	Pave the listed dirt road to reduce dust	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	415	-	-	-	-	-	-	415
						Project Total	415	-	-	-	-	415	415	-
						Total	5,057	1,840	1,439	-	-	8,336	5,242	3,094

MAG Arterial Life Cycle Program Projects (ALCP)

The Arterial Life Cycle Program (ALCP) projects are contained in the Regional Transportation Plan (RTP) voted on by citizens of Maricopa County in 2004. The ALCP funding is a combination of Regional Area Road Funds (RARF), MAG Surface Transportation Program funds (STP-MAG), Congestion Mitigation and Air Quality (CMAQ) funds, County Highway User Revenue Funds (HURF) and partner contributions. (As shown in the MAG ALCP)

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0498	4	Butler Drive and 129th Avenue alignments	Butler Drive from Dysart Road to the 127th Avenue alignment; and on the 129th Avenue alignment from the new Butler Drive to Northern Parkway	0.7	Construct new two lane roadway	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	390	5	-	-	395	
						Right-of-way	-	-	-	-	-	-	-	
						Utility Relocation	-	-	-	-	-	-		
						Environmental	-	-	-	-	-	-		
						Construction	-	-	-	-	2,884	-	-	
Project Total						-	-	390	5	2,884	3,279	364	2,915	
TT0199	1,2	Dobson Road	At Salt River	1.3	New 4-lane Bridge	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	100	75	-	175	
						Right-of-way	-	-	-	4,000	-	-	4,000	
						Utility Relocation	-	-	-	-	700	-	700	
						Environmental	-	-	-	-	-	-	-	
						Construction	-	-	-	-	19,800	-	19,800	
Project Total						-	-	-	4,100	20,575	24,675	8,989	15,686	
TT0367	4	El Mirage Road	Northern Parkway to 1500 ft south of Peoria Avenue	1.8	Widen from two lanes to six lanes with center turn lane	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	
						Right-of-way	-	-	-	-	-	-	-	
						Utility Relocation	-	-	-	-	-	-	-	
						Environmental	-	-	-	-	-	-	-	
						Construction	8,295	2,270	-	-	-	-	10,565	
Project Total						8,295	2,270	-	-	-	10,565	2,776	7,789	
TT0339	1,2	Gilbert Rd	At Salt River	1.8	New 4-lane Bridge	Scoping	-	-	-	-	-	-	-	-
						Design	2,525	-	-	-	-	-	2,525	
						Right-of-way	-	-	-	-	-	-	-	
						Utility Relocation	-	-	-	-	-	-	-	
						Environmental	20	-	-	-	-	-	20	
						Construction	-	11,625	11,600	-	-	-	23,225	
Project Total						2,545	11,625	11,600	-	-	25,770	13,165	12,605	
TT0441	1	Gilbert Road	Queen Creek Road to Hunt Highway	4.0	Contribute to City of Chandler Project to widen to four lanes	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	
						Right-of-way	-	-	-	-	-	-	-	
						Utility Relocation	-	-	-	-	-	-	-	
						Environmental	-	-	-	-	-	-	-	
						Construction	1,037	-	-	-	-	-	1,037	
Project Total						1,037	-	-	-	-	1,037	1,037	-	

MAG Arterial Life Cycle Program Projects (ALCP) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0342	2	McKellips Rd	SR 101 to Alma School	2.0	Add median, curb and gutter to existing 4-lane road	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - -	- - - - - -	- 850 1,200 750 7,480 -	- 100 - - 3,300 -	- - - - - -	- 950 1,200 750 10,780 -	- - - - - 5,644	- - - - - 8,036
TT0442	1	McQueen Road	Ocotillo Road to Riggs Road	2.0	Contribute to City of Chandler Project to widen to four lanes	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - 309	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - 309	- - - - - 309	- - - - - -
TT0427	4	Northern Parkway	At Dysart Road	0.6	Construct six lane overpass	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 479 - - - -	- 420 - - - -	- - - - 10,526 -	- - - - - -	- - - - - -	- 899 - - - 10,526 -	- - - - - 713	- - - - - 10,712
TT0195	4	Northern Parkway	Sarival to Dysart	4.0	Right-of-way Acquisition	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 40 3,500 - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- 40 3,500 - - - -	- - - - - 3,540	- - - - - -
TT0347	4	Northern Parkway	Dysart Road to 111th Avenue	4.0	Widen from two to four lanes	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 825 6,000 60 30 6,915	- - - - 10,050 10,050	- - - - 20,840 20,840	- - - - - -	- - - - - -	- 825 6,000 60 30,920 37,805	- - - - - 461	- - - - - 37,344

MAG Arterial Life Cycle Program Projects (ALCP) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0372	4	Northern Parkway	At Loop 101	1.6	Widen from four lanes to six lanes with dual left turn lanes	Scoping	-	-	-	-	-	-	-	-
					Design	375	375	-	-	-	-	-	-	750
					Right-of-way	25	25	1,800	-	-	-	1,850	-	-
					Utility Relocation	-	300	2,000	-	-	-	2,300	-	-
					Environmental	-	-	-	-	-	-	-	-	-
					Construction	-	-	-	7,230	-	-	7,230	-	-
					Project Total		400	700	3,800	7,230	-	12,130	1,942	10,188
TT0499	4	Northern Parkway	At El Mirage Road	0.6	Construct six lane overpass	Scoping	-	-	-	-	-	-	-	-
					Design	-	-	2,312	-	-	-	2,312	-	-
					Right-of-way	-	-	-	-	-	-	-	-	-
					Utility Relocation	-	-	-	-	-	-	-	-	-
					Environmental	-	-	-	-	-	-	-	-	-
					Construction	-	-	-	10,410	18,075	-	28,485	-	-
					Project Total		-	-	2,312	10,410	18,075	30,797	2,783	28,014
TT0443	1	Ocotillo Road	Arizona Avenue to McQueen Road	1.0	Contribute to City of Chandler Project to widen to four lanes	Scoping	-	-	-	-	-	-	-	-
					Design	-	-	-	-	-	-	-	-	-
					Right-of-way	-	-	-	-	-	-	-	-	-
					Utility Relocation	-	-	-	-	-	-	-	-	-
					Environmental	-	-	-	-	-	-	-	-	-
					Construction	1,120	-	-	-	-	-	1,120	-	-
					Project Total		1,120	-	-	-	-	1,120	1,120	-
Total							24,640	25,065	59,747	25,145	41,534	176,132	42,843	133,289

System Preservation and Reconstruction (SPAR)

Pavement Preservation projects resurface roads to extend their useful life and provide a smoother safer surface for motorists.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0545	3	24th Street	Carefree Highway to Joy Ranch	2.0	Mill and overlay with rubberized asphalt	Scoping	-	-	-	-	-	-	-	-
						Design	3	-	-	-	-	3	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	477	-	-	-	-	477	-	-
						Project Total	480	-	-	-	-	480	480	-
TT0348	2	Bush Highway	Mesa City Limits to 1200 feet south of SR 87	15.7	Overlay roadway, extend 7 culverts, replace guardrail	Scoping	-	-	-	-	-	-	-	-
						Design	400	345	-	-	-	745	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	10	-	-	-	-	10	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	3,350	2,775	-	-	-	6,125	-	-
						Project Total	3,760	3,120	-	-	-	6,880	6,880	-
TT0440	4	Cotton Lane and Bethany Home Road and on Bethany Home Road Cotton Lane to SR 303		1.5	Repair damage from use as haul road for SR 303 construction as required	Scoping	-	-	-	-	-	-	-	-
						Design	-	-	-	-	-	-	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	-	-	325	-	-	325	325	-
						Project Total	-	-	325	-	-	325	325	-
TT0547	1,4,5	Hawes Road; Higley Road; McQueen Road; San Tan Boulevard; Baseline Road; Elliot Road; Jackrabbit Trail; Tuthill road; and, Yuma Road	See Note 1 below	-	Mill and overlay with rubberized asphalt	Scoping	-	-	-	-	-	-	-	-
						Design	5	-	-	-	-	5	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	1,878	-	-	-	-	1,878	-	-
						Project Total	1,883	-	-	-	-	1,883	1,883	-
TT0546	4,5	McDowell Road; 163rd Avenue; 195th Avenue; Dysart Rd; 35th Avenue; Baseline Road; Avondale Boulevard; and Southern Avenue	See Note 3 below	7.8	Mill and overlay with rubberized asphalt	Scoping	-	-	-	-	-	-	-	-
						Design	5	-	-	-	-	5	-	-
						Right-of-way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	2,131	-	-	-	-	2,131	-	-
						Project Total	2,136	-	-	-	-	2,136	2,136	-

System Preservation and Reconstruction (SPAR) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0549	4	Palo Verde Road	At Roosevelt Irrigation District Canal	0.1	Scoping Study to repair or replace bridge	Scoping Design	98	-	-	-	-	98	-	-
						Right-of-Way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	-	-	-	-	-	-	-	-
Project Total							98	-	-	-	-	98	98	-
TT0478	1,2	Southwest Arterials	See Note 2 below	4.6	Mill and overlay with rubberized asphalt	Scoping Design	-	-	-	-	-	-	-	-
						Right-of-Way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	1,170	-	-	-	-	1,170	-	-
Project Total							1,170	-	-	-	-	1,170	1,170	-
TT0477	All	To be Determined	To be Determined	TBD	Reserve funding for to be designated roads to be overlaid	Scoping Design	-	-	-	-	-	-	-	-
						Right-of-Way	-	-	-	-	-	-	-	-
						Utility Relocation	-	-	-	-	-	-	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	3,630	5,800	6,000	6,000	8,000	29,430	-	-
Project Total							3,630	5,800	6,000	6,000	8,000	29,430	29,430	-
Total							13,157	8,920	6,325	6,000	8,000	42,402	42,402	-

Notes

1. TT0547 - Hawes Road: Empire to Riggs Road; Higley Road: Hunt Highway to Happy Road; McQueen Road: Hunt Highway to 1/4 mile north; San Tan Boulevard: Hawes Road to Ellsworth Road; Baseline Road: 1st Avenue to MC 85; Elliot Road: Tuthill to Rainbow Valley Road; Jackrabbit Trail: Broadway to Yuma Road; Tuthill Road: Ray Road to Elliot Road; and, Yuma Road: Roosevelt Canal to Jackrabbit Trail and 181st Avenue to Citrus Road
2. TT0478 - 67th Avenue: Baseline to Southern; 91st Avenue: Roser to 1/2 mile north; Broadway Road: 91st Ave to 83rd Ave; Dobbins Road: 51st Ave to 43rd Ave; 40th Dr to 43rd Glen; and Southern Avenue: 67th Ave to 59th Ave
3. TT0546 - McDowell: 1769 ft east of 99th Avenue to 93rd Avenue; 163 Avenue: Windstone Trail to 4875 ft north of White Wing Road; 195th Avenue McDowell to Thomas; Dysart Road: Las Cruces Drive to 289 ft north of Nueva; 35th Avenue: Start of Road to Carver; Baseline Road: 2636 ft east of 75th Avenue to 67th Avenue; and, Southern Avenue: 75th Avenue to 67th Avenue, 411 ft east of 50th Avenue to 324 ft east of 47th Avenue, and Avondale Boulevard to 107th Avenue

Transportation System Management (TMAN)

Transportation System Management projects allow the system to function more efficiently and safely by replacing obsolete equipment, installing new traffic signals, adding turning lanes, and using technology to improve traffic flow thereby increasing capacity, reducing travel time and providing a safer commute.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding		
TT0391	5	Avondale Boulevard	At Maricopa Highway 85	0.1	Railroad crossing upgrade, additional turn lanes, and sidewalk	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - 116 116	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - 116	- - - - - - 116	- - - - - - 116	-	
TT0447	4	Bell Road and Frank Lloyd Wright Boulevard	Cotton Lane to Thompson Peak Parkway	64	Install a signal timing system at 52 intersections to respond to the varying traffic conditions	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 5 - - - 2,327 2,332	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - 2,327	- - - - - - 2,332	- - - - - - 17	- - - - - - 2,315	-
TT0533	5	Broadway Road	At 75th Avenue	0.1	Signal Installation	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	22 - - - - - 22	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - 22	- - - - - - 22	- - - - - - 22	-	
TT0424	3	Dynamite Boulevard	At 52nd Street	0.1	Signal Installation	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- 15 - - - 195 210	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - 195	- - - - - - 210	- - - - - - 210	-	
TT0466	3,5	Indian School Road, McDowell Road, and Daisy Mountain Road	Indian School Rd from 99th Ave to SR101; McDowell Rd from 92nd St to SR101; and, Daisy Mountain Rd from	1.7	Install conduit, pull boxes and fiber optic cable to connect existing MCDOT Traffic Signals to the Regional Community Network	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - 490 490	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - 490	- - - - - - 490	- - - - - - 490	-	
TT0490	5	Lower Buckeye Road	At 107th Avenue	0.1	Install Traffic Signal	Scoping Design Right-of-way Utility Relocation Environmental Construction Project Total	- - - - - 400 400	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - 400	- - - - - - 400	- - - - - - 400	-	

Transportation System Management (TMAN) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0511	5	Maricopa County Highway 85	107th Avenue to 95th Avenue	1.5	Widen from four lanes to four lanes with center turn lane, add turning lanes and resurface	Scoping Design Right-of-way Utility Relocation Environmental Construction	- 120 3,000 3,000 20 -	- - 1,000 - 10 2,270	- - - - 40 9,080	- - - - - -	- - - - - -	- 120 4,000 3,000 70 11,350	-	-
Project Total							6,140	3,280	9,120	-	-	18,540	18,540	-
TT0345	5	Maricopa County Highway 85	95th Avenue to 75th Avenue	1.5	Widen from four lanes to four lanes with center turn lane, add turning lanes and resurface	Scoping Design Right-of-way Utility Relocation Environmental Construction	- 85 2,300 3,930 30 4,575	- 5 - - 20 13,546	- - - - - 2,275	- - - - - 2,275	- - - - - -	- - 2,300 3,930 50 20,396	-	-
Project Total							10,920	13,571	2,275	-	-	26,766	26,766	-
TT0534	4	Maricopa County Highway 85	At Rainbow Road	1.1	Signal Installation	Scoping Design Right-of-way Utility Relocation Environmental Construction	- 51 - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- 51 - - - - -	51	-
Project Total							51	-	-	-	-	51	51	-
TT0548	4	Maricopa County Highway 85	Jackrabbit Trail to Cotton Lane	0	Safety improvements: passing lanes, intersection improvements, signing and striping	Scoping Design Right-of-way Utility Relocation Environmental Construction	- 85 35 2 40 -	- 95 15 700 23 833	- 5 - - 5 1,710	- - - - - -	- - - - - -	- 185 50 702 68 1,710	-	-
Project Total							162	833	1,720	-	-	2,715	2,715	-
TT0536	All	Numerous	At 124 Intersections	N/A	Remove high pressure sodium lighting and replace with LED lighting fixtures	Scoping Design Right-of-way Utility Relocation Environmental Construction	- - - - - 285	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - 285	-	-
Project Total							285	-	-	-	-	285	285	-
TT0497	4	Olive Avenue	Citrus Road to Cotton Lane	1	Widen from two lanes to four lanes with center turn lane	Scoping Design Right-of-way Utility Relocation Environmental Construction	- 50 1,450 - 25 -	- 50 - 2,100 - -	- - - 3,000 - 3,965	- - - - 4,325 -	- - - - - -	- 100 1,450 5,100 25 8,290	-	-
Project Total							1,525	2,150	6,965	4,325	-	14,965	14,965	-

Transportation System Management (TMAN) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0467	1	Riggs Road and Alma School Road	Riggs Road from Sun Lakes Boulevard to Arizona Avenue and Alma School Road from Riggs Road to Chandler Heights Road	3.5	Install conduit, pull boxes and fiberoptic cable to connect existing MCDOT Traffic Signals to the Regional Community Network	Scoping Design Right-of-way Utility Relocation Environmental Construction	- - - - 1,245 1,245	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - 1,245 1,245	- - - - - 511	- - - - - 734
Project Total							1,245	-	-	-	-	1,245	511	734
TT0537	4	Salome Highway	At Wintersburg Road	0.1	Signal Upgrade	Scoping Design Right-of-way Utility Relocation Environmental Construction	- - - - - 373	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - 373	- - - - - 373	- - - - - 373
Project Total							373	-	-	-	-	373	373	-
TT0463	4	Union Hills Drive	At 99th Avenue	0.8	Intersection Improvements	Scoping Design Right-of-way Utility Relocation Environmental Construction	- - 5 - - 2,280	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - 5 - - - 2,280	- - - - - 2,285	- - - - - 2,285
Project Total							2,285	-	-	-	-	2,285	2,285	-
TT0008	Various	Various	N/A	N/A	Property Management on prior year TIP Projects	Scoping Design Right-of-way Utility Relocation Environmental Construction	- - 50 - - -	- - 50 - - -	- - 50 - - -	- - 50 - - -	- - 50 - - -	- - 250 - - -	- - - - - -	- - - - - -
Project Total							50	50	50	50	50	250	250	-
TT0011	Various	Various	N/A	TBD	System Infill of right-of-way on Road System	Scoping Design Right-of-way Utility Relocation Environmental Construction	- - 100 - - -	- - 100 - - -	- - 100 - - -	- - 100 - - -	- - 100 - - -	- - 500 - - -	- - - - - -	- - - - - -
Project Total							100	100	100	100	100	500	500	-
TT0365	All	Various	TBD	TBD	Install traffic calming devices on roads as requested	Scoping Design Right-of-way Utility Relocation Environmental Construction	- 80 - - - 120	- 80 - - - 120	- 80 - - - 120	- 80 - - - 120	- 80 - - - 120	- 400 - - - 600	- - - - - 1,000	- - - - - 1,000
Project Total							200	200	200	200	200	1,000	1,000	-

Transportation System Management (TMAN) cont.

Project Number	District	Road	Limits	Miles	Scope of Work	Activity	FY 17	FY 18	FY 19	FY 20	FY 21	FY 2017 to 2021 Total (\$1,000's)	County Funding	Federal & Partner Funding
TT0487	4	Yuma Road	At Jackrabbit Trail	0.1	Install Traffic Signal	Scoping	-	-	-	-	-	-	-	-
						Design	150	25	-	-	-	175	-	-
						Right-of-way	110	-	-	-	-	110	-	-
						Utility Relocation	1,000	-	-	-	-	1,000	-	-
						Environmental	-	-	-	-	-	-	-	-
						Construction	-	1,954	-	-	-	1,954	-	-
						Project Total	1,260	1,979	-	-	-	3,239	3,239	-
						Total	28,166	22,163	20,430	4,675	350	75,784	72,304	3,479