

Transportation Alternatives / CMAQ Application for
FY 2021 and FY 2022 Projects

University Drive: Higley Road to Power Road

Maricpa County Department of Transportation

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 25, 2017 at 10:00 a.m.**

(LATE AND/OR INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED)

Maricopa County: University Drive: Higley Road to Power Road

PART A - CONTACT AND PROJECT DESCRIPTION**Contact Information**

1. Name of Sponsoring Agency	Maricopa County
2. Agency Contact Name	Kimberly Richards
3. Phone Number of Agency Contact	602-506-1630
4. E-Mail Address of Agency Contact	kimberlyrichards2@mail.maricopa.gov
5. Mailing Address of Agency Contact	2901 W. Durango Street, Phoenix AZ, 85009

Project Description

6. Please provide the Project Title.	University Drive: Higley Road to Power Road
7. Please provide a concise, specific description of the project (250 character limit):	This project will add bike lanes and sidewalks in filling a two-mile gap. Concrete bus pads and sidewalks will provide access to existing bus stops. Curb ramps, driveways, and narrow sidewalks will be upgraded to meet current ADA requirements.
8. Please provide the project limits:	University Drive from Higley Road to Power Road.

Maricopa County : University Drive: Higley Road to Power Road

PART B-DETAILED PROJECT DESCRIPTION

This part of the form identifies the current characteristics and proposed improvements for each project.

The purpose of Part B is to provide sufficient information to evaluate the cost estimate for the project and to provide assurance that the project will be capable of meeting the ADOT administered federal design review and clearance process. This process requires environmental, ROW and utilities clearances and a bid ready design prior to FHWA approval to encumber federal funding for construction.

NOTE: For Part B, Questions 14-20, the specified distance will vary (and update automatically) depending on the project type identified in Part B, Question 1. Pedestrian-only projects will use a distance of 1/4 mile, while bicycle and Shared-Use projects will use a distance of 1/2 mile.

1. Please select which funding source(s) this project is applying for. Check all that apply.

- Congestion Mitigation and Air Quality (CMAQ)
- Transportation Alternatives (TA)

2. What type of project is this? (Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Bicycle Lane (4' min. w/o curb/gutter) | <input type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 Monitor |
| <input checked="" type="checkbox"/> Bicycle Lane (5' min. with curb/gutter) | <input type="checkbox"/> Wide Sidewalk (8' min.) |
| <input type="checkbox"/> Buffered Bike Lane | <input type="checkbox"/> Detached Sidewalk with 4' min. buffer |
| <input type="checkbox"/> Protected Bike Lane | <input type="checkbox"/> Signalized Crossing |
| <input type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input checked="" type="checkbox"/> Sidewalk (5' min.) | <input type="text" value="Bus stop"/> |
| <input type="checkbox"/> Planning Study | |

3. What other major elements are included in this project? (Check all that apply)

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> Bridge (overpass) | Other: |
| <input type="checkbox"/> Tunnel (underpass) | <input type="text" value="None"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|--|
| <input type="checkbox"/> Number of Bike racks/lockers | <input type="checkbox"/> Number of Seating/Rest Area(s) |
| <input type="checkbox"/> Number of Drinking Fountains | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Way-finding Signs | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Trash receptacles | Other: |
| <input type="checkbox"/> Number of Trees | <input type="text" value="None"/> |
| <input type="checkbox"/> Number of new openings in street walls | |
| <input type="checkbox"/> Number of Shade Structures | |

5. Please describe the existing condition of the project site and any problem(s) being addressed.

University Drive from Higley Road to Power Road is a principal arterial street with Average Daily Traffic (ADT) of 13,800 (2016). Traffic signals are located every one-half mile and the cross section is 2-1-2 with the center lane a continuous left turn. There are no bike lanes and sidewalks are narrow and not continuous with missing curb ramps. The existing curb ramps do not meet current ADA requirements and a majority of the bus stops include only a sign in the dirt. There are frontage roads in several locations with adjacent land uses include commercial low, multifamily, medical, educational, vacant, religious, single family high density, and tourist accommodations.

Maricopa County : University Drive: Higley Road to Power Road

PART B-DETAILED PROJECT DESCRIPTION

6. Please describe the work being done and improvements being made as part of this project.

The roadway will be restriped with 11-foot travel and turn lanes to provide room for 6.5 foot bicycle lanes in both directions. New sidewalks will be constructed to close existing gaps in pedestrian facilities and provide access to bus stops. New curb ramps will be installed while existing curb ramps and driveways will be upgraded to current ADA requirements. Bus stop pads will be built to accommodate the 60-foot articulated bus currently operating in the corridor.

7. What do you hope to achieve with this project?

This project will close a two-mile gap in the existing regional bicycle and pedestrian networks, significantly improve access to transit for people who walk and bicycle in the corridor. New bike lanes and sidewalks will make it easier for people to move between their homes and nearby local commercial establishments. Connections to the paths and trails along the Roosevelt Water Conservation District Canal just east of Higley Road will be easier to get to.

8. Safety improvements to be included for this project: (Check all that apply)

- Medians with pedestrian crossing islands
- Roadway Reconfiguration (Road Diet)
- Striping/re-striping to narrow vehicle lanes
- Color pavement or similar treatment
- Lighting
- Landscape buffer between sidewalk and roadway
- Rectangular Rapid Flash Beacon (RRFB)
- Driver Feedback Sign

Other

9. Does this project include a road safety education component?

- Yes
- No

Please Explain:

10. How does this project or planning study address safety?

This project will narrow the travel lanes from 12' to 11' providing pedestrians, including those in wheelchairs, sidewalk access to bus stops without using the travel lanes. The 6.5' bike lanes, one foot wider than standard, will provide a buffer between motorists and pedestrians/cyclists.

11. How does the project improve ADA facilities for persons with disabilities?

- This project will include the following:
- Installation of 11 bus stop pads with sidewalks
 - Construction of new sidewalks.
 - Upgrade of 70 noncompliant curb ramps.
 - Construction of 11 new curb ramps.
 - Addition of five passing areas (5'x5').
 - 31 driveway improvements.

Maricopa County : University Drive: Higley Road to Power Road

PART B-DETAILED PROJECT DESCRIPTION

12. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:

Completing the sidewalk network, adding bicycle facilities, and making transit accessible will make it much easier for pedestrians and bicyclists to move throughout the corridor. The corridor is primarily residential with neighborhood retail located at arterial intersections. These new improvements will provide access to a Mesa public library, preschools, a community theatre, churches, medical facilities, pharmacies, and grocery stores.

13. How does the project create a sense of place?

This project will complete the transition from rural to suburban that began more than 40 years ago. It will make it obvious that people, and not just their cars, are expected and welcome.

14. Connectivity: (Check all that apply)

Project fills a gap in the system
Explain:

This project will close a two-mile bicycle and pedestrian gap with bike lanes and sidewalks.

Project connects to other local bikeways
List of connected bikeways:

University Dr both east and west; Higley Rd north and south; Power Rd north.

Multi Jurisdictional Project (please include letter of support (See Part C)
List of Participating Jurisdictions:

23 Total length of bikeways directly connected by this project (in miles)

15. Number of transit stops this project will connect to. Do NOT count major transit facilities (park and rides, transit centers, etc.) in this question. List associated route(s) and their peak frequency, using Valley Metro as the source.

40 Within 1/2 mile

Route 30 on University Dr - 30 minutes; Route 40 on Main St - 15 minutes; Route 184 on Power Rd - 30 minutes

16. Number of transit routes serviced by the transit stops in question 15 that this project will connect to. List associated route(s) and their peak frequency, using Valley Metro as the source.

3 Within 1/2 mile

List routes and frequency:

Route 30 on University Dr - 30 minutes; Route 40 on Main St - 15 minutes; Route 184 on Power Rd - 30 minutes

17. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:

0 Within 1/2 mile

List:

None

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PART B-DETAILED PROJECT DESCRIPTION

18. Number of non-commercial activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

Within 1/2 mile

List:

Mesa Greenbelt City Park, Velda Rose Desert Nature Trail, Red Mountain Library, Dreamland Villa Desert Nature Trail; Dreamland Villa Community Library.

19. Number of commercial and employment destinations (malls, retail centers, business parks, etc.) this project will benefit (for example, a mall is ONE destination; do NOT count every store in a mall as a separate destination):

Within 1/2 mile

List:

Walmart Neighborhood Market complex, Gerbers Home Furnishings, Sunflower Meds; U-Hall complex; Waves Smoke & Vapes complex; TitleMax; QuikTrip; Little Light Preschool; Sweet Repeats Ladies complex; RX Formulations; Advanced Hearing Group; Velda Rose Medical Center; H&I Automotive Center; Westenaire Motel; Desert Family Physicians complex; Sweet Peonies complex; Windemere Hotel & Conference Center; Buckhorn Shopping Center; Fountain Motel; Alta Mesa Shoe complex; Adobe Veterinary Clinic complex; Kohlhase Insurance; G&G Marine complex; Allison's complex.

20. Number of K-8 public schools this project will benefit:

Within 1/2 mile

List:

Fremont Junior High School is 0.6 mile north of this project.

21. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:

Within 1/2 mile

List:

Desert Shadows Montessori School.

22. Number of activity centers for air quality cost effectiveness (i.e. bank, church, hospital, health care facility, light rail station, park-and-ride lot, office park, post office, public library, shopping area, grocery store, university or junior college):

Within 1/4 miles

List:

East University Church of God; Victory Lutheran Church; Good Samaritan Society; Farnsworth Hall Community Theatre; Little Light Preschool; Mountainside Dental; Word of Life Church; Word Alive Christian Center; Walmart Neighborhood Market complex, Gerbers Home Furnishings, Sunflower Meds; U-Hall complex; Waves Smoke & Vapes complex; TitleMax; QuikTrip; Little Light Preschool; Sweet Repeats Ladies complex; RX Formulations.

1/4 miles to 1/2 miles

List:

Maricopa County : University Drive: Higley Road to Power Road

PART B-DETAILED PROJECT DESCRIPTION

LDS Hill Crest; Via Church; Childtime of Mesa; City of Mesa Customer Service; Copper Heights Assisted Living; Victory in the Truth Ministries; Advanced Hearing Group; Velda Rose Medical Center; H&I Automotive Center; Westernaire Motel; Desert Family Physicians complex; Sweet Peonies complex; Windemere Hotel & Conference Center; Buckhorn Shopping Center; Fountain Motel; Alta Mesa Shoe complex; Adobe Veterinary Clinic complex; Kohlhase Insurance; G&G Marine complex; Allison's complex.

Maricopa County : University Drive: Higley Road to Power Road

PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served:

[MAG Demographic Mapping](#)

People Per Square Mile

% Families in Poverty

Use the MPO/COG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census block groups adjacent to your project, left-clicking where needed to change the direction of the line. Double-click to finish drawing the line. The selected census block groups will become highlighted in blue. A pop-up box will appear with "Results for Selected Block Groups." Select the "Summary Report" tab, and use the data found there. You may export the results to Excel (click the printer icon at the top-right side of the pop-up window) for your records.

24. Please provide the following information on the facility on which the improvement will be located.

For a linear project, please enter the Facility Name, Starting Limit and Ending Limit:

For a point project (e.g. an intersection or crossing), please enter a Facility Name and a Crossing Feature:

Federal Functional Classification of the Facility:

[Link to MAG webpage for Federal Functional Classification Map](#)

Type of Facility the Improvement will be located on:

Length (in Miles)

Posted Speed Limit (MPH)

Number of Travel Lanes Before Project

Number of Travel Lanes After Project

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PART B-DETAILED PROJECT DESCRIPTION

25. Please provide an estimated traffic volume (ADT) on the nearest parallel arterial.

ADT Estimate

Name of road the traffic count was taken from

Description of Methodology and Source used for the ADT Estimate

26. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete.

Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

27. Current ROW: (Check all that apply)

- Agency owns all ROW Needed
- ROW to be acquired
- Owners will donate ROW

- Agency owns easement
- Agency has right-of-use (i.e. canal)
- Condemnation may be required

28. Please describe any right of way issues associated with the project.

29. Please indicate whether all parcels for this project have been inventoried.

Yes

No

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PART B-DETAILED PROJECT DESCRIPTION

30. Current Utilities in or abutting the alignment: (Check all that apply)

<input type="checkbox"/>	No Utility in or abutting the alignment	<input checked="" type="checkbox"/>	Private Structures
<input checked="" type="checkbox"/>	Canals & Drainage		
<input checked="" type="checkbox"/>	Power Lines & Cables		Other:
<input checked="" type="checkbox"/>	Pipelines, Sewer and Water		<input type="text"/>

31. Please describe any utility conflicts that will need to be addressed.

There are no major utility conflicts anticipated. The following entities have utilities in the corridor: AT&T, City of Mesa Utilities, Cox Communications, CenturyLink, MCDOT, SRP, and Southwest Gas.

32. Guidelines used to develop project: (Check all that apply)

<input checked="" type="checkbox"/>	AASHTO Guide for Bicycle Facilities	Other:
<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	<input type="text" value="MCDOT Guidelines"/>
<input checked="" type="checkbox"/>	MAG Complete Streets Guide	
<input checked="" type="checkbox"/>	MAG Designing Transit Accessible Communities	
<input type="checkbox"/>	MAG Valley Path Brand & Wayfinding Signage Guidelines	
<input checked="" type="checkbox"/>	NACTO Urban Bikeway Design Guide	
<input checked="" type="checkbox"/>	RPTA Bus Stop Program and Standards	

33. Jurisdiction has the following policies for improved bicycle/shared use facilities:

With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="text" value="Required"/>
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="text" value="Required"/>
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Not Addressed"/>
With new development or during development retrofits, shared-use paths are:	<input type="text" value="Required"/>
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="Yes"/>
Complete Streets Policy	<input type="text" value="No"/>

34. The project is: (Check one)

<input checked="" type="checkbox"/>	Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)
	List: <input type="text" value="Draft MCDOT Active Transportation Plan"/>
<input checked="" type="checkbox"/>	Consistent with general policy/practices, but not formally identified (provide source)
	Explain: <input type="text" value="MCDOT has constructed several sidewalk projects recently"/>
<input type="checkbox"/>	Not addressed by jurisdiction's plans, policies, or practices
	Explain: <input type="text"/>

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PART B-DETAILED PROJECT DESCRIPTION

35. How will the applicant measure the success of this project?

After the project is complete and users have had time to adjust, MCDOT will do a manual count at the intersection of University Drive and Higley Road. Since this intersection was included in the 2014 MAG Bicycles Count: Final Report and Implementation Plan, we will have before and after counts.

36. Will bicycle/pedestrian count technology be incorporated? Will the devices broadcast automatic updates or require manual data collection? If manual, how will the agency identify staff resources to dedicate to collecting the data?

Count technology will not be incorporated in this project. MCDOT will explore opportunities to work with the City of Mesa on future data collection.

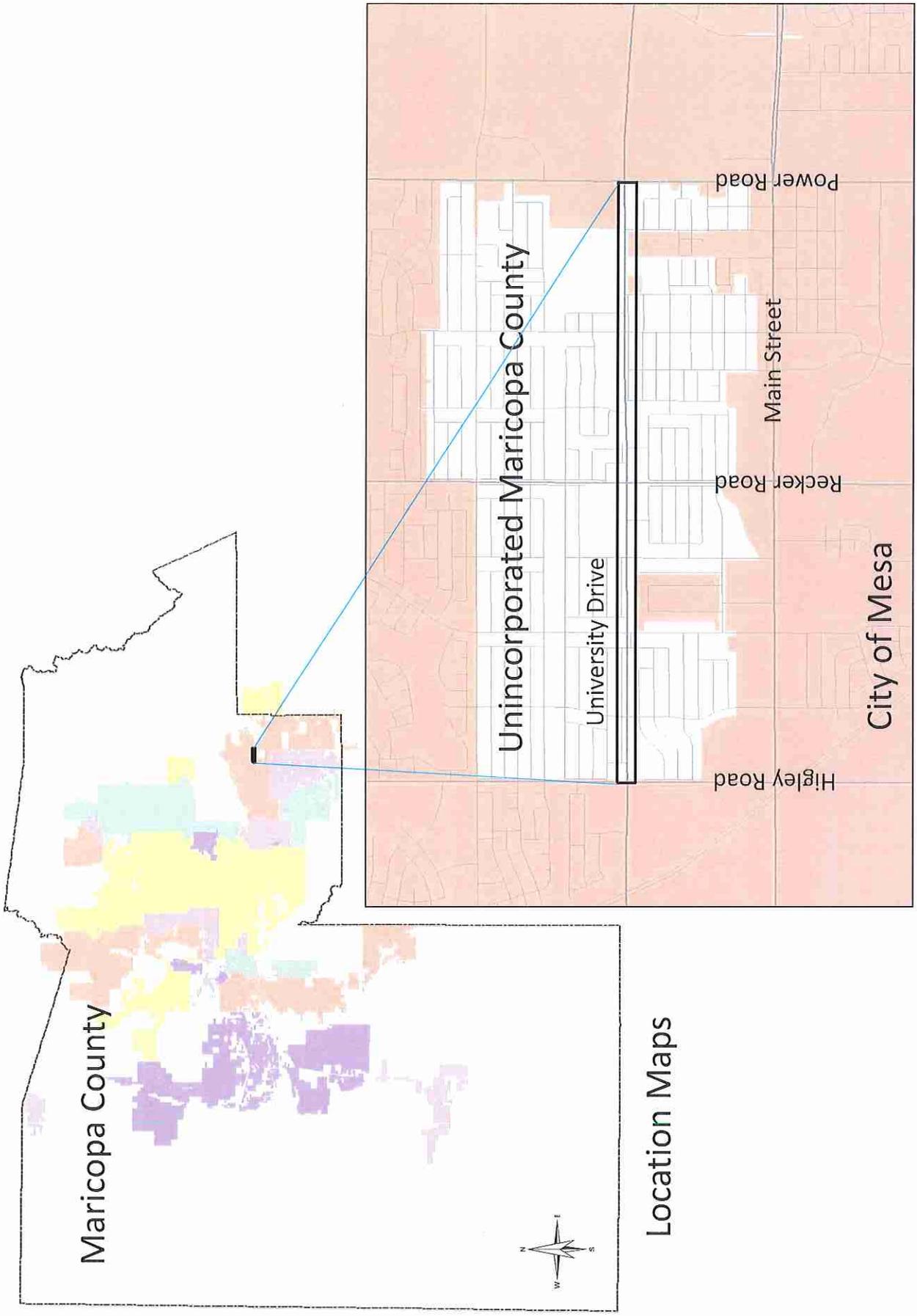
37. Will the project include an education/marketing component upon completion of construction, to publicize the project and increase citizen awareness of the project impact and benefits? If yes, please describe below.

Yes. The MCDOT Communications team will promote the finished project utilizing social media, website, and press release.

38. Will the project include wayfinding signage elements? If yes, please describe below.

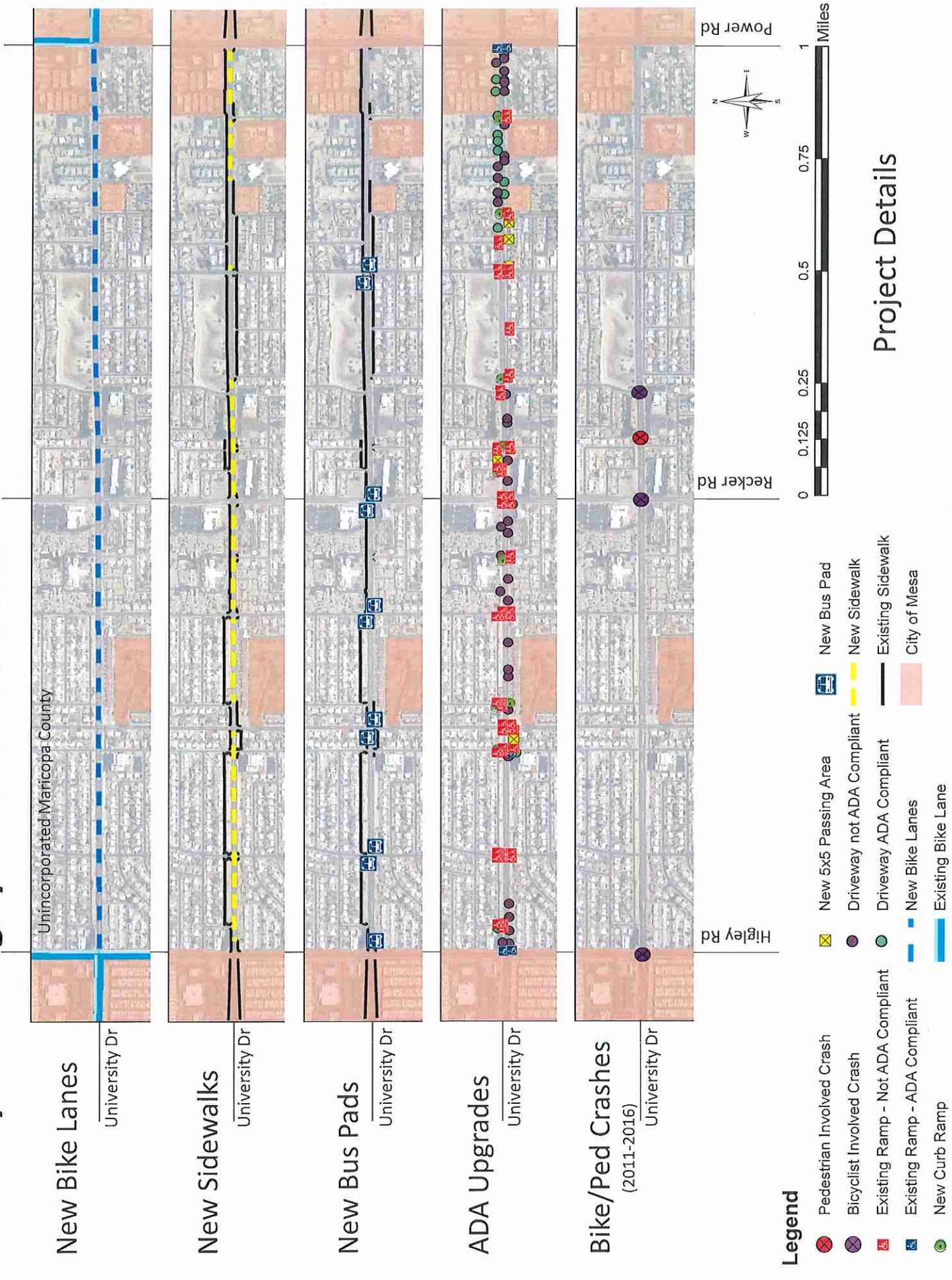
No.

University Drive: Higley Road to Power Road



Location Maps

University Drive: Higley Road to Power Road



New Bike Lanes

University Dr

New Sidewalks

University Dr

New Bus Pads

University Dr

ADA Upgrades

University Dr

Bike/Ped Crashes

(2011-2016)

University Dr

Higley Rd

Recker Rd

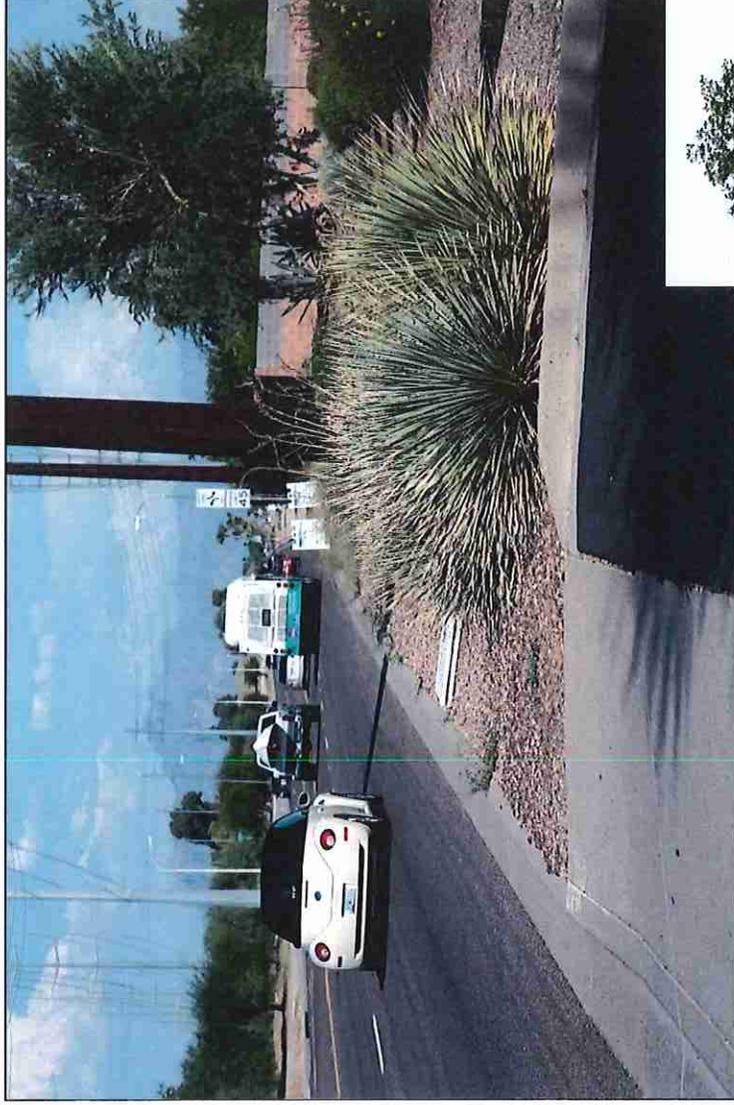
Power Rd

Legend

- Pedestrian Involved Crash
- Bicyclist Involved Crash
- Existing Ramp - Not ADA Compliant
- Existing Ramp - ADA Compliant
- New Curb Ramp
- New 5x5 Passing Area
- Driveway not ADA Compliant
- Driveway ADA Compliant
- New Bus Pad
- New Sidewalk
- Existing Sidewalk
- New Bike Lanes
- Existing Bike Lane
- City of Mesa

Project Details

University Drive: Higley Road to Power Road



University Drive east of Recker Road

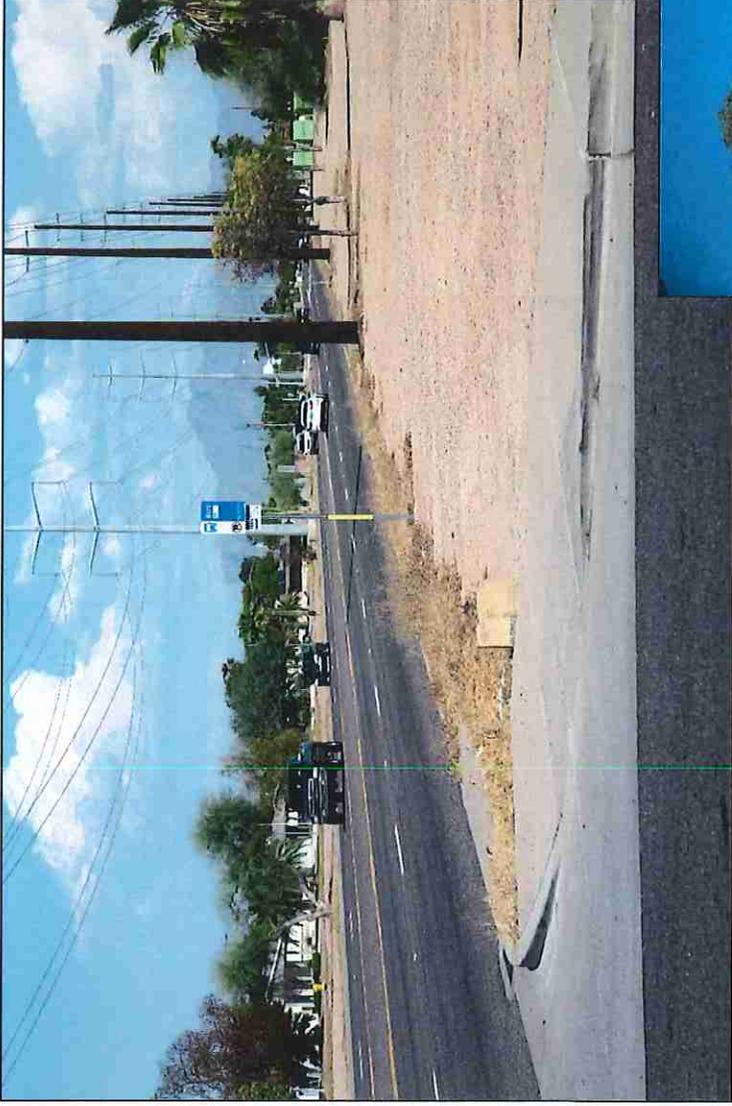
The pedestrian route is blocked by vegetation, loose gravel, power line poles, and advertising signs. The mid-afternoon traffic includes trucks headed to the lake, lots of cars, and Valley Metro buses. The wide travel lanes can be narrowed to install bike lanes.



University Drive east of 64th Street

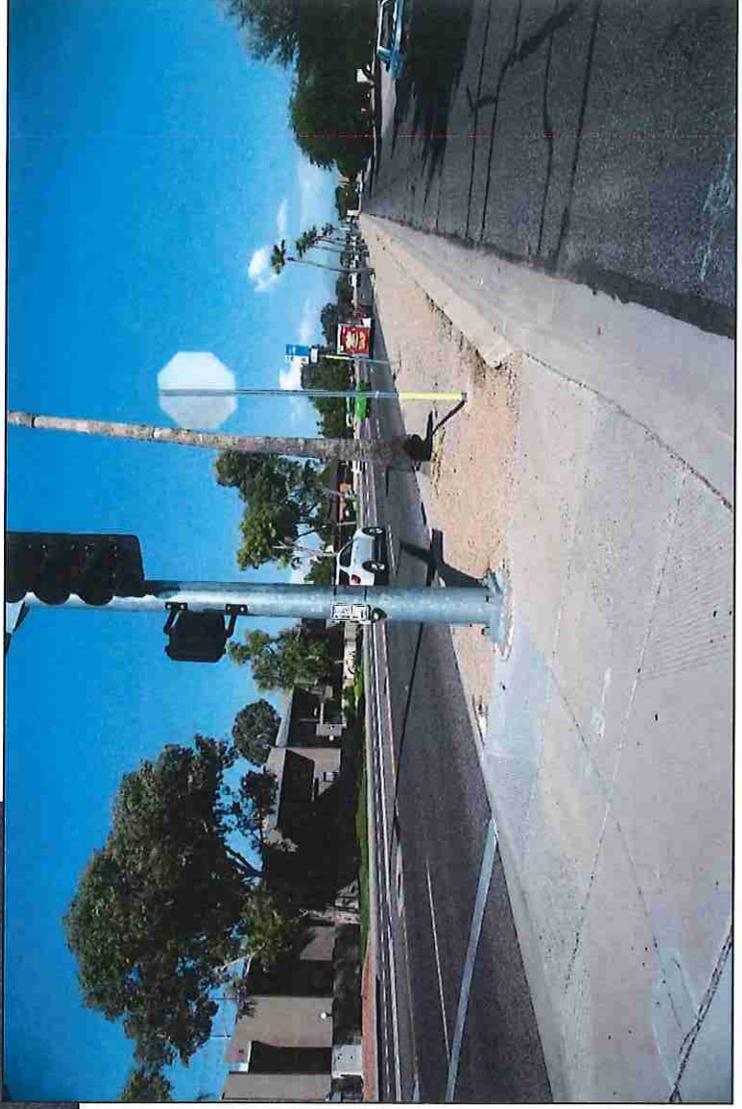
Bicyclists are using the sidewalk because there are no bike lanes on the street. They are vulnerable to cars exiting from driveways.

University Drive: Higley Road to Power Road



University Drive at 54th Street

This image is typical of much of the corridor. Curb ramps and bus stops are not ADA compliant. Sidewalks are missing.

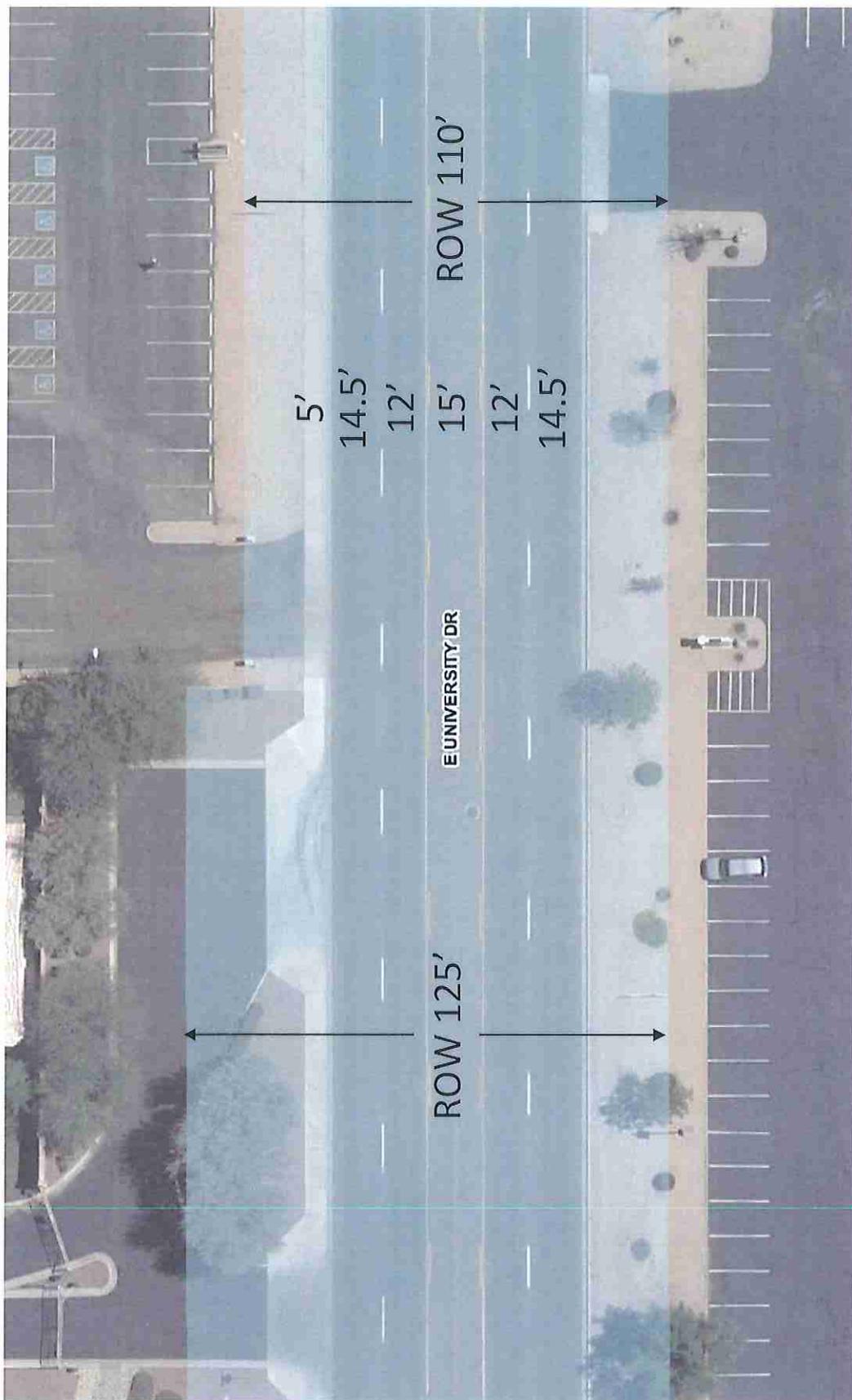


University Drive at 64th Street

The bus stop is in a median island with an extra high curb separating it from the frontage road. The pedestrian route requires negotiating through dirt and gravel around the signal pole, stop sign, and tree.

University Drive: Higley Road to Power Road

Typical Cross Section



PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

Part	Sponsoring Agency:	Project Title:	Application Date:	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)
	Maricopa County Department of Transportation	University Drive: Higley Road to Power Road	9/18/2017								
		Item Description									
A.	Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY 2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN 3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents) 4. HAZMAT ASSESSMENT Subtotal Scoping (Part A)		LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00	
				LS	1	\$75,000.00	\$75,000.00	No	\$0.00	\$75,000.00	
				LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00	
				LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00	
							\$110,000.00		\$0.00	\$110,000.00	
B.	Final Preliminary Engineering Design - Stages II, III, IV And P&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules. 2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report 3. DRAINAGE REPORT 4. SWPPP Subtotal PE (Part B)		LS	1	\$150,000.00	\$150,000.00	No	\$0.00	\$150,000.00	
				LS	1	\$10,000.00	\$10,000.00	No	\$0.00	\$10,000.00	
				LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00	
				LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00	
							\$165,000.00		\$0.00	\$165,000.00	
							\$275,000.00		\$0.00	\$275,000.00	
C.	Right-of-Way Acquisition	1. Right-of-Way Acquisition Subtotal Right-of-Way Acquisition (Part C)		LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00	
D.	Utility Relocation	1. Utility Relocation Subtotal Utility Relocation (Part D)		LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00	
E.	Construction Or Implementation (For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 1)	Installation Of SWPP Measures Site Preparation Sawcut Remove Structures and Obstructions Remove Fencing Remove Structural Concrete Remove Asphaltic Concrete Pavement Remove Concrete Sidewalks, Slabs Hazmat Abatement Retaining Wall - Reinforced Concrete Cantilevered General Excavation Drainage Excavation Structural Excavation Structural Backfill Borrow (In Place) Curb & Gutter Aggregate Base Concrete Colored Concrete Stamped Color Concrete Precast Concrete Pavers Asphaltic Concrete Polymer or Resin Stabilized Surface Concrete Pavers Stamped Asphalt Stamped Concrete Concrete Integral Color Concrete Pedestrian ADA Ramp Culvert Extensions Pedestrian Lighting Including Conduit And Trenching Handrail Standard Decorative Subtotal Hardscape Construction		LS	1	\$5,000.00	\$5,000.00	Yes	\$4,715.00	\$285.00	
				LS	1	\$20,000.00	\$20,000.00	Yes	\$18,860.00	\$1,140.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LS	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
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				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
				CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.	

PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

Sponsoring Agency:		Project Title:		Application Date:						
MariCopa County Department of Transportation		University Drive: Higley Road to Power Road		9/18/2017						
Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (194.3%)	Local Funds (5.7%)	Note(s)	
E. Construction Or Implementation (For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4)	2. Landscaping & Irrigation Items	Requirements	Each	1	\$0.00	Yes	\$0.00	\$0.00		
		Trees (15 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trees (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (1 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Cactus (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Mulch	CY	1	\$0	\$0	Yes	\$0	\$0	
		Organic	CY	1	\$0	\$0	Yes	\$0	\$0	
		Topsoil	CY	1	\$0	\$0	Yes	\$0	\$0	
		Seeding	Acre	1	\$0	\$0	Yes	\$0	\$0	
		Turf Sod	SF	1	\$0	\$0	Yes	\$0	\$0	
		Boulders	Each	1	\$0	\$0	Yes	\$0	\$0	
		Irrigation System	SF	1	\$0	\$0	Yes	\$0	\$0	
		Drip	SF	1	\$0	\$0	Yes	\$0	\$0	
		Turf	LF	1	\$0	\$0	Yes	\$0	\$0	
		Directional Bore	LF	1	\$0	\$0	Yes	\$0	\$0	
		Sleeving For Irrigation System	LF	1	\$0	\$0	Yes	\$0	\$0	
		Landscaping Header Curb	LF	1	\$0	\$0	Yes	\$0	\$0	
		Landscaping Establishment	LS	1	\$0	\$0	Yes	\$0	\$0	
		3. Site Furnishings	3. Site Furnishings	Subtotal Landscaping & Irrigation Items	Each	1	\$0	Yes	\$0	\$0
Benches	Each			1	\$0	Yes	\$0	\$0		
Seawalls	LF			1	\$0	\$0	Yes	\$0	\$0	
Blk Backs	Each			1	\$0	\$0	Yes	\$0	\$0	
Trash Receptacles	Each			1	\$0	\$0	Yes	\$0	\$0	
Drinking Fountains	Each			1	\$0	\$0	Yes	\$0	\$0	
Signage (Standard Traffic Control)	Each			1	\$0	\$0	Yes	\$0	\$0	
Signage (Wayfinding)	Each			1	\$0	\$0	Yes	\$0	\$0	
Trees Groves	Each			1	\$0	\$0	Yes	\$0	\$0	
Subtotal Site Furnishings	Each			1	\$0	\$0	Yes	\$0	\$0	
Bicycle and Pedestrian Counter	Each			1	\$0	\$0	Yes	\$0	\$0	
Concrete Bus Stop Pad	Each			11	\$4,500	\$49,500	Yes	\$46,679	\$2,822	
Concrete Driveway	SF			4,650	\$14	\$65,100	Yes	\$65,388	\$8,712	
Microsil	SF			80,000	\$2	\$160,000	Yes	\$150,880	\$9,120	
Stripping Chalk/liner	LF			32,000	\$0	\$0	Yes	\$0	\$0	
Stripping	LF			53,000	\$1	\$53,000	Yes	\$24,990	\$1,511	
Raised Pavement Markers	Each			6,900	\$4	\$24,150	Yes	\$22,778	\$1,372	
Signaling	LS			1	\$50,000	\$50,000	Yes	\$47,150	\$2,850	
Subtotal Other Construction	Each			1	\$0	\$0	Yes	\$0	\$0	
Contractor Mobilization	LS			1	\$384,850	\$384,850	Yes	\$382,914	\$1,936	
Traffic Control	LS	1	\$120,000	\$120,000	Yes	\$122,590	\$7,410			
Construction Survey & Layout	LS	1	\$10,000	\$10,000	Yes	\$11,160	\$6,840			
Construction Contingencies	LS	1	\$120,000	\$120,000	Yes	\$8,430	\$570			
Construction Administration	LS	1	\$120,000	\$120,000	Yes	\$113,160	\$6,840			
Subtotal Mobilization & Administration Costs	LS	1	\$130,000	\$130,000	Yes	\$122,590	\$7,410			
Subtotal Construction Or Implementation Cost (Part E)				\$1,606,225	\$1,606,225		\$1,514,670	\$91,555		
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)				\$1,881,225	\$1,881,225		\$1,514,670	\$366,555		
G. Add'l Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,000				\$10,000	\$10,000	No	\$0	\$10,000		
H. Total Project Cost including ADOF Fees (Part F + Part G)				\$1,891,225	\$1,891,225		\$1,514,670	\$376,555		

PART E - TOTAL PROJECT SCHEDULE AND BUDGET

Please verify that the cost and programming estimates for the total project are correct below. The numeric values on this sheet (in GREY) are automatically populated from the cost estimate sheet (Part D) and cannot be modified. If there are any errors in the numeric values on this sheet, please verify and correct the numbers you have entered into the cost estimate sheet (Part D). You MUST fill in the GREEN portions of Part E manually.

The design for the project should be programmed at least 1 year, preferably 2 years, prior to construction. Utilities and right of way should be programmed at least 1 year prior to construction, but may occur in the same year as construction depending on utility and right of way concerns that are identified in questions 24-27 in Part B.

Cost Estimate for the Project Including ALL Selements	Cost	Additional Notes (if needed)
1. ADOT Fee	\$10,000	
2. Design	\$275,000	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$1,486,225	
6. Contingency	\$120,000	No more than 20% of Construction Cost
7. Total Cost	\$1,891,225	

8. Will the agency maintain the improvement after it is completed? Yes

9. Expected Annual Maintenance Cost 69,200

10. Identify Source of Maintenance Funds Highway User Revenue Funds

Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)	2020	Design of project	HURF	\$275,000	Not Available	\$275,000	100.0%
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)				\$0	Not Available	\$0	
14. Other (Optional)	2020	ADOT Fee	HURF	\$10,000	Not Available	\$10,000	100.0%
15. Construction	2022	Construction	HURF	\$91,555	\$1,514,670	\$1,606,225	5.7%
16. Total Costs				\$376,555	\$1,514,670	\$1,891,225	19.9%

PART F - SIGNATURE AND CHECKLIST

Checklist

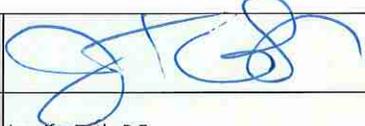
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.

COVER SHEET	Complete?
Cover Sheet is completely filled out	Yes
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 8 are complete	Yes
PART B - Project Description	Complete?
Fields 1 - 14 (Project Description) are complete	Yes
Fields 15 - 17 (Transit) are complete	Yes
Fields 18 – 22 (Attractors and Demographics) are complete	Yes
Fields 23 – 30 (Traffic, Environmental, ROW, and Utilities) are complete	Yes
Fields 31 – 33 (Guidelines, Policies, and Plans) are complete	Yes
Fields 34 – 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	Yes
PART C - Required Attachments	Complete?
Field 1 - Map showing the general location of the proposed project in relation to the region, including a north arrow provided in the printed application and the PDF application.	Yes
Field 2 - Map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow provided in the printed application and the PDF application.	Yes
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	Yes
Field 4 - Simple diagram of the current typical cross section of the segment, that shows the right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel in the printed application and the PDF application.	Yes
(OPTIONAL)- Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	No
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	No
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	No
PART D - Cost Estimate Worksheet	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	Yes
Part A - Scoping is complete	Yes
Part B - Final Preliminary Engineering Design is complete	Yes
Part C - Right-of-Way Acquisition is complete	Yes
Part D - Utility Relocation is complete	Yes
Part E - Construction or Implementation is complete	Yes
Parts F, G, and H - Costs are complete and accurate	Yes
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	Yes
Field 8 - 10 are complete	Yes
Fields 11 – 15 Years are complete	Yes
Fields 11 – 15 Local Funding Sources are complete	Yes
Fields 11 – 15 Local Costs are complete and accurate	Yes

Field 11 - 15 Federal Costs are complete and accurate	Yes
Field 16 Total Costs are complete and accurate	Yes
PART F - Signature and Checklist	Complete?
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager/administrator or designated representative.	Yes
Name, title and date fields under the signature are completed.	Yes

SIGNATURE(S):

As the MAG member agency's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature:	
Name:	Jennifer Toth, P.E.
Title:	Director/County Engineer
Date:	09/20/2017