

# Transportation Alternatives (TA) / CMAQ Application For FY 2023 and FY 2024 Projects



**Due: September 16, 2019 at 10:00 a.m.**

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

**Est. TA Amount Available in Millions: \$5.9., and \$5.2 (\$11.1 total)**

**Est. CMAQ Amount Available in Millions: \$11.3, and \$9.9 (\$21.2 total)**



**INSTRUCTIONS AND SCHEDULE**

**The due date and time for project applications to be submitted to MAG is  
Monday, September 16, 2019 at 10:00 a.m.**

**General Instructions**

This Excel form is to be used to request federal Transportation Alternatives (TA) and CMAQ funding available through the Maricopa Association of Governments (MAG) for projects to be included in the FY2020-FY 2024 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2023 and 2024.

Applications are due to MAG on **Monday, September 16, 2019 at 10:00. Late applications will not be accepted.**

This application form includes:

- Instructions and Schedule
- Cover Sheet
- Part A - Contact and Project Description
- Part B - Detailed Project Description
- Part C - Required and Optional Attachments
- Part D - Cost Estimate Spreadsheet
- PART E - Budget and Signature Page
- Part F - Checklist
- GIS Submittal Instructions
- ADOT Fee Sheet
- Transportation Alternatives Program and Map
- Congestion Mitigation Air Quality Program and Map

Each part is a separate tab of this excel file. Please complete the Cover Sheet and Parts A - F. Alternative application forms are available upon request.

**Transmittal Instructions**

Send the following to MAG:

- a. A completed Excel spreadsheet application in MS Excel format (do not send a PDF or Fax instead of the spreadsheet)
- b. A PDF copy of Part F of the Excel spreadsheet with the signature block signed and dated
- c. A PDF copy of all required attachments

Two methods are provided to transmit files to MAG as follows:

**Method 1 EMAIL:** To Email the application to MAG, please do the following:

1. Save the files to be transmitted to MAG in a place you can find. Zip all files to submit into a single file.
2. Click on the following hyperlink to open an email window, attach the application files and press the send button.

[EMAIL APPLICATION TO MAG](#)

**Method 2 DROPBOX:** If the application is to large to be sent by email or you would like immediate confirmation of your transmittal, please do the following:

1. Save all files to be transmitted to MAG in a place you can find
2. ZIP the files
3. Click the following hyperlink to upload the files to Dropbox

[DROP THE APPLICATION IN THE BOX](#)

**Application Workshops and Open Working Group Meeting Schedule\***

Date	Time	Room	Workshop/Open Working Group
Tuesday, August 6, 2019	10:00:00 AM	Saguaro	Workshop on MAG Transportation Programming and Federal Fund Project Applications

**INSTRUCTIONS AND SCHEDULE**

The due date and time for project applications to be submitted to MAG is  
**Monday, September 16, 2019 at 10:00 a.m.**

Tuesday, August 13, 2019	10:00:00 AM	Chaparral	Open Working Group - Federal Fund Project Applications
Tuesday, August 27, 2019	1:00:00 AM	Chaparral	Open Working Group - Federal Fund Project Applications

\* All meetings will be held on the 2nd floor of the MAG Offices at 302 N. 1st Avenue, Phoenix, AZ 85003

**MAG Contact Information**

Contact Name	Phone	E-Mail Address
MAG Offices	602-254-6300	
Jason Stephens	602-254-6300	<a href="mailto:Jstephens@azmag.gov">Jstephens@azmag.gov</a>
Teri Kennedy	602-254-6300	<a href="mailto:TKennedy@azmag.gov">TKennedy@azmag.gov</a>
Stephen Tate	602-452-5010	<a href="mailto:STate@azmag.gov">STate@azmag.gov</a>



**Transportation Alternatives / CMAQ Application for  
FY 2023 and FY 2024 Projects**

**FY 2023 Phoenix 20th Street Bicycle Corridor Improvements  
(Grand Canal - Highland Avenue)**

**Phoenix**

**APPLICATIONS ARE DUE AT MAG OFFICES BY  
Monday, September 16, 2019 at 10:00 a.m.**

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

## Phoenix: FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

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

1. Name of Sponsoring Agency	Phoenix
2. Agency Contact Name	Leticia Vargas, PE
3. Phone Number of Agency Contact	602-534-5692
4. E-Mail Address of Agency Contact	<a href="mailto:leticia.vargas@phoenix.gov">leticia.vargas@phoenix.gov</a>
5. Mailing Address of Agency Contact	1034 E. Madison Street Phoenix, Arizona 85034

**Project Description**

6. Please provide the Project Title.	FY 2023 Phoenix 20th Street Bicycle Corridor Improvements (Grand Canal - Highland Avenue)
7. Please provide a concise, specific description of the project (250 character limit):	20th St is a future Phoenix Bicycle Network route, identified in the 2014 Phoenix Bicycle Master Plan. 20th St was assessed in the 2018 MAG Design Assistance Program, recommending bicycle improvements. This project will implement recommendations between the Grand Canal and Highland Ave.
8. Please provide the project limits:	20th Street from the Grand Canal to Highland Avenue, Phoenix Arizona (Length 1.5 mi)

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

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 checked="" 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 checked="" 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 type="checkbox"/> Sidewalk (5' min.)                                 | <input type="text" value="Speed limit reduction, street lighting &amp; ADA improvements"/> |
| <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"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK |                      |
| <input type="checkbox"/> Countdown Pedestrian Signal       |                      |

4. What amenities are included in this project?

- |   |  |
|---|--|
| <input type="text" value="0"/> Number of Bike racks/lockers           | <input type="text" value="0"/> Number of Seating/Rest Area(s)                |
| <input type="text" value="0"/> Number of Drinking Fountains           | <input type="text" value="0"/> Number of bicycle/pedestrian counting devices |
| <input type="text" value="0"/> Number of Way-finding Signs            | <input type="text" value="0"/> Number of bicycle/pedestrian counting devices |
| <input type="text" value="0"/> Number of Trash receptacles            | Other:   |
| <input type="text" value="0"/> Number of Trees                        | <input type="text"/>   |
| <input type="text" value="0"/> Number of new openings in street walls |  |
| <input type="text" value="0"/> Number of Shade Structures             |  |

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

As collected on May 9, 2015, 20th St only experiences 4,014 (NB) and 4,289 (SB) vehicles annual daily traffic (ADT) between the Grand Canal and Highland Ave. This collector is an optimal location for improved bicycle and pedestrian focus. The proposed speed limit reduction and narrowed lanes are congruent with the corridor's use and will not deleteriously impact vehicular traffic. Between 2011 and 2015, a total of 16 pedestrian and bicycle related crashes were recorded along the corridor, most commonly resulting from "failure to yield". Additionally three serious injury crashes have occurred at the following intersections (Osborn Rd, Indian School Rd and Highland Ave). While most of 20th St features a 4 foot bicycle lane, the facility is aged with faded striping, worn pavement surfaces and does not provide adequate width or protection from vehicular traffic to serve as a bicycle focused corridor. Recommended improvements will serve to improve bicycle and pedestrian visibility, increase bicycle protection through buffered lanes, promote safer vehicle speeds and promote improved driver attention.

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**PART B-DETAILED PROJECT DESCRIPTION**

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

The 20th St Improvements (begining as Phase I of the 20th Street corridor before the Highland Avenue - Missouri Avenue segment) focus on increasing bicycle & pedestrian safety and comfort through a series of improvements. Primary bicycle improvements include; implementing buffered bicycle lanes to increase the horizontal separation between bicyclists and vehicles, narrowing travel lanes and lowering the speed limit from 35 mph to 30 mph to promote slower vehicle speeds along the corridor and the addition of shared-lane markings to the SB frontage road bewteen Highland Ave and Cambell Ave to provide bicyclists median-protection from mainline traffic. Pedestrian improvements along the corridor include improvement to ADA compliant curb ramps with truncated domes and driveways to correct slope and cross-slope issues. Implementing street lighting between Highland Ave and Osborn Rd will eliminate a gap in exsiting street lighting and will increase visibility and safety for pedestrians, bicyclists and drivers.

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

This project aims to increase the comfort, safety, and ease of use of the bicycle network and pedestrian facilities along the 20th Street corridor for the residents of Phoenix.

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

- |                                     |   |  |
|-------------------------------------|---|--|
| <input type="checkbox"/>            | Medians with pedestrian crossing islands      | Other<br><div style="border: 1px solid black; height: 80px; width: 100%;"></div> |
| <input type="checkbox"/>            | Roadway Reconfiguration (Road Diet)           |  |
| <input checked="" type="checkbox"/> | Striping/re-striping to narrow vehicle lanes  |  |
| <input checked="" type="checkbox"/> | Color pavement or similar treatment           |  |
| <input checked="" type="checkbox"/> | Lighting                                      |  |
| <input type="checkbox"/>            | Landscape buffer between sidewalk and roadway |  |
| <input type="checkbox"/>            | Rectangular Rapid Flash Beacon (RRFB)         |  |
| <input type="checkbox"/>            | Driver Feedback Sign                          |  |

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

- |                                     |     |
|-------------------------------------|-----|
| <input type="checkbox"/>            | Yes |
| <input checked="" type="checkbox"/> | No  |

Please Explain:

N/A

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

The addition of buffered bike lanes increases traffic separation to give greater protection to bicyclists. Reducing travel lane widths and speed limit reductions lowers vehicle speeds to decrease potential crash severity, improve driver attention and reduce driver reaction times. Adding street lighting along the corridor improves visibility for pedestrian, bicyclists and vehicles. Installing ADA compliant curb ramps and driveways creates a continuous and accessible safe pedestrian space particularly to mobility limited individuals. Adding each of these features to the corridor works to improve the overall bicycle and pedestrian safety along 20th Street.

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

This project will improve ADA facilities including reconstructing driveways and curb ramps to meet ADA requirements along the 20th St corridor. These ADA improvements are focused to correct slopes and cross-slopes concerns and implement truncated domes to new curb ramps.

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**PART B-DETAILED PROJECT DESCRIPTION**

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

This project improves multi-modal passage on 20th St for local residents and regional users between the Grand Canal and Highland Ave. Improvements to both bicycle and pedestrian features will transform 20th St into a preferred North-South bike/ped corridor connecting the newly improved Grand Canal multi-use path with growing commercial and business clusters between Highland Ave and Camelback Rd. Improvements will also increase the ease of use of 20th St and support ease of access to the citywide bicycle network for surrounding populations.

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

This project will increase access to commercial and business complexes in the area and continues to grow the regional connectivity of the expanding citywide bicycle network. This segment of 20th Street will compound the benefits of the newly improved Grand Canal multi-use path and convert 20th St as a bicycle priority corridor, increasing the overall bicycle-friendliness and walkability of the area.

14. Connectivity: (Check all that apply)

Project fills a gap in the system  
Explain:

This project fills a North and South bikeway gap between the Grand Canal multi-use path and Mitchell Dr where there is currently no existing bicycle infrastructure.

Project connects to other local bikeways  
List of connected bikeways:

Grand Canal multi-use path and Campbell Ave

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

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.

Within 1/2 mile

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.

Within 1/2 mile

List routes and frequency:  
29 East/West (Thomas Rd) every 8-30 mins 41 East/West (Indian School Rd) every 10-30 mins, 50 East/West (Camelback Rd) every 15-30 mins and 60 East/West (Bethany Home Rd) every 30 mins

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

Within 1/2 mile

List:  
N/A

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**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:

Century 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:

The Camelback Colonnade Mall, Town and Country Shopping Center, Park One Office Park, Biltmore Center and Evaluate 24 Office Park

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

Within 1/2 mile

List:

Loma Linda School, Madison Camelview Elementary School and Saint Thomas the Apostle School

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

Within 1/2 mile

List:

N/A

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:

Town and Country Shopping Center, the Camelback Colonnade Mall, Town and Country Shopping Center, Century Library and Park One Office Park

1/4 miles to 1/2 miles

List:

N/A

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 left-hand side of the screen, under select "Reports", then select "Custom Geography". Next, click the "Corridor of Interest" button. 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 panel will appear with a report that summarizes the selected block groups. You may export the results to Excel (click the "Export to Excel" button) for your records

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**PART B-DETAILED PROJECT DESCRIPTION**

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

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

ADT Estimate

Date Counted

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)

- |                                     |                            |                          |                                      |
|-------------------------------------|----------------------------|--------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | Agency owns all ROW Needed | <input type="checkbox"/> | Agency owns easement                 |
| <input type="checkbox"/>            | ROW to be acquired         | <input type="checkbox"/> | Agency has right-of-use (i.e. canal) |
| <input type="checkbox"/>            | Owners will donate ROW     | <input type="checkbox"/> | Condemnation may be required         |

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**PART B-DETAILED PROJECT DESCRIPTION**

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

N/A

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

Yes  No

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

<input type="checkbox"/>	No Utility in or abutting the alignment	<input 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.

Any utility maintenance or project on 20th St within the project area may not take place during this project's roadway improvements. Coordination with power, communications, pipeline, drainage, sewer, and water utilities will be conducted with each respective owner/operator in advance of construction as part of the design and construction management plan to ensure all corridor access and changes occur seamlessly.

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

<input type="checkbox"/>	AASHTO Guide for Bicycle Facilities	Other:
<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	<input type="text"/>
<input type="checkbox"/>	MAG Complete Streets Guide	
<input 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 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="Not Addressed"/>
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="No"/>
Complete Streets Policy	<input type="text" value="Yes"/>

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**PART B-DETAILED PROJECT DESCRIPTION**

34. The project is: (Check one)

- Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)  
List:
- Consistent with general policy/practices, but not formally identified (provide source)  
Explain:
- Not addressed by jurisdiction's plans, policies, or practices  
Explain:

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

The success of the 20th Street corridor improvements will be determined by its contribution towards a larger citywide bicycle network. By improving this low-stress bicycle corridor, the city looks to improve options for multi-modal transportation alternatives in the area.

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?

Yes, automated bicycle counts may be collected before and after project implementation through annual T2050 bicycle/pedestrian counts.

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.

No

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

No

<b>Part C - Required Attachments</b>
<p>Listed below are the required attachments for this project application. These attachments are intended to demonstrate the need of the project. They should clearly show the segment alignment and features that connect to other bicycle, pedestrian, and/or shared-use facilities, as well as washes, canals, railroad crossings, and other crossing features that may affect the project.</p>
<p><b><u>PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE ON YOUR APPLICATION CD.</u></b></p>
<p>Please insert ALL attachments at the end of your printed application, in the order they are listed below. See below for alternate submission requirements for GIS coverage files.</p>
<b>Required Attachments:</b>
<p>1) Please attach a map showing the general location of the proposed project in relation to the region, including a north arrow.</p>
<p>2) Please attach a map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow.</p>
<p>3) Please attach up to four photos indicating existing conditions in the project area (two 4x6 photos per page).</p>
<p>4) Please attach a 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.</p>
<b>OPTIONAL Attachments:</b>
<p>(OPTIONAL) Attach up to two photos showing what the completed project will look like, if available (these can be photoshop, renderings, etc.).</p>
<p>(OPTIONAL) Attach up to three (3) letters of support for the project.</p>
<p>(OPTIONAL) If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions"</p>

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

**PART D - PROJECT COST ESTIMATE WORKSHEET**  
**(Cost Estimates Are Required Regardless of Programming)**

REQUESTED PROGRAMMING	Location Description	20th Street (Grand Canal - Highland Avenue)								
	Work Description	Bicycle / Pedestrian Corridor Improvements								
Funding Source		TA-MAG								
Preferred Year to Program Work		2023								
COST ESTIMATE FOR PROCUREMENT		UNITS	QUANTITY	UNIT COST	TOTAL	USES FEDERAL AID	FEDERAL	LOCAL		
PROCUREMENT	Procurement - Design	EA	1	\$5,000.00	5,000	No		5,000		
	Procurement - Construction	EA	1	\$8,000.00	8,000	Yes	7,544	456		
	<b>TOTAL - PROCUREMENT</b>					<b>13,000</b>		<b>7,544</b>	<b>5,456</b>	
DESIGN	Location Description	20th Street (Grand Canal - Highland Avenue)								
	Work Description	Bicycle / Pedestrian Corridor Improvements								
	Funding Source	Local								
	Preferred Year to Program Work	2022								
	COST ESTIMATE FOR DESIGN		UNITS	QUANTITY	UNIT COST	TOTAL	USES FEDERAL AID	FEDERAL	LOCAL	
	PRELIMINARY ENGINEERING (15% plans) (Required for Budget)	N/A (PA Previously Completed)	N/A							
	SUBTOTAL - PRELIMINARY ENGINEERING COSTS					-				
	FINAL DESIGN (30, 60, 95, 100% plans) (Required for Budget)	Design (15% of Construction)	EA	1	\$251,172.78	251,173	No		251,173	
		DCM Design Administrative Fee (12% of Construction)	EA	1	\$200,938.22	200,938	No		200,938	
		APS/SRP Design Fee	EA	1	\$10,000.00	10,000	No		10,000	
SUBTOTAL - FINAL DESIGN COSTS					462,111			462,111		
<b>TOTAL PRELIMINARY ENGINEERING AND DESIGN COST AVAILABLE FOR PROGRAMMING</b>					<b>462,111</b>			<b>462,111</b>		
RIGHT OF WAY	Location Description									
	Work Description									
	Funding Source									
	Preferred Year to Program Work									
	COST ESTIMATE FOR RIGHT OF WAY		UNITS	QUANTITY	UNIT COST	TOTAL	USES FEDERAL AID	FEDERAL	LOCAL	
	RIGHT OF WAY COST (Required for Budget, May be 0 if no ROW)	No ROW Required	N/A							
<b>TOTAL - RIGHT OF WAY COSTS</b>					<b>-</b>			<b>-</b>		
CONSTRUCTION	Location Description	20th Street (Grand Canal - Highland Avenue)								
	Work Description	Bicycle / Pedestrian Corridor Improvements								
	Funding Source	TA-MAG								
	Preferred Year to Program Work	2023								

COST ESTIMATE FOR CONSTRUCTION		UNITS	QUANTITY	UNIT COST	TOTAL	USES FEDERAL AID	FEDERAL	LOCAL	
UTILITY RELOCATIONS (Required for Budget, May be 0 if no Utilities)	Utility Adjustments (5% of construction)	EA	1	\$83,724.26	83,724	Yes	78,952	4,772	
	Utility Inspection (1% of construction)	EA	1	\$16,744.85	16,745	Yes	15,790	954	
The cost of utility relocation for the transportation project are eligible for federal aid if the costs/activities involved are directly related to the transportation project. Generally, burying overhead utilities is cost prohibitive.									
SUBTOTAL - UTILITY RELOCATION COSTS					100,469		94,742	5,727	
1. Hardscape Construction	SWPP Allowance (0.7%)	EA	1	\$11,721.40	11,721	Yes	11,053	668	
	Construction Survey and Layout	EA	1	\$30,000.00	30,000	Yes	28,290	1,710	
	Demolition	Sawcut	N/A						
		Remove Existing Striping	LF	19,500	\$1.16	22,620	Yes	21,331	1,289
		Remove Fencing	N/A						
		Remove Structural Concrete	LF	150	\$9.28	1,392	Yes	1,313	79
		Remove Asphaltic Concrete Pavement	SY	18,500	\$39.55	731,675	Yes	689,970	41,705
		Remove Concrete Sidewalks, Slabs	SF	18,000	\$5.65	101,700	Yes	95,903	5,797
	Hazmat Abatement	N/A							
	Retaining Wall - Reinforced Concrete Cantilevered	N/A							
	Earthwork	General Excavation	N/A						
		Drainage Excavation	N/A						
		Structural Excavation	N/A						
		Structural Backfill	N/A						
		Borrow (In Place)	N/A						
	Curb & Gutter	LF	800	\$30.16	24,128	Yes	22,753	1,375	
	Aggregate Base						Yes		
	Pathway Or Sidewalk Materials	Concrete Sidewalk	SF	2,000	\$5.80	11,600	Yes	10,939	661
		Concrete Island	SF	1,000	\$17.40	17,400	Yes	16,408	992
		Pavement Markings (White & Yellow)	LF	60,600	\$0.87	52,722	Yes	49,717	3,005
		Pavement Marking (Preformed)	LF	56	\$174.00	9,744	Yes	9,189	555
		Pavement Marking (Preformed Green)	SF	200	\$17.40	3,480	Yes	3,282	198
	Crosswalk Enhancement	Sign & Post installation (Foundations, Posts)	EA	1	\$9,929.60	9,930	Yes	9,364	566
		Concrete Pavers	N/A						
		Stamped Asphalt	N/A						
		Stamped Concrete	N/A						
		Concrete	N/A						
		Integral Color Concrete	N/A						
	Pedestrian ADA Ramp	EA	9	\$2,900.00	26,100	Yes	24,612	1,488	
	Concrete Driveway Entrance	SF	17,040	\$11.60	197,664	Yes	186,397	11,267	
	Pedestrian Lighting Including Conduit And Trenching	LF	4,500	\$34.80	156,600	Yes	147,674	8,926	
	Handrail	Standard	N/A						
		Decorative	N/A						
	SUBTOTAL HARDSCAPE CONSTRUCTION					1,408,476		1,328,193	80,283
	2. Landscaping & Irrigation Items	Trees Above 15 Gallon In Size As Required Per Local Code Or Special Design Requirements	N/A						
Trees (15 Gallon Size)		N/A							
Trees (5 Gallon Size)		N/A							
Shrubs (5 Gallon Size)		N/A							
Shrubs (1 Gallon Size)		N/A							
Cactus (5 Gallon Size)		N/A							
Mulch		Decomposed Granite	N/A						
		Organic	N/A						
Topsoil		N/A							
Seeding		N/A							
Turf Sod		N/A							
Boulders		N/A							
Irrigation System		Drip	N/A						
		Turf	N/A						
Sleeving For Irrigation System		Directional Bore	N/A						
		Cut and Patch	N/A						
Landscape Header Curb		N/A							
Landscape Establishment	N/A								
SUBTOTAL LANDSCAPING & IRRIGATION ITEMS									
3. Site Furnishings	Benches	N/A							
	Seatwalls	N/A							
	Bike Racks	N/A							
	Trash Receptacles	N/A							
	Drinking Fountains	N/A							
	Signage (Standard Traffic Control)	N/A							
	Signage (Wayfinding)	N/A							
	Tree Grates	N/A							
	SUBTOTAL SITE FURNISHINGS								
	4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects.	Tack Coat Emulsified Asphalt	TON	6	\$870.00	5,220	Yes	4,922	298
2" Surface Course (Asphalt Concrete)		TON	1,994	\$110.20	219,739	Yes	207,214	12,525	
Micro-Surfacing		SY	20,167	\$3.48	70,181	Yes	66,381	4,000	
Flexible Traffic Delineator		EA	40	\$139.20	5,568	Yes	5,251	317	
Raised Pavement Markers		EA	726	\$4.64	3,369	Yes	3,177	192	
Truncated Domes for Sidewalk Ramps		SF	90	\$40.60	3,654	Yes	3,446	208	
Testing Materials (1% of construction)		EA	1	\$16,744.85	16,745	Yes	15,790	954	
Miscellaneous Removal and other work (2%)		EA	1	\$33,489.70	33,490	Yes	31,581	1,909	
Public Information Officer (PIO)		EA	1	\$12,000.00	12,000	Yes	11,316	684	
Project Handoff Admin		EA	1	\$6,520.00	6,520	Yes	6,148	372	
SUBTOTAL OTHER CONSTRUCTION ITEMS					376,485		355,026	21,460	
<b>TOTAL CONSTRUCTION COST</b>					<b>1,885,430</b>		<b>1,777,961</b>	<b>107,470</b>	
MOBILIZATION AND ADMINISTRATION COSTS	CONTRACTOR MOBILIZATION (Typically 8% of construction cost)			2%	37,709	Yes	35,559	2,149	
	TRAFFIC CONTROL (0-8% of construction cost)			4%	75,417	Yes	71,118	4,299	
	CONSTRUCTION CONTINGENCIES (Typically 5% of construction cost)			5%	94,272	Yes	88,898	5,373	
	CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)			20%	377,086	Yes	355,592	21,494	
SUBTOTAL - MOBILIZATION & ADMINISTRATION COSTS					584,483		551,168	33,316	
<b>TOTAL CONSTRUCTION AND MOBILIZATION FOR PROGRAMMING</b>					<b>2,469,914</b>		<b>2,329,129</b>	<b>140,785</b>	

ADOT REVIEW FEE	Please enter 'Yes' if your agency is certified accepted by ADOT for construction		Yes						
	ADOT Review Fee		Agency T	RATE	HOURS	TOTAL	USES FEDERAL AID	FEDERAL	LOCAL
Contracts and Specs \ Advertise Project			Non CA	55	100	\$ -	No	-	-
District \ Review Stage Submittals			Non CA	50	40	\$ -	No	-	-
Environmental Planning \ Issue Clearance			All	50	40	\$ 2,000	No	-	2,000
Right of Way \ Issue Clearance			Non CA	55	24	\$ -	No	-	-
Compliance Review\ Compliance Review			Non CA	175	40	\$ -	No	-	-
Project Management Group\ Project Management			Non CA	120	100	\$ -	No	-	-
Project Management Group\ Project Management			CA Only	120	60	\$ 7,200	No	-	7,200
Utilities and Railroad Sections\ Issue Clearance			Non CA	50	24	\$ -	No	-	-
<b>TOTAL COST ESTIMATE</b>						<b>\$ 2,954,225</b>		<b>2,336,673</b>	<b>617,552</b>

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

PART E - Budget and Signature Page								
Phase	Location Description	Work Description	Year to be Programmed	Funding Source	Federal Amount	Local Amount	Total	Local Share
Procurement	20th Street (Grand Canal - Highland Avenue)	Bicycle / Pedestrian Corridor Improvements	2023	TA-MAG	\$ 7,544	\$ 5,456	\$ 13,000	42.0%
Design, excludes ADOT review fees	20th Street (Grand Canal - Highland Avenue)	Bicycle / Pedestrian Corridor Improvements	2022	Local	\$ -	\$ 462,111	\$ 462,111	100.0%
Construction	20th Street (Grand Canal - Highland Avenue)	Bicycle / Pedestrian Corridor Improvements	2023	TA-MAG	\$ 2,329,129	\$ 140,785	\$ 2,469,914	5.7%
<b>Total Programmed</b>					\$ 2,336,673	\$ 608,352	\$ 2,945,025	20.7%
ADOT Design Review Fee					\$ -	\$ 9,200	\$ 9,200	100.0%
<b>Total Cost</b>					\$ 2,336,673	\$ 617,552	\$ 2,954,225	20.9%

**Signature: To be signed with printed hard copy that is sent to MAG**

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

Signature:

Name: Briiana Valez

Title: Assistant Street Transportation Director

Date: 9/12/2019

## Part F - 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.		Yes
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.		Yes
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.		Yes
PART D - Cost Estimate Worksheet		Complete?
<b>PROCUREMENT</b> (Not applicable for construction projects)	REQUESTED PROGRAMMING (Rows 4-7)	<b>Complete?</b>
	Location Description	Yes
	Work Description	Yes
	Funding Source	Yes
	Preferred Year to Program Work	Yes
	PROCUREMENT/STUDY COSTS (Rows 9-29)	Yes
<b>DESIGN</b> (Applicable for all construction projects; not applicable for procurement projects)	REQUESTED PROGRAMMING (Rows 30-33)	<b>Complete?</b>
	Location Description	Yes
	Work Description	Yes
	Funding Source	Yes
	Preferred Year to Program Work	Yes
	PRELIMINARY ENGINEERING (Rows 35-38)	Yes
	FINAL DESIGN (Rows 40-43)	Yes

<b>Part F - Checklist</b>		
<b>RIGHT OF WAY</b> (Applicable only if ROW is to be acquired)	REQUESTED PROGRAMMING (Rows 46-49)	<b>Complete?</b>
	Location Description	Yes
	Work Description	Yes
	Funding Source	Yes
	Preferred Year to Program Work	Yes
	RIGHT OF WAY COST (Rows 51-63)	Yes
<b>CONSTRUCTION</b> (Applicable for all construction projects; not applicable for procurement projects)	REQUESTED PROGRAMMING (Rows 55-58)	<b>Complete?</b>
	Location Description	Yes
	Work Description	Yes
	Funding Source	Yes
	Preferred Year to Program Work	Yes
	UTILITY RELOCATIONS (Required for Budget, May be 0 if no Utilities) (Rows 90-97)	Yes
	CONSTRUCTION COST	<b>Complete?</b>
	1. Hardscape Construction (rows 99-131)	Yes
	2. Landscaping & Irrigation Items (Rows 133-150)	Yes
	3. Site Furnishings (Rows 152-159)	Yes
	4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects.(Rows 161-170)	Yes
	MOBILIZATION AND ADMINISTRATION COSTS (Rows 173-176)	Yes
ADOT REVIEW FEE	Please enter 'Yes' if your agency is certified accepted by ADOT for construction (Cell E179)	Yes
<b>PART E - Budget and Signature Page</b>		<b>Complete?</b>
Name, title and date fields under the signature are completed.		Yes
<b>PART F - Signature and Checklist</b>		<b>Complete?</b>
Entire checklist is completed.		Yes

## Instructions for the Submittal of GIS Data for CMAQ Funding Applications

It is preferred that, when possible, member agencies submit GIS data representing the locations of projects defined in their CMAG Applications. For member agencies unable to meet this requirement, MAG staff is available to assist in this area. Please contact Nicole Funicello at [nfunicello@azmag.gov](mailto:nfunicello@azmag.gov) if assistance is needed.

### Submission Requirements

GIS Data – Please provide GIS data for each geometry type (point, line, polygon). Example: if you are submitting Project Applications that are for both linear features (bike lanes) and point features (crossings), you would submit a total of two GIS datasets.

File Formats – Agencies that are able to submit GIS data along with CMAQ Applications shall provide the data in formats that are compatible with ESRI products such as shapefiles (.SHP) or Geodatabases (.GDB). Google Earth files (.KMZ or .KML) are also acceptable file formats.

Spatial Reference – The preferred spatial reference system of submitted GIS data is State Plane Arizona Central NAD 83 HARN, however, GIS datasets in any other projection will be accepted.

Attributes – All GIS data submitted shall, at a minimum, have the following attributes:

- **PROJECT\_TITLE** – the name of the project; this should be the same as the Project Title in the Project Application
- **LOCATION** – (optional) a description of the location of the project. Linear features should be described by their start and end locations. Polygon features should be described using streets, water courses, canals, city boundaries, or other landmarks as a means of describing the location of the project.

<Provide screenshot showing graphic link between survey response in Excel and the attribute table.>

**ADOT Review Fees for Certification Accepted Agencies/1**

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Environmental Planning	Issue Clearance	### ####	40	\$ 2,000
Project Management Group	Project Management	#### ###	60	\$ 7,200
<b>SUBTOTAL</b>			<b>100</b>	<b>\$ 9,200</b>
<b>STAFF GRAND TOTAL</b>				<b>\$ 10,000</b>

**ADOT Review Fees for Non Certification Accepted Agencies/1**

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Contracts and Specs	Advertise Project	\$ 55	100	\$ 5,500
District	Review Stage Submittals	\$ 50	40	\$ 2,000
Environmental Planning	Issue Clearance	\$ 50	40	\$ 2,000
Right of Way	Issue Clearance	\$ 55	24	\$ 1,320
Compliance Review	Compliance Review	\$ 175	40	\$ 7,000
Project Management Group	Project Management	\$ 120	100	\$ 12,000
Utilities and Railroad Sections	Issue Clearance	\$ 50	24	\$ 1,200
<b>SUBTOTAL</b>			<b>368</b>	<b>\$ 31,020</b>
<b>STAFF GRAND TOTAL</b>				<b>\$ 31,000</b>

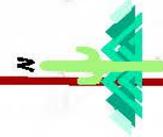
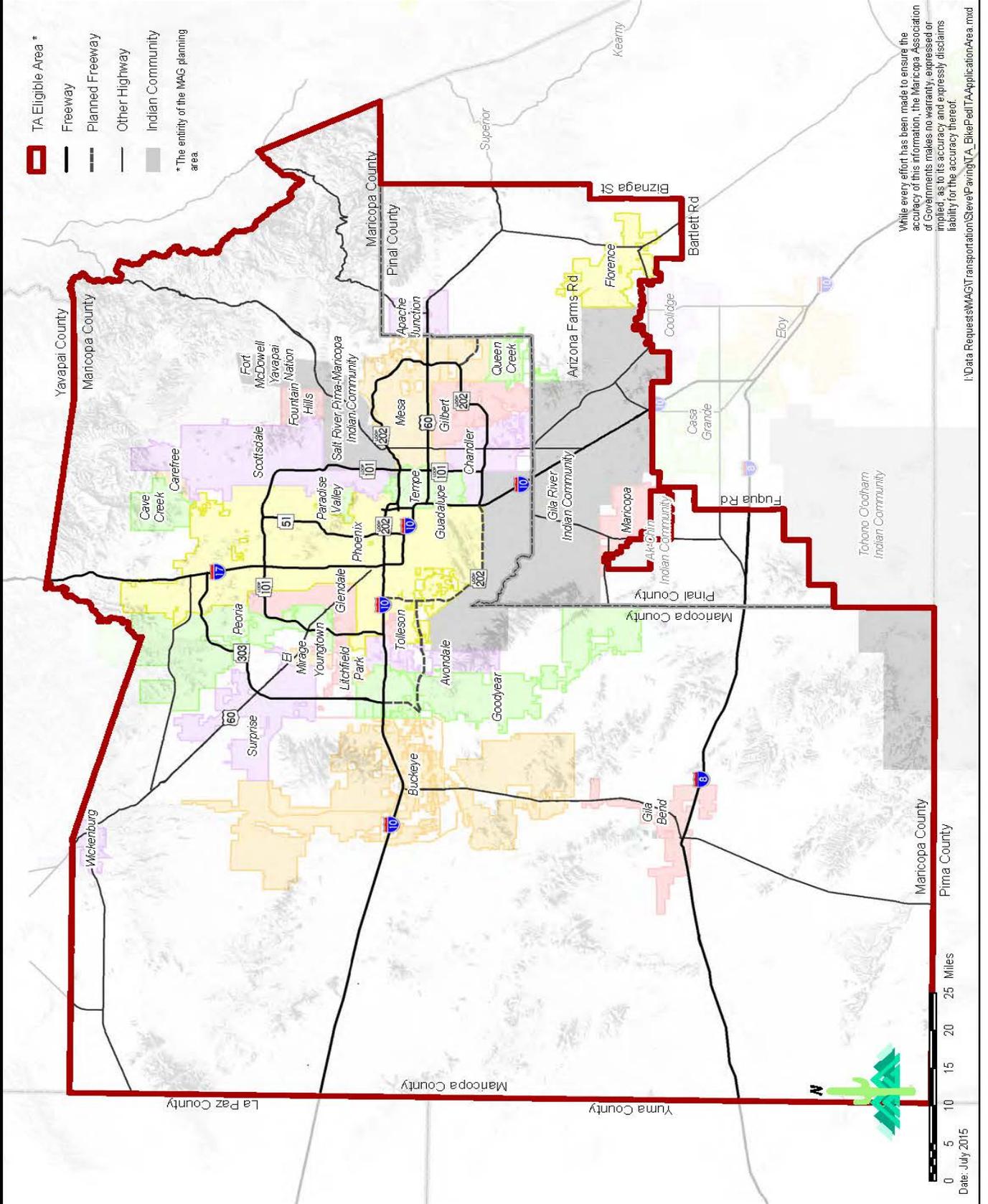
Notes:

1. Based on material provided by ADOT in April 5, 2019. All functions, rates, hours and costs are as listed in the material provided by ADOT. Items listed in the ADOT information for which no



# TA Bicycle/Pedestrian Application Area

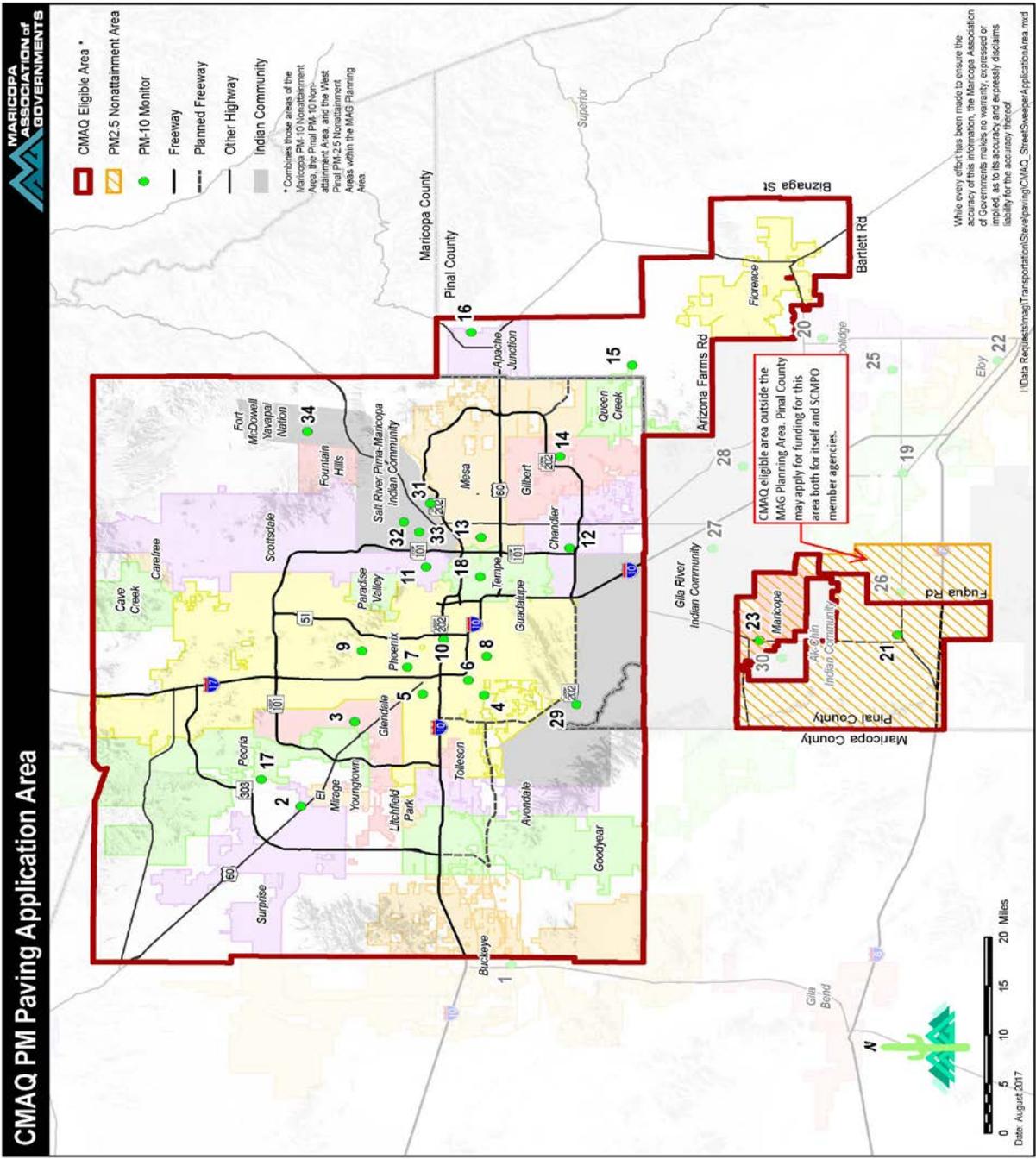
- TA Eligible Area \*
  - Freeway
  - Planned Freeway
  - Other Highway
  - Indian Community
- \* The entirety of the IMAG planning area



0 5 10 15 20 25 Miles  
Date: July 2015

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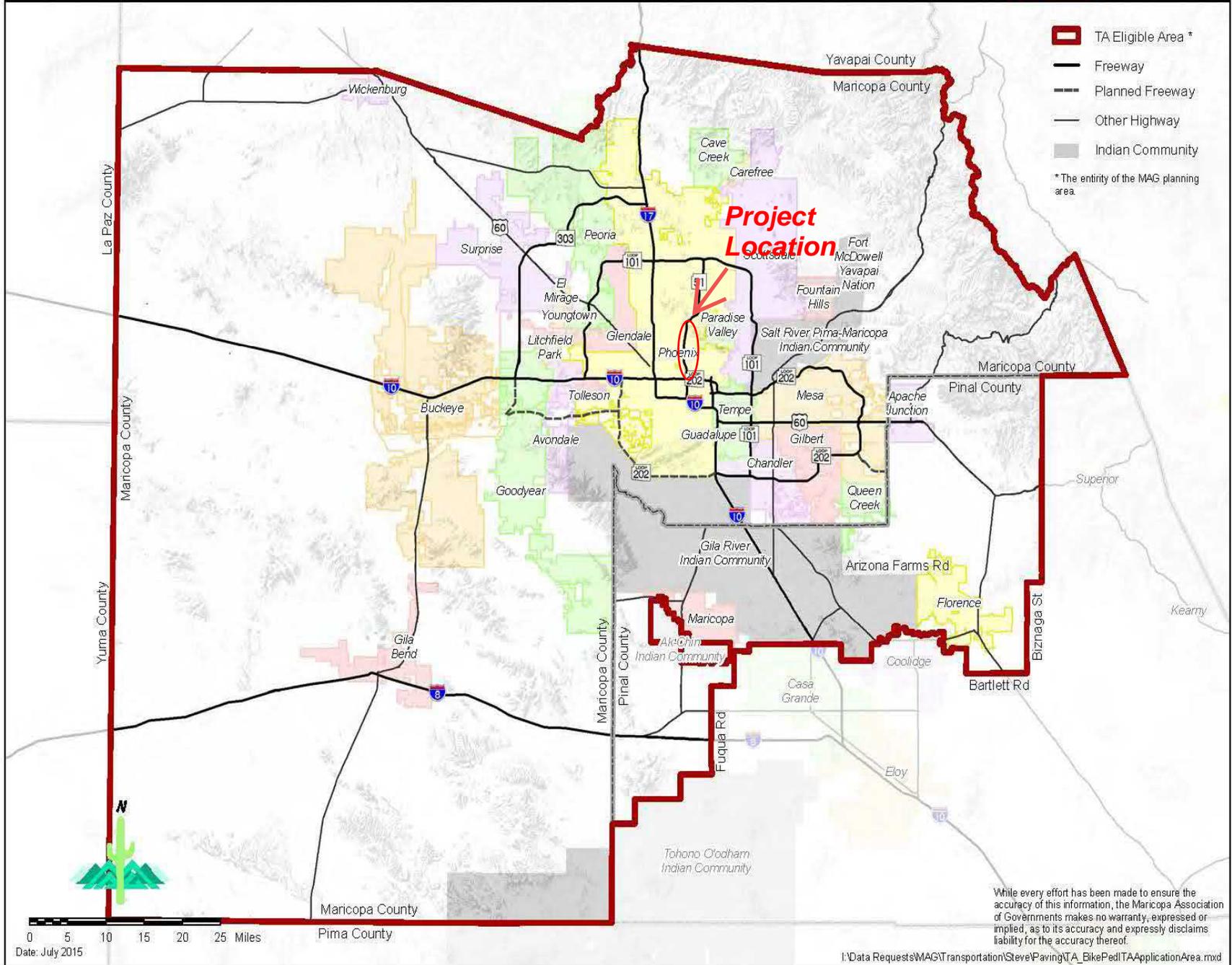
I:\Data Requests\MAG\Transportation\StevePaving\TA\_BikePed\TA-Application-Area.mxd



Map ID	Site ID	Name	Address	City	County	Agency
1	40134011	Buckeye	26449 W. 100th Drive	Buckeye	Maricopa	Maricopa County AQD
2	40134010	Dysart	16825 N. Dysart Road	Surprise	Maricopa	Maricopa County AQD
3	40132001	Glendale	6001 W. Olive Avenue	Glendale	Maricopa	Maricopa County AQD
4	40134009	West 43rd Avenue	3940 W. Broadway Road	Phoenix	Maricopa	Maricopa County AQD
5	40130019	West Phoenix	3847 W. Earll Drive	Phoenix	Maricopa	Maricopa County AQD
6	40139812	Durango Complex	2702 RC Ester Brook Boulevard	Phoenix	Maricopa	Maricopa County AQD
7	40139997	JLG Supersite	4530 N. 17th Avenue	Phoenix	Maricopa	ADEQ
8	40134003	South Phoenix	33 W. Tamarisk Avenue	Phoenix	Maricopa	Maricopa County AQD
9	40131004	North Phoenix	601 E. Butler Drive	Phoenix	Maricopa	Maricopa County AQD
10	40133002	Central Phoenix	1645 E. Roosevelt Street	Phoenix	Maricopa	Maricopa County AQD
11	40133003	South Scottsdale	2857 N. Miller Road	Scottsdale	Maricopa	Maricopa County AQD
12	40134004	West Chandler	275 S. Ellis Street	Chandler	Maricopa	Maricopa County AQD
13	40131003	Mesa	310 S. Brooks Circle	Mesa	Maricopa	Maricopa County AQD
14	40134006	Higley	3391 E. Vest Avenue	Gilbert	Maricopa	Maricopa County AQD
15	40213009	Combs School	301 E. Combs Road	Queen Creek	Pinal	Pinal County AQCD
16	40213002	Apache Junction Fire Station	3955 E. Superstition Boulevard	Apache Junction	Pinal	Pinal County AQCD
17	40134016	Zuni Hills	10851 W. Williams Road	Sun City	Maricopa	Maricopa County AQD
18	40134005	Tempe	1515 S. College Avenue	Tempe	Maricopa	Maricopa County AQD
19	40210001	Casa Grande Downtown	401 N. Marshall Street	Casa Grande	Pinal	Pinal County AQCD
20	40213004	Coolidge Maintenance Yard	212 E. Broadway	Coolidge	Pinal	Pinal County AQCD
21	40213015	Hidden Valley	43750 W. Carefree Place	Maricopa	Pinal	Pinal County AQCD
22	40213014	Eloy County Complex	801 N. Main Street	Eloy	Pinal	Pinal County AQCD
23	40213016	(City of) Maricopa County Complex	19955 N. Wilson Avenue	Maricopa	Pinal	Pinal County AQCD
24	40213007	Pinal Air Park	Water Well #2, Pinal Air Park Road	Marana	Pinal	Pinal County AQCD
25	40213011	Pinal County Housing Complex	970 N. Eleven Mile Corner Road	Casa Grande	Pinal	Pinal County AQCD
26	40213008	Stanfield County Complex	36697 W. Papago Drive	Stanfield	Pinal	Pinal County AQCD
27	40217004	Casa Blanca	3455 W. Casa Blanca Road	Bapchule	Pinal	Gila River Indian Community
28	40217001	Sacaton	45 S. Church Street	Sacaton	Pinal	Gila River Indian Community
29	40137003	St Johns	4208 W. Pecos Road	Laveen	Maricopa	Gila River Indian Community
30	40217030	Ak Chin	47685 W. Eco-Museum Road	Maricopa	Pinal	Ak Chin Indian Community
31	40137022	Lehi	3250 N. Stapley Drive	Mesa	Maricopa	Salt River Pima-Maricopa Indian Community
32	40137024	High School	4827 N. Country Club Drive	Scottsdale	Maricopa	Salt River Pima-Maricopa Indian Community
33	40137020	Senior Center	10844 E. Osborn Road	Scottsdale	Maricopa	Salt River Pima-Maricopa Indian Community
34	40135100	Fort McDowell	18791 Yuma Frank Road	Fort McDowell	Maricopa	Fort McDowell Indian Community

## Required Attachment – Regional Map

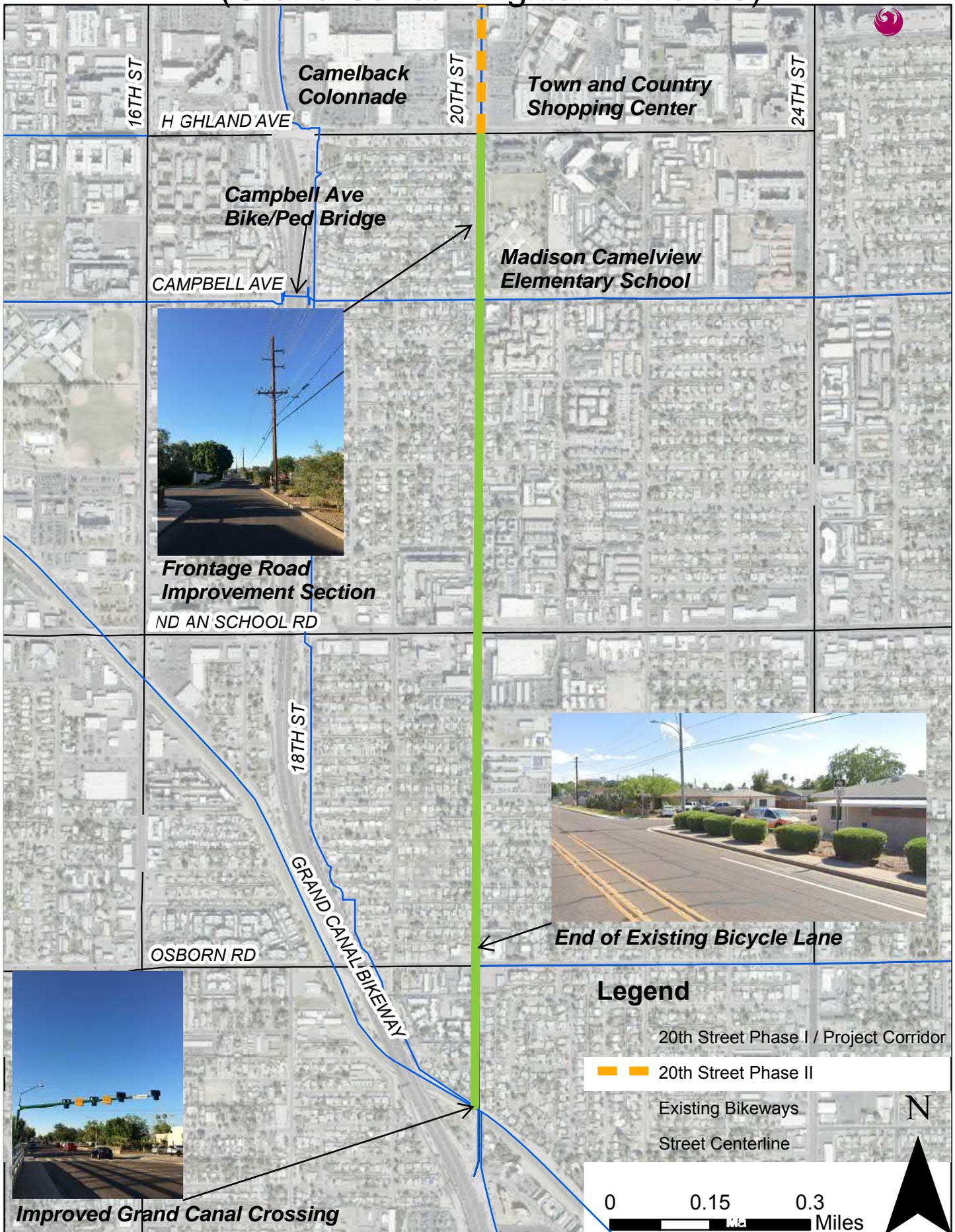
# TA Bicycle/Pedestrian Application Area



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## **Required Attachment – Project Location Map**

# FY 2023 Phoenix 20th St Bicycle Corridor Improvements (Grand Canal - Highland Avenue)



## **Required Attachment – Project Location Photos**



Figure 1 Narrow bicycle lanes and traffic calming features are included between Indian School Rd and Campbell Ave



Figure 2 Existing bicycle lanes are narrow and can accommodate widened within existing curb-to-curb width. ADA facilities, such as curb ramps will be upgraded as well.



Figure 3 The southern end of the project connects directly to the newly reconstructed Grand Canal multi-use path featuring a HAWK for crossing 20th Street.



Figure 4 A small section of frontage road, between Highland Ave and Campbell Ave will be used for the SB bicycle route.

## Required Attachment – Project Diagrams

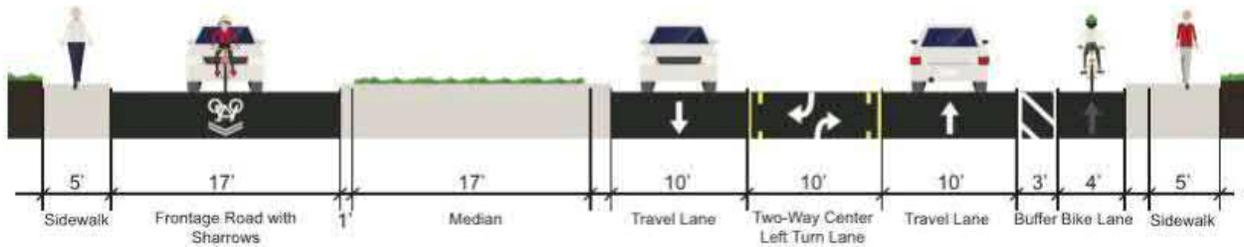


Figure 1 Highland Ave to Campbell Ave

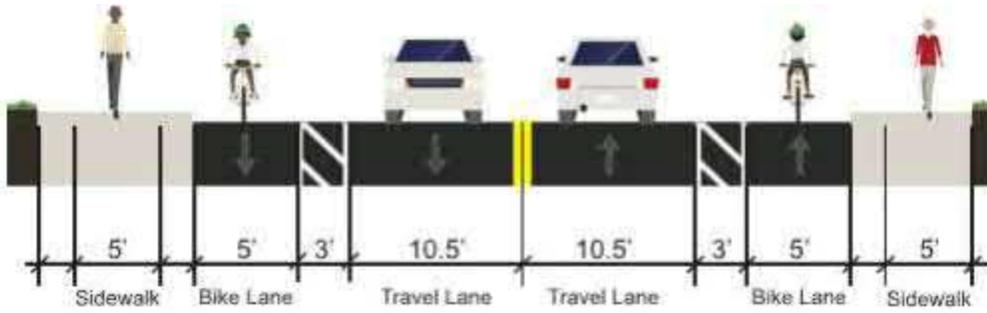


Figure 2 Campbell Ave to Indian School Rd

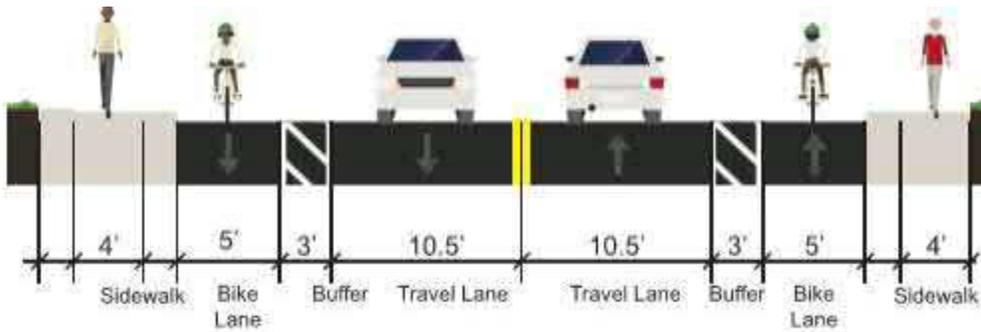


Figure 3 Indian School Rd to Osborn Rd

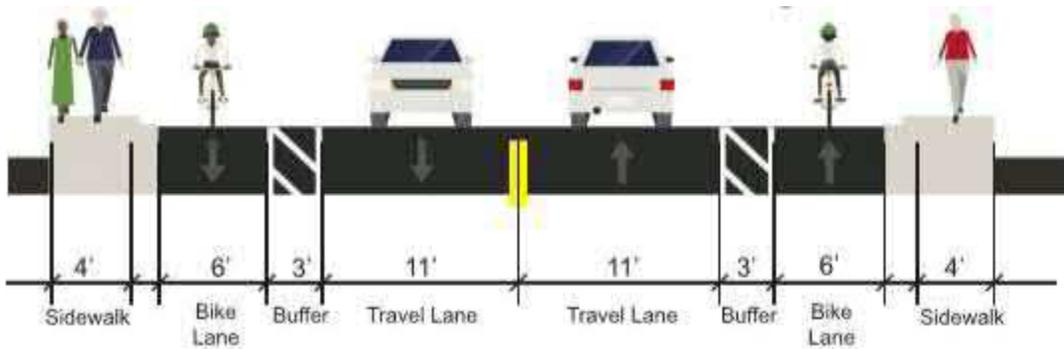


Figure 4 Osborn Rd to Grand Canal Multi-use Path

## **Optional Attachments – Project Renderings**

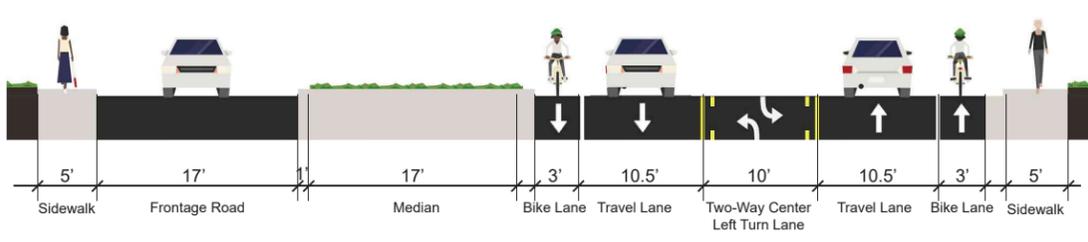
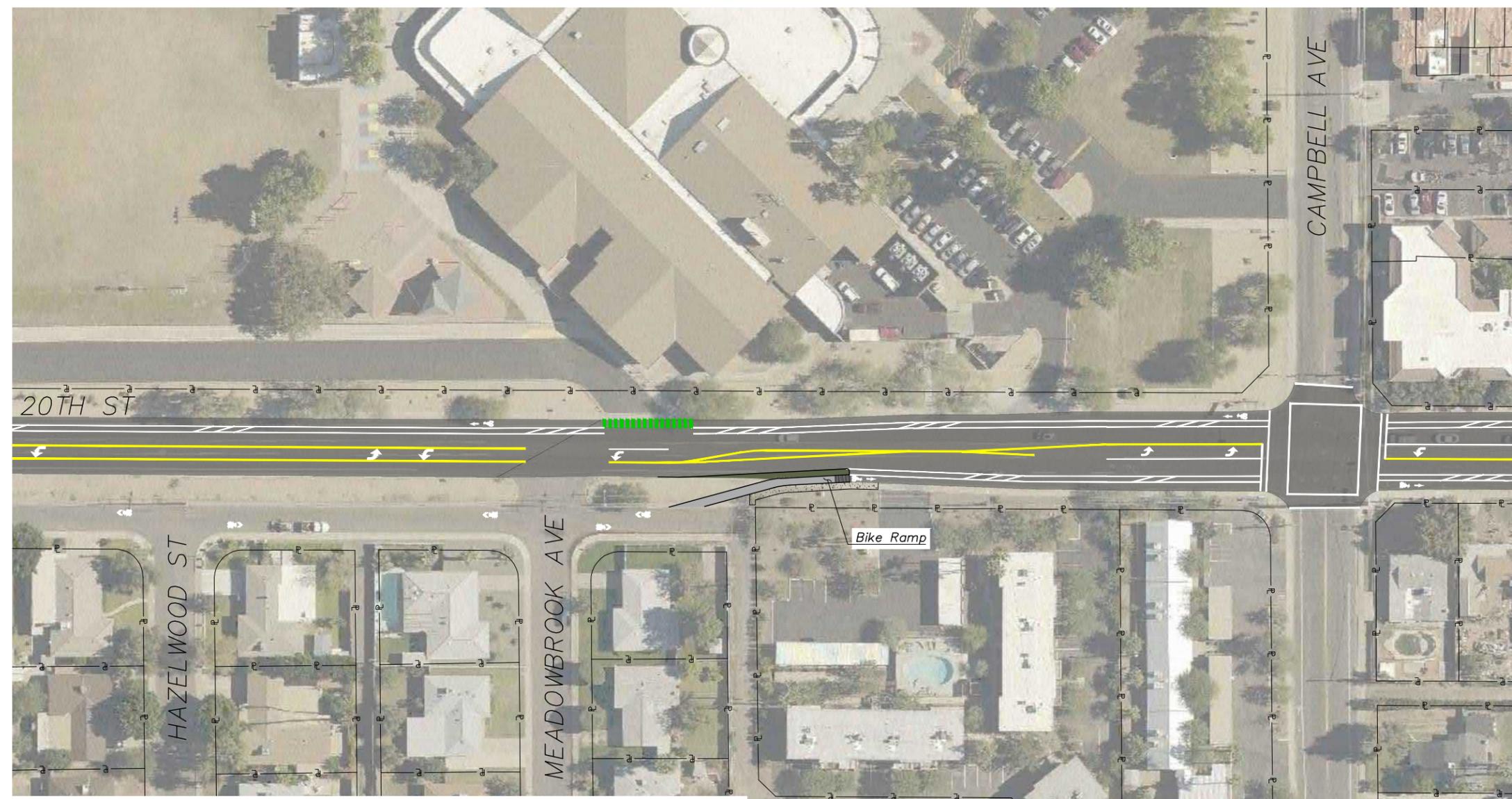
HIGHLAND AVE TO CAMPBELL AVE

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARZ.				
DATE			CONSULTING ENGINEER		
DESIGN: JGA	DRAWN: JGA	CHECKED: JMS			

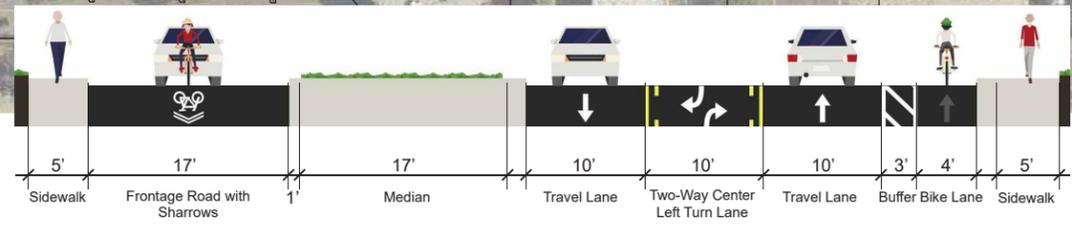
NO.	DESCRIPTION	REV. BY	CHK. BY	DATE

NO.	DESCRIPTION	REV. BY	CHK. BY	DATE

NO.	DESCRIPTION	REV. BY	CHK. BY	DATE



EXISTING CROSS SECTION



PROPOSED IMPROVEMENTS

NOTE:  
Add street lighting along east side of roadway



PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

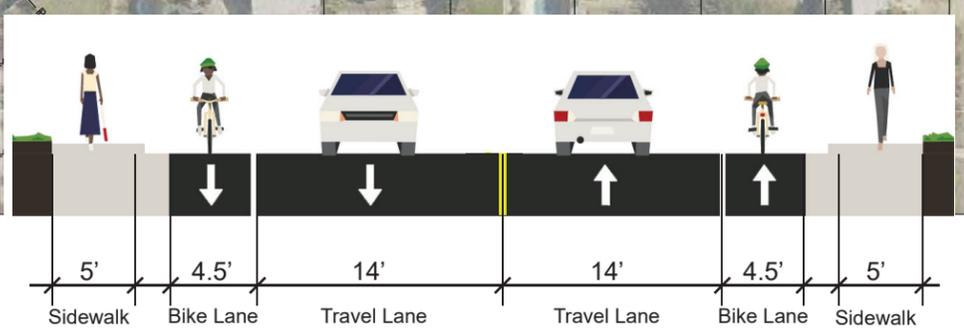
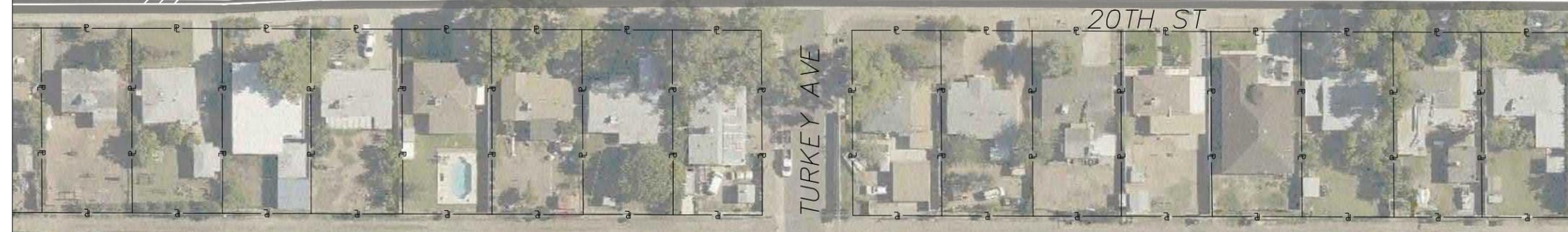
**ROADWAY PLAN SHEETS**  
CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT  
20TH STREET (PHASE 1)  
BIKE/PED IMPROVEMENTS  
HIGHLAND AVE - CAMPBELL AVE

DR: JGA	DES: JGA	CK: JMS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 10/18	DATE: 10/18	DATE: 10/18	6	13	

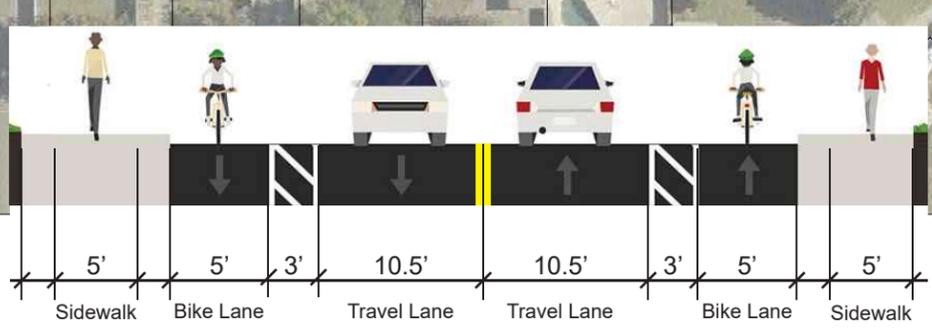


CAMPBELL AVE TO GLENROSA AVE

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				
DATE			CONSULTING ENGINEER		
DESIGN: JGA		DRAWN: JGA		CHECKED: JMS	



EXISTING CROSS SECTION



PROPOSED IMPROVEMENTS

NOTE:  
Add street lighting, one side of roadway



PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

**ROADWAY PLAN SHEETS**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

**20TH STREET (PHASE 1)  
BIKE/PED IMPROVEMENTS  
CAMPBELL AVE - GLENROSA AVE**

DR: JGA	DES: JGA	CK: JMS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 10/18	DATE: 10/18	DATE: 10/18	7	13	
SCALE: 1" = 40'					



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CHK. BY	DATE

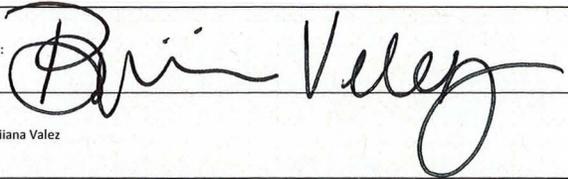
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CHK. BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CHK. BY	DATE

Phoenix : FY 2023 Phoenix 20th Street Bicycle Corridor Improvements(Grand Canal - Highland Avenue)

PART E - Budget and Signature Page								
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Construction	20th Street (Grand Canal - Highland Avenue)	Bicycle / Pedestrian Corridor Improvements	2023	TA-MAG	\$ 2,329,129	\$ 140,785	\$ 2,469,914	5.7%
Total Programmed					\$ 2,336,673	\$ 608,352	\$ 2,945,025	20.7%
ADOT Design Review Fee					\$ -	\$ 9,200	\$ 9,200	100.0%
Total Cost					\$ 2,336,673	\$ 617,552	\$ 2,954,225	20.9%
<b>Signature: To be signed with printed hard copy that is sent to MAG</b>								
As the jurisdiction's manager/administrator or designated representative, I certify that the information contained in this application is accurate and complete and that the local funds for this project will be included in the sponsoring MAG member agency's local current CIP/TIP or budget document if the project is selected for federal funding.								
Signature:								
Name:	Briana Valez							
Title:	Assistant Street Transportation Director							
Date:	9/12/2019							