



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

Maryland Avenue Bike Connection

City of Glendale

**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)

Glendale: Maryland Avenue Bike Connection

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

1. Name of Sponsoring Agency	Glendale
2. Agency Contact Name	Stephanie Stearns
3. Phone Number of Agency Contact	623-930-2036
4. E-Mail Address of Agency Contact	sstearns@glendaleaz.com
5. Mailing Address of Agency Contact	6210 W Myrtle Ave Suite 112 Glendale, AZ 85301

Project Description

6. Please provide the Project Title.	Maryland Avenue Bike Connection
7. Please provide a concise, specific description of the project (250 character limit):	The goal of this project is to fill in a three quarter of a mile length gap of the Glendale bike system. Much of the project is on Maryland Avenue while a small yet relatively complex portion involves mitigating a drainage facility and establishing a bike path.
8. Please provide the project limits:	Maryland Avenue from 75th Avenue to 69th Avenue

Glendale : Maryland Avenue Bike Connection

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 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 checked="" type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input type="checkbox"/> Sidewalk (5' min.) | <input type="text"/> |
| <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="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.

The project site is approximately three-quarters of a mile in length from 69th Ave to 75th Ave. Existing conditions of the project can be broken into three sections. From 69th Ave to approximately 73rd Ave Maryland Ave is a collector street with curb, gutter, and sidewalk on both the north and south sides of the street. From Approximately 73rd Ave to just east of 75th Ave Maryland Ave is a half street with curb, gutter, and sidewalk on the north side of the street only. From just east of 75th Ave to 75th Ave, a distance of approximately 250 feet, is an 8 foot wide drainage facility that is currently being utilized to access 75th Ave. The major problem being addressed will be mitigating the drainage facility just east of 75th Ave and building a multiuse path. Other problems being addressed include signage and pavement markings where applicable throughout the length of the project.

Glendale : Maryland Avenue Bike Connection

PART B-DETAILED PROJECT DESCRIPTION

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

Work done will include mitigating the drainage facility east of 75th Avenue, building a multiuse path, and installing signage and markings where necessary.

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

The intent of this project is to fill a gap in the system by connection two existing bike facilities, which exist east and west of the project area. The project would also provide a multimodal connection where none currently exists and connect neighborhoods, schools, parks, and other regional multiuse paths.

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

Empty text box for other safety improvements.

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

- Yes
- No

Please Explain:

Empty text box for explanation.

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

This project will address safety by narrowing vehicle lanes in certain sections and adding bikelanes. Safety will also be improved by the addition of bike lane signage and striping which confirm the rightful place of cyclists to cyclists and drivers alike. Safety will also be improved in the area just west of 75th Ave where school children are known to walk or bike across the drainage facility to get to and from the schools and neighborhoods on either side of 75th Ave.

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

The multiuse path constructed just east of 75th Ave will be ADA accessible where the current drainage facility that acts as a defacto bicycle and pedestrian access point is not ADA accessible.

Glendale : Maryland Avenue Bike Connection

PART B-DETAILED PROJECT DESCRIPTION

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

There are several schools which collectively serve grades K-12 and neighborhoods on all sides of the project area. The project will provide better pedestrian and bicycle access between the neighborhoods and better access to and from nearby schools.

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

Within the project area is a historic Russian cemetery with graves more than a hundred years old. If the owner of the cemetery is amenable the City will propose incorporating some public art or monument to recognize the historical significance of the cemetery and celebrate the community contributions of the families that are buried there.

14. Connectivity: (Check all that apply)

Project fills a gap in the system
Explain:

The project will fill in a gap of bike facilities on Maryland Ave making for a 4.5 mile contiguous street with bike facilities.

Project connects to other local bikeways
List of connected bikeways:

The project will provide access to the Grand Canal Linear Park.

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:

60 - 30 minute peak frequency
67 - 30 minute peak frequency
70 - 30 minute peak frequency
GUS 1 - 30 minute peak frequency

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

Within 1/2 mile
List:

Glendale : Maryland Avenue Bike Connection

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:

Discovery Park, Glendale Heros Park

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 shopping center with other commercial uses at 75th/Glendale Ave

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

Within 1/2 mile

List:

Discovery School, Challenger Middle School, Desert Garden Elementary School, and Coyote Ridge Elementary School.

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

Within 1/2 mile

List:

Independence High 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:

1/4 miles to 1/2 miles

List:

Walmart shopping center with other commercial uses at 75th/Glendale Ave

Glendale : Maryland Avenue Bike Connection

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:

Maryland Avenue from 69th Ave to 75th Ave

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

Glendale : Maryland Avenue Bike Connection

PART B-DETAILED PROJECT DESCRIPTION

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

Source:

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 type="checkbox"/>	Private Structures
<input checked="" type="checkbox"/>	Canals & Drainage		
<input type="checkbox"/>	Power Lines & Cables		Other:
<input type="checkbox"/>	Pipelines, Sewer and Water	<input type="text"/>	

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

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

<input type="checkbox"/>	AASHTO Guide for Bicycle Facilities	<input type="text" value="Other:"/> <input type="text"/>
<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	
<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="Recommended"/>
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="text" value="Recommended"/>
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Recommended"/>
With new development or during development retrofits, shared-use paths are:	<input type="text" value="Recommended"/>
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)

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:

Glendale : Maryland Avenue Bike Connection

PART B-DETAILED PROJECT DESCRIPTION

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

Applicant will conduct bicycle/pedestrian before and after project is constructed to determine if the capital improvements resulted in an increase of use.

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?

n/a

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, transportation staff will work with the Traffic Education Program Manager to develop a messaging campaign for adjacent schools and neighborhoods.

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

n/a

Part C - Required Attachments
<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><u>PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE ON YOUR APPLICATION CD.</u></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>
Required Attachments:
<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>
OPTIONAL Attachments:
<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>

Glendale: Maryland Avenue Bike Connection

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:	City of Glendale	Project Title:	Maryland Ave Bike Connection	Application Date:	23-Oct-17
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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)	
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$43,819.35	\$43,819.35	No	\$0.00	\$43,819.35		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00		
	4. HAZMAT ASSESSMENT	LS	1		\$0.00	No	\$0.00	\$0.00		
	Subtotal Scoping (Part A)				\$63,819.35		\$0.00	\$63,819.35		
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$43,160.00	\$43,160.00	No	\$0.00	\$43,160.00		
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$4,000.00	\$4,000.00	No	\$0.00	\$4,000.00		
	3. DRAINAGE REPORT	LS	1	\$3,000.00	\$3,000.00	No	\$0.00	\$3,000.00		
	4. SWPPP	LS	1	\$2,000.00	\$2,000.00	No	\$0.00	\$2,000.00		
	Subtotal PE (Part B)				\$52,160.00		\$0.00	\$52,160.00		
Subtotal Preliminary Engineering (Part A + Part B)					\$115,979.35		\$0.00	\$115,979.35		
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	SF	3,500	\$2.00	\$7,000.00	No	\$0.00	\$7,000.00		
Subtotal Right-of-Way Acquisition (Part C)					\$7,000.00		\$0.00	\$7,000.00		
D. Utility Relocation	1. Utility Relocation	LS	1	\$10,000.00	\$10,000.00	No	\$0.00	\$10,000.00		
Subtotal Utility Relocation (Part D)					\$10,000.00		\$0.00	\$10,000.00		
E. Construction Or Implementation (For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4)	1. Hardscape Construction	Installation Of SWPP Measures		LS	1	\$200.00	\$200.00	Yes	\$188.60	\$11.40
		Site Preparation		LS	1		\$0.00	Yes	\$0.00	\$0.00
		Demolition	Sawcut	LF	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Structures and Obstructions	LS	1	\$5,000.00	\$5,000.00	Yes	\$4,715.00	\$285.00
			Remove Fencing	LF	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Structural Concrete	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Asphaltic Concrete Pavement	CY	1	\$330.00	\$330.00	Yes	\$311.19	\$18.81
			Remove Concrete Sidewalks, Slabs	CY	1	\$1,800.00	\$1,800.00	Yes	\$1,697.40	\$102.60
		Hazmat Abatement		LS	1		\$0.00	Yes	\$0.00	\$0.00
		Retaining Wall - Reinforced Concrete Cantilevered		SF	1	\$18,000.00	\$18,000.00	Yes	\$16,974.00	\$1,026.00
		Earthwork	General Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Drainage Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Structural Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Structural Backfill	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Borrow (In Place)	CY	1		\$0.00	Yes	\$0.00	\$0.00
		Curb & Gutter		LF	500	\$17.50	\$8,750.00	Yes	\$8,251.25	\$498.75
		Aggregate Base		CY	1		\$0.00	Yes	\$0.00	\$0.00
		Pathway Or Sidewalk Materials	Concrete	SF	3,200	\$10.00	\$32,000.00	Yes	\$30,176.00	\$1,824.00
			Colored Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Stamped Color Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Precast Concrete Pavers	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Asphaltic Concrete	SF	600	\$3.10	\$1,860.00	Yes	\$1,753.98	\$106.02
			Polymer or Resin Stabilized Surface	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Crosswalk Enhancement	Concrete Pavers	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Stamped Asphalt	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Stamped Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
		Integral Color Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00
		Pedestrian ADA Ramp		Each	1	\$2,500.00	\$2,500.00	Yes	\$2,357.50	\$142.50
		Drainage Improvements, pipe, catch basins, manhole, ets		LS	1	\$44,700.00	\$44,700.00	Yes	\$42,152.10	\$2,547.90
Pedestrian Lighting Including Conduit And Trenching		Each	4	\$5,000.00	\$20,000.00	Yes	\$18,860.00	\$1,140.00		
Fencing	Standard	LF	1		\$0.00	Yes	\$0.00	\$0.00		
	Decorative	LF	600	\$85.00	\$51,000.00	Yes	\$48,093.00	\$2,907.00		
Subtotal Hardscape Construction					\$186,140.00		\$175,530.02	\$10,609.98		

Glendale: Maryland Avenue Bike Connection

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:	City of Glendale	Project Title:	Maryland Ave Bike Connection	Application Date:	23-Oct-17
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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	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	Landscape Restoration (Irrigation, DG, planting)	SF	7,000	\$3.00	\$21,000.00	Yes	\$19,803.00	\$1,197.00		
		Trees (15 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
		Trees (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
		Shrubs (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
		Shrubs (1 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
		Cactus (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00		
		Mulch	Decomposed Granite	CY	1		\$0	Yes	\$0	\$0	
			Organic	CY	1		\$0	Yes	\$0	\$0	
		Topsoil		CY	1		\$0	Yes	\$0	\$0	
		Seeding		Acre	1		\$0	Yes	\$0	\$0	
		Turf Sod		SY	1		\$0	Yes	\$0	\$0	
		Boulders		Each	1		\$0	Yes	\$0	\$0	
		Irrigation System	Drip	SF	1		\$0	Yes	\$0	\$0	
			Turf	SF	1		\$0	Yes	\$0	\$0	
		Sleeving For Irrigation System	Directional Bore	LF	1		\$0	Yes	\$0	\$0	
	Cut and Patch		LF	1		\$0	Yes	\$0	\$0		
	Landscape Header Curb		LF	1		\$0	Yes	\$0	\$0		
	Landscape Establishment		LS	1		\$0	Yes	\$0	\$0		
	Subtotal Landscaping & Irrigation Items					\$21,000		\$19,803	\$1,197		
	3. Site Furnishings	Benches	Each	1		\$0	Yes	\$0	\$0		
		Seatwalls	LF	1		\$0	Yes	\$0	\$0		
		Bike Racks	Each	1		\$0	Yes	\$0	\$0		
		Trash Receptacles	Each	1		\$0	Yes	\$0	\$0		
		Drinking Fountains	Each	1		\$0	Yes	\$0	\$0		
		Signage (Standard Traffic Control)	Each	14	\$375	\$5,250	Yes	\$4,951	\$299		
		Signage (Wayfinding)	Each	1		\$0	Yes	\$0	\$0		
		Tree Grates	Each	1		\$0	Yes	\$0	\$0		
		Subtotal Site Furnishings					\$5,250		\$4,951	\$299	
		4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Bicycle and Pedestrian Counter	Each	1		\$0	Yes	\$0	\$0	
	Pavement Marking, White Traffic Paint, 4" Equivalent		LF	6,000	\$0.50	\$3,000	Yes	\$2,829	\$171		
	Pavement Symbol, Bike Lane		Each	15	\$250	\$3,750	Yes	\$3,536	\$214		
	Pavement Symbol, Arrow		Each	14	\$250	\$3,500	Yes	\$3,301	\$200		
	Unidentified items		LS	1	\$12,700	\$12,700	Yes	\$11,976	\$724		
	Reconstruct Speed Cushions		Each	3	\$2,500	\$7,500	Yes	\$7,073	\$428		
	Bike push button at signalized crossing		Each	1	\$1,800	\$1,800	Yes	\$1,697	\$103		
					1		\$0	Yes	\$0	\$0	
					1		\$0	Yes	\$0	\$0	
					1		\$0	Yes	\$0	\$0	
	Subtotal Other Construction					\$32,250		\$30,412	\$1,838		
	5. Mobilization And Administration Costs	Contractor Mobilization	LS	1	\$4,300	\$4,300	No	\$0	\$4,300		
		Traffic Control	LS	1	\$10,600	\$10,600	Yes	\$9,996	\$604		
		Construction Survey & Layout	LS	1	\$900	\$900	Yes	\$849	\$51		
		Construction Contingencies	LS	1	\$10,000	\$10,000	Yes	\$9,430	\$570		
		Construction Administration	LS	1	\$8,290	\$8,290	Yes	\$7,817	\$473		
	Subtotal Mobilization & Administration Costs					\$34,090		\$28,092	\$5,998		
Subtotal Construction Or Implementation Cost (Part E)					\$278,730		\$258,787	\$19,943			
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)					\$411,709		\$258,787	\$152,922			
G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,000					\$30,000	No	\$0	\$30,000			
H. Total Project Cost Including ADOT Fees (Part F + Part G)					\$441,709		\$258,787	\$182,922			

Glendale: Maryland Avenue Bike Connection

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 Segments	Cost	Additional Notes (if needed)
1. ADOT Fee	\$30,000	
2. Design	\$115,979	
3. Right of way	\$7,000	
4. Utilities	\$10,000	
5. Construction	\$268,730	
6. Contingency	\$10,000	No more than 20% of Construction Cost
7. Total Cost	\$441,709	

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

9. Expected Annual Maintenance Cost \$500

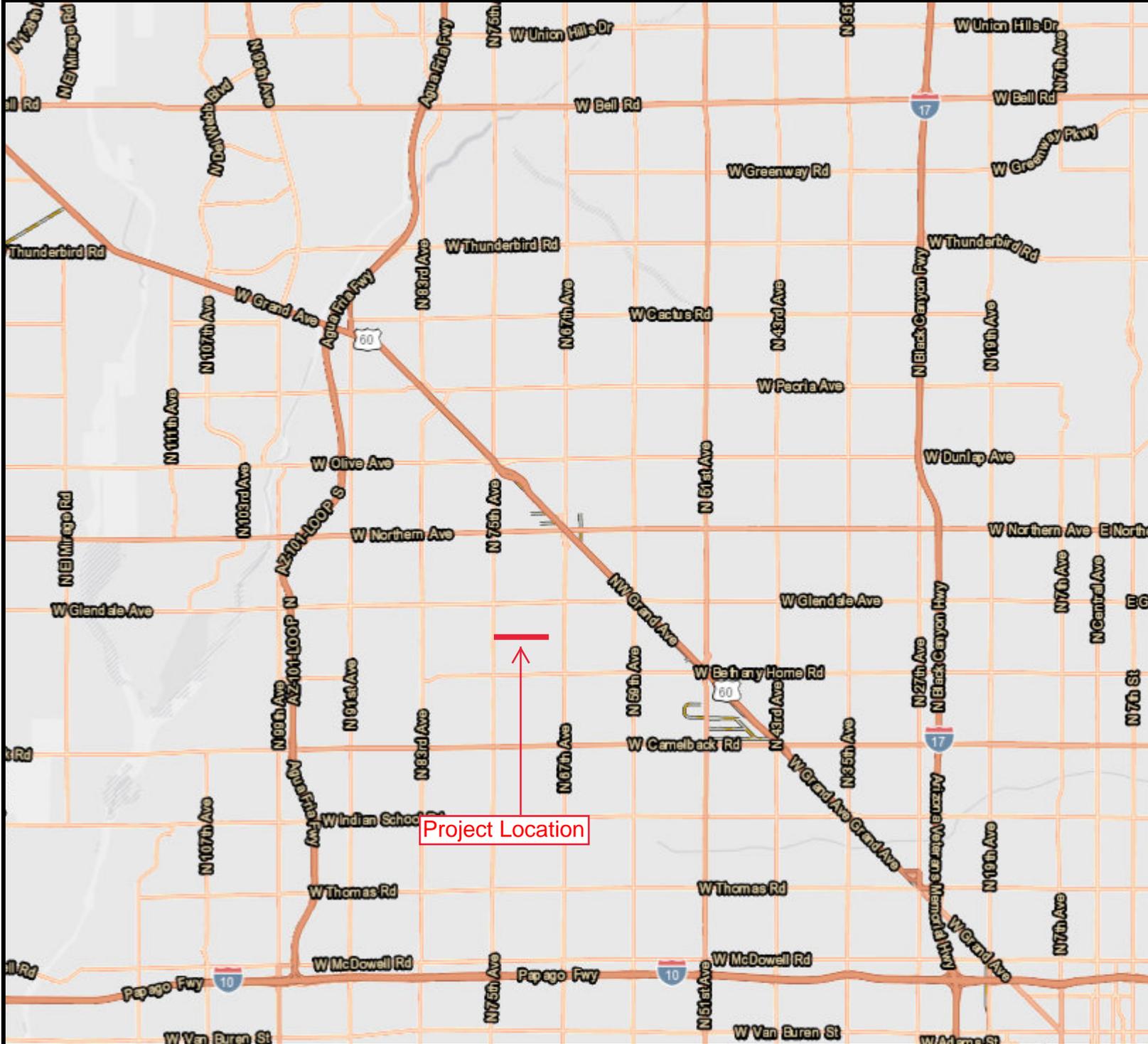
10. Identify Source of Maintenance Funds Transportation Sales Tax/ GO! Program

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)	2018	Design Bike Connection (15% Plans MAG Funded)	Sales Tax	\$115,979	Not Available	\$115,979	100.0%
12. Right of way (Optional)	2018	Convert easement to bike path ROW	Sales Tax	\$7,000	Not Available	\$7,000	100.0%
13. Utilities (Optional)	2018	Coordinate and relocate utilities in conflict	Sales Tax	\$10,000	Not Available	\$10,000	100.0%
14. Other (Optional)	2019	ADOT Fee	Sales Tax	\$30,000	Not Available	\$30,000	100.0%
15. Construction	2021	Construct bike path and stipe bike lane on Maryland Ave	Sales Tax	\$15,888	\$262,842	\$278,730	5.7%
16. Total Costs				\$178,867	\$262,842	\$441,709	40.5%

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 <u>manager/administrator or designated representative</u> , 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:	Kevin Phelps
Title:	City Manager
Date:	

Maryland Ave Bike Connection



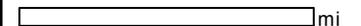
Total Population
American Community Survey
2011-2015 5yr

- 0 - 1,091
- 1,091 - 1,780
- 1,780 - 2,741
- 2,741 - 4,757
- 4,757 - 10,693
- No Data

Notes:



3.5



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.



Image #1: Eastern boundary of project area, looking west, where bike facilities on Maryland Ave end at 69th Ave.



Image #2: Looking west where Maryland Ave dead-ends. City of Glendale has an easement on the south side of private property, likely the location for a shared use path to access 75th Ave on the other side of private property.

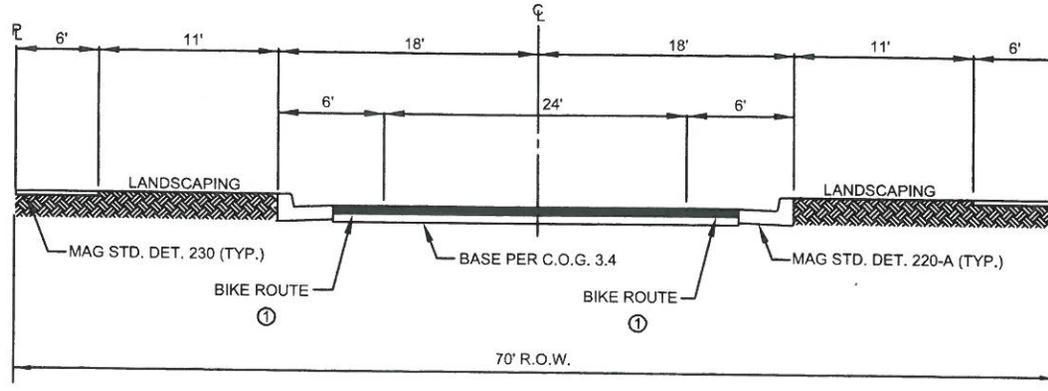


Image #3: Looking east at the western most boundary of the project area. The drainage facility is the current location of the City of Glendale's easement with private property owner and likely location of a shared use path.



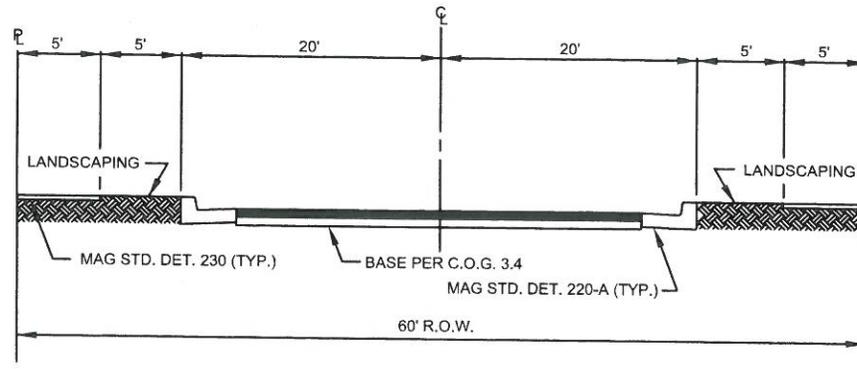
Image #4: West side of project area, looking west, where bike facilities resume. This is on Maryland Ave, west side of 75th Ave, adjacent to Independence High School.

COLLECTOR SECTION C-1 (SEE PARA. 4.14.A.)



- ① OPTIONAL; AS REQUIRED BY THE ADOPTED BIKE PLAN OR CITY TRAFFIC ENGINEER.
- ② CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

COLLECTOR SECTION C-2 (SEE PARA. 4.14.B.)



- ① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

**CITY OF GLENDALE
STANDARD DETAIL**



**COLLECTOR SECTION
C-1 AND C-2**

APPROVED BY:
CITY
ENGINEER

David D. Beard, P.E.

DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO.
G-304

PART F - SIGNATURE AND CHECKLIST

Checklist

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SIGNATURE(S):

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Signature:	
Name:	Kevin Phelps
Title:	City Manager
Date:	9-15-17