

PEDESTRIAN, BICYCLE and SHARED-USE FACILITY PROJECT APPLICATION

General Instructions:

This Excel form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for Bicycle Projects to be included in the FY2014-FY 2018 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2015, 2016 and 2017.

This application form includes:

- Part A - Contact and Project Description,
- Part B - Segment Description and Proposed Improvements,
- Part C - Total Project Budget and Schedule,
- Part D - Checklist and Signature Page, and Transmittal Instructions and Schedule.

Each part is a separate tab of this excel file. Please complete Parts A - D. Alternative application forms are available upon request.

Deadlines and Transmittal Instructions:

Two copies of a printed, complete and signed application must be received in the MAG offices by **10:00 a.m. Wednesday, September 19, 2012**. The application is to be submitted electronically and should include ArcGIS shape files depicting the project location if they are available.

Detailed transmittal instructions are located in a separate tab in this excel sheet. Late applications **will not be accepted.**

If member agencies need additional information or have questions, they should contact Teri Kennedy or Stephen Tate at (602) 254-6300 or contact them by e-mail at the following addresses:

- <mailto:state@azmaq.gov>
- <mailto:tkennedy@azmaq.gov>
- <mailto:MDeCindis@azmaq.gov>

All information is required, unless noted by the word - Optional.

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information	
1. Sponsoring Agency	Maricopa County
2. Contact Name	Samir Hatab, P.E.
3. Phone	602-506-2867
4. E-Mail Address	SamirHatab@mail.maricopa.gov
5. Mailing Address	2901 West Durango Street Phoenix, AZ 85015

Project Description 6. Please provide the Project Title.	McDowell Road, 76th Street to Usery Pass Road
7. Please provide a general description of the project (Please no more than 200 characters)	
<p style="text-align: center;">Construct paved shoulder and bike lane on both sides</p>	
8. Please attach a map with streets labeled showing the location(s) of the bicycle/shared-use facility.	Please attach map with transmittal

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

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.

CMAQ Funding Eligibility

All Pedestrian, Bicycle and Shared-Use projects to be funded with federal CMAQ funds must be located in the 8-Hour Ozone Nonattainment Area. Please use the following link to verify that the project is in the nonattainment area.

[Links to 8-Hr Ozone Nonattainment Area Map](#)

Section 1 - Project Description

1. What is the type of bicycle project? (Check all that apply)

<input checked="" type="checkbox"/> Bicycle lane (4' min. w/o curb/gutter)	<input checked="" type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 monitor Link MAG Webpage for Map of PM-10 Monitor Locations
<input type="checkbox"/> Bicycle lane (5' min. with curb/gutter)	<input type="checkbox"/> Signalized crossing
<input type="checkbox"/> Shared-use path (10' min.)	<input type="checkbox"/> Signalized midblock crossing/HAWK
<input type="checkbox"/> Bridge (overpass)	<input type="checkbox"/> Mid-block crossing w/ pedestrian refuge
<input type="checkbox"/> Tunnel (underpass)	Other <input type="text"/>
<input checked="" type="checkbox"/> Paved shoulders (5' min.).	

1a. What is the type of pedestrian project? (Check all that apply)

<input type="checkbox"/> Sidewalk (5' min.)	<input type="checkbox"/> Signalized crossing
<input type="checkbox"/> Wide sidewalk (8' min.)	<input type="checkbox"/> Signalized midblock crossing/HAWK
<input type="checkbox"/> Detached sidewalk (4' min. buffer)	<input type="checkbox"/> Mid-block crossing w/ pedestrian refuge
<input type="checkbox"/> Bridge (overpass)	Other <input type="text"/>
<input type="checkbox"/> Tunnel (underpass)	

2. Please describe the facility on which the improvement will be located.

For a linear feature please enter the Facility Name, Starting Limit and Ending Limit. For a point feature (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)

Through Lanes

The application submission will include ArcGIS shapefiles.

3. Please provide a map, aerial map, graphics and photos that clearly show the segment alignment and features that connect to other bicycle facilities and that cross into or about the alignment such as: washes, canals, railroad crossings, and other crossing features that may affect the project.

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

4. Please provide a simple diagram of the current typical cross section, including widths, of the segment that shows the right of way limits, sidewalks and shoulders (if any), and the lanes of travel.

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

5. Please provide an estimated traffic volume (ADT) below.

ADT Estimate

Date Counted

Name of road the traffic count was taken from

Description of Methodology used for the ADT Estimate

6. 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.

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

7. 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

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

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

- No Utility in or abutting the alignment
- Canals & Drainage
- Power Lines & Cables

- Pipelines, Sewer and Water
- Private Structures

Other

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

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

The relocation of 4 power poles.

Section 2 - Proposed Improvements

11. Please describe the work to be performed on the project:

Construct 5 ft wide bicycle lanes by widening the existing pavement or restriping the existing pavement where the roadway wi

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

- AASHTO Guide for Bicycle Facilities
- MAG Pedestrian Policies and Design Guidelines
- MAG Complete Streets Guide

Other AASHTO A Policy on Geometric Design of Highways and Streets
 AASHTO Roadside Design Guide
 Manual on Uniform Traffic Control Devices

13. Why is this project an enhancement to the local and/or regional transportation system? Is this a one-time opportunity?

This project will link colleges, schools, neighborhoods and downtown Phoenix with Usery Mountain Regional Park and the Maricopa County Trail System.

14. Please describe the current surface condition of the proposed project

Throughout the extent of the project, the shoulders are partially or fully paved. Therefore, some segments will only require striping while others will require additional blading and paving.

15a. Safety improvements to be included for bike facilities: (Check all that apply)

- Wide bike lanes (6'-7')
- Grade-separated crossing (overpass or underpass)
- Signalized crossing
- Path lighting

Buffer Zone, Width

Other

15b. Safety improvements to be included for pedestrian facilities: (Check all that apply)

- Wide sidewalk (8' min.)
- Grade-separated crossing (overpass or underpass)
- Signalized crossing
- Path lighting
- Shade

Buffer Zone, Width

Other

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

16a. Number of convenience improvements to be included for bike facilities:

- Number of Drinking Fountains
- Number of Way-finding Signs
- Number of Bike racks/lockers
- Number of Trash receptacles
- Number of Seating/Rest(s)

Number of Trees/shade structures

Other

16b. Number of convenience improvements to be included for pedestrian facilities:

- Number of Drinking Fountains
- Number of Way-finding Signs
- Number of Trash receptacles
- Number of Seating/Rest(s)

Number of Trees/shade structures

Other

17. How does this project improve upon an existing safety issue?

This project improves traffic efficiency and promotes multi-modal transportation by improving the route for thousands of cyclists, motorcycles, cars and buses sharing the road. The additional shoulders and bike lanes allows room for vehicles to make evasive maneuvers with the additional recovery area to regain control.

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

N/A

19. Connectivity: (Check all that apply)

- Project fills a gap in the system
- Project connects to other local facilities

Project is on a regional facility
Regional Facility Name

Multi Jurisdiccional Project
List of Participating Jurisdictions

Number of transit routes and Park & rides served.
List: route number(s)/park & ride(s) served.

20. Total length of facility connected by this project (in miles)

Miles of facilities connected

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

21. Number of activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

0 Within 1/4 mile
List:

1 1/4 mile to 1/2 mile
List:

1 1/2 mile to 1 mile
List:

22. Number of commercial destinations (malls, retail centers, business parks, etc.) and transit services (bus/rail routes, stops, and stations) this project will benefit:

0 Within 1/4 mile
List:

0 1/4 mile to 1/2 mile
List:

2 1/2 mile to 1 mile
List:

23. Number of schools (public elementary, middle, and high schools, colleges, and universities) this project will benefit:

1 Within 1/4 mile
List:

1 1/4 mile to 1/2 mile
List:

4 1/2 mile to 1 mile
List:

24. What are the demographics of the area served:

- < 5 Units Housing Density (Number of dwelling units per acre) within 1/2 mile
- The project is in a block group where the average household income is less than \$26,000/year (Use blockgroup data from the Census 2010)
- X The project is in an area that serves adults over the age of 60 years (Use blockgroup data from the Census 2010)

PART B-PEDESTRIAN, BICYCLE & SHARED-USE PROJECT DESCRIPTION AND PROPOSED IMPROVEMENTS

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

With new development and capital improvement projects, bike lanes on arterial streets are:	Required
With new development and capital improvement projects, bike lanes on collector streets are:	Required
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	Recommended
With new development or during development retrofits, shared-use paths are:	Not Addressed
Bicycle program implemented, including bike education, safety events, and bike maps	Not Addressed
Complete Streets Policy	Not Addressed

26. The project is: (Check one)

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

27. Describe how this project will be publicized to the general public.

MCDOT will utilize internal Public Information Professionals to provide information on the upcoming project through sources such as mail notification and website. Additionally, updates will be provided during the pre-construction and construction process.

28. How will you determine customer satisfaction/evaluation?

Satisfaction/evaluation will be evident in usage.

PART C - TOTAL PROJECT SCHEDULE AND BUDGET INCLUDING ALL SEGMENTS

Please provide a cost and programming estimate for the total project (e.g. the cost to complete all planned segment improvements). 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 the segment description(s) in Part B(s).

Cost Estimate for the Project Including ALL Segments	Cost	Optional (Additional Notes)
1. ADOT Fee	20,000	None
2. Design	125,000	None
3. Right of way	21,000	None
4. Utilities	60,000	None
5. Construction	508,400	Includes Construction Management
6. Contingency	82,000	20% of Construction Costs
7. Total Cost	816,400	None

8. Please attach a detailed cost estimate if available. [Link to MAG Webpage for Bike-Ped Cost Form](#)

9. Will the agency maintain the Improvement after it is completed?

10. Expected Annual Maintenance Cost

0	Note
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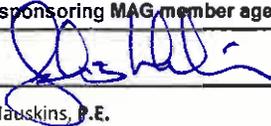
Requested MAG Programming	Year	Local Funding Source	Local Cost	Federal Cost	Total Cost
11. Design	2013	HURF	125,000	Not Available	125,000
12. Right of way and Utilities	2013	HURF	81,000	Not Available	81,000
13. Construction	2015	HURF	33,653	556,747	590,400
			239,653	556,747	796,400

Pedestrian, Bicycle and Shared-Use Facility Project Application from Maricopa County for 'McDowell Road, 76th Street to Utery Pass Road'

PART D - SIGNATURE AND CHECKLIST

As the jurisdiction'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: John B. Haskins, P.E.

Title: Director, Maricopa County Department of Transportation

Date: 9/19/2012

WILL FILL OUT AFTER QUESTIONS APPROVED.

Checklist - OPTIONAL

This check list is optional, but is included to facilitate applicant review and verification that all required fields in the form have been completed.

PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	
Project Description, fields 6 - 7 are complete	
Project Description, field 8 – project map is provided in the printed application. Please attach a PDF file in the electronic submittal.	
PART B - Segment Description and Proposed Improvements Fields	Complete?
Project Description, Section 1	
Fields 1 - 2 are complete	
Field 3 – segment alignment map is provided in the printed application. Please attach PDF file in the electronic submittal.	
Field 4 - please check box if included and provided in the printed application. Please attach PDF file in the electronic submittal.	
Fields 5 – 10 are complete	
Proposed Improvements, Section 2	
Fields 11 – 28 are complete	
PART C - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete	
Field 8 - please check box if included and provided in the printed application. Please attach PDF file in the electronic submittal.	
Field 9 - 10 are complete	
Fields 11 – 13 Years are complete	
Fields 11 – 13 Local Funding Sources are complete	
Fields 11 – 13 Local Costs are complete	
Field 11 - 13 Federal Costs are complete	
PART D - Signature Page Fields	Complete?
Form is signed	
Name, title and date fields are completed.	

TRANSMITTAL INSTRUCTIONS and SCHEDULE

The due date and time for project applications to be submitted to MAG is **Wednesday, September 19, 2012 by 10:00 a.m.**

Member agencies are to:

1) Transmit the application and all attachments electronically, and

To transmit the application electronically, please save the excel file, and then send the application and all attachments to Teri Kennedy, Transportation Programming Manager. Please send graphic attachments in PDF form. Click cell below to send e-mail.

[mailto: MAG Staff](mailto:MAG Staff)

2) Submit two printed, signed, and complete applications to MAG.

To submit two printed, signed, and complete applications to MAG, the applicant can mail **at MAG offices by Wednesday September 19, 2012 at 10:00 a.m.** or drop off application to:

Maricopa Association of Governments
ATTN: Teri Kennedy,
302 N. 1st Avenue, Suite #300,
Phoenix, AZ 85003.

Or, the applicant can scan a printed and signed application and transmit it via e-mail or fax to: tkennedy@azmag.gov or 602.254.6300 by **Thursday September 19th @ 10:00 a.m.** If the applicant is transmitting a scanned, printed, and signed application via e-mail or fax, the applicant will mail or drop off the original printed application by **Wednesday, September 26, 2012.**

Application Workshops and Open Working Group Meeting Schedule*

Monday, August 13, 2012 from 9:00-11:00 AM	Workshop on MAG Transportation Programming and Federal Fund Project Applications
Monday, August 27, 2012 from 1:00-3:30 PM	Open Working Group - Federal Fund Project Applications
Monday, September 10, 2012 from 8:30-11:00 AM	Open Working Group - Federal Fund Project Applications

* All meetings will be held on the 2nd Floor of the MAG Offices at 302 North 1st Ave, Suite 300, Phoenix, Arizona 85003

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 CMAQ Applications. For member agencies unable to meet this requirement, MAG staff is available to assist in this area.

Submission Requirements

GIS Data – For each geometry type (point, line, polygon), please provide a single GIS shapefile or feature class for your jurisdiction. 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 shapefiles or geodatabase feature classes along with your Project Application.

File Formats – Agencies that are able to submit GIS data along with CMAQ Applications shall provide the data in one of three formats that are compatible with ESRI products: (1) shapefile, (2) Personal Geodatabase, or (3) File Geodatabase.

Spatial Reference – The preferred spatial reference system of submitted GIS data is State Plane Arizona Central NAD 83 HARN.

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.>

Pedestrian/Bicycle Cost Estimation Form

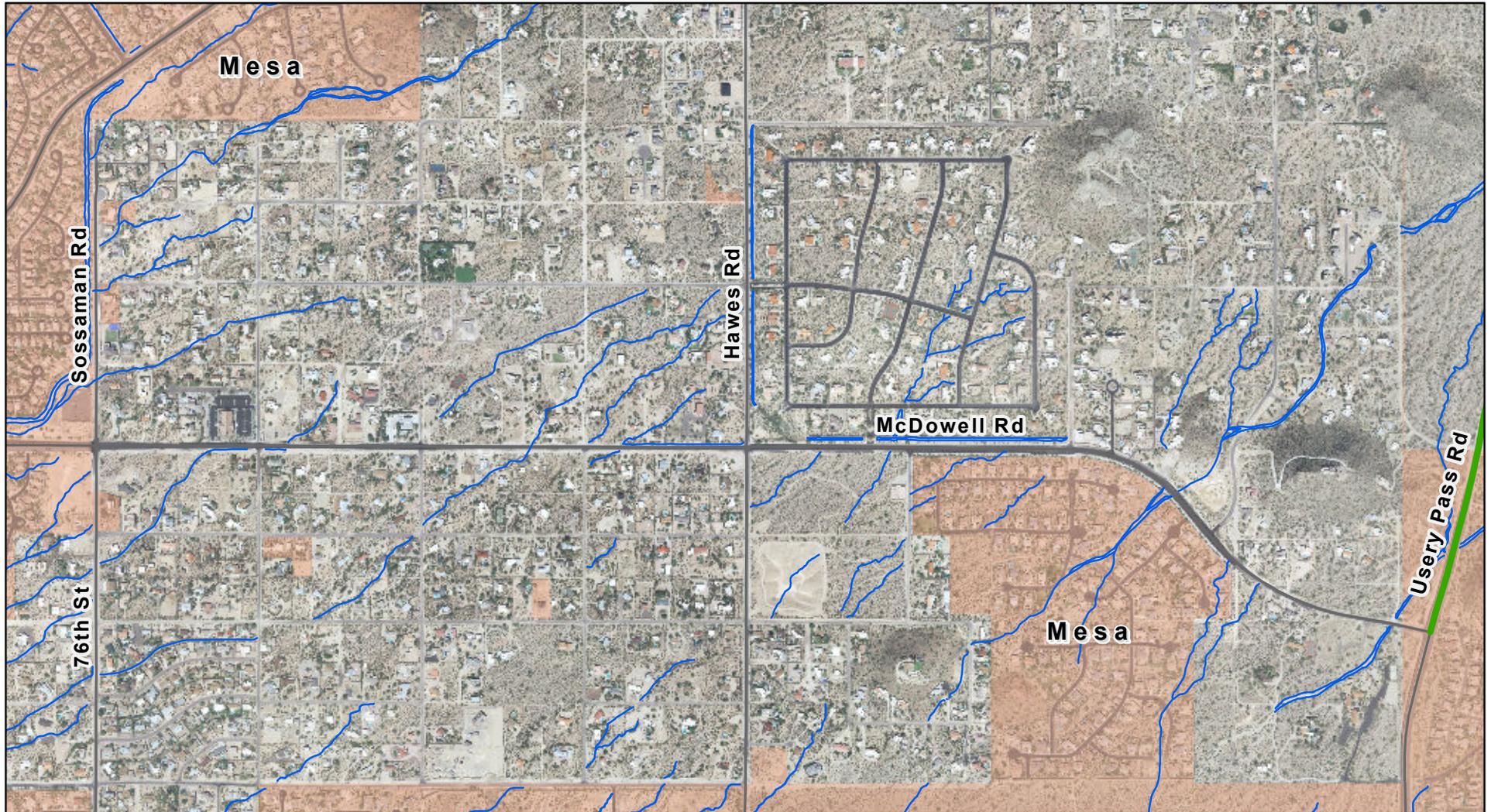
Design Funding	Locally Funded											
Part	Item Description		Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)		
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY		LS	1	\$9,500.00	\$9,500.00	FALSE	\$0.00	\$9,500.00			
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN		LS	1	\$26,000.00	\$26,000.00	FALSE	\$0.00	\$26,000.00			
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting		LS	1	\$6,000.00	\$6,000.00	FALSE	\$0.00	\$6,000.00			
	4. HAZMAT ASSESSMENT		LS	1	\$2,500.00	\$2,500.00	FALSE	\$0.00	\$2,500.00			
	Subtotal Scoping (Part A)					\$44,000.00		\$0.00	\$44,000.00			
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Right-of-Way Acquisition		LS	1	\$21,000.00	\$21,000.00	FALSE	\$0.00	\$21,000.00			
	2. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.		LS	1	\$52,500.00	\$52,500.00	FALSE	\$0.00	\$52,500.00			
	3. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report		LS	1	\$9,500.00	\$9,500.00	FALSE	\$0.00	\$9,500.00			
	4. DRAINAGE REPORT		LS	1	\$16,000.00	\$16,000.00	FALSE	\$0.00	\$16,000.00			
	5. SWPPP		LS	1	\$3,000.00	\$3,000.00	FALSE	\$0.00	\$3,000.00			
Subtotal PE (Part B)					\$102,000.00		\$0.00	\$0				
C. Construction Or Implementation For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4	1. Hardscape Construction	Installation Of SWPP Measures		LS	1	\$12,000.00	\$12,000.00	TRUE	\$11,316.00	\$684.00		
		Site Preparation		LS	1	\$42,550.00	\$42,550.00	TRUE	\$40,124.65	\$2,425.35		
		Demolition	Sawcut		LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			Remove Structures and Obstructions		LS	1	\$10,000.00	\$10,000.00	TRUE	\$9,430.00	\$570.00	
			Remove Fencing		LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			Remove Structural Concrete		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			Remove Asphaltic Concrete Pavement		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
		Remove Concrete Sidewalks, Slabs		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Hazmat Abatement		LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Utility Relocation		LS	1	\$60,000.00	\$60,000.00	TRUE	\$56,580.00	\$3,420.00		
		Retaining Wall - Reinforced Concrete Cantilevered		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Earthwork	General Excavation		CY	1,500	\$12.00	\$18,000.00	TRUE	\$16,974.00	\$1,026.00	
			Drainage Excavation		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			Structural Excavation		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			Structural Backfill		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Borrow (In Place)		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Curb & Gutter		LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Aggregate Base		CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Pathway Or Sidewalk Materials	Concrete		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Colored Concrete		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Stamped Color Concrete		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Precast Concrete Pavers		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Asphaltic Concrete		Ton	1,170	\$85.00	\$99,450.00	TRUE	\$93,781.35	\$5,668.65		
		Polymer or Resin Stabilized Surface		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
	Crosswalk Enhancement	Concrete Pavers		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Stamped Asphalt		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Stamped Concrete		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Concrete		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Integral Color Concrete		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
	Pedestrian ADA Ramp		SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Culvert Extensions		LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Pedestrian Lighting Including Conduit And Trenching		Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Handrail	Standard		LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
		Decorative		LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00		
	Subtotal Hardscape Construction					\$242,000.00		\$228,206.00	\$13,794.00			
2. Landscaping & Irrigation Items	Trees Above 15 Gallon In Size As Required Per Local Code Or Special Design Requirements		Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Trees (15 Gallon Size)		Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Trees (5 Gallon Size)		Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Shrubs (5 Gallon Size)		Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			
	Shrubs (1 Gallon Size)		Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00			

	Cactus (5 Gallon Size)	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Mulch	Decomposed Granite	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Organic	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
	Topsoil	CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Seeding	Acre	3	\$2,500.00	\$7,500.00	TRUE	\$7,072.50	\$427.50	
	Turf Sod	SY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Boulders	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Irrigation System	Drip	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Turf	SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
	Sleeving For Irrigation System	Directional Bore	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
		Cut and Patch	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
	Landscape Header Curb	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Landscape Establishment	LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Subtotal Landscaping & Irrigation Items				\$7,500.00		\$7,072.50	\$427.50	
3. Site Furnishings	Benches	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Seatwalls	LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Bike Racks	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Trash Receptacles	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Drinking Fountains	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Signage (Standard Traffic Control)	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Tree Grates	Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Subtotal Site Furnishings				\$0.00		\$0.00	\$0.00	
4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Signing and Striping	LS	1	\$32,500.00	\$32,500.00	TRUE	\$30,647.50	\$1,852.50	
	Plant Relocatoin & Establishment	LS	1	\$7,500.00	\$7,500.00	TRUE	\$7,072.50	\$427.50	
	Community Relations Support	LS	1	\$2,500.00	\$2,500.00	TRUE	\$2,357.50	\$142.50	
	Price Adjustment for Bituminous Material	LS	1	\$10,000.00	\$10,000.00	TRUE	\$9,430.00	\$570.00	
	Culverts, Headwalls & Misc Drainage Items	LS	1	\$75,000.00	\$75,000.00	TRUE	\$70,725.00	\$4,275.00	
			1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
			1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Subtotal Other Construction				\$127,500.00		\$120,232.50	\$7,267.50	
5. Mobilization And Administration Costs	Contractor Mobilization	LS	1	\$50,000.00	\$50,000.00	FALSE	\$0.00	\$50,000.00	
	Traffic Control	LS	1	\$43,000.00	\$43,000.00	TRUE	\$40,549.00	\$2,451.00	
	Construction Survey & Layout	LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00	
	Construction Contingencies	LS	1	\$82,000.00	\$82,000.00	TRUE	\$77,326.00	\$4,674.00	
	Construction Administration	LS	1	\$98,400.00	\$98,400.00	TRUE	\$92,791.20	\$5,608.80	
	Subtotal Mobilization & Administration Costs				\$273,400.00		\$210,666.20	\$62,733.80	
Subtotal Construction Or Implementation Cost (Part C)					\$650,400.00		\$566,177.20	\$84,222.80	
D. Total Scoping, PE and Construction (Part A, B, and C)					\$796,400.00		\$566,177.20	\$128,222.80	
E. Adot Fee For Pe Reviews And Staff Charges (The higher of \$20,000 or 2% of Total Cost (Part D))					\$20,000.00	FALSE	\$0.00	\$20,000.00	
F. Total Project Cost Including ADOT Fees (Part D + Part E)					\$816,400.00		\$566,177.20	\$148,222.80	



McDowell Road: 76th Street to Usery Pass Road

Bike Lane and Shoulder Construction



Maricopa County Public Works GIS Division September 2012

- River
- Completed Bicycle Network Segment



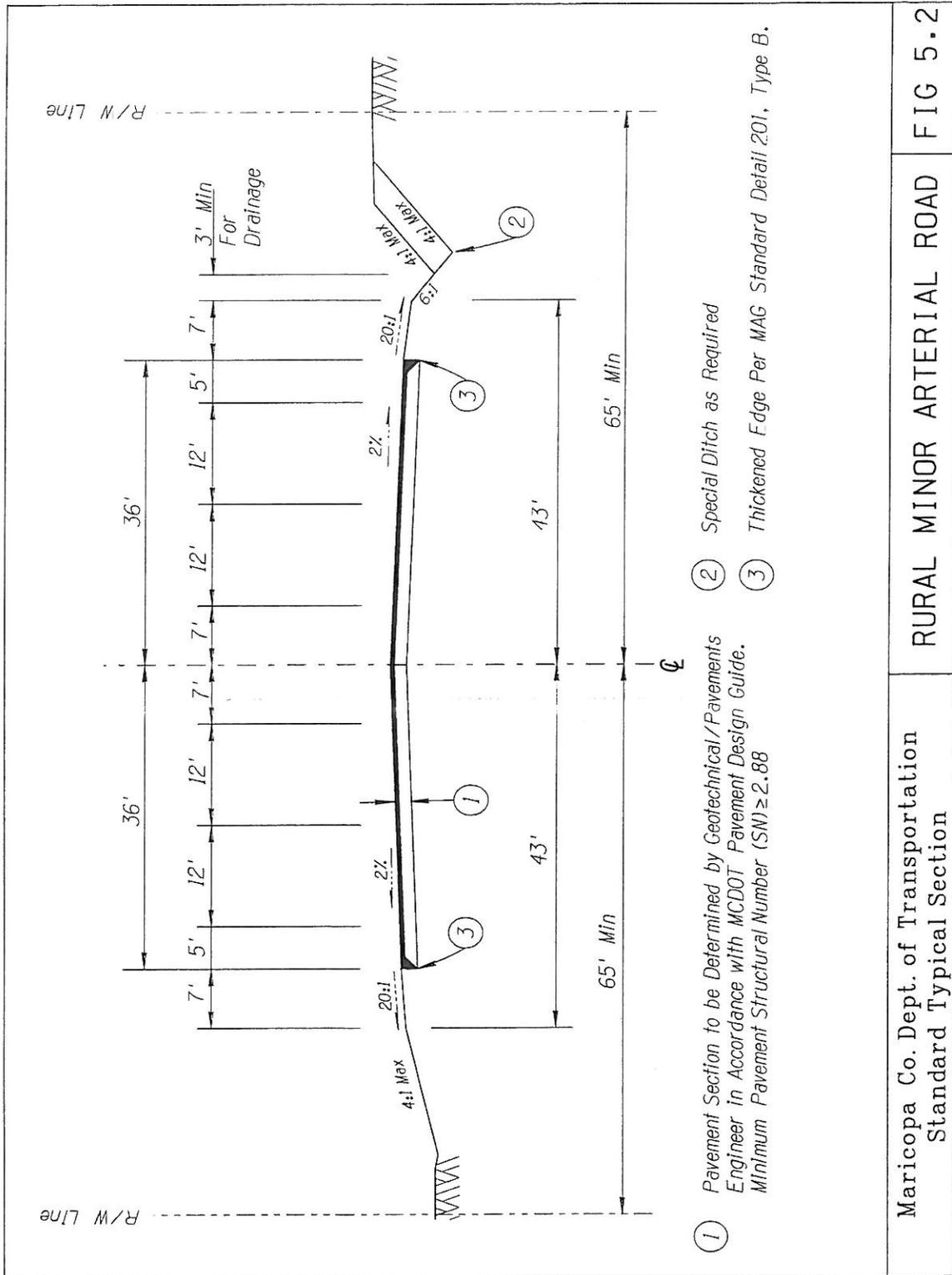


FIGURE 5.2 - RURAL MINOR ARTERIAL ROAD

Maricopa Co. Dept. of Transportation
Standard Typical Section

RURAL MINOR ARTERIAL ROAD

FIG 5.2

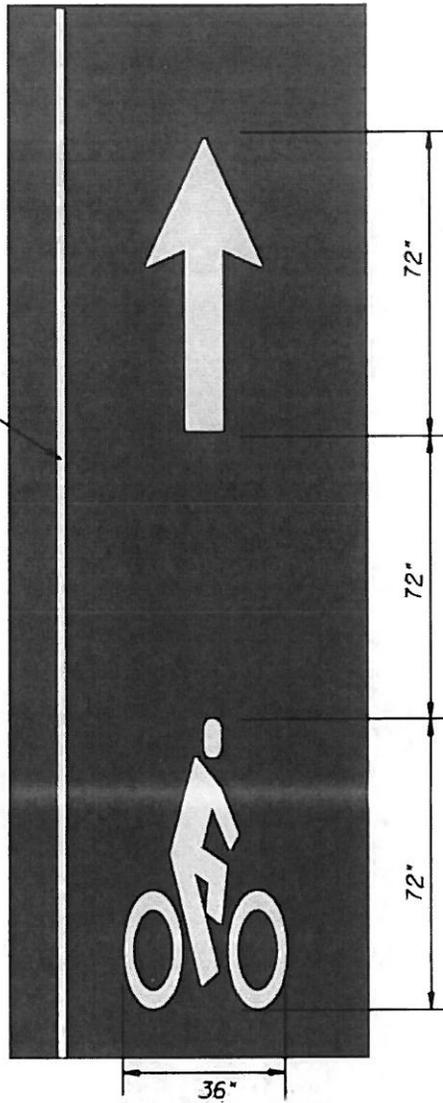
PAVEMENT MARKING MANUAL

BIKE LANE MARKINGS

(not to scale)



(Direction Of Travel)



GENERAL NOTES:

1. Pavement markings shall be spaced in urban areas as determined by the Traffic Engineer or his designated representative.
2. Pavement markings will be installed on any route with continuous markings.
3. Rural pavement markings shall be installed at all major intersections, as a minimum, or as determined by the Traffic Engineer or his designated representative.
4. Bicycle markings shall be centered in the pavement allotted for the lane.
5. No RPMs on designated bike lanes.

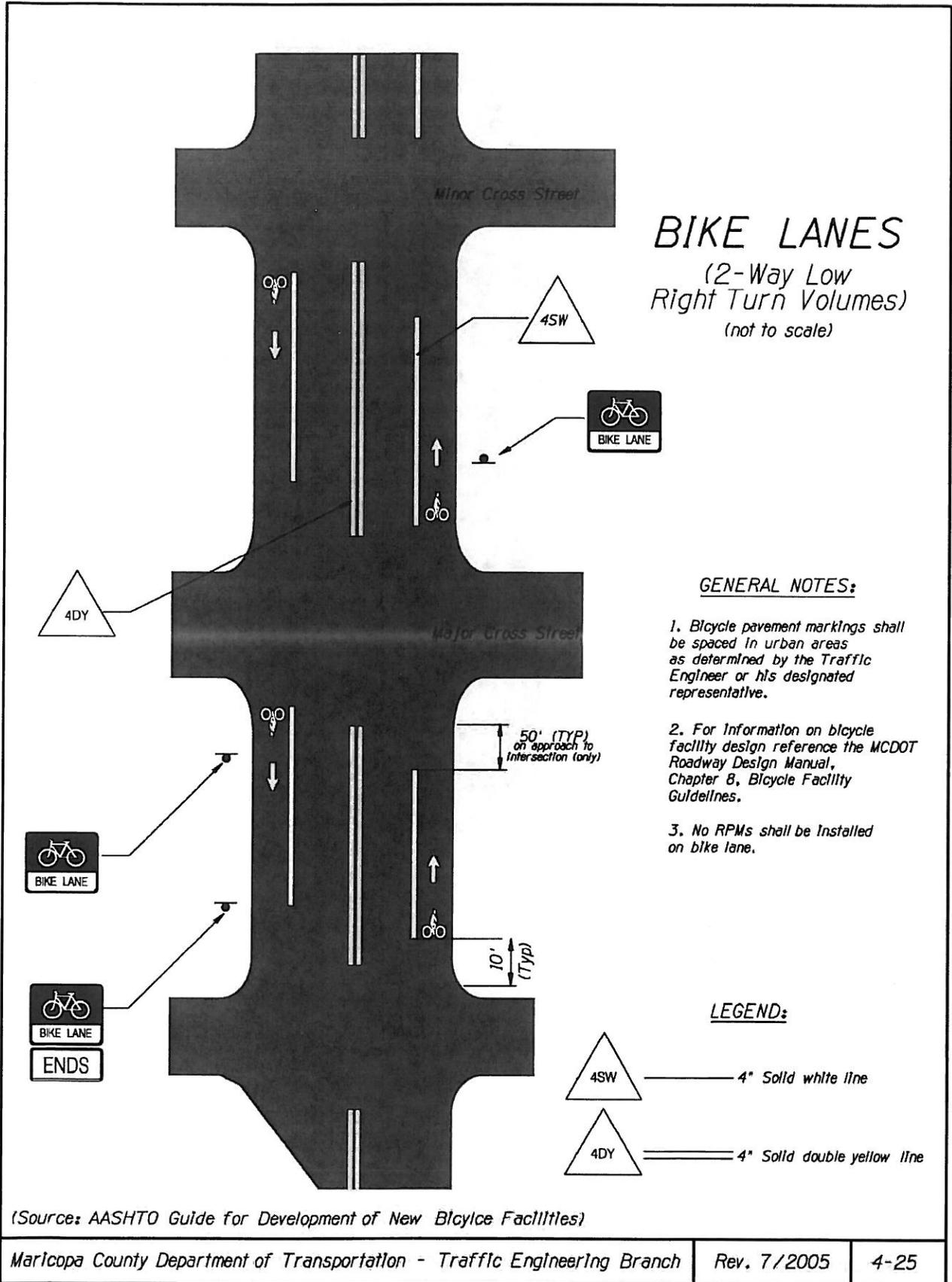
LEGEND:



4" Solid white line

(Source: MUTCD, Part 9, Bicycle Facilities)

PAVEMENT MARKING MANUAL



McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 1 - Looking east onto McDowell Road, approaching the intersection at 78th Street.

McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 2 - Looking southeast at McDowell Road and 78th Street intersection.

McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 3 - Looking east onto McDowell Road just after the intersection at 80th Street.

McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 4 - Looking east at the intersection of McDowell Road and Hawes Road.

McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 5 - Looking east onto McDowell Road at the T-intersection of Waterbury Road.

McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 6 - Looking southeast onto McDowell Road after the intersection at 90th Street.

McDowell Rd - 76th St to Usery Pass Rd Photos



Figure 7 - Looking southeast onto McDowell Road at the Usery Pass Road intersection.