

# Maricopa Association of Governments

## Pedestrian, Bicycle and Shared-Use Facility Project Application

September 19, 2012



City of Apache Junction  
Public Works Department  
300 East Superstition Blvd.  
Apache Junction, Arizona 85119

## 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@azmag.gov>

<mailto:tkennedy@azmag.gov>

<mailto:MDeCindis@azmag.gov>

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

### PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information	
1. Sponsoring Agency	Apache Junction
2. Contact Name	Giao Pham
3. Phone	(480) 474-8513
4. E-Mail Address	gpham@ajcity.net
5. Mailing Address	300 East Superstition Blvd. Apache Junction, Arizona 85119

<b>Project Description</b>	
6. Please provide the Project Title.	Southern/Winchester Sidewalk Installation
7. Please provide a general description of the project (Please no more than 200 characters)	
Construct 20640 sf of sidewalks, 20 lf of vertical curb & gutter, 17 ADA sidewalk ramps and 8 driveways along Southern Ave between Winchester and Royal Palms and Winchester between Hondo and Southern.	
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 type="checkbox"/>	Bicycle lane (4' min. w/o curb/gutter)	<input type="checkbox"/>	Shoulder paving is within 4-miles of a PM-10 monitor <a href="#">Link MAG Webpage for Map of PM-10 Monitor Locations</a>
<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)	<input type="checkbox"/>	Other <input type="text"/>
<input type="checkbox"/>	Paved shoulders (5' min.).		

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

<input checked="" 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 checked="" type="checkbox"/>	Detached sidewalk (4' min. buffer)	<input type="checkbox"/>	Mid-block crossing w/ pedestrian refuge
<input type="checkbox"/>	Bridge (overpass)	<input type="checkbox"/>	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.

The improvements will be made within the City ROW on Southern Avenue between Winchester and Royal Palms and on the East side of Winchester between Hondo and Southern Avenue.

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.

Southwest Gas and SRP lines are present and adjacent to the proposed sidewalk installation. Caution should be taken while under construction. Bluestake will be required.

**Section 2 - Proposed Improvements**

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

The City of Apache Junction proposes to construct 20,640 s.f. of concrete sidewalks along Southern Avenue between Winchester and Royal Palm Road and on the east side of Winchester between Hondo and Southern Avenue in Apache Junction. Construction will take place within the City's right of way with a minimum of a 4' barrier to the roadway and will include the removal of existing vegetation, the removal of any existing AC pavement and concrete, and the relocation of a chainlink fence. In addition to the sidewalk, a 6" vertical curb & gutter, a concrete scupper, 17 ADA compliant ramps and 8 driveways will be installed.

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

<input type="checkbox"/>	AASHTO Guide for Bicycle Facilities	Other	<input type="checkbox"/> MAG Standards and Specifications, City of Apache Junction Engineering Design Guidelines and Policies Manual", Part B, Section 2, #12, and AASHTO.
<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines		
<input type="checkbox"/>	MAG Complete Streets Guide		

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

In 2009, the City of Apache Junction widened Southern Avenue along the proposed project location. Additionally, in 2011, the City widened Winchester, just north of the proposed project location leaving the southern portion without sidewalks. As a result, deficiencies were identified in relation to the sidewalks and connectivity to the surrounding area. As the City of Apache Junction grows and new development is built these deficiencies are addressed. However in older neighborhoods where development has been stagnant, the City is aware of these deficiencies and they are addressed as funding permits.

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

The right of way is graded dirt or landscaped with vegetation and decorative rock. Residential properties have landscaped within the City's right of way which will be removed.

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

<input type="checkbox"/>	Wide bike lanes (6'-7')	Buffer Zone, Width	<input type="text"/>
<input type="checkbox"/>	Grade-separated crossing (overpass or underpass)		
<input type="checkbox"/>	Signalized crossing		
<input type="checkbox"/>	Path lighting	Other	<input type="text"/>

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

<input type="checkbox"/>	Wide sidewalk (8' min.)	Buffer Zone, Width	<input type="text"/>
<input type="checkbox"/>	Grade-separated crossing (overpass or underpass)		4'
<input type="checkbox"/>	Signalized crossing		
<input type="checkbox"/>	Path lighting	Other	<input type="text"/>
<input type="checkbox"/>	Shade		

**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?

The proposed sidewalks are located on a roadway with residential driveways that enter directly on to an Arterial. The location of the project is within one mile of three schools, within 1/2 mile of two houses of worship and two senior mobile home parks. The installation of sidewalks will provide a safe route of travel for area residents.

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

The installation of the sidewalks and ADA ramps will provide an accessible route for persons with disabilities where previously there were none.

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

Southern Avenue and Winchester Road

Multi Jurisdictional 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:

Within 1/4 mile  
List:

1/4 mile to 1/2 mile  
List:

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:

Within 1/4 mile  
List:

1/4 mile to 1/2 mile  
List:

1/2 mile to 1 mile  
List:

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

Within 1/4 mile  
List:

1/4 mile to 1/2 mile  
List:

1/2 mile to 1 mile  
List:

24. What are the demographics of the area served:

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)  
 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:	Recommended
With new development and capital improvement projects, bike lanes on collector streets are:	Recommended
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	Required
Complete Streets Policy	Not Addressed

26. The project is: (Check one)

- Identified in General Plan, council adopted policy, or Capital Improvements Program  
List:  
2012 Comprehensive Transportation Study
- 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.

Projects that affect the general public are notified in the local paper. Social media outlets are also utilized to communicate with the public. Because this project will be completed directly in front of residential properties, written notification will be provided to those property owners.

28. How will you determine customer satisfaction/evaluation?

Resident input is always accepted and encouraged. The public typically provides comments to the City either written, oral or in an email. Occasionally, comments are written to the local papers and published weekly. Because of the close proximity to residential properties, the City will seek to ensure a positive experience for the property owners. Regular communication will provide a place for open dialogue so that concerns are addressed immediately.

**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	
2. Design	80,108	
3. Right of way	0	All ROW is under the City's control.
4. Utilities	0	Although gas lines exist, there should not be a need for relocation.
5. Construction	195,293	See attached construction cost estimate
6. Contingency	14,255	See attached construction cost estimate
7. Total Cost	309,656	

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?

Yes
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10. Expected Annual Maintenance Cost

0
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Maintenance on the sidewalks will be done as needed.

Requested MAG Programming	Year	Local Funding Source	Local Cost	Federal Cost	Total Cost
11. Design	2013	HURF	80,108	Not Available	80,108
12. Right of way and Utilities	2014	HURF	0	Not Available	0
13. Construction	2015	HURF	31,944	197,604	229,548
			112,052	197,604	309,656

Pedestrian, Bicycle and Shared-Use Facility Project Application from Apache Junction for 'Southern/Winchester Sidewalk Installation'

**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: Giao Pham

Title: Interim Public Works Director/City Engineer

Date: September 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.

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

Pedestrian, Bicycle and Shared-Use Facility Project Application from Apache Junction for 'Southern/Winchester Sidewalk Installation'

# Pedestrian/Bicycle Cost Estimation Form

<b>Design Funding</b>	<b>Locally Funded</b>		
<b>Part</b>	<b>Item Description</b>		
<b>A. Scoping (15% Preliminary Engineering Design)</b>	1. SITE TOPOGRAPHIC SURVEY		
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting		
	4. HAZMAT ASSESSMENT		
	<b>Subtotal Scoping (Part A)</b>		
<b>B. Final Preliminary Engineering Design - Stages II, III, IV And PS&amp;E</b>	1. Right-of-Way Acquisition		
	2. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.		
	3. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report		
	4. DRAINAGE REPORT		
	5. SWPPP		
<b>Subtotal PE (Part B)</b>			
<b>C. Construction Or Implementation For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4</b>	1. Hardscape Construction	Installation Of SWPP Measures	
		Site Preparation	
		Demolition	Sawcut
			Remove Structures and Obstructions
			Remove Fencing
			Remove Structural Concrete
			Remove Asphaltic Concrete Pavement
		Remove Concrete Sidewalks, Slabs	
		Hazmat Abatement	
		Utility Relocation	
		Retaining Wall - Reinforced Concrete Cantilevered	
		Earthwork	General Excavation
			Drainage Excavation
			Structural Excavation
			Structural Backfill
			Borrow (In Place)
		Curb & Gutter	
		Aggregate Base	
		Pathway Or Sidewalk Materials	Concrete
			Colored Concrete
			Stamped Color Concrete
			Precast Concrete Pavers
			Asphaltic Concrete
		Polymer or Resin Stabilized Surface	
		Crosswalk Enhancement	Concrete Pavers
			Stamped Asphalt
			Stamped Concrete
			Concrete
		Integral Color Concrete	
		Pedestrian ADA Ramp	
Culvert Extensions			
Pedestrian Lighting Including Conduit And Trenching			
Handrail	Standard		
	Decorative		
<b>Subtotal Hardscape Construction</b>			
Trees Above 15 Gallon In Size As Required Per Local Code Of Special Design Requirements			
2. Landscaping & Irrigation			

	Items	Trees (15 Gallon Size)	
		Trees (5 Gallon Size)	
		Shrubs (5 Gallon Size)	
		Shrubs (1 Gallon Size)	
		Cactus (5 Gallon Size)	
		Mulch	Decomposed Granite
			Organic
		Topsoil	
		Seeding	
		Turf Sod	
		Boulders	
		Irrigation System	Drip
			Turf
		Sleeving For Irrigation System	Directional Bore
			Cut and Patch
	Landscape Header Curb		
	Landscape Establishment		
	Subtotal Landscaping & Irrigation Items		
	3. Site Furnishings	Benches	
		Seatwalls	
		Bike Racks	
		Trash Receptacles	
		Drinking Fountains	
		Signage (Standard Traffic Control)	
		Tree Grates	
		Subtotal Site Furnishings	
	4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)		
5. Mobilization And Administration Costs	Subtotal Other Construction		
	Contractor Mobilization		
	Traffic Control		
	Construction Survey & Layout		
	Construction Contingencies		
	Construction Administration		
Subtotal Mobilization & Administration Costs			
<b>Subtotal Construction Or Implementation Cost (Part C)</b>			
<b>D. Total Scoping, PE and Construction (Part A, B, and C)</b>			
<b>E. Adot Fee For Pe Reviews And Staff Charges (The higher of \$20,000 or 2% of Total Cost (Part D))</b>			
<b>F. Total Project Cost Including ADOT Fees (Part D + Part E)</b>			

Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)
LS	1	\$10,000.00	\$10,000.00	FALSE	\$0.00	\$10,000.00
LS	1	\$7,000.00	\$7,000.00	FALSE	\$0.00	\$7,000.00
LS	1	\$20,000.00	\$20,000.00	FALSE	\$0.00	\$20,000.00
LS	1	\$1,500.00	\$1,500.00	FALSE	\$0.00	\$1,500.00
			<b>\$38,500.00</b>		<b>\$0.00</b>	<b>\$38,500.00</b>
LS	1	\$0.00	\$0.00	FALSE	\$0.00	\$0.00
LS	1	\$26,308.00	\$26,308.00	FALSE	\$0.00	\$26,308.00
LS	1	\$7,000.00	\$7,000.00	FALSE	\$0.00	\$7,000.00
LS	1	\$7,000.00	\$7,000.00	FALSE	\$0.00	\$7,000.00
LS	1	\$1,300.00	\$1,300.00	FALSE	\$0.00	\$1,300.00
			<b>\$41,608.00</b>		<b>\$0.00</b>	<b>\$0</b>
LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LS	1	\$500.00	\$500.00	TRUE	\$471.50	\$28.50
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$200.00	\$200.00	TRUE	\$188.60	\$11.40
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SY	58	\$25.00	\$1,450.00	TRUE	\$1,367.35	\$82.65
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	20	\$10.00	\$200.00	TRUE	\$188.60	\$11.40
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	20,640	\$5.00	\$103,200.00	TRUE	\$97,317.60	\$5,882.40
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Ton	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	8	\$1,000.00	\$8,000.00	TRUE	\$7,544.00	\$456.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	17	\$1,500.00	\$25,500.00	TRUE	\$24,046.50	\$1,453.50
Each	1	\$3,500.00	\$3,500.00	TRUE	\$3,300.50	\$199.50
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
			<b>\$142,550.00</b>		<b>\$134,424.65</b>	<b>\$8,125.35</b>
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00

Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
CY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Acre	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SY	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
SF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LS	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
			\$0.00		\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
LF	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
Each	1	\$0.00	\$0.00	TRUE	\$0.00	\$0.00
			\$0.00		\$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
	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
			\$0.00		\$0.00	\$0.00
LS	1	\$11,404.00	\$11,404.00	TRUE	\$10,753.97	\$650.03
LS	1	\$11,404.00	\$11,404.00	TRUE	\$10,753.97	\$650.03
LS	1	\$4,276.00	\$4,276.00	TRUE	\$4,032.27	\$243.73
LS	1	\$14,255.00	\$14,255.00	TRUE	\$13,442.47	\$812.54
LS	1	\$25,659.00	\$25,659.00	TRUE	\$24,196.44	\$1,462.56
			\$66,998.00		\$63,179.11	\$3,818.89
			<b>\$209,548.00</b>		<b>\$197,603.76</b>	<b>\$11,944.24</b>
			<b>\$289,656.00</b>		<b>\$197,603.76</b>	<b>\$50,444.24</b>
			<b>\$20,000.00</b>	FALSE	\$0.00	\$20,000.00
			<b>\$309,656.00</b>		<b>\$197,603.76</b>	<b>\$70,444.24</b>







CENTRAL  
ARIZONA  
COLLEGE

OLD WEST  
HIGHWAY

BROADWAY AVE

16TH AVE

HONDO AVE

IDAHO RD

WINCHESTER RD

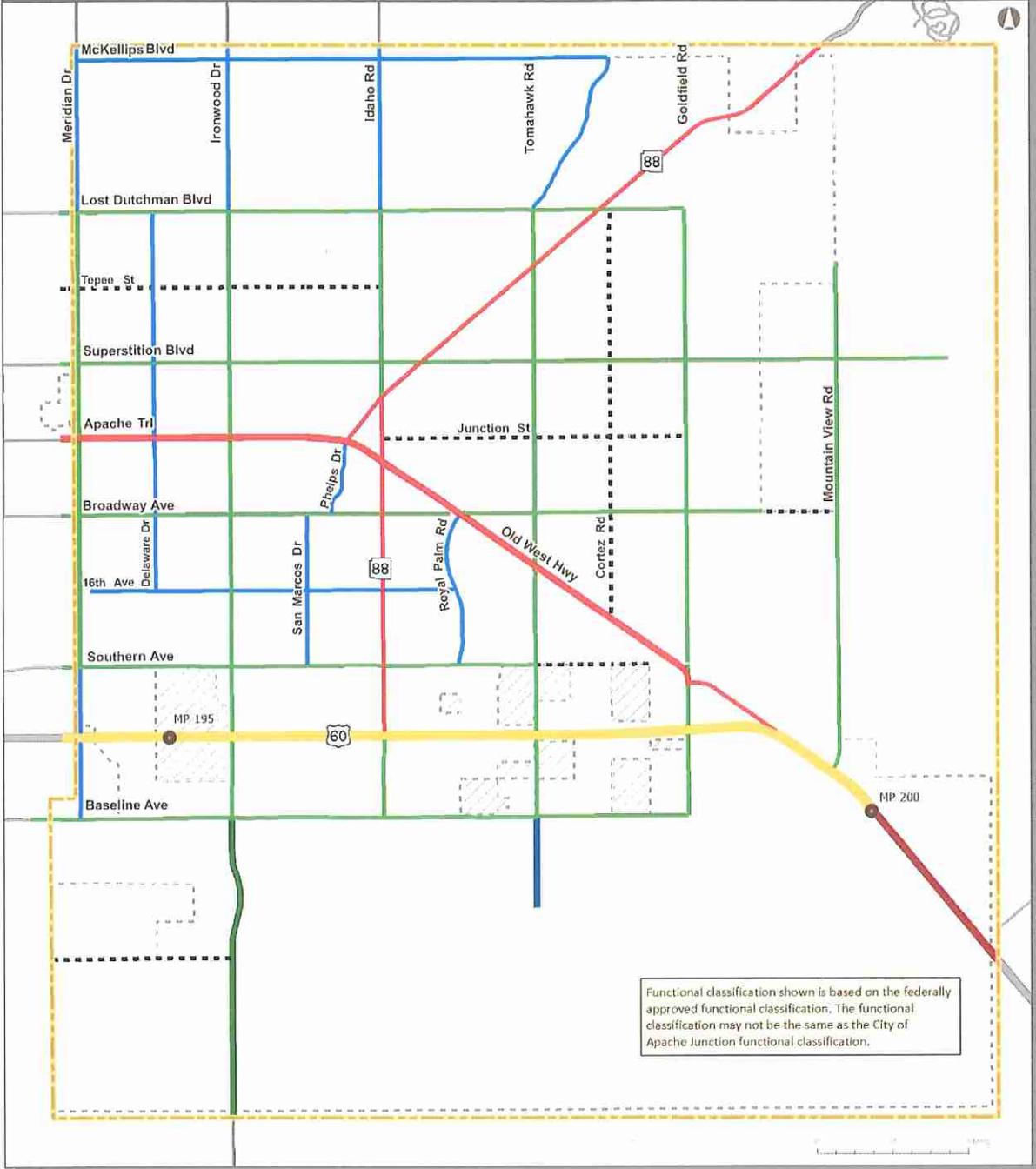
ROYAL PALM RD

SOUTHERN AVE

EXISTING SIDEWALKS

PROPOSED SIDEWALKS

**FIGURE 2.11: EXISTING ROADWAY FUNCTIONAL CLASSIFICATION**



Functional classification shown is based on the federally approved functional classification. The functional classification may not be the same as the City of Apache Junction functional classification.

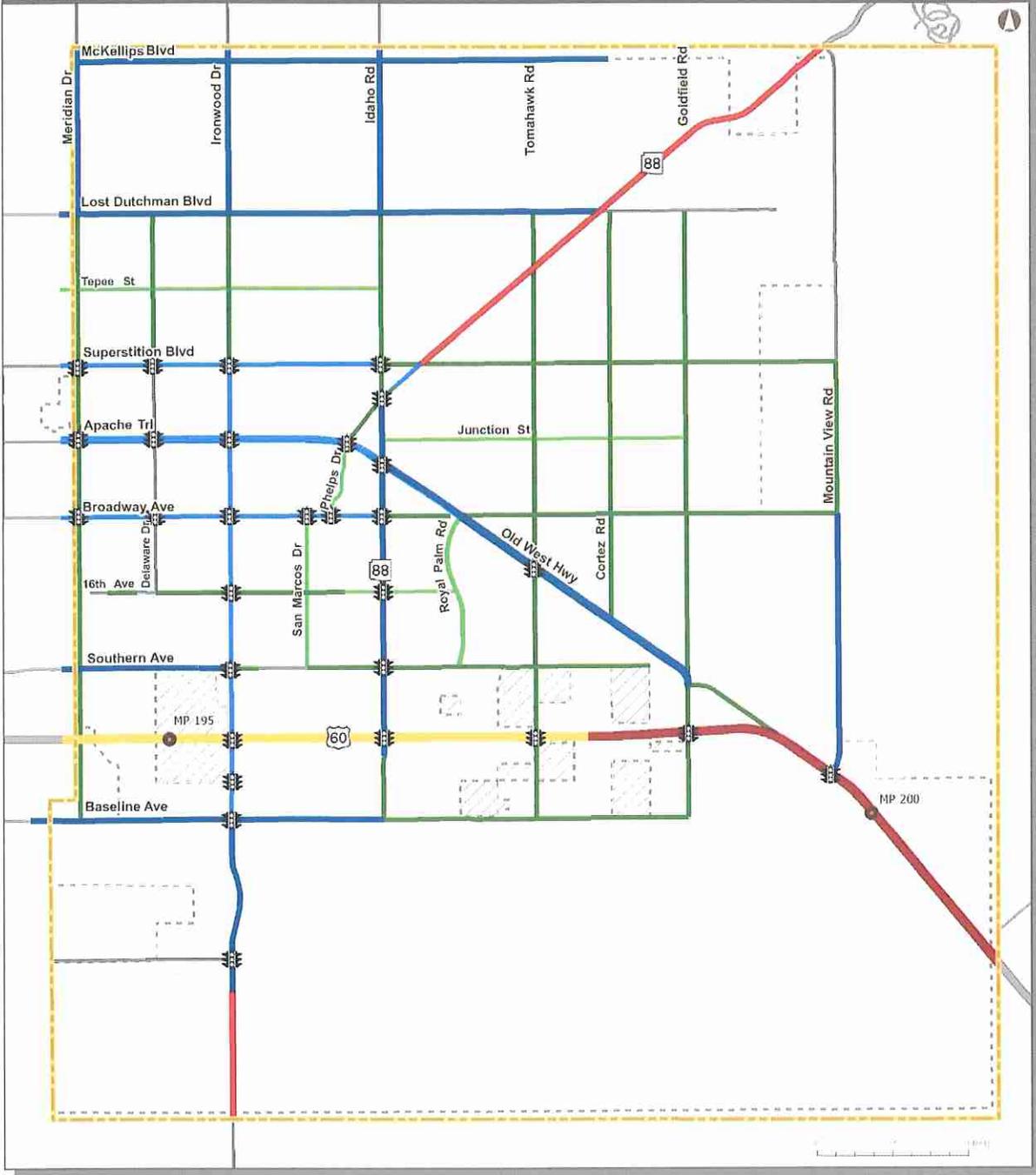
**LEGEND**

	Urban Other Freeway		Rural Principal Arterial		Local Roadway
	Urban Principal Arterial		Rural Minor Arterial		Study Area
	Urban Minor Arterial		Rural Major Collector		City Boundary
	Urban Collector		Study Roadways Not Federally Classified		County Island

Data Source: City of Apache Junction, ADOT



**FIGURE 2.13: EXISTING POSTED SPEED LIMITS**



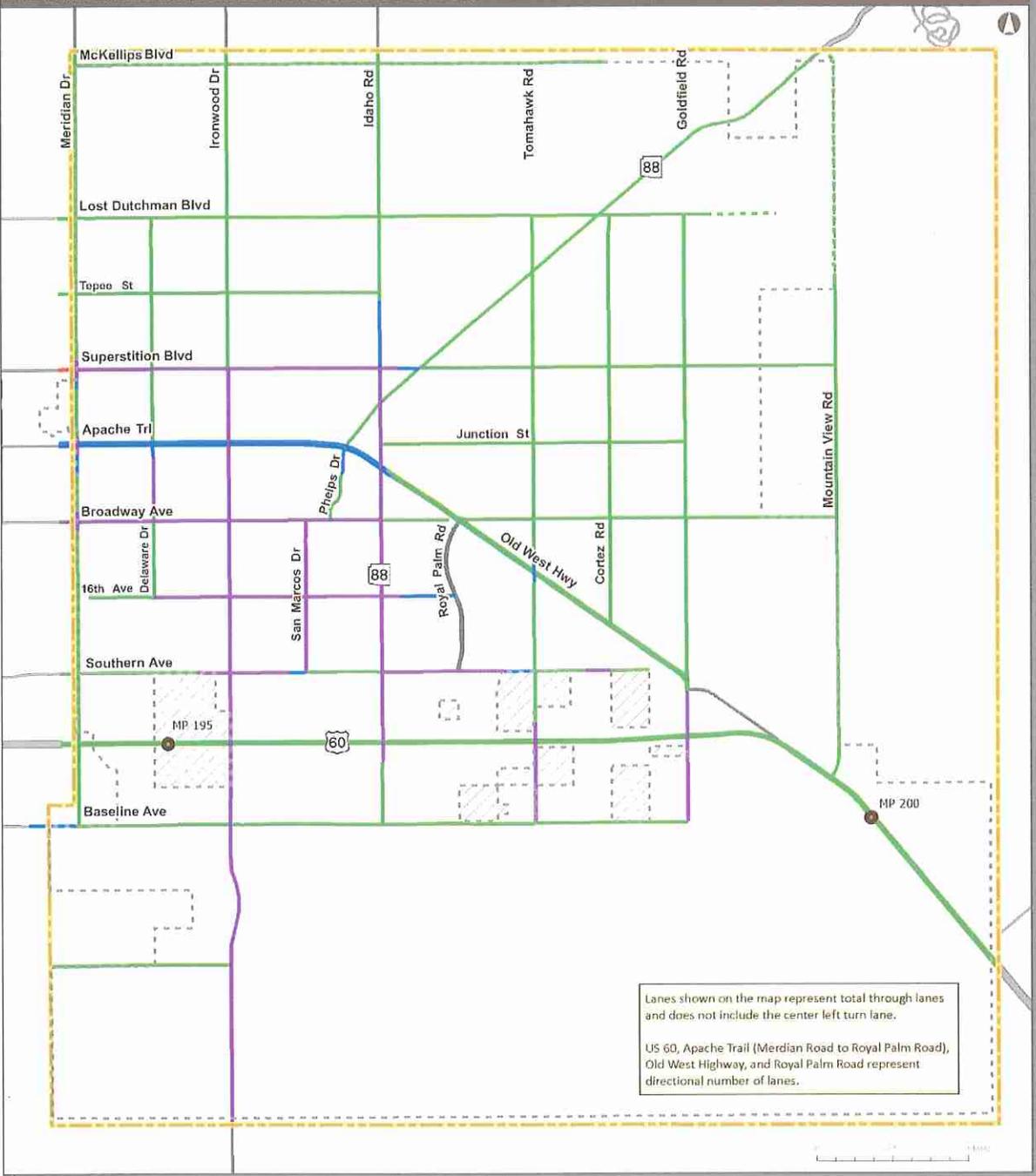
**LEGEND**

-  Traffic Signal
-  25 MPH
-  30 MPH
-  35 MPH
-  40 MPH
-  45 MPH
-  50 MPH
-  55 MPH
-  65 MPH
-  Study Area
-  City Boundary
-  County Island

Data Sources: City of Apache Junction, ADOT



**FIGURE 2.12: EXISTING NUMBER OF LANES**



**LEGEND**

	5 Lanes Paved		2 Lanes Paved		Local Roadway
	4 Lanes Paved		2 Lanes Unpaved		City Boundary
	3 Lanes Paved		1 Lane Paved		Study Area
					County Island

Data Sources: City of Apache Junction, ADOT

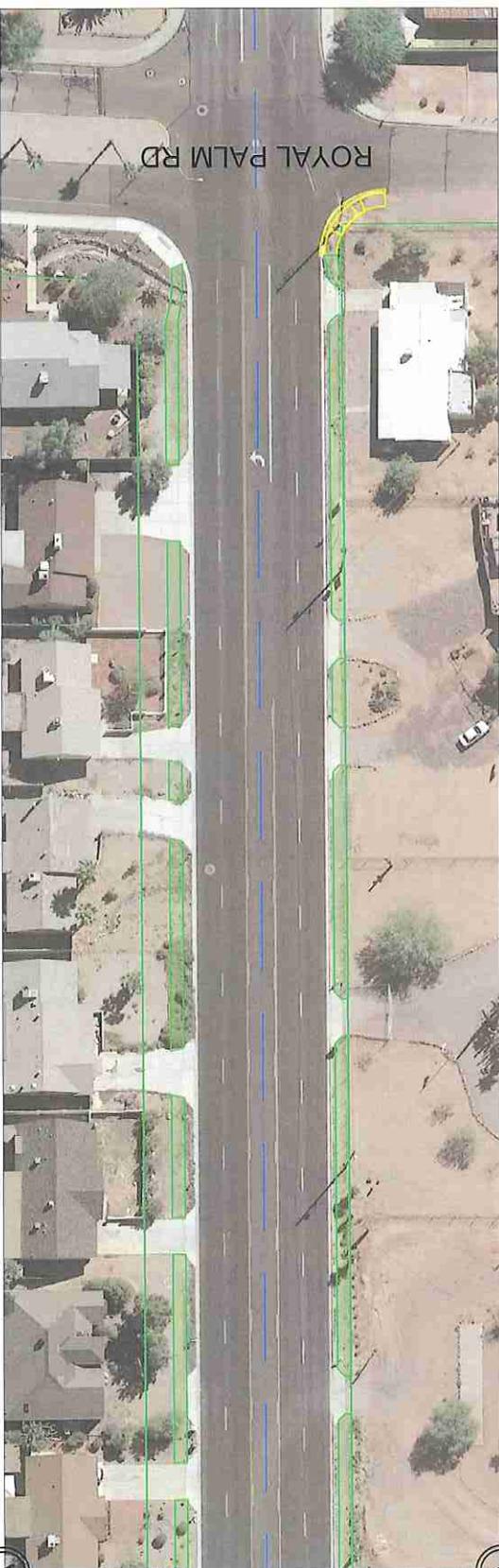


A



A

A



A

SOUTHERN AVENUE



WINCHESTER ROAD



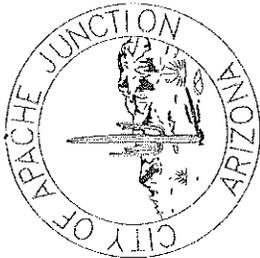
WINCHESTER ROAD

STATE ARIZ. PERM. NO. PW 2009-08 100,7004 431 1 3

CITY OF APACHE JUNCTION  
PUBLIC WORKS DEPARTMENT



CITY OF APACHE JUNCTION  
PUBLIC WORKS DEPARTMENT  
SIDEWALK IMPROVEMENT PLAN  
SOUTHERN AVENUE - WINCHESTER TO ROYAL PALM  
PROJECT NUMBER PW2009-08



MAYOR  
JOHN INSALACO  
VICE MAYOR  
ROBERT E. ECK  
CITY MANAGER  
GEORGE HOFFMAN  
CITY COUNCIL

COUNCIL MEMBER ROBIN BARKER  
COUNCIL MEMBER CHIP WILSON  
COUNCIL MEMBER JEFF SERRY  
COUNCIL MEMBER DOUG COLEMAN  
COUNCIL MEMBER RICHARD M. DIETZ

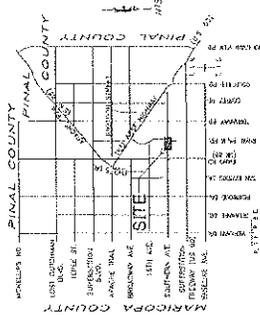
INDEX OF SHEETS

C-1 COND. AND INDEX SHEET  
C-2 PLAN SHEET

PROJECT DATA

RESUBMITTER - BRASS CAP IN WINCHESTER, ARIZONA  
LOCATED ON THE CENTERLINE INTERSECTION OF  
SOUTHERN AVENUE AND TRIPLE PALM ROAD.  
ELEVATION = 1679.57'  
CITY OF APACHE JUNCTION DATALK - 104003

VICINITY MAP



APPROVALS

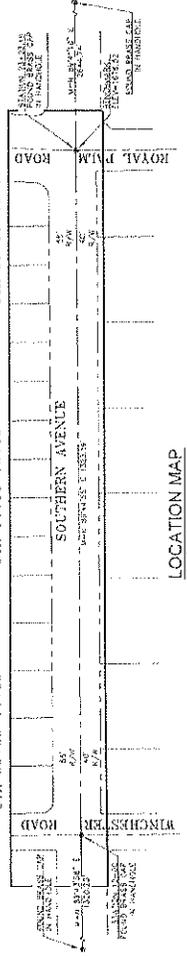
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
DAVID FERIN, PE CITY ENGINEER

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
DAVID FERIN, PE PUBLIC WORKS DIRECTOR

UTILITY COMPANY CONTACT TEL. NO. DATE RECEIVED

APACHE JUNCTION WATER CO.	FRANK BLANCO	(480) 962-6030
ARIZONA WATER COMPANY	JOE WISLAU	(602) 240-8878
SALT RIVER PROJECT	AL BAUER	(602) 236-6840
SHAD-3 DISTRICT NO. 1	ED DABEK	(480) 963-5589
DWESI	ROBERT RUTZ	(480) 768-4474
SHOEMART'S GAS	HOWARD WARREN	(480) 730-4843
NEEDHAM ARIZONA, LLC	DAN THWE	(480) 677-5352

SHEET C2 STA. 10+00-24+00  
SHEET C2 STA. 14+00-19+00  
SHEET C2 STA. 09+00-14+00



LOCATION MAP  
SCALE: 1"=130'

THIS SET - CONSTRUCTION SET  
IS TO BE USED FOR THE CONSTRUCTION OF THE PROJECT ONLY. ALL  
REVISIONS TO THIS SET MUST BE MADE BY THE CITY OF APACHE JUNCTION.  
NO OTHER REVISIONS WILL BE MADE TO THIS SET.

SIDEWALK IMPROVEMENT PLAN  
CITY OF APACHE JUNCTION, AZ  
PUBLIC WORKS DEPARTMENT

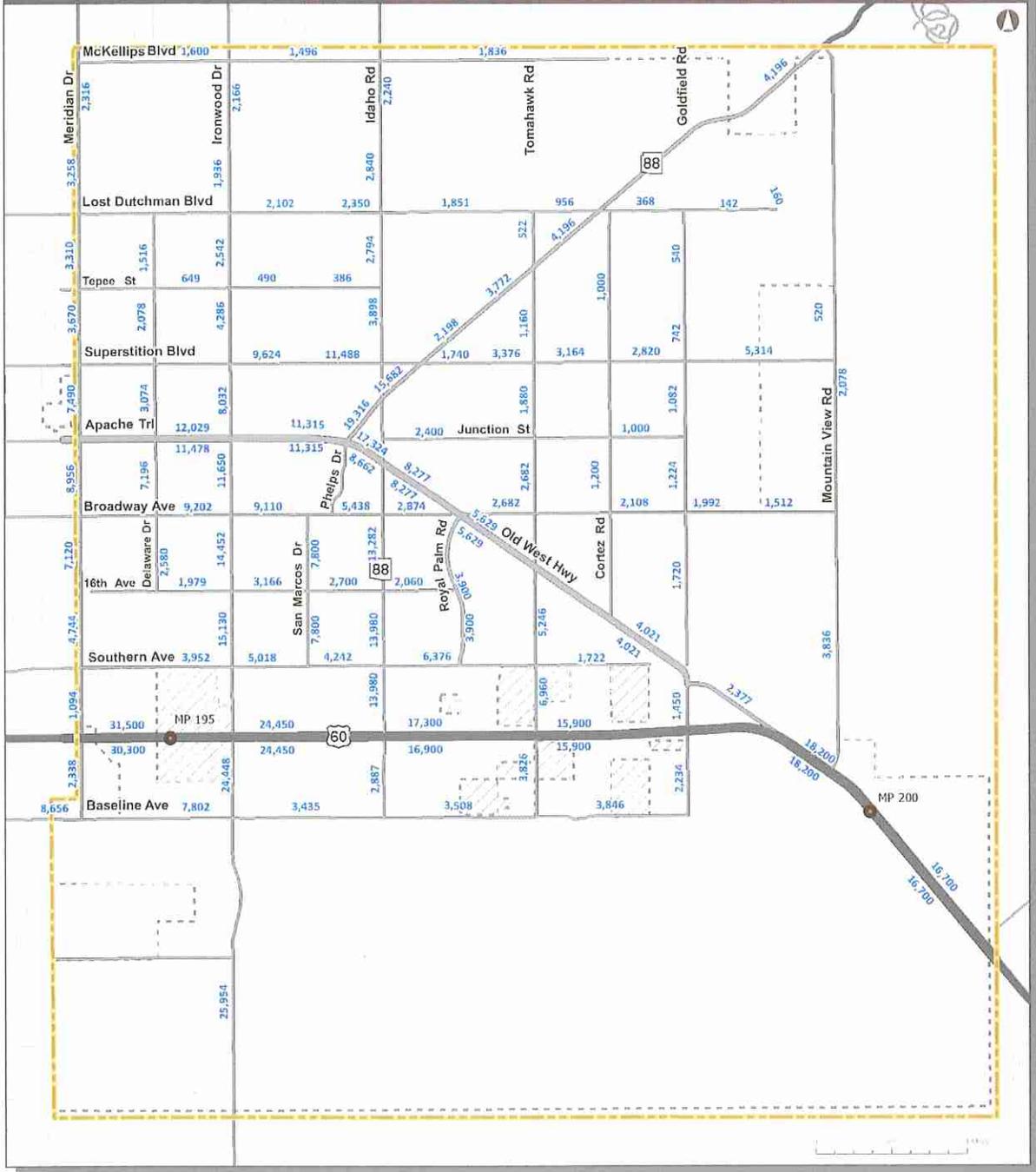
SOUTHERN AVENUE  
WINCHESTER TO ROYAL PALM  
PW 2009-08

DATE: 10/13/09  
DRAWN BY: J. FERIN  
CHECKED BY: J. FERIN  
SCALE: 1"=130'

NATIONAL BLUEPRINT  
PRINTED ON 100% RECYCLED PAPER  
WITH SOY INK



**FIGURE 2.18: EXISTING 2010 DAILY TRAFFIC COUNTS**



**LEGEND**

- XXX Traffic Count
- Freeway
- Study Roadway
- Local Roadway
- Study Area
- City Boundary
- County Island

Data Sources: City of Aviation Junction, ADOT



## Heather Patel

---

**From:** Jason Howard <JHoward@azmag.gov>  
**Sent:** Wednesday, August 29, 2012 12:46 PM  
**To:** Heather Patel  
**Subject:** RE: Census Data

Good afternoon Heather,

- 1) 1873.3 housing units per square mile.
  - a. Method: I buffered the sidewalk segments themselves by 0.5 miles on either side. This yielded a total area of 1.5 square miles around the sidewalk segments on Southern and Winchester from which to calculate housing unit density. Within this buffered area, the surrounding block groups were split, with some portion of each block group being inside the buffered area, and some portion being outside of it. First I did a quick check against aerial imagery to make sure all the areas had at least some housing units (there was one block group with no housing units in the buffered area, so I excluded that for subsequent steps except for the final density calculation). Next, for each of the remaining block groups I took the same proportion of housing units as the land area that was included inside the buffered area (i.e. if the buffered area included 50% of a block group, I took 50% of the total housing units for that block group) and summed these to arrive at total housing units within the buffered area. Finally, I divided the total housing units by the area within the buffered to arrive at housing unit.
  - b. Source: Census 2010.
- 2) Median Household Income = \$54,315.
  - a. Note: average household income is not reported in the Census, but median is.
  - b. Source: American Community Survey, 2006-2010 5-Year Estimates.
- 3) I wasn't sure if you wanted these age cohorts aggregated into larger groups, but here is what is reported from the Census:
  - a. Age Under 5 = 180 persons  
Age 5-9 = 177 persons  
Age 10-14 = 167 persons  
Age 15-17 = 93 persons  
Age 18-19 = 73 persons  
Age 20 = 43 persons  
Age 21 = 27 persons  
Age 22-24 = 107 persons  
Age 25-29 = 150 persons  
Age 30-34 = 137 persons  
Age 35-39 = 158 persons  
Age 40-44 = 134 persons  
Age 45-49 = 174 persons  
Age 50-54 = 175 persons  
Age 55-59 = 138 persons  
Age 60-61 = 66 persons  
Age 62-64 = 94 persons  
Age 65-66 = 63 persons  
Age 67-69 = 68 persons  
Age 70-74 = 110 persons  
Age 75-79 = 48 persons

- Age 80-84 = 25 persons
- Age 85 and over = 26 persons
- Median Age = 36.9
- b. Source: Census 2010

Please let me know if I can provide any additional assistance.

Jason Howard  
GIS Program Manager  
Maricopa Association of Governments  
302 N. 1st Ave., Suite 300  
Phoenix, AZ 85003  
(602) 254-6300  
[jhoward@azmag.gov](mailto:jhoward@azmag.gov)

---

**From:** Heather Patel [<mailto:hpatel@AJCity.Net>]  
**Sent:** Wednesday, August 29, 2012 10:19 AM  
**To:** Jason Howard  
**Subject:** Census Data

Jason:

Thanks so much for the offer to help. As I mentioned, I am preparing a MAG Bike/Ped grant application and I am in need of some Census Data.

Basically we need

- 1) Housing density within ½ mile of our project location;
- 2) The average household income of the block group in which the project is located; and
- 3) The age of the residents within the block group in which our project is located.

Our project is to install sidewalks along Southern Avenue between Winchester and Royal Palms and on Winchester north of Southern to 16<sup>th</sup>.

This project location is on the southern border of CT 3.15 BG 1.

Thanks for your help.

Heather Patel  
Program Coordinator  
City of Apache Junction  
300 East Superstition Blvd  
Apache Junction, Arizona 85119  
Phone: (480) 474-2635  
Email: [hpatel@ajcity.net](mailto:hpatel@ajcity.net)

**Office Hours**

**Monday – Thursday, 7:00 am – 6:00 pm**  
**Closed Fridays**

## CONSTRUCTION COST ESTIMATE

**Southern/Winchester Sidewalk Installation**  
**Southern Avenue: Winchester Rd to Royal Palm Rd**  
**Winchester Road: Southern Ave to 16th Ave**

PW2009-08

PREPARED: September 13, 2012

ITEM	DESCRIPTION	QUANTITY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL COST
<b>REMOVALS &amp; RELOCATES</b>					
1	Remove Existing Vegetation & Dispose	1	LS	\$ 500.00	\$ 500.00
2	Remove Existing AC Pavement and Concrete and replacement	58	SY	\$ 25.00	\$ 1,450.00
3	Relocate Chainlink Fence	1	LS	\$ 200.00	\$ 200.00
<b>SUBTOTAL - REMOVE &amp; RELOCATE</b>					<b>\$ 2,150.00</b>
<b>CONSTRUCTION ITEMS</b>					
4	Construct 6" Vertical Curb & Gutter Per MAG Std. Detail 220, Type "A"	20	LF	\$ 10.00	\$ 200.00
	Install 20-Foot driveway per CoAJ Std. Dtl. AJ-24.1	8	EA	\$ 1,000.00	\$ 8,000.00
5	Concrete 5' Sidewalk, Std. Detail 230 (5" Thickness)	8,160	SF	\$ 5.00	\$ 40,800.00
6	Concrete 6' Sidewalk, Std. Detail 230 (5" Thickness)	12,480	SF	\$ 5.00	\$ 62,400.00
7	Concrete Scupper per MAG Std. Dtl. 206-1 Modified	1	EA	\$ 3,500.00	\$ 3,500.00
8	Sidewalk Ramp per ADOT Std. Dtl. C-05.30	17	EA	\$ 1,500.00	\$ 25,500.00
<b>SUBTOTAL - CONSTRUCTION ITEMS</b>					<b>\$ 140,400.00</b>
<b>MOBILIZATION AND ADMINISTRATION ITEMS</b>					
9	Contractor Mobilization (8% of construction cost)	1	LS	\$ 11,404.00	\$ 11,404.00
10	Traffic Control (8% of construction cost)	1	LS	\$ 11,404.00	\$ 11,404.00
11	Construction Survey & Layout (3% of construction cost)	1	LS	\$ 4,276.50	\$ 4,276.50
12	Construction Contingency (10% of construction cost)	1	LS	\$ 14,255.00	\$ 14,255.00
13	Construction Administration (18% of construction cost)	1	LS	\$ 25,659.00	\$ 25,659.00
<b>SUBTOTAL - MOBILIZATION &amp; ADMINISTRATION</b>					<b>\$ 66,998.50</b>
					<b>\$ 209,548.50</b>

<b>CMP Qualitative Criteria Evaluation Questions</b>		<b>1</b>
<b>Project Identifiers</b>	Project ID Number	
	Location	Apache Junction
	Work Description	Sidewalks
<b>Connectivity Measure (30%)</b>	1) Does the project improve connectivity in the MAG Regional Bicycle and Pedestrian network and/or is it multi-jurisdictional in nature?	5
	2) Does the project promote or improve access to short trip destinations, such as activity centers, commercial destinations, libraries, parks, and schools?	10
	3) Does the project improve connections to transit, regional intermodal, or emergency facilities?	8
	4) Does the project encourage increased alternative mode share?	6
<b>Modal Specific Measure (50%)</b>	5) Does the project help reduce pedestrian and bike/vehicle conflicts, travel time variability, and/or crash risk factors?	10
	6) Does the project help reduce travel time or delay to motorists, bicyclists, and/or pedestrians?	7
	7) Does the project help improve the comfort of bicyclists and pedestrians?	10
	8) Does the project create a sense of place or create an attractive atmosphere?	10
<b>Design &amp; Support Measure</b>	9) Are the project elements supported by the MAG Pedestrian Policies and Design Guidelines and/or AASHTO Guide for Bicycle Facilities?	6

<b>(20%)</b>	10) Is the project supported by the jurisdiction or agency's policies, plans, and/or objectives?	10
Connectivity Measure		7.25
Modal Specific Measure		9.25
Design & Support Measure		8.00
<b>Weighted Total</b>		<b>8.40</b>