



**Transportation Alternatives / CMAQ Application for
FY 2018, 2019, and 2020 Projects**

South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road

City of Mesa

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 21, 2015 at 10:00 a.m.**

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

Mesa: South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information

1. Name of Sponsoring Agency	Mesa
2. Agency Contact Name	James Hash
3. Phone Number of Agency Contact	480-644-3556
4. E-Mail Address of Agency Contact	James.Hash@MesaAz.gov
5. Mailing Address of Agency Contact	MS 2000 300 E. Sixth Street P.O. Box 1466 Mesa, Arizona 85211-1466

Project Description

6. Please provide the Project Title.	South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road
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7. Please provide a concise, specific description of the project (250 character limit):

South Canal Shared Use Path, which begins at the east side of the existing Consolidated Canal Shared Use Path, then extends northeasterly within the SRP South Canal ROW where it will join the SRP Eastern Canal terminating on the west-side of McDowell Road. Users will have the benefit of a 10-foot shared use path and comfort amenities such as lighting, nodes, trailhead and way finding signs. This project will connect residential and business areas, as well as providing a safe lit recreational pathway for users. The pathway will provide a connection to new, existing, and future residential and commercial developments along the corridor. In addition, the pathway will provide connectivity between the Mesa and Maricopa County’s Sun Circle and Maricopa Trail system thus making this a regionally significant project. The pathway will be located within the SRP ROW and requires no additional ROW acquisitions.

8. Please provide the project limits:

Shared-use path along the SRP, South Canal corridor from the Consolidated Canal Shared Use Path to McDowell Road.

Mesa : South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road

PART B-DETAILED PROJECT DESCRIPTION

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

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

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

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

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

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

- | | |
|--|---|
| <input type="checkbox"/> Bicycle Lane (4' min. w/o curb/gutter) | <input type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 Monitor |
| <input 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 checked="" type="checkbox"/> Signalized Crossing |
| <input checked="" type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input type="checkbox"/> Sidewalk (5' min.) | <input style="width: 100%; height: 20px;" 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 checked="" type="checkbox"/> Tunnel (underpass) | <input style="width: 100%; height: 20px;" type="text" value="Guardrails, lighting and a trailhead at path and arterial roads intersections."/> |
| <input checked="" type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input checked="" type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|--|
| <input type="checkbox"/> 4 Number of Bike racks/lockers | <input type="checkbox"/> 2 Number of Seating/Rest Area(s) |
| <input type="checkbox"/> 0 Number of Drinking Fountains | <input type="checkbox"/> 2 Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> 9 Number of Way-finding Signs | <input type="checkbox"/> 2 Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> 8 Number of Trash receptacles | Other: |
| <input type="checkbox"/> 25 Number of Trees | <input style="width: 100%; height: 20px;" type="text"/> |
| <input type="checkbox"/> 5 Number of new openings in street walls | |
| <input type="checkbox"/> 2 Number of Shade Structures | |

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

The construction of the South Canal Shared Use Path extending from the Consolidated Canal to McDowell Road will address an identified medium-high need gap identified in the 2012 Mesa Bicycle master plan. The construction will tie in to the existing and on-going shared use path efforts on the Consolidated canal and to the newly constructed Porter Park Pathway. This pathway will also provide users connectivity to major arterial roads (at EMcKellips, Gilbert and McDowell), transit facilities, and residential and business developments.

Mesa : South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road

PART B-DETAILED PROJECT DESCRIPTION

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

This project will construct 3.5 miles of shared-use asphalt path that is 10 foot wide, ADA accessible, with guardrails, lighting and a trailhead at path and arterial roads intersections resolving a missing link in the regional non-motorized system. The path will remove the "dead-end barrier" created by the freeway system and allow all users to link to parks, commercial districts, spring training districts and public transportation.

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

This project will serve as an extension/continuation of the existing twenty mile Consolidated Canal/ Sun Circle Trail system that extends through the Town of Gilbert and the City Chandler with its terminus at Hunt Hwy. At Consolidated/Crosscut/South Canal convergence the South Canal Shared Use Path project will connect and extend this existing shared use pathway farther northeast. These developments and others located within close proximity to the corridor will play a major role in connecting this project to the broader community and region while continuing to develop a regionally connected multi-modal network. The linkage of this project to these major thoroughfares provides another interconnection on to bike lanes and sidewalks that are or will be part of these roadway corridors. The pathway will be located within the SRP right-of-way.

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

Guardrail or safety barriers as needed.

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

- Yes
- No

Please Explain:

By educating residents on Mesa's bicycle and pedestrian routes and paths, we provide safer alternatives to their mobility.

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

This pathway provides an alternative for mobilization in an ADA and lit path for bicyclist and pedestrians that is not along City roads, therefore reducing significantly the conflicts between this modes and vehicles.

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

This project will design and construct a shared use asphalt path that is 10-foot wide and ADA accessible.

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PART B-DETAILED PROJECT DESCRIPTION

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

The construction of this pathway will connect to the Consolidated Shared Use Path extending from Baseline to Center Street within the City of Mesa, and provides for a safe crossing at major arterials such as Horne, McKellips Road, Gilbert Road and McDowell Road.

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

The South Canal Shared Use Path Project will play a major role in the continued development of the City of Mesa’s multi-modal transportation network. It will initially create a new three and a half mile ten-foot wide shared use pathway project in the East Valley that will be available for use by anyone including, but not limited to: residents, commuters, visitors, and recreational enthusiasts. It will help to facilitate continued development of a linked shared use pathway corridor throughout the East Valley. This project will improve, facilitate, and/or create linkages for shared use pathway users to existing, and planned residential developments, commercial areas, employment centers, shopping areas and several of the City of Mesa recreational facilities in Council District 1 including Mesa’s public Park of the Canals and Shepherder Parks. In addition, and most importantly, the South Canal Shared-Use Pathway project will create another vital link to the City of Mesa and the region’s overall recreational shared-use pathway network.

14. Connectivity: (Check all that apply)

- Project fills a gap in the system
 Explain:
 Identified medium-high need gap identified in the 2012 Mesa Bicycle master plan
- Project connects to other local bikeways
 List of connected bikeways:
 Existing: Bike lanes along McDowell, Gilbert, Horne, and McKellips Roads and Mesa's existing Consolidated Canal Shared Use Path and Porter Park Pathway.
- Multi Jurisdictional Project (please include letter of support (See Part C)
 List of Participating Jurisdictions:
 Town of Gilbert, Salt River Project (SRP), Maricopa County Parks Department, Arizona Department of Transportation.
- 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:
 Commuter Express Bus 541, 532

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PART B-DETAILED PROJECT DESCRIPTION

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

Within 1/2 mile
 List:

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

Within 1/2 mile
 List:

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:

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

Within 1/2 mile
 List:

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

Within 1/2 mile
 List:

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:

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PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served:

[MAG Demographic Mapping](#)

People Per Square Mile

% Families in Poverty

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

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

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

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

Federal Functional Classification of the Facility:

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

Type of Facility the Improvement will be located on:

Length (in Miles)

Posted Speed Limit (MPH)

Number of Travel Lanes Before Project

Number of Travel Lanes After Project

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PART B-DETAILED PROJECT DESCRIPTION

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

ADT Estimate

Date Counted

Name of road the traffic count was taken from

Description of Methodology and Source used for the ADT Estimate

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

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

27. Current ROW: (Check all that apply)

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

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

Mainline and valves will be protected or moved as needed, which can be determined in the design stage. The design of the pathway and its alignment will take in consideration the location of the main line. Pull boxes will be protected per SRP standards.

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

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

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

With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="text" value="Required"/>
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="text" value="Required"/>
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Required"/>
With new development or during development retrofits, shared-use paths are:	<input type="text" value="Required"/>
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="Yes"/>
Complete Streets Policy	<input type="text" value="Yes"/>

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:

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PART B-DETAILED PROJECT DESCRIPTION

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

Increase in mode share percentages over the next 3 years as well as daily and annual bicycle and pedestrian counting via Eco-Counter.

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?

Permanent Eco-Counter Multi will be installed to measure annual trends and counts up to a 15 minute interval that are delivered to the Bicycle and Pedestrian Program Managers Desktop.

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.

This project will include way finding and interpretive aspects that offer educational experience along the path.

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

Yes, the way finding will include 1.Circulation systems elements: The infrastructure that allows people to move around within a space; 2.Spatial cues elements: The observable qualities of a space that help people make sense of their surroundings; and 3.Signage elements: Instructional signs, symbols and iconography to guide people

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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 Mesa	Project Title:	South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road	Application Date:	9/17/2015
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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	\$19,930.00	\$19,930.00	No	\$0.00	\$19,930.00		
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$7,200.00	\$7,200.00	No	\$0.00	\$7,200.00		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	4. HAZMAT ASSESSMENT	LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
	Subtotal Scoping (Part A)				\$32,130.00	\$32,130.00	\$0.00	\$32,130.00		
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$99,685.00	\$99,685.00	No	\$0.00	\$99,685.00		
	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	\$3,600.00	\$3,600.00	No	\$0.00	\$3,600.00		
	4. SWPPP	LS	1	\$4,500.00	\$4,500.00	No	\$0.00	\$4,500.00		
	Subtotal PE (Part B)				\$111,785.00	\$111,785.00	\$0.00	\$111,785.00		
Subtotal Preliminary Engineering (Part A + Part B)					\$143,915.00	\$0.00	\$143,915.00			
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	LS	1	\$0.00	\$0.00	No	\$0.00	\$0.00		
Subtotal Right-of-Way Acquisition (Part C)					\$0.00	\$0.00	\$0.00			
D. Utility Relocation	1. Utility Relocation	LS	1	\$30,000.00	\$30,000.00	No	\$0.00	\$30,000.00		
Subtotal Utility Relocation (Part D)					\$30,000.00	\$0.00	\$30,000.00			
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	\$54,000.00	\$54,000.00	Yes	\$50,922.00	\$3,078.00
		Site Preparation		LS	1	\$23,000.00	\$23,000.00	Yes	\$21,689.00	\$1,311.00
		Demolition	Sawcut	LF	50	\$25.00	\$1,250.00	Yes	\$1,178.75	\$71.25
			Remove Structures and Obstructions	LS	6	\$5,000.00	\$30,000.00	Yes	\$28,290.00	\$1,710.00
			Remove Fencing	LF	1,260	\$5.00	\$6,300.00	Yes	\$5,940.90	\$359.10
			Remove Structural Concrete	CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Remove Asphaltic Concrete Pavement	CY	135	\$10.00	\$1,350.00	Yes	\$1,273.05	\$76.95
		Remove Concrete Sidewalks, Slabs	CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Hazmat Abatement		LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Retaining Wall - Reinforced Concrete Cantilevered		SF	0	\$40.00	\$0.00	Yes	\$0.00	\$0.00
		Earthwork	General Excavation	CY	511	\$10.00	\$5,110.00	Yes	\$4,818.73	\$291.27
			Drainage Excavation	CY	706	\$7.00	\$4,942.00	Yes	\$4,660.31	\$281.69
			Structural Excavation	CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Structural Backfill	CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Borrow (In Place)	CY	195	\$20.00	\$3,900.00	Yes	\$3,677.70	\$222.30
		Curb & Gutter		LF	70	\$20.00	\$1,400.00	Yes	\$1,320.20	\$79.80
		Aggregate Base		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Pathway Or Sidewalk Materials	Concrete	SF	35,200	\$12.00	\$422,400.00	Yes	\$398,323.20	\$24,076.80
			Colored Concrete	SF	0	\$15.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Color Concrete	SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Precast Concrete Pavers	SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Asphaltic Concrete	Ton	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Polymer or Resin Stabilized Surface	SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Crosswalk Enhancement	Concrete Pavers	SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Asphalt	SF	50	\$25.00	\$1,250.00	Yes	\$1,178.75	\$71.25
			Stamped Concrete	SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Concrete	SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Integral Color Concrete		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Pedestrian ADA Ramp		SF	250	\$12.00	\$3,000.00	Yes	\$2,829.00	\$171.00
		Culvert Extensions		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
Pedestrian Lighting Including Conduit And Trenching		Each	60	\$3,000.00	\$180,000.00	Yes	\$169,740.00	\$10,260.00		
Handrail	Standard	LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
	Decorative	LF	3,000	\$75.00	\$225,000.00	Yes	\$212,175.00	\$12,825.00		
Subtotal Hardscape Construction					\$962,902.00	\$908,016.59	\$54,885.41			

Mesa: South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road

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 Mesa	Project Title:	South Canal Shared Use Path: Consolidated Canal Shared Use Path to McDowell Road	Application Date:	9/17/2015
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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	Requirements	Each	2	\$25,000.00	\$50,000.00	Yes	\$47,150.00	\$2,850.00	
		Trees (15 Gallon Size)	Each	20	\$5,000.00	\$100,000.00	Yes	\$94,300.00	\$5,700.00	
		Trees (5 Gallon Size)	Each	5	\$1,250.00	\$6,250.00	Yes	\$5,893.75	\$356.25	
		Shrubs (5 Gallon Size)	Each	0	\$500.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (1 Gallon Size)	Each	0	\$250.00	\$0.00	Yes	\$0.00	\$0.00	
		Cactus (5 Gallon Size)	Each	0	\$85.00	\$0.00	Yes	\$0.00	\$0.00	
		Mulch	Decomposed Granite	CY	75	\$35.00	\$2,625.00	Yes	\$2,475	\$150
			Organic	CY	90	\$20.00	\$1,800.00	Yes	\$1,697	\$103
		Topsoil	CY	475	\$10.00	\$4,750.00	Yes	\$4,479	\$271	
		Seeding	Acre	205	\$40.00	\$8,200.00	Yes	\$7,733	\$467	
		Turf Sod	SY	784	\$82.00	\$64,305.08	Yes	\$60,640	\$3,665	
		Boulders		Each	0	\$0.00	\$0.00	Yes	\$0	\$0
		Irrigation System	Drip	SF	0	\$0.00	\$0.00	Yes	\$0	\$0
			Turf	SF	0	\$2,000.00	\$0.00	Yes	\$0	\$0
	Sleeving For Irrigation System	Directional Bore	LF	0	\$0.00	\$0.00	Yes	\$0	\$0	
		Cut and Patch	LF	0	\$0.00	\$0.00	Yes	\$0	\$0	
	Landscape Header Curb	LF	132,335	\$0.40	\$52,934.06	Yes	\$49,917	\$3,017		
	Landscape Establishment	LS	0	\$0.00	\$0.00	Yes	\$0	\$0		
	Subtotal Landscaping & Irrigation Items					\$290,864		\$274,285	\$16,579	
	3. Site Furnishings	Benches	Each	4	\$5,000.00	\$20,000	Yes	\$18,860	\$1,140	
		Seatwalls	LF	0	\$12.00	\$0	Yes	\$0	\$0	
		Bike Racks	Each	4	\$10,500.00	\$42,000	Yes	\$39,606	\$2,394	
		Trash Receptacles	Each	8	\$200.00	\$1,600	Yes	\$1,509	\$91	
		Drinking Fountains	Each	0	\$1,500.00	\$0	Yes	\$0	\$0	
		Signage (Standard Traffic Control)	Each	0	\$60,000.00	\$0	Yes	\$0	\$0	
		Signage (Wayfinding)	Each	9	\$15,000.00	\$135,000	Yes	\$127,305	\$7,695	
		Tree Grates	Each	0	\$125.00	\$0	Yes	\$0	\$0	
		Subtotal Site Furnishings					\$198,600		\$187,280	\$11,320
	4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Bicycle and Pedestrian Counter	Each	2	\$1,200.00	\$2,400	Yes	\$2,263	\$137	
		Nodes/Seating areas	Each	2	\$35,000.00	\$70,000	Yes	\$50,000	\$20,000	Some aesthetics included
				0	\$0.00	\$0	Yes	\$0	\$0	
				0	\$0.00	\$0	Yes	\$0	\$0	
				0	\$0.00	\$0	Yes	\$0	\$0	
				0	\$0.00	\$0	Yes	\$0	\$0	
				0	\$0.00	\$0	Yes	\$0	\$0	
				0	\$0.00	\$0	Yes	\$0	\$0	
	Subtotal Other Construction					\$72,400		\$52,263	\$20,137	
	5. Mobilization And Administration Costs	Contractor Mobilization	LS	1	\$92,629.00	\$92,629	Yes	\$87,349	\$5,280	
		Traffic Control	LS	1	\$120,000.00	\$120,000	Yes	\$113,160	\$6,840	
Construction Survey & Layout		LS	1	\$10,000.00	\$10,000	Yes	\$9,430	\$570		
Construction Contingencies		LS	1	\$231,570.00	\$231,570	Yes	\$218,371	\$13,199		
Construction Administration		LS	1	\$162,099.00	\$162,099	Yes	\$152,859	\$9,240		
Subtotal Mobilization & Administration Costs					\$616,298		\$581,169	\$35,129		
Subtotal Construction Or Implementation Cost (Part E)						1	\$126,464.00	\$2,141,064	\$2,003,013	\$138,051
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)						1	\$120,000.00	\$2,314,979	\$2,003,013	\$311,966
G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,000						1	\$10,000.00	\$10,000	No	\$0
H. Total Project Cost Including ADOT Fees (Part F + Part G)						1	\$316,160.00	\$2,324,979	\$2,003,013	\$321,966
						1	\$221,312.00			

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	\$10,000	
2. Design	\$143,915	
3. Right of way	\$0	
4. Utilities	\$30,000	
5. Construction	\$2,141,064	
6. Contingency	\$231,570	No more than 20% of Construction Cost
7. Total Cost	\$2,324,979	

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

9. Expected Annual Maintenance Cost

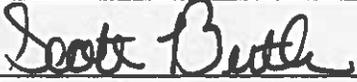
10. Identify Source of Maintenance Funds

Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)	2017	Design Multiuse Path	Sales Tax	\$153,915	Not Available	\$153,915	100.0%
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)	2018	Utility relocation along Multiuse path	Sales Tax	\$30,000	Not Available	\$30,000	100.0%
14. Other (Optional)				\$0	Not Available	\$0	
15. Construction	2019	Construction of Multiuse Path	Sales Tax	\$138,051	\$2,003,013	\$2,141,064	6.4%
16. Total Costs				\$321,966	\$2,003,013	\$2,324,979	13.8%

PART F - SIGNATURE AND CHECKLIST	
<h1>Checklist</h1>	
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.	Yes
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	No
PART D - Cost Estimate Worksheet	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	Yes
Part A - Scoping is complete	Yes
Part B - Final Preliminary Engineering Design is complete	Yes
Part C - Right-of-Way Acquisition is complete	Yes
Part D - Utility Relocation is complete	Yes
Part E - Construction or Implementation is complete	Yes
Parts F, G, and H - Costs are complete and accurate	Yes
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	Yes
Field 8 - 10 are complete	Yes
Fields 11 – 15 Years are complete	Yes
Fields 11 – 15 Local Funding Sources are complete	Yes
Fields 11 – 15 Local Costs are complete and accurate	Yes
Field 11 - 15 Federal Costs are complete and accurate	Yes
Field 16 Total Costs are complete and accurate	Yes
PART F - Signature and Checklist	Complete?
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager/administrator or designated representative.	Yes
Name, title and date fields under the signature are completed.	Yes

SIGNATURE(S):

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

Signature:	
Name:	Scott J. Butler
Title:	Deputy City Manager
Date:	9/17/15

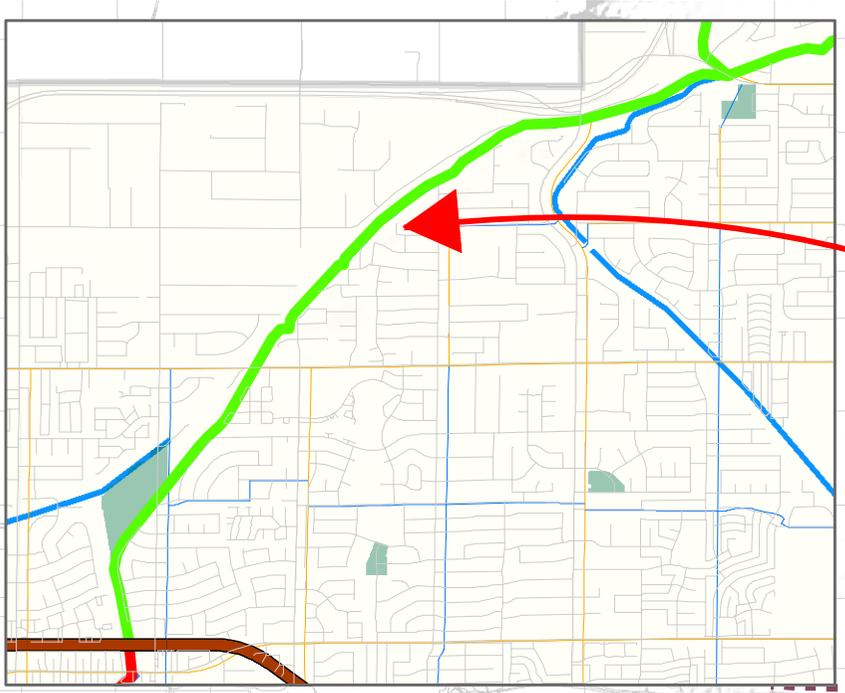
South Canal Shared Use Pathway McDowell Rd to the Consolidated Canal Shared Use Path

Fountain Hills

Gilbert

Chandler

Queen Creek



LEGEND

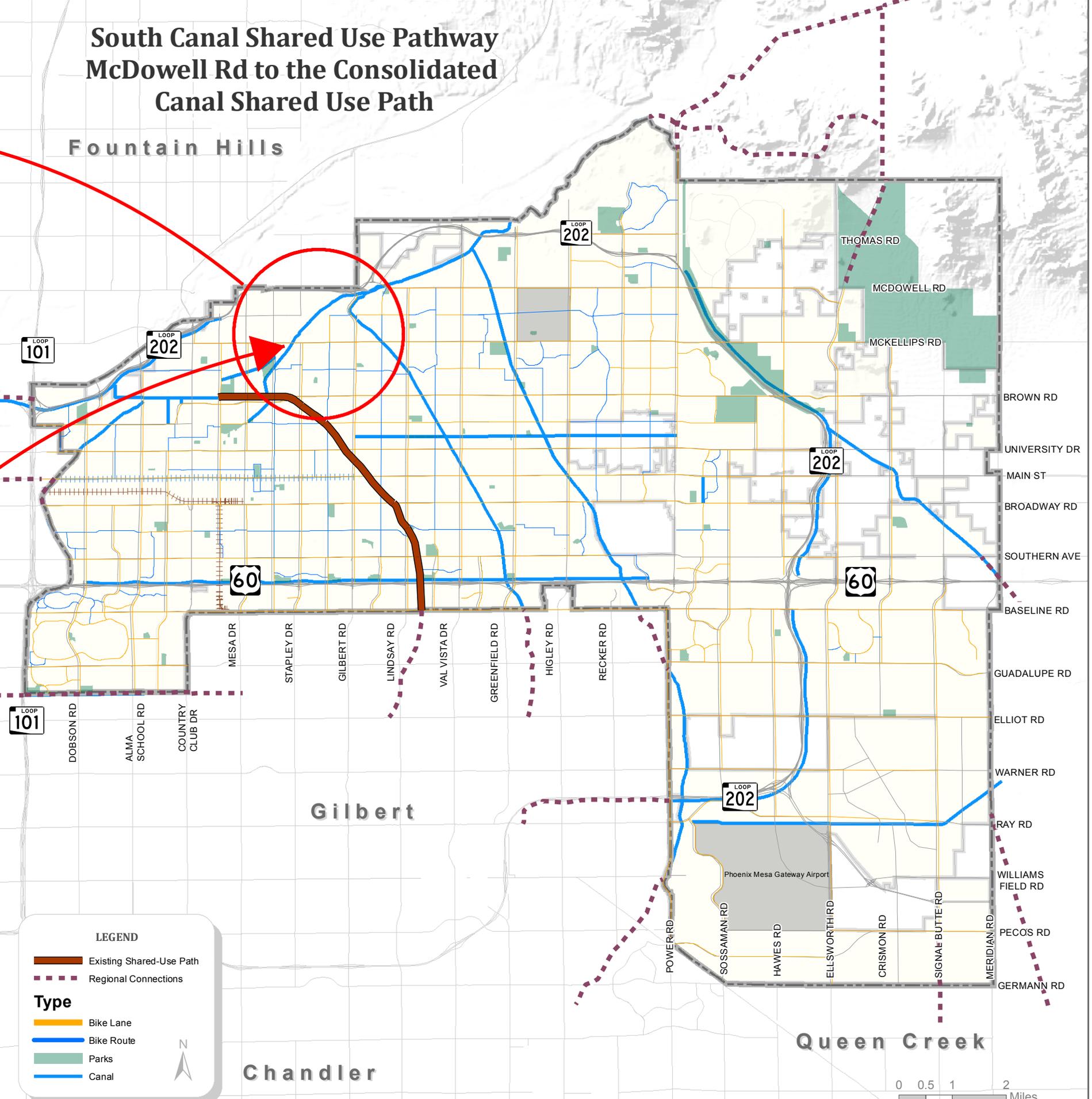
- Existing Shared-Use Path
- Regional Connections

Type

- Bike Lane
- Bike Route
- Parks
- Canal

County boundary

- County name
- County seat
- State capital





South Canal at the connection point of the Consolidated Canal Shared Use Pathway.



South Canal at Horne. Proposed connection point to the Park of the Canals.



South Canal at McKellips Road. Project will include signalized crossing for users to safely cross McKellips Road



Existing grade separated Crossing at Gilbert Road on the South Canal.

DESIGN DATA
 Min Design Speed
 Path = 20 MPH

MIDPOINT OF PROJECT
 Central Zone
 State Plane Coordinates (NAD 27)
 X = 541,000
 Y = 896,700

LENGTH OF PROJECT
 Sta 0+00 to 120+00.00 = 12,000.00'
 Gross & Net Length = 12,000.00' = 2.30 Miles

Sheet No.

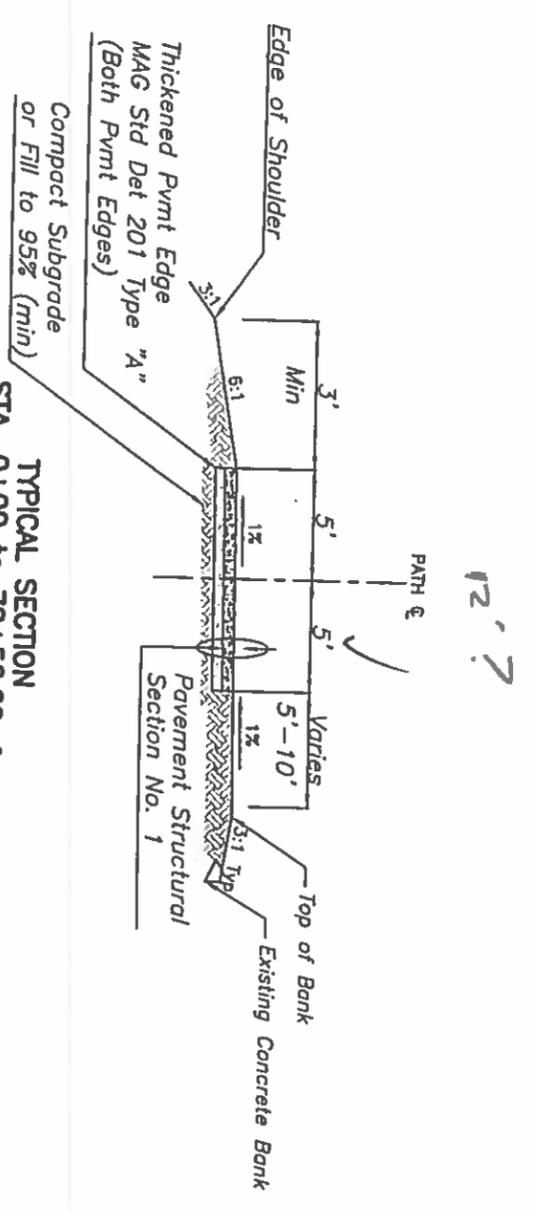
- 1
- 2
- 3
- 4
- 5-30
- 31
- 32-38
- 39

INDEX OF SHEETS

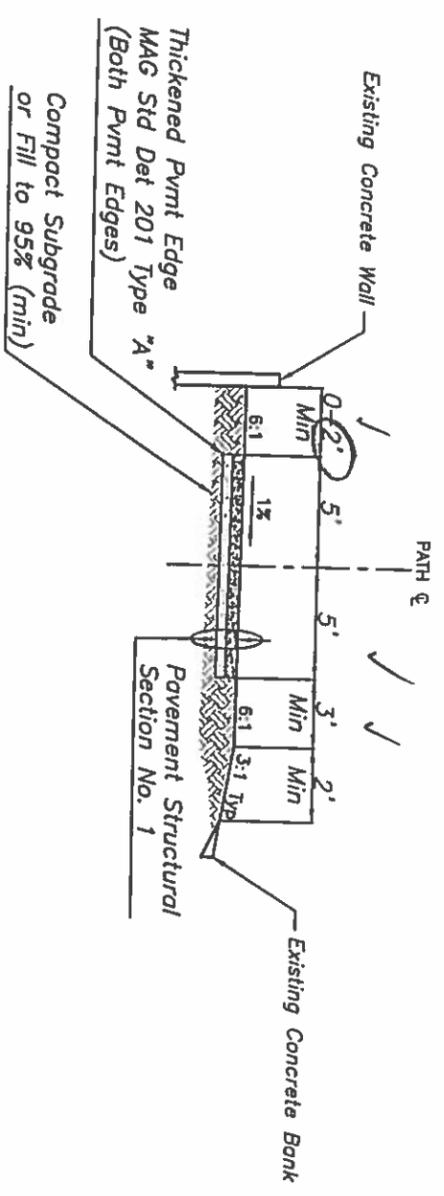
- Sheet Type
- Face Sheet
- Design Sheet
- Detail
- Geometric Data
- Plan & Profile Sheets
- Lighting Notes and Quantities
- Lighting Plans
- Signing and Striping Details

FILE#	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	DATE
9	AZ	CM MES 0 (20)A	2	39	

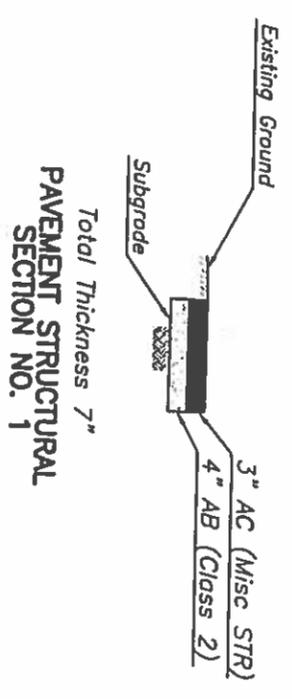
0000 MA MES



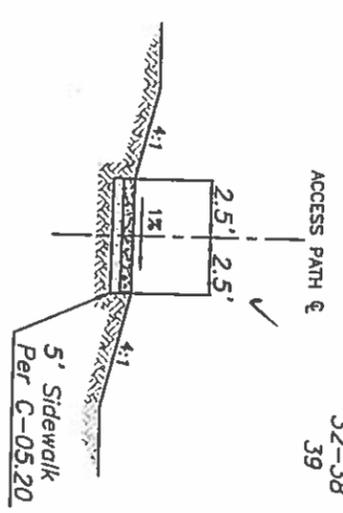
TYPICAL SECTION
 STA. 0+00 to 78+56.29 &
 83+58 TO 87+20
 87+00.88 TO 193+42.19



TYPICAL SECTION
 STA. 78+56.29 to 82+18.28 & 83+57.70 to 87+00.88



Total Thickness 7"
PAVEMENT STRUCTURAL SECTION NO. 1



ACCESS PATH
 LEHI ACCESS STA. 91.84 TO 5+45.59
 MCDOWELL ACCESS STA. 400 TO 6+84.39

GENERAL NOTES

The roadway plans have been designed utilizing the 2004 Construction Standard Drawings (C-Series), and current revisions. Refer to the 1A Sheet for a listing of the current revision dates.

The project roadway shall be striped by the contractor in accordance with the current edition of the Signing and Marking Standard Drawings (M & S - Series).

Existing utility locations are approximate. The contractor shall verify the exact location and depth of all underground facilities.



DESIGN	DATE	NAME	LOCATION	PROJECT	DATE	SCALE
DESIGN	12/04		ARIZONA DEPARTMENT OF TRANSPORTATION	DESIGN SHEET	12/04	1" = 10'
DRAWN	12/04		INTERMODAL TRANSPORTATION DIVISION			
CHECKED	12/04					
DATE	12/04					

ARIZONA DEPARTMENT OF TRANSPORTATION
 INTERMODAL TRANSPORTATION DIVISION

DESIGN SHEET

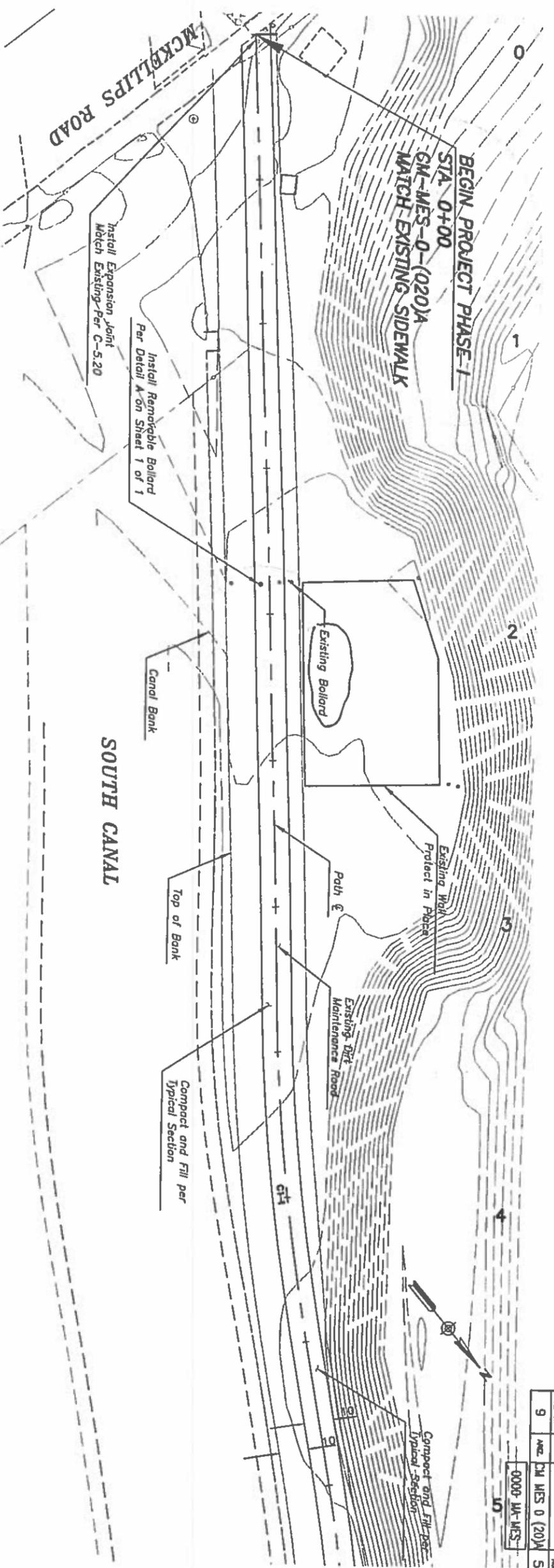
RTTEC ENGINEERING, Inc.
 602-263-1100
 1-800-STAKE-IT

PRELIMINARY
 NOT FOR CONSTRUCTION OR RECORDING
 90%
 SHEET 1 OF 1

TRACS NO. SS485 01C CM-MES-0-(020)A

PLAN NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	5	39	

0000-MT-MES



602-263-1100
 1-800-STAKE-IT

DESIGN	DATE	BY	CHKD	DATE
DESIGNED	12/05	DS	DS	12/05
CHECKED	12/05	DS	DS	12/05

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION

PLAN AND PROFILE
 Sta. 0+00 to 5+00

60%
 PRELIMINARY

NOT FOR
 CONSTRUCTION
 OR RECORDING

TRACS NO. SS485 03D

CM-MES-0-(020)A

SHEET 1 OF 26

RESOLUTION NO. 10676

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MESA, MARICOPA COUNTY, ARIZONA, AUTHORIZING THE SUBMITTAL OF A GRANT APPLICATION FOR THE CONSTRUCTION OF SOUTH CANAL MCDOWELL ROAD TO L202/VAL VISTA DRIVE SHARED-USE PATH, AND AUTHORIZING THE CITY MANAGER TO EXECUTE SUCH DOCUMENTS AS MAY BE NECESSARY TO EVIDENCE AND IMPLEMENT THE GRANT IF AWARDED.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MESA, MARICOPA COUNTY, AS FOLLOWS:

Section 1: That the City of Mesa does hereby approve the submittal of an application for the Grant, and accept all conditions of the Arizona Department of Transportation, Transportation Enhancement Grant, if awarded to the City, including without limitation, the requirement that the City pay all cost in excess of the amount of the Grant, provide matching funds equal to 5.7% of the Grant award, prepare the project for bid and authorize the project for construction within the federal aid fiscal year where the grant is programmed, and agree to maintain the project in perpetuity after its completion.

Section 2: That the City Manager or his designee is hereby authorized to take such actions and to execute such documents as are necessary or appropriate to effectuate the purposes of this resolution and to implement the Grant, if awarded to the City of Mesa.

PASSED AND ADOPTED by the City Council of the City of Mesa, Maricopa County, Arizona, this 14th day of September, 2015.

APPROVED:


MAYOR

ATTEST:


CITY CLERK





*P.O. Box 52025
Mail Station: PAB106
Phoenix, Arizona 85072-2025
(602) 236-5900
www.srpnet.com*

September 3, 2015

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, Arizona 85003

Subject: City of Mesa Application to Transportation Alternative and Congestion Mitigation and Air Quality Program FY 2019 and FY2020 Projects South Canal Shared Use Path - McDowell Road to the Consolidated Canal Shared Use Pathway

Dear MAG:

I am pleased to provide this letter of support for City of Mesa's application under the Transportation Alternatives (TA) and Congestion Mitigation and Air Quality (CMAQ) Programs. It is my understanding that the TA and CMAQ funding will be utilized to construct a 3.5 mile, 10-foot shared use path and comfort amenities such as lighting, nodes, trailhead signs and way finding.

SRP fully supports development of the South Canal Shared Use Pathway and plans to be actively involved in the design review and approval process as well as with utility coordination. We look forward to working with the City of Mesa to implement this project and enhancing regional connectivity.

Please feel free to contact me at (602) 236-5380 or jim.duncan@srpnet.com if I may be of further assistance.

Sincerely,

A handwritten signature in blue ink that reads "Jim Duncan". The signature is fluid and cursive, with a large initial "J" and "D".

Jim Duncan
Principal Engineering Analyst