

PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION

CMAQ Funding Available for Federal Fiscal Year 2015, 206 and 2017

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 Paving Unpaved Road Projects to be included in the FY2014-2018 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 p.m. Wednesday, September 19, 2012**. And the application is to be submitted electronically. 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 (602) 254-6300 or contact them by e-mail at the following addresses:

<mailto:state@mag.maricopa.gov>

<mailto:tkennedy@azmag.gov>

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

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information

1. Agency Name	Maricopa County
2. Name:	Eric Mayer
3. Phone:	602-506-8367
4. E-Mail:	EricMayer@mail.maricopa.gov
5. Mailing Address:	2901 West Durango Street Phoenix, AZ 85009

Project Description

6. Please provide the Project Title.	Carefree Highway Area PM-10 Paving
7. Please provide a general description of the project.	Maricopa County Department of Transportation has identified 10th Street from Dove Valley Road to Paint Your Wagon Trail, and Dove Valley Road from 12th Street to 14th Street, to be considered for improvements under its Low Volume Road Program in which MCDOT plans to suppress the dust generated by paving frequently traveled dirt roads to improve air quality and other significant concerns.
8. Please attach a map showing the location(s) of the roadway(s), alley(s) or shoulder(s) to be paved.	Please attach map with transmittal
9. Please enter the number of segments to be included in the project (See definition of segments below).	2
10. Please review the PM-10 Monitor Locations to verify that the proposed project is in the nonattainment area. Enter 'Yes' or 'No'. Link to PM-10 Monitor Locations Map	Yes

Site Visit Information

PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION

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11. It is required that the member agency proposing a project to be funded with federal funds has completed a site visit of the project within 60 days prior to the application due date. This is to help ensure familiarity with the project as it relates to eligibility, readiness, environmental issues, right of way/ownership issues, and utility conflicts.

a. Name of Person who completed site visit	Juan Castaneda
b. Date site visit completed	9/13/2012
c. Pictures of the site visit are required.	Please attach pictures with transmittal

SEGMENTS: Each project will include one or more segments of roadway, alley or shoulder to be improved. A segment is defined as either:

- a. A length of roadway, alley or shoulder to be improved with fixed starting and ending limit that has a relatively uniform cross section, or
- b. Discontinuous shoulder improvements along a continuous length of roadway with a fixed starting and ending limit that has a relatively uniform cross section.

The segment may curve or change direction, but must be continuous and have a relatively uniform cross section. **PART B MUST BE SUBMITTED FOR EACH SEGMENT OF THE PROJECT. If a MAG member agency is paving 'Various Locations', these must be defined and noted as separate Segments.**

PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

This part of the form identifies the current characteristics and proposed improvements for each segment of the project. A separate Part B must be completed for each segment. e.g. If in field #9 of Part A, it was indicated that 5 segments were included in the project, 5 Part B's must be completed in the application. The additional Part Bs are separate tabs in this excel file noted as: Part_B2, Part_B3, etc.

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.

Section 1 - Segment Description	Segment 1
1. Segment Location - Include segment beginning and ending limits	10th Street, Dove Valley Road to Paint Your Wagon Trail
2. Length and Curb Miles	
a. Length (Miles) of the segment	0.47
b. Curb Miles: Miles of shoulders or curbs to be paved by direction (e.g. if discontinuous shoulder sections on both sides of the roadway are to be paved, enter the combined distance of shoulders to be paved).	0
3. Please provide a map/graphic/photo that clearly shows the segment alignment and features that cross into or abut the alignment such as: washes, canals, railroad crossings, and other crossing features that may affect the project.	Please attach map with transmittal
4. Please provide a simple diagram of a typical cross section, including widths, of the segment that shows the current right of way limits, sidewalks and shoulders (if any), and the lanes of travel.	
5. Will the requested paving project pave a road, alley or shoulder within 4 miles of a PM-10 monitor? Which	YES
Link to PM1- Monitors Map on the MAG Website	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved. Also is the surface graveled or use dust suppressants?	No formal geotechnical investigation was performed for this project. However, it was observed in the field that the current traveled roadway is well compacted and made up of gravelly sandy clay material.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	75
9. Please describe methodology used to calculate ADT	Standard tube count.

PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

10. 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. In the box to the right, please describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

All natural washes within project limits that cross 10th Street drain from the north to the south. Since the disturbance within any "waters of the US" will be well under 0.10 acre it is anticipated that this project will meet the conditions of a non-notifying nationwide permit (NWP) #14 under Section 404 of the Clean Water Act. More than one acre of ground disturbance is anticipated for this project consequently, a storm water pollution prevention plan will need to be prepared. An Arizona Pollutant Discharge Elimination System (AZPDES) notice of intent and notice of termination will also be prepared and submitted to the Arizona Department of Environmental Quality (ADEQ) by MCDOT and the contractor. This project is not located in an urbanized area of Maricopa County therefore requirements of the Maricopa County Municipal Separate Storm Sewer System (MS4) do not apply. There are no delineated floodplains within the project limits. A preliminary investigation of the project area will be performed by MCDOT in order to identify if any cultural resources would be impacted during the construction of this project. The natural vegetation within the right-of-way corridor that may be impacted during construction consists of several species of trees as well some cacti species and creosote bush. MCDOT will review the project data and conduct additional research and evaluation for potential hazardous material and socio-economic impacts to determine and prepare any environmental clearance, impact statement, and/or required permits.

11. Current ROW: (Choose All that Apply and select Yes or No)
 Agency owns all ROW Needed
 ROW to be acquired
 Owners will donate ROW
 Condemnation may be required

Yes
 No
 No
 No

12. Please describe any right of way issues associated with the segment.

The existing right-of-way corridor for 10th Street is 40 feet west and 40 feet east of the monument line according to Docket 214 Page 402, and has not been open and declared by MCDOT as a public roadway. The existing roadway appears to be all within the existing right-of-way corridor, except the horizontal curve at the main wash that shifts to the east outside the right-of-way (Photo 1). MCDOT will need to perform a boundary survey as verification.

PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	
Canals & Drainage	Yes
Power Lines & Cables	Yes
Pipelines, Sewer and Water	Yes
Private Structures	
Other	Describe:
None	
14. Please describe any utility conflicts that will need to be addressed.	Field observation for this roadway segment identified several wooden power poles on the east side of the roadway
Section 2 - Proposed Improvements	#REF!
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	Yes
Urban Road	No
Subdivision Street	No
Alley	No
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	Dust mitigation improvements include placing two 12 foot paved lanes with a pavement structural section consisting of a 2 inch lift of AC pavement (Marshall 1/2" Mix, High Traffic) with a thickened edge.
3. Please provide a simple diagram of a typical cross section, including widths, of the segment that shows the proposed improvement(s) and the after construction right of way limits, sidewalks and shoulders (if any), and the lanes of travel.	
4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.	
5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.	
6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	2 inch lift of AC pavement (Marshall 1/2" Mix, High Traffic) with a thickened edge.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	N/A
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	N/A

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).

Section 1 - Total Project Budget

1. Please attach a detailed cost estimate (OPTIONAL)	
Cost Estimate for the Project Including ALL Segments	Cost (Optional) Additional Notes
2. PE and Final Design	\$ 110,000
3. Right of way	\$ -
4. Utilities	\$ -
5. Construction	\$ 900,000
6. Contingency	\$ 180,000
7. Total Cost w/o ADOT Review Fee	\$ 1,190,000.00
8. ADOT Review Fee	\$ 23,800.00
9. Total Cost with ADOT Review Fee	\$ 1,213,800.00

Required ADOT review fee. The fee is calculated as \$20,000 or 2% of project cost, which ever is higher.

Summation of Cost Cells

Agency Programming

10. Please describe the programming of the project in the agency's own CIP/TIP.

Requested MAG Programming	Year (Choose One)	Local Funding Source	Local Cost	CMAQ COST	Total Cost
11. Design	2015	HURF	110,000	0	110,000
12. Right of way and Utilities	2014	HURF	0	0	0
13. Construction	2016	HURF	67,260	1,112,740	1,180,000
			177,260	1,112,740	1,290,000

PART D - SIGNATURE AND CHECKLIST

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

Signature: 

Name: John B. Hauskins, P.E.

Title: Director, Maricopa County Department of Transportation

Date: 9/19/2012

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 - Contact, Project Description and Site Visit Fields	Complete?
Contact Information, fields 1 – 5 are complete	<input type="checkbox"/>
Project Description, fields 6, 7, 9 and 10 are complete	<input type="checkbox"/>
Project Description, field 8 – project map is provided in the printed application. Please attach a PDF file in the electronic submittal.	<input type="checkbox"/>
Site Visit Information, fields 11a and 11b	<input type="checkbox"/>
Site Visit Information, fields 11c Pictures attached.	<input type="checkbox"/>
PART B - Segment Description and Proposed Improvements Fields	Complete?
The number of complete Part B Segments match the number of segments listed in Part A, Field 9.	<input type="checkbox"/>
Segment Description, Section 1	
Fields 1 - 2 are complete	<input type="checkbox"/>
Field 3 – segment alignment map is provided in the printed application. Please attach PDF file in the electronic submittal.	<input type="checkbox"/>
Field 4 attach PDF file in the electronic submittal.	<input type="checkbox"/>
Fields 5 – 14 are complete	<input type="checkbox"/>
Proposed Improvements, Section 2	
Fields 1 – 2 are complete	<input type="checkbox"/>
Field 3 attach PDF file in the electronic submittal.	<input type="checkbox"/>
Fields 4 – 6 REQUIRED for Road and Street Segments and are complete.	<input type="checkbox"/>
Fields 4 – 6 OPTIONAL for shoulder and alley segments, please check box if complete.	<input type="checkbox"/>
Fields 7 – 10 are complete	<input type="checkbox"/>
PART C - Total Project Schedule and Budget Including All Segment Fields	Complete?
Section 1 - Total Project Budget	
Fields 1- is OPTIONAL . Please attach a PDF file in the electronic submittal if a detailed cost estimate is provided with printed application	<input type="checkbox"/>
Fields 2 – 6 are complete	<input type="checkbox"/>
Field 7 is REQUIRED for non certified agencies, please check box if included and provided in the printed application.	<input type="checkbox"/>
Field 8 is OPTIONAL , please check box if included and provided in the printed application. Please attach PDF file in the electronic submittal.	<input type="checkbox"/>
Field 9 - total cost field is complete	<input type="checkbox"/>
Field 10 - Agency CIP programming is completed	<input type="checkbox"/>
Fields 11 – 13 Years are complete	<input type="checkbox"/>
Fields 11 – 13 Local Funding Sources are complete	<input type="checkbox"/>
Fields 11 – 13 Local Costs are complete	<input type="checkbox"/>
Fields 11 – 13 Total Costs are complete	<input type="checkbox"/>
Field 13 Federal Costs are complete	<input type="checkbox"/>
Section 2 - Project Schedule is OPTIONAL	
Fields 1 - 14 are OPTIONAL	<input type="checkbox"/>
PART D - Signature Page Fields	Complete?
Form is signed	<input type="checkbox"/>
Name, title and date fields are completed.	<input type="checkbox"/>

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 p.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:)

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)** 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 Wednesday, 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

PM-10 Paving Application from Maricopa County for 'Carefree Highway Area PM-10 Paving'

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.>

PART B2 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

This part of the form identifies the current characteristics and proposed improvements for each segment of the project. A separate Part B must be completed for each segment. e.g. If in field #9 of Part A, it was indicated that 5 segments were included in the project, 5 Part B's must be completed in the application. The additional Part Bs are separate tabs in this excel file noted as: Part_B2, Part_B3, etc.

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.

Section 1 - Segment Description	Segment 2
1. Segment Location - Include segment beginning and ending limits	Dove Valley Road, 12th Street to 14th Street
2. Length and Curb Miles	
a. Length (Miles) of the segment	0.25
b. Curb Miles: Miles of shoulders or curbs to be paved by direction (e.g. if discontinuous shoulder sections on both sides of the roadway are to be paved, enter the combined distance of shoulders to be paved).	0
3. Please provide a map/graphic/photo that clearly shows the segment alignment and features that cross into or abut the alignment such as: washes, canals, railroad crossings, and other crossing features that may affect the project.	Please attach map with transmittal
4. Please provide a simple diagram of a typical cross section, including widths, of the segment that shows the current right of way limits, sidewalks and shoulders (if any), and the lanes of travel.	
5. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	3.2
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	No formal geotechnical investigation was performed for this project. However, it was observed in the field that the current traveled roadway is well compacted and made up of gravelly sandy clay material.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	31
9. Please describe methodology used to calculate ADT	Calculated 10 trips per household

PART B2 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

10. 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. In the box to the right, please describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

There are no wash crossings within the project limits; therefore no "waters of the US" will be impacted.
 For this project it is anticipated that there will be less than one acre of ground disturbance. Therefore, a storm water pollution prevention plan will not need to be prepared. However if this project is grouped with other roadway projects and the cumulative area of disturbance exceeds one acre than a storm water pollution prevention plan will need to be prepared and an AZPDES notice of intent and notice of termination will also need to be prepared and submitted to the ADEQ by MCDOT and the contractor.
 The project is not located in an urbanized area of Maricopa County therefore requirements of the Maricopa County Municipal Separate Storm Sewer System (MS4) do not apply.
 According to the FEMA Map, the project is not within a 100-year floodplain; therefore, no impacts to floodplains are anticipated.
 The natural vegetation within the right-of-way corridor that may be impacted during construction consists of several species of bushes and shrubs.
 A preliminary investigation of the project area will be performed by MCDOT in order to identify if any cultural resources would be impacted during the construction of this project.
 MCDOT will review the project data and conduct additional research and evaluation for potential hazardous material and socio-economic impacts to determine and prepare any environmental clearance, impact statement, and/or required permits.

11. Current ROW: (Choose All that Apply and select Yes or No)
 Agency owns all ROW Needed
 ROW to be acquired
 Owners will donate ROW
 Condemnation may be required

Yes
 No
 No
 No

12. Please describe any right of way issues associated with the segment.

The existing right-of-way corridor for Dove Valley Road is 60 feet wide according to Maricopa County Recorders; however the roadway has not been open or declared by MCDOT as a public roadway. The existing roadway appears to be within the existing right-of-way corridor; however MCDOT will need to perform a boundary survey as verification.
 For this roadway segment, MCDOT will need to open and declare on the existing rightof-way corridor. It is anticipated that no additional right-of-way will need to be acquired if all improvements remain within the existing corridor.

13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)

Canals & Drainage
 Power Lines & Cables
 Pipelines, Sewer and Water
 Private Structures
 Other
 None

No
 Yes
 Yes
 No
 Describe:

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

Field observation for this roadway segment did not identify any utility conflicts that require relocation under this project. Once in design, MCDOT will review project plans to determine utility relocation and coordination needs, and prepare and process any necessary clearances.

Section 2 - Proposed Improvements

Segment 2

1. What is the type of paving project? (Choose all that Apply and Select Yes or No)

PART B2 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

Rural Road	Yes
Urban Road	No
Subdivision Street	No
Alley	No
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	<p>Dust mitigation improvements include placing two 12 foot paved lanes with a pavement structural section consisting of a 2 inch lift of AC pavement (Marshall ½" Mix, High Traffic) with a thickened edge.</p> <p>The proposed horizontal alignment will be along to the monument line. The 24-foot roadway will be located within the existing 60-foot right-of-way corridor. The construction centerline will begin at the west radius return of the 12th Street intersection and end at the east radius return of the 14th Street intersection.</p> <p>The proposed vertical profile will be designed to provide a minimum grade of 15% and a minimum sight distance of 125-feet for a design speed of 25 MPH. The proposed vertical alignment will also consider existing drainage by maintaining existing flow patterns.</p> <p>The typical cross section for Dove valley Road will be a one-way cross slope of 2% sloping from south to north.</p> <p>A concrete driveway connection will be constructed to match the existing concrete driveway at the R/W line.</p>
3. Please provide a simple diagram of a typical cross section, including widths, of the segment that shows the proposed improvement(s) and the after construction right of way limits, sidewalks and shoulders (if any), and the lanes of travel.	
4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.	
5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.	
6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	2 inch lift of AC pavement (Marshall ½" Mix, High Traffic) with a thickened edge.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	N/A
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	N/A



10th Street - Dove Valley Road to Paint Your Wagon Trail Carefree Highway Area



Maricopa County Public Works GIS Division September 2012

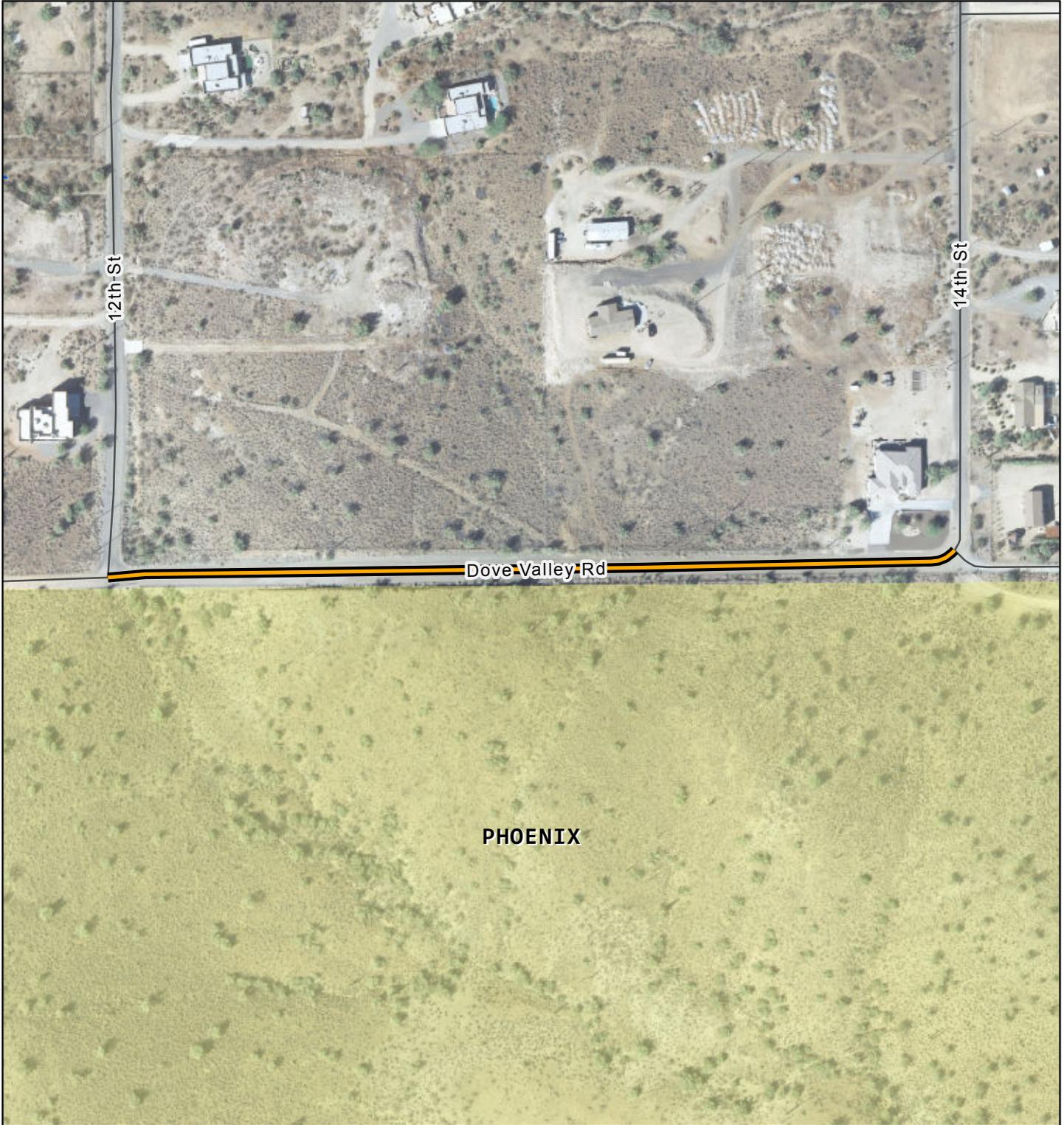
-  Road Segment
-  River





Dove Valley Road - 12th Street to 14th Street

Carefree Highway Area



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River



10th St - Dove Valley Rd to Paint Your Wagon Tr Photos



Figure 1 - Looking south onto 10th Street at the intersection of Paint Your Wagon Trail.

10th St - Dove Valley Rd to Paint Your Wagon Tr Photos



Figure 2 - Looking north at the curve of westbound Dove Valley Road to northbound 10th Street.

10th St - Dove Valley Rd to Paint Your Wagon Tr Photos



Figure 3 - Looking northeast at the westbound Dove Valley Road to northbound 10th Street curve.

10th St - Dove Valley Rd to Paint Your Wagon Tr Photos



Figure 4 - Looking south onto 10th Street, approaching the wash crossing.

10th St - Dove Valley Rd to Paint Your Wagon Tr Photos

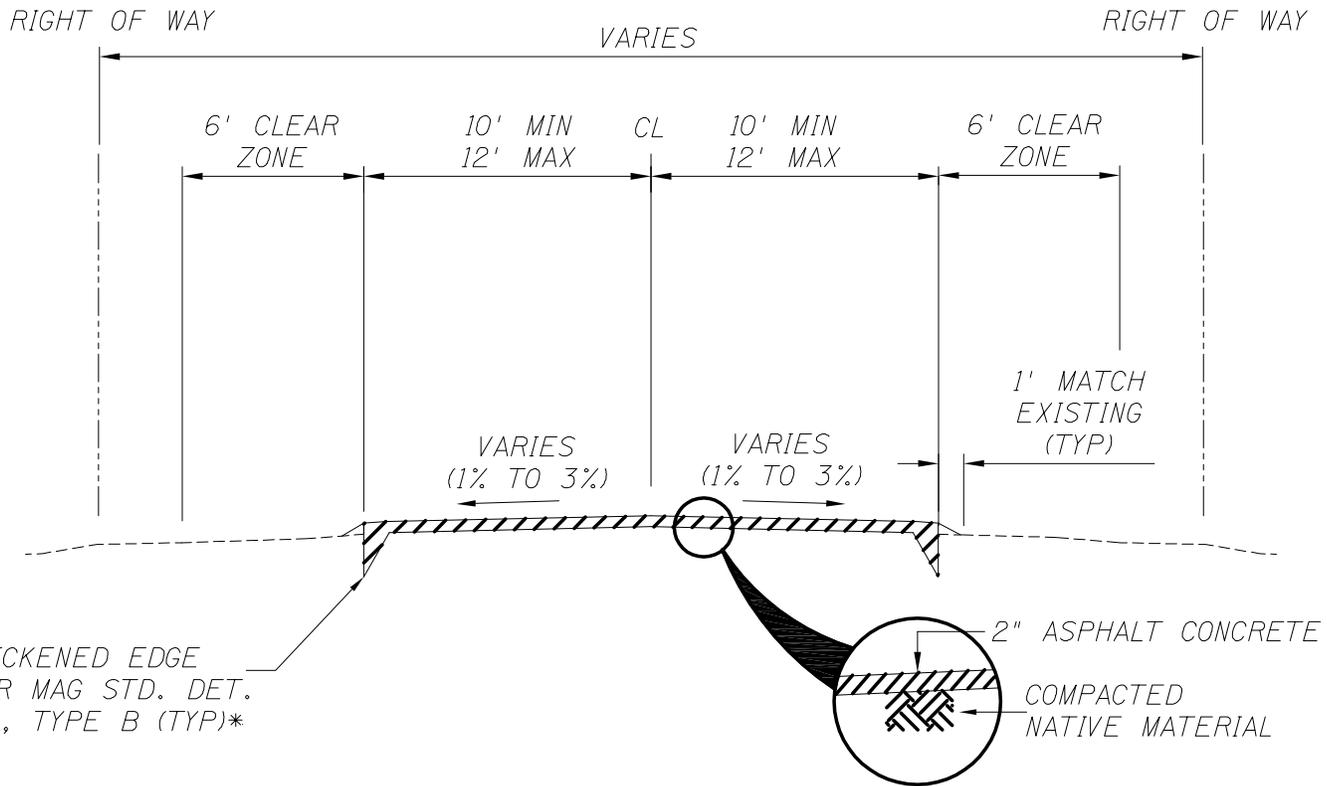


Figure 5 - Looking north onto 10th Street before the wash crossing.

Dove Valley Rd - 12th St to 14th St Photos



Figure 1 - Looking east onto Dove Valley Road towards 12th and 14th Street.

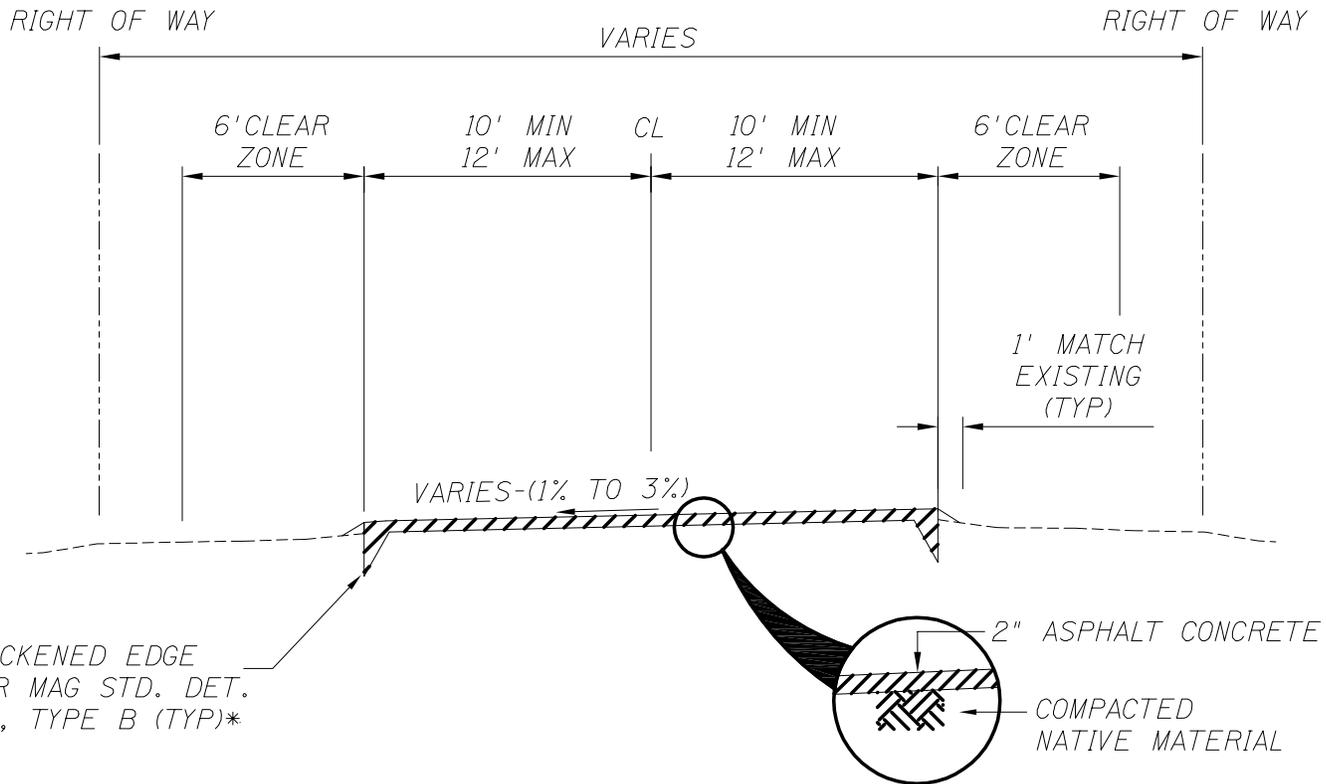


TYPICAL CROSS SECTION-CROWNED

* UNLESS OTHERWISE DIRECTED BY THE ENGINEER

LOW VOLUME ROAD EXHIBIT		JOB NUMBER 193141.401
JACOBS CARTER BURGESS		101 N. FIRST AVE., #3100 PHOENIX, AZ 85003 TEL: 602.253.1200 FAX: 602.253.1202

DATE: JAN. 2008
DRAWING:



TYPICAL CROSS SECTION-ONE WAY

* UNLESS OTHERWISE DIRECTED BY THE ENGINEER

LOW VOLUME ROAD EXHIBIT	JOB NUMBER 193141.401
	JACOBS CARTER BURGESS 101 N. FIRST AVE., #3100 PHOENIX, AZ 85003 TEL: 602.253.1200 FAX: 602.253.1202

DATE: JAN. 2008
DRAWING: