

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 Kenned 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.	New River Area PM-10 Paving
7. Please provide a general description of the project.	Maricopa County Department of Transportation has identified seven road segments in the New River Area 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).	7
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	7th Street from Linda Lane to Honda Bow Road
2. Length and Curb Miles	
a. Length (Miles) of the segment	0.5
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?	7th Street between Linda Lane and Honda Bow Road is a north-south disturbed dirt road that provides access to residences and other local roads. The roadway segment from Linda Lane to the wash crossing, approximately 1,000-feet in length, varies significantly from the north segment. The south segment is narrow and curvilinear, with side slopes closed to 1:1. The disturbed area is approximately 16-feet wide and the travelled area is approximately 12-feet wide. The north segment is wider and tangent with a disturbed area of approximately 24-feet wide and a travelled width of approximately 18-feet wide. The roadway terrain is rolling with loose heaped material on the south segment, throughout the wash crossing and 200-feet near the intersection with Honda Bow Road. Courtesy grading over time has resulted in the roadway being approximately one foot lower than the adjacent terrain.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	MCDOT supplied the existing ADT of 192 vehicles per day for 29th Avenue from Joy Ranch Road to Irvine Road. 29th Avenue is classified as a Rural Local Road, Joy Ranch Road is classified as a Minor Collector, and Irvine Road is classified as a Rural Local Road according to Maricopa County Major Streets and Routes Plan Street Classification Manual dated September 2004.
8. Current Average Traffic (ADT)	252

PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>9. Please describe methodology used to calculate ADT</p>	<p>Standard tube count.</p>
<p>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.</p>	<p>characteristics consisting of sandy bottom, heavy vegetation and high water marks. Crossing of 404 Washes should qualify under a Nationwide Permit 14 from the Army Corps of Engineers. If the crossing will disturb less than 0.10 acres it is considered to be non-notifying. If the crossing is greater than 0.10 acres but less than 0.5 acres it will be necessary to process a Nationwide Permit. If the disturbance is greater than 0.5 acres it is possible that it would require an Individual Permit. This project will likely disturb less than 0.10 acres. Major clearing, grubbing and cut ditch regrading will be required on</p>
<p>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</p>	<p>No Yes No Yes</p>
<p>12. Please describe any right of way issues associated with the segment.</p>	<p>The existing right-of-way is 40-feet wide throughout this segment except for a parcel located 800-feet north of Linda Lane. Right-of-way at that parcel is 55-feet wide. 7th Street is a section line roadway and the minimum required right-of-way per the Maricopa County Design Standards for rural local section line roadways is 65-foot half-width. Additional right-of-way may be necessary for this segment to comply with the MCDOT's design standards and to accommodate horizontal and vertical realignments. If no additional right-of-way will be acquired, a right-of-way design exception will be necessary</p>

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	No
Private Structures	No
Other	
None	

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

This segment of 7th Street has APS power poles on the west side of the roadway at the right-of-way line throughout the project length. Due to vertical realignment, some power poles will need to be relocated.

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:

The first one thousand feet north of Linda Lane will not be paved under this project as Maricopa County does not maintain this segment of the road. Roadway improvements include placing two 10-foot lanes with AC pavement and thickened edge following the survey centerline from the wash crossing to Honda Bow Road. Clearing and grubbing, and cut ditch grading will be necessary on the east side of the road. The proposed paved road will follow the existing rolling terrain to minimize impact on existing roadway; however, vertical realignment will be necessary adjacent north to the wash crossing as it exceeds MCDOT's allowable design exception deviation standards.

The proposed roadway will need to be shifted west in order to be constructed within the County's available right-of-way.

The cross section will vary between a one-way section at the wash crossings and a two-way crowned section with cut ditches to match existing conditions. Existing concrete driveway located approximately 1,200-feet south of Honda Bow Road will be connected to new pavement.

Dust proofing measures will include clearing and grubbing, grading, watering, compaction and a 2-inch AC pavement section. Match existing cross section as close as possible to eliminate the need for imported material. One-way cross sections will be used at the wash crossing. Roadside drainage ditch should be constructed to maintain existing flow patterns.

At a minimum the ditches should be 8" deep to carry roadway flows. If the project proceeds, a more detailed drainage analysis will be needed.

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.

PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.</p>	
<p>6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.</p>	
<p>7. Please describe the type of paving for the segment.</p>	<p>2 inch lift of AC pavement (Marshall ½" Mix, High Traffic) with a thickened edge.</p>
<p>8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)</p> <p>Sidewalks</p> <p>Fencing</p> <p>Lighting</p> <p>Curb & Gutter</p> <p>Bicycle path or lane</p> <p>Other</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe:</p>
<p>9. Please describe the non paving improvements to be included in the segment.</p>	<p>N/A</p>
<p>10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.</p>	<p align="right">0</p>

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	\$ 220,000	
3. Right of way	\$ 100,000	
4. Utilities	\$ 125,000	
5. Construction	\$ 1,840,000	
6. Contingency	\$ 360,000	
7. Total Cost w/o ADOT Review Fee	\$ 2,645,000.00	
8. ADOT Review Fee	\$ 52,900.00	Required ADOT review fee. The fee is calculated as \$20,000 or 2% of project cost, which ever is higher.
9. Total Cost with ADOT Review Fee	\$ 2,697,900.00	Summation of Cost Cells

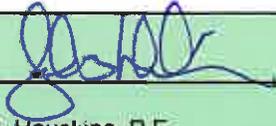
Agency Programming

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	2014	HURF	220,000	0	220,000
12. Right of way and Utilities	2013	HURF	225,000	0	225,000
13. Construction	2015	HURF	125,400	2,074,600	2,200,000
			570,400	2,074,600	2,645,000

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: 9/13/2012

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

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

To submit two printed, signed, and complete applications to MAG, the applicant can mail **(at MAG offices by Wednesday September 19, 2012 at 10:00** 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 'New River 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	3rd Street from Linda Lane to Honda Bow Road
2. Length and Curb Miles	
a. Length (Miles) of the segment	1
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)	4.2
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	3rd Street between Linda Lane and Honda Bow Road is a north-south disturbed dirt road that provides access to residences and other local roads. The disturbed area varies from 18-feet wide on the south end near Linda Lane to 24-feet wide on the north end near Honda Bow Road. The roadway is relatively narrow; therefore, the typical travelled road width is similar to the disturbed area, approximately 16-feet on the south end and approximately 20-feet on the north end. The roadway terrain is rolling with loose heaped material near Linda Lane and near a wash crossing located approximately one thousand feet north of Linda Lane. Courtesy grading over time has resulted in the roadway being approximately one foot lower than the adjacent properties.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	25
9. Please describe methodology used to calculate ADT	Standard tube count.

PART B2 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>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.</p>	<p>characteristics consisting of sandy bottom, heavy vegetation and high water marks. Crossing of 404 Washes should qualify under a Nationwide Permit 14 from the Army Corps of Engineers. If the crossing will disturb less than 0.10 acres it is considered to be non-notifying. If the crossing is greater than 0.10 acres but less than 0.5 acres it will be necessary to process a Nationwide Permit. If the disturbance is greater than 0.5 acres it is possible that it would require an Individual Permit. This project will likely disturb less than 0.10 acres. Major clearing, grubbing and cut ditch regrading will be required on new horizontal alignment including</p>
<p>11. Current ROW: (Choose All that Apply and select Yes or No)</p> <p style="padding-left: 20px;">Agency owns all ROW Needed</p> <p style="padding-left: 20px;">ROW to be acquired</p> <p style="padding-left: 20px;">Owners will donate ROW</p> <p style="padding-left: 20px;">Condemnation may be required</p>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p>
<p>12. Please describe any right of way issues associated with the segment.</p>	<p>The existing right-of-way is 60-feet wide from Linda Lane to Honda Bow Road. The minimum required right-of-way per the Maricopa County Design Standards for rural local roadway is 25-foot half-width. No additional right-of-way is required.</p>
<p>13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)</p> <p style="padding-left: 20px;">Canals & Drainage</p> <p style="padding-left: 20px;">Power Lines & Cables</p> <p style="padding-left: 20px;">Pipelines, Sewer and Water</p> <p style="padding-left: 20px;">Private Structures</p> <p style="padding-left: 20px;">Other</p> <p style="padding-left: 20px;">None</p>	<p>Yes</p> <p>Describe:</p> <p>Yes</p>
<p>14. Please describe any utility conflicts that will need to be addressed.</p>	<p>This segment of 3rd Street has APS power poles on the west side of the roadway at the right-of-way line. Due to vertical realignment, some power poles will need to be relocated.</p>
Section 2 - Proposed Improvements	Segment 2
<p>1. What is the type of paving project? (Choose all that Apply and Select Yes or No)</p> <p style="padding-left: 20px;">Rural Road</p> <p style="padding-left: 20px;">Urban Road</p> <p style="padding-left: 20px;">Subdivision Street</p> <p style="padding-left: 20px;">Alley</p> <p style="padding-left: 20px;">Shoulders</p> <p style="padding-left: 20px;">Other</p>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe:</p>
<p>2. Please describe the work to be performed on the segment:</p>	<p>and thickened edge following the survey centerline. Clearing, grubbing and cut ditch regrading will be necessary on the east side of the road. The proposed paved road will follow the existing rolling terrain to minimize impact on existing roadway; however, vertical realignment will be necessary adjacent north to the wash crossing</p>
<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.</p>	
<p>4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.</p>	
<p>5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.</p>	

PART B2 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.</p>	
<p>7. Please describe the type of paving for the segment.</p>	<p>2-inch AC pavement with thickened edge</p>
<p>8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)</p> <p>Sidewalks</p> <p>Fencing</p> <p>Lighting</p> <p>Curb & Gutter</p> <p>Bicycle path or lane</p> <p>Other</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe</p>
<p>9. Please describe the non paving improvements to be included in the segment.</p>	<p>N/A</p>
<p>10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.</p>	<p>0</p>

PART B3 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

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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 3
1. Segment Location - Include segment beginning and ending limits	Central Avenue, Begin of Maintenance to Honda Bow Road
2. Length and Curb Miles	
a. Length (Miles) of the segment	0.5
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)	4.4
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	The current traveled roadway is well compacted and made up of a gravelly sandy clay material.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	23
9. Please describe methodology used to calculate ADT	Standard tube count.
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.	<p>drain from the northeast to the southwest. 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 nonnotifying nationwide permit (NWP) #14 under Section 404 of the Clean Water Act.</p> <p>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</p>
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	No
ROW to be acquired	Yes
Owners will donate ROW	No
Condemnation may be required	Yes

PART B3 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

12. Please describe any right of way issues associated with the segment.	Avenue is zero feet west of the monument line and 30 feet east of the monument line according to Maricopa County Records Docket 1910 Page 262. Therefore, approximately 41,000 SF of new right-of-way will need to be acquired from the state land west of the monument line. The new right-of-way will be offset 20 feet west of						
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	<table border="1"> <tr><td>Yes</td></tr> <tr><td> </td></tr> <tr><td>Describe:</td></tr> <tr><td> </td></tr> </table>	Yes		Describe:			
Yes							
Describe:							
14. Please describe any utility conflicts that will need to be addressed.	have utilities in the area: -APS - Electric -Qwest - Coaxial, Fiber Field observations for this roadway segment identified a power pole and a power tower on the west side of the corridor. On the east						
Section 2 - Proposed Improvements	Segment 3						
1. What is the type of paving project? (Choose all that Apply and Select Yes or No) Rural Road Urban Road Subdivision Street Alley Shoulders Other	<table border="1"> <tr><td>Yes</td></tr> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>Describe:</td></tr> </table>	Yes	No	No	No	No	Describe:
Yes							
No							
No							
No							
No							
Describe:							
2. Please describe the work to be performed on the segment:	foot lanes consisting of a 2 inch thick asphaltic concrete (AC) pavement structural section. The proposed horizontal alignment will realign the roadway to be offset 5 feet east of the monument line and centered within the 50 foot wide right-of-way corridor. The horizontal alignment will begin at the BOM and extend north to						
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 thick asphaltic concrete (AC) pavement						
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No) Sidewalks Fencing Lighting Curb & Gutter Bicycle path or lane Other	<table border="1"> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>No</td></tr> <tr><td>Describe:</td></tr> </table>	No	No	No	No	No	Describe:
No							
No							
No							
No							
No							
Describe:							

PART B3 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

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.	0

PART B4 - 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 4
1. Segment Location - Include segment beginning and ending limits	3rd Avenue from Honda Bow Road to Circle Mountain Road
2. Length and Curb Miles	
a. Length (Miles) of the segment	1
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)	4.9
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	The current traveled roadway is well compacted and made up of a gravelly sandy clay material.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	244
9. Please describe methodology used to calculate ADT	Standard tube count.
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.	The widening of the roadway prism into the shoulder will facilitate an Environmental Assessment prior to construction. Field observations and research show the project is within active floodplain/floodway it will be necessary to obtain a permit from the Corp of Engineers in accordance with Section 404 of the Clean Water Act. MCDOT Environmental Group will review the project data, determine and prepare any Environmental Clearance or Impact Statement as required.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	No
ROW to be acquired	Yes
Owners will donate ROW	No
Condemnation may be required	Yes

PART B4 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>12. Please describe any right of way issues associated with the segment.</p>	<p>There is 31.25 feet of existing right-of-way from Honda Bow extending 1300-feet north on the west side of the section line. The east side in this segment is State Land Trust. The existing roadway prism is located outside MCDOT right-of-way on State land. The remaining right-of-way is 31.25 feet east and west of the section line.</p>
<p>13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)</p> <ul style="list-style-type: none"> Canals & Drainage Power Lines & Cables Pipelines, Sewer and Water Private Structures Other None 	<p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Describe:</p>
<p>14. Please describe any utility conflicts that will need to be addressed.</p>	<p>There are several washes including three major washes, consideration should be given to constructing concrete low water surface fords at the significant crossing in order to reduce maintenance.</p> <p>A drainage analysis should be prepared in order to adequately address historic flows and issues as part of the construction documents. Roadway cross section slopes will be built to match existing drainage courses and not impede historic drainage patterns. There are several power poles located immediately adjacent to the east side of the edge of road. Overhead power lines including high voltage lines cross the road at various places.</p>
<p>Section 2 - Proposed Improvements</p>	<p>Segment 4</p>
<p>1. What is the type of paving project? (Choose all that Apply and Select Yes or No)</p> <ul style="list-style-type: none"> Rural Road Urban Road Subdivision Street Alley Shoulders Other 	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe:</p>
<p>2. Please describe the work to be performed on the segment:</p>	<p>Improvements include placing 24-foot, one way crowned section AC pavement with thickened edge on the existing graded roadway to limit dust. Road should be sloped from east to west. Reconstruct the roadway cut ditches and residential driveways as necessary. Dust proofing measures will include grading, watering and compaction and a 2-inch AC pavement section. Match existing cross section as close as possible to eliminate the need for imported material.</p>
<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.</p>	
<p>4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.</p>	
<p>5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.</p>	
<p>6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.</p>	

PART B4 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

7. Please describe the type of paving for the segment.	2-inch AC pavement
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No) Sidewalks Fencing Lighting Curb & Gutter Bicycle path or lane Other	No No No No No Describe
9. Please describe the non paving improvements to be included in the segment.	There are several washes including three major washes, consideration should be given to constructing concrete low water surface fords at the significant crossing in order to reduce maintenance. A drainage analysis should be prepared in order to adequately
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	0

PART B5 - 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 5
1. Segment Location - Include segment beginning and ending limits	Cavalry Road from 7th Avenue to 3rd Avenue
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)	5.3
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	The roadway grade is fairly flat with sandy soil throughout the project length with loose heaped material on the side. The
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	52
9. Please describe methodology used to calculate ADT	Standard tube count.

PART B5 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>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.</p>	<p>Environmental impacts should be considered for washes with 404 characteristics consisting of sandy bottom, heavy vegetation and high water marks. Crossing of 404 Washes should qualify under a Nationwide Permit 14 from the Army Corps of Engineers. If the crossing will disturb less than 0.10 acres it is considered to be non-notifying. If the crossing is greater than 0.10 acres but less than 0.5 acres it will be necessary to process a Nationwide Permit. If the disturbance is greater than 0.5 acres it is possible that it would require an Individual Permit. Additional clearing and grubbing will be required on new horizontal alignment including removal of native vegetation. MCDOT Environmental Group will review the project data, determine and prepare any Environmental Clearance, Impact Statement and Nationwide Permit 14 from the Army Corps of Engineer as required.</p>
<p>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</p>	<p>Yes No</p>
<p>12. Please describe any right of way issues associated with the segment.</p>	<p>The existing right-of-way for this segment is 62.5-foot wide. Cavalry Road is a mid-section line roadway and the minimum required right-of-way per the Maricopa County Design Standards for rural local section line roadways is 40-foot half-width. A right-of-way design exception will be required.</p>
<p>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</p>	<p>No Yes No No Describe:</p>
<p>14. Please describe any utility conflicts that will need to be addressed.</p>	<p>This segment has APS power poles on the south side of the road throughout the entire segment and are located near the right-of-way edge. There is also one large steel power pole on the north side of the roadway approximately 550-foot east of 7th Avenue.</p>
<p>Section 2 - Proposed Improvements</p>	<p>Segment 5</p>
<p>1. What is the type of paving project? (Choose all that Apply and Select Yes or No) Rural Road Urban Road Subdivision Street Alley Shoulders Other</p>	<p>Yes No No No No Describe:</p>

PART B5 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>2. Please describe the work to be performed on the segment:</p>	<p>Improvements include placing two 12-foot lanes with AC pavement and thickened edge on the existing graded roadway to limit dust. The cross section will be a one-way crowned street sloped from north to south to match existing conditions. Reconstruct the roadway cut ditches as necessary. Dirt driveways shall be braded within right-of-way to match proposed edge of pavement.</p> <p>The north half of the roadway will require clearing and grubbing as the survey centerline falls near the north edge of existing dirt road. Dust proofing measures will include grading, watering and compaction and a 2-inch AC pavement section. Match existing cross section and profile as close as possible to eliminate the need for imported material.</p>
<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.</p>	
<p>4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.</p>	
<p>5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.</p>	
<p>6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.</p>	
<p>7. Please describe the type of paving for the segment.</p>	<p>2-inch AC pavement</p>
<p>8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)</p> <p>Sidewalks</p> <p>Fencing</p> <p>Lighting</p> <p>Curb & Gutter</p> <p>Bicycle path or lane</p> <p>Other</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe:</p>
<p>9. Please describe the non paving improvements to be included in the segment.</p>	<p>N/A</p>
<p>10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.</p>	<p align="right">0</p>

PART B6 - 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 6
1. Segment Location - Include segment beginning and ending limits	7th Avenue from Honda Row Road to Leann Road
2. Length and Curb Miles	
a. Length (Miles) of the segment	0.62
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)	5.1
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	The roadway grade is fairly flat with sandy soil and loose gravel especially near Leann Road.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	71
9. Please describe methodology used to calculate ADT	Standard tube count.
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.	Environmental impacts should be considered for washes with 404 characteristics consisting of sandy bottom, heavy vegetation and high water marks. Crossing of 404 Washes should qualify under a Nationwide Permit 14 from the Army Corps of Engineers. If the crossing will disturb less than 0.10 acres it is considered to be non-notifying. If the crossing is greater than 0.10 acres but less than 0.5 acres it will be necessary to process a Nationwide Permit. If the disturbance is greater than 0.5 acres it is possible that it would require an Individual Permit. This project will likely disturb less than 0.10 acres. MCDOT Environmental Group will review the project data, determine and prepare any Environmental Clearance and Impact Statement as required.
11. Current ROW: (Choose All that Apply and select Yes or No)	

PART B6 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	The existing right-of-way for this segment is 80-foot wide. 7th Avenue is a section line roadway and the minimum required right-of-way per the Maricopa County Design Standards for rural local section line roadways is 65-foot half-width. A right-of-way design exception will be necessary.
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	
Canals & Drainage	No
Power Lines & Cables	Yes
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	
14. Please describe any utility conflicts that will need to be addressed.	This segment has APS power poles on the west side of the road throughout the entire segment and are located at the right-of-way edge. Qwest telecommunication risers were found adjacent to the power poles. One street light pole was found on the east side of the road near the north end of the project; however, light pole is inside private property.
Section 2 - Proposed Improvements	Segment 6
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:	Improvements include placing two 12-foot lanes with AC pavement and thickened edge on the existing graded roadway to limit dust. The cross section will be a two way crowned section. Reconstruct roadway cut ditches as necessary. Dirt driveways shall be graded within right-of-way to match proposed edge of pavement. Existing concrete and pavement driveways will be connected to new pavement. Dust proofing measures will include grading, watering and compaction and a 2-inch AC pavement section. Match existing cross section and profile as close as possible to eliminate the need for imported material.
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.	

PART B6 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

7. Please describe the type of paving for the segment.	2-inch AC pavement
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	Yes
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.	0

PART B7 - 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	#REF!
1. Segment Location - Include segment beginning and ending limits	11th Avenue from Honda Bow Road to 13th Avenue
2. Length and Curb Miles	
a. Length (Miles) of the segment	0.5
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)	5.3
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	The roadway terrain is rolling with fine compacted soil throughout the project length. Loose heaped material was found on the north end of the segment.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Local
8. Current Average Traffic (ADT)	81
9. Please describe methodology used to calculate ADT	Standard tube count.

PART B7 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

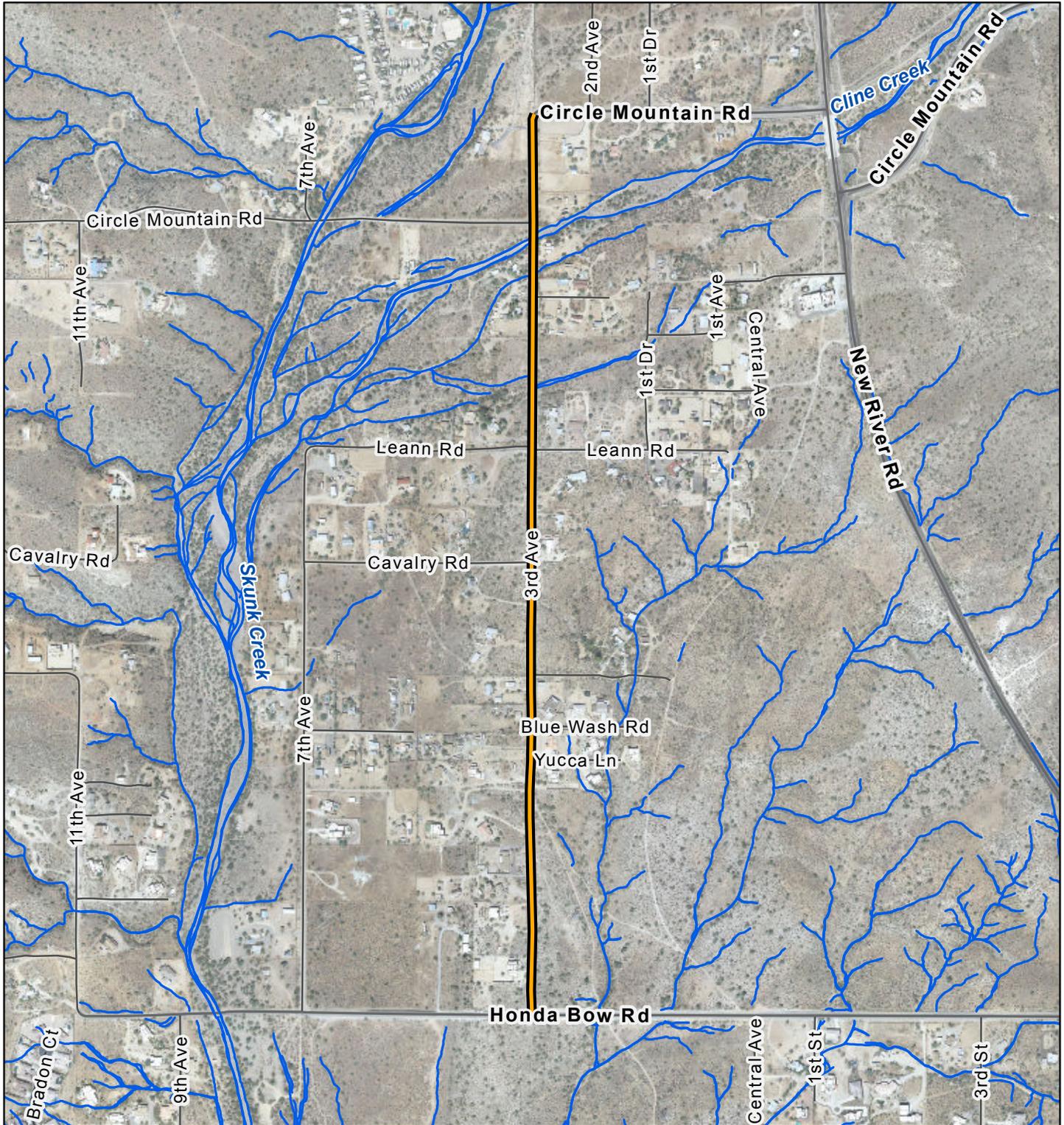
<p>10. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete. 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.</p>	<p>Environmental impacts should be considered for Wash with 404 characteristics consisting of sandy bottom, heavy vegetation and high water marks. Crossing of 404 Washes should qualify under a Nationwide Permit 14 from the Army Corps of Engineers. If the crossing will disturb less than 0.10 acres it is considered to be non-notifying. If the crossing is greater than 0.10 acres but less than 0.5 acres it will be necessary to process a Nationwide Permit. If the disturbance is greater than 0.5 acres it is possible that it would require an Individual Permit. This project will likely disturb less than 0.50 acres.</p> <p>Major clearing, grubbing and cut ditch regrading will be required on new horizontal alignment including removal of native vegetation. MCDOT Environmental Group will review the project data, determine and prepare any Environmental Clearance, Impact Statement and Nationwide Permit 14 from the Army Corps of Engineer as required.</p>
<p>11. Current ROW: (Choose All that Apply and select Yes or No)</p> <p>Agency owns all ROW Needed</p> <p>ROW to be acquired</p> <p>Owners will donate ROW</p> <p>Condemnation may be required</p>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p>
<p>12. Please describe any right of way issues associated with the segment.</p>	<p>The existing right-of-way for this segment is 62.5-feet wide. The minimum required right-of-way per the Maricopa County Design Standards for rural local roadways is 25-feet halfwidth. No additional right-of-way will be required.</p>
<p>13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)</p> <p>Canals & Drainage</p> <p>Power Lines & Cables</p> <p>Pipelines, Sewer and Water</p> <p>Private Structures</p> <p>Other</p> <p>None</p>	<p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Describe:</p>
<p>14. Please describe any utility conflicts that will need to be addressed.</p>	<p>This segment has APS power poles on the east side of the road from Honda Bow Road to Calvary Road. There are also power poles on both sides of the road from Calvary Road to 13th Avenue.</p>
<p>Section 2 - Proposed Improvements</p>	<p align="center">#REF!</p>
<p>1. What is the type of paving project? (Choose all that Apply and Select Yes or No)</p> <p>Rural Road</p> <p>Urban Road</p> <p>Subdivision Street</p> <p>Alley</p> <p>Shoulders</p> <p>Other</p>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe:</p>

PART B7 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<p>2. Please describe the work to be performed on the segment:</p>	<p>Improvements include placing two 10-foot lanes with AC pavement and thickened edge generally following the survey centerline from Honda Bow to approximately 1300-feet north, it will shift east to match the existing roadway alignment to minimize cut slopes to the existing right-of-way. On the east-west segment the roadway will be realigned to follow the survey centerline. Clearing and grubbing, cut ditch grading will be necessary. The proposed paved road will follow the existing rolling terrain to minimize impact on existing terrain and vegetation.</p> <p>The cross section will be a one way crowned section matching existing ground. Reconstruct the roadway cut as necessary. Dirt driveways shall be braded within right-of-way to match proposed edge of pavement.</p> <p>Special consideration to be taken for horizontal sight distances at the curves with Honda Bow Road and Calvary Road. Vertical sight distance also needs to be considered for the steep hill north of culvert crossing. Dust proofing measures will include grading, watering, compaction and a 2-inch AC pavement section. Match existing cross section and profile as close as possible to eliminate the need for imported material.</p>
<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.</p>	
<p>4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.</p>	
<p>5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.</p>	
<p>6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.</p>	
<p>7. Please describe the type of paving for the segment.</p>	<p>2-inch AC pavement</p>
<p>8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)</p> <p>Sidewalks</p> <p>Fencing</p> <p>Lighting</p> <p>Curb & Gutter</p> <p>Bicycle path or lane</p> <p>Other</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Describe</p>
<p>9. Please describe the non paving improvements to be included in the segment.</p>	<p>In order to minimize impact to existing culvert and headwalls it will be necessary to install retaining walls and guardrail due to steep vertical drop. In order to accommodate guardrail on the east side and allow driveway access, it will be necessary to install a pipe culvert under the driveway.</p>
<p>10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.</p>	<p align="right">0</p>



3rd Avenue - Honda Bow Road to Circle Mountain Road New River Area



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River

925 462.5 0

925 Feet





3rd Street - Linda Lane to Honda Bow Road

New River Area



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River





7th Avenue - Honda Bow Road to Leann Road

New River Area



Maricopa County Public Works GIS Division September 2012

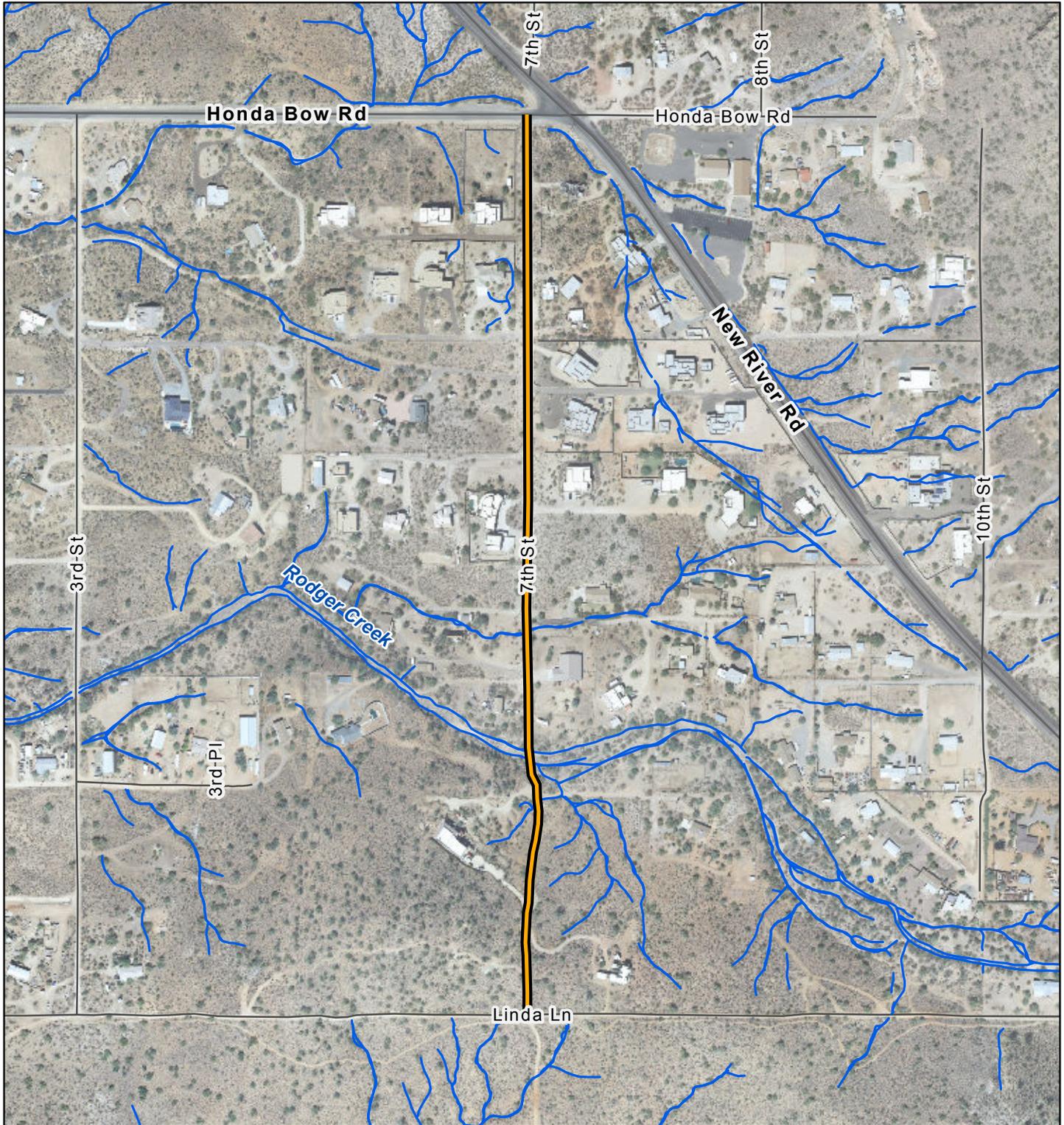
-  Road Segment
-  River





7th Street - Linda Lane to Honda Bow Road

New River Area



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River





11th Avenue - Honda Bow Road to 13th Avenue

New River Area



Maricopa County Public Works GIS Division September 2012

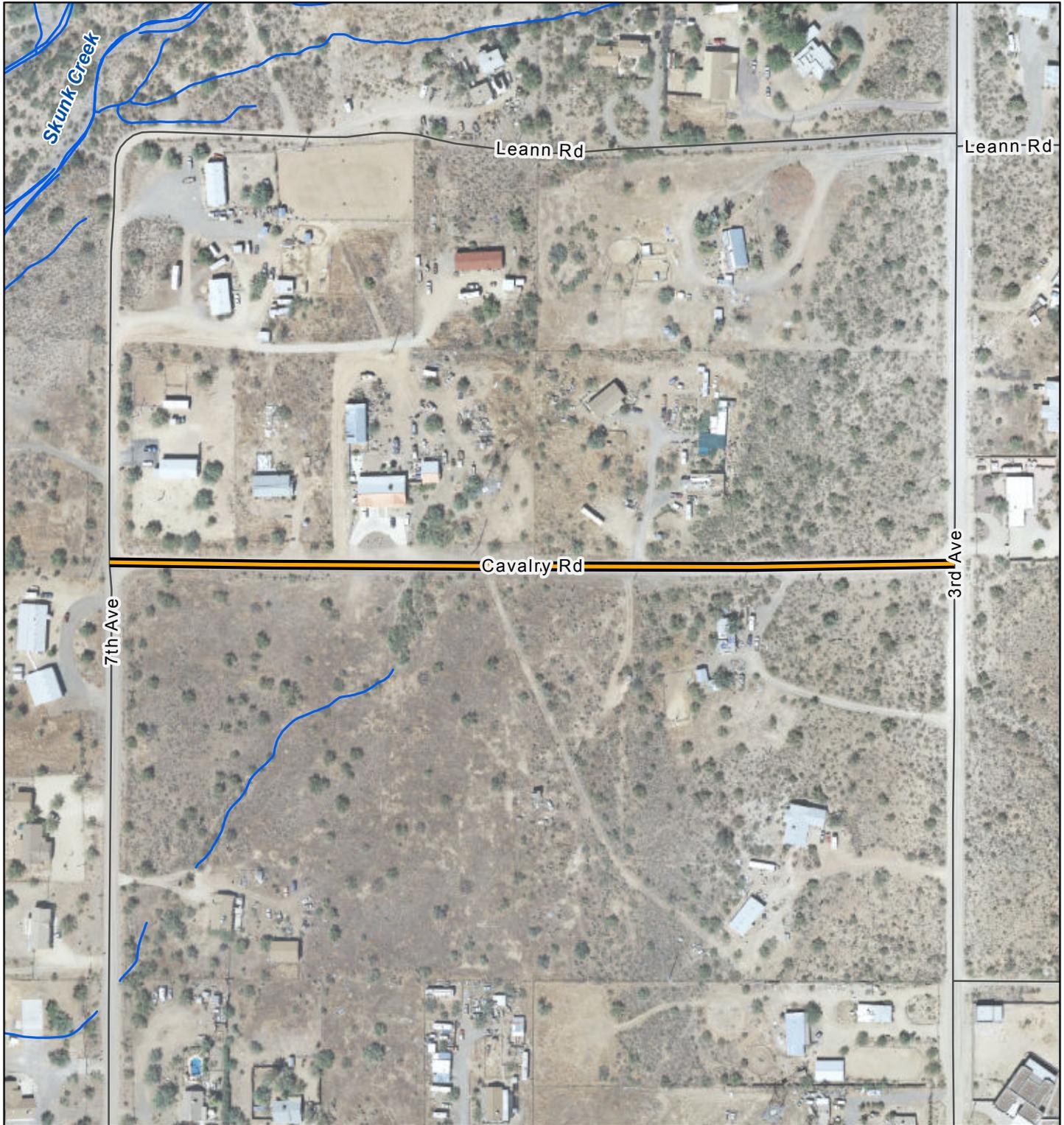
-  Road Segment
-  River





Cavalry Road - 7th Avenue to 3rd Avenue

New River Area



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River





Central Avenue - Begin of Maintenance to Honda Bow Road

New River Area



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River



3rd Ave - Honda Bow Rd to Circle Mountain Rd Photos



Figure 1 - Looking south at the west bound Circle Mountain Road to southbound 3rd Avenue curve.

3rd Ave - Honda Bow Rd to Circle Mountain Rd Photos



Figure 2 - Looking north at the intersection of 3rd Avenue and Honda Bow Road.

3rd Ave - Honda Bow Rd to Circle Mountain Rd Photos



Figure 3 - Looking north onto 3rd Avenue towards the westbound Circle Mountain Road curve.

3rd Ave - Honda Bow Rd to Circle Mountain Rd Photos



Figure 4 - Looking south at the T-intersection of 3rd Avenue and Circle Mountain Road.

3rd Ave - Honda Bow Rd to Circle Mountain Rd Photos



Figure 5 - Looking north at the T-intersection of 3rd Avenue and Circle Mountain Road.

3rd Ave - Honda Bow Rd to Circle Mountain Rd Photos



Figure 6 - Looking south at the west bound Circle Mountain Road to southbound 3rd Avenue curve.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 1 - Looking south at the intersection of 3rd Street and Honda Bow Road.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 2 - Looking south on 3rd Street before approaching the hill.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 3 - Looking south on 3rd Street from the apex of the hill towards Linda Lane.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 4 - Looking north on 3rd Street before the hill.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 5 - Looking south at the intersection of 3rd Street and Linda Lane.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 6 - Looking east at the intersection of Linda Lane and 3rd Street.

3rd St - Linda Ln to Honda Bow Rd Photos



Figure 7 - Looking north at the intersection of 3rd Street and Linda Lane.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 1 - Looking south onto 7th Avenue just south of Leann Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 2 - Looking south at the intersection of 7th Avenue and Calvary Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 3 - Looking south onto 7th Avenue just south of Calvary Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 4 - Looking north at the intersection of 7th Avenue and Calvary Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 5 - Looking north at the intersection of 7th Avenue and Honda Bow Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 1 - Looking south onto 7th Avenue just south of Leann Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 2 - Looking south at the intersection of 7th Avenue and Calvary Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 3 - Looking south onto 7th Avenue just south of Calvary Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 4 - Looking north at the intersection of 7th Avenue and Calvary Road.

7th Ave - Honda Bow Rd to Leann Rd Photos



Figure 5 - Looking north at the intersection of 7th Avenue and Honda Bow Road.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 1 - Looking south at the intersection of 7th Street and Honda Bow Road.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 2 - Looking south onto 7th Street approaching the hill.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 3 - Looking south onto 7th Street at the apex of the hill.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 4 - Looking south onto 7th Street approaching the meandering of the road.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 5 - Looking south onto 7th Street at the meandering of the road.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 6 - Looking north onto 7th Street approaching the meandering of the road.

7th St - Linda Ln to Honda Bow Rd Photos



Figure 7 - Looking south onto 7th Street towards Linda Lane just south of the meandering or the road.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 1 - Looking north, approaching the curve from west bound Honda Bow Road to north bound 11th Avenue.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 2 - Looking north from the west bound Honda Bow Road and north bound 11th Avenue curve.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 3 - Looking north onto 11th Avenue approaching the north to west bound curve of 11th Avenue towards 13th Avenue.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 4 - Looking north at the northbound to westbound curve of 11th Avenue.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 5 - Looking west at the northbound to westbound curve of 11th Avenue towards 13th Avenue.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 6 - Looking south at the north to west bound curve of 11th Avenue.

11th Ave - Honda Bow Rd to 13th Ave Photos



Figure 7 - Looking southwest at the 11th Avenue north to westbound curve.

Cavalry Rd - 7th Ave to 3rd Ave Photos



Figure 1 - Looking east towards Calvary Road towards 3rd Avenue.

Cavalry Rd - 7th Ave to 3rd Ave Photos



Figure 2 - Looking west onto Calvary Road towards 7th Avenue.

Cavalry Rd - 7th Ave to 3rd Ave Photos



Figure 3 - Looking west at the intersection of Calvary Road and 3rd Avenue.

Cavalry Rd - 7th Ave to 3rd Ave Photos



Figure 4 - Looking east at the intersection of Calvary Road and 7th Avenue.

Central Ave - BOM to Honda Bow Rd Photos



Figure 1 - Looking north onto Central Avenue towards Honda Bow Road.

Central Ave - BOM to Honda Bow Rd Photos

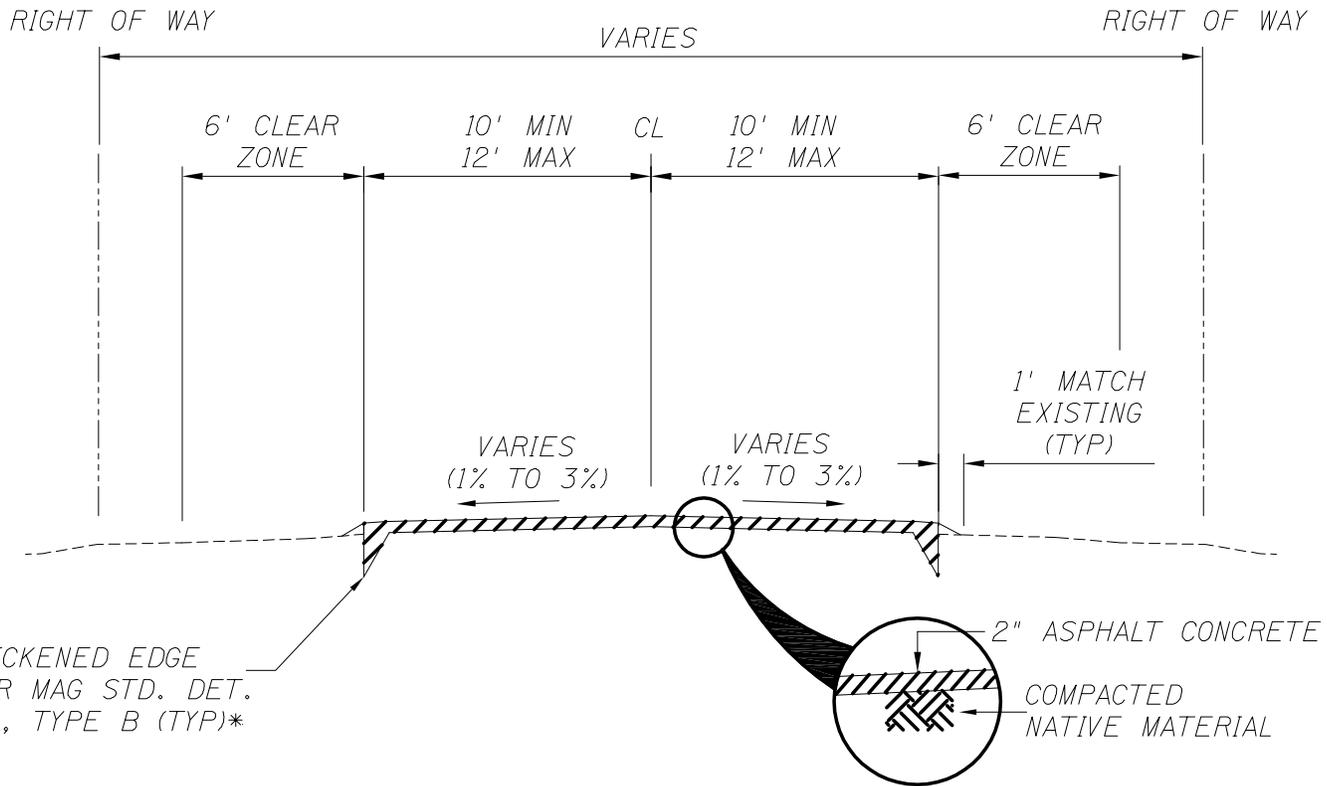


Figure 2 - Looking south at the intersection of Central Avenue and Honda Bow Road.

Central Ave - BOM to Honda Bow Rd Photos



Figure 3 - Looking south onto Central Avenue towards BOM.

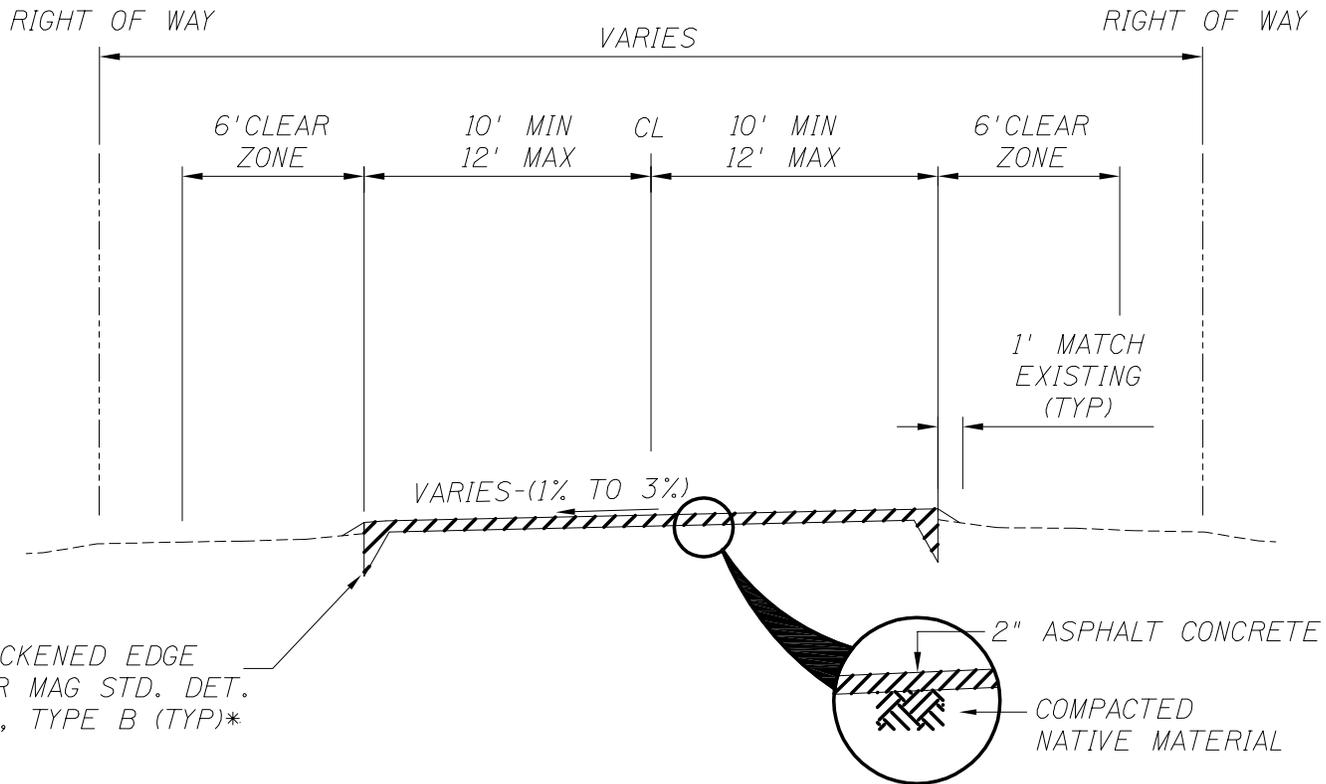


TYPICAL CROSS SECTION-CROWNED

* 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: