Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART A - CONTACT AND PROJECT DESCRIPTION
(All Items are Required, Unless Identified as 'Optional')

Contact Information

1. Agency Name	Pinal County
2. Name:	John Kraft, Senior Civil Engineer
3. Phone:	(520) 866-6480
4. E-Mail:	john.kraft@pinalcountyaz.gov
5. Mailing Address:	31 North Pinal Street Bldg F
	P.O. Box 727
	Florence, Az 85132

Project Description

6. Please provide the Project Title.	Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
7. Please provide a general description of the project.	Design & Pave approximately 1.0 miles of dirt road using a 28 foot wide typical section per County Standards.
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).	1
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

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	John Kraft
b. Date site visit completed	23-Sep-15
c. Pictures of the site visit are required.	**Please see attached pictures with transmittal**

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART A - CONTACT AND PROJECT DESCRIPTION
(All Items are Required, Unless Identified as 'Optional')

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.**

(OPTIONAL)

If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions)

GIS Submittal Instructions

PM-10 Paving Application from Pinal County for 'Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)'

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART B1 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS
(All Items are Required, Unless Identified as 'Optional')

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.

Segment Description	Segment 1
1. Segment Location - Include segment beginning and ending limits	Barnes Road from Fuqua Rd to Stanfield Rd
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).	2
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 see attached map with transmittal**
4. Please see attached typical cross section for Non-Subdivison Major Collector Modified L-2, including widths, current right of way limits, 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 monitor?	Yes, this project is within 4 miles of Air Monitor Number 27 as shown on CMAQ Paving Application Area Map
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?	dirt
7. Please describe traffic on the segment (e.g. weekday percent truck, etc.).	Farm to Market traffic including local Farm/Dairy trucks, school buses and autos - estimate 40% Trucks
8. Current Average Traffic (ADT)	Estimate 200 ADT
9. Please describe methodology used to calculate ADT	Estimated ADT based traffic counts on similar roads in the vicinity of this project. An actual traffic count for this segment of Barnes Road is being requested to verify estimate.

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART B1 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS
(All Items are Required, Unless Identified as 'Optional')

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.

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.	No known cultural, historical and biological resources, hazardous materials, or other environmental issues that could affect work on this segment.

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART B1 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS
(All Items are Required, Unless Identified as 'Optional')

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.

11. Current ROW: (Choose All that Apply and select Yes or No)

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.	No right of way issues are present on this project.

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	No
14. Please describe any utility conflicts that will need to be addressed.	

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART B1 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS
(All Items are Required, Unless Identified as 'Optional')

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 2 - Proposed Improvements	**Segment 1**
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	Yes
Other (Describe)	
2. Please describe the work to be performed on the segment:	Construct asphalt paved roadway similar to Pinal County Approved Uniform Standard L-2 for a 28 foot wide paved width.
3. Please see attached typical cross section for Non-Subdivison Major Collector Modified L-2, including widths, current right of way limits, shoulders (if any), and the lanes of travel.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	No vertical alignment changes are anticipated at this time. Finish grade of new road should match grade of existing road.
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	No horizontal alignment changes are anticipated at this time. Horizontal alignment of new road should match horizontal alignment of existing road.
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	Design speed for this segment is estimated to be 45 Mph.
7. Please describe the type of paving for the segment.	Type of pavement for this segment is estimated to be double chip seal over 10 inches of aggregate base course over a prepared subgrade. This structural section to be verified by Geotechnical Report.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART B1 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS
(All Items are Required, Unless Identified as 'Optional')

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.

Fencing	No

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PM-10 PAVING PROJECTS COST ESTIMATE WORKSHEET
(All Items are Required, Unless Identified as 'Optional')

	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	Eligible for Federal Funds: Yes or No	FEDERAL SHARE	LOCAL SHARE
PRELIMINARY ENGINEERING	Topographic Survey	LS	1	$ 8,800.00	$ 8,800.00	No	$ -	$ 8,800.00
	Project Assessment (PA)	LS	1	$ 3,500.00	$ 3,500.00	No	$ -	$ 3,500.00
	Federal Project Environmental Determination	LS	1	$ 10,200.00	$ 10,200.00	No	$ -	$ 10,200.00
	HAZMAT Assessment	LS	1	$ 2,500.00	$ 2,500.00	No	$ -	$ 2,500.00
	SUBTOTAL – PRELIMINARY ENGINEERING COSTS				**$ 25,000.00**		**$ -**	**$ 25,000.00**
FINAL DESIGN - Stages II, III, IV and PS&E	Plans, Specifications, Cost Estimates, Bidding	LS	1	$ 65,000.00	$ 65,000.00	No	$ -	$ 65,000.00
	Geotechnical Report	LS	1	$ 4,000.00	$ 4,000.00	No	$ -	$ 4,000.00
	Drainage Report	LS	1	$ 4,000.00	$ 4,000.00	No	$ -	$ 4,000.00
	SWPPP (Erosion Control Plan)	LS	1	$ 2,000.00	$ 2,000.00	No	$ -	$ 2,000.00
	SUBTOTAL – FINAL DESIGN COSTS				**$ 75,000.00**		**$ -**	**$ 75,000.00**
RIGHT OF WAY ACQUISITION	Appraisals and Title Reports	LS	1	$ -	$ -	No	$ -	$ -
	Road Right of Way	LS	1	$ -	$ -	No	$ -	$ -
	Temporary Construction Easements	LS	1	$ -	$ -	No	$ -	$ -
	Drainage Easement	LS	1	$ -	$ -	No	$ -	$ -
	Utility Easements/Right of Way	LS	1	$ -	$ -	No	$ -	$ -
	Aerial Electrical Easement	LS	1	$ -	$ -	No	$ -	$ -
	Sign Relocations	LS	1	$ -	$ -	No	$ -	$ -
	Relocation Expenses	LS	1	$ -	$ -	No	$ -	$ -
	Site Environmental Assessments	EA	1	$ -	$ -	No	$ -	$ -
	Building Demolition	EA	1	$ -	$ -	No	$ -	$ -
	Other Right of Way Expenses		1	$ -	$ -	No	$ -	$ -
	Other Right of Way Expenses		1	$ -	$ -	No	$ -	$ -
	Other Right of Way Expenses		1	$ -	$ -	No	$ -	$ -
	SUBTOTAL – RIGHT OF WAY COSTS				**$ -**		**$ -**	**$ -**
UTILITY RELOCATIONS	Relocate 69 kv (+) Poles	EA	1	$ -	$ -	No	$ -	$ -
	Relocate/Underground 12 kv lines	LF	1	$ -	$ -	No	$ -	$ -
	Relocate/Underground Irrigation Canal	LF	1	$ -	$ -	No	$ -	$ -
	SWG Relocations	LS	1	$ -	$ -	No	$ -	$ -
	Telephone/Cable TV Relocations	LS	1	$ -	$ -	No	$ -	$ -
	Upgrade Railroad Crossings	LS	1	$ -	$ -	No	$ -	$ -
	Other Utilities	LS	1	$ -	$ -	No	$ -	$ -
	Other Utilities	LS	1	$ -	$ -	No	$ -	$ -
	SUBTOTAL – UTILITY RELOCATION COSTS				**$ -**		**$ -**	**$ -**
CONSTRUCTION	Clearing & Grubbing	LS	1	$ 3,000.00	$ 3,000.00	Yes	$ 2,829.00	$ 171.00
	Removal of Asphaltic Concrete Pavement	SY	62	$ 2.50	$ 155.00	Yes	$ 146.17	$ 8.84
	Remove (Sign Panels, Posts, Foundations)	EA	2	$ 100.00	$ 200.00	Yes	$ 188.60	$ 11.40
	Grading Roadway for Pavement	SY	16,430	$ 2.50	$ 41,075.00	Yes	$ 38,733.73	$ 2,341.28
	Roadway Excavation	CY	4,546	$ 8.00	$ 36,365.00	Yes	$ 34,292.20	$ 2,072.81
	Import Borrow	CY	2,738	$ 20.00	$ 54,767.00	Yes	$ 51,645.28	$ 3,121.72
	Furnish Water	M.Gal.	500	$ 8.00	$ 4,000.00	Yes	$ 3,772.00	$ 228.00
	10" Aggregate Base Class 2	CY	4,546	$ 30.00	$ 136,369.00	Yes	$ 128,595.97	$ 7,773.03
	1/2 inch Chip HVT per MAG (first application 30lb/SY)	TN	246	$ 72.00	$ 17,744.00	Yes	$ 16,732.59	$ 1,011.41
	Polymer Modified Oil (first application oil 0.55 gal/SY, 240 gal/Ton)	TN	38	$ 1,430.00	$ 53,840.00	Yes	$ 50,771.12	$ 3,068.88
	3/8 inch LVT Precoated Chip (second application 25lb/SY)	TN	205	$ 125.00	$ 25,673.00	Yes	$ 24,209.64	$ 1,463.36
	CRS2P (second application oil 0.45 gal/SY, 240 gal/Ton)	TN	31	$ 1,250.00	$ 38,513.00	Yes	$ 36,317.76	$ 2,195.24
	Install 18 inch Corrugated Metal Pipe	LF	180	$ 56.00	$ 10,080.00	Yes	$ 9,505.44	$ 574.56
	Foundation for Sign Post	EA	10	$ 241.50	$ 2,415.00	Yes	$ 2,277.35	$ 137.66
	Sign Post (Perforated) (2S)	LF	70	$ 10.00	$ 700.00	Yes	$ 660.10	$ 39.90
	Sign Post (Perforated) (2 1/2 S)	LF	50	$ 10.00	$ 500.00	Yes	$ 471.50	$ 28.50
	Warning Marker, or Regulatory Sign Panel	SF	80	$ 20.00	$ 1,600.00	Yes	$ 1,508.80	$ 91.20
	Flat Sheet Aluminum	SF	20	$ 23.00	$ 460.00	Yes	$ 433.78	$ 26.22
	Traffic Control	LS	1	$ 30,000.00	$ 30,000.00	Yes	$ 28,290.00	$ 1,710.00
	Pavement Marking (Transverse)(Thermoplastic)(Alkyd)(0.09")	LF	150	$ 1.40	$ 210.00	Yes	$ 198.03	$ 11.97
	Permanent Pavement Marking (Painted)(White) Incl 2 applications Water Borne & Thermoplatic	LF	10,560	$ 0.75	$ 7,920.00	Yes	$ 7,468.56	$ 451.44
	Permanent Pavement Marking (Painted)(Yellow) Incl 2 applications Water Borne & Thermoplastic	LF	10,560	$ 0.75	$ 7,920.00	Yes	$ 7,468.56	$ 451.44
	Slope Stabilization	Acre	4	$ 1,500.00	$ 6,000.00	Yes	$ 5,658.00	$ 342.00
	Erosion Control (Stabilized Construction Entrance/Exit Gravel Pad)	SY	100	$ 14.00	$ 1,400.00	Yes	$ 1,320.20	$ 79.80
	Erosion Control (Sediment Logs) (20")	LF	1,000	$ 5.00	$ 5,000.00	Yes	$ 4,715.00	$ 285.00
	Survey Marker, Type A (MAG DET 120-1)	EA	1	$ 450.00	$ 450.00	Yes	$ 424.35	$ 25.65
	Survey Marker, Type B (MAG DET 120-1)	EA	1	$ 450.00	$ 450.00	Yes	$ 424.35	$ 25.65
				SUBTOTAL	**$ 486,806.00**		**$ 459,058.06**	**$ 27,747.94**
	Provide On-The-Job Training	HR	250	$ 0.80	$ 200.00	Yes	$ 188.60	$ 11.40
	Contractor Quality Control	LS	1	$ 10,000.00	$ 10,000.00	Yes	$ 9,430.00	$ 570.00
	Constructon Surveying and Layout	LS	1	$ 5,000.00	$ 5,000.00	Yes	$ 4,715.00	$ 285.00
	Mobilizaton 8%	LS	1	$ 38,944.00	$ 38,944.00	Yes	$ 36,724.19	$ 2,219.81
	SUBTOTAL - CONSTRUCTION COST				**$ 540,950.00**		**$ 510,115.85**	**$ 30,834.15**
	CONTINGENCY			**5%**	**$ 27,048.00**	Yes	$ 25,506.26	$ 1,541.74

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PM-10 PAVING PROJECTS COST ESTIMATE WORKSHEET
(All Items are Required, Unless Identified as 'Optional')

	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	Eligible for Federal Funds: Yes or No	FEDERAL SHARE	LOCAL SHARE
	CONSTRUCTION ADMINISTRATION (Assumes Certification Accepted Agencies have same costs as ADOT - 15%)			**15%**	**$ 81,143.00**	Yes	$ 76,517.85	**$ 4,625.15**
	SUBTOTAL - CONSTRUCTION COST				**$ 649,141.00**	Yes	**$ 612,139.96**	**$ 37,001.04**
SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS	PRELIMINARY ENGINEERING				$ 25,000.00	No	$ -	$ 25,000.00
	FINAL DESIGN - Stages II, III, IV and PS&E				$ 75,000.00	No	$ -	$ 75,000.00
	RIGHT OF WAY ACQUISITION				$ -	NA	$ -	$ -
	UTILITY RELOCATIONS				$ -	NA	$ -	$ -
	CONSTRUCTION (Including Construction Administration)				$ 649,141.00	Yes	$ 612,139.96	$ 37,001.04
	SUBTOTAL - PROJECT COST				$ 749,141.00	No	$ 612,139.96	$ 137,001.04
	ADOT REVIEW FEES ($10,000 for Certification Accepted Agency, Otherwise $30,000)				**$ 30,000.00**	No	$ -	$ 30,000.00
	PROJECT TOALS (Including ADOT Review Fees)				**$ 779,141.00**	Yes	**$ 612,139.96**	**$ 167,001.04**

PM-10 Paving Application from Pinal County for 'Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)'

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART C - TOTAL PROJECT BUDGET AND TIP PROGRAMMING INCLUDING ALL SEGMENTS
(All Items are Required, Unless Identified as 'Optional')

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

Cost Estimate for the Project Including ALL Segments	Cost	(Optional) Additional Notes
1. PE and Final Design	100,000.00	
2. Right of way	0.00	
3. Utilities	0.00	
4. Construction	649,141.00	
5. Total Cost w/o ADOT Review Fee	749,141.00	
6. ADOT Review Fee	30,000.00	Required. Please see ADOT Fee Sheet for additional information.
7. Total Cost with ADOT Review Fee	779,141.00	

Agency Programming

8. Please describe the programming of the project in the agency's own CIP/TIP.	If selected, this project will be programmed into Pinal County's Capital Improvement Plan (CIP) for County Fiscal Year 2017/2018 for design and 2019/2020 for construction.

Requested MAG TIP Programming	Year (Choose One)	Short Work Description (E.g. Pave Road)	Local Funding Source	Local Cost	CMAQ Cost	Total Cost	Local Share
9. Design (Optional)	2017	Design Road Paving		$ 130,000	$ -	$ 130,000	100.0%
10. Right of way (Optional)					$ -	$ -	
11. Utilities (Optional)					$ -	$ -	
12. Construction	2019	Construct Road Paving		37,001	612,140	$ 649,141	5.7%
				$ 167,001	$ 612,140	$ 779,141	

PM-10 Paving Application from Pinal County for 'Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)'

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
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: Scott Bender

Title: County Engineer

Date: 9/23/2015

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	Yes
Project Description, fields 6, 7, 9 and 10 are complete	Yes
Project Description, field 8 – project map is provided in the printed application. Please attach a PDF file in the electronic submittal.	Yes
Site Visit Information, fields 11a and 11b	Yes
Site Visit Information, fields 11c Pictures attached.	Yes
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.	Yes
Segment Description, Section 1	
Fields 1 - 2 are complete	Yes
Field 3 – segment alignment map is provided in the printed application. Please attach PDF file in the electronic submittal.	Yes
Field 4 attach PDF file in the electronic submittal.	Yes
Fields 5 – 14 are complete	Yes
Proposed Improvements, Section 2	
Fields 1 – 2 are complete	Yes
Field 3 attach PDF file in the electronic submittal.	Yes
Fields 4 – 6 **REQUIRED** for Road and Street Segments and are complete.	Yes
Fields 4 – 6 **OPTIONAL** for shoulder and alley segments, please check box if complete.	Yes
Fields 7 – 8 are complete	Yes
PART C - Total Project Budget and TIP ProgrammingIncluding All Segment Fields	
A cost estimate for PE has been developed (Rows 3-6)	Yes
A cost estimate for Final Design has been developed (Rows 8-11)	Yes
A cost estimate for Right of way has been developed (Rows 13-25)	Yes
A cost estimate for Utilities has been developed (Rows 27-34)	Yes
A cost estimate for Utilities has been developed (Rows 36-129)	Yes
PART D - Total Project Budget and TIP ProgrammingIncluding All Segment Fields	**Complete?**

Pinal County - Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)
PART D - SIGNATURE AND CHECKLIST

Requested MAG TIP Programming	
Field 8 - Agency CIP programming is completed	Yes
Fields 9 – Design Programming **OPTIONAL**	Yes
Fields 10 – Right of way Programming **OPTIONAL**	No
Fields 11 – Utilities Programming **OPTIONAL**	No
Fields 12 – Construction Programming	Yes
PART E - Signature Page Fields	**Complete?**
Form is signed	Yes
Name, title and date fields are completed.	Yes

PM-10 Paving Application from Pinal County for 'Design & Pave Barnes Road from Fuqua Rd to Stanfield Rd (1.0 mi)'

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 CMAG 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.>

ADOT Review Fees for Certification Accepted Agencies/1

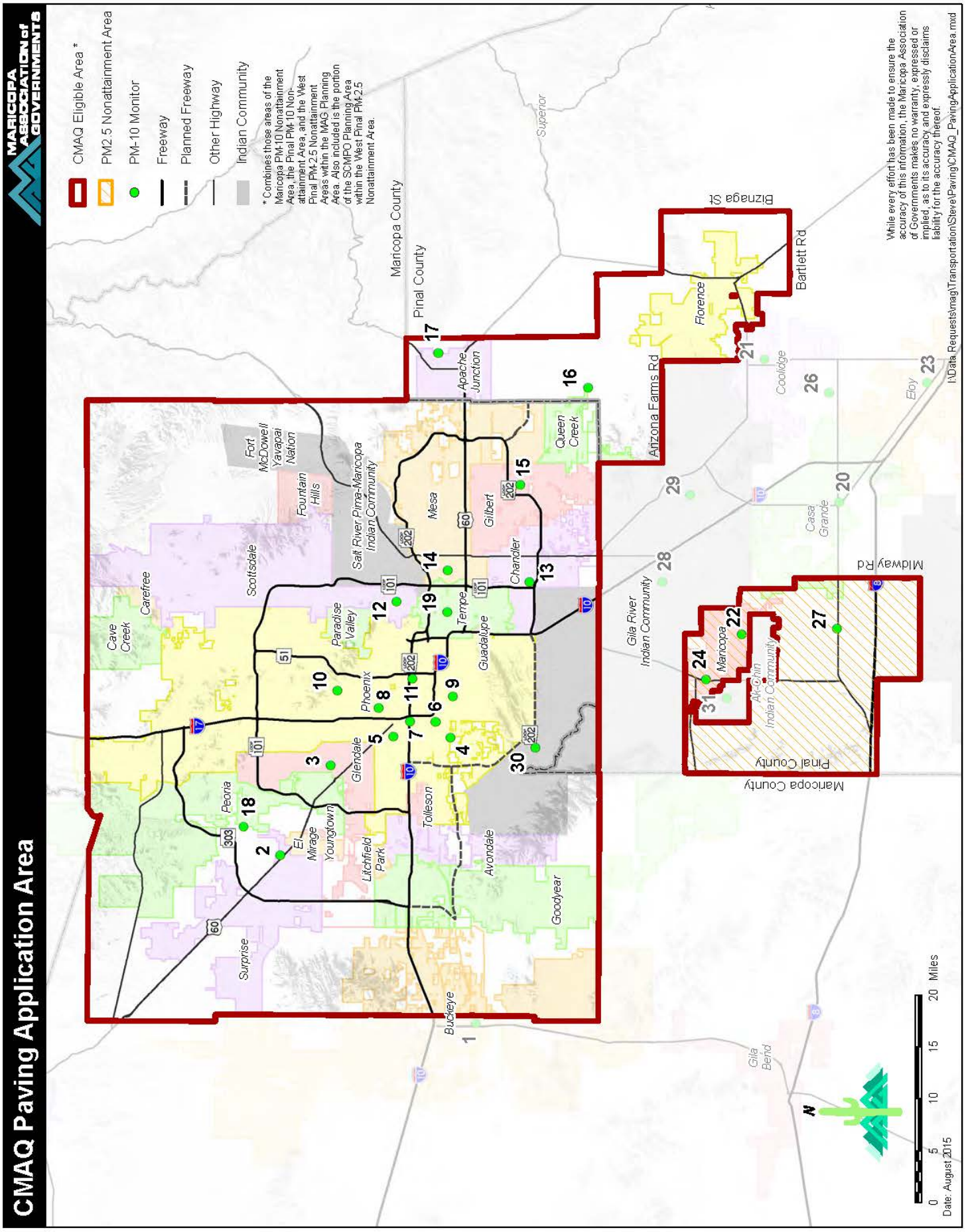
ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Environmental Planning	Environmental Planning	$ 50	100	$ 5,000
Urban Project Management	Project Manager	$ 60	60	$ 3,600
Urban Project Management	Project Coordinator	$ 60	20	$ 1,200
SUBTOTAL			**180**	**$ 9,800**
STAFF GRAND TOTAL				**$ 10,000**

ADOT Review Fees for Non Certification Accepted Agencies/1

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Contracts and Specs	Contracts and Specs	$ 60	200	$ 12,000
District	District	$ 55	18	$ 990
Engineering Consulting Section	Engineering Consulting Section	$ 40	24	$ 960
Environmental Planning	Environmental Planning	$ 50	100	$ 5,000
Materials	Geotech Design	$ 50	15	$ 750
Materials	Geotech Field Investigation	$ 50	5	$ 250
Right of Way	Plans	$ 50	40	$ 2,000
Roadway Group	Roadway Design	$ 55	40	$ 2,200
Roadway Group	Roadway Review	$ 70	5	$ 350
Traffic	Traffic Design	$ 55	45	$ 2,475
Urban Project Management	Project Manager	$ 60	40	$ 2,400
Urban Project Management	Project Coordinator	$ 60	10	$ 600
SUBTOTAL			**542**	**$ 29,975**
STAFF GRAND TOTAL				**$ 30,000**

Notes:

1. Based on material provided by ADOT in July, 2015. All functions, rates, hours and costs are as listed in the material provided by
2. Charges to agencies will be based on work performed by ADOT. Costs accrued will vary depending on project characteristics and


CMAQ Paving Application Area
MARICOPA ASSOCIATION of GOVERNMENTS
CMAQ Eligible Area *
PM2.5 Nonattainment Area
PM-10 Monitor
Freeway
Planned Freeway
Other Highway
Indian Community
* Combines those areas of the Maricopa PM-10 Nonattainment Area, the Pinal PM-10 Non-attainment Area, and the West Pinal PM-2.5 Nonattainment Areas within the MAG Planning Area. Also included is the portion of the SCMPO Planning Area within the West Pinal PM-2.5 Nonattainment Area.
While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.
I:\Data_Requests\mag\Transportation\Steve\Paving\CMAQ_PavingApplicationArea.mxd
Date: August 2015
0 5 10 15 20 Miles
N
Maricopa County
Pinal County
Superior
Apache Junction
Queen Creek
Gilbert
Chandler
Mesa
Tempe
Guadalupe
Salt River Pima-Maricopa Indian Community
Fort McDowell Yavapai Nation
Fountain Hills
Scottsdale
Paradise Valley
Phoenix
Cave Creek
Carefree
Glendale
Peoria
El Mirage
Youngtown
Litchfield Park
Tolleson
Avondale
Goodyear
Surprise
Buckeye
Gila Bend
Gila River Indian Community
Arizona Farms Rd
Florence
Bartlett Rd
Bizanga St
Coolidge
Casa Grande
Eloy
Maricopa
Ak-Chin Indian Community
Midway Rd
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2
3
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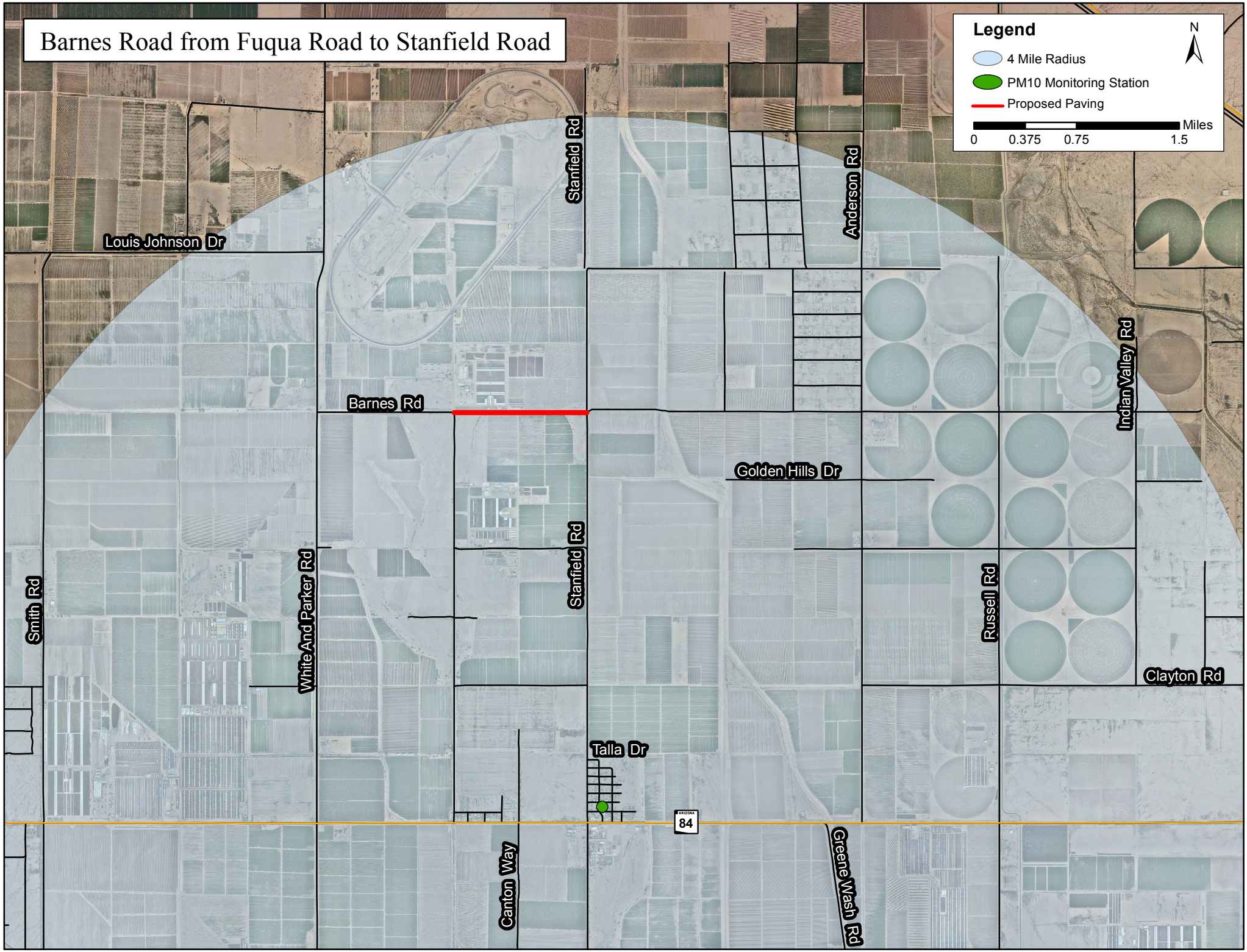
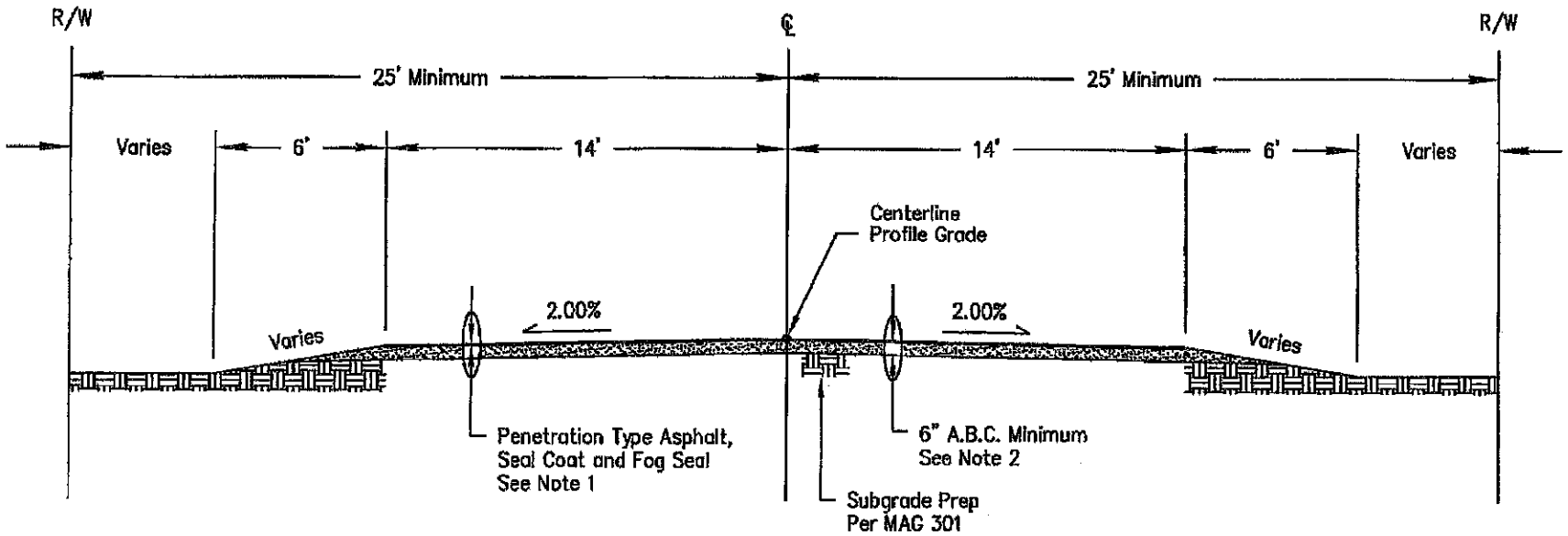
Map ID	Site ID	Name	Address	City	County	Agency
1	40134011	Buckeye	26449 West 100th Drive	Buckeye	Maricopa	Maricopa County AQD
2	40134010	Dysart	16825 North Dysart Road	Surprise	Maricopa	Maricopa County AQD
3	40132001	Glendale	6001 West Olive Avenue	Glendale	Maricopa	Maricopa County AQD
4	40134009	West 43rd Avenue	3940 West Broadway Road	Phoenix	Maricopa	Maricopa County AQD
5	40130019	West Phoenix	3847 West Earll	Phoenix	Maricopa	Maricopa County AQD
6	40139812	Durango Complex	2702 RC Ester Brook Boulevard	Phoenix	Maricopa	Maricopa County AQD
7	40133010	Greenwood	1128 North 27th Avenue	Phoenix	Maricopa	Maricopa County AQD
8	40139997	JLG Supersite	4530 North 17th Avenue	Phoenix	Maricopa	ADEQ
9	40134003	South Phoenix	33 West Tamarisk Avenue	Phoenix	Maricopa	Maricopa County AQD
10	40131004	North Phoenix	601 East Butler Drive	Phoenix	Maricopa	Maricopa County AQD
11	40133002	Central Phoenix	1645 East Roosevelt Street	Phoenix	Maricopa	Maricopa County AQD
12	40133003	South Scottsdale	2857 North Miller Road	Scottsdale	Maricopa	Maricopa County AQD
13	40134004	West Chandler	275 South Ellis	Chandler	Maricopa	Maricopa County AQD
14	40131003	Mesa	310 South Brooks	Mesa	Maricopa	Maricopa County AQD
15	40134006	Higley	15400 South Higley Road	Gilbert	Maricopa	Maricopa County AQD
16	40213009	Combs School	301 East Combs Road	Queen Creek	Pinal	Pinal County AQCD
17	40213002	Apache Junction Fire Station	3955 East Superstition Boulevard	Apache Junction	Pinal	Pinal County AQCD
18	40134016	Zuni Hills	10851 W Williams Road	Sun City	Maricopa	Maricopa County AQD
19	40134005	Tempe	1515 S College Avenue	Tempe	Maricopa	Maricopa County AQD
20	40210001	Casa Grande Downtown	401 N. Marshall Street	Casa Grande	Pinal	Pinal County AQCD
21	40213004	Coolidge Maintenance Yard	212 E. Broadway	Coolidge	Pinal	Pinal County AQCD
22	402113013	Cowtown Road	37580 W. Maricopa-Casa Grande Highway	Maricopa	Pinal	Pinal County AQCD
23	402113014	Eloy County Complex	801 N. Main Street	Eloy	Pinal	Pinal County AQCD
24	402113010	(City of) Maricopa County Complex	44625 W. Garvey Road	Maricopa	Pinal	Pinal County AQCD
25	402113007	Pinal Air Park	Water Well #2, Pinal Air Park Road	Marana	Pinal	Pinal County AQCD
26	402113011	Pinal County Housing Complex	970 N. Eleven Mile Corner Road	Casa Grande	Pinal	Pinal County AQCD
27	40213008	Stanfield County Complex	36697 W. Papago Drive	Stanfield	Pinal	Pinal County AQCD
28	40217004	Casa Blanca	Casa Blanca/Preschool Road	Bapchule	Pinal	Gila River Indian Community
29	40217001	Sacaton	35 Pima Street	Sacaton	Pinal	Gila River Indian Community
30	40137003	St Johns	4208 W. Pecos Road	Laveen	Maricopa	Gila River Indian Community
31	40217030	Ak Chin	47685 W. Eco-Museum Road	Maricopa	Pinal	Ak Chin Indian Community


Barnes Road from Fuqua Road to Stanfield Road
Legend
4 Mile Radius
PM10 Monitoring Station
Proposed Paving
Miles
0
0.375
0.75
1.5
N
Louis Johnson Dr
Stanfield Rd
Anderson Rd
Indian Valley Rd
Barnes Rd
Golden Hills Dr
Smith Rd
White And Parker Rd
Stanfield Rd
Russell Rd
Clayton Rd
Talla Dr
ARIZONA
84
Canton Way
Greene Wash Rd

Pinal County Department of Public Works
100 to 499 ADT



* Note 1

Penetration Cover Chip:
Penetration type asphalt (MC800/TR10) to be applied at the rate between 0.50 and 0.60 gal. per. sq. yd. Cover material (M.A.G. H.V.T.) to be applied at a rate between 30 and 40 lbs. per sq. yd.

Seal Coat Chip:
Seal coat asphalt (CRS-2P or AC15-5TR) to be applied at the rate between 0.40 and 0.50 gal. per. sq. yd. Cover material (M.A.G. L.V.T.) to be applied at the rate between 20 and 30 lbs. per. sq. yd. Application is to be applied 4-6 weeks after Penetration Cover Chip.

* Note 1 (continued)

Fog Seal:
Fog Seal (TRMSS or SS1-h) to be applied at the rate between 0.08 and 0.12 gal. per sq. yd., two weeks after Seal Coat Chip completion.

Note 2
The structural section shown shall be considered a minimum unless an acceptable structural design is submitted to, and approved by, the County Engineer.

Note 3
All materials and construction methods shall adhere to the Uniform Standard Specifications and Details for Public Works Construction, latest edition, as published by the Maricopa Association of Governments.

* The exact rates and all materials shall be determined by Pinal County Engineer.

2012

Non-Subdivision
Local Road

Standard L-2