

- Bowlin Road Paving Project Description Sheet		
Instructions	1. Please enter values for all cells with a green fill pattern 2. All cells are required. If the information is not applicable enter "None" or 0.	
1. Project Sponsorship	Project Sponsor Name	Maricopa
	Other Participating Agencies	
2. Project Location	Identify the Project Location (50 Char Limit)	Bowlin Road Paving
	Attach a map depicting the project.	(Attach a map depicting the project location)
	Attach a vicinity map of the project	(Attach a vicinity map showing the project location relative to the area)
3. Project Work Description	Provide a short work description (50 char limit)	Create an additional west east corridor.
	Overview - please describe the work to be performed, its benefits and costs	Bowlin Road is a minor arterial roadway that has the potential to provide east-west connectivity between the Sorrento and Rancho Mirage housing communities and retail/municipal/education/medical centers. Roadway improvements will create connectivity that reduces drive distances compared to alternative routes Honeycutt Road and Maricopa Casa Grande Highway by 4.6 and 8 miles respectively. The housing communities have 647 completed homes and 4173 at build out. The project includes design and improvements that are phased to serve as an interim solution with the least amount of throw away once the ultimate improvements to the roadway are made.
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	The nearest employment centers are within 2 miles.
	Name of Nearest Employment Center	Walmart, Banner Health, Central Arizona College, Legacy School, City of Maricopa, Wells Commercial Center, and the Ethanol Plant within a 2 mile radius of the project area.
	Approximate Number of Employees at the center	2200
	Distance to the project	< 2 miles
	Commercial Center	The Wells Commercial Subdivision
	Name of Nearest Commercial Center	The Wells Subdivision- Currently 277,015 SF of Buildings; Build Out 585,701 SF of Buildings
	Approximate Square Footage of the Commercial Center	585,701
	Distance to the project	< 3 miles
5. Regional Connectivity	Does the Project Improve Connectivity	No
	If answer above was yes, briefly discuss how the project improves regional/multijurisdictional connectivity.	

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6. Agency Plans	IS the project included in Agency Plans	Yes This project is identified in the City of Maricopa's Area Transportation Plan with a recommendation for completion by 2030.
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Plan and the role of the project in the plan.	
7. Community Involvement	Is the project a community request	No
	If the check box above is checked, briefly describe the nature of the community request.	

- Bowlin Road Paving Roadway Segment Sheet		
Instructions	<p>1. This sheet is required for all roadway segment and bridge projects. Please omit if the project is exclusively an intersection project.</p> <p>2. Items for #4 and #14 may be omitted for non bridge projects, all other green colored cells are required</p> <p>3. A Excel work sheet for each distinct roadway section or segment is required. To add a new worksheet to this Excel workbook file, do the following:</p> <ul style="list-style-type: none"> > Right Click on the Roadway tab at the bottom of the screen > Select the "Move or Copy" option > Select the "Roadway" sheet > Check the "Create Copy" box > Click the "Okay" button 	
1. Roadway Location	Roadway Name	Bowlin Road
	Starting Limit	The western limit starts just east (0.15 miles) of the White Parker Road intersection.
	Ending Limit	The ending point is just west of Anthony Boulevard (0.1 miles).
	Length (to nearest 10th of a mile)	0.98 1/11/15
Current Roadway Characteristics		
2. Federal Functional Classification	Please select the federal functional classification of the roadway	Minor Arterial
	Link to Functional Classification Maps	
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	(Attach cross section diagram that depicts the lane configuration, shoulders, the median, bicycle lanes, sidewalks, access control features such as barriers and adjoining features such as canals. Widths of features should be included and type of paving should be indicated)
	Attach a photo(s) of the current roadway	(Attach phot(s) of the roadway)
	Number of Through Lanes (Both directions)	2
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	
	Is Structurally Deficient?	No
	Is Functionally Obsolete?	No
	Link to ADOT NBI Table	
5. Pavement Condition	Pavement Type	Unpaved
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	
	Date of Rating	
	Rating	

- Bowlin Road Paving Roadway Segment Sheet		
6. Traffic	Traffic Count	2600
	Please describe how the count was collected	This count is estimated by counts from Honeycutt Road and Porter Road which pass 7914 and 8049 vehicles respectively. It was estimated 1/3 of the volumes from be reduced with this improvement.
	Date of Count	3/22/2012
	AADT	8049
	K-Factor - Percent of traffic in the peak hour	12.5%
	D-Factor - Percent of design hour volume flowing in the peak hour direction	0.625%
	Number of lanes in the Peak Hour Direction	1
	Posted Speed Limit (mph)	45
Peak Hour Speed (mph)	40	
7. Safety	Number of crashes in last 3 years by crash type.	none
	Number of fatality crashes	0
	Number of incapacitating crashes	0
	Number of non incapacitating crashes	0
	Number of possible injury crashes	0
	Number of property damage only crashes	0
8. Multimodal	Does the roadway have a transit Route?	No
	Does the roadway have a striped bicycle lanes?	No
Proposed Roadway Characteristics and Improvements		
9. Proposed Functional Classification	Please select the federal functional classification of the roadway	None
	Link to Functional Classification Maps	
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	(Attach cross section diagram that depicts the lane configuration, shoulders, the median, bicycle lanes, sidewalks, access control features such as barriers and adjoining features such as canals. Widths of features should be included and type of paving should be indicated)
	Number of Through Lanes on the improved roadway (Both directions)	2
11. Access Control Improvements	Please describe access control issues and proposed improvements	The proposed roadway includes paved shoulders allowing access to adjacent properties. No access control to adjacent properties are proposed at this time.

- Bowlin Road Paving Roadway Segment Sheet		
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	The proposed improvements will include a crown at the center of the section line which typical for construction of a rural arterial route.
	Describe vertical alignment and proposed improvements	A portion of this property is currently in the flood plain and the vertical control shall be established by preliminary engineering made available through the design of the Conditional Letter of Map Revision design for the Santa Cruz Wash Channelization project.
13. Drainage Improvements	Describe drainage issues and proposed improvements	The wash crossing is the Fuqua alignment which is the alignment designed to pass the Santa Cruz wash when it is ultimately improved. This crossing will receive a 4 lane arterial bridge crossing in the future. The proposed project will provide interim concrete paving through the wash crossing. In addition, roadway runoff shall be retained in retention ditches beside the roadway.
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	
15. Pavement Improvements	Proposed Pavement Type	Double Chip Seal
	Describe the current condition of the pavement and proposed improvements	This roadway is currently unimproved and impassable due to a large wash crossing.
16. Traffic Improvements	Describe traffic issues and proposed Improvements	The only alternative east west corridor is Honeycutt Road which has 8049 ADT vehicles passing. This Roadway is arterial roadway with 2 through lanes currently. The proposed improvements would provide relief to this roadway.
17. Safety Improvements	Describe safety issues and proposed Improvements	None currently
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	There are no multimodal facilities proposed with the phase of improvements.
Environmental, Right-of-way and Other Considerations		
19. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endanger species, cultural assets, hazardous materials sites, 4Fs, Title VI populations, wet lands that would be affected by the project.	No known cultural, historical, biological or hazardous materials that affect this segment.
20. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, how much right-of-way will be required, if right-of-way is needed are actors such as the State Lands Department be involved, etc.	The proposed roadway is within a section line easement allowing 33' North and South of centerline. No ROW acquisition will be required for this project.
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	the Development timeline for this roadway and area are dependant on Channelization of the Santa Cruz wash which is not expected to happen within the next ten years.
22. Utilities	Please describe utilities that could impact the proposed project	Power Lines are within 33' easement however on the shoulder.

- Bowlin Road Paving Traffic Intersection Sheet		
1. Intersection Location	Roadway Name A	
	Roadway Name B	
Current Intersection Characteristics		
2. Federal Functional Classification	Federal Functional Classification of Roadway A	None
	Federal Functional Classification of Roadway B	None
	Link to Functional Classification Maps	
4. Current Intersection Configuration	Attach an intersection diagram	(Attach an intersection diagram that details all lanes (through, left and center lanes) and associated widths)
	Attach a photo(s) of the current intersection	(Attach photo(s) of the intersection)
	Number of through lanes	
	Roadway A	
	Roadway B	
5. Pavement Condition	Pavement Type	Unpaved
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	
	Date of Rating	
	Rating	
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume	
	Approach 2 traffic volume	
	Approach 3 traffic volume	
	Approach 4 traffic volume	

- Bowlin Road Paving Traffic Intersection Sheet		
7. Safety	Number of crashes in last 3 years by crash type.	
	Number of fatality crashes	
	Number of incapacitating crashes	
	Number of non incapacitating crashes	
	Number of possible injury crashes	
	Number of property damage only crashes	
8. Multimodal	Does the roadway have a transit Route?	No
	Does the roadway have a striped bicycle lanes?	No
Proposed Intersection Characteristics and Improvements		
9. Federal Functional Classification	Federal Functional Classification of Roadway A	None
	Federal Functional Classification of Roadway B	None
	Link to Functional Classification Maps	
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved	(Attach an intersection diagram that details all lanes (through, left and center lanes) and associated widths)
11. Access Control Improvements	Please describe access control issues and proposed improvements	
12. Pavement Improvements	Proposed Pavement Type	Unpaved
	Describe pavement issues and proposed Improvements	
13. Traffic Improvements	Improves traffic throughput in the intersection	
	Describe traffic issues and proposed Improvements	
14. Safety Improvements	Addresses safety issues at a current intersection	
	Describe safety issues and proposed Improvements	
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	

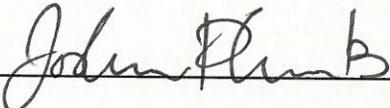
- Bowlin Road Paving Traffic Intersection Sheet		
Proposed Intersection Characteristics and Improvements		
16. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endanger species, cultural assets, hazardous materials sites that would be affected by the project.	
17. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, actors such as the State Lands Department will be involved, etc.	
18. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	
19. Utilities	Please describe utilities that could impact the proposed project	

**- Bowlin Road Paving
MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET
(Cost Estimates Are Required)**

- Bowlin Road Paving MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET (Cost Estimates Are Required)								
Instructions	1. Cost estimates from this sheet transfer directly to the budget estimate 2. Please select "Yes" if the item will be programmed in a federally funded work phase							
	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	PROGRAMMED WITH FEDERAL FUNDS	FEDERAL SHARE	LOCAL SHARE
PRELIMINARY ENGINEERING <i>(Required for Budget)</i>	Topographic Survey	LS	1	\$ 8,000.00	\$ 8,000.00	No	\$ -	\$ 8,000.00
	Design Concept Report (DCR)	LS	1	\$ -	\$ -	No	\$ -	\$ -
	Federal Project Environmental Determination	LS	1	\$ 15,000.00	\$ 15,000.00	No	\$ -	\$ 15,000.00
	HAZMAT Assessment	LS	1	\$ 3,000.00	\$ 3,000.00	No	\$ -	\$ 3,000.00
	SUBTOTAL - PRELIMINARY ENGINEERING COSTS				\$ 26,000.00		\$ -	\$ 26,000.00
FINAL DESIGN <i>(Required for Budget)</i>	Plans, Specifications, Cost Estimates, Bidding	LS	1	\$ 90,067.80	\$ 90,067.80	No	\$ -	\$ 90,067.80
	Geotechnical Report	LS	1	\$ 21,015.82	\$ 21,015.82	No	\$ -	\$ 21,015.82
	Drainage Report	LS	1	\$ -	\$ -	No	\$ -	\$ -
	SWPPP	LS	1	\$ 1,200.90	\$ 1,200.90	No	\$ -	\$ 1,200.90
	SUBTOTAL - FINAL DESIGN COSTS				\$ 112,284.52		\$ -	\$ 112,284.52
RIGHT OF WAY <i>(Required for Budget, May be 0 if now ROW)</i>	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	EA	1	\$ -	\$ -	No	\$ -	\$ -
	SUBTOTAL - RIGHT OF WAY COSTS				\$ -		\$ -	\$ -
UTILITY RELOCATIONS <i>(Required for Budget, May be 0 if now Utilities)</i>	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 <i>(Required for Budget)</i>	Contractor Mobilization	LS	1	\$ 20,000.00	\$ 20,000.00	Yes	\$ 18,860.00	\$ 1,140.00
	HAZMAT Abatement	LS	1	\$ 15,000.00	\$ 15,000.00	Yes	\$ 14,145.00	\$ 855.00
	Construction Survey and Layout	LS	1	\$ 5,000.00	\$ 5,000.00	Yes	\$ 4,715.00	\$ 285.00
	Temporary Traffic Control	LS	1	\$ 1,500.00	\$ 1,500.00	Yes	\$ 1,414.50	\$ 85.50
	Remove Existing Improvements	LS	1	\$ -	\$ -	Yes	\$ -	\$ -
	Remove Curb and Gutter	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Remove Pavement	SF	50	\$ 8.00	\$ 400.00	Yes	\$ 377.20	\$ 22.80
	Remove Driveway	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Remove Concrete Sidewalks, Slabs	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	General Excavation	LS	1	\$ -	\$ -	Yes	\$ -	\$ -
	Drainage Excavation	LS	1	\$ 25,000.00	\$ 25,000.00	Yes	\$ 23,575.00	\$ 1,425.00
	Backfill/Borrow Material	LS	1	\$ 35,000.00	\$ 35,000.00	Yes	\$ 33,005.00	\$ 1,995.00
	AC Pavement including ABC Base	SY	13,517	\$ 20.00	\$ 270,336.00	Yes	\$ 254,926.85	\$ 15,409.15
	Concrete Pavement including ABC Base	SY	282	\$ 20.00	\$ 5,632.00	Yes	\$ 5,310.98	\$ 321.02
	AC Mill and Overlay	SY	1	\$ -	\$ -	Yes	\$ -	\$ -
	Curb and Gutter	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Aggregate Base	SY	1	\$ -	\$ -	Yes	\$ -	\$ -
	Concrete Driveways	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Colored Concrete	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Concrete Pavers	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Stamped Asphalt	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Stamped Concrete	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Concrete Sidewalk	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Pedestrian ADA Ramps	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Bus Bay	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Bus Shelters	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Irrigation Pipeline	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Irrigation Canal relocation	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Irrigation Canal Culvert/Bridge Crossing	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Decorative Screen Walls	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Retaining Wall	SF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Electrical Service Connection	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Joint Trench Conduit, including City Spare	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Traffic Signal Intertie	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Traffic Signal	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Temporary Traffic Signal	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Traffic Signage and Markings	LS	1	\$ -	\$ -	Yes	\$ -	\$ -
	Street Lighting including conduit and trenching	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Pedestrian Lighting including conduit and trenching	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Handrail	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Utility Protection and Adjustments	LS	1	\$ -	\$ -	Yes	\$ -	\$ -
	Adjust Water Valve	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Relocate Fire Hydrant	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Adjusted Manholes	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Drainage Catch basins and Scuppers	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Storm Drain 48"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Storm Drain 36"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Storm Drain 24"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Storm Drain 18"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	New Waterline 8"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	New Waterline 12"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	New Waterline 16"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	New Sanitary Sewer 8"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	New Sanitary Sewer 12"	LF	1	\$ -	\$ -	Yes	\$ -	\$ -
	Trees (36" box)	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Tree Grates	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Trees (24" box)	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Shrubs (5 gallon)	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Shrubs (1 gallon)	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Cactus (5 gallon)	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Decomposed Granite	SY	1	\$ -	\$ -	Yes	\$ -	\$ -
	Topsoil	SY	1	\$ -	\$ -	Yes	\$ -	\$ -
	Seeding	Acre	1	\$ -	\$ -	Yes	\$ -	\$ -
	Sod	SY	1	\$ -	\$ -	Yes	\$ -	\$ -
	Boulders	EA	1	\$ -	\$ -	Yes	\$ -	\$ -
	Irrigation System - Drip	LS	1	\$ -	\$ -	Yes	\$ -	\$ -
	Irrigation System - Turf	LS	1	\$ -	\$ -	Yes	\$ -	\$ -
Irrigation Booster Pump	EA	1	\$ -	\$ -	Yes	\$ -	\$ -	
Landscape Header Curb	LF	1	\$ -	\$ -	Yes	\$ -	\$ -	
Landscape Establishment	LS	1	\$ -	\$ -	Yes	\$ -	\$ -	
Benches/Seatwalls	EA	1	\$ -	\$ -	Yes	\$ -	\$ -	
Bike Racks	EA	1	\$ -	\$ -	Yes	\$ -	\$ -	
Trash Receptacles	EA	1	\$ -	\$ -	Yes	\$ -	\$ -	
Drinking Fountains	EA	1	\$ -	\$ -	Yes	\$ -	\$ -	
Clearing and Grubbing	LS	1	\$ 50,000.00	\$ 50,000.00	Yes	\$ 47,150.00	\$ 2,850.00	
General Grading	LS	1	\$ 75,000.00	\$ 75,000.00	Yes	\$ 70,725.00	\$ 4,275.00	
Rip Rap over filter fabric	CY	200	\$ 150.00	\$ 30,000.00	Yes	\$ 28,290.00	\$ 1,710.00	
Subgrade preparation	SY	13,517	\$ 5.00	\$ 67,584.00	Yes	\$ 63,731.71	\$ 3,852.29	
Place for entering an additional item #5		1	\$ -	\$ -	Yes	\$ -	\$ -	
Place for entering an additional item #6		1	\$ -	\$ -	Yes	\$ -	\$ -	

- Bowlin Road Paving MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET (Cost Estimates Are Required)								
Instructions	1. Cost estimates from this sheet transfer directly to the budget estimate 2. Please select "Yes" if the item will be programmed in a federally funded work phase							
	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	PROGRAMMED WITH FEDERAL FUNDS	FEDERAL SHARE	LOCAL SHARE
	Place for entering an additional item #7		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #8		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #9		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #10		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #11		1%	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #12		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #13		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #14		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #15		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #16		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #17		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #18		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #19		1	\$ -	\$ -	Yes	\$ -	\$ -
	Place for entering an additional item #20		1	\$ -	\$ -	Yes	\$ -	\$ -
	SUBTOTAL - CONSTRUCTION COST				\$ 600,452.00		\$ 566,226.24	\$ 34,225.76
	CONTINGENCY			10%	\$ 60,045.20	Yes	\$ 56,622.62	\$ 3,422.58
	ADOT CONSTRUCTION			15%	\$ 90,067.80	Yes	\$ 84,933.94	\$ 5,133.86
	SUBTOTAL - CONSTRUCTION COST				\$ 750,565.00		\$ 707,782.80	\$ 42,782.21
SUMMARY	PRELIMINARY ENGINEERING				\$ 26,000.00	NA	\$ -	\$ 26,000.00
	FINAL DESIGN - Stages II, III, IV and PS&E				\$ 112,284.52	NA	\$ -	\$ 112,284.52
	RIGHT OF WAY ACQUISITION				\$ -	NA	\$ -	\$ -
	UTILITY RELOCATIONS				\$ -	NA	\$ -	\$ -
	CONSTRUCTION (Including ADOT Construction Administration)				\$ 750,565.00	NA	\$ 707,782.80	\$ 42,782.21
	SUBTOTAL - PROJECT COST				\$ 888,849.52	NA	\$ 707,782.80	\$ 181,066.73
	ADOT REVIEW FEES (\$10,000 for Certification Accepted agencies, \$30,000 for all other agencies)				\$ 30,000.00	No	\$ -	\$ 30,000.00
	PROJECT TOALS (Including ADOT Review Fees)				\$ 918,849.52	NA	\$ 707,782.80	\$ 211,066.73

- Bowlin Road Paving Budget and Signature							
Instructions		1. This sheet is required for all projects 2. All work phases regardless of funding source must be included in the proposed programming. 3. The signature part of this page must be signed with the printed application sent to MAG					
1. Project Budget	Preliminary Engineering and Final Design	138,285	Optional: Notes				
	Right of way	-	Optional: No Acquisition Needed				
	Utilities	-	Optional: No Adjustments Needed				
	Construction	750,565	Optional: Notes				
	Total Cost w/o ADOT Review Fee	888,850					
	ADOT Review Fee	30,000	Assumes the ADOT design fee is 3 percent of project cost or \$30,0000, which ever is the higher amount.				
	Total Cost	918,850					
2. Agency CIP	Please describe the agency programming in its CIP						
3. Proposed Programming	Work Phase	Year to be Programmed/1	Funding Source	Federal Amount/2	Local Amount	Total	Local Share/3
	PE/Design	2018	STP-MAG	130,403	7,882	138,285	6%
	Construction	2020	STP-MAG	707,782	42,783	750,565	6%
	ADOT Review Fee	2018	None	-	-	-	0%
	None	None	None	-	-	-	0%
	None	None	None	-	-	-	0%
	Total			838,185	50,665	888,850	
	Notes:	1. Federal funds are available only for 2018 and 2020		2. In 2018, \$350,000 is available; In 2020, \$1,270,000 is available.		3. The minimum local share is 5.7%	

Signature: To be signed with printed hard copy that is sent to MAG	
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:	JOSHUA PLUMB
Title:	ENGINEERING MANAGER
Date:	9.23.2015

- Bowlin Road Paving Checklist (Optional)		
Instructions	1. This page must be submitted with the printed copy of the application 2. It must be signed by the jurisdiction's manage/administer or designated representative 3. The checklist at the bottom of the sheet is optional	
Category	Data Item	Item Enter (Yes/No)
Project Page		
1. Project Sponsorship	Project Sponsor Name	y
	Other Participating Agencies	y
2. Project Location	Identify the Project Location (50 Char Limit)	y
	Attach a map depicting the project.	y
	Attach a vicinity map of the project	y
3. Project Work Description	Provide a short work description (50 char limit)	y
	Overview - please describe the work to be performed, its benefits and costs	y
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	y
	Approximate Number of Employees at the center	y
	Distance to the project	y
	Commercial Center	
	Name of Nearest Commercial Center	y
Approximate Square Footage of the Commercial Center	y	
Distance to the project	y	
5. Regional Connectivity	Connectivity	y
	If the check box above is checked, briefly discuss how the project improves regional/multijurisdictional connectivity.	
6. Agency Plans	Included in Agency Plans	y
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Pan and the role of the project in the plan.	y
7. Community Involvement	Is the project a community request	y
Roadway Page(s) - Check all roadway pages submitted for funding		
1. Roadway Location	Roadway Name	y
	Starting Limit	y
	Ending Limit	y
	Length (to nearest 10th of a mile)	y
2. Federal Functional Classification	Please select the federal functional classification of the roadway	y
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	y
	Attach a photo(s) of the current roadway	y
	Number of Through Lanes (Both directions)	y
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	y
	Bridge Status (from ADOT NBI Table)	y
5. Pavement Condition	Pavement Type	y
	Pavement Rating	y
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	y
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	y
	Date of Rating	y
	Rating	y
6. Traffic	Traffic Count	
	Please describe how the count was collected	y
	Date of Count	y
	AADT	y
	K-Factor - Percent of traffic in the peak hour	y
	D-Factor - Percent of design hour volume flowing in the peak hour direction	y
	Number of lanes in the Peak Hour Direction	y
	Posted Speed Limit (mph)	y
Peak Hour Speed (mph)	y	
7. Safety	Number of crashes in last 3 years by crash type.	
	Number of fatality crashes	y
	Number of incapacitating crashes	y
	Number of non incapacitating crashes	y
	Number of possible injury crashes	y
Number of property damage only crashes	y	
8. Multimodal	Multimodal characteristics (check all that apply)	y
9. Proposed Functional Classification	Please select the federal functional classification of the roadway	y
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	y
	Number of Through Lanes on the improved roadway (Both directions)	y
11. Access Control Improvements	Please describe access control issues and proposed improvements	y
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	y
	Describe vertical alignment and proposed improvements	y
13. Drainage Improvements	Describe drainage issues and proposed improvements	y
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	y
15. Pavement Improvements	Proposed Pavement Type	y
	Describe the current condition of the pavement and proposed improvements	y
16. Traffic Improvements	Describe traffic issues and proposed Improvements	y
17. Safety Improvements	Describe safety issues and proposed Improvements	y
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	y
19. Environmental	Please describe environmental impacts or challenges of the project - e.g. endanger species, cultural assets, hazardous materials sites, 4Fs, Title VI populations, wet lands that would be affected by the project.	y
	Please describe right-of-way issues - e.g. whether right-of-way will be required, how much right-of-way will be required, if right-of-way is needed are actors such as the State Lands Department be involved, etc.	y
20. Right-of-way		
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	y
22. Utilities	Please describe utilities that could impact the proposed project	y
Intersection Page(s) - Check all Intersection pages submitted for funding		
1. Intersection Location	Roadway Name A	y
	Roadway Name B	y
2. Federal Functional Classification	Federal Functional Classification of Roadway A	y

- Bowlin Road Paving Checklist (Optional)		
	Federal Functional Classification of Roadway B	y
4. Current Intersection Configuration	Attach an intersection diagram	y
	Attach a photo(s) of the current intersection	y
	Number of through lanes	
	Roadway A	y
	Roadway B	
5. Pavement Condition	Pavement Type	y
	Pavement Rating	y
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	y
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	y
	Date of Rating	y
	Rating	y
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume	y
	Approach 2 traffic volume	y
	Approach 3 traffic volume	y
	Approach 4 traffic volume	y
7. Safety	Number of crashes in last 3 years by crash type.	
	Number of fatality crashes	y
	Number of incapacitating crashes	y
	Number of non incapacitating crashes	y
	Number of possible injury crashes	y
	Number of property damage only crashes	y
8. Multimodal	Multimodal characteristics (check all that apply)	y
9. Federal Functional Classification	Federal Functional Classification of Roadway A	y
	Federal Functional Classification of Roadway B	y
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	y
11. Access Control Improvements	Please describe access control issues and proposed improvements	y
12. Pavement Improvements	Proposed Pavement Type	y
	Describe pavement issues and proposed Improvements	y
13. Traffic Improvements	Traffic Congestion	y
	Describe traffic issues and proposed Improvements	y
14. Safety Improvements	Safety Impacts	y
	Describe safety issues and proposed Improvements	y
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	y
16. Environmental	Please describe environmental impacts or challenges of the project - e.g. endanger species, cultural assets, hazardous materials sites that would be affected by the project.	y
17. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, actors such as the State Lands Department will be involved, etc.	y
18. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	y
19. Utilities	Please describe utilities that could impact the proposed project	y
Cost estimate Work Sheet		
	Preliminary Engineering Cost Estimate entered	y
	Final Design Cost Estimate entered	y
	ROW Cost Estimate entered (This may be zero if there is now ROW to be acquired)	y
	Utilities Cost Estimate entered (This may be zero if there is now Utilities)	y
	Construction Cost Estimate entered	y
Budget Page		
2. Agency CIP	Please describe the agency programming in its CIP	y
3. Proposed Programming	Work Phase	y
	Year to be Programmed	
	Funding Source	y
	Federal Amount	y
	Local Amount	y
	Work Phase	y
	Year to be Programmed	
	Funding Source	y
	Federal Amount	y
	Local Amount	y
	Work Phase	y
	Year to be Programmed	
	Funding Source	y
	Federal Amount	y
	Local Amount	y
	Work Phase	y
	Year to be Programmed	
	Funding Source	y
	Federal Amount	y
	Local Amount	y
Signature Area	Signature	y
	Name	y
	Title	y
	Date	y

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

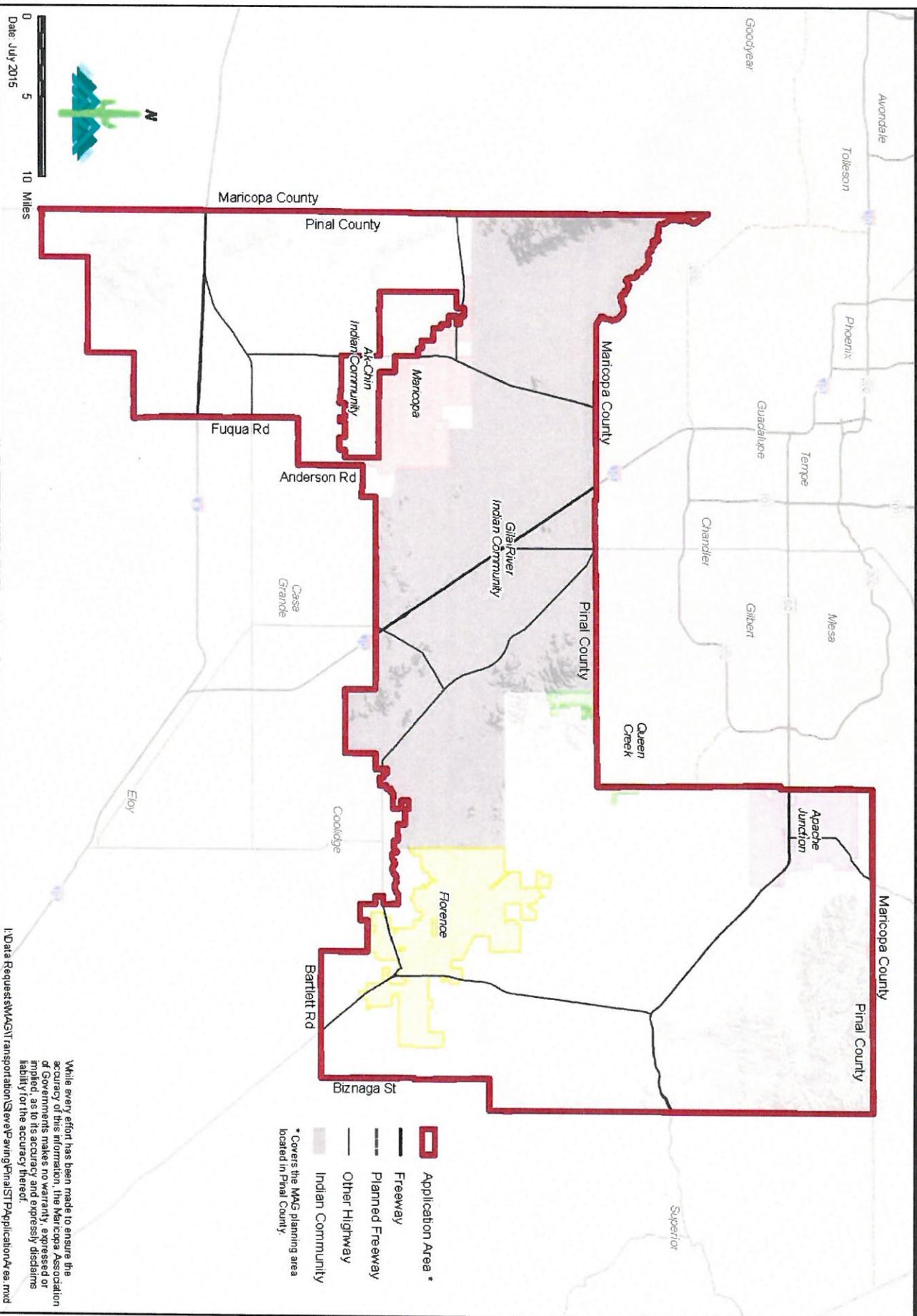
ADOT Review Fees for Non Certification Accepted Agencies/1

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

Pinal STP Application Area

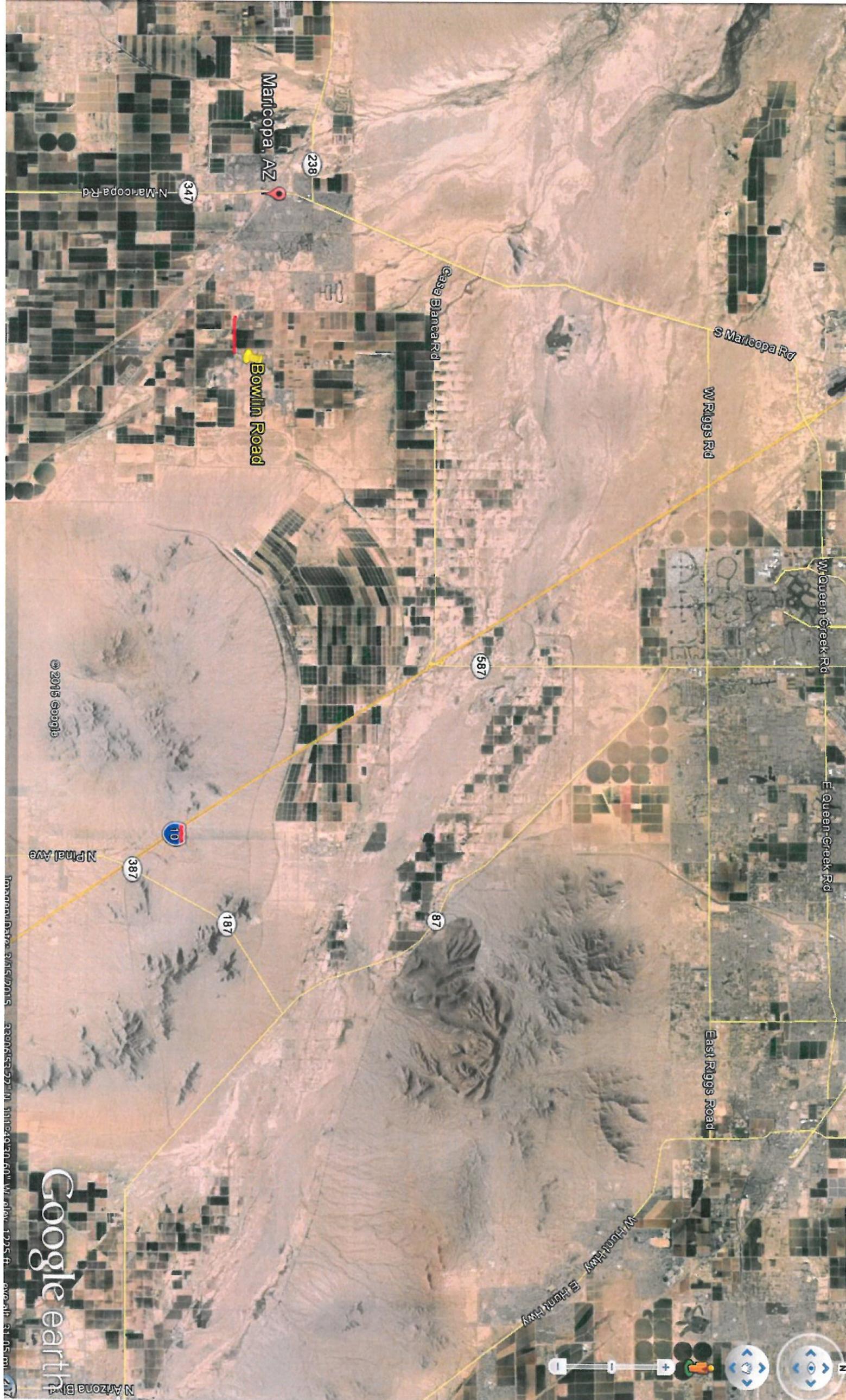


- Application Area *
 - Freeway
 - Planned Freeway
 - Other Highway
 - Indian Community
- * Covers the MAG planning area located in Pinal County.

0 5 10 Miles
Date: July 2015

I:\Data Request\SMAGST transportation\Server\Paving\Pinal\STP Application Area.mxd

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.



Maricopa, AZ

Bowlin Road

S Maricopa Rd

W Riggs Rd

Gaspar Blanca Rd

N Maricopa Rd

W Queen Creek Rd

E Queen Creek Rd

East Riggs Road

W Hilltop Hwy
E Hilltop Hwy



387

187

87

587

238

347

© 2015 Google

Google earth

Imagery Date: 3/15/2015 39°06'53.27" N, 111°49'30.60" W, elev: 1225 ft, area: 31.05 mi 2





Banner Health

Legacy School

Central Arizona College

City of Maricopa

Rancho Mirage

Sorrento

4. Bowlin - Wash Crossing

3. Bowlin - Power Lines

2. Bowlin - Grubbing Required

1. POB

Google earth



1. Bowlin - POB



2. Bowlin – Grubbing Required



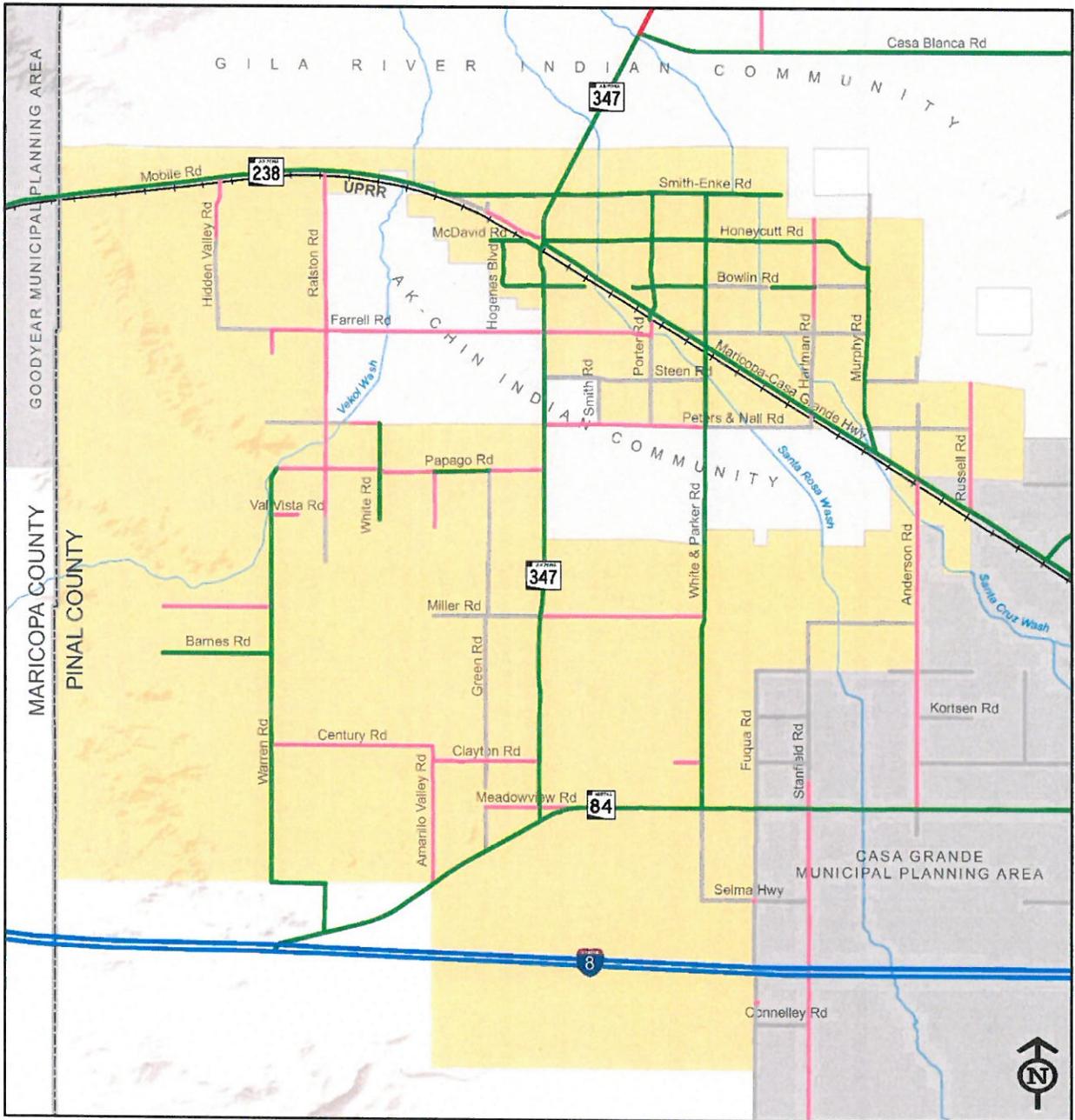
3. Bowlin – Power Lines



4. Bowlin – Wash Crossing



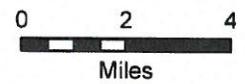
5. Bowlin - End



Source: 2014 MAG Travel Demand Model

Legend

- | | |
|----------------|----------------------|
| Counties | Facility Type |
| Railroad | Freeway |
| Major Washes | Expressway |
| TMP Study Area | Major Arterial |
| | Collector |
| | Unpaved Road |



WILSON & COMPANY

March 20, 2015

Figure 4-8 | Facility Type

Table 4-3 | Major Roadways by Functional Classification and Facility Type

Street Name	Extents From (N, W)	Extents To (S, E)	ADOT Functional Classification	MAG Model Facility Type
East-West Roadways				
SR 238	Pinal/Maricopa County Line	SR 347	Major Collector	Major Arterial
Smith-Enke Rd	SR 347	White & Parker Rd	Major Collector	Major Arterial
Smith-Enke Rd	White & Parker Rd	Metropolitan Planning Area (MPA) Boundary		Major Arterial
Garvey Ave	SR 238	Green Rd		Unpaved Road
Garvey Ave	Green Rd	SR 347		Collector
McDavid Rd	Green Rd	SR 347		Major Arterial
Honeycutt Rd	SR 347	Murphy Rd		Major Arterial
Bowlin Rd	Hogenes Blvd	Santa Cruz Wash		Major Arterial
Alan Stephens Pkwy/Bowlin Rd	Stonegate Rd	White & Parker Rd		Major Arterial
Bowlin Rd	White & Parker Rd	Fuqua Rd		Unpaved Road
Bowlin Rd	Fuqua Rd	Hartman Rd		Major Arterial
Bowlin Rd	Hartman Rd	Murphy Rd		Unpaved Road
Farrell Rd	Hidden Valley Rd	Porter Rd		Collector
Farrell Rd	Maricopa-Casa Grande Hwy (MCGH)	Murphy Rd		Unpaved Road
Steen Rd	SR 347	White & Parker Rd		Unpaved Road
Steen Rd	Murphy Rd	Anderson Rd		Unpaved Road
Peters & Nall Rd	Warren Rd	Ralston Rd		Collector
Peters & Nall Rd	Ralston Rd	Brewer Rd		Unpaved Road
Peters & Nall Rd	Brewer Rd	White Rd		Collector
Peters & Nall Rd	SR 347	White & Parker Rd		Collector
Peters & Nall Rd	White & Parker Rd	Hartman Rd		Unpaved Road
Peters & Nall Rd	Murphy Rd	Russell Rd		Unpaved Road
MCGH	SR 347	Anderson Rd	Minor Arterial	Major Arterial
Papago Rd	Warren Rd	Amarillo Valley Rd	Major Collector	Collector
Papago Rd	Amarillo Valley Rd	Green Rd	Major Collector	Major Arterial
Papago Rd	Green Rd	SR 347	Major Collector	Collector
Val Vista Rd	Warren Rd	Thunderbird Rd		Collector
Miller Rd	Sage St	Warren Rd		Collector
Miller Rd	Amarillo Valley Rd	SR 347		Unpaved Road
Miller Rd	SR 347	White & Parker Rd		Collector
Miller Rd	Stanfield Rd	Anderson Rd		Unpaved Road
Barnes Rd	Sage St	Warren Rd		Major Arterial
Randolph Rd	Fuqua Rd	Stanfield Rd		Unpaved Road
Randolph Rd	Pala Rd	Anderson Rd		Unpaved Road

Table 4-3 | Major Roadways by Functional Classification and Facility Type (Continued)

Street Name	Extents From (N, W)	Extents To (S, E)	ADOT Functional Classification	MAG Model Facility Type
East-West Roadways (Continued)				
Century Rd	Warren Rd	Amarillo Valley Rd		Collector
Clayton Rd	Amarillo Valley Rd	SR 347		Collector
Clayton Rd	Leland Rd	White & Parker Rd		Collector
Meadowview Rd	Green Rd	SR 84		Collector
SR 84	Metropolitan Planning Area (MPA) Boundary at Amarillo Valley Rd	SR 347	Minor Arterial	Major Arterial
SR 84	SR 347	Fuqua Rd	Major Collector	Major Arterial
Selma Hwy	White & Parker Rd	Fuqua Rd		Unpaved Road
I-8	Amarillo Valley Rd Alignment	Fuqua Rd	Interstate	Freeway

Bowlin Road

1215
1214
1213
1212
1211

