

PC2 - Tomahawk Rd

Tomahawk
Road and
Southern
Avenue

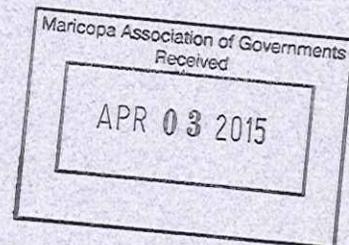
April 3

2015



PINAL • COUNTY
wide open opportunity

MAG Surface
Transportation
Program for
Pinal County



Pinal County Area - STP Application

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/administrator 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	Yes
	Other Participating Agencies	Yes
2. Project Location	Identify the Project Location (50 Char Limit)	Yes
	Attach a map depicting the project.	Yes
	Attach a vicinity map of the project	Yes
3. Project Work Description	Provide a short work description (50 char limit)	Yes
	Overview - please describe the work to be performed, its benefits and costs	Yes
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	Yes
	Name of Nearest Employment Center	Yes
	Approximate Number of Employees at the center	Yes
	Distance to the project	Yes
	Commercial Center	Yes
	Name of Nearest Commercial Center	Yes
	Approximate Square Footage of the Commercial Center	Yes
5. Regional Connectivity	Connectivity	Yes
	If the check box above is checked, briefly discuss how the project improves regional/multijurisdictional connectivity.	Yes
6. Agency Plans	Included in Agency Plans	Yes
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Pan and the role of the project in the plan.	Yes
7. Community Involvement	Is the project a community request	Yes
Roadway Page(s) - Check all roadway pages submitted for funding		
1. Roadway Location	Roadway Name	Yes
	Starting Limit	Yes
	Ending Limit	Yes
	Length (to nearest 10th of a mile)	Yes
2. Federal Functional Classification	Please select the federal functional classification of the roadway	Yes
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	Yes
	Attach a photo(s) of the current roadway	Yes
	Number of Through Lanes (Both directions)	Yes
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	
	Bridge Status (from ADOT NBI Table)	
5. Pavement Condition	Pavement Type	Yes
	Pavement Rating	Yes
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	Yes
	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.	Yes
	Date of Rating	Yes
6. Traffic	Traffic Count	Yes
	Please describe how the count was collected	Yes
	Date of Count	
	AADT	Yes
	K-Factor - Percent of traffic in the peak hour	Yes
	D-Factor - Percent of design hour volume flowing in the peak hour direction	Yes
	Number of lanes in the Peak Hour Direction	Yes
	Posted Speed Limit (mph)	Yes
Peak Hour Speed (mph)	Yes	
7. Safety	Number of crashes in last 3 years by crash type.	Yes
	Number of fatality crashes	Yes
	Number of incapacitating crashes	Yes
	Number of non incapacitating crashes	Yes
	Number of possible injury crashes	Yes
8. Multimodal	Number of property damage only crashes	Yes
	Multimodal characteristics (check all that apply)	Yes

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Checklist (Optional)

9. Proposed Functional Classification	Please select the federal functional classification of the roadway	Yes
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved. Number of Through Lanes on the improved roadway (Both directions)	Yes Yes
11. Access Control Improvements	Please describe access control issues and proposed improvements	Yes
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements Describe vertical alignment and proposed improvements	Yes Yes
13. Drainage Improvements	Describe drainage issues and proposed improvements	Yes
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	NA
15. Pavement Improvements	Proposed Pavement Type	Yes
	Describe the current condition of the pavement and proposed improvements	Yes
16. Traffic Improvements	Describe traffic issues and proposed Improvements	Yes
17. Safety Improvements	Describe safety issues and proposed Improvements	Yes
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	Yes
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.	Yes
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.	Yes
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	Yes
22. Utilities	Please describe utilities that could impact the proposed project	Yes
Intersection Page(s) - Check all intersection pages submitted for funding		
1. Intersection Location	Roadway Name A	Yes
	Roadway Name B	Yes
2. Federal Functional Classification	Federal Functional Classification of Roadway A	Yes
	Federal Functional Classification of Roadway B	Yes
	Link to Functional Classification Maps	Yes
4. Current Intersection Configuration	Attach an intersection diagram	Yes
	Attach a photo(s) of the current intersection	Yes
	Number of through lanes	Yes
	Roadway A	Yes
	Roadway B	Yes
5. Pavement Condition	Pavement Type	Yes
	Pavement Rating	Yes
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	Yes
	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.	Yes
	Date of Rating	Yes
	Rating	Yes
6. Traffic	Traffic Volume in the Peak Hour by approach	Yes
	Approach 1 traffic volume	Yes
	Approach 2 traffic volume	Yes
	Approach 3 traffic volume	Yes
	Approach 4 traffic volume	Yes
7. Safety	Number of crashes in last 3 years by crash type.	Yes
	Number of fatality crashes	Yes
	Number of incapacitating crashes	Yes
	Number of non incapacitating crashes	Yes
	Number of possible injury crashes	Yes
	Number of property damage only crashes	Yes
8. Multimodal	Multimodal characteristics (check all that apply)	Yes
9. Federal Functional Classification	Federal Functional Classification of Roadway A	Yes
	Federal Functional Classification of Roadway B	Yes
	Link to Functional Classification Maps	Yes
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	Yes
11. Access Control Improvements	Please describe access control issues and proposed improvements	Yes
12. Pavement Improvements	Proposed Pavement Type	Yes
	Describe pavement issues and proposed Improvements	Yes

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Checklist (Optional)

13. Traffic Improvements	Traffic Congestion	Yes
	Describe traffic issues and proposed Improvements	Yes
14. Safety Improvements	Safety Impacts	Yes
	Describe safety issues and proposed Improvements	Yes
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	Yes
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.	Yes
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.	Yes
18. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	Yes
19. Utilities	Please describe utilities that could impact the proposed project	Yes

Budget Page

1. Project Budget	Preliminary Engineering and Final Design	Yes
	Right of way	Yes
	Construction	Yes
2. Agency CIP	Please describe the agency programming in its CIP	Yes
3. Proposed Programming	Work Phase	Yes
	Year to be Programmed	Yes
	Funding Source	Yes
	Federal Amount	Yes
	Local Amount	Yes
	Work Phase	Yes
	Year to be Programmed	Yes
	Funding Source	Yes
	Federal Amount	Yes
	Local Amount	Yes
	Work Phase	Yes
	Year to be Programmed	Yes
	Funding Source	Yes
	Federal Amount	Yes
	Local Amount	Yes
	Work Phase	
	Year to be Programmed	
	Funding Source	
	Federal Amount	
	Local Amount	
	Work Phase	
	Year to be Programmed	
	Funding Source	
	Federal Amount	
	Local Amount	
Signature Area	Signature	Yes
	Name	Yes
	Title	Yes
	Date	Yes

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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	Pinal County ▼
	Other Participating Agencies	Pinal County is submitting this project as the lead agency at the request of the City of Apache Junction. The county and city will enter into an intergovernmental agreement to define cost participation for the county's portion of the project as shown on the cost tab included in this application. Upon project completion, it is the city's intention to assume right-of-way and maintenance responsibilities of the roadways. Reference Attachment 1 - Letter of Commitment
2. Project Location	Identify the Project Location (50 Char Limit)	Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Weeks Wash to Tomahawk Road.
	Attach a map depicting the project.	Reference Attachment 2 - Project Location Map
	Attach a vicinity map of the project	Reference Attachment 3 - Project Vicinity Map
3. Project Work Description	Provide a short work description (50 char limit)	Design and construct roadways.
	Overview - please describe the work to be performed, its benefits and costs	The project will improve the region's transportation system by extending the existing minor arterial roadway sections on Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Tomahawk Road to Weeks Wash. This project will benefit the traveling public by providing continuity by matching the existing 60-foot wide street sections on either end of the project and establishing two thru lanes of traffic in each direction with bike lanes on both sides of the roadways and sidewalks on one side. When completed, the project will offer an alternate access route in case U. S.60 needs to be closed and detour routes established on surface streets. The project involves replacing the existing pavement with new to match city roadway standards. The project design and construction costs of this 0.84 mile project is estimated as shown on the cost tab included with this application.
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	Major employment centers include a Ford car dealership and Circle K in near proximity to the project. The City of Apache Junction's primary employment and commercial center is off the main stretch of Apache Trail that is within 3 miles of the project.
	Approximate Number of Employees at the center	50
	Distance to the project	< 1 mile ▼
	Commercial Center	
	Name of Nearest Commercial Center	The Ford dealership is just south of U. S. 60 on the west side of Tomahawk Road. Circle K is located just north of U.S.60 and east of Tomahawk Road.
	Approximate Square Footage of the Commercial Center	1000000
	Distance to the project	< 3 miles ▼
5. Regional Connectivity	Connectivity	<input checked="" type="checkbox"/> The project improves regional/multijurisdictional connectivity
	If the check box above is checked, briefly discuss how the project improves regional/multijurisdictional connectivity.	Currently, there is one northbound and one southbound thru lane and center left turn lane on Tomahawk Road within the project limits. Also, there are two eastbound and one westbound thru lanes and a center left turn lane on Southern Avenue within the project limits. This project will provide two thru lanes in each direction with bike lanes on both sides and a sidewalk on one side. This project involves a small modification to the Minor Arterial Cross Section Standard Detail for the City of Apache Junction a copy of which is included with this application. The proposed improvements will match the existing roadway configuration at both ends of the project.
6. Agency Plans	Included in Agency Plans	<input checked="" type="checkbox"/> The project project is identified in the jurisdiction General/Transportation Plan
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Plan and the role of the project in the plan.	Tomahawk Road and Southern Avenue are shown on the ADOT Phoenix-Mesa (East) Functionally Classified Roads map approved by FHWA Division Office 11/4/2014. Both roads are currently classified as Minor Arterial Roads.
7. Community Involvement	Is the project a community request	<input checked="" type="checkbox"/> The project been requested through a neighborhood or community meeting or by council/board/commission outside of

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If the check box above is checked, briefly describe the nature of the community request.

The City of Apache Junction staff members have requested the roadway improvements with bike lanes and sidewalk to accommodate this residential area within the city.

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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	Tomahawk Road and Southern Avenue
	Starting Limit	Tomahawk Road starting limit is at the north side of the Circle K just north of U.S. 60. Southern Avenue starting limit is just east of Weeks Wash.
	Ending Limit	Tomahawk Road ending limit is on the north side of the Tomahawk Road and Southern Avenue intersection. Southern Avenue ending limit is on the east side of the Tomahawk Road and Southern Avenue intersection.
	Length (to nearest 10th of a mile)	0.84
Current Roadway Characteristics		
2. Federal Functional Classification	Please select the federal functional classification of the roadway Link to Functional Classification Maps	Minor Arterial ▼ Phoenix-Mesa (East) Functionally Classified Roads (11/4/2014)
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved. Attach a photo(s) of the current roadway Number of Through Lanes (Both directions)	(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) Reference Attachment 4 - Cross Section Diagram (Attach photo(s) of the roadway) Reference Attachment 5 - Photos 3
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table) Bridge Status (from ADOT NBI Table) Link to ADOT NBI Table	<input type="checkbox"/> Is Structurally Defick <input type="checkbox"/> Is Functionally Obsol None
5. Pavement Condition	Pavement Type 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	Asphaltic Concrete ▼ Pavement Condition Index (PCI) Scale = 1 to 100 40
6. Traffic	Traffic Count Please describe how the count was collected	Traffic Count - Winter 2013 (6/6/2013) The traffic count information was obtained from the City of Apache Junction's website (hyperlink is located within the cell above). The traffic count for Year 2013 lists Tomahawk Road at 3,772 and Southern Avenue at 1,853 vehicles per day. Reference Attachment 6 - Traffic Counts

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Roadway Segment Sheet

	Date of Count		6/6/2013
	AADT		3772
	K-Factor - Percent of traffic in the peak hour		65%
	D-Factor - Percent of design hour volume flowing in the peak hour direction		65%
	Number of lanes in the Peak Hour Direction		1
	Posted Speed Limit (mph)		35
	Peak Hour Speed (mph)		45
7. Safety	Number of crashes in last 3 years by crash type.	A Safety Analysis Report was received from MAG ITS and Safety for Tomahawk Road and Southern Avenue on March 26, 2015 and March 30, 2015. Findings for both roadways combined are 60 total crashes. The information is shown below for the three year period from 2011-2013. Reference Attachment 7 - Crash Data	
	Number of fatality crashes		0
	Number of incapacitating crashes		0
	Number of non incapacitating crashes		7
	Number of possible injury crashes		15
	Number of property damage only crashes		38
8. Multimodal	Multimodal characteristics (check all that apply)	<input type="checkbox"/> Roadway has transit route <input checked="" type="checkbox"/> Has striped bicycle lanes	
Proposed Roadway Characteristics and Improvements			
9. Proposed Functional Classification	Please select the federal functional classification of the roadway	<input type="text" value="Minor Arterial"/>	
	Link to Functional Classification Maps	Phoenix-Mesa (East) Functionally Classified Roads (11/4/2014)	
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	Reference Attachment 8 - Typical Cross Section	
	Number of Through Lanes on the improved roadway (Both directions)	4	
11. Access Control Improvements	Please describe access control issues and proposed improvements	There are some existing streets that intersect both Tomahawk Road and Southern Avenue within the limits of the project. Access to these streets will be maintained as is.	
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	Horizontal alignment of existing roadways will be utilized.	
	Describe vertical alignment and proposed improvements	Vertical alignment of existing roadways will be utilized. A 2% normal crown is recommended for the new pavement.	

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Roadway Segment Sheet

13. Drainage Improvements	Describe drainage issues and proposed improvements	Drainage improvements will include curb and gutter and new valley gutters for surface drainage only.
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	One existing bridge exists on Southern Avenue for Weeks Wash. No issues are anticipated with this existing bridge. There is a small wash that crosses Southern Avenue approximately 1/4 mile east of Tomahawk Road. The estimated drainage area for this wash is 34 acres, runoff coefficient = 0.6 and intensity = 5in/hr for 25 year event. Using Rational equation $Q_{25} = C_{IA} = 105cfs$. Thus, a triple barrel 36 inch diameter, 40 foot long culvert is added to the cost estimate to accomodate this flow.
15. Pavement Improvements	Proposed Pavement Type	Asphaltic Concrete
	Describe the current condition of the pavement and proposed improvements	Current condition of the pavement shows alligator cracking. Pinal County did some pavement preservation work a few years ago; however, some cracks are reflecting through the previous work.
16. Traffic Improvements	Describe traffic issues and proposed Improvements	Additional lane capacity going from 3 to 4 lanes of traffic will be provided with this project.
17. Safety Improvements	Describe safety issues and proposed Improvements	This project will enhance safety for motorists, bicyclists and pedestrians by providing additional lane widths, new bike lanes and sidewalks.
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	New bike lanes will improve the multimodal aspects of this project.
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.	There are no environmental impacts anticipated for this project.
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.	Proposed project has 100 feet of existing right-of-way (ROW). We estimate a strip of land 30 feet wide by 1,320 feet long of new ROW that will be needed for the project along the south side of Southern Avenue from Tomahawk Road to approximately 1/4 mile east. This will enable the new 4 lane minor arterial section on Southern Avenue to connect to the existing widened section on Southern Avenue approximately 1/4 mile east of Tomahawk Road. The county cost for ROW purchase is included on the cost tab of this application.
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	Land use along project corridor predominantly consists of existing residential development. There is no planned or ongoing development that is expected to impact the proposed project.
22. Utilities	Please describe utilities that could impact the proposed project	An estimated utility relocation cost of \$200,000 is included on the cost tab of this application as a county match of 100%.

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Traffic Intersection Sheet

1. Intersection Location	Roadway Name A	Tomahawk Road
	Roadway Name B	Southern Avenue
Current Intersection Characteristics		
2. Federal Functional Classification	Federal Functional Classification of Roadway A	Minor Arterial <input type="button" value="▼"/>
	Federal Functional Classification of Roadway B	Minor Arterial <input type="button" value="▼"/>
	Link to Functional Classification Maps	Phoenix-Mesa (East) Functionally Classified Roads (11/4/2014)
4. Current Intersection Configuration	Attach an intersection diagram	Reference Attachment 9 - Intersection Photo (No diagram of the current intersection is available at this time)
	Attach a photo(s) of the current intersection	Reference Attachment 9 - Intersection Photo
	Number of through lanes (In each direction)	
	Roadway A	2
	Roadway B	2
5. Pavement Condition	Pavement Type	Asphaltic Concrete <input type="button" value="▼"/>
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	PCI
	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.	Scale = 1 to 100
	Date of Rating	
	Rating	40
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume	3772
	Approach 2 traffic volume	1853
	Approach 3 traffic volume	
	Approach 4 traffic volume	

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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	A Safety Analysis Report was received from MAG ITS and Safety for Tomahawk Road and Southern Avenue on March 30, 2015. The findings for the intersection is 25 total crashes and are also shown below for the three year period from 2011-2013. Reference Attachment 10 - Crash Data 0 0 3 7 15
8. Multimodal	Multimodal characteristics (check all that apply)	<input type="checkbox"/> Roadway has transit route <input checked="" type="checkbox"/> Has striped bicycle lanes
Proposed Intersection Characteristics and Improvements		
9. Federal Functional Classification	Federal Functional Classification of Roadway A	Minor Arterial
	Federal Functional Classification of Roadway B	Minor Arterial
	Link to Functional Classification Maps	Phoenix-Mesa (East) Functionally Classified Roads (11/4/2014)
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	(An intersection diagram that details all lanes, thru, left and center lanes and associated widths will be prepared by the design consultant once selected by ADOT's PM.)
11. Access Control Improvements	Please describe access control issues and proposed improvements	There are approximately 8 intersecting roads onto this project. Each intersection will be appropriately designed to include curb, gutter, sidewalk, sidewalk ramps, and possibly concrete valley gutters.
12. Pavement Improvements	Proposed Pavement Type	Asphaltic Concrete
	Describe pavement issues and proposed Improvements	For Tomahawk Road lane, widening will be accomplished by keeping the existing curb and gutter along the west side of road and providing the 60-foot wide section shown on the Minor Arterial Cross Section Detail by removing the existing pavement, and providing pavement widening to the east. It is anticipated that there will be enough room to accomplish this widening without having to relocate the existing block wall along the east side of road. A 6-foot wide new sidewalk will be provided along the entire west side of Tomahawk Road. See continuation under #16. Environmental below.
13. Traffic Improvements	Traffic Congestion	<input type="checkbox"/> Proposed improvements improve traffic throughput in the intersection Additional lane capacity will relieve congestion along the project corridor when U.S. 60 is detoured onto these surface streets.
	Describe traffic issues and proposed Improvements	
14. Safety Improvements	Safety Impacts	<input checked="" type="checkbox"/> Proposed improvements address safety issues at a current intersection Additional lane capacity will allow for improved traffic circulation at the intersection of Tomahawk Road and Southern Avenue.
	Describe safety issues and proposed Improvements	
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	New bike lanes will be provided with this project per the Minor Arterial cross section.

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Traffic Intersection Sheet

Proposed Intersection Characteristics and Improvements

<p>16. Environmental</p>	<p>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.</p>	<p>No cultural or biological impacts are anticipated by widening the existing roadways. As a continuation for pavement improvements on Southern Avenue, the existing curb and gutter along the south side will be kept and existing pavement will be removed and replaced to achieve the 60' minor arterial section by widening to the north. A 6-foot wide new sidewalk will be provided along the entire north side of Tomahawk Road. The new 60-foot wide minor arterial roadway section will start at Weeks Wash, commence to the east, and terminate approximately 1/4 mile east of Tomahawk Road. Both Tomahawk and Southern Avenue will be constructed per Apache Junction's Standard Minor Arterial Cross Section (AJ-20.3) with the exception of having a new 6 foot sidewalk on one side of the road.</p>
<p>17. Right-of-way</p>	<p>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.</p>	<p>100 feet of right-of-way currently exists along both roadways.</p>
<p>18. Development Activity</p>	<p>Please describe planned and ongoing development activity that could impact the proposed project</p>	<p>Properties adjacent to subject roadways have existing residential development with the exception of one vacant parcel along the east side of Tomahawk Road north of US60.</p>
<p>19. Utilities</p>	<p>Please describe utilities that could impact the proposed project</p>	<p>An estimated amount of \$200,000 is included on the cost tab of this application for utility relocations as a county match of 100%.</p>

Tomahawk Road US60 to Southern Ave. (60' x 1900')
 Southern Ave from Tomahawk Rd to Weeks Wash (60' x 2560')
 March 26, 2015 Application for STP Funds Thru Maricopa Association of Governments
 Project No. TBD (MAG) (0.84 mi Total Project Length)

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	Estimate UNIT PRICE	Ext PRICE
1	Construction Survey & Layout	LS	1	\$15,000.00	15,000
2	AZPDES (NPDES) Construction Permit Requirements (Allowance)	LS	1	\$15,000.00	15,000
3	Erosion Control (Wattles) 12"	LF	9,000	\$1.75	15,750
4	Mobilization	LS	1	\$100,000.00	100,000
5	Clearing and Grubbing	Acre	1.25	\$1,500.00	1,875
6	Contractor Quality Control	LS	1.00	\$20,000.00	20,000
7	Traffic Control	LS	1	\$90,000.00	90,000
8	Off-Duty Pinal County Sheriff Officer	Hour	60	\$45.00	2,700
9	Remove Existing Sidewalk Ramp	SF	1,020	\$1.50	1,530
10	Remove existing Alley Entrance	SF	1,680	\$1.50	2,520
11	Remove Existing Concrete Curb & Gutter	LF	400	\$4.00	1,600
12	Removal of Trees	EA	500	\$4.00	2,000
13	Sawcut & Remove, & Dispose of Existing Asphalt Pavement	SY	22,062	\$5.00	110,310
14	Roadway Excavation	CY	2,000	\$8.00	16,000
15	Subgrade Preparation	SY	30,667	\$4.00	122,668
16	Aggregate Base Course (12" Thick)	Ton	18,630	\$16.00	298,080
17	Asphalt Concrete Pavement (3/4" Mix), 3.0" Thick	Ton	5,175	\$80.00	414,000
18	Asphalt Concrete Pavement (1/2" Mix), 3.0" Thick	Ton	5,175	\$85.00	439,875
19	Bituminous Tack Coat (0.1 gal/SY @ 240gal/Ton)	Ton	13	\$550.00	7,150
20	Vertical Curb & Gutter, MAG Det. 220, Type A, H = 6"	LF	3,140	\$12.00	37,680
21	6' Concrete Sidewalk, MAG Det 230	SF	18,840	\$3.50	65,940
22	Concrete Sidewalk Ramp MAG Det 235-1	EA	24	\$1,500.00	36,000
23	Residential Driveway Entrance MAG Std Det 250-1	SF	2,496	\$4.25	10,608
24	Alley Entrance MAG Std Det 262	SF	1,680	\$4.50	7,560
25	Concrete Valley Gutter & Apron MAG Std Det 240	SF	2,720	\$6.00	16,320
26	Adjust Valve Box and Cover to Finished Grade, MAG Std Det 391-1, Type A	EA	20	\$300.00	6,000
27	Adjust Sewer Manhole Frame and Cover, MAG Det 422	EA	10	\$400.00	4,000
28	Decomposed Granite, 2" Thick	Ton	220	\$25.00	5,500
29	Remove and Salvage Traffic Sign	EA	15	\$85.00	1,275
30	Furnish and Install Truncated Domes for Sidewalk Ramps	SF	40	\$15.00	600
31	Relocate Traffic Sign, MCDOT Det. 2060	EA	10	\$100.00	1,000
32	6" WHITE Stripe, Thermoplastic Pavement Marking, 90MIL, Hot-Sprayed	LF	17,840	\$0.75	13,380
33	6" YELLOW Stripe, Thermoplastic Pavement Marking, 90MIL, Hot-Sprayed	LF	8,920	\$0.75	6,690
34	Thermoplastic Pavement ARROW, 90 MIL, Preformed Type I	EA	14	\$65.00	910
35	Thermoplastic Pavement "ONLY" Legend, 90 MIL, Preformed Type I	EA	6	\$60.00	360
36	Reflectorized Raised Pavement Marker	EA	1,500	\$2.50	3,750
37	Perforated Sign Posts, 2" X 2"	LF	200	\$10.00	2,000
38	Perforated Sign Post Foundation	EA	20	\$180.00	3,600
39	Flat Sheet Aluminum Sign Panel, Diamond Grade	SF	90	\$20.00	1,800
40	36" CMP, 12 Guage, Bituminous Coated	LF	120	\$175.00	21,000
41	Notification Signage	EA	2	\$3,000.00	6,000
42	Variable Message Signs (Board)	EA-Day	28	\$250.00	7,000
	Subtotal for Construction Items 1 thru 41				1,935,031
	Construction Contingency for Estimate (5%)	EST %			96,752
	Construction Engineering for Estimate (15%)	EST %			290,255
	Post Design Services	LS	1		5,000
	Original Available for Construction				2,327,038
	Engineering Design & Environmental by Consultant (14% of Subtotal for Const)	EST %			270,904
	ADOT PMDR (3% Const)	EST %			58,051
	Total Project Design Costs				328,955
	Total Estimated Construction & Design Cost for Project				2,655,993
	Estimated County Costs for Project				
	County Match @ 5.7% for Design	EST %			18,750
	County Match @ 100% for Utility Relocation Costs	LS	1	\$200,000.00	200,000
	County Match @ 100% for Right-of-Way (ROW) Costs	Acre	1	\$60,000.00	60,000
	County Match @ 5.7% for Construction	EST %			132,641
	County Match @ 100% for Actual ADOT CE Over & above Estimated 15%	EST %			290,255
	County Match @ 100% for Actual Construction Costs Above Low Bid Amount (10%)	EST %			193,503
	County Match Total for Project				895,149

Pinal County Area - STP Application

Budget and Signature

Instructions																																																		
1. Project Budget	<p>1. This sheet is required for all projects</p> <p>2. All work phases regardless of funding source must be included in the proposed programming.</p> <p>3. The signature part of this page must be signed with the printed application sent to MAG</p>																																																	
Preliminary Engineering and Final Design	270,904 See Cost Tab included with application - 14% of Construction Cost																																																	
Right of way	- See Cost Tab included with application - ROW Cost included with Estimated County Costs for Project.																																																	
Construction	2,327,038 See Cost Tab included with application - Includes 5% Contingency, CE Costs @ 15% & Post Design Services.																																																	
Total Cost w/o ADOT Review Fee	2,597,942																																																	
ADOT Review Fee	58,051 Assumes the ADOT design fee is 3 percent of project cost or \$30,0000, which ever is the higher amount.																																																	
Total Cost	2,655,993 See Cost Tab included with application - Estimated County Costs for Project also shown.																																																	
2. Agency CIP	Please describe the agency programming in its CIP Funding for this project is identified in Pinal County's 5-Year Transportation Plan as Safety Funds																																																	
3. Proposed Programming	<table border="1"> <thead> <tr> <th>Work Phase</th> <th>Year to be Programmed/1</th> <th>Funding Source</th> <th>Federal Amount/2</th> <th>Local Amount</th> <th>Total</th> <th>Share/3</th> </tr> </thead> <tbody> <tr> <td>PE/Design</td> <td>2017</td> <td>STP-MAG</td> <td>310,205</td> <td>18,750</td> <td>328955</td> <td>6%</td> </tr> <tr> <td>Rightof way</td> <td>2017</td> <td>None</td> <td></td> <td></td> <td></td> <td>0%</td> </tr> <tr> <td>Construction</td> <td>2019</td> <td>STP-MAG</td> <td>2,194,397</td> <td>132,641</td> <td>2327038</td> <td>6%</td> </tr> <tr> <td>None</td> <td>None</td> <td>None</td> <td>-</td> <td>-</td> <td>0</td> <td>0%</td> </tr> <tr> <td>None</td> <td>None</td> <td>None</td> <td>-</td> <td>-</td> <td>0</td> <td>0%</td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td>2504602</td> <td>151391</td> <td>2655993</td> <td></td> </tr> </tbody> </table> <p>Notes:</p> <p>1. Federal funds are available only for 2016, 2017, 2018 and 2019.</p> <p>2. Approx. \$5.7 million is available over the period.</p> <p>3. The minimum local share is 5.7%</p>	Work Phase	Year to be Programmed/1	Funding Source	Federal Amount/2	Local Amount	Total	Share/3	PE/Design	2017	STP-MAG	310,205	18,750	328955	6%	Rightof way	2017	None				0%	Construction	2019	STP-MAG	2,194,397	132,641	2327038	6%	None	None	None	-	-	0	0%	None	None	None	-	-	0	0%	Total			2504602	151391	2655993	
Work Phase	Year to be Programmed/1	Funding Source	Federal Amount/2	Local Amount	Total	Share/3																																												
PE/Design	2017	STP-MAG	310,205	18,750	328955	6%																																												
Rightof way	2017	None				0%																																												
Construction	2019	STP-MAG	2,194,397	132,641	2327038	6%																																												
None	None	None	-	-	0	0%																																												
None	None	None	-	-	0	0%																																												
Total			2504602	151391	2655993																																													

Pinal County Area - STP Application

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:

Scott Bender, P.E.

Title:

County Engineer

Date:

3/31/2015

Louis Andersen
Public Works Director

Scott Bender
County Engineer



PINAL COUNTY
wide open opportunity

Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 1 – Letter of Commitment

PUBLIC WORKS DEPARTMENT

31 North Pinal Street, Building F, PO Box 727 Florence, AZ 85132

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Public Works Department
City of Apache Junction
Home of the Superstition Mountains

March 31, 2015

Mr. John Bullen
Transportation Planner II
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, AZ 85003

Subject: Pinal County Surface Transportation Program Application
Tomahawk Road-Southern Avenue Project

Dear Mr. Bullen:

I am pleased to provide this letter of support and express my commitment for Pinal County's application under the Surface Transportation Program (STP). The STP funding will be used to widen 0.8 miles of Tomahawk Road from U.S. 60 to Southern Avenue and Southern Avenue from Tomahawk Road to Weekes Wash in Apache Junction within an unincorporated area of Pinal County. The proposed project involves upgrading the roadways from two to four lanes with bicycle lanes and sidewalk. When constructed, the improvements will match the existing roadways and be built to the City of Apache Junction's design standards and MAG standards and specifications.

The City of Apache Junction intends to enter into an intergovernmental agreement with Pinal County to address the project's cost share, right-of-way transfer, and maintenance responsibilities. We look forward to working with Pinal County to implement this project and enhance regional connectivity.

Please feel free to contact me at (480) 474-8513 or gpham@ajcity.net if I may be of further assistance.

Sincerely,

Giao Pham, P.E.
City of Apache Junction
Public Works Director

Louis Andersen
Public Works Director

Scott Bender
County Engineer



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Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 2 – Project Location Map

PUBLIC WORKS DEPARTMENT

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Louis Andersen
Public Works Director

Scott Bender
County Engineer

Greg Stanley
County Manager



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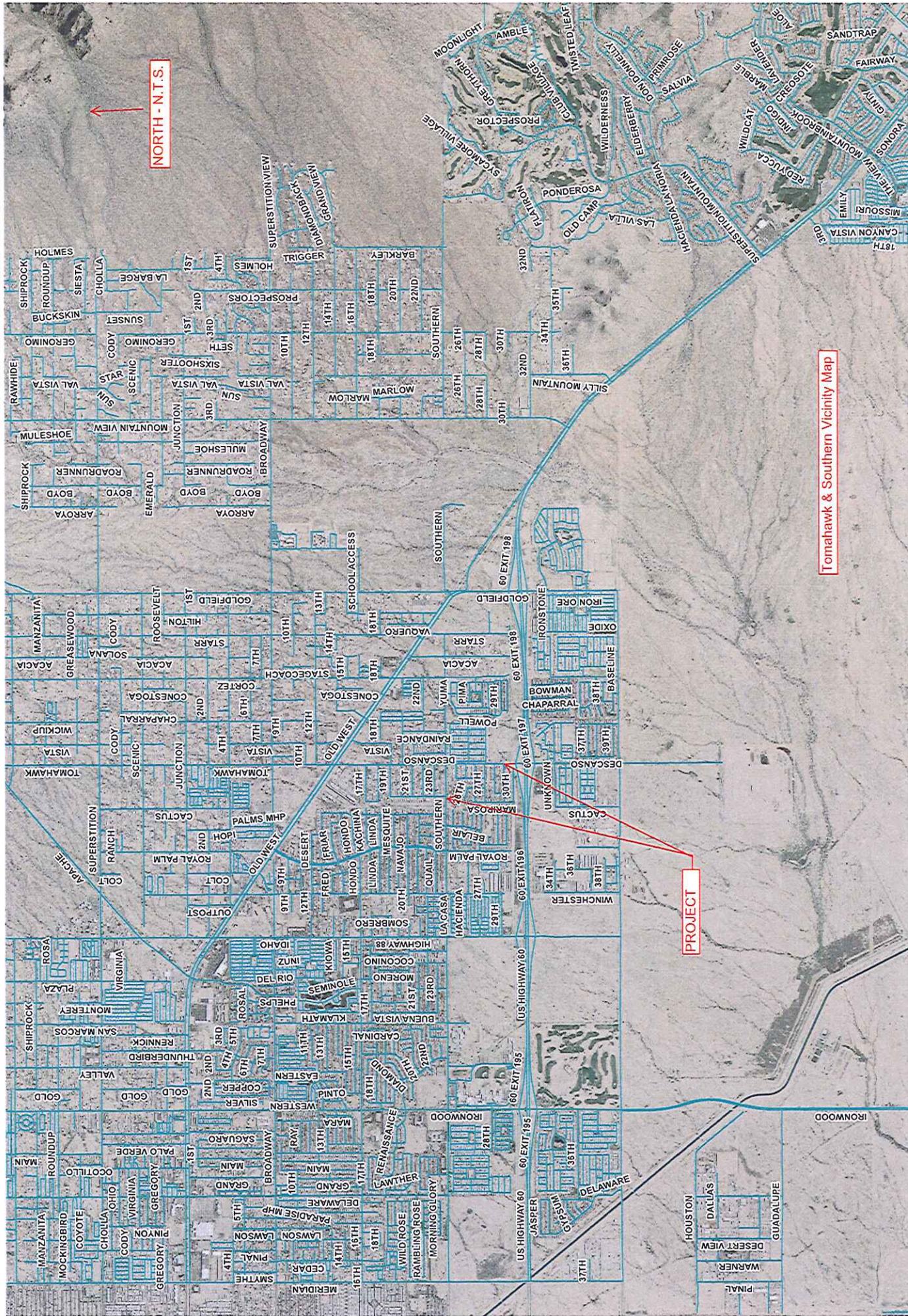
Tomahawk Road & Southern Avenue STP Application

Attachment 3 – Project Vicinity Map

PUBLIC WORKS DEPARTMENT

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NORTH - N.T.S.

Tomahawk & Southern Vicinity Map

PROJECT

Louis Andersen
Public Works Director

Scott Bender
County Engineer

Greg Stanley
County Manager



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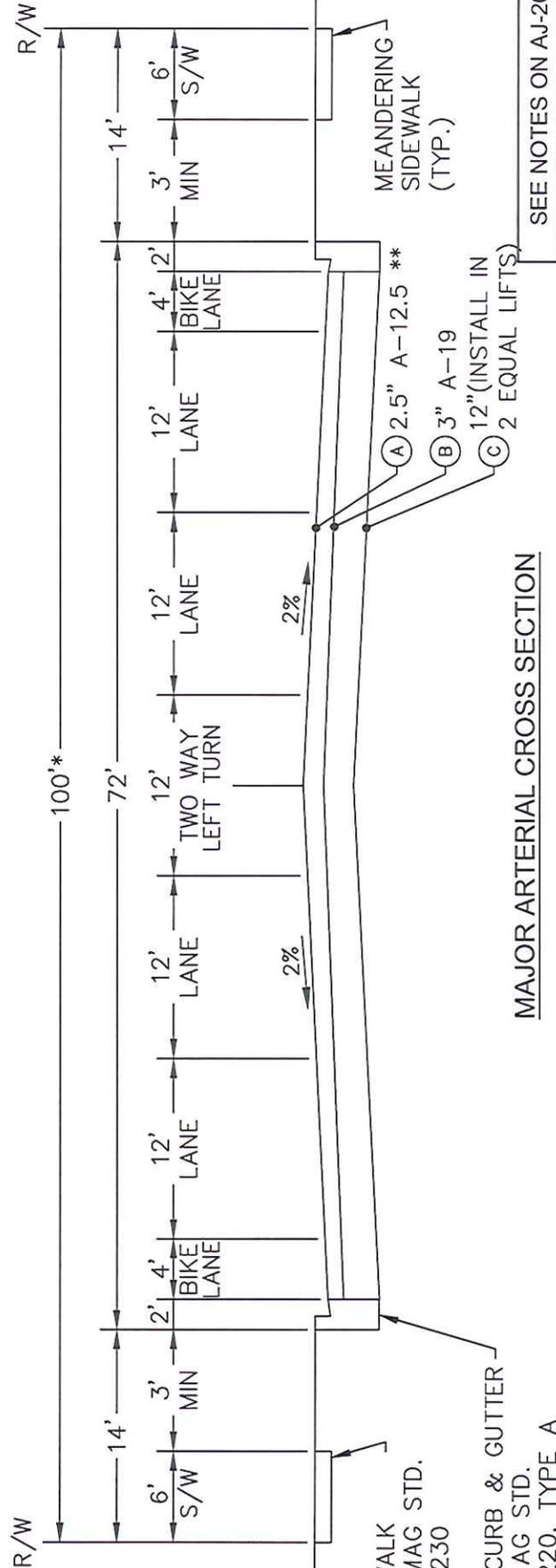
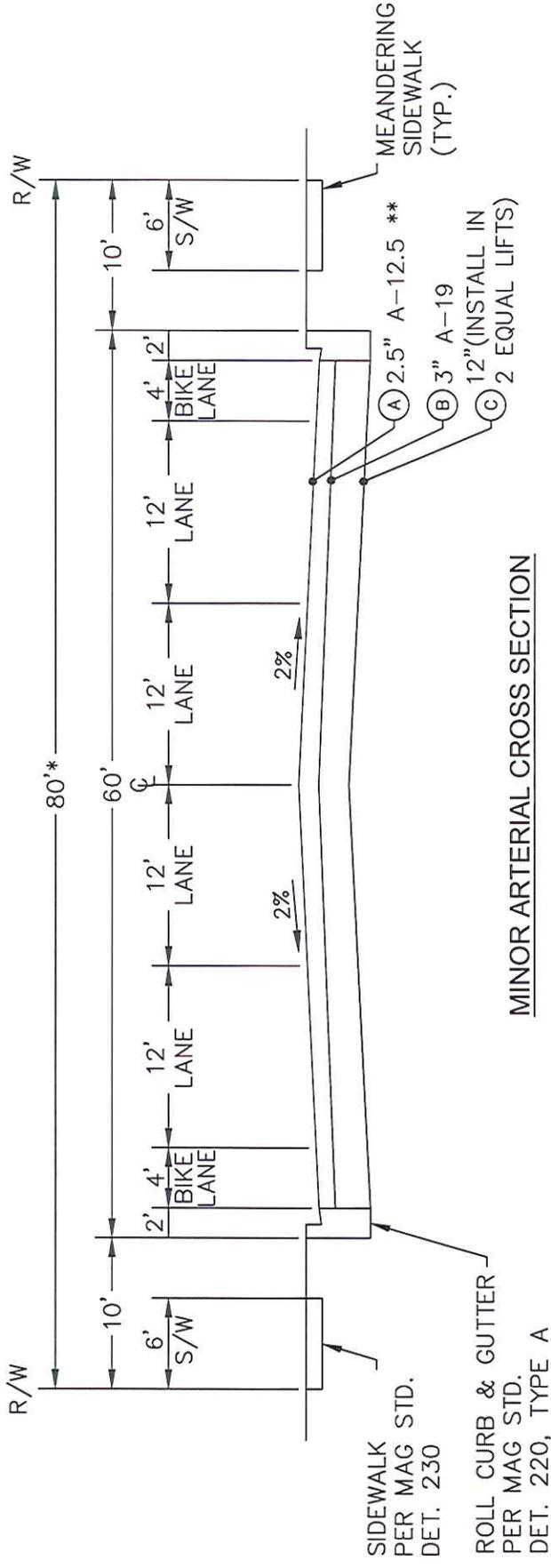
Tomahawk Road & Southern Avenue STP Application

Attachment 4 – Cross Section Diagram

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SEE NOTES ON AJ-20.1

DETAIL NO.
AJ-20.3

CROSS SECTIONS
ARTERIAL STREETS

CITY OF APACHE JUNCTION
STANDARD DETAIL

DETAIL NO.
AJ-20.3

Louis Andersen
Public Works Director

Scott Bender
County Engineer



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Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 5 – Photos

PUBLIC WORKS DEPARTMENT

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*Tomahawk Road (looking north)
between U. S. 60 and Southern
Avenue*



*Tomahawk Road (looking north)
approaching Southern Avenue*



*Southern Avenue (looking east) near
Mariposa Road*



*Southern Avenue (looking east)
approaching Tomahawk Road*

Louis Andersen
Public Works Director

Scott Bender
County Engineer



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Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 6 – Traffic Counts

PUBLIC WORKS DEPARTMENT

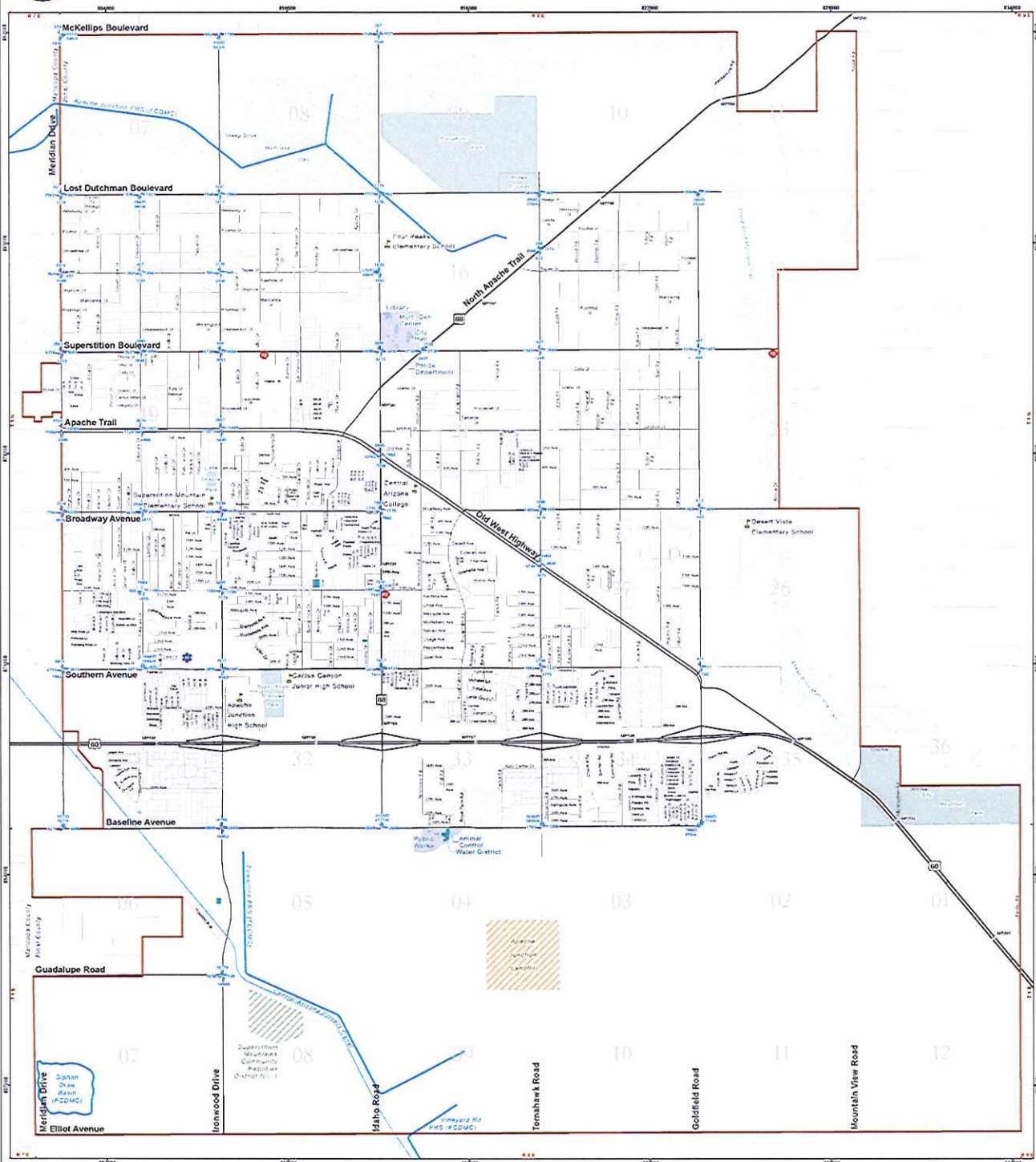
31 North Pinal Street, Building F, PO Box 727 Florence, AZ 85132

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CITY OF APACHE JUNCTION

PORTIONS OF TOWNSHIP 1 NORTH, RANGE 7 & 8 EAST AND TOWNSHIP 1 SOUTH, RANGE 8 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN



LEGEND

Traffic Count Summary

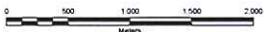
- ↔ Traffic Count Direction (Count reflects 24hr period)
- A - Approach
- D - Departure

Reference Information

- | | | |
|------------------------|-----------------------------|---|
| ⚙ Educational Facility | ⌄ Local | 🏢 City Facility |
| 🏥 Hospital | ⌄ Local - Private | 💧 Water District |
| 🚒 Fire Station | 🌊 Canal | 🌳 Parks and Recreation |
| 📍 Milepost (MP) | 🛑 Flood Restraint Structure | 🌫 Open space |
| 🛣 Highway/Freeway | 📏 Contour (20ft Interval) | 📏 Section Boundary |
| 🛣 Major Arterial | 📏 City Boundary | 🗑 Apache Junction Landfill |
| 🛣 Minor Arterial | 📏 Pinal County Area | 🏠 Superstition Mountains Community Facilities District No.1 |

Traffic Count - Winter 2013

June 06, 2013



Louis Andersen
Public Works Director

Scott Bender
County Engineer



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Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 7 – Crash Data

PUBLIC WORKS DEPARTMENT

31 North Pinal Street, Building F, PO Box 727 Florence, AZ 85132

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rsections. These are identified separately below.

ections:



3/26/2015 Safety Analysis Report

Results below are for crashes on Southern Ave between Tomahawk Rd and Mariposa Rd, excluding crashes

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	1	0	0	0	0	1
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						1

Crashes at Southern Ave and Tomahawk Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	5	2	0	0	0	7
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						14

Crashes at Southern Ave and Mariposa Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						0

Crash totals for the entire length of Southern Ave from Tomahawk Rd to Mariposa Rd, including all in

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	6	2	0	0	0	8
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						15

. at intersections. These are identified separately below.

intersections:



3/26/2015 Safety Analysis Report

Results below are for crashes on Southern Ave between Tomahawk Rd and Mariposa Rd, excluding crashes at intersections. These :

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	1	0	0	0	0	1
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						1

Crashes at Southern Ave and Tomahawk Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	5	2	0	0	0	7
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						14

Crashes at Southern Ave and Mariposa Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						0

Crash totals for the entire length of Southern Ave from Tomahawk Rd to Mariposa Rd, including all intersections:

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	6	2	0	0	0	8
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						15

Louis Andersen
Public Works Director

Scott Bender
County Engineer



PINAL COUNTY
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Greg Stanley
County Manager

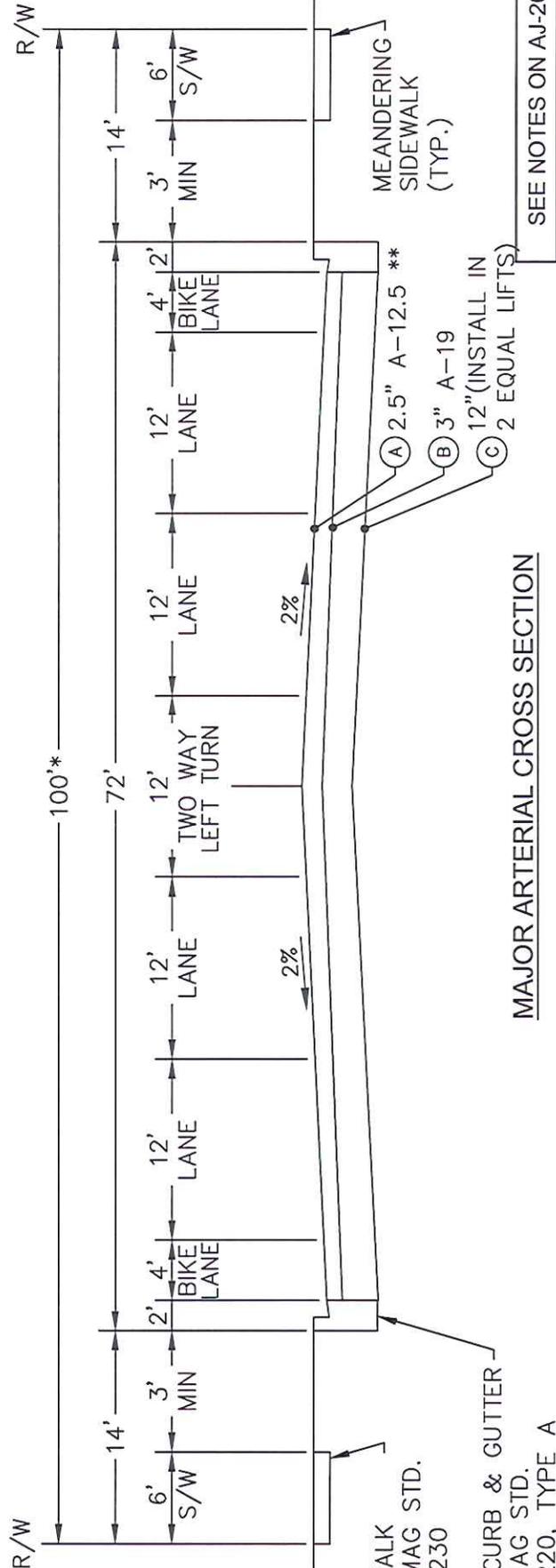
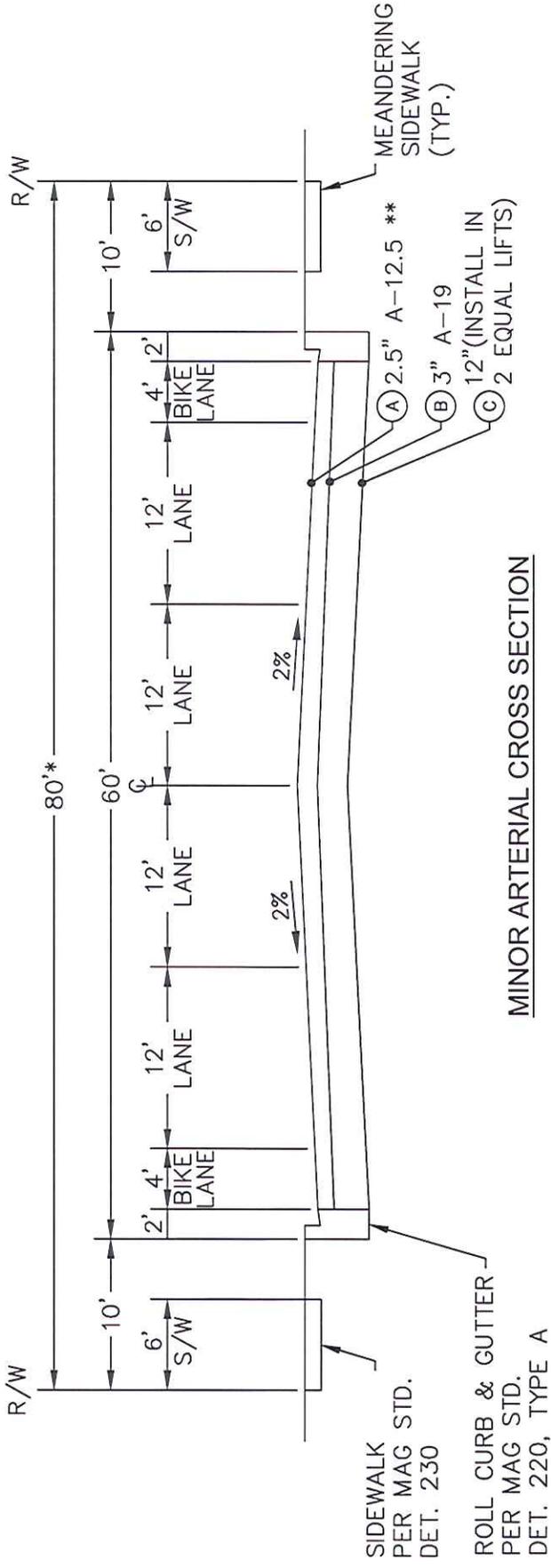
Tomahawk Road & Southern Avenue STP Application

Attachment 8 – Typical Cross Section

PUBLIC WORKS DEPARTMENT

31 North Pinal Street, Building F, PO Box 727 Florence, AZ 85132

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SEE NOTES ON AJ-20.1

DETAIL NO.
AJ-20.3

CROSS SECTIONS
ARTERIAL STREETS

CITY OF APACHE JUNCTION
STANDARD DETAIL

DETAIL NO.
AJ-20.3

Louis Andersen
Public Works Director

Scott Bender
County Engineer



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Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 9 – Intersection Photo

PUBLIC WORKS DEPARTMENT

31 North Pinal Street, Building F, PO Box 727 Florence, AZ 85132

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Alvarado Ave

Gerónimo Ln

© 2013 Google

33°23'36.26" N 111°31'43.12" W elev 1690



1992

Louis Andersen
Public Works Director

Scott Bender
County Engineer



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Greg Stanley
County Manager

Tomahawk Road & Southern Avenue STP Application

Attachment 10 – Crash Data

PUBLIC WORKS DEPARTMENT

31 North Pinal Street, Building F, PO Box 727 Florence, AZ 85132

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rsections. These are identified separately below.

actions:



3/26/2015 Safety Analysis Report

Results below are for crashes on Southern Ave between Tomahawk Rd and Mariposa Rd, excluding crashes

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	1	0	0	0	0	1
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						1

Crashes at Southern Ave and Tomahawk Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	5	2	0	0	0	7
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						14

Crashes at Southern Ave and Mariposa Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						0

Crash totals for the entire length of Southern Ave from Tomahawk Rd to Mariposa Rd, including all in

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	6	2	0	0	0	8
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						15

. at intersections. These are identified separately below.

intersections:



3/30/2015 Safety Analysis Report - Revised

Crashes at Tomahawk & Southern intersection

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	5	2	0	0	0	7
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						14

Crashes at Tomahawk & 29th Ave

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	0	0	0	0	0	0
2012	0	1	0	0	0	1
2013	2	0	0	0	0	2
						3

Crashes at Tomahawk & US 60

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	1	1	0	0	0	2
2012	1	1	0	0	0	2
2013	0	2	2	0	0	4
						8

Crash totals for the entire length of Tomahawk Road from Southern Ave to US 60, including crashes reported at the 3 inter:

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	6	3	0	0	0	9
2012	6	2	0	0	0	8
2013	3	2	3	0	0	8
						25

3/26/2015 Safety Analysis Report

Results below are for crashes on Southern Ave between Tomahawk Rd and Mariposa Rd, excluding crashes at intersections. These :

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	1	0	0	0	0	1
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						1

Crashes at Southern Ave and Tomahawk Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	5	2	0	0	0	7
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						14

Crashes at Southern Ave and Mariposa Rd - PINAL CO or Apache Junction

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
						0

Crash totals for the entire length of Southern Ave from Tomahawk Rd to Mariposa Rd, including all intersections:

Year	NoInjury	Possible Injury	Non- Incapacitating	Incapacitating	Fatal	Total
2011	6	2	0	0	0	8
2012	5	0	0	0	0	5
2013	1	0	1	0	0	2
						15