

August 14, 2017

TO: Members of the MAG Transportation Safety Committee

FROM: Dana Alvidrez, City of Chandler, Chair

SUBJECT: SPECIAL MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Thursday, August 17, 2017 - 11:00 a.m.
MAG Office Building, 2nd Floor, Palo Verde
302 North First Avenue, Phoenix

A meeting of the MAG Transportation Safety Committee will be held at the time and place noted above. Committee members or their proxies may attend **in person, via videoconference or by telephone conference call**. Those attending by video conference must notify the MAG site three business days prior to the meeting. Those attending by telephone conference call please contact MAG offices for conference call instructions.

Please park in the garage under the MAG building, bring your ticket, parking will be validated. For those using transit, Valley Metro/RPTA will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.

In 1996, the Regional Council approved a simple majority quorum for all MAG advisory committees. If the Transportation Safety Committee does not meet the quorum requirement, members who have arrived at the meeting will be instructed a legal meeting cannot occur and subsequently be dismissed. Your attendance at the meeting is strongly encouraged.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in its public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting MAG. Requests should be made as early as possible to allow time to arrange the accommodation.

If you have any questions regarding the meeting, please contact Sarath Joshua at (602) 254-6300.

TENTATIVE AGENDA

COMMITTEE ACTION REQUESTED

1. Call To Order

For the August 17, 2017 meeting, the quorum requirement is 10 committee members.

2. Approval of July 25, 2017 Meeting Minutes

3. Call to Audience

An opportunity will be provided to members of the public to address the Transportation Safety Committee on items not scheduled on the agenda that fall under the jurisdiction of MAG, or on items on the agenda for discussion but not for action. Members of the public will be requested not to exceed a three minute time period for their comments. A total of 15 minutes will be provided for the Call to the Audience agenda item, unless members request an exception to this limit. Please note that those wishing to comment on action agenda items will be given an opportunity at the time the item is heard.

4. FY2018 Road Safety Assessments (RSAs) and Project Assessments(PAs) Program

The FY2018 MAG Work Program includes a total of \$300,000 for the RSA and PA Program. At the July 25th meeting, the committee took action to recommend approval of a list of FY 2018 RSA and PA projects (Attachment One). The list included three (3) RSAs in the City of Phoenix. The list also included projects at 23 signalized intersections that will be examined through PAs for implementing positive left-turn offsets.

MAG has recently been informed by ADOT that, due to the high estimated benefit-cost ratios associated with left-turn offset improvement projects at these sites, they could

2. Review and approve the July 25, 2017, meeting minutes.

3. For information.

4. For information, discussion and possible action to recommend approval of an amended list of RSA and PA projects, for FY2018, to be carried out through MAG on-call contracts.

compete for FY2019-2020 HSIP funds. Based on input received from local agencies with sites on the original list, one intersection has been removed resulting in a total of 22 intersections.

It is proposed that the required HSIP project applications for the 22 sites be developed, instead of developing full PAs as recommended in the previous action. The reduced scope of PAs would also result in reduced costs for developing all HSIP applications through one on-call task order that is estimated to cost \$39,600. This would enable the submission of these HSIP applications to ADOT by the deadline of October 2nd, 2017.

This proposed change to previous action is reflected in the amended list of FY 2018 RSA and PA projects (Attachment Two). The committee will review, discuss and take possible action to recommend approval of the amended list of projects. The total estimated cost to perform RSAs and PAs is \$149,600, with 150,400 remaining to be programmed. The remaining funds can either be reprogrammed or carried forward to FY 2019.

5. Next Meeting

The next meeting is scheduled to be held on Tuesday, September 26, 2017 at 10:00 a.m. in the MAG Ironwood Room.

6. Adjournment

5. For information and discussion.

DRAFT MINUTES OF
MARICOPA ASSOCIATION OF GOVERNMENTS
TRANSPORTATION SAFETY COMMITTEE MEETING

July 25, 2017
Maricopa Association of Governments
Saguaro Room, Suite 200
302 N. 1st Ave,
Phoenix, AZ 85003

MEMBERS ATTENDING

- * Ned Ferris, AAA Arizona
- * Tom Burch, AARP
- Kerry Wilcoxon, ADOT
- Shane Kiesow, City of Apache Junction
- * Robert Gray, ASU
- Tom Peterson, City of Avondale
- Dana Alvidrez (Chair), City of Chandler
- # Nick Russo, City of El Mirage
- * Kelly LaRosa, FHWA
- # Rajnish Gupta, Town of Gilbert
- Kiran Guntupalli, City of Glendale
- # Alberto Gutier, GOHS
- # Hugh Bigalk, City of Goodyear
- Mike Gillespie, Litchfield Park
- Mazen Muradvich for Nicolaas Swart,
 Maricopa County
- Renate Ehm, City of Mesa
- * Jeremy Knapp, Town of Paradise Valley
- # Mannar Tamirisa for Jamal Rahimi,
 City of Peoria
- Carl Langford, City of Phoenix
- * George Williams, City of Scottsdale
- Dana Owsiany, City of Surprise
- Julian Dresang, City of Tempe
- # Sam Diggins for Adrian Ruiz, RPTA

OTHERS PRESENT

- Sarath Joshua, MAG
- Margaret Boone, MAG
- Micah Henry, MAG
- Eric Nava, MAG
- Randy Dittberner, Lee Engineering
- Maria Deeb, Mesa
- Young Koprowski, Y2K Engineering
- Mike Blankenship, AMECFW
- Sandy Thoms, Michael Baker
- Shanthi Krishnan, Jacobs
- Jim Shoen, Kittelson
- Andrew Kwasniack, Tatum Group
- Don Tappendorf, Michael Baker

- * Not present or represented by proxy
- # Participated by teleconference
- + Participated by videoconference

1. Call to Order

Chair Dana Alvidrez, called the meeting to order at 10:08 a.m.

2. Approval of May 23, 2017 Meeting Minutes

Chair Dana Alvidrez called for a motion to approve the May 23, 2017 meeting minutes. Shane Kiesow made a motion to approve as written, Mike Gillespie seconded and the motion passed unanimously.

3. Call to Audience

Chair Dana Alvidrez made a call to the audience providing an opportunity to members of the public to address the Transportation Safety Committee. None requested.

4. Program Manager's Report

Chair Dana Alvidrez requested Sarath Joshua to report on the items included in the Program Manager's Report.

- GOHS Funding Opportunity: Sarath Joshua invited Alberto Gutier, attending via teleconference, to provide information on the funding opportunity. An amount of \$900,000 from NHTSA is available as grants from GOHS with the goal of funding enforcement activities aimed at improving bicycle and pedestrian safety. GOHS has requested MAG to coordinate a Working Group for the MAG region to include members of the Transportation Safety and Bicycle and Pedestrian Committees, as well as local agency police department staff. The goal of the working group is to identify examples or develop guidelines for a Bike/Ped Safety Education and Enforcement Campaign that could be used by local agency PDs in developing GOHS grant applications. The Working Group meeting is anticipated to be held in August. Volunteers were requested.
- FY2019-2020 HSIP Programming: A workshop will be held after the Transportation Safety Committee meeting today. This workshop is provided for local agencies that want help developing HSIP project applications, or have questions regarding HSIP guidance or the programming process. As a reminder, the pre-review submittal deadline is August 3, 2017, with a final application submittal date of September 18th. The committee will take possible action to approve a list of FY2019-2020 HSIP projects on September 26th, 2017. MAG is required to forward applications to ADOT on October 2nd, 2017. An additional call for projects may be issued by ADOT in January 2018 for FY 2021-2022.
- 2017 Crossing Guard Workshops: Workshop dates are; Thursday July 27th in Phoenix, Tuesday August 1st in Peoria, and Thursday August 3rd in Mesa. Registration is nearly at 400 crossing guards to date. Workshop materials have been updated based on survey responses from the 2016 workshops and are available for download on the MAG webpage. New planning team members are welcome to join the current team of staff from MAG, Gilbert, Glendale, Peoria, Phoenix, Mesa, Scottsdale, Surprise, and Tempe.
- MAG has received notification for approval by ADOT to administer TA SRTS Studies projects. ADOT will still administer the TA SRTS Support Activity type projects. Jennifer Henderson is the new ADOT project administrator for those projects. Scopes for FY 2018 projects are currently being coordinated with the City of Avondale for five schools, the Town of Florence for two schools and the City of

- Surprise for three schools. Sarath Joshua noted that this is based on a request from ADOT to run these projects through the MAG process for use of MAG on-call consultants in order to expedite the process. MAG developed a fact sheet provided as a handout at the meeting. The fact sheet provides information on what a SRTS study is and what it means for local agencies, schools and school districts under MAG administration.
- STP Safety Evaluation Criteria: This effort is based on 2015 MAG STSP Strategy to include safety as explicit project evaluation criteria for all TIP projects. The CMAQ and TA Infrastructure projects (ITS and Bike & Ped) included safety evaluation criteria for the first time during the last programming cycle. Surface Transportation Program (STP) programming safety evaluation criteria was, at the time, tabled until this current cycle. MAG staff queried the CMF Clearinghouse for compiling a list of approximately 40 countermeasures with 4 and 5 Star ratings. These countermeasures were used to develop a list of elements for consideration to include in arterial roadway, intersection, and bridge projects within the MAG planning area of Pinal County currently being programmed. A Methodology will be developed to apply a safety weight for projects that include countermeasures from the established list. This will be applied in a streamlined format to include the safety weight into the application form for the appropriate countermeasure chosen. This round is for projects in Pinal County. However, moving forward the safety evaluation criteria as a template could be used when programming ALCP or future STP funding in whatever form that could take with prop 500 funds throughout the MAG region.

5. FY2018 RSA and PA Location Selection

Chair Dana Alvidrez introduced the item on the agenda for information, discussion, and possible action, and invited Sarath Joshua and Margaret Boone to provide a presentation. Ms. Boone provided a brief overview of the data driven process used to identify RSA and PA locations. A working group discussed the data analysis done for each location identified by local agencies based on the 2011-2015 Top 100 intersections ranked by crash risk. This list was initially provided to the committee in November 2016. Five locations identified by the City of Phoenix were reviewed by the working group. As a result, three RSA locations have been recommended, as well as five PAs at 33 locations based on findings of the left-turn mitigation study, currently underway. The City of Glendale, Peoria, and Phoenix provided input on locations included in the list of PAs and removed 10 locations. Kerry Wilcoxon made a suggestion that the committee consider moving ahead with developing HSIP applications for these locations and do the design under that process. The concern is that doing PAs in the fall and submitting applications for the next cycle would result in these effective safety improvements not being funded until 2021. The committee could still take action on the list of PAs and in the interim, a discussion could be held to come up with a strategy to move directly towards development of HSIP requests for FY 2019. Julian Dresang noted that for the \$170,000 dollar amount estimated for these projects that it may be more reasonable for the improvements to be done with local dollars, eliminating all the clearance effort, etc., associated with an HSIP project. Kerry Wilcoxon also suggested, in response to Mr. Dresang that grouping several locations would reduce some of these burdens of the federal process. Dana Alvidrez requested a motion for the action requested on this agenda item. Kiran Guntupalli made a motion to **recommend approval of the list of three RSAs and 23 PAs, pending local agency approval, for FY 2018, to be carried out by MAG on-call consultants.** Kerry

Wilcoxon seconded the motion and the item passed unanimously. Regarding the next task for the Systemic Strategy to Mitigate Intersection Left-turn Crashes, the second deliverable of the Template and Guidance document will be distributed to the committee and affected local agencies. Please provide your review and comments when that is received.

6. Local Agency Safety Studies Program

Chair Dana Alvidrez invited Sarath Joshua to present this item for information and discussion. Mr. Joshua stated that this new MAG program to conduct road safety studies for local agencies to be carried out through MAG On-Call consultant contracts. This program was developed based on request for technical assistance for examining specific road safety issues and concerns identified by local agencies. The program is included in the FY2018 UPWP program approved by the MAG Regional Council in May, 2017 with a budget of \$200,000. A working group was convened to develop the Program Criteria, Goals and Objectives, provided in Attachment Two of the agenda packet. A method of nominating and recommending a list of studies projects was also established by the working group. A demonstration was provided of the draft application included as Attachment Three. The next steps will be to develop evaluation criteria. A Call for project applications is anticipated in August, 2017, at which time a list of projects will be generated for possible recommendation in September, based on applications received by the submittal deadline.

7. Programming of New SRTS Projects

Chair Dana Alvidrez invited Sarath Joshua to present this item for information and discussion. Mr. Joshua requested that Margaret Boone, provide the presentation. Ms. Boone stated that the FAST Act, Surface Transportation Block Grants (STBG) as the funding source for the Transportation Alternative (TA) program and Non-Infrastructure SRTS projects. Funds are available in the amount of \$400,000 for each FY2021 & 2022. A brief overview of how SRTS projects will be programmed within the MAG TIP programming process was provided. Priority One: SRTS Studies for a total available amount of \$300,000 with a \$100,000 maximum per application per program year. Priority Two: Support Activity projects for a total available amount of \$100,000 with a \$50,000 maximum per application per program year. Local agencies should submit as the applicant, with school officials (required) and partners (optional) signing in support of the project application. Applications should be submitted electronically and will then be sent to TSC in early October for evaluation and scoring. Project presentations will be heard at the November meeting for possible action to recommend a list of projects to be programmed in FY2021-2022. The MAG Approval process, including the MAG TIP amendment required, will be completed in January through February 2018. Two workshops will be held during the development phase to answer questions and assist with application development. New elements to be included this year will be the administration of the Studies projects by MAG. This will eliminate the need for IGAs between ADOT and local agencies as well as elimination of the review fee. Support Activity type projects will still be administered by ADOT.

8. Highway Safety Manual, 2nd Edition

Chair Dana Alvidrez introduced Jim Shoen from Kittelson and Associates for a presentation on this item on the agenda for information and discussion. Mr. Shoen stated

that the HSM2 development is on-going, as is much of the contributing safety research, what is being shared is the current best estimate of what will be included. However, content could be different by the time of the actual publication. Some background of the HSM was provided; The HSM represents a different way of thinking about highway safety as a quantitative approach. The First Edition approved and published by AASHTO in 2010, and the NCHRP 17-71 began in 2015 for development of Second Edition. This effort was led by Kittelson & Associates with Texas A&M Transportation Institute. Goal of Transportation Safety Management Plans is to eliminate preventable transportation-related fatalities and injuries, generally with a four-step process: Crash Analysis, Network Screening, Diagnosis and Project Development/Prioritization. On-going safety research includes: Part A - Fundamentals, as NCHRP Project 17-50, Lead States Initiative for Implementing the HSM, NCHRP 17-6, Benefit-cost Methodology for Behavioral Highway Safety Countermeasures, and Part B – Safety Management NCHRP Project 17-73, and Systemic Pedestrian Safety Analysis. Part C includes on-going research for several predictive methods including: six-lane and one-way urban/suburban arterials, improved models for crash types and severities, intersection crashes, and roundabout crash prediction models. Part D includes research on crash modification factors, development, calibration for local conditions and application of multiple CMFs. In addition, various tools updates, including spreadsheet tools, the IHSDM, an interchange safety analysis tools for freeways are planned for development. Sarath Joshua inquired as to if in the behavioral safety countermeasure research will look at development of CMFs for enforcement activities. Mr. Shoen stated that research is mainly geared towards identifying a cost benefit to seat belt use and similar countermeasures.

9. Reports by Committee Members on Transportation Safety Activities

Chair Dana Alvidrez requested reports from committee members on transportation safety related activities at local agencies. Kerry Wilcoxon reported that the 2016 ADOT Crash Facts, which now includes an executive summary, are now available on the ADOT webpage. Mr. Wilcoxon also announced the August 1st Safety Data Users Group meeting and provided a copy of the draft crash report form for discussion at that meeting. In addition ADOT will be providing a presentation on the updated safety data mart at a date to be announced in the near future. The City of Tempe reported on their roundabout and HAWK projects to be underway shortly. The Tempe HSIP improvement project will begin construction in winter 2017 or spring 2018. Julian Dresang noted a well written story in the July 23rd East Valley Tribune on east valley cities efforts to improve intersection safety. The article also quotes MAG safety initiatives. The City of Glendale's safety improvement project at 59th and Olive should be complete in October. Mazen Muradvich noted updates to the Roadside Safety Guardrail System. Carl Langford reported on two HAWK projects at 21st and Clarendon and at 7th and Fillmore in the City of Phoenix. Rajnish Gupta reported on the conversion of lagging to leading left-turn phasing at several intersections; future safety evaluation will be conducted after sufficient data can be collected. Sarath Joshua noted that the MAG response to the request for information for rescinding the Clearview font approval by FHWA has been highlighted by a Texas Senator who plans on addressing the issue at the federal level. The RTSIMS software is now online and there are 10 agencies with access to the software. MAG also provided a demonstration to ADOT a couple of weeks ago.

10. Request for Future Agenda Items

Chair Dana Alvidrez requested suggestions from the committee on future agenda items. None heard.

11. Next Meeting

Chair Dana Alvidrez stated that the next meeting is scheduled for Tuesday, September 26, 2017 at 10:00 a.m. in the Ironwood Room.

12. Adjournment

Chair Dana Alvidrez adjourned the meeting at 11:28 a.m.

Recommended List of FY2018 RSA PA Locations
July 25th, 2017 TSC Action

Project No.	Project Type	Agency	MAG/Agency Intersection Rank 2011-2015	Location	Estimated Cost
1	RSA	Phoenix	5	THOMAS RD & CENTRAL AVE	\$ 35,000.00
4	RSA	Phoenix/Glendale	21 from 74	PEORIA AVE & 43RD AVE	\$ 35,000.00
2	RSA	Phoenix	22	MCDOWELL & 32ND ST	\$ 40,000.00
			44	THOMAS & 32ND ST	
3	PA	Avondale Goodyear	28.2	VINEYARD RD & 51ST AVE	\$ 32,000.00
			28.2	VAN BUREN ST & DYSART RD	
			28.2	YUMA RD & LITCHFIELD RD	
			56.5	WIGWAM BLVD & LITCHFIELD RD	
4	PA	Chandler Maricopa (City) Pinal County	56.5	PECOS RD & EMMETT DR	\$ 40,000.00
			32.1	WARNER RD & EVERGREEN ST	
			30.2	PRICE RD & GERMANN RD	
			28.2	HONEYCUTT RD & GLENNWILDE DR	
			28.2	GANTZEL RD & COMBS RD	
5	PA	Gilbert Queen Creek	34.1	WARNER RD & LINDSAY RD	\$ 32,000.00
			32.1	VAL VISTA DR & LAKESIDE DR	
			30.2	RAY RD & GILBERT RD	
			32.1	RITTENHOUSE RD & OCOTILLO RD	
6	PA	Glendale Phoenix	30.2	PEORIA AVE & 63RD AVE	\$ 40,000.00
			28.2	GRAND AVE & 57TH DR	
			32.1	PEORIA AVE & 43RD AVE	
			30.2	BELL RD & 7TH AVE	
			30.2	GREENWAY PKWY & 16TH ST	
7	PA	Phoenix Scottsdale Cave Creek	60.4	SCOTTSDALE RD & OSBORN RD	\$ 40,000.00
			28.2	SCOTTSDALE RD & GOLD DUST AVE	
			30.2	GREENWAY RD & 40TH ST	
			28.2	GREENWAY RD & 29TH ST	
			32.1	CAVE CREEK RD & CAREFREE HWY	

Total Estimated Cost	\$ 294,000.00
Total Amount Available	\$ 300,000.00
	\$ 6,000.00

Amended - List of FY2018 RSA and PA Projects

Project No.	Project Type	Agency	MAG/Agency	Location	Estimated Cost
			Intersection Rank 2011-2015		
1	RSA	Phoenix	5	THOMAS RD & CENTRAL AVE	\$ 35,000.00
2	RSA	Phoenix/Glendale	21	PEORIA AVE & 43RD AVE	\$ 35,000.00
3	RSA	Phoenix	22	MCDOWELL & 32ND ST	\$ 40,000.00
			44	THOMAS & 32ND ST	
Project No.	Project Type	Agency	LT Study Prelim B/C Ratio	Location	Estimated Cost
4	PA	Phoenix	28.2	VINEYARD RD & 51ST AVE	\$ 39,600.00
			32.1	PEORIA AVE & 43RD AVE	
			30.2	BELL RD & 7TH AVE	
			30.2	GREENWAY PKWY & 16TH ST	
			30.2	GREENWAY RD & 40TH ST	
			28.2	GREENWAY RD & 29TH ST	
		Avondale Cave Creek Glendale Gilbert Goodyear Pinal County Queen Creek	28.2	VAN BUREN ST & DYSART RD	
			28.2	YUMA RD & LITCHFIELD RD	
			56.5	WIGWAM BLVD & LITCHFIELD RD	
			28.2	GANTZEL RD & COMBS RD	
			34.1	WARNER RD & LINDSAY RD	
			32.1	VAL VISTA DR & LAKESIDE DR	
			30.2	RAY RD & GILBERT RD	
			32.1	RITTENHOUSE RD & OCOTILLO RD	
			30.2	PEORIA AVE & 63RD AVE	
			28.2	GRAND AVE & 57TH DR	
			32.1	CAVE CREEK RD & CAREFREE HWY	
			Chandler	56.5	
		32.1		WARNER RD & EVERGREEN ST	
		30.2		PRICE RD & GERMANN RD	
Scottsdale	60.4	SCOTTSDALE RD & OSBORN RD			
	28.2	SCOTTSDALE RD & GOLD DUST AVE			

Total Estimated Cost	\$	149,600.00
Total Amount Available	\$	300,000.00
Amount Remaining	\$	150,400.00

Project No.	Project Type	Agency	MAG/Agency Intersection Rank 2011-2015	Location
1	RSA	Phoenix	5	THOMAS RD & CENTRAL AVE
2	RSA	Phoenix/Glendale	21	PEORIA AVE & 43RD AVE
3	RSA	Phoenix	22	MCDOWELL & 32ND ST
			44	THOMAS & 32ND ST
Project No.	Project Type	Agency	LT Study Prelim B/C Ratio	Location
4	PA	Phoenix	28.2	VINEYARD RD & 51ST AVE
			32.1	PEORIA AVE & 43RD AVE
			30.2	BELL RD & 7TH AVE
			30.2	GREENWAY PKWY & 16TH ST
			30.2	GREENWAY RD & 40TH ST
			28.2	GREENWAY RD & 29TH ST
		Avondale Cave Creek Glendale Gilbert Goodyear Pinal County Queen Creek	28.2	VAN BUREN ST & DYSART RD
			28.2	YUMA RD & LITCHFIELD RD
			56.5	WIGWAM BLVD & LITCHFIELD RD
			28.2	GANTZEL RD & COMBS RD
			7.8	PECOS RD & HIGLEY RD
			32.1	VAL VISTA DR & LAKESIDE DR
			9.7	HIGLEY RD & GERMANN RD
			32.1	RITTENHOUSE RD & OCOTILLO RD
			30.2	PEORIA AVE & 63RD AVE
			28.2	GRAND AVE & 57TH DR
			32.1	CAVE CREEK RD & CAREFREE HWY
			Chandler	56.5
		32.1		WARNER RD & EVERGREEN ST
		30.2		PRICE RD & GERMANN RD
Scottsdale	60.4	SCOTTSDALE RD & OSBORN RD		
	28.2	SCOTTSDALE RD & GOLD DUST AVE		

Total Estimated Cost
Total Amount Available

Amount Remaining

Estimated Cost

\$	35,000.00
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\$	35,000.00
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\$	40,000.00
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Estimated Cost	
\$	39,600.00

\$ 149,600.00

\$ 300,000.00

\$ 150,400.00