

MARICOPA ASSOCIATION OF GOVERNMENTS

INFORMATION SUMMARY... for your review

DATE:

April 5, 2011

SUBJECT:

Road Safety Assessments at Intersections

SUMMARY:

Each year more than 60,000 crashes occur on the local and arterial street system in the MAG region. About half of these crashes occur at intersections. They result in a total of nearly 30,000 injuries and fatalities each year. The MAG Transportation Safety Committee (TSC) has recommended Road Safety Assessments (RSAs) as a regional initiative to help identify and address safety issues at intersections. A Road Safety Assessment is a formal safety performance examination of the road facility. It is carried out by a small multi-disciplinary RSA team, typically made up of traffic engineers, road designers, law enforcement officers and human factors experts. The Arizona DOT has been conducting RSAs across the state for more than three years. The RSA initiative at MAG is being developed with guidance from Arizona DOT's RSA Program.

Based on a prior MAG action, a total of \$398,000 is available for conducting RSAs, utilizing qualified MAG on-call consultants, and with assistance from the Arizona DOT. In preparation for this regional initiative, a two-day hands-on RSA workshop was co-sponsored by FHWA and MAG and held in December 2010. The workshop was attended by local agency staff and the on-call consultants.

The MAG TSC has recommended a list of 23 intersections for the first cycle of RSAs to be performed. Currently, all requests from MAG member agencies are being recommended for funding. It was also recommended that RSAs be prioritized using the MAG Rank based on intersection crash risk, in case the funds available are insufficient to address all 23 locations. The list of intersections recommended for RSA was generated considering:

- (1) intersections nominated by MAG member agencies from the MAG Top 100 list of high crash risk intersections, and
- (2) other intersections nominated by MAG member agencies based on crash history or observed safety/risk concerns.

The compilation of the Top 100 list of high crash risk intersections was based on crash statistics for the years 2006, 2007 and 2008. Many intersections that appear on this list have already been addressed by the respective local agencies or are scheduled for improvements.

PUBLIC INPUT:

None has been received.

PROS & CONS:

PROS: The performance of RSAs at the selected intersections will help identify safety improvements that local agencies could include as a part of planned street improvements or seek additional federal funds. RSAs are considered a proactive step toward addressing road safety issues.

CONS: None.

TECHNICAL & POLICY IMPLICATIONS:

TECHNICAL: This is the first time RSAs are being performed at this scale in the MAG region. Technical support from Arizona DOT will be key to the success of this program. The participation of local agency staff in each multi-disciplinary RSA team will be essential.

POLICY: The reports with recommendations from RSAs will be provided to local agencies with the recommendation that the agency prepare and, keep on file, a response to each RSA recommendation along with a planned timeline for implementation and potential funding sources.

ACTION NEEDED:

Recommend approval of the list of 23 intersections, prioritized based on MAG Crash Risk Rank, for performing Road Safety Assessments.

PRIOR COMMITTEE ACTIONS:

The MAG Transportation Review Committee unanimously approved recommendation of the list of 23 intersections for performing RSAs, prioritized based on MAG Intersection Crash Risk Rank, on March 30, 2011.

MEMBERS ATTENDING

- Peoria: David Moody
- ADOT: Steve Hull
- * Avondale: David Fitzhugh
- * Buckeye: Jose Heredia for Scott Lowe
- Chandler: Dan Cook for Patrice Kraus
- * El Mirage: Lance Calvert
- Fountain Hills: Randy Harrel
- Gila Bend: Eric Fitzer
- * Gila River: Doug Torres
- * Gilbert: Tami Ryall
- Glendale: Terry Johnson
- Goodyear: Cato Esquivel
- * Guadalupe: Gino Turrubiarres
- * Litchfield Park: Woody Scoutten
- Maricopa County: Clem Ligocki for John Hauskins
- Mesa: Jeff Martin for Scott Butler
- Paradise Valley: Bill Mead
- Phoenix: Wylie Bearup for Rick Naimark
- Queen Creek: Kevin Johnson for Tom Condit
- RPTA: Bob Antilla for Bryan Jungwirth
- Scottsdale: Dave Meinhart
- Surprise: Bob Beckley
- Tempe: Robert Yabes for Chris Salomone
- Valley Metro Rail: John Farry
- * Wickenburg: Rick Austin
- Youngtown: Grant Anderson for Lloyce Robinson

EX-OFFICIO MEMBERS ATTENDING

- * Street Committee:
- * ITS Committee: Nicolaas Swart, Maricopa County
- * Bicycle/Pedestrian Committee: Peggy Rubach
- Transportation Safety Committee: Julian Dresang, City of Tempe

* Members neither present nor represented by proxy. + Attended by Videoconference
Attended by Audioconference

The MAG Transportation Safety Committee reviewed the list of candidate intersections and unanimously approved recommendation of the list of 23 intersections for performing RSAs, prioritized based on MAG Intersection Crash Risk Rank on March 22, 2011.

MEMBERS ATTENDING

- Tempe: Julian Dresang (Chair)
- * AAA Arizona: Linda Gorman
- AARP: Tom Burch
- ADOT: Kohinoor Kar
- Apache Junction: Shane Kiesow
- Avondale: Margaret Boone-Pixley
- Buckeye: Thomas Chlebanowski for Paul Ward
- * Chandler: Martin Johnson
- El Mirage: Jorge Gastelum
- Gilbert: Kurt Sharp
- Goodyear: Hugh Bigalk
- FHWA: Kelly LaRosa
- Glendale: Chris Lemka
- * Maricopa County: ?? for Chris Plumb
- Mesa: Maria Deeb for Renate Ehm
- * Paradise Valley: William Mead
- + Peoria: Jamal Rahimi
- * Phoenix: Joe Perez for Kerry Wilcoxon
- Scottsdale: Paul Porell
- * ValleyMetro: Gardner Tabon
- # Surprise: Tracy Eberlein

* Members neither present nor represented by proxy. + Attended by Videoconference
Attended by Audioconference

CONTACT PERSON:

Sarath Joshua, MAG, (602) 254-6300.

List of Intersections Recommended for Road Safety Assessment

	Agency	MAG Rank	Intersection Cross Streets
1	Phoenix	6	Union Hills Dr & 7th St
2	Peoria/Glendale*	10	Union Hills Dr & 83rd Ave
3	Tempe	12	University Dr & Rural Rd
4	Scottsdale	23	Hayden Rd & Chaparral Rd
5	Tempe	31	Hardy Dr & Baseline Rd
6	Tempe	32	Southern Ave & Rural Rd
7	Tempe	60	Rural Rd & Broadway Rd
8	Phoenix	72	Van Buren St & 33rd Ave
9	Maricopa County	86	Estrella & 51st Avenue
10	Phoenix	92	Sweetwater Ave & Cave Creek Rd
11	Gilbert	151	Guadalupe Rd. & Gilbert Rd
12	Scottsdale**	291	90th St. & Shea Blvd
13	Scottsdale	299	Scottsdale Rd. & Thomas Rd
14	Scottsdale**	333	92nd St. & Shea Blvd
15	Avondale	342	Dysart Rd. & McDowell Rd
16	Scottsdale	431	Scottsdale Rd. & Shea Blvd
17	Scottsdale	729	Scottsdale Rd. & Chaparral Rd
18	Peoria	933	83rd Ave & Deer Valley Rd
19	Buckeye	2519	Apache Rd. & Southern Ave
20	Buckeye	2976	Miller Rd. & Southern Ave
21	Buckeye	3601	Watson Rd. & Broadway Rd
22	Buckeye	7708	Miller Rd. & Baseline Rd
23	Litchfield Park	None	Litchfield Greens Rd & Litchfield Rd

* The south leg of this intersection is in Glendale

** These two locations will be combined into a single RSA project

MAG Network Screening Methodology - Top 100 Intersection Crash Locations Using 2006, 2007 & 2008 Crash Data

