

MEETING MINUTES FROM THE
MARICOPA ASSOCIATION OF GOVERNMENTS
STANDARD SPECIFICATIONS AND DETAILS COMMITTEE

January 8, 2014

Maricopa Association of Governments Office, Ironwood Room
302 North First Avenue
Phoenix, Arizona

AGENCY MEMBERS

Jim Badowich, Avondale, Vice Chair
Craig Sharp, Buckeye (proxy)
Warren White, Chandler
Antonio Hernandez, El Mirage
Wayne Costa, Florence
Tom Condit, Gilbert
Mark Ivanich, Glendale
Bob Herz, MCDOT
Bob Draper, Mesa

* Dan Nissen, Peoria
Syd Anderson, Phoenix (St. Trans.)
Jami Erickson, Phoenix (Water)
Rodney Ramos, Scottsdale
Jason Mahkovtz, Surprise
Tom Wilhite, Tempe, Chair
Harvey Estrada, Valley Metro
* Gregory Arrington, Youngtown

ADVISORY MEMBERS

Jeff Benedict, ARPA
* Slade Ottney, NUCA
Bill Davis, NUCA (proxy)
Adrian Green, AGC
Brian Gallimore, AGC

Jeff Hearne, ARPA
Peter Kandarlis, Independent
Paul R. Nebeker, Independent
Jacob Rodriguez, SRP

MAG ADMINISTRATIVE STAFF

Gordon Tyus

* Members not attending or represented by proxy.

GUESTS/VISITORS

Arturo Chavarria, Hanson
Ed Diggs, Cues, Inc.
Mike Hook, ACPA
Arvid Veidmark, Specialized Services Co.
Stew Waller, Rinker

1. Call to Order

Chair Tom Wilhite called the meeting to order at 1:32 p.m.

2. Call to the Audience

Chair Wilhite opened the call to the audience. No members of the audience requested to speak.

3. Approval of Minutes

The members reviewed the September 4, 2013 meeting minutes. Jami Erickson introduced a motion to accept the minutes as written. Bob Herz seconded the motion. A voice vote of all ayes and no nays was recorded.

4. Presentation on Laser Profiling

Mike Hook of the American Concrete Pipe Association and member of the Water/Sewer working group introduced Ed Diggs of Cues, Inc. to give a presentation on laser profiling of sewer/storm lines and other inspection technologies.

Mr. Diggs introduced himself and his company Cues, Inc. He said they had been in the business for 50 years. He gave a PowerPoint presentation showing how laser profiling can detect excess deflection and other problems such as corrosion in pipes that can be missed with typical video inspections. He said it was now common for agencies to do an inspection before and after the pipe is backfilled.

He also discussed new technologies such as Light Imaging Distance and Radar (LIDAR) techniques that can find defects more accurately in large diameter pipes (36" and up). He described the actual products and software that can graph the pipe in 3D and integrate with asset management programs. He said they can even do accurate mapping of the lines to check against as-built plans.

A new technique can use pipe penetrating radar to find defects and voids on the other side of the pipe. This can help identify issues before they become larger problems. He answered questions from the committee and said the equipment for laser profiling can be purchased for around \$30,000. A copy of the presentation can be downloaded from the MAG meeting webpage: <http://www.azmag.gov/Events/Event.asp?CMSID=5593>.

Carry Forward 2013 Cases

5. Case 13-15: Revisions to MAG Sections 603, 615 and 618 for Flexible Pipe.

Update pipe installation requirements to allow for flexible pipe types. Warren White said that the summary memo from the September meeting was included in the packet and is still valid. He said the group working on this case has been reworking the text and narrowing options in Sections 601 and 603. He noted there were changes in the members from Contech. He said in

November he received updated materials and comments from Maricopa County. Though they have been working on revisions, they are not quite ready for the committee. He wants to review them with the group working on the case as well as the Water/Sewer Working Group. He said there were some dependencies such as testing that Jami Erickson from Phoenix proposed working on. He hoped to have updated materials ready for the February meeting.

6. Case 13-21: Create a new Section 742 Pre Cast Manhole Bases. Add detail drawings for construction and installation.

Create a new section and details for pre-cast manhole bases. Craig Sharp said they are updating the current manhole details, but lost their CAD operator who was working on them. Bob Draper of Mesa volunteered to help make the CAD corrections. Mr. Sharp thanked him for the assistance.

7. Case 13-22: Update Sections 625 and 775 to remove references to the use of bricks in manholes and remove references to manhole steps.

Update Sections 625 Manhole Construction to remove references to the use of bricks and manhole steps. Also remove these references in Section 775 Brick and Concrete Masonry Units. Mr. Sharp said this case goes with the previous one and also has not been updated since the last revision.

New Cases for 2014

8. Case 14-01: Miscellaneous Corrections.

A. Change "transverse" to "longitudinal" in Section 321.8.2. Rod Ramos proposed making this change. After a discussion with Bob Herz, they determined that the word choice was an error and should be written as: "Longitudinal Joints of each course shall be staggered at a minimum of 6 inches with relation to the longitudinal joint of the immediate underlying course cold **longitudinal** construction joint."

9. Case 14-02: Revisions to Section 405 Monuments.

Update specifications to match current details and requirements. Bob Herz noticed that some of the specifications on monuments needed to be updated to match the revised detail and current requirements. The case shows his proposed revisions to Section 405. He asked for members to review it and send him any comments.

10. Case 14-03: Updates to Guardrail Details.

Make revisions to Section 415 and/or include guardrail details in MAG. Bob Herz said Maricopa County will change to the 31" high (instead of 28") guardrails beginning in 2015. This is based on a recommendation from FHWA. This memo has been posted online here: <http://www.azmag.gov/Events/Event.asp?CMSID=5593>

Since MAG currently refers to the County details, MAG will need to either update the specifications to match the new County details, or add the existing County details into the MAG details. The County will be moving to the Midwest Guardrail System that has splice points located between posts. It is still a strong post system, but with the splice points located between the posts the W-beam is less prone to tearing.

Brian Gallimore asked about retrofitting systems, saying that ADOT has moved to adopt the 31" height and there has been difficulty trying to integrate with existing guardrails. Members suggested keeping the existing details online as a reference for repairing current installations. Mr. Gallimore said he would check with contractors to see what they are doing on the ADOT projects.

Mr. Herz said the new 31" high guardrail system will be used for new installations. Existing 28" high guardrail will remain in place and be maintained; no retrofitting is needed or planned.

11. Case 14-04: Revision to Detail 552 Concrete Cut-off Walls.

Move cut-off walls away from roadway edge and delete design related notes. Bob Herz provided a new case during the meeting that would require the location of cut-off walls to be dimensioned. The existing detail has the cut-off walls located along the roadway edge. Since scour holes are hazardous and form at the edge of cut-off walls, cut-off walls should be located away from the normal edge of pavement. While reviewing the detail he noticed notes relating to design issues rather than construction, and thought they should be removed. He also wanted to replace Note 5 with the following, "REINFORCING BARS SHALL BE SET 3" CLEAR FROM THE SIDES OF CUT-OFF WALLS." Mr. Herz asked members to review the proposed detail revisions and send him comments.

12. Working Group Reports

Chair Wilhite asked for the working group chairs to provide him a memo listing the proposed goals and objectives for the working groups during the next year. Mr. Herz asked if the groups had any upcoming meetings scheduled. Mr. Wilhite said he would distribute a memo to encourage participation.

a. **Water/Sewer Issues Working Group**

Jim Badowich said he would like to schedule a meeting for January 21st at 1:30 p.m. He asked Gordon Tyus to reserve a meeting room at MAG.

b. **Asphalt Working Group**

Jeff Benedict said the group's next meeting was tentatively scheduled for January 30th, a week later than typical. He said they will be coming up with a list of projects.

c. **Materials Working Group**

Brian Gallimore said he currently didn't have any specific items.

d. **Concrete Working Groups**

The concrete working group would follow the Asphalt/Materials working group meetings on January 30th.

e. **Outside Right-of-Way Working Group**

Peter Kandaris said he planned working with members directly via email to update and prepare specifications. He felt this would be more productive than scheduling meeting dates at this time.

13. General Discussion

Gordon Tyus provided a staff report. One item discussed was a revision to the MAG policies and procedures regarding quorum requirements for technical committees. He said that members who had not attended the prior three meetings would not be counted in the total number of members when it came time to determine a majority in attendance that is needed for a quorum.

He also reported that the 2014 Revisions to the Specifications and Details books have been posted on the MAG website. The update packets have been printed and are available for purchase. He said that after the initial printing, it was noted that a few additional pages needed to be added to the packet due to the text reflow from the prior page 107-1.

Tom Wilhite asked members for any future agenda items or discussion issues. Some of the items mentioned included:

- Tom Wilhite – low impact development specs and details.
- Jeff Hearne – specs on penetrating sealers, to be addressed first in the working group.
- Warren White – carbon fiber wraps for repairs. Mr. Wilhite said they used this product to increase the strength of a bridge column in Tempe.

14. Adjournment:

Seeing no further business, the chair entertained a motion to adjourn. This was moved by Jim Badowich and seconded by Harvey Estrada. The motion passed and the meeting was adjourned at 2:49 p.m.