

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

February 1, 2012

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

AGENCY MEMBERS

Jim Badowich, Avondale	Javier Setovich, Peoria
Scott Zipprich, Buckeye	* Syd Anderson, Phoenix (St. Trans.)
Warren White, Chandler	Jami Erickson, Phoenix (Water)
* Lance Calvert, El Mirage	* Marc Palichuk, Queen Creek
Greg Crossman, Gilbert	Rodney Ramos, Scottsdale
Mark Ivanich, Glendale	Jason Mahkovtz, Surprise
Troy Tobiasson, Goodyear, Chair	Tom Wilhite, Tempe, Vice Chair
Bob Herz, MCDOT	Jim Fox, Youngtown
Bob Draper, Mesa	

ADVISORY MEMBERS

Jeff Benedict, ARPA	Jeff Hearne, ARPA
Tony Braun, NUCA	Peter Kandaris, SRP
* Kwigs Bowen, NUCA	* Paul R. Nebeker, Independent
Brian Gallimore, AGC	
Adrian Green, AGC	

MAG ADMINISTRATIVE STAFF

Gordon Tyus

* Members not attending or represented by proxy.

GUESTS/VISITORS

Arturo Chavarria, Hanson Pipe and Precast
Bob Erdman, Cutler Repaving
Art Glover, Flood Control District, Maricopa County
Michael Hook, ACPA
Yvonne Martinez, SRP

1. Call to Order

Chairman Troy Tobiasson called the meeting to order at 1:30 p.m.

2. Call to the Audience

No public comment was provided.

3. Approval of Minutes

The members reviewed the January 4, 2012 meeting minutes. Jami Erickson noted that in the last paragraph in section 15 should read AUCC instead of ACI. Greg Crossman introduced a motion to accept the minutes with the correction provided by Ms. Erickson. Scott Zipprich seconded the motion. A voice vote of all ayes and no nays was recorded.

Review of 2011 Carry Forward Cases

4. Case 11-02 – Safety Edge Detail

Add an Asphalt Pavement Safety Edge option to Detail 201. Bob Herz handed out a new detail drawing dated 2/1/12 that showed revised safety edge sections for both overlay and new pavement based on the county's experience with a shoe recently received. He said the revisions were based on the edge produced by the shoe with dimensions of 8" wide and 5" deep. He also said they tried constructing the edge without a shoe, and had difficulty getting compaction. Maricopa County decided to keep the thickened edge detail and add the safety edge overlay. They will be testing this method on a demonstration project in March. Mr. Benedict asked Mr. Herz about existing construction projects. He replied that they will likely be sending out revised details similar to the one provided to the committee, but that the details were still a work in progress. Tom Wilhite asked if there would be changes to the written specifications. Mr. Herz said that there likely would, but that he was going to wait until after their demonstration project and make changes based on their experience with it.

5. Case 11-03 – Replace Cadmium Plated Bolts.

Replace cadmium plated bolts referenced in Section 610.13 with zinc plated bolts as described in ASTM-B633. Paul Nebeker was not present; however, Scott Zipprich said this case was discussed at the last water/sewer working group meeting. He suggested the working group make updates to the case and resubmit it to the committee. Jim Badowich agreed. It was discussed to not just remove cadmium bolts, but provide options for several types of bolts used in the field including specifications for stainless steel bolts used by Phoenix.

6. Case 11-12 – Modifications to Regulatory Requirements, MAG 107

Add references to Arizona native plant requirements and update references to state statutes. Mr. Kandarlis said this case was discussed at the last outside right-of-way meeting. Since contractors must follow all state statutes, he suggested that maybe this section should be

more general in nature, rather than specifying certain specific regulatory requirements. It also is difficult to keep up-to-date as laws change, and there has been difficulty getting a legal review from member agencies. Mr. Kandaris said specific references could be removed and that he would review it to see about making it more general.

7. Case 11-14: Update Fire Hydrant Details

Update Detail 360-1, and add Wet Barrel Option (360-2) and Details (360-3). Scott Zipprich said he did not have updated details yet, but that the case was discussed during the water/sewer meeting. The working group is working on a red-lined version, and he'd like to get comments back from the agencies and fire departments. Jim Badowich said the group discussed providing minimum clearances around hydrants. Mr. Herz suggested finding the most common to use as a default. Mr. Zipprich said Paul Nebeker suggested following the national fire code guidelines. Mr. Badowich mentioned that the group discussed removing thrust blocks and using joint restraints instead. He also discussed the concrete base for wet and dry barrel hydrants, which were added to ensure the hydrants shear if hit. He said the concrete bases also help maintain the correct grade height. Mr. Zipprich said they would continue to work on the details at the next working group meeting.

8. Case 11-16: Modify Section 415: Steel Flexible Metal Guardrail

Update Section 415 based on the Maricopa County Supplement. Reference New Details. Peter Kandaris said recently updated guardrail details from Maricopa County were included in the packet. He said the county also updated one line in the specifications, which he would add. Scott Zipprich said Buckeye is putting in quite a few guardrails, and they use the county guardrail details along with ADOT's terminal details. Mr. Kandaris asked if the committee wanted to just reference the county details. Mr. Herz said an option would be for MAG to incorporate the county's entire guardrail specifications and details, and then MCDOT could remove it from their supplement. When asked if he expected any additional changes soon, Mr. Herz said he thought the height might change to 31" next year.

9. Case 11-18: Update Section 350: Removal of Existing Improvements

Add language in Section 350.2 for utility removal, and payment requirements. Mr. Kandaris said he was waiting for comments from someone within SRP, and that it was discussed at the last working group meeting. He said one issue discussed was to look at the blue stake law regarding abandonments. Mr. Kandaris asked for comments and said he plans to have a revision ready for the next meeting.

10. Case 11-21: Add new Section 623: Special Bedding for Mainline Storm Drain Pipe

Incorporate City of Phoenix supplement 623 into the MAG standards. Mr. Tyus said Syd Anderson emailed him a message that he would be unable to attend the meeting, and that he had not made any updates from the case in the packet. Jim Badowich said the water/sewer group discussed this case during their January meeting. They received comments from contractors and suppliers including representatives from Hanson Concrete Pipe. Much of the

discussion at the working group meeting was about the need to create trench system specifications based on two design scenarios: for rigid pipe, and flexible pipe. When MAG began to allow flexible pipe such as HDPE, it did not necessarily consider the difference in the trench, bedding and backfill for different materials. He said there needed to be more discussion about the pipe zones and clarify definitions. He also invited flexible pipe suppliers to attend the working group meetings. Warren White asked if this was an option, but not a requirement. The final intent was not clear. Troy Tobiasson said he liked the idea of thinking of it as a complete trench system.

11. Case 11-30: Update Section 702: Base Material and Section 310 Untreated Base Course

Update Section 702: Base Material. Revise for current standards. Brian Gallimore said he received comments from Goodyear about two weeks ago, and comments from Glendale before the meeting. To address Goodyear's comments, he said the latest version of the case changed the fractured face requirement from 30% back to 50% as it currently is. This was an issue with Glendale and Mesa as well. He asked Glendale and other agencies to review and provide any further comments. Mark Ivanich said the lab personnel in Glendale were reviewing the case now. Bob Draper of Mesa asked about the reference to a P.I. value white paper. Mr. Kandaris said it was included in the August 2011 agenda, and that he could provide him a copy. Mr. Gallimore asked for any more comments and said he would like to vote on the case at the next meeting

New 2012 Cases

12. Case 12-01: Miscellaneous Corrections

A. *Correct Warrantee to Warranty in Section 108.8.* Gordon Tyus said that he received comments from a former MAG employee, noting the spelling of WARRANTEE in Section 108.8 should be WARRANTY since it is referring to the warranty itself, not the person receiving the warranty. Warrantees also should be spelled warranties, and he noted a space was needed to fix a typographic error. This was submitted as the first of the miscellaneous corrections cases for 2012.

13. Case 12-02: Asphalt Concrete Low Traffic Gyration Levels

Modify Section 710 Asphalt Concrete to include low traffic gyration level specifications. Jeff Benedict said a rough draft was included in the packet, but that they are working on revising and clarifying the language, with the intent to bring back an updated version including a cover memo as a case at the next meeting. Mr. Benedict also asked Mr. Herz to have Jon Shu at the county review the draft, and also invited Mr. Shu to attend the asphalt working group meetings.

14. Case 12-03: Revisions to Detail 250-2 DRIVEWAY ENTRANCES

Update Sidewalk Widths to 4' in Detail 250-2 Driveway Entrances. Bob Herz introduced this case based on the access board's likely recommended change of a minimum of 4' width of sidewalks for ADA requirements. Scott Zipprich said the committee should consider revising the details to allow a 4' width parallel to the edge of the slope line to reduce the total amount of concrete and size needed. The larger size could affect right-of-way, and placement of things such as street lights. Warren White said Chandler has a detail that drops the sidewalk down to keep it parallel. He said this was a good option for retrofit areas, and would supply it for review.

15. Other Potential Cases

Peter Kandarlis introduced Yvonne Martinez, and said she was working on updating the rest of the ASTM references outlined by Mr. Tyus at the last meeting. He said she would eventually become his replacement as SRP's representative on the committee, and they expected to have the ASTM case ready to submit to the committee in April.

Jim Badowich asked about the milling and overlay technique used to reduce dust that was discussed at the last meeting. Brian Gallimore and Jeff Benedict did not expect a case to come out of it right away, but that it may be an option in the future.

16. Working Group Reports

Chair Tobiasson asked for reports from the working groups.

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

Jim Badowich said the group met on January 17th, and that there was a good turnout. Much of the discussion was about the cases discussed earlier in the meeting. In addition, Scott Zipprich gave a presentation on his visit to a manufacturer of pre-cast manhole bases, and included information on methods of wet and dry casting. Bob Herz asked if the pre-cast bases were being considered for sewer or storm drain manholes. Mr. Badowich replied that they were developing them for sewer, but they would work for storm drain manholes as well. Scott Zipprich answered a question about how the floatation ring worked. Other discussion included alternative backfill methods. Mr. Zipprich commented that the table in Section 601 specifies bedding around the manhole but not underneath, so this should be updated. Mr. Herz said he believes they address bedding under structures in their supplement. Mr. Badowich also said pipe connections and overall updates to the manhole details are also being reviewed. The next meeting is scheduled for Thursday February 21st at 1:30 p.m. at the MAG office.

b. **Specifications and Details Outside the Right-of-Way Working Group**

Peter Kandarlis said they met after the water/sewer group on January 17th. In addition to the cases already discussed, new potential cases being reviewed by the group include updating the geogrid specifications with ASTM modifications and other

updates. He noted that a popular type of geogrid will lose patent protection and become available from more suppliers this year.

Another potential case is to update the traffic control specifications, and possibly reference other agencies' barricade standards manuals. Phoenix is a popular one, although Mr. Herz said they update the MAG standards with their own standards. Brian Gallimore said the 2009 Manual on Uniform Traffic Control Devices (MUTCD) changed many "mays" to "shalls" and "wills." He explained that ADOT has an approved supplement to the MUTCD, which agencies should adopt in addition to the national manual in order to meet state law, and provide more flexibility. Peter Kandarlis said he would get information from the county on its supplement.

Standardizing street sign bases was also an area that could help reduce agency supplements. Scott Zipprich asked if anyone had a detail for placing signs in the pavement, so that they would shear if hit. Some streets have stop signs in the street such as in Sun City and in areas with multiple lanes and no medians.

Finally, another case discussed (that may be ready later in the year) was updating chain link fence details to offer a choice of link gages and height options. The next meeting will follow the Water/Sewer Working Group meeting on February 21st.

c. Asphalt Working Group

Jeff Benedict said at the January 18th meeting the group outlined a to-do list for the year. This included collecting data for penalties required by different agencies, work on Section 710 as previously discussed, and a possible warm mix asphalt specification. He referenced a handout inviting members to attend a workshop put on by the Arizona AGC about this issue, on February 28th. Bob Herz asked if local suppliers could provide warm mix. Adrian Green said there would be many, and described how it has become a very popular method worldwide, and mentioned some other benefits.

There was also discussion at the working group meeting about new RAP specifications and using recycled materials in general. It was decided to move the discussion of recycled materials to the materials working group.

d. Materials Working Group

Brian Gallimore said they did not meet in person, but members did discuss updates to Section 310 via phone and email to address Goodyear's concerns. He is not planning a meeting this month unless additional comments on Case 11-30 are received. Mr. Gallimore did say they were planning to meet in March, and the agenda would include the topic of recycled materials including asphalt, concrete, base materials and CLSM.

e. Concrete Working Group

Jeff Hearne said the group met on January 18th at 1:30 p.m. at the ARPA office. Revisions to Section 702 were discussed, including whether to add recycled materials, but it was decided to complete the current case and tackle recycled materials as a separate issue. The group went over a list of sections for review and divided them up

with volunteers shown in the meeting notes included in the agenda packet. Mr. Hearne encouraged agency members to attend, and said the next meeting was scheduled for February 23rd at 1:30 p.m. at the ARPA office.

17. Staff Reports

Gordon Tyus said new members may want to speak with him after the meeting to have accounts set-up for ASTM access. He also said members not present at the January meeting can talk to him about getting a copy of the 2012 book.

18. Open General Discussion

Jeff Hearne suggested a method of tracking the review of the MAG book. The current table of contents shows when the section was last updated, but he said there may be sections that are reviewed by the committee or working groups, and determined that they were okay as they are. It would be nice to track the review of all the sections so members would know when a section was last looked at, and also when it may be due for another review.

He also said they have been getting good feedback about the online version of the MAG book. Jim Badowich asked if there was a way to quickly return to the table of contents in the specifications part of the book. Mr. Tyus said you can open the bookmarks side panel in Adobe Reader to have a quick link to the contents.

Tom Wilhite asked if any agencies had supplements for removable bollards. Warren White said Chandler had one that he would share. Mr. Wilhite said he did receive one from the flood control district.

Troy Tobiasson brought up the issue of testing procedures for asphalt materials. He said they have had problems in Goodyear with certain materials, and did not have any good tests available to diagnose material problems after construction. Adrian Green said his company uses a CALTRANS testing procedure (CT_227) for materials to determine their "cleanliness." It is a method for testing aggregates that doesn't require most labs to get new equipment, and should be used and as "indicator". Mr. Kandaris said that testing the mineralogy would help determine what is actually in the aggregate. The goal is to find testing methods to identify issues relating to inconsistent materials supplied from pits, before they are used by the contractors and become problems in the field.

19. Adjournment:

Mr. Tobiasson adjourned the meeting at 3:15 p.m.