

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

January 4, 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.)
Sheina Hughes, Chandler (proxy)	Jami Erickson, Phoenix (Water)
* Robert Senita, 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
Bill Davis, NUCA (proxy)	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
Michael Hook, ACPA
Tom Villa, Drake Materials

1. Call to Order

Chairman Troy Tobiasson called the meeting to order at 1:33 p.m.

2. Call to the Audience

Mr. Tom Villa of Drake Materials introduced himself and asked the committee if they had considered using recycled concrete materials in CLSM applications. Mr. Tobiasson said there has been discussion about the use of recycled materials, and that he may want to contribute to the materials or concrete working group that are currently addressing the issue.

3. Approval of Minutes

The members reviewed the October 5, 2011 meeting minutes. Tom Wilhite introduced a motion to accept the minutes as written. Rod Ramos 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 12/11 that showed safety edge sections for both overlay and new pavement based on FHWA requirements. He noted that construction using these methods was difficult, and the county is still looking for ways to improve the details for better ease of construction; and was open for suggestions on how to do that. Rod Ramos asked if they used a shoe. Mr. Herz replied that they would be getting one as a loner to use on a future project, but have not tested it yet. He said they are currently using these details at the county until better ones are developed. Mr. Herz also noted that Chandler asked if the safety edge should be used in the alley details instead of the thickened edge. He doesn't think it should, because the purpose of the safety edge is to reduce overcorrection problems where speed is an issue. He said MCDOT does not require a safety edge on roads with speeds 40 mph or less. Peter Kandaris said the detail could be used for other applications. He said SRP uses a safety edge on access roads where vehicles frequently move on and off the road. Rod Ramos noted you can call out the detail as needed.

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 said he had not investigated this issue since the last meeting. The sample spec in the agenda was based on a submission from Peoria, so he said he would talk to their representative. He explained that he would not be able to attend the next committee meeting, but perhaps Mr. Setovich would be able to fill them in.

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

Add references to Arizona native plant requirements update references to state statutes. Mr. Kandaris asked for feedback on this case, stating a new standard was needed since ARS 23-373 no longer exists. He said that it needed legal review and asked if any agency would be able to help. He also brought up the question of how many statutes should be included or referenced in the MAG specifications.

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 handed out the latest draft details presented during the October Water/Sewer Working Group meeting. In addition to the details, he prepared a draft letter to be forwarded to the agency fire departments so they could review the proposed details and provide feedback needed to revise them and have them accepted by the cities. He said the details added a wet barrel option, and tried to combine the requirements from current agency supplemental details. He gave the example of sheer block options shown on the details that could be specified by the agency depending upon their preference. The goal is to make relatively all-inclusive details that pull everyone's ideas together. Mr. Zipprich welcomed comments and said they would continue to be an item of discussion at the Water/Sewer Working Group meetings, and would like to have them approved this year.

Jim Badowich said some concerns of the fire departments are the clearance and setback requirements, which can vary from 36" to 7'. He also said hydrant threads were an issue, as well as the number of ports – typically 3 on commercial hydrants and 2 for residential area hydrants. Paul Nebeker said Chandler locks their hydrants. Mr. Zipprich said they decided to leave the lock off the main details, but an optional lock detail could be added later.

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 there were two main goals needed to complete this case. One, is to update the specification, and two, is to decide how to handle the guardrail details which were deleted from the MAG book in the new edition. He said the current specification is essentially based on the county's supplement. For the details he recommended that rather than create our own, we either adopt Maricopa County's or ADOTs. Mr. Herz said the county has revised details not yet published they can provide. He also explained that they use a sole supplier to ensure the rails and end-caps meet current safety requirements. Mr. Kandaris said the county details are simpler, but the ADOT details provide more options. He said he would gather both county and ADOT details for further discussion at the next meeting.

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

Add language in Section 350.2 for utility removal, and payment requirements. Peter Kandaris said currently there is no language to handle utilities – whether they should be kept or

removed. He said ADOT is also currently reviewing this topic, and hopes to get feedback from their meetings as well. He said payment language was changed to get proposal prices for each item removed, rather than an overall removal price that did not address the scope of what was to be removed. He asked agencies to review the case and provide feedback.

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. Syd Anderson said the latest version of the case from last year was included in the packet. He said the revised version updates references to the new CLSM standards that were adopted. He said the purpose of the case was to address settlement and testing issues.

Bill Davis of NUCA said industry was opposed to this change, stating that the ASTM D2321 standard for installation does not require a slurry seal. He believes the slurry adds greatly to the cost of installation, and also worries that possible floatation of the pipe could cause misalignment.

Mr. Anderson said that Phoenix has been requiring CLSM slurry for mainline storm drains for 15-20 years, due to a previous failure in the street. Chair Tobiasson asked if other agencies use slurry for bedding. Bob Draper said Mesa uses it to ensure compaction, and for safety issues. Peter Kandarlis said SRP uses it for irrigation pipe, mainly to get the job done faster and get out of the street. Glendale also was said to use slurry.

Jim Badowich said there can also be confusion as to what the term bedding means, since common uses is that bedding is what the pipe rest on, yet it is referred to differently in other specifications. Bob Herz said MAG detail 200-2 shows the bedding zone from the bottom of the pipe to 1' above the pipe.

Greg Crossman asked if this new specification applied only to storm drains. Mr. Anderson said yes, and clarified that it would replace the requirements in Section 603.4.2 for bedding. Mr. Tobiasson asked if a detail could be provided to help clarify these issues. Mr. Anderson said he could include one for the next meeting.

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 no new comments during the holiday break; however, he would like them by the next meeting, and proposed to vote on the case in March. Troy Tobiasson said agencies may want to take it to their labs to get feedback. Jeff Benedict said that you may want to accept changes on the draft version, which would make it easier to follow and understand the final proposed specification. Mr. Kandarlis said a “roadmap” version is also available to track the changes made.

New 2012 Cases

12. Proposed Cases

Syd Anderson said Phoenix is developing guidelines for milling and overlay work on high wind advisory days to reduce the amount of dust during construction. He said there are some general precautions in Section 104.1, but no specific requirements for this issue. He said that in their practice using two applications of a 50% tack coat helps reduce dust. The tack coat prevents the dust from coming up off the roadway until paving is completed. Mr. Herz said it could be added to the section on milling or paving. Brian Gallimore said he proposed this method and worked with the City of Phoenix, but that other agencies didn't want to try it. He said it worked well and assured that there was very little tracking. Jim Badowich asked if having the fine dust "tacked down" reduced the adherence of the final roadway surface. Jeff Benedict said it is still swept before the tack coat is applied. Peter Kandaris added that the ridges are more important in getting the interlocking attachment anyway. There is a second tack coat applied before paving. Syd Anderson said he would work on putting a case together for the next meeting.

Chair Tobiasson referred a handout provided by Mr. Tyus which summarized additional proposed cases that had been discussed in the past. It included cases that were withdrawn, cases that were reduced in scope from their initial proposal, and other potential cases discussed during committee and working group meetings. Mr. Tobiasson asked members to review the list and see if there were any cases they wished to resurrect or continue to pursue.

One listed was the case updating ASTM references. A handout was provided by Mr. Tyus. He explained that the top references in green had been corrected last year, or removed when sections were rewritten or deleted. The bottom half of the page listed the remaining ASTM references still in the new edition, which needed to be updated. Mr. Kandaris said he had someone in his office who can work on this case.

13. Working Group Reports

Chair Tobiasson again thanked the working groups and participants for all the work during the past year, stating that all the revisions done this year would not have been possible without their efforts.

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

Jim Badowich said the next meeting is scheduled for Tuesday, January 17th at 1:30 at the MAG office. Mr. Tyus said he would reserve a room. The group will continue to work on issues shown in the notes from the October 18, 2011 meeting. He said they appreciate the input of industry members, such as representatives from Ferguson, that have attended past meetings.

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

Peter Kandaris said the next meeting will follow the Water/Sewer Working Group meeting on January 17th at about 3:15. The group will follow-up on the carry over cases, such as the guardrails.

c. **Asphalt Working Group**

Jeff Benedict said ARPA has their normal technical meeting next week when they will decide when to have the next working group meeting. It likely will be the 18th or 19th of January. He will let Mr. Tyus know the meeting time, so it can be posted.

d. **Materials Working Group**

Brian Gallimore said the group met in December, and began discussing potential new cases. First they would like to complete Case 11-30. The next meeting will be scheduled based on feedback and comments received on this case, so they can respond if necessary.

e. **Concrete Working Group**

Jeff Hearne said the group has been working in smaller groups on potential cases. The next meeting is scheduled for January 18th at 1:30 p.m. at the ARPA office. One topic of discussion will likely be recycled aggregates, but whether to include them in specific sections or as a new specification was up for discussion. Peter Kandaris said recycled aggregates would need performance specifications.

14. Staff Reports

Gordon Tyus provided an update on the 2012 Edition of the MAG Specifications and Details publication. He provided copies to the committee members and said MAG now has hard copies available for sale. The prices of the books have been reduced and are based only on recouping printing costs. Since there are no update packets, the full printed book is priced at \$20.50 before tax and \$22.00 after tax. This price will not include a blue binder. Binders are available for an additional \$10.00 (including tax). Shipping/handling costs are still \$5. Additional discussion about new editions/update is likely needed going forward.

Mr. Tyus also discussed the electronic version of the book. He showed the committee members where it is linked on the MAG website, and that it can be downloaded for free. Once opened, he noted the new cover design, and 1 page summary of changes. He also demonstrated the new hyperlinks in the PDF files, that allow users to jump from the table of contents to any section, as well as jump to referenced sections within the text. Similar hyperlinks were demonstrated in the detail drawings PDF file. Mr. Tyus explained that the file has also been tested using the iPad and iPhone. Members appreciated the new convenient links, and the overall work in preparing the final document for publication.

15. Open General Discussion

Jim Badowich said he attended a recent pavement conference, and noted that the federal government had a grant program to get a shoe for constructing safety edges. Mr. Herz said you need to have a demonstration project to get the loaner awarded for the construction.

Tom Wilhite asked about ADA criteria and changes. Bob Herz said one proposed change to require 4' sidewalk clearance would necessitate updating the driveway details, and can effect right-of-way requirements. The new changes may also require dual sidewalk ramps. He was not sure when the new requirements were finalized, possibly March or April. He noted the comment period ends in February. Sheina Hughes said Chandler was required to use the dual ramps to meet requirements for federally funded projects.

Troy Tobiasson asked if other agencies are investigating the use of speed cushions rather than speed humps for traffic calming. He thought that there could be problems making them work in streets with bike lanes and on-street parking. Jim Badowich said they are trying one. Rod Ramos said Scottsdale installed a couple manufactured ones. Brian Gallimore said Glendale and Mesa have used them, and Greg Crossman said Gilbert has as well. Mr. Tobiasson asked several questions such as the number, road widths, and interference with parked cars, as well as what the fire departments thought about them.

Jami Erickson said she and Tom Wilhite gave a presentation on the changes in the new edition of the specs to AUCC. She said the PowerPoint is available from Mr. Tyus if other members would like to use it.

16. Adjournment:

Mr. Tobiasson adjourned the meeting at 3:00 p.m.