

REVIEW COMMENTS
MAG Case 07-02

Item #	Section	Comment
1.	General	<p>Specifications are to be (a) Clear (No ambiguity), Concise (No excess verbiage), Complete (All required information in the proper format), and Correct (Technically accurate).</p> <p>Delete the use of the word 'should' from the specifications – It does not define a requirement, it only provides advice.</p> <p>Delete the use of bid and bidding from section 321. These specifications are to be independent of the type of procurement process used.</p> <p>Delete phrases such as 'Please note' as found in section 710.</p> <p>Delete the use of the word recommend and its variants (recommendation) from section 710 – Define requirements not recommendations.</p>
2.	321.1	<p>Include wording from the current Section 321.1. For example, the new spec discarded the phrase "upon a previously prepared base or subgrade" and there are no other places mention any grade preparation. This could be a loop-hole for not enforcing base or subgrade compaction.</p>
3.	321.1	<p>MAG is designed for use by agencies, the owner is implied. Do not define owners or type of projects the specifications are to be used on. Private owners can use MAG for their work; but MAG should not consider private owner' needs for specification.</p>
4.	321.3	<p>Revise the definition of "excessive moisture". A lot of soils will pump at or above optimum moisture, or even slightly below the optimum moisture when being compacted. Perhaps a performance definition would be sufficient.</p> <p>Add requirement for thin applications: Asphalt concrete of less than 2 inches in thickness shall be placed only when the atmospheric temperature in the shade is 55° F or above.</p>
5.	321.6	<p>The requirements for measuring device calibration in the current Section 710.5.3 regarding proportioning are not identifiable in the proposed Section 321. Add the requirements. Identify inspection frequency requirements.</p>
6.	321.6	<p>Reference is made to 'Hot Mix Asphalt Production Facilities' by the Arizona Rock Products Association – This may contain excellent information but is not a recognized standard such as ASTM or AASHTO and should not be referenced. If the current provisions of the ARPA document are desired, copy the requirements into MAG (as a new section) to provide MAG approval over any changes made to MAG accepted provisions.</p>
7.	321.7	<p>Rearrange the first sentence. Or, delete the first three words, and capitalize the first letter of the word "petroleum". This is a prior comment from John Shi. The sentence is basically "The use... shall not be used..."</p> <p>Revise the sentence to "Petroleum distillates... should not be used..." or "The use... should not be allowed." or "The use should be prohibited."</p> <p>Last Sentence – Require tarpaulins to be furnish and used.</p>

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8.	321.8.4	The requirement for roller speed is no longer specified. The new section is too vague and is difficult to enforce.
9.	321.9	Last paragraph – Indicates production should cease when the material does not conform to the approved mix design, identify what is to be done with the non-conforming material that is already in place.
10.	321.10.2	The paragraph below Table 321-3: It seems that QA test results are used for Quality Control purposes. It is unclear who is responsible to issue cease production orders, the contractor, the supplier, or the owner. When there is a problem in the material, it is too long of a time delay to wait for the second QA test results prior to a decision to cease production.
11.	321.10.3	Revise title to Surface Smoothness Revise first sentence as noted: If directed by the Engineer surface <u>smoothness and water testing</u> shall ... Define criteria to be used to determine proper or improper drainage as addressed in the second paragraph. Third paragraph – clearly define acceptable correction methods.
12.	321.10.4 & 321.10.5	Asphalt Concrete Coring Method is named and referenced to AGC and ARPA websites. The title should exactly match the title being referenced (Core Drilling of Hot Mix Asphalt (HMA) for Specimens of 4" or 6" diameter). Rather than reference an ARPA or AGC document, copy the requirements into MAG (as a new section) to provide MAG with approval over any changes made to the MAG accepted provisions.
13.	321.10.4	Numbered paragraph 2 – Delete Numbered paragraph 3 – Revise to paragraph 2 – Revise target thickness from 'more than 0.50 inch' to 'more than 0.25 inch'
14.	321.10.5	This section titled Density should address compaction requirements but it seems to only air voids. Address compaction requirements as addressed in the present MAG specifications. Include the following in the compaction specifications: Density shall be reported as a percentage of relative compaction, calculated and rounded to the nearest tenth of one percent (0.1%).
15.	321.10.6	Table 321-8 provides penalties when the contracting agency is the owner. What penalties should be assessed when the contracting entity is not the agency (permitted work)?
16.	710.1	Keep low traffic and high traffic mix design options available for both Marshall and Gyrotory design methods.

Deleted: drainage

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17.	710.1	Paragraph 2 – Define the nominal maximum aggregate size of the ‘Base’ mix. Paragraph 3 – Keep the first sentence, delete the remaining sentences. Paragraph 4 <ul style="list-style-type: none"> – Text discusses ‘Design Target Lift Thickness of Table 710-1’ but Table 710-1 does not address ‘Design Target Lift Thickness’. Coordinate descriptive references. – Be direct and concise, if this paragraph is meant to identify minimum and maximum lift thicknesses, directly state the requirements. – Delete: (From 321.5.4 of existing MAG)
18.	710.3	First paragraph <ul style="list-style-type: none"> – Revise the second sentence to delete dependence on ADOT. The resulting sentence should read: The laboratory shall be under the direct supervision of a Civil Engineer, registered by the State of Arizona. – Two years for a new mix design is too long.