

0050104 SCOPE of WORK
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (10/26/20, Internal)

1. In Table 5-1, what is the difference between a Specialty Engineer and Contractor's EOR? On DBB projects, this is one and the same person/firm.
2. 5-1.4.4.2 Other Documents – adds the term “work plans” but I don't see that defined anywhere. In the hands of an over-zealous CEI, the addition of the phrase “work plan” has the potential to interject a high degree of subjectivity and additional work. For example, we do work plans for major items of work for our own internal purposes to address items like safety and productivity. I doubt that is what the intent is here and we would not want to share that information anyway.
3. Where is the line drawn between a shop drawing or design element that the EOR needs to design? If the line is public safety, shouldn't all temporary works affecting public safety be designed and MOT consideration given by the EOR.
4. We may want to do a call with the FTBA Structures Committee and go over these changes before we proceed.

Responses by Scott Arnold:

1. The Specialty Engineer and Contractor's EOR are defined in both the Standard Specs and DB Specs. In both cases, the Contractor's EOR may be a Department-approved Specialty Engineer, rather than an employee of a prequalified firm.
2. You are correct, our intent was not to require submittal of the kind of work plans you describe. I think we can remove the added phrase, “work plans including methods, phasing, procedures, sequences...” and avoid this confusion.
3. Typically, an EOR for structures does not have the expertise to design the temporary works, except for temporary critical walls. This is done by a Specialty Engineer using the methods and specialized equipment and materials preferred by the contractor. The EOR typically is responsible for the design of permanent components of the work, except for those specialized components such as bearings, expansion joints, etc. that are designed by suppliers.
4. We will set up a call as soon as possible.

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Comments: (10/22/20, Internal)

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| → → → 4. Detailer: The steel detailer that prepares the steel shop drawings for the fabrication, geometry and fit-up for all steel members in accordance with the plans. | JG Justo, Giselle
This should be "Plans" if referring to the defined term in Division 1 of the Specs. |
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- 1.

Response: Updated

→ → → 9. QA/QC Shop Drawing Check Prints: The Engineer of Record is responsible for conducting a review of all shop drawings regardless of whether the shop drawing is originated by the Engineer of Record or by others. QA/QC shop drawing check prints shall consist of highlighting items that the EOR is able to verify based on the EOR's plans and design information on each sheet reviewed. Each sheet shall be initialed by the reviewer. QA/QC Shop Drawing Check Prints shall be submitted to the Department along with the stamped Shop Drawing.¶	JG Justo, Giselle It seems this paragraph creates the define term "QA/QC Shop Drawing Check Prints"; therefore and to avoid ambiguity suggest capitalizing each work here: "QA/QC Shop Drawing Check Prints".¶
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2.

Response: Will capitalize QA/QC Shop Drawing Check Prints.

→ → 5-1.4.2 Shop Drawing Submittal and Review Requirements: See table below for Shop Drawing submittal and review requirements.¶	JG Justo, Giselle For consistency, consider "shop drawing"¶
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3.

Response: Will change Shop Drawing to lower case.

→ → → 5-1.4.5.98 Erection Plan, Geometry Control Manual and Erection Manual: Submit for the Engineer's review, an Erection Plan that meets the specific requirements of Sections 450, 452 and 460 and this section. Submit in writing for the Engineer's review, an Erection Manual and Geometry Control Manual that meets the specific requirements of Section 462 and this section. For all Erection Plans and Erection Manuals refer to Standard Plans, Index 102-600 for construction activities not permitted over traffic. For construction activities not covered in Index 102-600, clearly denote what additional construction steps are not allowed over traffic.¶	JG Justo, Giselle Consider:¶ Section, if referring to Section 5 of the Specs.¶
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4.

Response: Will capitalize Section.

→ → → 5-1.4.5.109 Other Miscellaneous Design and Structural Details Furnished by the Contractor in Compliance with the Contract: The Submit to the Engineer of Record shall review all shop drawings and the applicable calculations for miscellaneous design and structural details as required by the contract. The shop drawings and applicable calculations must will be signed and sealed by the Specialty Engineer. Submit in accordance with the requirements of 5-1.4.15-1.4.5.1 through 5-1.4.35-1.4.5.3, as appropriate.¶	JG Justo, Giselle This should be Contract, if referring to the defined term in Division I of the Specs.¶
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5.

Response: Will capitalize Contract.

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Comments: (12/10/20, Industry)

- For 5-1.4.6.1 exchange the word "may" with shall. Only shop drawings distributed with the approval stamps are valid and all work that the Contractor performs in advance of approval will be at the Contractor's risk. Work affecting Public Safety may shall not be performed prior to approval of appropriate submittals and work may shall not proceed at the Contractor's risk. For 5-1.4.6.3 exchange the word of with on. 5-1.4.6.3 Special Review by Engineer of on Shop Drawings for Construction Affecting Public Safety

Response: Thank you for the comments, will be considered.

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1. Under Sections 5-1.4.4.1, 5-1.4.4.2 and several other sections, where it states, “the documents shall” or “the calculations must be signed and sealed by the Specialty Engineer or the Contractor’s Engineer of Record.”, it doesn’t include "Digitally signed and sealed", which is an Industry requirement. I believe this information should be added to all sections to which it applies.

Response: Shop drawings are not required to be delivered electronically or digitally signed and sealed.