

4000100 CONCRETE STRUCTURES
COMMENTS FROM INDUSTRY REVIEW

Sherman Johnson
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Comment:

I think that under spec 400-21.3 some mention should be made to width of the crack. If it is not consequential, then that should be stated. Also, for consistency throughout the state, the type of tool(s) to measure the crack should be specified.

Response:

Keith Waugh
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Comments:

I agree with changes made to 400-1 through 400-15.2.5.5. Thank you. Under 400-21.2 I foresee problems when crack investigation is to be performed "after the bridge has been opened to full unrestricted traffic" but "before transverse grooves are cut and after planing is complete". First, for safety and liability concerns, the deck should be grooved prior to opening to traffic. Second, planing and grooving are generally performed by the same specialty subcontractor. Waiting between planing and grooving will cause additional mobilization and maintenance of traffic costs. Third, crack investigation prior to traffic provides information on the quality of construction, investigation after traffic would provide information on the design.

Response:

Ghulam Mujtaba
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Comments:

In Subarticle 400-15.2.5.1, the proposed specification instructs the Contractor to see the plans. But, it does not specify that what should be done after seeing the plans. I recommend the following modifications: When an existing bridge deck is widened, meet the finish and smoothness requirements of the existing bridge deck and its new widened section in accordance with the project plans

Response:

Scott Arnold
D7 Structures
813-975-6136

Comments:

The revision to the second paragraph of 400-1 seems to imply that Section 400 no longer applies to precast prestressed concrete construction at all. This is not the case since 450-12 refers to 400-21 for disposition of concrete cracks, and 400-18.6 addresses Setting Prestressed Slabs.

Response:

Guy Padgett
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Comments:

400-1 Description. Construct concrete structures and other concrete members, with the exception of structural concrete members covered under the Incidental Construction sections. incidental concrete construction (which are specified in other Sections). Shore, form, place, finish and cure cast-in-place concrete members and support, erect, stabilize and brace precast and/or prestressed members in accordance with the provisions of this Section. The first sentence of the proposed change is incomplete. It does not mention how the structures should be constructed. Also, it excludes concrete components of section 521,534 and 548, which are required to be constructed in accordance with this section. The following are my recommended changes: 400-1 Description. Construct concrete structures, concrete members, and concrete components of Sections 521, 534 and 548 in accordance with this Section.

Response:

Katie Bettman
D2 MRO
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Comments:

1. The first sentence isn't a complete sentence. It is also confusing. It seems to contradict whether Section 400 can be applied to Incidental concrete or not.
2. Materials Manual 8.2 - MANUFACTURED INCIDENTAL PRECAST/PRESTRESSED CONCRETE PRODUCTS references Section 400 for form condition, concrete placement operations, and concrete curing. The second sentence indicates that these sections in 400 are for cast-in-place concrete members.
3. The second sentence also indicates that certain elements of construction for prestressed members will be in accordance with Section 400. The first sentence of the next paragraph says to refer to 450. Sections of 450 also reference 400. Why limit prestressed members to sections of 400 involving only the areas mentioned - support, erect, stabilize and brace?

Response:

Greg Vickery
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Comments:

400-21.2 Investigation, Documentation and Monitoring: The Engineer will inspect concrete surfaces as soon as surfaces are fully visible after casting, with the exception of surfaces of precast concrete products produced in offsite plants, we agree with all revisions except those mentioned before this section in red. Some precast products may exhibit cracks after full dead loading - they should be inspected.

Response:

Chris Sweitzer
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Comments:

Proposed 400-1: Does the wording of the last part of the last sentence in the first paragraph conflict with the second paragraph in this section? 450-16.4 mentions requirements for erecting, bracing and stability of precast/prestressed products.

Response:

Ken Zinck
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Comments:

- (1) Amy Scales: On Value Added Concrete - The final survey is to be no later than 6 months before the warranty runs out. Why so far out?
- (2) Paul Wabi: My recommendation is to change the verbiage (in 400-15.2.5.1) to “When an existing bridge deck is widened, meet the finish and smoothness requirements of 400-15.2.5.3 and 400-15.2.5.5 for the widened section, unless otherwise specified in the plans”.
- (3) Tonii Brush: (in 400-1)“Obtain incidental precast products from a plant that is currently on the list of Producers with Accepted Quality Control Programs.”>> Comment: Where can the list be found?
- (4) Eric Jagers: (in 400-15.2.5.1) “When an existing bridge deck is widened, see the plans for the finish and smoothness requirements of the existing bridge deck and its new

widened section. "What if the existing plans don't identify what the finish and smoothness is suppose to be? I don't really understand the need for this additional wording. It doesn't seem to be necessary it would seem that the section for Surface Finishes would be sufficient."

Response:
