

ORIGINATION FORM

Date: 6/22/11

Originator: Charles Boyd

Contact Information: 414-4275

Specification Title: Precast Segmental Bridge Construction

Specification Section, Article, or Subarticle Number: 452-8.1

Why does the existing language need to be changed? The proposed changes address issues that have arisen on recent construction projects regarding crane placement and shop drawing submittals.

Summary of the changes: The positioning of erection equipment both on and off the bridge is now addressed. Field survey control method can now be submitted after the Erection Manual is initially submitted.

Are these changes applicable to all Department jobs? If not, what are the restrictions? Segmental bridge jobs only.

Will these changes result in an increase or decrease in project costs? If yes, what is the estimated change in costs? No change is anticipated.

With who have you discussed these changes? Robert Robertson, Tom Andres

What other offices will be impacted by these changes? Construction

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? No

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No

Contact the State Specifications Office for assistance in completing this form.
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ANANTH PRASAD, P.E.
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M E M O R A N D U M

DATE: June 22, 2011

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **4520801 Precast Segmental Bridge Construction.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Charles Boyd of the State Structures Design Office to address issues relating to crane placement (both on and off the bridge) and shop drawing submittals.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965RP or rudy.powell@dot.state.fl.us. Comments received after **July 21, 2011** may not be considered. Your input is encouraged.

RP/dt
Attachment

PRECAST SEGMENTAL BRIDGE CONSTRUCTION.
(REV 6-22-11)

SUBARTICLE 852-8.1 (of the Supplemental Specifications) is deleted and the following substituted:

452-8.1 Erection Manual: Before commencing erection operations, submit proposals for all segment erection operations to the Engineer for approval. This submittal must be in the form of an "Erection Manual" and include but not necessarily be limited to:

(1) A detailed step-by-step sequence for the erection of each segment including all intermediate procedures relating to erection equipment, temporary and permanent post-tensioning and making of closures between spans and/or cantilevers and other required sequencing.

(2) Positioning, use and sequencing of falsework, jacking and/or releasing of falsework, temporary towers, supports, tie-downs, counterweights, closure devices and the like.

(3) Positioning, use and sequencing of erection equipment such as cranes, beam and winch devices, gantries, trusses and the like, *both on and off the structure*, including the movement, introduction and/or removal of any supports onto or connections with the structure. Include drawings and calculations for the structural effects of erection equipment on the structure.

(4) Detailed scheduling of all temporary and permanent post-tensioning operations and sequences in accordance with the segment erection and closure operations and other required scheduling.

(5) Stressing forces and elongations for post-tensioning.

(6) Sequencing of grouting operations.

(7) A method for the field survey control for establishing and checking the erected geometry (elevations and alignments) with particular attention to the setting of critical segments such as, for example, pier segments for balanced cantilever erection. *This information may be included in the Erection Manual or may be provided later as a supplementary or separate document.*

(8) Any other relevant operations as required and applicable to the structure type and construction method.

Do not start erection without the Engineer's approval of the erection manual.