ORIGINATION FORM
Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date: 5-9-2019

Office: SDO

Originator: Jacqueline Petrozzino-Roche

Specification Section: 960

Telephone: (850) 414-4290

Article/Subarticle: 960-2.3.2.2 and 960-2.1, 960-2

email: Jacqueline.petrozzino@dot.state.fl.u

Will the proposed revision require changes to:

Publication	Yes	No	Office Staff Contacted
Standard Plans Index	○	◉	Jacqueline Petrozzino-Roch
Traffic Engineering Manual	○	◉	Jacqueline Petrozzino-Roch
FDOT Design Manual	○	◉	Jacqueline Petrozzino-Roch
Construction Project Administration Manual	○	◉	Jacqueline Petrozzino-Roch
Basis of Estimate/Pay Items	○	◉	Jacqueline Petrozzino-Roch
Structures Design Guidelines	○	◉	Scott Arnold
Approved Product List	○	◉	Jacqueline Petrozzino-Roch
Materials Manual	○	◉	Jacqueline Petrozzino-Roch

Will this revision necessitate any of the following:

Design Bulletin ☐ **Construction Bulletin** ☐ **Estimates Bulletin** ☐ **Materials Bulletin** ☐

Are all references to external publications current? **Yes** ◉ **No** ○

If not, what references need to be updated? (Please include changes in the redline document.)

NA

Why does the existing language need to be changed?

The ETAG-013 document referenced in the 960 Specification has been superseded and replac

Summary of the changes:

The modification will allow testing according to the updated EAD document. Vendors who hav

Are these changes applicable to all Department jobs? **Yes** ○ **No** ◉

If not, what are the restrictions?

This change applies to jobs with bridges using post-tensioning.

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

DATE: May 23, 2019

TO: Specification Review Distribution List

FROM: Dan Hurtado, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9600201 Post-Tensioning Components.**

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

This change was proposed by Jacqueline Petrozzino-Roche from Structures Design Office to allow testing according to the updated EAD document.

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 online at http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx . Comments received after **June 20, 2019,** may not be considered. Your input is encouraged.

DH/rf
Attachment

POST-TENSIONING COMPONENTS
(REV 5-10-19)

SUBARTICLE 960-2.1 is deleted and the following substituted:

960-2.1 Anchorage Assembly:

1. Construct anchorages from ferrous metal.

2. Anchorages shall develop at least 96% of PT steel actual ultimate strength when tested in an unbonded state, without exceeding anticipated anchor set.

3. Average concrete bearing stress shall be in compliance with AASHTO LRFD Bridge Design Specifications and AASHTO LRFD Bridge Construction Specifications.

4. Test anchorages with typical local zone reinforcement shown in system drawings.

5. Test anchorages in accordance with AASHTO LRFD Bridge Construction Specifications, ~~or the Guideline for European Technical Approval of Post-Tensioning Kits for Prestressing of Structures (ETAG-013, June 2002 edition)~~ or the European Assessment Document Post-Tensioning Kits for Prestressing of Structures (EAD 160004-00-0301, September 2016 Edition) with the exception that the design concrete strength used in the testing will be 6,500 psi. For anchorages that will be used for tendons with flexible filler, test anchorages in accordance with ~~ETAG-013 Section 6.1.2-I~~ EAD 160004-00-0301 Section C.3 Resistance to Fatigue.

6. Anchorages with grout or flexible filler outlets shall be suitable for inspection from either top or front of anchorage. Anchorages may be fabricated to facilitate both inspection locations or may be two separate anchorages of the same type, each providing singular inspection entry locations.

7. Geometry of grout and flexible filler outlets must facilitate access for borescope inspection directly behind wedge plate using a straight 3/8 inch diameter drill bit.

8. Ferrous metal components of an anchorage that are to be embedded in concrete shall be galvanized in accordance with Section 962. Other anchorage assembly components, including wedges, wedge plates, and local zone reinforcement need not be galvanized.

9. All anchorages shall have a permanent vented anchorage cap bolted to the anchorage.

SUBARTICLE 960-2.3.2.2 is deleted and the following substituted:

960-2.3.2.2 Bar:

1. Prestressing bars shall be in accordance with Section 933.

2. Bar couplers shall be in compliance with AASHTO LRFD Bridge Design Specifications and AASHTO LRFD Bridge Construction Specifications.

3. Test bar couplers in accordance with AASHTO LRFD Bridge Construction Specifications ~~or the Guideline for European Technical Approval of Post-Tensioning Kits for Prestressing of Structures (ETAG-013, June 2002 edition)~~ or the European Assessment Document Post-Tensioning Kits for Prestressing of Structures (EAD 160004-00-0301, September 2016 Edition). For bar couplers that will be used for tendons with flexible filler,

test bar couplers in accordance with ~~ETAG-013 Section 6.1.2-I~~ the EAD 160004-00-0301 Section C.3 Resistance to Fatigue.

4. Use only spherical nuts to anchor bars at bearing plates.