

ORIGINATION FORM

Specification: 7-7.5

Subject: Contractor's Equipment on Bridge Structures

Origination date: 4/27/10

Originator: Steven Plotkin

Office/Phone: (904) 360-5501

Problem statement: This specification requires the Contractor to use a Specialty Engineer to analyze the effects of Contractor imposed loads on existing or recently completed but not accepted bridges. However, several years ago the Department revised the overall specification to require the Contractor to use a Contractors Engineer of Record whenever a situation effects the permanent work and existing or recently completed bridges are permanent work so Specialty Engineers are no longer permitted to perform this type analysis.

Proposed solution: Revise the specification to replace the Specialty Engineer with a Contractor's Engineer of Record

Information source: Specification Section 1-3, Definitions, Contractor's Engineer of Record

Recommended Usage Note: Apply this specification revision to all projects as a standard specification

Estimated fiscal impact, if implemented: The services of a Contractor's Engineer of Record usually cost more than the services of a Specialty Engineer

Implementation Date for these changes: January 201

For Specifications Office Use Only

Begin date:

File Number:

Scheduled completion date: Projected process completion date.

Implementation team member: Specialist assigned to shepherd issue through the process.



Florida Department of Transportation

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: July 28, 2010

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: 0070705 Legal Requirements and Responsibility to the Public.

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

This change was proposed by Steven Plotkin to revise the specification to replace the Specialty Engineer with a Contractor's Engineer of Record.

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 ST986RP or rudy.powell@dot.state.fl.us. Comments received after **August 25, 2010** may not be considered. Your input is encouraged.

RP/cah
Attachment

LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC
(REV 7-21-10)

SUBARTICLE 7-7.5 (Page 64-65) is deleted and the following substituted:

7-7.5 Contractor's Equipment on Bridge Structures: The *Contractor's Engineer of Record* ~~Specialty Engineer~~ shall analyze the effect of imposed loads on bridge structures, within the limits of a construction contract, resulting from the following operations:

- (1) Overloaded Equipment as defined in 7-7.2:
 - (a) Operating on or crossing over completed bridge structures.
 - (b) Operating on or crossing over partially completed bridge structures.
- (2) Equipment within legal load limits:
 - (a) Operating on or crossing over partially completed bridge structures.
- (3) Construction cranes:
 - (a) Operating on completed bridge structures.
 - (b) Operating on partially completed bridge structures.

Any pipe culvert(s) or box culvert(s) qualifying as a bridge under 1-3 is excluded from the requirements above.

A completed bridge structure is a bridge structure in which all elemental components comprising the load carrying assembly have been completed, assembled, and connected in their final position. The components to be considered shall also include any related members transferring load to any bridge structure.

The *Contractor's Engineer of Record* ~~Specialty Engineer~~ shall determine the effect that equipment loads have on the bridge structure and develop the procedures for using the loaded equipment without exceeding the structure's design load capacity.

Submit to the Department for approval eight copies of design calculations, layout drawings, and erection drawings showing how the equipment is to be used so that the bridge structure will not be overstressed. The *Contractor's Engineer of Record* ~~Specialty Engineer~~ shall sign and seal one set of the eight copies of the drawings and the cover sheet of one of the eight copies of the calculations for the Department's Record Set.