

ORIGINATION FORM

Specification: 502-1
Subject: Shear Connectors, Description
Origination date: 8/19/08
Originator: Steven Plotkin
Phone: 904-360-5501

Problem statement:

Currently, a specification change is required in order for Contractors to be authorized to furnish and install shear connectors in the fabrication plant for steel beams in lieu of field installation which is currently required by the specification. This causes unnecessary administrative effort for the Contractor and Department since plant installation has been routinely authorized for years based on a State Structures Design Memo issued on 3/29/08~~2~~ which allows this practice if the Contractor complies with OSHA fall protection requirements. Also, the quality of plant installation is better.

Proposed solution:

Add a provision in the specification that allows fabrication plant installation of shear studs with the condition that the Contractor must fully comply with OSHA fall protection requirements for workers.

Information source:

State Structures Design Office Memorandum # C02-07, 3/29/2002, Subject: OSHA's Final Rule on Steel Erection

Recommended Usage Note: Standard spec that applies to all steel beam projects.

Estimated fiscal impact, if implemented: Administrative costs for the Department and Contractor will be saved.



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

M E M O R A N D U M

DATE: October 28, 2008

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: **5020100, Shear Connectors- Description**

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

This change was proposed by Steve Plotkin to permit installation of shear studs in the fabrication plant with the condition that the Contractor comply fully with OSHA fall protection requirements for workers.

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 December 1, 2008 may not be considered. Your input is encouraged.

RP/dr
Attachment

SHEAR CONNECTORS - DESCRIPTION.
(REV 10-16-08)

ARTICLE 502-1 (Page 571) is deleted and the following substituted:

502-1 Description.

Furnish and install welded shear connectors on steel beams and girders at locations shown in the Contract Documents. Field weld shear connectors located on the top flange only after the deck forms are in place. ~~Do not place shear connectors located on the top flange at the fabrication plant.~~ *However, if workers who walk on the top flange of erected girders have 100% fall protection in compliance with OSHA requirements, shear connectors located on the top flange of girders may be furnished and installed in the fabrication plant.*