State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

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To: DES DEPUTIES
Division of Engineering Services

Date: October 22, 2012

From: Barton Newton
Deputy Division Chief
Structure Policy and Innovation
DIVISION OF ENGINEERING SERVICES,

Subject: Update to *Memo to Designers* 11-31 "Curved Post-Tensioned Bridges"

Memo to Designer (MTD) 11-31, "Curved Post-Tensioned Bridges ", updated October 2012, is effective immediately. This updated memo addresses the details for bridges built with horizontal curvature and requiring duct ties.

This memo was previously revised February 2010 to incorporate many of the findings in the NCHRP Report 620. However, constructability issues soon arose with placement of duct ties and stirrup ties at locations where tendons splay out from each other. Difficulties occurred in transitioning between the current MTD 11-31 Detail 'A' and Standard Plan B8-5.

This revised MTD 11-31 is intended to simplify construction by no longer recommending the use of a stirrup tie. This new memo introduces a duct tie that hooks around the duct and stirrup together. Additionally, there is no longer the need to place a duct tie around multiple ducts. Construction in areas where the tendons spread out vertically is simplified.

This updated MTD 11-31 is required on all projects not yet type-selected and may be used as a reference on those beyond Type Selection. Redesign or Contract Change Orders are not required solely due to the content of this MTD.

Consultants and Local Agencies who have questions or concerns on the application of MTD 11-31 should contact their Structure Liaison Engineer. Caltrans staff may contact the Post-Tensioned Concrete Committee Chair, Marc Friedheim, at 227-8480.

Attachment:

cc: Terry Abbott - Division of Design
Denix Anbiah - Division of Local Assistance
Dolores Valls - Structure Maintenance and Investigation
Karla Sutliff - Division of Engineering Services
Marc Friedheim - Technical Committee Chair
Susan Hida - Technical Manager