

State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Memorandum

*Serious drought.
Help save water!*

To:

Date: August 11, 2016

JEFF WILEY, Deputy Division Chief, Structure Design
STEVE ALTMAN, Deputy Division Chief, Structure Construction
SHIRA RAJENDRA, Deputy Division Chief, Program/Project &
Resource Management
ROBERTO LACALLE, Deputy Division Chief, Materials Engineering
& Testing Services &/Geotechnical Services
DOLORES VALLS, Chief, Structure Maintenance And Investigation

From:

THOMAS A OSTROM
State Bridge Engineer
Structure Policy & Innovation
Division of Engineering Services

*Shannon
Post for*

Subject: **CONSTRUCTION SPECIFICATIONS FOR BRIDGE DECK CRACK PREVENTION**

The Bridge Preservation and Concrete Committees have developed new construction specifications to reduce concrete bridge deck cracks caused by volumetric changes of concrete, see attached. The new construction specifications should significantly reduce long-term costs associated with the repair of deck cracking and mitigate safety risks associated with use of methacrylate currently used for crack repair.

For projects that have not been advertised, the plans, specifications and estimate must be updated to include the new specifications.

For projects that have been advertised, the Project Engineer shall request that an addendum be issued to incorporate the revisions. See "Structure Design Alert".

For projects in construction, it is recommended that these changes be incorporated by Contract Change Order, if it is administratively appropriate.

Forward technical questions related to the crack-less deck specifications to Craig Knapp, Concrete Committee Chairperson, at 916-227-8554.

Attachments:

- 1) Construction Special Provisions 51-1.01C(1), 51-1.02B, 51-1.03H, 90-1.01C, 90-1.02A, and 90-1.02K
- 2) Structure Design Alert, Concrete Bridge Decks, March 18, 2016

c: Michael D. Keever, Chief, Division of Engineering Services
Craig Knapp, State Bridge Engineer Support
Erol Kaslan, Structure Maintenance & Investigations
Don Reding Jr., Structure Quality Management
Michael Lee, Structure Maintenance & Investigations
Structure Design Office Chiefs
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