

## Memorandum

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Be energy efficient!*

To: DES DEPUTIES  
Division of Engineering Services

Date: February 4, 2014

From: BARTON J. NEWTON  
Deputy Division Chief  
Structure Policy and Innovation  
Division of Engineering Services

T.A.O.  
for

Subject: **MEMO-TO-DESIGNERS 15-19 "BRIDGES WITH SKEWED SUPPORTS"**

*Memo to Designers* (MTD) 15-19 "Bridges with Skewed Supports" clarifies the preparation of the analysis model for skewed bridges and applicability of the shear correction factors.

As a result of this memo, the analysis procedures will be simpler and uniformity of practice achieved. This revised procedure does not imply a lower or higher level of accuracy but a more logical approach to simplified analysis of bridges with somewhat complex geometry and skewed supports.

The CT-Bridge program is compatible with this procedure. Engineers shall evaluate software specific to other bridge types for compatibility with this procedure.

MTD 15-19 is effective immediately and shall be incorporated into ongoing projects unless this will impose a significant delay in the project schedule or a significant increase in the project engineering or construction costs.

For questions or concerns on application to a specific project, consultants/local agencies should contact the appropriate DES Liaison Engineer. Caltrans staff may contact Toorak Zokaie, Structural Analysis Technical Committee Chair at (916) 227-8579.

### Attachment

(1) MTD 15-19 Bridges with Skewed Supports.

c: Tim Craggs – Division of Design  
Ray Zhang – Division of Local Assistance  
Bob Pieplow – Division of Engineering Services  
Dolores Valls – Structure Maintenance and Investigation  
Tom Ostrom - Technical Manager  
Toorak Zokaie – Technical Committee Chair