



## A Precast Bridge Bent System for Seismic Regions

### Description

#### Meta Fields

**Project Completion Year :** 2013

**Project Starting Year :** 2013

**Other Documents 0 Other Documents File :** 2077

**Primary Sponsor Contact Info :** Federal Highway Administration (FHWA) Highways for LIFE Technology Partnerships Program 1200 New Jersey Avenue, SE Washington, DC 20590 USA

**Budget :** 0.00

**Key Words :** Bents; Concrete bridges; Earthquake engineering; Earthquakes; Precast concrete; Structural connection

**Abstract :** This report describes a precast concrete bridge bent system that is suitable for high seismic zones. Lateral load tests on both the top (column-to-cap) and bottom (column-to-footing) connections of the system have demonstrated that the connections have strengths and ductilities similar to those of comparable cast-in-place connections. Additional tests on the bottom connection of the system are ongoing, and construction of a demonstration bridge project will begin later this year. The final development of this system is partially funded by the FHWA's Highways for LIFE Technology Partnerships Program (DTFH61-09-00005). Information on both the Highways for LIFE program and this project may be found at <http://www.fhwa.dot.gov/hfl/>.

**Subject :** Bent Cap

**Group :** Seismic

**Category :** Completed Projects