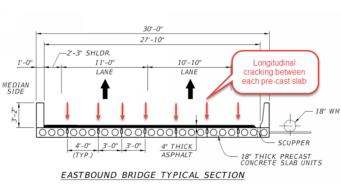
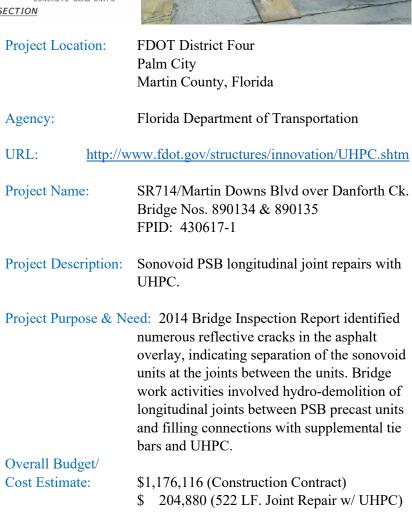
# FDOT Transportation Innovation Initiative: UHPC – Design Innovation



Fast Facts: Ultra-High Performance Concrete

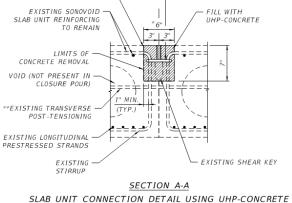




What was unique about this project?







First use of UHPC for existing sonovoid PSB joint repairs in Florida.

### Describe Traditional Approach:

Traditional approach includes using hooked and lacing reinforcing bars within wider concrete closure pours using high early strength concrete.

# Describe New Approach:

Exposure of existing reinforcing bars by hydrodemolition, with addition of supplemental tie bars enclosed in a UHPC closure pour.

# Top Innovations Employed:

Utilization of UHPC connections for rapid and robust repair of damage longitudinal joint connections.

### Primary Benefits Realized/Expected:

More robust and longer service life from UHPC connections. Short closure time for intrastate highway system bridges.

Project Start Date/Substantial Completion Date: 06/16/2016 – 02/21/17

Affiliations:

PE Consultant: Construction Contractor: Construction Engineering Inspection:

Project Contact:

Engineer of Record:

FDOT Project Manager:

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