Project No. 0058-087-611, N501
US 58 West Bound
Southampton County
Hampton Roads District

Existing Pavement:
- Four-lane divided, rural highway
- Total project length is approximately 5.25 miles
- Majority are CRCP (4.77 miles) constructed from 1986 to 1988
- Some JRCP (0.48 mile) constructed in 1952
- AADT: 8,300 with 14% truck (2009)
- 2011 IRI: 132 for CRCP and 173 for JRCP

Project Highlights:
- Three pavement rehabilitation techniques: unbounded overlay on CRCP, bonded overlay on CRCP and reconstruction of JRCP
- Unbounded concrete overlay on CRCP
  - 7-in. thick
  - 1-in. Porous Friction Course (PFC) as the separation layer with drainage capacity
  - 6-ft X 6-ft joint spacing without dowel bars
- Bonded concrete overlay on CRCP
  - 4-in. thick
  - Surface preparation including full-depth patching and shot blasting
  - Reduced grade change
- Reconstruction of JRCP
  - 11-in. thick jointed plain concrete pavement
  - 15-ft joint spacing with doweled joints
  - 10-in. aggregate subbase
- Challenging MOT with many crossovers and accesses
- Very tight construction schedule: contract executed on May 22, 2012 with completion date on September 21, 2012
- On-going research by VCTIR to continuously monitor the project through construction and for long-term performance
- FHWA Concrete Mobile Lab on site for both the bonded and unbounded concrete overlay construction
OPEN HOUSE AGENDA

Moderator: Chung Wu, VDOT Hampton Roads District Materials Engineer

10:00 AM: Welcome; Mike Davis, VDOT Hampton Roads District Construction Engineer

10:05 AM: Overview of Open House (program and field trip); Chung Wu, VDOT; Bob Long, ACPA

10:15 AM: FHWA Technology Transfer Program and Concrete Overlays; Sam Tyson, FHWA Office of Pavement Technology; Kurt Smith, Applied Pavement Technology, Inc.

10:40 AM: Concrete Pavements in Virginia; Mohamed Elfino, VDOT Materials

11:05 AM: Construction of Overlays on US 58: Contractor Perspective – Lowell Jensen, Hi-Way Paving; Project Staff Perspective – Bobby Baker, NXL Construction Services, Inc.; Construction Summary – Tom Tate, VDOT Materials


12:30 PM: Lunch

1:15 PM: FHWA Mobile Lab Testing; Jagan Gudimettla, FHWA Project Engineer

1:45 PM: Depart for Site Visit

3:30 PM: Return for Wrap-up and Questions