



By FDOT, Presenter Nate Willbur, P.E.

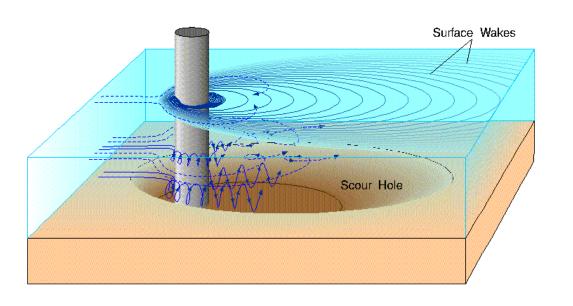


### **History**

• Built in 1985

Constructed by Developer

- 1987 the U.S. Started reviewing and measuring Scour
  - New Criteria for Scour Established





### **History**

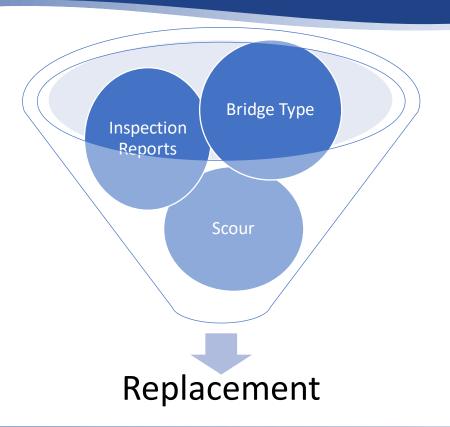
- In 2013, FDOT determined this bridge was Scour Critical
- Yearly inspection and after severe storms
- Prepare a Contingency in case of Emergency Closure
- Determined it needed to be Replaced





# Why Replace the Bridge and not Repair it?



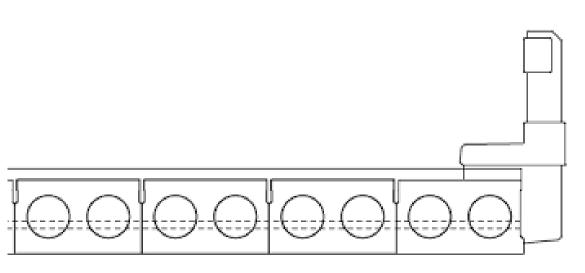




### **Existing Bridge Type**

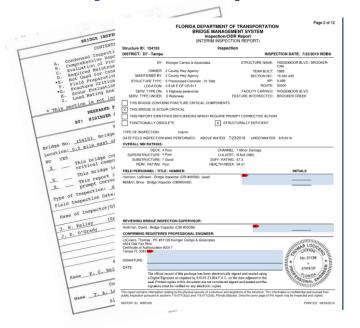
 Voided Slab Beam or Sonovoid Slab Beams Bridge

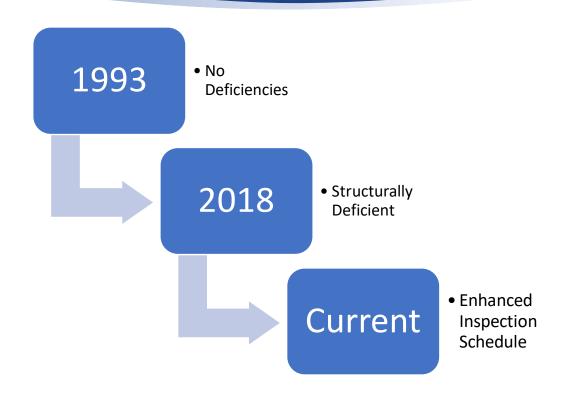
Top Asphalt Surface





### **Inspection Reports**







#### Scour

This Bridge is Scour Critical

Increased Risk of Scour



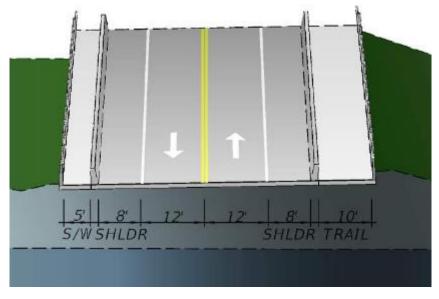


### **New Bridge**

Replace within the same footprint.

Adding a 10-foot Multi-Use Trail

- Different Bridge Type
  - Concrete Precast Prestressed Bridge





#### **Construction**

Expected 1 ½ to 2 years of Construction

• The new bridge is being built in phases

Use of Automated Flagger Expected

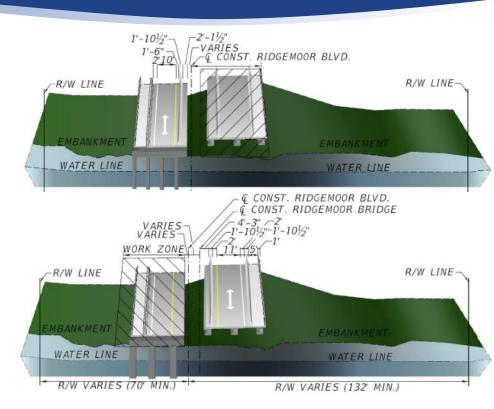




#### Construction

- Reviewed a full shut-down and detour
  - Emergency response times were determined to be too long

Half and Half Construction





### **Project Costs**

- Design, Construction, CEI
  - ~\$6.7 Million
- Funding
  - Federal Funds
    - \$3.7 Million
  - Local Funds
    - ~\$3.0 Million





#### **Benefits**

Smoother Riding Surface

Added a 10' Multi-Use Trail

Regular 24-month Inspection Cycle

Meets all Current Criteria

