Project Title: C-05-09 : FRP Bridge Deck Repair Procedure
PIN: R020-70-881,
Responsible Unit: Program Support Division/Structures Division
Project Manager: Alampalli, Sreenivas

Project Goal:
Develop a repair procedure for existing FRP decks.

Actions Proposed:
Several FRP Bridge decks of honeycomb configuration were built in the New York State on an experimental basis. Most of these decks have had ongoing, or intermittent problems with their wearing surfaces. One of the primary functions of the wearing surface on this type of structure is to provide protection from exposure to environmental issues like UV and water damage. These types of environmental factors can damage the FRP layers. If not repaired appropriately, this damage can propagate and can cause deck failures.

One of the FRP deck on BIN 2215500, which carries S. Broad St. over Dyke Ck. in the Village of Wellsville has two areas of structural delamination of the top skin of the deck on this structure. These two problem areas could conceivably grow under freeze/thaw action to the point that closure is required. This deck is very similar to two others in the Region 6. For this reason it would be valuable for the department to invest in developing an appropriate repair procedure in order to better understand the repair options for this type of structure.

The investigator should work with project managers and the field staff to coordinate the inspection of the damage and subsequent repair of the deck.

Anticipated Work Products and Accomplishments:
Develop an appropriate repair procedure for the FRP Bridge deck with top skin delamination and provide adequate documentation to the project managers for the future

Proposed Budget: $16,500