



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

UTC Project Information	
Project Title	Upgrading Capacity and Protecting Concrete Columns Against Corrosion
University	Florida International University
Principal Investigator	Atorod Azizinamini
PI Contact Information	aazizina@fiu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	ABC-UTC funds: \$120,000 Match funds : \$60,000
Total Project Cost	\$180,000
Agency ID or Contract Number	69A3551747121
Start and End Dates	May 15,2023 – May 31,2024
Brief Description of Research Project	This research project focuses on developing effective techniques to upgrade concrete bridge columns and protect them against corrosion. By utilizing full encasement with Ultra-High-Performance Concrete (UHPC), the project aims to enhance the capacity and durability of existing columns, particularly in coastal areas. Through a combination of experimental testing, numerical analysis, and the creation of an ABC-UTC guide, the research will provide practical solutions for state departments of transportation and bridge engineers to effectively upgrade and safeguard concrete bridge columns.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The outcomes will be tracked and reported once they are identified.
Impacts/Benefits of Implementation (actual, not anticipated)	The impacts will be tracked and reported once they are identified.

Web Links

- Reports
- Project website

[Upgrading Capacity and Protecting Concrete Columns Against Corrosion | Accelerated Bridge Construction \(fiu.edu\)](#)