CASE STUDY

# NATIONAL GUARD ARMY CORPS OF ENGINEERS – DOUBLE T PARKING GARAGE STRENGTHNENING WITH CARBON FIBER

JOINT FORCE HEADQUARTERS, ARLINGTON, VA


Select areas of the inverted T-beams on the east and west garages at the Joint Force Headquarters of the Army National Guard in Arlington, VA were in need of repair.

The Army Corps of Engineers investigated the damage and put together a repair plan utilizing Fiber Reinforced Polymer (FRP) for the repairs. Bright Construction Group out of Fairfax, VA was awarded the project and enlisted the services of Structural Reinforcement Solutions to provide the structural strengthening materials for the project.

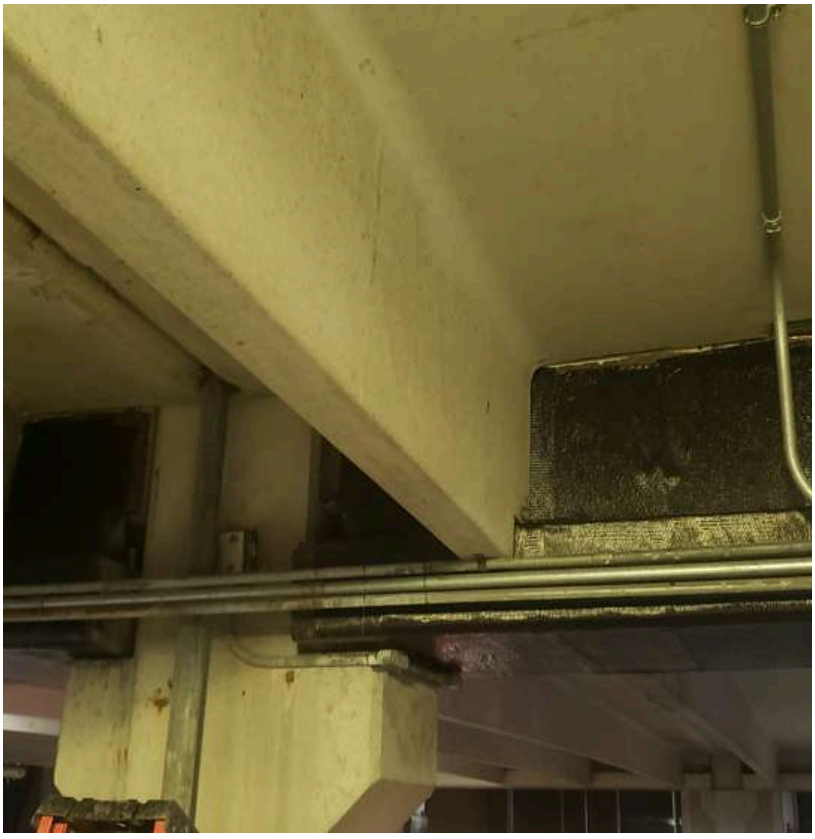
The project primarily involved the installation of Carbon Fiber Reinforcing Polymer (CFRP) on selected inverted T-beams to enhance structural reinforcement.This advanced material played a crucial role in strengthening support structures, ensuring stability, and improving load distribution.

CASE STUDY

# CARBON FIBER STRENGTHENING SYSTEMS

## BUILDING STRENGTH ENSURING STABILITY


SRS worked with Bright Construction to get the SRS-600UNI, a unidirectional carbon fiber reinforced polymer (CFRP) approved for this installation. “U” wraps were specified for the inverted T-beams in order to repair and increase the shear capacity on the end spans of select beams where cracking was present. The addition of the CFRP, a surface applied, non-invasive, strengthening solution, is a great way to address damaged components and restore their structural capacity.



By utilizing these advanced materials, the Army Corps of Engineers, in collaboration with Bright Construction and Structural Reinforcement Solutions, was able to make the repairs to the East and West Garages to ensure their safe and extended use for years to come.

**Learn more at Structuralrs.com**

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