



RHINO
CARBON FIBER
REINFORCEMENT PRODUCTS

CFRP CASE STUDY

STADIUM SUPPORT COLUMN REPAIR



LOCATION

Jasper, Indiana

CLIENT

LAN Concrete Technology

PRODUCTS USED

- Rhino Carbon Fiber™ CFRP (Bidirectional): 560 GSM, 12" Wide
- RCF™ Saturant-Adhesive Epoxy

CASE BACKGROUND

The LAN Concrete Technology company was awarded the contract to repair and reinforce cracking concrete supports for the bleachers at Alumni Stadium in Jasper, Indiana. The project consisted of encasing 58 concrete supports, but due to access issues and a tight construction schedule, this was not an easy task. The LAN Concrete Technology company recognized that the project would be a good candidate for a CFRP repair.



THE SOLUTION

The concrete supports were badly deteriorated and in need of repair, and the LAN Concrete Technology company determined the supports would be excavated one foot below grade so that CFRP could be installed around each support. The supports were wrapped with 560 GSM, 12" wide **Rhino Carbon Fiber™ CFRP (Bidirectional)** and applied with **RCF™ Saturant-Adhesive Epoxy**. This method repaired and strengthened the supports, effectively restoring the integrity of the structure. After the CFRP installation, the supports were coated in a UV Resistant Coating which made the repairs look aesthetically pleasing. By using **Rhino Carbon Fiber™** products, the LAN Concrete Technology company was able to eliminate the access issues with transporting concrete to each one of the support locations and was able to provide an aesthetically appealing CFRP repair.



CRACKED CONCRETE SUPPORT



1 FOOT BELOW
GRADE EXCAVATION



CRACKED CONCRETE SUPPORT



COMPLETED REPAIR



COMPLETED REPAIR