



# Project Overview

## FRP REPAIR OF CORRODED PEDESTALS OF A COOLING TOWER

**Name:** Tucson Main Library  
**Type:** Office Building  
**Location:** Tucson, Arizona  
**Completed:** June 2005

### PROBLEM

Leaking of water from the cooling tower located on the roof had resulted in severe corrosion damage to the four concrete pedestals that supported the tower.

As part of the replacement of the cooling tower with a new one, the pedestals required to be repaired and protected against future damage by corrosion.



### SOLUTION

QuakeWrap® FRP Repair System was selected since it provides an air tight seal that effectively prevents future corrosion.

All deteriorated concrete was removed and the pedestals were finished with a polymer modified concrete. QuakeWrap® composite glass fabric was used to fully encase the pedestals, preventing them from contact with water from the cooling tower.



## Technical Highlights

- Cooling tower concrete pedestals were damaged by corrosion due to lack of maintenance.
- Repair required protection against future contact of the pedestals and water.
- Repair with composite glass fabric was completed in one day.

## Credits

Consultant: Schneider & Associates, Tucson, AZ  
General Contractor: Environmental Strategies, Inc., Tucson, AZ



*“The FRP Retrofit Experts”*