

Hudson River, NY & NJ

PATH Subway Tunnels Concrete Mat Protection



Owner/Client: Port Authority Trans Hudson Corporation

Year Complete: 2011

Scope of Work: Fabrication, Construction

Project Cost: \$48.9 Million

Fabrication and installation of over 300 erosion control mats over the PATH subway tunnels in the Hudson River between New York and New Jersey to protect the near-exposed subway tubes from terrorism.

The proprietary composite mats were composed of 6" thick concrete blocks tied together with wire rope and sandwiched between 2 poly-urea coated geotextile fabrics. The 122-130 ton mats, up to 110' long, were installed using the Weeks-532, a 350-ton capacity crane barge. A custom lift frame using a GPS system accurate to within 6" was used to remotely release the mats on the river bottom. Weeks Marine was able to shorten the project duration by several months through innovative design changes and production techniques.