

DATE: January 2009
Division: North Atlantic
District: Philadelphia

CONTINUING AUTHORITIES PROJECT FACT SHEET

Project: Manasquan River, Howell Township, NJ-PWI #092395. Congressional District: NJ-04

Authority: Section 14, Flood Control Act of 1946, as amended; Emergency Stream Bank and Erosion Protection

Location: The project is located along Bergerville Road (aka Casino Drive) in Howell Township, Monmouth County, New Jersey. It is located approximately 40 miles east of Trenton.

Problems, Needs and Opportunities: Bergerville Road borders the Manasquan River in Howell Township along the right bank for approximately 150 feet. Approximately 250 linear feet of bank is experiencing severe erosion at the toe, creating a vertical scarp of fifteen to twenty feet high at the base of the slope. The slope of the bank above the scarp is steep and extends approximately three to six feet from the edge of the road. If erosion is allowed to continue, the roadway will be further undercut with road failure likely to occur within five years. Howell Township has done emergency roadwork at the site several times.

Alternative Plans Considered: Under the existing situation (do-nothing alternative), the embankment and road shoulder would continue to fail requiring periodic stopgap emergency measures or possibly failing catastrophically creating a serious threat to motorists and school buses utilizing the road. A total of seventeen alternatives covering five different categories from bank stabilization to road and stream relocation were considered. Bank protection alternatives investigated several construction techniques including riprap, gabion baskets (stone-filled wire baskets), interlocking concrete armor units, concrete mattresses and cellular confinement systems.

Description of Recommended Plan: The proposed plan consists of a retaining wall constructed of Cellular Confinement System (CCS) grids along the right bank of the Manasquan River parallel to Bergerville Road (also known as Casino Drive) for a distance of approximately 250 feet. The wall will be constructed of 6 foot deep by 8-inch high confined cellular grids stacked to a height of 11 feet. Toe protection to prevent undermining of the CCS retaining wall will be provided by 18 inch deep by 20 foot wide leveling material and CCS scour apron placed perpendicular to the wall.

Views of Sponsor: The Non-Federal Sponsor is Howell Township, New Jersey. The Sponsor has endorsed the proposed project and believes it will improve public safety and provide necessary protection to public infrastructure. The Sponsor has expressed a willingness to meet cost-sharing requirements and has indicated that sufficient funds are available to pay for the non-Federal share of the project.

