EROSION CONTROL  
Product: **RENO MATTRESS**

**Summary**
*Hurricane Sandy struck New York City and its surrounding area in the late summer of 2012. In 2017, the area is still recovering and continuing to update critical infrastructure necessary to sustain the impact of the next big storm. The Hunter Ave. Infrastructure Upgrade project is just another example of the continuing effort by the NYC Department of Design and Construction’s efforts to restore the area back to normal.*

**Problem**
Hurricane Sandy struck the New York City area in 2012, leaving behind extensive damage and major flooding in many parts of the city and surrounding islands. In 2017, authorities continue to ensure the protection of infrastructure from future storms. Located along Hunter Ave, within the New Creek Blubelt watershed, close to the Midland Beach section of Staten Island, this project was intended to provide relief to the low lying, flood prone area.

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**Client:**
NYC DEPT. OF DESIGN & CONSTRUCTION

**Main Contractor:**
JZ CRUZ CORP.

**Designer:**
HAZEN & SAWYER

**Products used:**
RENO MATTRESS

**Date of Construction:**
AUGUST 2017 - SEPTEMBER 2017
Solution
To ensure protection of this low lying area from future flooding, the project included the installation of new sanitary sewers, storm sewers, water mains, and four Reno Mattress lined culverts to control erosion and move water away from the roadway.

The 12x6x9" PVC Reno Mattresses were used to line four overflow detention ponds. The intent of the Reno Mattresses to prevent erosion along the sides of the overflow basins. During a storm event any excess water will be discharged from the storm sewer weir tanks and into these overflow basins.

Maccaferri products were chosen for this project due to similar successes with Reno Mattresses in the area. This is Maccaferri’s fourth project with the NYC Department of Design and Construction in the borough of Staten Island where Reno Mattresses were the preferred specified products to be utilized for stormwater management project.

Maccaferri has provided superior on-site customer support during each of these projects, lending our technical expertise to the design engineers when needed.

Site engineers from the NYC Dept. of Design and Construction have used Maccaferri Gabions and Reno Mattresses on numerous projects and continues installing them because of their durability and design life needed for these applications.

Click here to contact our technical department for assistance on your project.