

CASE STUDY

Rockaway MTA Line

Storm Repair to Mass Transit – New York City, New York

Hurricane Sandy brought historic storm surges up the eastern United States coastline in October 2012. Water levels around metropolitan New York City — the economic pulse of the country with nearly 20 million people — measured 14 feet above normal tide levels, overwhelming vulnerable oceanside communities. One of the hardest hit areas was the Rockaways section of the Queens borough on western Long Island.

Encroaching flood waters from nearby Jamaica Bay covered commuter train tracks with more than four feet of water, disabling nearly four miles of a 70-foot-wide area along the Metropolitan Transportation Authority (MTA) regional train line route that carries over 30,000 passengers per day into New York City.

The MTA and the Port Authority scrambled to repair the line at the breach points. By working closely with Nucor, Nucor Skyline’s parent company and coil supplier, Skyline was able to produce and deliver almost 29,000 square feet of sheet piles to the site within six days of the order. Despite the holiday week, just ten days after the SKZ 24 steel sheet piles — at 50-foot lengths — were ordered; concrete was being poured between 575 feet of newly driven walls to act as the base for the tracks. The timeliness of the steel shipment ensured the MTA’s accelerated construction schedule was met and a vital commuter line to New York City was closer to resuming daily operation.

Two months after that initial shipment, the MTA finalized plans to install an 11,000-wall foot steel sheet pile structure alongside the length of train track damaged by the storm. The organization again turned to Skyline to



Project Timeline



supply a preventative measure against future storm damage, this time in the form of SKZ 31 sheets cold rolled at 40-foot lengths. The ASTM A-690 steel was selected for its durability in marine environments.

PRODUCT

350 tons of SKZ 24 steel sheet pile;
7,000 tons of SKZ 31 A690