



## Governor's Office of Storm Recovery

**ANDREW M. CUOMO**  
Governor

### **Mastic Beach Drainage Improvements Project**

Roadways within the Hamlet of Mastic Beach,  
Town of Brookhaven, Suffolk County, New York

The Mastic Beach Drainage Improvements Project (Project) will involve drainage improvements at eight (8) locations (Project Sites) within the census-designated place of Mastic Beach, Town of Brookhaven, Suffolk County, New York. The proposed Project will improve the ability of existing drainage systems to manage stormwater runoff and prevent backflow of seawater into the systems. Drainage systems are located along and adjacent to existing roadways that are primarily in residential areas. Contractor staging and storage areas will be coordinated with the Town of Brookhaven.

The individual Project Sites and the improvements proposed at each Project Site will include the following:

Gooseberry Road (DS-11): Removal and replacement of existing drainage pipes and structures; re-sizing and adjusting pipe invert elevations to improve system conveyance capacity; and restoring asphalt pavement and grassy areas to match existing conditions.

Maywood Drive (DS-12): Removal and replacement of the existing drainage system; re-sizing and adjusting pipe invert elevations to improve system conveyance capacity; restoring pavement to match existing conditions.

Hickory Road (DS-13): Removal and replacement of the existing drainage system; re-sizing and adjusting pipe invert elevations to improve system conveyance capacity; installation of a check valve prior to outfall into downstream waterbody.

Riviera Drive (DS-14, DS-15 and DS-16): Removal and replacement of portions of existing drainage systems at multiple locations on Riviera Drive; re-sizing and adjusting pipe invert elevations to improve system conveyance capacity; installation of a check valve prior to outfall into downstream waterbody; restoring pavement to match existing conditions.

Floral Court (DS-17): Removal and replacement of existing catch basin with a larger drainage structure; installation of check valve prior to outfall into downstream waterbody; restoring pavement to match existing conditions.

Neighborhood Road (DS-24): Removal and replacement of the existing drainage system; re-sizing and adjusting pipe invert elevations to improve system conveyance capacity; and installation of a water quality treatment device prior to discharge into downstream water body; restoring pavement, sidewalk and curb to

match existing conditions. Curb ramps will be installed to meet ADA requirements. Part of the existing Neighborhood Road stormwater infrastructure may potentially remain in place; this section is illustrated in the alternate design plans.

Disturbed wetland areas will be restored by re-planting hydrophytic and salt-tolerant vegetation. Best management practices (BMPs), such as the installation of silt fence and drainage inlet sediment bags, will be employed during construction to prevent detrimental environmental impacts.

**Statement of Purpose and Need for the Proposal** [40 CFR 1508.9(b)]:

On October 29, 2012, Superstorm Sandy slammed into Mastic Beach, bringing rain, wind, and record-high storm surge that flooded much of the Community. In addition to flooding, trees were downed, power was lost, and homes damaged. Mastic Beach First Assistant Fire Chief Carlo Grover reported that over 100 emergency rescues were made – some by boat – as seawater inundated the Community.

Suffolk County reported that between 60 and 80 homes in Mastic Beach and Smith Point of Shirley were deemed either unlivable or condemned due to structural damage. Many hundreds more homes were damaged to such an extent that residents could no longer occupy them. Since Mastic Beach does not have sanitary sewers, floodwaters wreaked havoc with residential on-site wastewater systems. The inundation of septic systems rendered many of them inoperable, presenting significant health and safety issues for the Community. Not only were these systems not functioning, but they were also releasing thousands of gallons of raw, untreated wastewater into the Community and local waterways.

**Existing Conditions and Trends** [24 CFR 58.40(a)]:

The Project Sites are located within the census-designated place of Mastic Beach, Town of Brookhaven, Suffolk County, New York. Mastic Beach is located on a peninsula extending into Moriches Bay, and is located on the southern half of the Town of Brookhaven. The Town of Brookhaven is the most populous of the ten towns of Suffolk County, stretching from the north shore to the south shore of Long Island.

Flooding of Mastic Beach during Superstorm Sandy was exacerbated due to stormwater runoff and backup of seawater into stormwater drainage systems. A number of the neighborhoods experienced roadway flooding during the storm that extended onto private properties. Some areas continue to flood at higher high tides and during heavy rainfalls. Many of the existing recharge basins are ineffective due to the high groundwater elevation. The Project will make it possible for the Town to address long standing flooding issues that will only become worse as the climate changes. The proposed Project will improve stormwater collection and recharge will eliminate flooding from stormwater runoff in all but the most severe storm events. The associated risk to public and private assets will be reduced and roadways utilized for evacuation made passable and safer.

The Project will help to mitigate future damages to the area caused by flooding during future storm events, which will sustain area property values and community character. It enables continued viability of the Mastic Beach, which will continue to deal with repeated flooding associated with future flooding events without support to implement improvements that minimize flooding and damages from storm events.