



COMPREHENSIVE BAYSIDE PROTECTION

North Shore Bulkheading Update

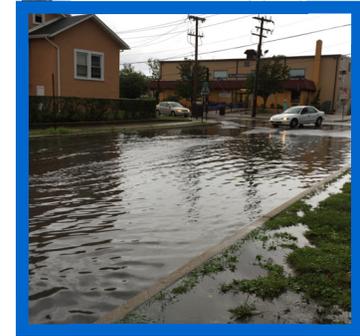
Learning from the lessons of Sandy, achieving long term resiliency for a stronger, smarter, safer Long Beach has been a top priority for the City Council. Superstorm Sandy devastated the north shore of Long Beach as the storm surge from Reynolds Channel swept over the shoreline, damaging homes, businesses and critical City facilities.

What Is A Bulkhead?

A bulkhead is a retaining wall, used to contain flooding. These man-made structures are constructed along shorelines for the purpose of controlling erosion and protecting the coast. It has been the goal of this administration to secure funding to protect our bayside.

Uniformity

The City of Long Beach participated in New York State Community Reconstruction Program (CRP), which was established to provide additional rebuilding and revitalization assistance to communities severely damaged by Sandy. The State allocated \$25 million to support the implementation of projects and activities identified by our local planning committee which included significant protection for our north shore.



Flooding in the North Park



Bulkheading on the North Shore

In 2013, the City conducted an evaluation of the bulkheading across the north shore. The City used that evaluation and filed a pre-application for the project. The City has already undertaken the RFP process for design services and is awaiting approval from the Governor's Office of Storm Recovery. New York State has advised the City that the next step in this process is filing of an application for \$12.8 million in Community Development Block Grant Disaster Relief funding. This will pay for the repairing, replacing and elevating of the bulkheads along the north shore of Long Beach to a uniform height.

Sustainability & Resiliency

Since Superstorm Sandy, the City's critical infrastructure has been upgraded with resilience: The Army Corps of Engineers dune project, 30 years in the making, get underway on the ocean side of our city; \$4M has been invested in rebuilding and improving our water system; \$5.5M has been invested in upgrading and repairing our sewer system; Nearly \$1.4M has been invested in upgrading our storm drainage infrastructure; And another \$40M for universal bayside protection has been granted by the state and federal government. The administration is moving as fast as possible to move these critical large scale projects forward.

On the north side of the City, numerous tideflex valves have been installed in the last year. These valves can minimize flooding by allowing water to flow from the streets to the bay, but not in the reverse direction.

Tideflex Valves Complete

- ✓Armor ✓Arizona ✓Curley ✓Delaware ✓Doyle ✓Dalton
- ✓Tennessee ✓Virginia ✓Wyoming ✓Kirkwood
- ✓Hagan Canal ✓Ouimet Canal ✓Sarazen Canal
- ✓Kerrigan ✓Boyd ✓Heron ✓Farrell ✓Clark ✓Lafayette



Tideflex Valve

Tideflex Valves In The Works

- ✓Franklin ✓Georgia ✓Laurelton ✓Lincoln ✓Lindell ✓Minnesota ✓Connecticut
- ✓Boat Ramp ✓Pennsylvania ✓State Street ✓Washington ✓Indiana ✓Ohio

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