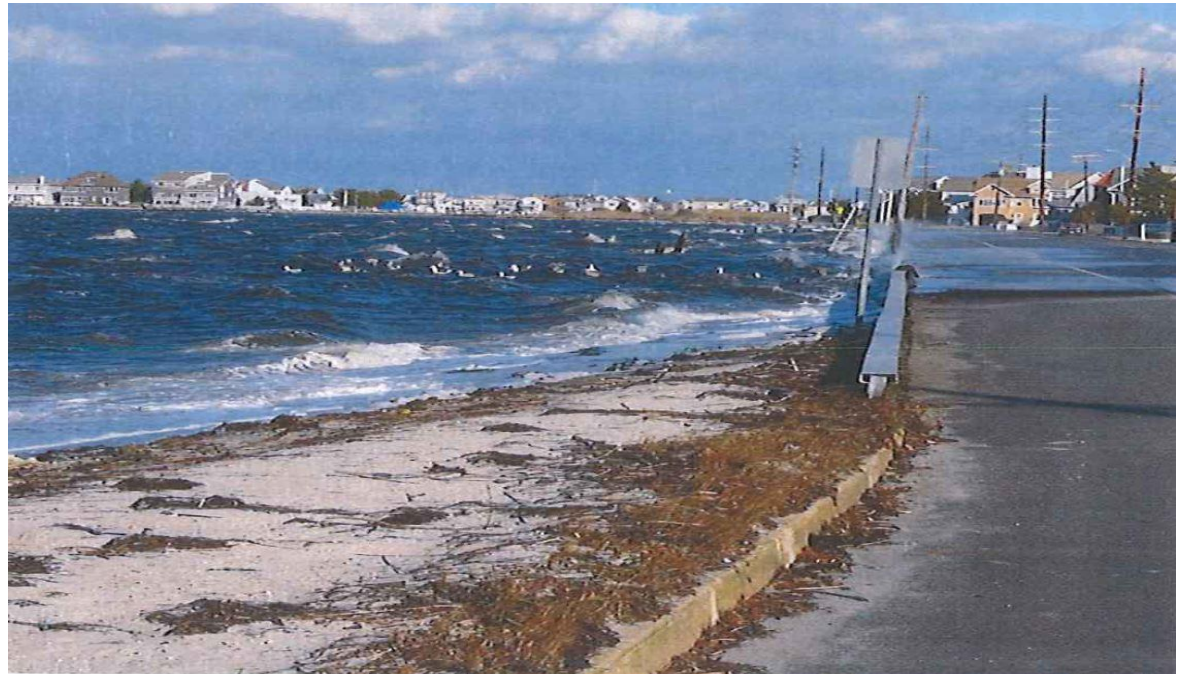


Borough of Seaside Park

Bay-Front Hazard Mitigation Project

Prepared by
Pamela Hilla
P.E., C.F.M.
Borough Engineer

March 9, 2018



**REMINGTON
& VERNICK
ENGINEERS**

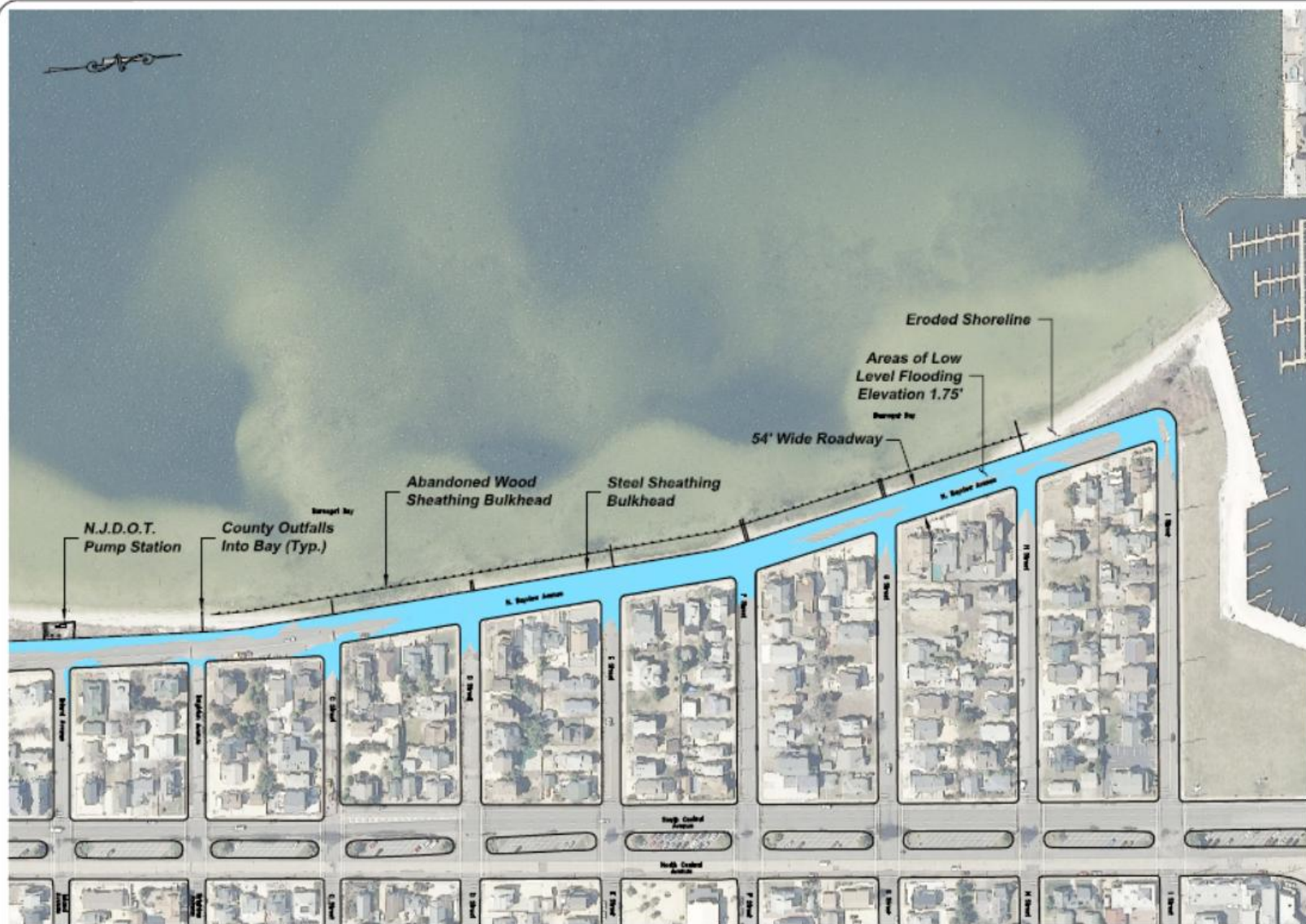
Project Limits

Extends from I Street to Brighton Avenue along North Bayview Avenue.

Why was this area targeted?

- Area is Designated as VE 9 ft
- Low-Lying Roadway Elevation = 0.75'
- Tidal Flooding
- High Energy Waves
- Erosion of the Shoreline

Existing Conditions Plan



EXISTING CONDITIONS PLAN
SCALE 1" = 40'



R
REEDER, VANDERKAM & VICKI ENGINEERS
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ENGINEERING, P.C. FIRM
1000 ROUTE 100, SUITE 100
PLAIN FIELD, NJ 07054
(908) 426-1000
WWW.REEDER-VA.COM

EXISTING CONDITIONS PLAN
REVISIONS OF EXISTING PLAN
HURRICANE WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
REVISIONS OF EXISTING PLAN
DATE: 08/01/2010
BY: JAV

Summary of Public Meeting Held on June 23, 2017

- ☐ Plan was to construct an uplands seawall that would be located landward of the existing County bulkhead. The seawall would be constructed to an elevation of 5'.
- ☐ Improve tidal flooding by redirecting the existing County outfalls to discharge into the NJDOT pump station.
- ☐ Replenish beach areas to the 1977 Shoreline. Plant native vegetation to help stabilize the beach area.
- ☐ Construct a rip-rap breakwater 25 feet into the waterway to dissipate wave action at the shoreline.

Impacts on the Design Since the June 23, 2017 Meeting

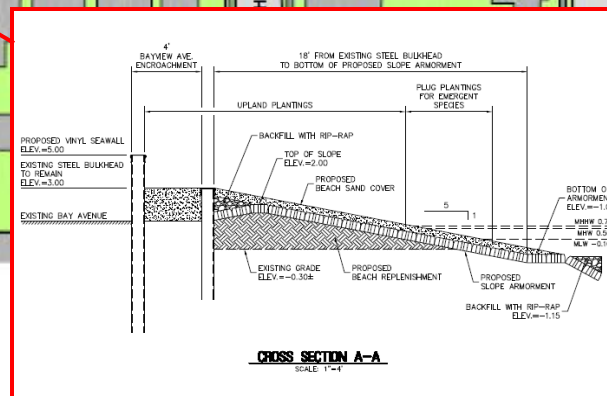
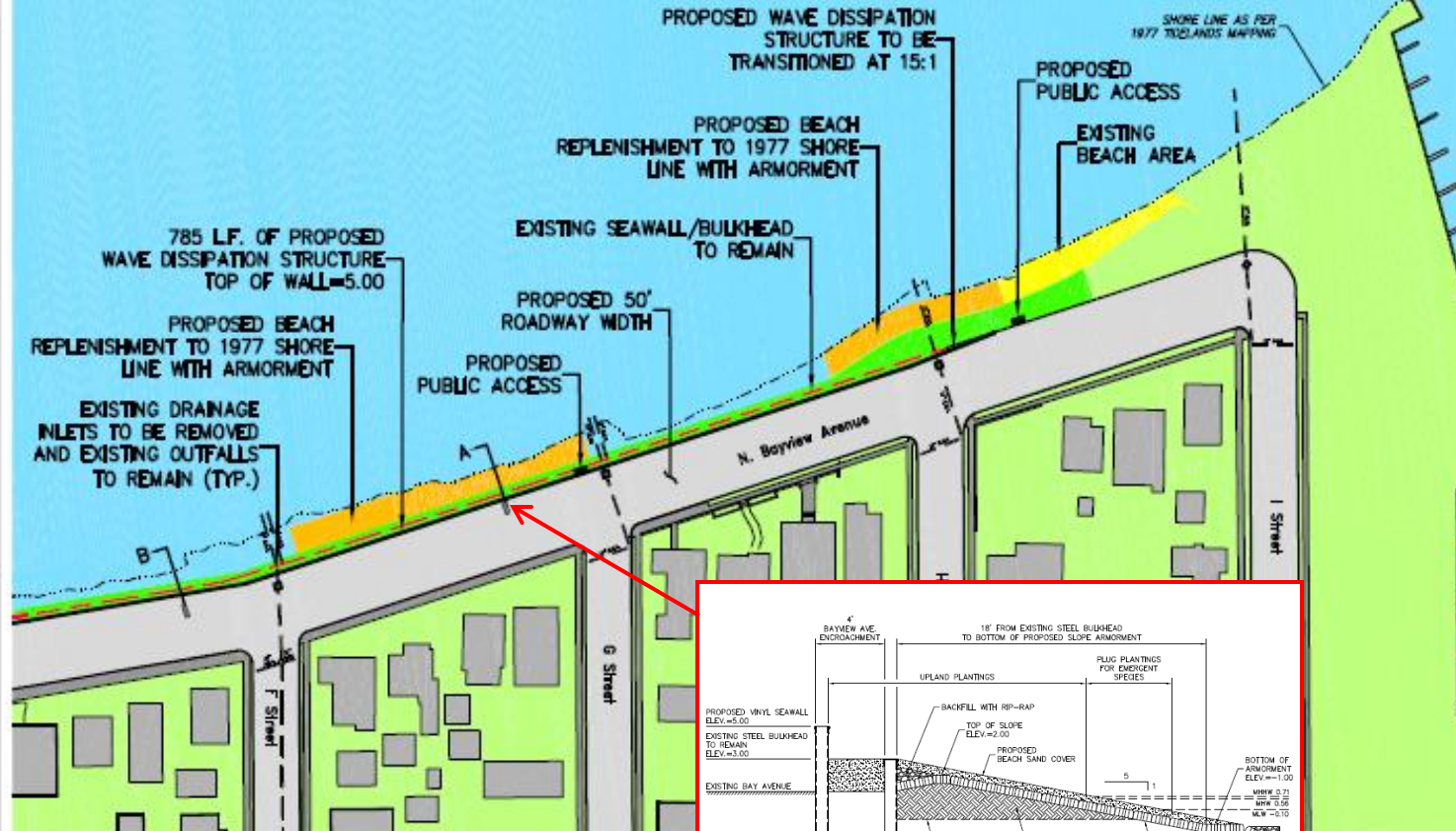
NJDOT has denied the County the ability to connect the drainage system to the existing pump station. The plan has been modified to maintain the existing outfalls along the Bayfront.

Due to limitations with funding, the proposed breakwater will not be implemented in this Phase of the project. Additional funding sources are being sought by the Borough to construct in a future Phase.

Beach replenishment is being proposed to the 1977 Shorelines, which shall be stabilized by utilizing a hybrid living shoreline design. Articulated concrete matting along with planted vegetation shall be utilized for stabilization.

Proposed Conditions

Barnegat Bay



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—ENGINEERING EXCELLENCE—

PRESENTATION PLAN

BOROUGH OF SEASIDE PARK

**J.M.G.P., WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION**

NEW JERSEY

BOROUGH OF SEASIDE PARK OCEAN COUNTY

REV	DATE	BY	CHK	APP	REV
1	10/1/18	MM	MM	MM	1
2	10/1/18	MM	MM	MM	2
3	10/1/18	MM	MM	MM	3
4	10/1/18	MM	MM	MM	4

1 of 4

Restore the Shoreline



Existing Shoreline along Bayview Avenue



Proposed Stabilization Method



Example of Concrete Matting Constructed at South Seaside Park



Post Construction April 6, 2017



Post Storm March 9, 2018





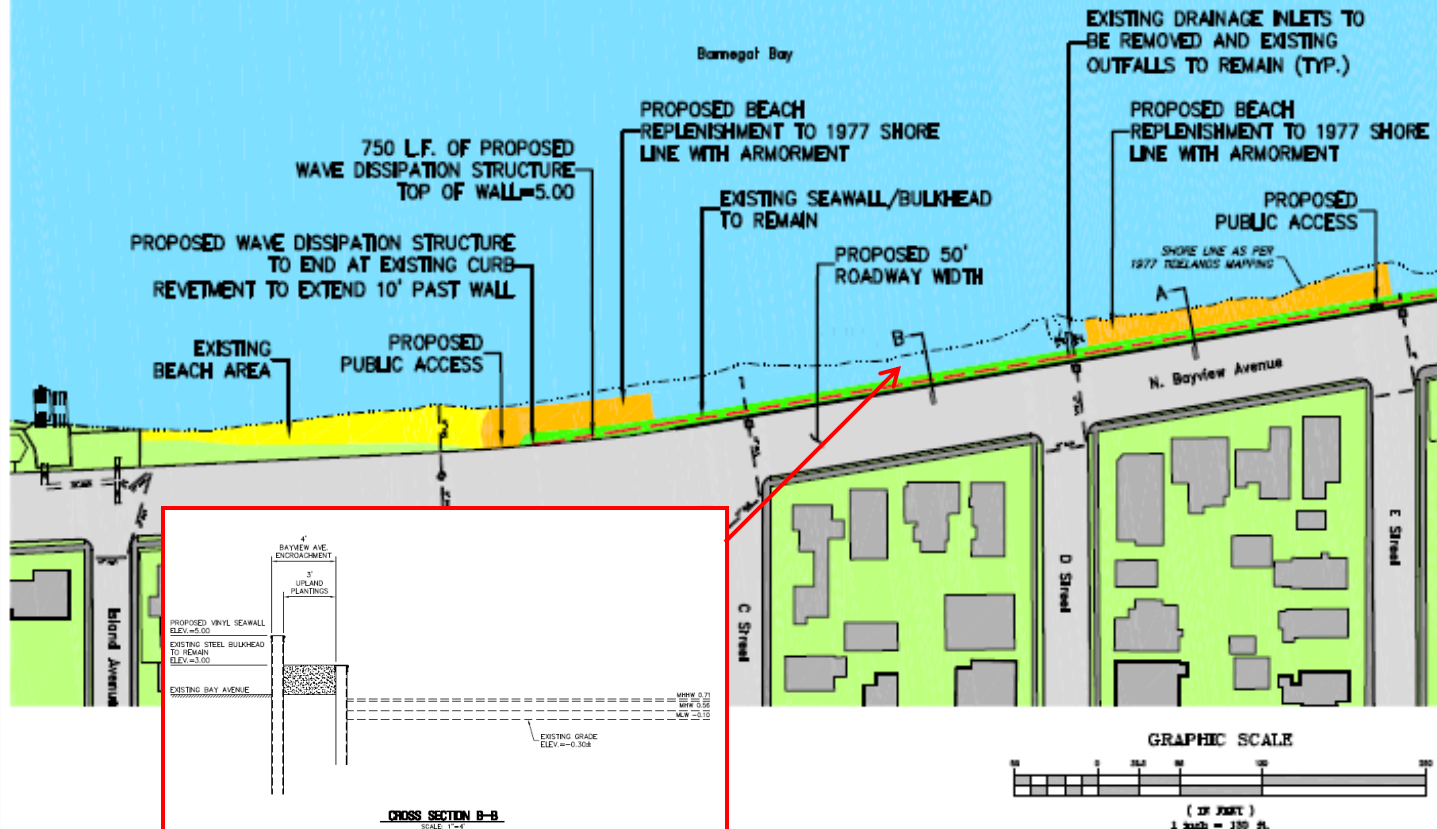
Proposed Conditions

Barnegat Bay



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—ENGINEERING SPECIALIST—



PRESENTATION PLAN

BOROUGH OF SEABOARD PARK
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION
OCEAN COUNTY
NEW JERSEY

DATE	BY	CHKD	DATE	BY	CHKD
08/14/18	AV	PH	08/14/18	AV	PH
2 of 4					

Goal of the Project

- ❖ Protect against wave action, by constructing an elevated seawall landward of the existing County bulkhead.
- ❖ Replenish the beach area and create a sustainable vegetated shoreline.
- ❖ Maintain public access to bay by proposing steps at E Street and G Street

Funding Sources

- ❑ The Borough has been awarded Phase 1 of a Hazard Mitigation Grant in the amount of \$95,000 to obtain the necessary permits. Upon obtaining the permits, Phase 2 of the Hazard Mitigation Grant will be issued in the amount of \$1.3 M
- ❑ A grant with the Nature Conservancy is being applied for by the Borough to assist with the vegetation restoration component of the project.
- ❑ New Jersey Environmental Infrastructure Trust for Living Shorelines along Barnegat Bay.
- ❑ The County contributions are anticipated for their fair share of the drainage improvements

Public Input

Question

&

Answer