“A”

NOTICE OF PUBLIC HEARING

HEREFORD INLET TO CAPE MAY INLET - FEASIBILITY REPORT AND INTEGRATED ENVIRONMENTAL ASSESSMENT

TAKE NOTICE that the New Jersey Department of Environmental Protection, Bureau of Coastal Engineering will hold a Public Hearing on the following feasibility study pursuant to P.L. 2007, CHAPTER 278 §1 - C.13:19-16.3.

APPLICANTS: U.S. Army Corp of Engineers, Philadelphia District and NJDEP - Bureau of Coastal Engineering

U.S. ARMY CORPS OF ENGINEERS PUBLIC NOTICE NO.: CENAP-PL-E-13-02

Bureau of Coastal Engineering Project No.: 6040

PROJECT NAME: Hereford Inlet to Cape May Inlet - Draft Feasibility Report and Integrated Environmental Assessment

PROJECT DESCRIPTION: The recommended plan in the feasibility report is the restoration of a berm and dune utilizing sand hydraulically back-passed from the beaches of Wildwood, Wildwood Crest and Lower Township. This plan was developed after evaluating structural and non-structural alternatives to protect property within the study area. The beaches in these areas have historically accreted large quantities of sand, and sand can be redistributed from the beach in Wildwood, Wildwood Crest and Lower Township to provide beach nourishment material to reduce storm damage to the entire island in the form of a storm protective berm and dune.

LOCATION: Oceanfront beaches of North Wildwood, Wildwood, Wildwood Crest and Lower Township

MUNICIPALITY: North Wildwood, Wildwood, Wildwood Crest and Lower Township

COUNTY: Cape May

The Bureau of Coastal Engineering invites the public to attend the Public Hearing and present written or oral comments on the feasibility report, the environmental assessment and the recommended plan. A copy of this report has been provided to each municipality and can also be located at: http://www.nap.usace.army.mil/Missions/CivilWorks/PublicNoticesReports.aspx

HEARING DATE: February 21, 2014

HEARING TIME: 2:00 PM

HEARING LOCATION: North Wildwood City Hall – Public Meeting Room

901 Atlantic Ave.

North Wildwood, NJ, 08260

The Bureau of Coastal Engineering invites the public to submit written comments on the above-referenced feasibility study within fifteen (15) days of the Public Hearing to:

Christopher Constantino, Project Manager/Environmental Specialist 3

NJDEP - Bureau of Coastal Engineering

1510 Hooper Avenue, Suite 140

Toms River, New Jersey 08753

“B”

Ronald Simone

From: Constantino, Christopher <Christopher.Constantino@dep.state.nj.us>
Sent: Thursday, February 27, 2014 12:45 PM
To: 'Brian.p.bogle@usace.army.mil'; 'steven.hafner@stockton.edu'; 'hwozunk@northwildwood.com'; 'prosenello@northwildwood.com'; 'Robert.mainberger@hatchmott.com'; McVeigh, Megan; 'jpino@wildwoodsnj.com'; 'mbittner@wildwoodnj.org'; 'rtroiano@wildwoodnj.org'; 'marcdeblasio@rve.com'; 'cfox@wildwoodnj.org'; 'mayor@wildwoodnj.org'; 'jbond@wildwoodcrest.org'; 'peter.r.blum@usace.army.mil'; 'joel.v.dohm@usace.army.mil'; Dixon, William; 'planning@townshipoflower.org'; 'dcabrera@wildwoodcrest.org'; 'kyecco@northwildwood.com'; 'tombyrne@jbyrneagency.com'; "jim verna' (jverna@vannoteharvey.com)'; 'Farrell, Stew'; 'thomas.thornton@hatchmott.com'; 'salzampirri@comcast.net'; 'rpetrellajr@vannoteharvey.com'; 'jsiciliano@wildwoodsnj.com'; smaxwell@wildwoodnj.org
Cc: 'Mike Voll (mvoll@townshipoflower.org)'; 'Mike Beck (mbeck@townshipoflower.org)'; 'Ron Gelzunas (rongelzunas@comcast.net)'; 'George Curvan (gcurvan@townshipoflower.org)'; 'Jay Dilworth (jaydees@comcast.net)'; 'Brandreth, Mary'; 'Gebert, Jeffrey A NAP (Jeffrey.A.Gebert@usace.army.mil)'; 'jgould@wildwoodcrest.org'; 'cgroon@wildwoodcrest.org'; 'tsmyth@northwildwood.com'; Ron Simone (rsimone@northwildwood.com); Lisa Schubert (lschubert@townshipoflower.org)
Subject: RE: Hereford Inlet to Cape May Inlet Public Hearing
Attachments: Herefrd2CpMayPubHrngNOTICE.pdf

All,

I'd kindly appreciate that any comments/inquires for this project be directed to this location (as indicated in the notice which I forwarded to you all and attached here again):

Christopher Constantino, Project Manager/Environmental Specialist 3
NJDEP - Bureau of Coastal Engineering
1510 Hooper Avenue, Suite 140
Toms River, New Jersey 08753

In addition, they can email me at christopher.constantino@dep.state.nj.us .

And if they need to call, 732-255-0767 ONLY and NOT to my cell phone; this is my personal cell phone and I have no problem providing it to project partners and to the key stakeholders but not the public and private property owners.

I have NO problem with discussing this project with anyone from the public or taking in anyone's concerns (obviously, I'll talk until I'm blue in the face); just not on my cell unless I initiate it.

Please share this notice with whomever you think will be interacting with the public on this topic.

Thanks for understanding,
Christopher Constantino
Environmental Specialist 3
NJDEP, Bureau of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, NJ 08753

732-255-0767
732-255-0755 - direct
732-232-0243 - CELL

From: Constantino, Christopher
Sent: Monday, February 24, 2014 3:14 PM
To: 'Brian.p.bogle@usace.army.mil'; 'steven.hafner@stockton.edu'; 'hwozunk@northwildwood.com'; 'prosenello@northwildwood.com'; 'Robert.mainberger@hatchmott.com'; McVeigh, Megan; 'jpino@wildwoodsnj.com'; 'mbittner@wildwoodnj.org'; 'rtroiano@wildwoodnj.org'; 'marcdeblasio@rve.com'; 'cfox@wildwoodnj.org'; 'mayor@wildwoodnj.org'; 'jbond@wildwoodcrest.org'; 'peter.r.blum@usace.army.mil'; 'joel.v.dohm@usace.army.mil'; Dixon, William; 'planning@townshipoflower.org'; 'dcabrera@wildwoodcrest.org'; 'kyecco@northwildwood.com'; 'tombyrne@jbyrneagency.com'; "jim verna' (jverna@vannoteharvey.com)'; 'Farrell, Stew'; 'thomas.thornton@hatchmott.com'; 'salzampirri@comcast.net'; 'rpetrellajr@vannoteharvey.com'; 'jsiciliano@wildwoodsnj.com'
Cc: 'Mike Voll (mvoll@townshipoflower.org)'; 'Mike Beck (mbeck@townshipoflower.org)'; 'Ron Gelzunas (rongelzunas@comcast.net)'; 'George Curvan (gcurvan@townshipoflower.org)'; 'Jay Dilworth (jaydees@comcast.net)'; 'Brandreth, Mary'; 'Gebert, Jeffrey A NAP (Jeffrey.A.Gebert@usace.army.mil)'; 'jgould@wildwoodcrest.org'; 'cgroon@wildwoodcrest.org'; MeHome
Subject: RE: Hereford Inlet to Cape May Inlet Public Hearing

For your records and if you'd like to publish...here is a copy of the PowerPoint from the public hearing last Friday.

Thanks to those who attended and commented.

Christopher Constantino
Environmental Specialist 3
NJDEP, Bureau of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, NJ 08753
732-255-0767
732-255-0755 - direct
732-232-0243 - CELL

From: Constantino, Christopher
Sent: Tuesday, February 11, 2014 6:04 PM
To: 'Brian.p.bogle@usace.army.mil'; 'steven.hafner@stockton.edu'; 'hwozunk@northwildwood.com'; 'prosenello@northwildwood.com'; 'Robert.mainberger@hatchmott.com'; McVeigh, Megan; 'jsicilano@wildwoodsnj.com'; 'jpino@wildwoodsnj.com'; 'mbittner@wildwoodnj.org'; 'rtroiano@wildwoodnj.org'; 'marcdeblasio@rve.com'; 'cfox@wildwoodnj.org'; 'mayor@wildwoodnj.org'; 'jbond@wildwoodcrest.org'; 'peter.r.blum@usace.army.mil'; 'joel.v.dohm@usace.army.mil'; Dixon, William; 'planning@townshipoflower.org'; 'dcabrera@wildwoodcrest.org'; 'kyecco@northwildwood.com'; 'tombyrne@jbyrneagency.com'; 'rpetrellajr@vannoteharvy.com'; "jim verna' (jverna@vannoteharvey.com)'; 'Farrell, Stew'; 'thomas.thornton@hatchmott.com'; salzampirri@comcast.net; rpetrellajr@vannoteharvey.com; jsiciliano@wildwoodsnj.com
Cc: Mike Voll (mvoll@townshipoflower.org); Mike Beck (mbeck@townshipoflower.org); Ron Gelzunas (rongelzunas@comcast.net); George Curvan (gcurvan@townshipoflower.org); Jay Dilworth (jaydees@comcast.net); Brandreth, Mary; Gebert, Jeffrey A NAP (Jeffrey.A.Gebert@usace.army.mil); Constantino, Christopher
Subject: Hereford Inlet to Cape May Inlet Public Hearing
Importance: High

All,

On Friday, 02/21/2014 at 2pm at North Wildwood City Hall in the Public Meeting Room, the NJDEP, Bureau of Coastal Engineering will be holding a public hearing to receive comment on the release of the draft feasibility report - pursuant to P.L. 2007, CHAPTER 278 §1 - C.13:19-16.3. The Bureau of Coastal Engineering invites the public to attend the Public Hearing and present written or oral comments on the feasibility report, the environmental assessment and the recommended plan. A copy of this report has been provided to each municipality and can also be located at: http://www.nap.usace.army.mil/Missions/CivilWorks/PublicNoticesReports.aspx Also, for those that can't attend, the Bureau invites the public to submit written comments on the above-referenced feasibility study within fifteen (15) days of the Public Hearing.

The attached information will be published in the Cape May County Herald tomorrow (Wednesday, 02/12/2014) and in issue #4 of the DEP Bulletin on 02/19/2014. As a result of the public hearing, the Bureau requested an extension to the Corps public comment period until Monday, 03/10/2014.

We appreciate everyone's input through this process and we are working towards meeting with each of the individual municipalities to discuss questions, comments, concerns and support.

We ask that the municipalities direct their questions via email to Brian.p.bogle@usace.army.mil, peter.r.blum@usace.army.mil, Mary.E.Brandreth@usace.army.mil and myself. In addition, feel free to reach out to me via phone as well.

Thanks in advance,
Christopher Constantino
Environmental Specialist 3
NJDEP, Bureau of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, NJ 08753
732-255-0767
732-255-0755 - direct
732-232-0243 - CELL

From: Constantino, Christopher
Sent: Friday, January 31, 2014 6:01 PM
To: 'Brian.p.bogle@usace.army.mil'; 'steven.hafner@stockton.edu'; 'hwozunk@northwildwood.com'; 'prosenello@northwildwood.com'; 'Robert.mainberger@hatchmott.com'; McVeigh, Megan; 'jsicilano@wildwoodsnj.com'; 'jpino@wildwoodsnj.com'; 'mbittner@wildwoodnj.org'; 'rtroiano@wildwoodnj.org'; 'marcdeblasio@rve.com'; 'cfox@wildwoodnj.org'; 'mayor@wildwoodnj.org'; 'jbond@wildwoodcrest.org'; 'peter.r.blum@usace.army.mil'; 'joel.v.dohm@usace.army.mil'; Dixon, William; 'planning@townshipoflower.org'; 'dcabrera@wildwoodcrest.org'; 'salzampiirri@comcast.net'; 'kyecco@northwildwood.com'; 'tombyrne@jbyrneagency.com'; 'rpetrellajr@vannoteharvy.com'; 'jim verna' (jverna@vannoteharvey.com); Farrell, Stew; thomas.thornton@hatchmott.com
Subject: Hereford Inlet to Cape May Inlet sign in

All,

On behalf of the Bureau of Coastal Engineering and U.S. Army Corps of Engineers, I just wanted to thank everyone for attending the meeting last Friday and bringing of the interested parties to the table. We look forward to working closely with everyone throughout this process and for the duration of the project.

Feel free to reach out to myself or Brian Bogle (Brian.p.bogle@usace.army.mil) with any questions or comments.

Christopher Constantino

Environmental Specialist 3
NJDEP, Bureau of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, NJ 08753
732-255-0767
732-255-0755 - direct
732-232-0243 - CELL

“C”

DRAFT LETTER TO NJ DEP COMMISSIONER MARTIN

April 2, 2014

Dear Commissioner:

Please be advised that we were recently informed that our sister communities to the south, Wildwood and Wildwood Crest, failed to endorse the draft Feasibility Report for Hereford Inlet to Cape May Inlet, NJ, as prepared by the US Army Corps of Engineers, Philadelphia District, 2013, and assisted by the NJ Department of Environmental Protection.

While it is uncontroverted that the multiple island communities that make-up the "Wildwoods" have unique issues and problems affecting their beachfront, it is also uncontroverted that the northern section of each and every barrier island along the New Jersey coast bears the brunt of every major storm that strikes our state. It is for this primary reason that we beseech you to continue forward with the plan. An expansive dune system, as contemplated in the report, will provide immeasurable support to our ongoing efforts to protect the beachfront in North Wildwood.

There are no beach fees in North Wildwood and, on this basis, no ability to provide a funding offset to the enormous costs for the ongoing beach maintenance program except on the backs of the taxpayers of North Wildwood.

On behalf of the administration of the City of North Wildwood, our residents, visitors, and business community, I implore you to intercede in this matter and take the necessary steps to move the feasibility study forward. In one way or another our entire island is dependent upon a fully developed (and implemented) beach protection, maintenance and enhancement plan. Our growth, environmentally, protectively, and economically is dependent upon it!

I remain available to further discuss this matter with you or members of staff at your earliest opportunity.

Very truly yours,

Patrick T. Rosenello, Mayor
City of North Wildwood

“D”

Ronald Simone

From: Christopher Constantino <Christopher.Constantino@dep.nj.gov>
Sent: Monday, March 16, 2015 12:34 PM
To: Ron Simone (rsimone@northwildwood.com)
Cc: Christopher Constantino
Subject: FW: 03/2015 update - Hereford Inlet to Cape May Inlet hurricane and storm damage reduction project

Ron,

FYI...see below..

Hope you are well...

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Bureau of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note newer email: Christopher.Constantino@dep.nj.gov

From: Christopher Constantino
Sent: Monday, March 16, 2015 12:33 PM
To: Bill Galestok (planning@townshipoflower.org); Mike Beck (mbeck@townshipoflower.org); Jim Ridgway (jridgway@townshipoflower.org); 'mayor@wildwoodnj.org'; 'cfox@wildwoodnj.org'; 'Council President' (prosenello@northwildwood.com); Kevin Yecco (kyecco@northwildwood.com); 'cgroon@wildwoodcrest.org'; 'dcabrera@wildwoodcrest.org'; 'wmorey@co.cape-may.nj.us'
Cc: William Dixon; Bogle, Brian P NAP (Brian.P.Bogle@usace.army.mil)
Subject: 03/2015 update - Hereford Inlet to Cape May Inlet hurricane and storm damage reduction project

All,

I just wanted to give you a quick update on the status of the Hereford Inlet to Cape May Inlet project – I apologize for the delay.

Recently, a project milestone was reached, via signing of the Chiefs Report – essentially, this authorizes the project to move forward towards PED (Pre-Construction Engineering & Design), plan and spec development, and preparation of a PPA (Project Partnership Agreement between the State and the Corps). The project schedule currently indicates initial construction potentially beginning late 2016/early 2017 – very similar to the schedule discussions we had in December 2014 and February 2015.

If you go to this site, the final feasibility report and its associated appendices, the signed chiefs report and our powerpoint from the public hearing are linked
there: http://www.nap.usace.army.mil/Missions/Factsheets/FactSheetArticleView/tabid/4694/Article/490818/hereford-inlet-to-cape-may-inlet-nj.aspx

The Corps is currently working on interim logistics and details until PED begins – we will be updating you all in advance of the next steps forward.

Feel free to contact me with any questions...

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Bureau of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note newer email: Christopher.Constantino@dep.nj.gov

“E”

Hereford Inlet to Cape May Inlet, NJ

SHARE Email Print

UPDATED: February 2016

CONGRESSIONAL DISTRICTS: NJ-2

APPROPRIATION / PHASE: General Investigations / Feasibility

BUSINESS PROGRAM: Flood & Coastal Storm Damage Reduction

AUTHORITY: The Hereford Inlet to Cape May General Investigation was undertaken by authority of The New Jersey Shore Protection Study, by resolutions adopted within the Committee on Public Works and Transportation of the U.S. House of Representatives and the Committee on Environment and Public Works of the U.S. Senate in December 1987.

LOCATION The study area includes Five Mile Island, located on the Atlantic Coast of New Jersey between Hereford and Cape May Inlets in Cape May County.

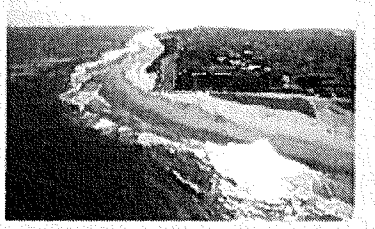
DESCRIPTION: The project area consists of the municipalities of North Wildwood, Wildwood, Wildwood Crest and Lower Township. These municipalities are vulnerable to storm damage all year round from a combination of hurricanes and nor'easters. The project area will be restricted to the beachfront, and tapered at the southern and northern ends at Hereford Inlet and the USFW/Coast Guard properties. The Non-Federal sponsor is the New Jersey Department of Environmental Protection (NJDEP).

The City of North Wildwood is experiencing significant erosion of its berm and dune. What was the largest beach in the state now suffers from tidal flooding and wave run-up over a formerly protective beach. The municipality of North Wildwood has lost approximately 1,000 feet of beach during the past 5-10 years.

In contrast to North Wildwood, sand accretion in Wildwood and Wildwood Crest is causing extensive maintenance problems and health hazards with their storm water management system. The excess sand clogs storm-water outfalls, creates pools of stagnant water, produces unhealthy beach conditions and causes associated interior flooding . During combined periods of heavy rain and high waves the City can not access the outfalls for excavation and rainwater becomes trapped within the pipes. The subsequent high volume discharge of impounded storm water can also cause spikes in poor water quality.

The entire island experiences storm damages and the modeling preformed during the feasibility analysis identified a plan that will reduce storm damages from coastal events across all of the municipalities involved.

Photos 1 of 1



The Hereford Inlet to Cape May Inlet Study is evaluating erosion and storm damage potential for the municipalities on Five Mile Island. Erosion has adversely affected the beach and dunes in North Wildwood increasing the risk of storm damage, while excessive accretion of sand along the central and southern portions of the island has caused health, environmental, and storm-water drainage problems in Wildwood Crest. (Photo by USACE)

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Related Content

Related Link NJDEP Bureau of Coastal Engineering

Related Link Feb 2014 Public Meeting Presentation

Related Link Signed Chief's Report

Related Link Final Feasibility Report Volume 1

Related Link Final Feasibility Report Volume 2

Related Link Final Feasibility Report Volume 3

Related Video Historic Shoreline Sequence

Planning for resiliency, robustness and redundancy as a result of the direction provided from higher authority as a result of the impacts from Hurricane Sandy will require further analysis in the Planning Engineering and Design phase. Management measures that were screened out that can be re-evaluated include; constructing bulkheads around the piers, and the prevention of backbay flooding through green infrastructure and bulkhead reconstruction. Funds were received from the Disaster Relief Appropriations Act of 2013, Public Law 113-2, enacted to assist in the recovery in the aftermath of Hurricane Sandy.

STATUS: The project successfully completed a Civil Works Review Board on 21 August 2014 and obtained a signed Chief's Report on 23 January 2015. Following Congressional notification, the district will begin the Planning Engineering and Design (PED) phase, sign a Project Partnership Agreement (PPA) and to begin the initial construction in FY 2018.

Project Goals: The purpose of this project is to evaluate erosion and storm damage potential for the municipalities on Five Mile Island. It presently includes a constructed berm and dune extending from Hereford Inlet in North Wildwood to existing dunes in Wildwood and Wildwood Crest using backpassing technology. The creation of a dune and berm from Hereford to Cape May will reduce risk from coastal storms.

Backpassing Technology: Provides high quality sand as an alternative to offshore borrow areas, reduces beach maintenance, has lower emissions than traditional dredging and will not impact cultural or environmental resources within Hereford Inlet.

SPONSOR: New Jersey Department of Environmental Protection

Date of Amended Feasibility Cost Share Agreement: October 28, 2013

Target Completion Date: May 2019

Total Estimated Cost: $22 M (initial construction)

Federal Funds Appropriated: $2,033,805 regular GI funds, plus $533,600 in Sandy Funds.

Non-Federal Share: $2,033,805

Civil Works Review Board: 21 August 2014

PROJECT MANAGER: Brian Bogle

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“F”

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF THE COMMISSIONER
Mail Code 401-07
P.O. BOX 402
Trenton, NJ 08625-0402
TEL (609) 292-2885
FAX (609) 292-7695

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt Governor

BOB MARTIN
Commissioner

November 1, 2016

The Honorable Patrick Rosenello, Mayor
901 Atlantic Avenue
North Wildwood, NJ 08260

Re: Flood Hazard Risk Reduction and Resiliency Grant Program Application

Dear Mayor Rosenello:

I am pleased to inform you that the Department of Environmental Protection has conditionally approved your request for a grant under the Flood Hazard Risk Reduction and Resiliency Grant Program of up to $9,933,638 for the Hereford Inlet Stormwater Improvement project.

This grant is funded through a United States Housing and Urban Development (HUD) Superstorm Sandy Community Development Block Grant for Disaster Recovery (CDBG-DR). To ensure compliance with CDBG-DR requirements and steady progress with constructing this needed infrastructure, my staff from the Department's Division of Dam Safety and Floodplain Management will be contacting you shortly to set up the necessary training and assistance needed to finalize the grant award.

I take this opportunity to congratulate you on the success of your grant application and on the impact that your project will have on alleviating the risk to life and property for area residents.

Sincerely,

Bob Martin
Commissioner

“G”

Ronald Simone

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Wednesday, November 30, 2016 3:38 PM
To: prosenello@northwildwood.com; Kevin Yecco (kyecco@northwildwood.com)
Cc: Ronald Simone
Subject: RE: Hereford Inlet to Cape May Inlet project
Attachments: 20161130130737704.pdf

Mayor Rosenello/Mr. Yecco,

I just wanted to let you know that two sets of the 30% Pre-Construction Engineering and Design Phase (PED) plans for the proposed Hereford Inlet to Cape May Inlet, Wildwoods Beachfill – Initial Construction project were mailed to you today; these plans should be arriving on December 1st.

We ask that the City review these plans and provide written comments and questions to our office by 12/16/2016. Please keep in mind that these plans are preliminary and we encourage the City to raise their questions and concerns in this plan review period.

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note newer email: Christopher.Constantino@dep.nj.gov
Please note the newer Division name.

From: Constantino, Christopher
Sent: Friday, September 30, 2016 5:31 PM
To: prosenello@northwildwood.com
Subject: Hereford Inlet to Cape May Inlet project

Mayor,

I would like to catch up with you on Monday to discuss the status of the project plans.

Is there a time when you are free and we can talk? I have a call right now scheduled from 10 to 10:30 and I'm trying to coordinate a few other meetings and calls that day but I would like to touch base with you if possible.

Have a good weekend

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)

“H”

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF THE COMMISSIONER
Mail Code 401-07
P.O. Box 402
Trenton, NJ 08625-0402
TEL (609) 292-2885
FAX (609) 292-7695

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

January 29, 2016

The Honorable Patrick Rosenello, Mayor
City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260

Dear Mayor Rosenello,

I am writing to advise you that I am approving your municipality's request for assistance with sand costs in the wake of the January 22-24 winter storm.

While we typically ask municipalities to cost share with the State to fund such interim protection measures, given the severity of this most recent storm and its impact on your community, the State is committing to fully fund your estimated construction cost. The State will provide up to the $133,450 for your requested reimbursement for emergency beach repair and stabilization in North Wildwood. Final payment will be based upon the actual construction cost. DEP's Bureau of Coastal Engineering will contact you shortly to discuss the process for receiving reimbursement.

beach scraping

As you know, Governor Christie and I are committed to seeing through to completion all of the U.S. Army Corps of Engineers storm damage reduction projects. Until these critical projects are built, the State will continue to support your efforts to protect your town from severe weather events.

Sincerely,

Bob Martin
Commissioner

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“I”

STATE AID AGREEMENT

BETWEEN

THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

AND

CITY OF NORTH WILDWOOD

PROJECT NO. 4281-16

EMERGENCY SAND FOR DUNE CONSTRUCTION

NORTH WILDWOOD, CAPE MAY COUNTY, NEW JERSEY

THIS AGREEMENT made and executed this 16th day of August, Two Thousand and Sixteen **BY AND BETWEEN THE CITY OF NORTH WILDWOOD**, Cape May County, New Jersey, hereinafter called the "Municipality" and the **STATE OF NEW JERSEY, DEPARTMENT OF ENVIRONMENTAL PROTECTION**, hereinafter called the "Department", **OFFICE OF COASTAL ENGINEERING**, hereinafter called the "Office."

WHEREAS, The Municipality requested emergency Department assistance for emergency beach repair and stabilization measures prior to the predicted coastal storm on January 22, 2016 through January 24, 2016; and

WHEREAS, the Office has the full authority to perform all of its shore protection responsibilities for the project under New Jersey State Law PL 92, c. 148; PL 95, c. 164; PL 99, c. 138; PL 01, c. 130; and N.J.S.A. 12:6A-1, et seq.; and

WHEREAS, the Municipality has the full authority to perform all of its responsibilities for the project under N.J.S.A. §§ 40:56-1, et seq., 40:69A-1, et seq., and 40A:12-1, et seq., and the Mayor of the Municipality is duly authorized to enter this Agreement; and

WHEREAS, the Office will approve a State Aid grant in the Fiscal Year 2016 for the January 22 - 24, 2016 event on a 100% State and 0% Municipality cost-share basis, as per the Cost-Share Analysis attached hereto as Appendix A and as per the administrative correspondence attached hereto as Appendix B, in the amount not to exceed $133,450.00 for the emergency beach repair and stabilization measures; and

WHEREAS, the State Aid funding shall be paid to the Municipality for the emergency beach repair and stabilization measures. No funds shall be paid for administrative costs, permits, engineering, legal fees, inspections, or project management fees; and

WHEREAS, subsequent to the State Aid grant, the Federal Emergency Management Agency (FEMA) declared the storm event a federal disaster within Cape May County, NJ, to which the Municipality is located; and

WHEREAS, due to the FEMA disaster declaration, all or a portion of the emergency beach repair and stabilization measures may be eligible for federal disaster relief reimbursement; and

WHEREAS, should the Municipality be granted a FEMA Project Worksheet (PW) for some or all of the activities described herein, the Office shall reduce the amount of the initial grant for the January 22 - 24, 2016 emergency beach repair and stabilization measures by the amount covered by federal reimbursement; and

WHEREAS, the remaining balance from the Office's initial $133,450.00 grant shall be made available for the Municipality's use toward emergency beach repair and stabilization measures in event of future storms; and

WHEREAS, the expenditure of public funds is conditioned upon compliance with the Department's Coastal Zone Management rules and all other applicable laws, rules and regulations;

NOW THEREFORE, both parties hereto do mutually agree as follows:

(1) The Municipality is responsible for all real estate obligations for any work conducted on property not owned by the Municipality.

(2) In satisfying its obligations in this Agreement, the Municipality is responsible for any required permits and shall comply with all the Department's Coastal Zone Management rules (N.J.A.C. 7:7 et seq.) including but not limited to: Dunes (7:7-9.16); Overwash Areas (7:7-9.17); Coastal High Hazard Areas (7:7-9.18); Erosion Hazard Areas (7:7-9.19); Beaches (7:7-9.22); Endangered or Threatened Wildlife or Plant Species Habitat (7:7-9.36); Coastal Engineering (7:7-15.11); and Public Access (7:7-16.9), as amended.

(3) After construction, bulldozing, excavation or mechanical alteration of any dune is strictly prohibited, except as permitted by the Department's Standards for Beach and Dune Activities (N.J.A.C. 7:7-10).

(4) The Municipality as a public entity recognizes its continuing obligation to ensure compliance with the Public Trust Doctrine in accordance with the laws of the State of New Jersey.

(5) Upon execution of this State Aid Agreement, the Office will reimburse the Municipality's documented expenses within 30 day after the Office's receipt, review, and approval of the invoices provided by the municipal business administrator.

(6) The Office will pay 100% of the funding, up to $133,450.00, for the emergency beach repair and stabilization measures related to the January 22 - 24, 2016 event and the Municipality will pay 0%. The Office's share is to be paid to the Municipality, as per the administrative correspondence attached hereto as Appendix B and the Cost-Share Analysis attached hereto as Appendix A, in accordance with (7) and (8) below.

(7) The Office reserves all legal recourse including but not limited to seeking injunctive relief to force compliance or commencing an action in a court of appropriate jurisdiction to obtain an accounting and to recover the State's share of any funds used to satisfy the Municipality's obligations under this Agreement, plus interest, legal costs and other expenses. If the Municipality breaches any obligation under this Agreement, the Office reserves the right to cease its performance under this Agreement. Prior to instituting any action under this

provision, the Office shall serve the Municipality with a written notice of the violation of the Agreement and the Municipality shall have 30 days to cure any breach. In addition, if the Municipality fails to perform in accordance with this Agreement, its eligibility for future shore protection funds may be impacted.

(8) If the Office fails to receive annual appropriations in amounts sufficient to meet the Office's project costs for the then current or upcoming fiscal year, the Office shall so notify the Municipality in writing, and 60 days thereafter either party may elect without penalty to terminate this Agreement or to suspend future performance under this Agreement. Such suspension shall remain in effect until such time as the Office received sufficient appropriations or until either party elects to terminate this Agreement. Any such termination shall not relieve the parties of liability for any obligation previously incurred.

(9) The Municipality shall notify the Office of its eligibility status for FEMA assistance in writing within two weeks of the agency determination.

(10) The Municipality is permitted to be reimbursed for their cost-share of the FEMA assistance with the Office's funds.

(11) If FEMA determines all efforts to be ineligible, then Office shall reimburse for the documented expenses up to the $133,450.00 maximum allowed under the State Aid grant.

(12) The Office shall make the balance of the grant available for future storm protection measures should the Municipality receive a FEMA PW.

(13) All notices under this Agreement shall be sent in writing to:

<u>For the Office</u>:
William T. Dixon, Administrator
Office of Coastal Engineering
1510 Hooper Avenue, Suite 140
Toms River, New Jersey 08753

For the Municipality:
The Honorable Patrick Rosenello, Mayor
City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260

(14) The waiver of a breach of any of the terms or conditions of this Agreement by the Office shall not constitute a waiver of any subsequent breach. Any consent by the Office to a delay in the Municipality's performance of any obligation shall apply only to the particular transaction to which the consent to delay relates, and it shall not be applicable to any other obligation or transaction under this Agreement.

(15) In the event that any one or more of the provisions of this Agreement shall be determined to be void or unenforceable by a court of competent jurisdiction, or by law, such determination will not render this Agreement invalid or unenforceable and the remaining provisions hereof shall remain in full force and effect.

(16) Nothing contained herein shall be construed so as to create rights in any third party.

(17) This Agreement will take effect upon execution by all parties and will remain in effect, except as otherwise provided in the Agreement, and can be amended by agreement of the parties.

(18) This Agreement may be executed in counterparts.

(19) If any provision of this Declaration or the application thereof to any person or circumstances is found to be invalid, the remainder of the provisions of this Declaration and the application of such provision to persons or circumstances other than those as to which it is found to be invalid, shall not be affected thereby.

(20) This Agreement shall be interpreted in accordance with the laws of the State of New Jersey.

(21) Once the project is complete, the Municipality is responsible for all future maintenance costs associated with maintenance and repair of the project.

(22) All parties understand and agree that the intent of this project is to provide emergency coastal storm damage reduction for the protection of public and private property and infrastructure.

IN WITNESS WHEREOF, the Municipality and the Office have hereunto set their respective names on the day and year first above written.

CITY OF NORTH WILDWOOD

ATTESTED:

BY _____
Patrick Rosenello, Mayor
City of North Wildwood

_____
W. Scott Jett, Clerk
City of North Wildwood

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENGINEERING & CONSTRUCTION
OFFICE OF COASTAL ENGINEERING

ATTESTED:

BY _____
William T. Dixon
Administrator
Office of Coastal Engineering

APPROVED:

BY _____
Dave Rosenblatt
Assistant Commissioner
Engineering & Construction

The aforementioned Agreement has been reviewed and approved as to form.

Christopher S. Porrino
Attorney General of New Jersey

BY _____
David C. Apy
Assistant Attorney General

APPENDIX A

PROJECT NO. 4281-16 EMERGENCY SAND FOR DUNE CONSTRUCTION

NORTH WILDWOOD, CAPE MAY COUNTY, NEW JERSEY

COST SHARE ANALYSIS

January 22, 2016 through January 24, 2016

Mobilization	$ 7,500.00
Beachfill Construction (Imported Material)	$ 70,000.00
Sand Harvesting & Grading	$ 40,000.00
Concrete Stabilization	$ 4,950.00
OT Premium	$ 5,000.00
Beach Grass	$ 6,000.00
Sand Purchase and Delivery Total	**$ 133,450.00**
100% State Cost-Share Obligation	**$ 133,450.00***
0% Municipal Cost-Share Obligation	$ 0.00

*Maximum approved grant

APPENDIX B

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF THE COMMISSIONER
Mail Code 401-07
P.O. Box 402
Trenton, NJ 08625-0402
TEL (609) 292-2885
FAX (609) 292-7695

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

January 29, 2016

The Honorable Patrick Rosenello, Mayor
City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260

Dear Mayor Rosenello,

I am writing to advise you that I am approving your municipality's request for assistance with sand costs in the wake of the January 22-24 winter storm.

While we typically ask municipalities to cost share with the State to fund such interim protection measures, given the severity of this most recent storm and its impact on your community, the State is committing to fully fund your estimated construction cost. The State will provide up to the $133,450 for your requested reimbursement for emergency beach repair and stabilization in North Wildwood. Final payment will be based upon the actual construction cost. DEP's Bureau of Coastal Engineering will contact you shortly to discuss the process for receiving reimbursement.

As you know, Governor Christie and I are committed to seeing through to completion all of the U.S. Army Corps of Engineers storm damage reduction projects. Until these critical projects are built, the State will continue to support your efforts to protect your town from severe weather events.

Sincerely,

Bob Martin
Commissioner

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CITY OF NORTH WILDWOOD

Cape May County, New Jersey

RESOLUTION

AUTHORIZING EXECUTION OF A STATE AID AGREEMENT IN CONNECTION WITH EMERGENCY SAND FOR DUNE CONSTRUCTION FOLLOWING THE WINTER COASTAL STORM OF JANUARY 2016

WHEREAS, the City of North Wildwood requested emergency assistance from the New Jersey Department of Environmental Protection for beach repair and stabilization measures prior to the predicted coastal storm of January 22-24, 2016; and

WHEREAS, the Commissioner of the Department of Environmental Protection confirmed, via correspondence date January 29, 2016, that said request for assistance with emergency sand costs was approved; and

WHEREAS, said approval for a State Aid grant in the Fiscal Year 2016 for the January 22 – 24, 2016 coastal storm is for an amount not to exceed $133,450.00 for said emergency beach repair and stabilization measures, on a 100% State and 0% Municipality cost-share basis, pursuant to the terms and conditions of the State Aid Agreement attached hereto as Exhibit A; and

WHEREAS, the funding obligations of the State of New Jersey for the aforementioned emergency beach repair and stabilization measures are predicated upon execution, by the New Jersey Department of Environmental Protection and by the City of North Wildwood, of said State Aid Agreement that also sets forth the various responsibilities and obligations of the parties thereto as to said emergency measures.

NOW, THEREFORE, BE IT RESOLVED, by the Members of Council of the City of North Wildwood, in the County of Cape May and State of New Jersey as follows:

1) All of the statements of the preamble are incorporated herein by this reference thereto as though the same were set forth at length.

2) The Mayor and City Clerk be and they hereby are authorized to execute a State Aid Agreement, attached hereto as Exhibit A, for emergency beach repair and stabilization measures due to the effects of the winter coastal storm of January 22-24, 2016.

OFFERED BY: _____ SECONDED BY: _____

****

I, W. Scott Jett, City Clerk of the City of North Wildwood, in the County of Cape May, State of New Jersey, do hereby certify that the foregoing is a correct and true copy of a Resolution adopted by the Mayor and Council of the City of North Wildwood at a meeting duly held on the 16th day of August 2016.

Dated: August 16, 2016

Signed: _____
W. Scott Jett, City Clerk

APPROVED: _____
Patrick T. Rosenello, Mayor

	Aye	Naye	Abstain	Absent		Aye	Naye	Abstain	Absent
Tolomeo					Kochler				
Rullo					Bishop				
Kane					Zampirri				
Del Conte									

"J"

CITY OF NORTH WILDWOOD

901 Atlantic Avenue
North Wildwood, NJ 08260-5778
(609) 522-2030

Patrick T. Rosenello
Mayor

Kevin Yecco
City Administrator

July 21, 2017

David Rosenblatt
Assistant Commissioner
NJDEP
Engineering & Construction
501 E State Street
Trenton, NJ 08625-0419

RE: Request for Partnership – CAFRA IP

Dear David:

Please allow me to begin by saying that we are most appreciative of the mutually beneficial relationship that the City of North Wildwood and the NJDEP have shared for a number of years. With that being said, the City of North Wildwood is presently working on our CAFRA (IP) individual permit for two projects: (1) sand-back-pass from Wildwood to North Wildwood and (2) the beneficial use of beach creek, dredging sand material to add to North Wildwood beach. Given the success of past ventures where we partnered with the New Jersey Department of Environmental Protection Bureau of Coastal Engineering, such as our 2009 beach fill project, it is our greatest hope that we can reach another agreement whereby your office again partners with the City on the submission of our 2017 CAFRA (IP) individual permit.

In anticipation of the upcoming Army Corp. of Engineers Feasibility Project, these back-pass and beach creek dredging efforts assist North Wildwood in fortifying our beach to fend off catastrophic damage to our dune system, private properties, and city-wide infrastructure; in addition to the building of our front beach back to the 2009 engineered beach design specifications. All of which are contributing efforts to the plans presently in the developmental stages as contained in the Army Corp. Feasibility Report. Accordingly, we fully believe that these projects can be mutually beneficial to the City of North Wildwood, the NJDEP Bureau of Coastal Engineering, and the Army Corp. with its feasibility project's much anticipated start date in 2019.

Therefore, please accept this letter as the City of North Wildwood's formal request for partnership on our 2017 CAFRA (IP) individual permit. as we (the City) are planning to manage the project well beyond any funding that your office may be able or willing to offer, and we also respect your oversight as we further develop and improve upon the "back-passing" concept.

Thank you in advance for your kind consideration of this request.

Very sincerely,

Patrick T. Rosenello
Mayor

CC: William T. Dixon. Director
Chris Constantino. Environmental Specialist 3

“K”

CITY OF NORTH WILDWOOD

901 Atlantic Avenue
North Wildwood, NJ 08260-5778
(609) 522-2030

Patrick T. Rosenello
Mayor

Kevin Yecco
City Administrator

October 10, 2017

Bob Martin, Commissioner
New Jersey Department of Environmental Protection
401 E State St.
7th Floor, East Wing
P.O. Box 402
Trenton, NJ 08625-0402

RE: Seawall Extension Project

Dear Commissioner Martin:

Please allow me to begin by saying that the New Jersey Department of Environmental Protection has always been and continues to be a champion and supporter of North Wildwood in our efforts to protect our citizens, properties, visitors and critical infrastructures by way of hazard mitigation, and for that we are forever grateful. After Winter Storm Jonas, the City of North Wildwood, with financial assistance graciously provided by NJDEP, was able to provide a temporary resolution to mitigate imminent damages between 3rd and 5th Avenues, and the City of North Wildwood has continued to supplement structural support at this location by way of 'sand back-passing'/ material deposit; all of which has been of significant financial and operational cost to the City.

As a result of numerous coastal storms this hurricane season including the likes of Irma, Jose and Maria, erosion between 3rd and 5th Avenues along JFK Blvd has produced devastating consequences to the extent that we now face serious and imminent threats to our infrastructure and adjacent beachfront properties. Therefore, in order to protect our dune system, infrastructure, assets and the welfare/safety of our property owners, residents and heavy influx of visitors, the City of North Wildwood is now in pursuit of a more permanent hazard mitigation project at this location, which includes the relocation of the 3rd Avenue outfall line to 5th Avenue, and extending the seawall from 3rd to 5th Avenue. Once approved, it will be our intent to immediately engage the City Engineer for the development and preparation of all necessary plans in regard to this most critical and timely project.

We firmly believe that the creation of a 'seawall extension project' would be mutually beneficial to the City of North Wildwood, in addition to the New Jersey Department of Environmental Protection and the Army Corp of Engineers for the reasons/purposes as follows:

1. The existing seawall was designed and constructed by the USACOE, and sanctioned by the NJDEP;
2. The 'seawall extension project' will merely continue the existing seawall, and will protect critical infrastructure and beachfront properties adjacent thereto, in anticipation of the Army Corp of Engineers Island-wide Dune Project;
3. The 'seawall extension project' will serve as a long-term investment because it will offer permanent protection from the aforesaid storm events which are further exacerbated by sea level rise now and in the future.
4. The 'seawall extension project' will save the municipality and NJDEP from having to fund temporary emergency repairs at this location, which have become an annual/bi-annual occurrences and are extremely costly.

Therefore, please accept this letter as the City of North Wildwood's formal request for a partnership on the planning and funding of a 'Seawall Extension Project' between 3rd and 5th Avenues. Understandably, we would also be seeking a partnership with the Army Corp of Engineers, as any disturbance on the seawall would have to be sanctioned and authorized with their assistance and support for further consideration of this "permanent" solution. Thus, I have also copied the planning representative from the Army Corp of Engineers in seeking their support of the same. As always, if you would like to discuss these matters further, I am available by phone at (609) 425-0146 or by email at prosenello@northwildwood.com at your convenience. Thank you in advance for your consideration of this request, and I look forward to your favorable reply.

Very truly yours,

Patrick T. Rosenello
Mayor

CC:
Jeff Gebert, Chief of Coastal Planning
Army Corp. of Engineers
Jeffrey.A.Gebert@usace.army.mil

“L”

L

From: _Verna, Jim <jverna@vannoteharvey.com>
Sent: Tuesday, November 21, 2017 12:49 PM
To: Constantino, Christopher
Subject: RE: Cost estimates and plans for north wildwood (43611-400-21)
Attachments: 43611-Emergency Bulkhead Replacement Bid Tab (11-15-17).pdf; Bulkhead 4th to 5th Plan SIGNED 11-09-17.pdf

Chris,
I was awaiting some soundings data from Dr. Farrell in order to accurately calculate the volume of excavation, but we can't wait any longer. This morning the City awarded an emergency contract to construct a bulkhead. Materials are being delivered this week and work on the new bulkhead will commence by Monday 11/27. I will finalize the plans and estimate and send to you early next week. Essentially the entire dune system is gone between 2nd and 5th Avenues. Even the bayberry bushes and other vegetation dating back to the 80's is essentially gone in the aforementioned area.

The bulkhead plans are attached. RA Walters & Son, Inc. submitted the low quote for the emergency bulkhead work. In addition, the storm sewer trunk line relocation between 3rd and 5th Avenues is completed.

Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
(609) 465-2600, extension 125 (Voice)
(609) 465-8028 (Fax)
jverna@vannoteharvey.com

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From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Tuesday, November 21, 2017 10:34 AM
To: _Verna, Jim <jverna@vannoteharvey.com>
Subject: Cost estimates and plans for north wildwood

Jim,

What ever happened with those cost estimates and plans for the seawall between 2nd and 5th??

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

BID TABULATION - Date Bids Received: Wednesday, November 15, 2017 at 5:00pm

Project: EMERGENCY BULKHEAD REPLACEMENT ON JFK BEACH DRIVE BETWEEN 4TH AND 5TH AVENUES

City of North Wildwood, Cape May County, NJ

Project #: 43611-400-21

				ENGINEER'S ESTIMATE		RA WALTERS & SON, INC. 18 Hoffman Drive CMCH, NJ 08210		ARTHUR R. HENRY, INC. 3031 Ocean Heights Avenue Egg Harbor Township, NJ 08234		WALTERS MARINE CONSTRUCTION, INC. 414 Woodbine-Ocean View Road Ocean View, NJ 08230	
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
BASE BID											
1	Mobilization	1	LS	$15,000.00	$15,000.00	$15,000.00	$15,000.00	$28,950.00	$28,950.00	$15,000.00	$15,000.00
2	Bonds	1	LS	$6,000.00	$6,000.00	$5,000.00	$5,000.00	$3,400.00	$3,400.00	$5,000.00	$5,000.00
3	Insurance	1	LS	$6,000.00	$6,000.00	$2,000.00	$2,000.00	$12,000.00	$12,000.00	$1,000.00	$1,000.00
4	Color Video	1	LS	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$800.00	$800.00	$1,000.00	$1,000.00
5	Vinyl Bulkhead Complete (267 lf+/-)	1	LS	$160,200.00	$160,200.00	$135,000.00	$135,000.00	$112,140.00	$112,140.00	$205,000.00	$205,000.00
6	Steel Bulkhead Complete (120 lf+/-)	1	LS	$150,000.00	$150,000.00	$139,000.00	$139,000.00	$150,000.00	$150,000.00	$115,000.00	$115,000.00
7	12" Diameter, 24' Min. Long Timber Piles (I/W)	12	EA	$1,200.00	$14,400.00	$1,000.00	$12,000.00	$1,650.00	$19,800.00	$1,000.00	$12,000.00
8	Site Clearing & Restoration	1	LS	$7,500.00	$7,500.00	$10,000.00	$10,000.00	$2,900.00	$2,900.00	$9,000.00	$9,000.00
	TOTAL AMOUNT OF BASE BID (Items 1-8):				**$360,100.00**		**$319,000.00**		**$329,990.00**		**$363,000.00**

Note:

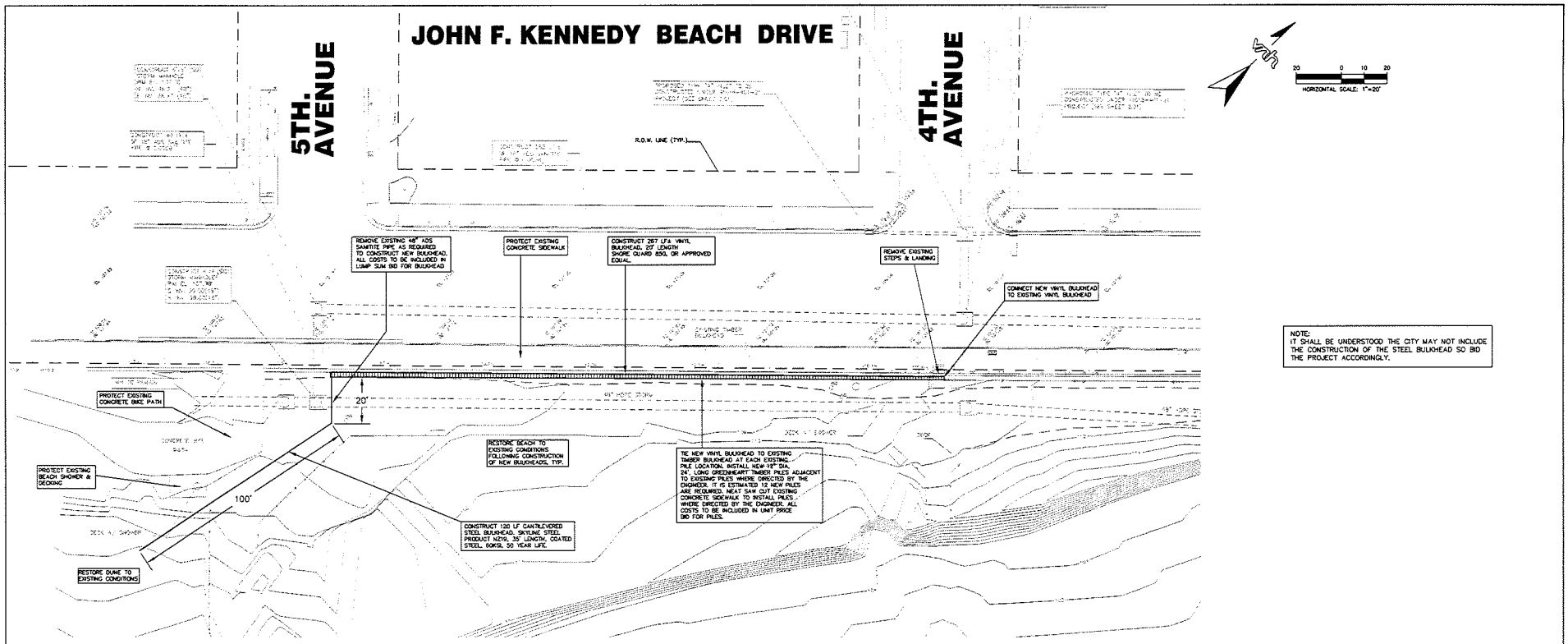
Amount exceeds allowable amount per contract documents ($15,000.00 maximum for bid amounts ranging from $100,000 and $500,000).

PREPARED BY:

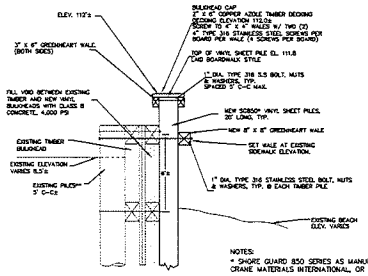
Ralph Petrella 11/16/17

RALPH PETRELLA, JR., CITY ENGINEER DATE

NJ PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. #23226



NOTE:
IT SHALL BE UNDERSTOOD THE CITY MAY NOT INCLUDE THE CONSTRUCTION OF THE STEEL BULKHEAD SO BID THE PROJECT ACCORDINGLY.

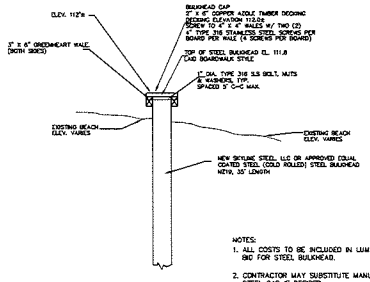


NOTES:
* SHORE GUARD 850 SERIES AS MANUFACTURED BY CRANE MATERIALS INTERNATIONAL, OR APPROVED EQUAL

** 12 TOTAL IF AND WHERE DIRECTED 12" DIA. GREENHEART PILE REPLACEMENT (24' LONG)

ALL COSTS TO BE INCLUDED IN LUMP SUM BID FOR VINYL BULKHEAD COMPLETE, WITH THE EXCEPTION OF IF & WHERE DIRECTED PILES.

TIMBER BULKHEAD CONSTRUCTION DETAIL
NOT TO SCALE



NOTES:
1. ALL COSTS TO BE INCLUDED IN LUMP SUM BID FOR STEEL BULKHEAD.

2. CONTRACTOR MAY SUBSTITUTE MANUFACTURER'S STEEL CAP IF DESIRED.

STEEL BULKHEAD CONSTRUCTION DETAIL
NOT TO SCALE

CONSTRUCT:

QUANTITY	UNIT	DESCRIPTION
1	LS	MOBILIZATION
1	LS	BONDS
1	LS	INSURANCE
1	LS	COLOR VIDEO
1	LS	VINYL BULKHEAD COMPLETE (267 LF±)
1	LS	STEEL BULKHEAD COMPLETE (120 LF±)
12	EA	12" DIA., 24' MIN. LONG TIMBER PILES (IF & WHERE DIRECTED)
1	LS	SITE CLEARING & RESTORATION

NOTES: (SEE COVER SHEET FOR COMPLETE PROJECT NOTES)

1. LOCATION OF UTILITIES IS BASED UPON BEST AVAILABLE INFORMATION AND PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS IN THE FIELD, THE LEAST OF WHICH SHALL BE BY TELEPHONING CARDON STATE UNDERGROUND PLANT LOCATION SERVICE AT 1-800-272-1000.

2. DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 + 100

DATE	OFT.BY	CKD.BY

11-9-17
DATE OF SIGN

RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. #23226

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08540 • 609-987-0333
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization
NJ. 24GA28227100

PLAN FOR:
EMERGENCY BULKHEAD CONSTRUCTION
J.F.K. BOULEVARD
BETWEEN
4TH AVENUE TO 5TH AVENUE
CITY OF NORTH WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	FIELD BK	ORDER No.	FILE No.	SHEET No.
SMP		43611		1
CHECKED BY / DATE: RP	PAGE	400-21		

“M”

Ronald Simone

From:	Patrick Rosenello <Prosenello@NorthWildwood.Com>
Sent:	Thursday, December 07, 2017 9:25 AM
To:	Jim Verna
Cc:	Constantino, Christopher; Ralph Petrella; Sal Zampirri; Kevin Yecco; Ronald Simone; William Dixon; Farrell, Stewart
Subject:	Re: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21)

Chris & Bill:

I wanted to add a comment to Jim's email below. This situation is beyond dire. We are literally racing against time to get a vinyl bulkhead installed ahead of the fastest beach erosion process I have ever seen. And, while the vinyl bulkhead we are currently installing will provide minimum protection of JFK Boulevard, without an extension to the seawall, we are going to see catastrophic damage to JFK and possibly the private property adjacent to JFK if we have any significant coastal storms.

I recognize the complexity of the USACE project, but the delays in getting that project underway, and the fact that we did not plan any additional shore protection measures as we waited that project, have left us dangerously exposed.

Thanks for everything you have done so far, and I hope there is something additional you can do to help us address this critical issue.

Sincerely,

Patrick Rosenello

Patrick Rosenello, Mayor
City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260
P: 609-522-6464
E: Prosenello@NorthWildwood.com

On Dec 6, 2017, at 7:02 PM, _Verna, Jim <jverna@vannoteharvey.com> wrote:

Chris,
Attached please find the following for the referenced project:

1. Preliminary Plans

2. Engineer's Estimate of Probable Construction Costs
3. Pictures from 12/05/17
4. Emergency Bulkhead Replacement Contract Bid Tabulation
5. Copy of most recent payment certificate from APS current street and utility reconstruction contract (see below for reason)

I know we previously discussed potential phases and breaking out the costs associated therewith. However, as you can see from the pictures the beach and the City's coastal protection are in extremely dire condition. We therefore believe the full project must be constructed and implemented immediately. Please note the bulkhead estimated costs are directly from the low bid for the recently bid emergency contract. In addition, the site work and pipe related items unit costs are based upon unit prices we currently have in place for a very large street and utility reconstruction project that we could complete by change order to the current contract. This would be in the best interest of all parties as said project is in excess of $14M, was bid in March of 2016 and has very favorable unit prices. Our contractor, Asphalt Paving Systems, Inc. has already agreed to hold all unit prices, where applicable.

Please review and let me know if you have any questions. I would think a meeting in the immediate future should be convened. The tidal water will be in direct contact with the bulkhead between 5th and 3rd Avenues within a couple of weeks at best. We lost in excess of 40' of dune width this week alone between 3rd and 6th Avenues. The survey data include don the plans is from earlier in the fall. We need to re-survey the beach as a result of massive erosion over the course of the past few weeks, but we are waiting until just prior to solicitation of quotes for this emergency contract.

I am available to meet and/or discuss at your first available convenience.

Thanks,
Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
(609) 465-2600, extension 125 (Voice)
(609) 465-8028 (Fax)
jverna@vannoteharvey.com
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<image003.png>

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<43611 All Sheets.pdf><43611-Seawall Cost Estimate (12-06-17).pdf><IMG_3785.JPG><IMG_3786.JPG><IMG_3787.JPG><IMG_3788.JPG><IMG_3789.JPG><IMG_3790.JPG><43611-Emergency Bulkhead Replacement Bid Tab (11-15-17).pdf><41618-Estimate Cert #12 (11-07-17).pdf>

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Wednesday, December 20, 2017 8:25 AM
To: Kevin Yecco <kyecco@northwildwood.com>
Cc: 'Council President' <prosenello@northwildwood.com>; szampirri@northwildwood.com; _Petrella Jr., Ralph <ralphpetrella@vannoteharvey.com>; _Verna, Jim <jverna@vannoteharvey.com>; 'Ronald Simone' <rsimone@northwildwood.com>; Dixon, William <William.Dixon@dep.nj.gov>
Subject: Re: SEAWALL EXTENSION PROJECT

Great Kevin.

Our intention was to further define roles after the approval point.

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)
609-575-6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: Kevin Yecco <kyecco@northwildwood.com>
Date: 12/20/17 8:21 AM (GMT-05:00)
To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>
Cc: 'Council President' <prosenello@northwildwood.com>, szampirri@northwildwood.com, 'Ralph Petrella' <rpetrellajr@vannoteharvey.com>, "'_Verna, Jim'" <jverna@vannoteharvey.com>, 'Ronald Simone' <rsimone@northwildwood.com>
Subject: RE: SEAWALL EXTENSION PROJECT

Completely understood...but will need to know once that approval is provided if all goes according to hoyle whether your office or the City will be preparing the actual permit application. Thanks again, KMY

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Tuesday, December 19, 2017 3:49 PM
To: Kevin Yecco
Cc: Council President; szampirri@northwildwood.com; Ralph Petrella; '_Verna, Jim'; Ronald Simone
Subject: Re: SEAWALL EXTENSION PROJECT

Kevin,

Please remember that this is all contingent upon final approval of the funds. Our current status is that we are submitting the funding request to the commissioner's office for consideration and approval - with DCE's support and recommendation.

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)
609-575-6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: Kevin Yecco <kyecco@northwildwood.com>
Date: 12/19/17 2:52 PM (GMT-05:00)

To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>, "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>
Cc: Council President <prosenello@northwildwood.com>, szampirri@northwildwood.com, Ralph Petrella <rpetrellajr@vannoteharvey.com>, "'_Verna, Jim'" <jverna@vannoteharvey.com>, Ronald Simone <rsimone@northwildwood.com>
Subject: SEAWALL EXTENSION PROJECT

Chris:

This email shall serve to confirm my verbal commitment to you earlier today, whereby the State shall assume 75% of the above project costs, with the City of North Wildwood being responsible for the remaining 25% project cost share as well as engineering and soft costs.

The only outstanding item is the preparation of the permit application. I recall you indicating that the permit application fees would be waived but I am unclear as to which of us will actually be responsible for the preparation of the permit application. I await your further advice in this regard as well as final written confirmation from your department officials on funding this seawall extension project.

Thank you again for your outstanding assistance in this matter of mutual interest and concern.

Kevin M. Yecco
City Administrator
City of North Wildwood
901 Atlantic Avenue
North Wildwood, NJ 08260
(e) kyecco@northwildwood.com
(c) (609) 425-1483
(p) (609) 522-6464 EXT 1250

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Virus Database (VPS): 171218-6, 12/18/2017
Tested on: 12/19/2017 2:30:10 PM
avast! copyright (c) 1988-2017 AVAST Software.

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“N”

LaPenna, Cynthia

From: _Verna, Jim <jverna@vannoteharvey.com>
Sent: Wednesday, December 20, 2017 5:28 PM
To: Bates, Sarah
Cc: Constantino, Christopher; Doyle, Erick; Dixon, William
Subject: RE: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21)
Attachments: Bulkhead 4th to 5th Plan SIGNED 11-09-17.pdf; 43611-Emergency Bulkhead Replacement Bid Tab (11-15-17).pdf; RE: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21); IMG_3840.JPG; IMG_3841.JPG; IMG_3842.JPG

Sarah,
Please see below in red. I have attached a few pictures from today of the steel bulkhead being installed. The vinyl bulkhead is in place and tied back to the existing timber bulkhead. The top wale and cap on the vinyl bulkhead is still under construction.

Please let me know if you have any additional questions or if I can assist in any other way.

Thanks,
Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
(609) 465-2600, extension 125 (Voice)
(609) 465-8028 (Fax)
jverna@vannoteharvey.com

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From: Bates, Sarah [mailto:Sarah.Bates@dep.nj.gov]
Sent: Wednesday, December 20, 2017 4:03 PM
To: _Verna, Jim <jverna@vannoteharvey.com>
Cc: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>
Subject: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21)

Jim,

I have a few questions regarding the North Wildwood Beach Seawall & Coastal Protective Measures application that was emailed to Chris.

1. There were no plan sheets specific to the sheet piling. Will the bulkhead be cantilever or an anchored system? See attached. I intended to send this with the original submission to Chris and didn't realize until just now that I didn't. Sorry. Please note as mentioned in the original email to Chris I indicated the costs for the bulkhead work (sheet piling) included in the cost estimate were taken directly from the actual bid results. The vinyl portion of the bulkhead is tied-back to the existing timber bulkhead and the steel portion is a cantilevered bulkhead.
2. The northern portion calls for marine mats however I did not see a detail describing these mats, could you provide some additional information such as size of mats, length, width, stone size, etc? Will send you a detail as soon as possible. Essentially will match the marine mats form the ACOE project completed a few years ago in North Wildwood.
3. Is the 48" abandoned storm sewer removal taking place under the contract the City currently has open? The abandoned 48" pipe will be removed and disposed of by the contractor that constructs the seawall. My thought process for this was as follows: the excavation needed to remove the pipe is within the excavation limits needed to construct the seawall; maximize use of trucks – i.e. trucks come to the site loaded with rock and leave the site loaded with the abandoned pipe dropping the same at the local landfill on their way to pick up more rock; this should result in a cost savings.
4. Based on potential excavation limits & tides, a portion of this work is to be performed in the wet. Do you intend the Contractor to use excavated sand as a protective measure? Contractors may elect to install a cofferdam or other means of protection rather than a sand berm due to erosion & proximity to the water table/tides. Was leaving this up to the contractor. If they did not want to utilize the sand to create a protective berm, we would require the sand to be stockpiled onsite to be utilized for beach fill.
5. I would like to confirm the location of the concrete cap as approximately Sta. 1 to Sta. 6+26. Technically yes, because we are proposing a portion of the seawall reinforcement between the pavilion and the 2nd Ave groin to be constructed with concrete (on top of the existing seawall that has the boulders grouted already). It would appear to the average person the cap extends from 1+00 to the 2nd Ave groin, but from an engineering and construction perspective the actual cap (6" thick +/-) is from 1+00 to 6+00+/-
6. Are the current piles able to withstand the additional weight of the concrete encasement for the outfall? Combined with the proposed marine mattress below, yes.

Regards,
Sarah

Sarah Bates
Engineer
NJDEP – Division of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, NJ 08753
Phone: (732) 255-0767
Fax: (732) 255-0774
sarah.bates@dep.nj.gov

LaPenna, Cynthia

From: _Verna, Jim <jverna@vannoteharvey.com>
Sent: Thursday, December 21, 2017 11:31 AM
To: Bates, Sarah
Cc: Constantino, Christopher; Doyle, Erick; Dixon, William
Subject: RE: RE: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21)
Attachments: 43611 Sheet 10.pdf

Sarah,
See attached plan sheet for the marine mattress. This sheet was inadvertently left out of the pdf file previously sent of the seawall plans.

Thanks,
Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
(609) 465-2600, extension 125 (Voice)
(609) 465-8028 (Fax)
jverna@vannoteharvey.com

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From: _Verna, Jim
Sent: Wednesday, December 20, 2017 5:25 PM
To: 'Bates, Sarah' <Sarah.Bates@dep.nj.gov>
Cc: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>
Subject: RE: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21)

Sarah,

Please see below in red. I have attached a few pictures from today of the steel bulkhead being installed. The vinyl bulkhead is in place and tied back to the existing timber bulkhead. The top wale and cap on the vinyl bulkhead is still under construction.

Please let me know if you have any additional questions or if I can assist in any other way.

Thanks,
Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
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From: Bates, Sarah [mailto:Sarah.Bates@dep.nj.gov]
Sent: Wednesday, December 20, 2017 4:03 PM
To: _Verna, Jim <jverna@vannoteharvey.com>
Cc: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>
Subject: North Wildwood Beach Seawall & Coastal Protective Measures (43611-400-21)

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1. There were no plan sheets specific to the sheet piling. Will the bulkhead be cantilever or an anchored system? See attached. I intended to send this with the original submission to Chris and didn't realize until just now that I didn't. Sorry. Please note as mentioned in the original email to Chris I indicated the costs for the bulkhead work (sheet piling) included in the cost estimate were taken directly from the actual bid results. The vinyl portion of the bulkhead is tied-back to the existing timber bulkhead and the steel portion is a cantilevered bulkhead.
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soon as possible. Essentially will match the marine mats form the ACOE project completed a few years ago in North Wildwood.

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4. Based on potential excavation limits & tides, a portion of this work is to be performed in the wet. Do you intend the Contractor to use excavated sand as a protective measure? Contractors may elect to install a cofferdam or other means of protection rather than a sand berm due to erosion & proximity to the water table/tides. Was leaving this up to the contractor. If they did not want to utilize the sand to create a protective berm, we would require the sand to be stockpiled onsite to be utilized for beach fill.
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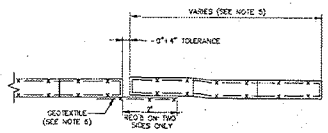
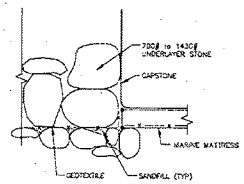
6. Are the current piles able to withstand the additional weight of the concrete encasement for the outfall? Combined with the proposed marine mattress below, yes.

Regards,
Sarah

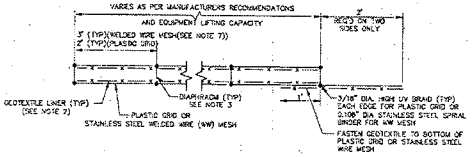
Sarah Bates
Engineer
NJDEP – Division of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, NJ 08753
Phone: (732) 255-0767
Fax: (732) 255-0774
sarah.bates@dep.nj.gov



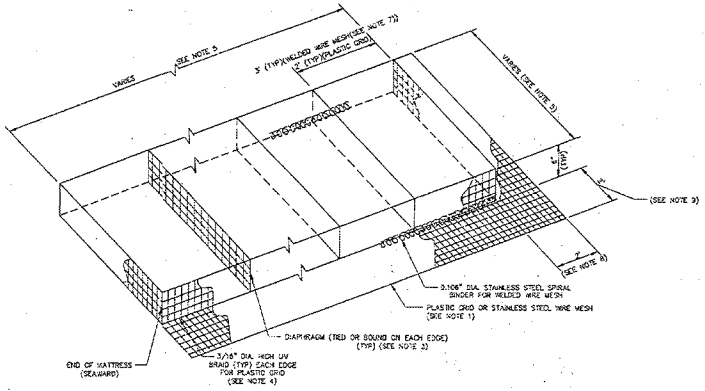
TYPICAL DETAIL–SIDE FOR MARINE MATTRESS PLACEMENT
N.T.S.



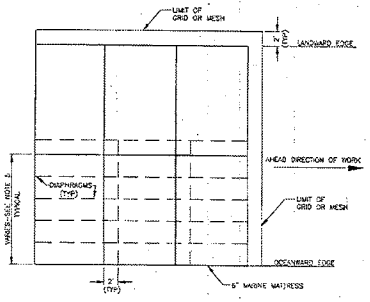
DETAIL–GEOTEXTILE PLACEMENT AT LANDWARD EDGE OF MATTRESS
N.T.S.



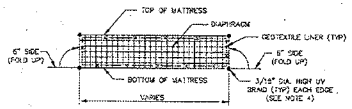
DETAIL–MARINE MATTRESS GEOTEXTILE
N.T.S.



DETAIL–MARINE MATTRESS
N.T.S.



TYPICAL PLAN–MATTRESS PLACEMENT
N.T.S.



END VIEW–MARINE MATTRESS
N.T.S.

NOTES

1. GEOTEXTILE LINING NOT SHOWN FOR CLARITY.
2. FASTEN GEOTEXTILE SECURELY TO PLASTIC GRID OR STAINLESS STEEL WIRE MESH. GEOTEXTILE SHALL BE CONTINUOUS ALONG THE BOTTOM OF THE BASKET.
3. DIAPHRAGM MAY BE CONNECTED USING 3/8" DIA. HDPE BOOKIN ROD FOR PLASTIC GRID AND 0.106" DIA. STAINLESS STEEL SPIRAL BINDER FOR WELDED WIRE (WW) MESH.
4. EDGES SHALL BE TIED USING BRAID AND A LOOK STITCH FOR PLASTIC GRID OR A STAINLESS STEEL WELDED SPIRAL BINDER FOR THE STAINLESS STEEL WELDED WIRE MESH AS PER MANUFACTURER'S REQUIREMENTS.
5. MATTRESS WIDTHS MAY VARY DEPENDING ON THE MANUFACTURER'S SPECIFICATIONS AND/OR REQUIREMENTS. (i.e. SPREADER BAR DESIGN, NUMBER OF LIFTING POINTS, AND STRENGTH OF GRID OR MESH etc.). CONTRACTOR MAY TIE INDIVIDUAL MATTRESSES TOGETHER TO PLACE A SINGLE UNIT. CONTRACTOR SHALL FOLLOW MANUFACTURER'S REQUIREMENTS FOR CONNECTING MATS TOGETHER.
6. MARINE MATTRESS AND GEOTEXTILE ARE OFFSET FOR CLARITY.
7. STAINLESS STEEL WELDED WIRE MESH MATTRESSES MAY HAVE DIAPHRAGMS SPACED AT 5' O-C FOR MATTRESSES PLACED UNDER TWO LAYERS OF CAPSTONE.
8. ORIENT PLASTIC GRID OR WW MESH EXTENSION ON THE LANDWARD SIDE OF THE MARINE MATTRESS.
9. ORIENT PLASTIC GRID OR WW MESH EXTENSION IN THE AHEAD DIRECTION OF THE MATTRESS PLACEMENT.

REV.	DESCRIPTION	DATE	OFFSET	DOUBLE

RALPH PETRELLA JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR
LIC. NO. GE 33536
12/06/17
DATE OF SIGN.

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consulting engineers, planners & land surveyors
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211 Stedman Drive • Cape May Court House, NJ 08210 • 609-465-3200
www.vanNoteHarvey.com
Certificate of Authorization No. 24GA28001400

MARINE MATTRESS DETAILS FOR:
PROPOSED SEAWALL
JFK BLVD. FROM 2ND - 5TH AVENUES
CITY OF NORTH WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY	STC	FIELD BK.	ORDER No.	FILE No.	SHEET No.
CHECKED BY		PAGE	23006-100-21		10

“O”

LaPenna, Cynthia

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Friday, January 05, 2018 2:06 PM
To: _Verna, Jim; Ronald Simone
Subject: RE: Damage to Dunes 43611-400-21

Thanks!

From: _Verna, Jim [mailto:jverna@vannoteharvey.com]
Sent: Friday, January 5, 2018 12:30 PM
To: Ronald Simone <rsimone@northwildwood.com>
Cc: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Subject: RE: Damage to Dunes 43611-400-21

Those pictures show the vinyl bulkhead installed in 2013 following the Sandy damage. The new vinyl bulkhead starts at the existing electric cabinet (where the sand/snow fence anchored to the bulkhead terminates).

Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
(609) 465-2600, extension 125 (Voice)
(609) 465-8028 (Fax)
jverna@vannoteharvey.com

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From: Ronald Simone [mailto:rsimone@northwildwood.com]
Sent: Friday, January 05, 2018 12:24 PM
To: _Verna, Jim <jverna@vannoteharvey.com>
Cc: Christopher Constantino <Christopher.Constantino@dep.nj.gov>
Subject: FW: Damage to Dunes

Jim,

Can you advise if the pictures attached show the new vinyl or old vinyl?

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Friday, January 05, 2018 12:12 PM
To: Ronald Simone
Subject: RE: Damage to Dunes

Is that the new vinyl or the old vinyl

From: Ronald Simone [mailto:rsimone@northwildwood.com]
Sent: Friday, January 05, 2018 12:05 PM
To: Christopher Constantino (Christopher.Constantino@dep.nj.gov)
Subject: Damage to Dunes

Chris,

Please see pictures attached. Hard to do a full assessment today with 6' snow banks along JFK.

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

"P"

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Engineering and Construction
Division of Coastal Engineering
1510 Hooper Ave; Suite 140
Toms River, N. J. 08753
Tel. 732-255-0767 Fax 732-255-0774

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

January 10, 2018

Honorable Patrick T. Rosenello
Mayor, City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260

Dear Mayor Rosenello:

I am pleased to inform you that the New Jersey Department of Environmental Protection Engineering and Construction (NJDEP-E&C), Division of Coastal Engineering (DCE) has approved your request for a shore protection grant for the seawall reconstruction and extension in your community. Consistent with the provisions of the Shore Protection Funding Program, DCE will fund 75 percent of the total construction cost of the City's request for a proposed seawall reconstruction and extension project, excluding engineering costs. The project has been included in the fiscal year 2018 spending plan and approved for the 75 percent State cost not to exceed $6,767,212.50.

The City is responsible for all engineering designs, permit drawings, preparation and submission of all required State and Army Corps of Engineers permit applications, all required public access and easements (including right of ways), and minor engineering revisions, if required. DCE will provide assistance with the engineering plan and specification review, sign as a co-applicant on all permit applications, solicit and obtain a pre-qualified contractor, and manage the construction with onsite inspection from project commencement to conclusion.

Please contact Erick Doyle, Manager, Bureau of Construction at (732) 255-0767 to schedule a meeting with the borough engineer and all representatives of North Wildwood concerning this project. Congratulations on this grant award. The implementation of this important project will provide protection to your citizens and North Wildwood's infrastructure.

Sincerely,

William T. Dixon, Director
Division of Coastal Engineering

c: Dave Rosenblatt, Assistant Commissioner, NJDEP-E&C
Kevin Yecco, City Administrator, City of North Wildwood
Erick Doyle, Manager, NJDEP-E&C, DCE, Bureau of Construction

“Q”

Ronald Simone

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Thursday, August 23, 2018 9:30 AM
To: _Park, Tom; _Verna, Jim; Kevin Yecco (kyecco@northwildwood.com); Ronald Simone
Cc: Bates, Sarah; Doyle, Erick; Dixon, William; _Petrella Jr., Ralph; Mayor Patrick Rosenello
Subject: RE: Steven's Assistance on Seawall Stone Size determination 43611-400-21

Tom,

I just want to follow up – I don't recall getting the post-fill beach topo or the invert of the 21st Ave and the Poplar Ave outfall.

Did you get a chance to send that? Did I miss it?

Thanks Tom...

Chris

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

From: _Park, Tom <tpark@vannoteharvey.com>
Sent: Tuesday, June 5, 2018 2:07 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; _Verna, Jim <jverna@vannoteharvey.com>; Kevin Yecco (kyecco@northwildwood.com) <kyecco@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Cc: Bates, Sarah <Sarah.Bates@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>; _Petrella Jr., Ralph <ralphpetrella@vannoteharvey.com>; Mayor Patrick Rosenello <prosenello@northwildwood.com>
Subject: RE: Steven's Assistance on Seawall Stone Size determination 43611-400-21

Chris,
Attached find our CAD file for the current Seawall and Bulkhead plan. This plan shows the as-built location of the new bulkhead as well as the location and invert of the 3rd avenue outfall.
We will be retopoing the beach later this week to reflect the recently completed beach fill project and we will forward that CAD file to you as soon as it is completed. This will also show the location and invert of the outfall at 21st.

Tom

Thomas B. Park, P.L.S.

Senior Project Manager
Email: tpark@vannoteharvey.com

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Engineers • Planners • Land Surveyors • Environmental Consultants
211 Bayberry Drive, Suite 2-E
Cape May Court House, N.J. 08210
609-465-2600 ~ Ext. 115 Fax 609-465-8028
Visit us at **www.vannoteharvey.com**

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From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Wednesday, May 23, 2018 10:04 PM
To: _Verna, Jim; Kevin Yecco (kyecco@northwildwood.com); Ronald Simone; _Park, Tom
Cc: Bates, Sarah; Doyle, Erick; Dixon, William; _Petrella Jr., Ralph; Mayor Patrick Rosenello
Subject: Re: Steven's Assistance on Seawall Stone Size determination 43611-400-21

Jim,

I just want to follow up.. The Corps is looking for as-built surveys of the new structures that you put in place since last fall – the designers would like to incorporate that into their beachfill plans and possibly do some model runs with these new structures and newer profile data.

Also, the Corps is interested in obtaining the positions and elevations of the inverts for the outfalls within the footprint of the Corps beachfill - for North Wildwood, the ones we extended in 2009/2010. 3rd, 21st and Poplar.

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)
609-575-6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: "_Verna, Jim" <jverna@vannoteharvey.com>
Date: 4/18/18 4:48 PM (GMT-05:00)
To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>, "Kevin Yecco (kyecco@northwildwood.com)" <kyecco@northwildwood.com>, Ronald Simone <rsimone@northwildwood.com>, "_Park, Tom" <tpark@vannoteharvey.com>
Cc: "Bates, Sarah" <Sarah.Bates@dep.nj.gov>, "Doyle, Erick" <Erick.Doyle@dep.nj.gov>, "Dixon, William" <William.Dixon@dep.nj.gov>, "_Petrella Jr., Ralph" <ralphpetrella@vannoteharvey.com>, Mayor Patrick Rosenello <prosenello@northwildwood.com>
Subject: RE: Steven's Assistance on Seawall Stone Size determination 43611-400-21

Tom,

Please send the CAD file for the emergency beach fill plans (43611-400-21).

Thanks,

JV3

James W. Verna III

Senior Project Coordinator

Van Note – Harvey Associates, Inc.

211 Bayberry Drive, Suite 2-E

Cape May Court House, NJ 08210

(609) 465-2600, extension 125 (Voice)

(609) 465-8028 (Fax)

jverna@vannoteharvey.com

Van Note-Harvey Associates, Inc.

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From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Wednesday, April 18, 2018 4:46 PM
To: _Verna, Jim <jverna@vannoteharvey.com>; Kevin Yecco (kyecco@northwildwood.com) <kyecco@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Cc: Bates, Sarah <Sarah.Bates@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>; _Petrella Jr., Ralph <ralphpetrella@vannoteharvey.com>; Mayor Patrick Rosenello <prosenello@northwildwood.com>
Subject: RE: Steven's Assistance on Seawall Stone Size determination 43611-400-21

Thanks for the quick response Jim.

I will forward this over but yes – could you please send a CAD file for us to send out?

Thanks again..

Chris

From: _Verna, Jim [mailto:jverna@vannoteharvey.com]
Sent: Wednesday, April 18, 2018 4:42 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; Kevin Yecco (kyecco@northwildwood.com) <kyecco@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Cc: Bates, Sarah <Sarah.Bates@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>; _Petrella Jr., Ralph <ralphpetrella@vannoteharvey.com>; Mayor Patrick Rosenello <prosenello@northwildwood.com>
Subject: RE: Steven's Assistance on Seawall Stone Size determination 43611-400-21

Chris,

See attached latest survey data. These plans were prepared for an emergency beach fill that will commence on Monday 04.23.18. Next week we will update the prior seawall plans to include the latest survey data. I am sure you can understand, every time we started to survey the beach again, another nor'easter came through and hammered us and hence the reason for the delay in providing.

Do you want the CAD file for the attached plans?

Thanks,

Jim

James W. Verna III

Senior Project Coordinator

Van Note – Harvey Associates, Inc.

211 Bayberry Drive, Suite 2-E

Cape May Court House, NJ 08210

(609) 465-2600, extension 125 (Voice)

(609) 465-8028 (Fax)

jverna@vannoteharvey.com

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From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Wednesday, April 18, 2018 4:36 PM
To: Kevin Yecco (kyecco@northwildwood.com) <kyecco@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>; _Verna, Jim <jverna@vannoteharvey.com>
Cc: Bates, Sarah <Sarah.Bates@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>
Subject: Steven's Assistance on Seawall Stone Size determination

Kevin/Ron/Jim,

As per our meeting several weeks back, Jon Miller (of Steven's) pledged to provide guidance on determining the appropriate Stone Size for the proposed seawall project.

Jon got back to us indicating that they did some calcs based on the old profile data but were waiting to see if you collected any new data after the Nor'easter's - we believe you indicated that you were going to. If you did and I missed the correspondence, I apologize.

However, if the weather and the seas prevented new data from being collected, they indicated that they could write up the stone size assessment with what they have right now.

Also, the Corps is looking for as-built surveys of the new structures that you put in place since last fall – the designers would like to incorporate that into their beachfill plans and possibly do some model runs with these new structures and newer profile data.

Sincerely,

Chris Constantino

Environmental Specialist 3

NJDEP, Division of Coastal Engineering

1510 Hooper Ave., Ste. 140

Toms River, NJ – 08753

732-255-0767 – office

609-575-6969 – (business cell)

Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov

Please consider the environment before printing this message.

Ronald Simone

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Thursday, August 23, 2018 12:40 PM
To: Rourke, Erik J CIV USARMY CENAP (US); 'jim verna' (jverna@vannoteharvey.com); Ronald Simone; Kevin Yecco (kyecco@northwildwood.com); Mayor' (prosenello@northwildwood.com)
Cc: Benigno, John; Bates, Sarah; Doyle, Erick; Dixon, William; Constantino, Christopher
Subject: North Wildwood Seawall (Plans/Real Estate meeting)

Importance: High

All,

We'd like to have a meeting to discuss the upcoming North Wildwood Seawall project early next week. Some of the things to discuss are the scope of work, the real estate and the need for temporary easements, and to ensure that the City is comfortable with the proposed staging/storage area and the easement that encumbers those parcels for this project. Additionally, timing for financing and tentative construction schedule could be points of discussion at this meeting

Additionally, if North Wildwood is prepared – maybe we can discuss the 408 comments that the City received from the Corps a few weeks back ....

I've created a Doodle poll proposing a few time slots to determine availability: https://doodle.com/poll/7txbyugkyb4virmm

If these times don't work or you wish to see additional time slots added, please let me know ASAP..

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

Ronald Simone

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Thursday, October 25, 2018 8:45 AM
To: 'Constantino, Christopher'; 'william.kaufmann@cafierolaw.com'
Cc: 'Patrick Rosenello'; 'Dixon, William'; 'Kevin Yecco'
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Chris,

Is there a conference call # and passcode that you would like for us to use for the 1:00 p.m. conference call today?

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Wednesday, October 24, 2018 12:25 PM
To: william.kaufmann@cafierolaw.com; Ronald Simone
Cc: Patrick Rosenello; Dixon, William; Kevin Yecco
Subject: Re: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Let's have our call at 1pm on Thursday, 10/24...

I will send an invite seperately.

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)
609-575-6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: william.kaufmann@cafierolaw.com
Date: 10/23/18 4:16 PM (GMT-05:00)
To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>, Ronald Simone <rsimone@northwildwood.com>
Cc: Patrick Rosenello <prosenello@northwildwood.com>, "Dixon, William" <William.Dixon@dep.nj.gov>, Kevin Yecco <kyecco@northwildwood.com>
Subject: Re: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

As of now Thursday is clear all day.

William J Kaufmann

Sent from my BlackBerry Smartphone on the Verizon 4G LTE Network

From: Christopher.Constantino@dep.nj.gov
Sent: October 23, 2018 16:05
To: rsimone@northwildwood.com; william.kaufmann@cafierolaw.com
Cc: prosenello@northwildwood.com; William.Dixon@dep.nj.gov; kyecco@northwildwood.com
Subject: Re: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Thanks Ron.

We would like to have all parties represented on this call so Thursday may be the best option.

I will confirm a time with Bill Dixon and get back to you all either later today or tomorrow.

We appreciate your time.

Chris Constantino
NJDEP, Division of Coastal Engineering
732 258 0767 (p)
609 575 6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: Ronald Simone <rsimone@northwildwood.com>
Date: 10/23/18 3:59 PM (GMT-05:00)
To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>, william.kaufmann@cafierolaw.com
Cc: 'Patrick Rosenello' <prosenello@northwildwood.com>, "Dixon, William" <William.Dixon@dep.nj.gov>, 'Kevin Yecco' <kyecco@northwildwood.com>
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Chris,

I will be out of the office all day tomorrow for our Joint Insurance Fund Retreat/Seminar, but please feel free to conduct any conference call with Mr. Kaufmann tomorrow in lieu of my absence. Kevin will also be out of the office tomorrow.

I am available any time on Thursday afternoon for a conference call.

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Tuesday, October 23, 2018 3:24 PM
To: william.kaufmann@cafierolaw.com
Cc: Patrick Rosenello; Ronald Simone; Dixon, William; Kevin Yecco (kyecco@northwildwood.com)
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue
Importance: High

Bill,

As requested, please find an aerial for your discussions with Aqua Beach.

Additionally, Bill Dixon and I would like to have a conference call with you and the City to get an update and a schedule on this effort and to see if there is anything the City needs from the Corps and DCE to assistance with expediting this effort.

The Corps has much of its requirements in alignment to begin the advertisement process in early November.

Could you please offer up times for yourself and the City on Wednesday after 2pm and on Thursday, where we could conduct this call?

Thanks in advance..

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov

Please consider the environment before printing this message.

From: william.kaufmann@cafierolaw.com <william.kaufmann@cafierolaw.com>
Sent: Thursday, October 18, 2018 2:59 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Cc: Patrick Rosenello <prosenello@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Thanks Chris.

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Thursday, October 18, 2018 2:49 PM
To: william.kaufmann@cafierolaw.com
Cc: Patrick Rosenello <prosenello@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Subject: Re: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

I justed forwarded the last list from a seperate email. I am in hearings all day today and tomorrow.

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)
609-575-6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: william.kaufmann@cafierolaw.com
Date: 10/18/18 9:26 AM (GMT-05:00)
To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>
Cc: Patrick Rosenello <prosenello@northwildwood.com>, Ronald Simone <rsimone@northwildwood.com>
Subject: Re: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Chris:
I am out of the office this morning and will be in this afternoon. In the meantime, do you have a chart or print-out, spreadsheet or r some other type of stand-alone document that has not been exchanged multiple times in multiple emails on which there are multiple recipients which lists the affected property owners and their block/lot. I want to double-check that list against the assessment records to make sure I've accurately identified everyone. Also, we already have permanent easements from all of these property owners that gives us access for maintenance purposes. In my opinion (except for the access easement to Aqua Beach) we would not need new easements. However, as I understand this project we will be utilizing areas that are not covered by the language of the permanent easement. Assuming that to be the case then we would need new temporary easements. Therefore, does anyone have descriptive language that describes the new easement areas which would be included in each new easement? If so can you send me that language? Thanks

William J Kaufmann

Sent from my BlackBerry Smartphone on the Verizon 4G LTE Network

From: Christopher.Constantino@dep.nj.gov
Sent: October 18, 2018 08:53
To: rsimone@northwildwood.com

Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; jverna@vannoteharvey.com; tburkey@northwildwood.com; nlong@northwildwood.com; Sarah.Bates@dep.nj.gov; william.kaufmann@cafierolaw.com; Erick.Doyle@dep.nj.gov; William.Dixon@dep.nj.gov; Erik.J.Rourke@usace.army.mil; John.Benigno@dep.nj.gov
Subject: Re: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Good morning,

I just wanted to follow up and see if we can get update on the status of coordinating with the property owners.

Also I wanted to confirm with Bill Kaufman that the easement language he used for the original temporary work area easements will suffice

Chris Constantino
NJDEP, Division of Coastal Engineering
732-255-0767 (p)
609-575-6969 (c)
Please excuse any typos as this has been sent via the Samsung Galaxy S®6 active, an AT&T 4G LTE smartphone

-------- Original message --------
From: Ronald Simone <rsimone@northwildwood.com>
Date: 10/1/18 10:58 AM (GMT-05:00)
To: "Constantino, Christopher" <Christopher.Constantino@dep.nj.gov>
Cc: kyecco@northwildwood.com, prosenello@northwildwood.com, 'Jim Verna' <jverna@vannoteharvey.com>, tburkey@northwildwood.com, nlong@northwildwood.com, "Bates, Sarah" <Sarah.Bates@dep.nj.gov>, william.kaufmann@cafierolaw.com, "Doyle, Erick" <Erick.Doyle@dep.nj.gov>, "Dixon, William" <William.Dixon@dep.nj.gov>, "'Rourke, Erik J CIV USARMY CENAP (US)'" <Erik.J.Rourke@usace.army.mil>, "Benigno, John" <John.Benigno@dep.nj.gov>
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Chris,

Thank you for the follow up information.

Mr. Kaufmann now has the outstanding blocks and lots for the remaining properties that will require egrees/ingress easements. We will make this a priority, knowing that it is time sensitive with the Army Corps intended date of advertisement set for November, and they cannot advertise without this.

I will keep this email chain updated with any new developments, questions, etc. Thank you all again for your continued efforts on these mitigation projects.

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Friday, September 28, 2018 5:31 PM
To: Ronald Simone
Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; 'Jim Verna'; tburkey@northwildwood.com; nlong@northwildwood.com; Bates, Sarah; william.kaufmann@cafierolaw.com; Doyle, Erick; Dixon, William; 'Rourke, Erik J CIV USARMY CENAP (US)'; Benigno, John
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Ron,

1. State/Local oceanfront Seawall Extension Project

We have some typical procedure and language in the State Aid Agreements that will address Items #1 and #2 in your follow up below. Erick D. will gets some clarification and sample language to you by the beginning of next week. And Sarah will be around mid-week next to discuss engineering stuff if necessary. We haven't heard back from Steven's but I shoot another email to Jon tonight.

2. USACE Seawall repair project:

Attached is the updated spreadsheet I promised – sorry for the delay.

Notes:
1. Repairs 1 & 2:
   a. Added rights of ingress and egress to B30/L82 and B30/L81 so the inspectors have a way to get behind repair area two without having to walk all the way down the wall from the north.
   b. Added B30/L80 as discussed.

2. Repair 3: Added B30/L64 for rights of ingress and egress only so inspectors can get behind the properties to view the repair/work.

3. Laydown Area:
   a. Areas marked in gray needed for laydown only (no repairs). Therefore, the minimum requirement for those is TWAE. Since they already have a full seawall easement, the rights required for the use of the properties as TWAEs are already in place.
   b. Added the paper street portions of Anglesea Dr that squares off the park as shown on the construction drawings. Since that area is shown as a part of the laydown area, a TWAE is required.

I will be on leave and generally unavailable next week, however, I will be checking emails and periodically addressing things during this time. Erik Rourke is available if you have real estate or overall project questions. And John Benigno is available for questions related to the engineering.

Sincerely,

Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Thursday, September 27, 2018 2:37 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; 'Jim Verna' <jverna@vannoteharvey.com>; tburkey@northwildwood.com; nlong@northwildwood.com; Bates, Sarah <Sarah.Bates@dep.nj.gov>; william.kaufmann@cafierolaw.com; Doyle, Erick <Erick.Doyle@dep.nj.gov>; Dixon, William <William.Dixon@dep.nj.gov>; 'Rourke, Erik J CIV USARMY CENAP (US)' <Erik.J.Rourke@usace.army.mil>
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Chris,

Thank you very much for the detailed response and confirmation about funding. This just about answers most of our questions...However, just need a couple clarifications with regard to our funding match for the Seawall Extension:

1. What if the bid comes in over/under the current estimates?
2. What about change orders/cost overruns/underruns?

Furthermore, and per your email below, please accept this email as the City of North Wildwood's informal approval to sign the State Aid Agreements in question for both the Seawall Extension and Seawall repair projects. Please advise when they are available for review, consideration, and ultimately, approval/adoption by City Council resolution. With regard to the seawall repairs, Bill Kaufmann will assist with securing easements from the adjacent property owners, per his email from yesterday.

I appreciate your assistance in getting this information to us, so we may be better prepared to fund the matches of these major mitigation projects. Thanks again for your help!

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Thursday, September 27, 2018 12:41 PM
To: Ronald Simone
Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; Jim Verna; tburkey@northwildwood.com; nlong@northwildwood.com; Bates, Sarah; william.kaufmann@cafierolaw.com; Doyle, Erick; Dixon, William; Rourke, Erik J CIV USARMY CENAP (US)
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Ron et al,

Sorry for the delay in the response.

1. State/Local oceanfront Seawall Extension Project
    a. Anticipated timeframe for the construction of the State/Local oceanfront Seawall Extension Project, ***best case scenario*** – Late Spring/Summer of 2019.
    b. Anticipated timeframe for the advertising for bid, ***best case scenario*** – February/March 2019 (unless we advertise without permits, which then could be sooner, not sure we are at the point to decide that yet)
        i. On this project, we will need an executed State Aid agreement and need to have the City's funds in hand ***prior to advertising***.
    c. Our office received the application package and we are currently reviewing the contents provided in the 09/10/2018 email (attached) – I've noted a few things that need correction but I would like to consult with the team before providing final comment.
        i. Hope to have those comments back by COB on Friday, 09/27/2018.
2. USACE Seawall repair project:
    a. Funding – if the funds can be paid to NJDEP in full by Spring of 2019, we can just simply execute a State Aid Agreement with additional language about the timing of the receipt of funds, etc.
    b. Real Estate – as you are aware, I have spoken with the project manager and the real estate specialist – they would like to advertise in November, however outstanding real estate is required prior to advertisement.
        i. We have the ability to provide a Right of Entry (ROE) to the Corps prior to the acquisition of the necessary easements – this ROE (or the executed easements) need to be provided ASAP.
        ii. However, NJDEP would have to assess the risk involved and be fully confident that we will actually get all of the easements.
            1. We have an updated parcel list – I will have this to you soon (possibly by COB today)
                a. This list adds 1 more parcel for a temporary work area easement
                b. Also, we like to seek 1 (possibly 2) pedestrian ingress/egress easements
                i. This would be to provide an agreed upon route for inspectors and contractors to access the site on foot.

Feel free to get in touch if you have any questions...

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Tuesday, September 18, 2018 12:33 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; 'Rourke, Erik J CIV USARMY CENAP (US)' <Erik.J.Rourke@usace.army.mil>; Dixon, William <William.Dixon@dep.nj.gov>
Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; Jim Verna <jverna@vannoteharvey.com>; tburkey@northwildwood.com; nlong@northwildwood.com
Subject: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Good afternoon Chris,

A couple follow ups and some new information regarding a funding issue that we are experiencing that will impact our ability to timely fund the project match for the Army Corps Seawall Repairs project.

Follow ups:

1. Following up regarding our request for a tentative anticipated funding timeline for the Seawall Extension Project, as we are currently in the planning stage for 2019-2021 Capital funding and need to make sure that the necessary funds are available to meet NJDEP requirement(s).
2. On behalf of Jim Verna, City Engineer, following up regarding some paperwork (CAFRA App(s)., etc.) that was submitted to your office for co-applicant signatures with regard to the Seawall Extension Project.

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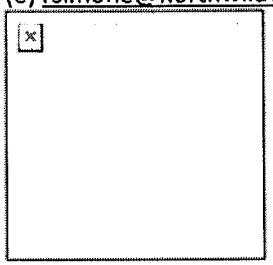
If you have any questions or concerns, I am available by phone or email. Thank you for acknowledging the above and for your cooperation in this regard.

Very sincerely,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766

(e) rsimone@northwildwood.com



From: Ronald Simone [mailto:rsimone@northwildwood.com]
Sent: Tuesday, September 11, 2018 9:17 AM
To: Christopher Constantino (Christopher.Constantino@dep.nj.gov)
Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; Jim Verna (jverna@vannoteharvey.com); tburkey@northwildwood.com; nlong@northwildwood.com
Subject: RE: Seawall Extension Project - Anticipated Request for Funding Match

Good morning Chris,

Just following up again regarding my email request from last week. Please see below for additional information. I am guessing the pictures that I just sent you of water breaching the seawall are regarding this project.

Thank you for your assistance and for any estimates that you can provide.

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Ron

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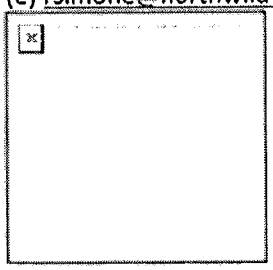

From: Ronald Simone [mailto:rsimone@northwildwood.com]
Sent: Tuesday, September 04, 2018 4:50 PM
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Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; Jim Verna (jverna@vannoteharvey.com); tburkey@northwildwood.com; nlong@northwildwood.com
Subject: Seawall Extension Project - Anticipated Request for Funding Match

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At your earliest convenience and after consultation with your department, would you be able to provide us with a projected timeline that includes the EARLIEST case scenario that funding for the project will be requested by NJDEP?

Thank you in advance for your assistance and any further information that you can provide in this regard, as it will greatly assist us with our long-term capital planning for the future.

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City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

Ronald Simone

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Thursday, September 27, 2018 2:37 PM
To: 'Constantino, Christopher'
Cc: 'kyecco@northwildwood.com'; 'prosenello@northwildwood.com'; 'Jim Verna'; 'tburkey@northwildwood.com'; 'nlong@northwildwood.com'; 'Bates, Sarah'; 'william.kaufmann@cafierolaw.com'; 'Doyle, Erick'; 'Dixon, William'; 'Rourke, Erik J CIV USARMY CENAP (US)'
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Chris,

Thank you very much for the detailed response and confirmation about funding. This just about answers most of our questions...However, just need a couple clarifications with regard to our funding match for the Seawall Extension:

1. What if the bid comes in over/under the current estimates?
2. What about change orders/cost overruns/underruns?

Furthermore, and per your email below, please accept this email as the City of North Wildwood's informal approval to sign the State Aid Agreements in question for both the Seawall Extension and Seawall repair projects. Please advise when they are available for review, consideration, and ultimately, approval/adoption by City Council resolution. With regard to the seawall repairs, Bill Kaufmann will assist with securing easements from the adjacent property owners, per his email from yesterday.

I appreciate your assistance in getting this information to us, so we may be better prepared to fund the matches of these major mitigation projects. Thanks again for your help!

Kind regards,
Ron

Ronald Simone, MPA
Administrative Assistant
City of North Wildwood
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(c) (609) 600-7766
(e) rsimone@northwildwood.com

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Thursday, September 27, 2018 12:41 PM
To: Ronald Simone

Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; Jim Verna; tburkey@northwildwood.com; nlong@northwildwood.com; Bates, Sarah; william.kaufmann@cafierolaw.com; Doyle, Erick; Dixon, William; Rourke, Erik J CIV USARMY CENAP (US)
Subject: RE: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Ron et al,

Sorry for the delay in the response.

1. State/Local oceanfront Seawall Extension Project
    a. Anticipated timeframe for the construction of the State/Local oceanfront Seawall Extension Project, ***best case scenario*** – Late Spring/Summer of 2019.
    b. Anticipated timeframe for the advertising for bid, ***best case scenario*** – February/March 2019 (unless we advertise without permits, which then could be sooner, not sure we are at the point to decide that yet)
        i. On this project, we will need an executed State Aid agreement and need to have the City's funds in hand ***prior to advertising***.
    c. Our office received the application package and we are currently reviewing the contents provided in the 09/10/2018 email (attached) – I've noted a few things that need correction but I would like to consult with the team before providing final comment.
        i. Hope to have those comments back by COB on Friday, 09/27/2018.
2. USACE Seawall repair project:
    a. Funding – if the funds can be paid to NJDEP in full by Spring of 2019, we can just simply execute a State Aid Agreement with additional language about the timing of the receipt of funds, etc.
    b. Real Estate – as you are aware, I have spoken with the project manager and the real estate specialist – they would like to advertise in November, however outstanding real estate is required prior to advertisement.
        i. We have the ability to provide a Right of Entry (ROE) to the Corps prior to the acquisition of the necessary easements – this ROE (or the executed easements) need to be provided ASAP.
        ii. However, NJDEP would have to assess the risk involved and be fully confident that we will actually get all of the easements.
            1. We have an updated parcel list – I will have this to you soon (possibly by COB today)
                a. This list adds 1 more parcel for a temporary work area easement
                b. Also, we like to seek 1 (possibly 2) pedestrian ingress/egress easements
                i. This would be to provide an agreed upon route for inspectors and contractors to access the site on foot.

Feel free to get in touch if you have any questions...

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Tuesday, September 18, 2018 12:33 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>; Doyle, Erick <Erick.Doyle@dep.nj.gov>; 'Rourke, Erik J CIV USARMY CENAP (US)' <Erik.J.Rourke@usace.army.mil>; Dixon, William <William.Dixon@dep.nj.gov>
Cc: kyecco@northwildwood.com; prosenello@northwildwood.com; Jim Verna <jverna@vannoteharvey.com>; tburkey@northwildwood.com; nlong@northwildwood.com
Subject: [EXTERNAL] Seawall Extension Project - Funding Timeline, Army Corps Seawall Repairs - Funding Issue

Good afternoon Chris,

A couple follow ups and some new information regarding a funding issue that we are experiencing that will impact our ability to timely fund the project match for the Army Corps Seawall Repairs project.

Follow ups:

1. Following up regarding our request for a tentative anticipated funding timeline for the Seawall Extension Project, as we are currently in the planning stage for 2019-2021 Capital funding and need to make sure that the necessary funds are available to meet NJDEP requirement(s).
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LaPenna, Cynthia

From: _Verna, Jim
Sent: Wednesday, April 18, 2018 4:42 PM
To: Constantino, Christopher; Kevin Yecco (kyecco@northwildwood.com); Ronald Simone
Cc: Bates, Sarah; Doyle, Erick; Dixon, William; _Petrella Jr., Ralph; Mayor Patrick Rosenello
Subject: RE: Steven's Assistance on Seawall Stone Size determination 43611-400-21
Attachments: 43611-All Sheets.pdf

Chris,
See attached latest survey data. These plans were prepared for an emergency beach fill that will commence on Monday 04.23.18. Next week we will update the prior seawall plans to include the latest survey data. I am sure you can understand, every time we started to survey the beach again, another nor'easter came through and hammered us and hence the reason for the delay in providing.

Do you want the CAD file for the attached plans?

Thanks,
Jim

James W. Verna III
Senior Project Coordinator
Van Note – Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
(609) 465-2600, extension 125 (Voice)
(609) 465-8028 (Fax)
jverna@vannoteharvey.com

Van Note-Harvey Associates, Inc.
Engineers • Planners • Land Surveyors • Environmental Consultants

Visit us at **www.vannoteharvey.com**

By opening the files attached herewith, addressee acknowledges that files of text, data or graphics or other information contained in the attached electronic files are furnished by Van Note-Harvey Associates, Inc. solely for the convenience of the addressed user. Any information or data obtained or derived from these electronic files will be used at the sole risk and liability of the addressed user.

From: Constantino, Christopher [mailto:Christopher.Constantino@dep.nj.gov]
Sent: Wednesday, April 18, 2018 4:36 PM
To: Kevin Yecco (kyecco@northwildwood.com) ; Ronald Simone ; _Verna, Jim
Cc: Bates, Sarah ; Doyle, Erick ; Dixon, William
Subject: Steven's Assistance on Seawall Stone Size determination

Kevin/Ron/Jim,

As per our meeting several weeks back, Jon Miller (of Steven's) pledged to provide guidance on determining the appropriate Stone Size for the proposed seawall project.

Jon got back to us indicating that they did some calcs based on the old profile data but were waiting to see if you collected any new data after the Nor'easter's - we believe you indicated that you were going to. If you did and I missed the correspondence, I apologize.

However, if the weather and the seas prevented new data from being collected, they indicated that they could write up the stone size assessment with what they have right now.

Also, the Corps is looking for as-built surveys of the new structures that you put in place since last fall – the designers would like to incorporate that into their beachfill plans and possibly do some model runs with these new structures and newer profile data.

Sincerely,
Chris Constantino
Environmental Specialist 3
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ – 08753
732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

COVER SHEET FOR

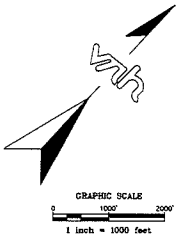
2018 EMERGENCY BEACH FILL PROJECT

HARVEST SAND FROM WILDWOOD BEACH FRONT AND TRANSFER TO NORTH WILDWOOD BEACH FRONT

CITY OF WILDWOOD

CITY OF NORTH WILDWOOD

CAPE MAY COUNTY, NEW JERSEY



INDEX OF SHEETS:

SHEET No. 1	COVER SHEET
SHEET No. 2	PLANS FOR SAND HARVEST AREA CITY OF WILDWOOD
SHEET No. 3	PLANS FOR SAND HARVEST AREA CITY OF WILDWOOD
SHEET No. 4	CROSS SECTIONS FOR SAND HARVEST AREA CRESSE AVENUE TO MID-BLOCK "E" (CITY OF WILDWOOD)
SHEET No. 5	CROSS SECTIONS FOR SAND HARVEST AREA RIO GRANDE AVENUE TO MID-BLOCK "J" (CITY OF WILDWOOD)
SHEET No. 6	CROSS SECTIONS FOR SAND HARVEST AREA MID-BLOCK "K" TO SPENCER AVENUE (CITY OF WILDWOOD)
SHEET No. 7	CROSS SECTIONS FOR SAND HARVEST AREA MID-BLOCK "P" TO CEDAR AVENUE (CITY OF WILDWOOD)
SHEET No. 8	CROSS SECTIONS FOR SAND HARVEST AREA MID-BLOCK "U" TO GLENWOOD AVENUE (CITY OF WILDWOOD)
SHEET No. 9	CROSS SECTIONS FOR SAND HARVEST AREA MID-BLOCK "Z" TO MID-BLOCK "BB" (CITY OF WILDWOOD)
SHEET No. 10	PLANS FOR BEACH FILL CITY OF NORTH WILDWOOD MUNICIPAL DIVISION LINE TO STATION 37+00
SHEET No. 11	PLANS FOR BEACH FILL CITY OF NORTH WILDWOOD STATION 37+00 TO STATION 8+71
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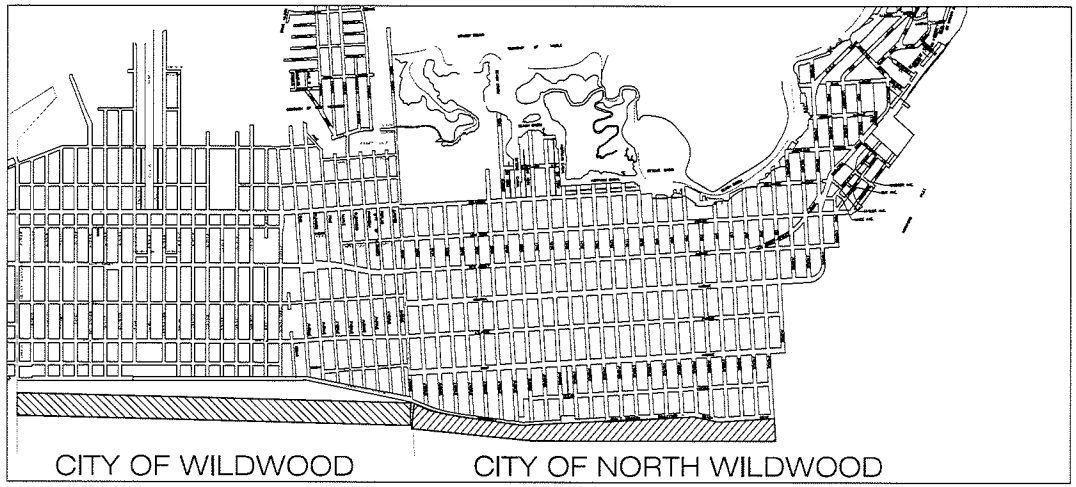
SHEET No. 13	CROSS SECTIONS FOR NORTH WILDWOOD BEACH STATION 24+25 TO STATION 39+10
SHEET No. 14	CROSS SECTIONS FOR NORTH WILDWOOD BEACH STATION 40+45 TO STATION 53+95
SHEET No. 15	CROSS SECTIONS FOR NORTH WILDWOOD BEACH STATION 59+35 TO STATION 66+10



CITY OF WILDWOOD

ERNIE TROIANO JR.	MAYOR
ANTHONY LEONETTI	COMMISSIONER
PETER BYRON	COMMISSIONER

CITY OF NORTH WILDWOOD

PATRICK ROSENELLO	MAYOR
SALVATORE ZAMPIRRI	PRESIDENT OF COUNCIL
EDWIN KOEHLER	COUNCILPERSON AT LARGE
KELLYANN TOLOMEO	COUNCILPERSON
MARGARET BISHOP	COUNCILPERSON
DAVID DEL CONTE	COUNCILPERSON
JAMES KANE	COUNCILPERSON
JOSEPH RULLO	COUNCILPERSON

Ralph Petrella, Jr. 4/05/18

RALPH PETRELLA, JR.

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08540 • 609-987-2323
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SAND HARVEST AREA
CITY OF WILDWOOD
CITY OF NORTH WILDWOOD

1

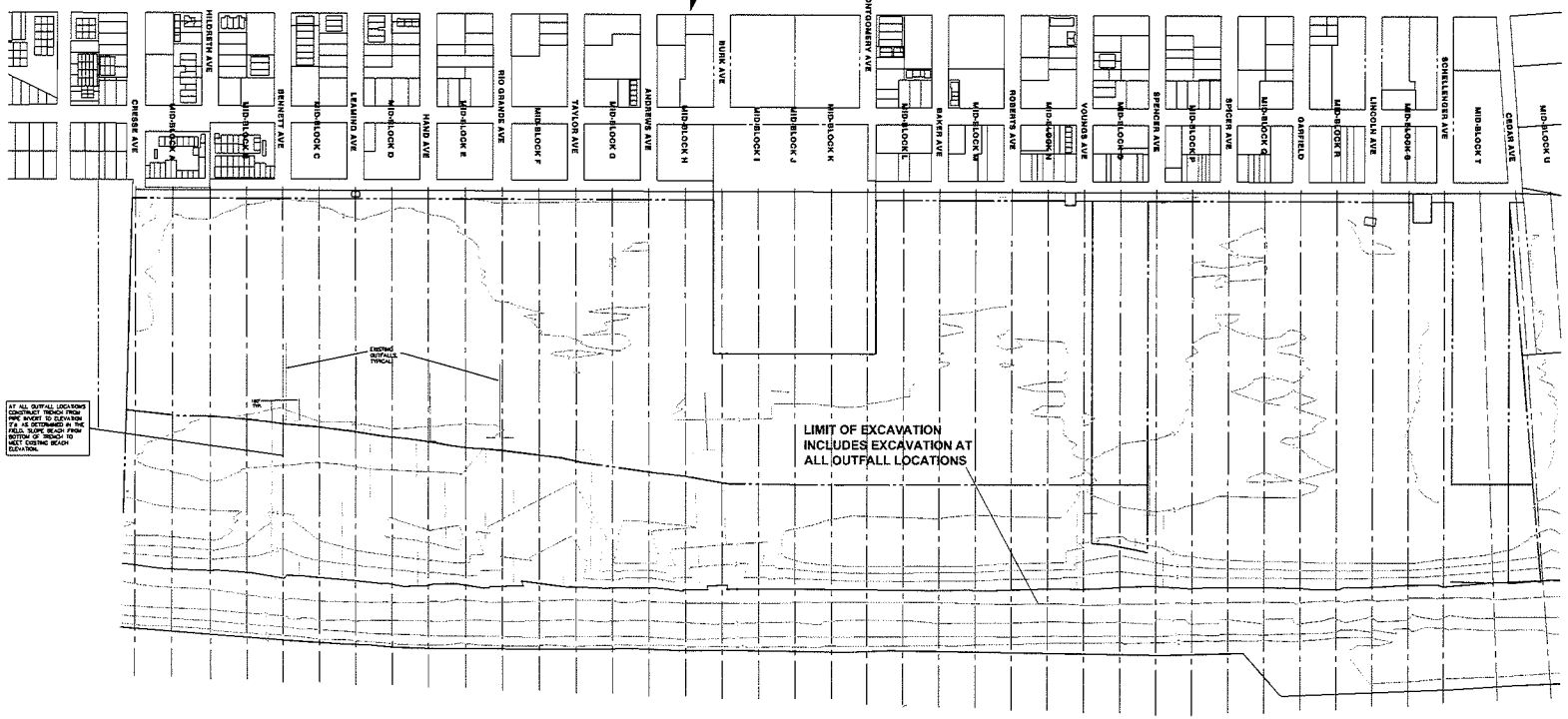
LOCAL RANGE OF TIDES

2.43 (SPRING HIGH WATER = SHW)
1.99 (MEAN HIGH WATER = MHW)
5.45
-2.86 (MEAN LOW WATER = MLW)
-3.02 (MEAN LOWER LOW WATER = MLLW)

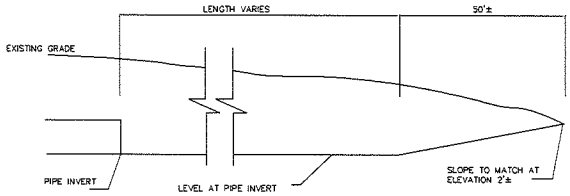
TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

NOTES
1. DATUM: NORTH AMERICAN VERTICAL DATUM ADJUSTMENT OF 1988 (NAD 1988) GEOID 12B
2. TOPOGRAPHIC INFORMATION TAKEN FROM FIELD SURVEY APRIL 2018
3. MEAN HIGH WATER ELEVATION= 1.99'
4. MEAN LOW WATER ELEVATION= -2.86'

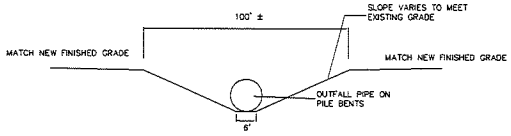
VERTICAL SCALE
0 10' 20'
1 inch = 10 feet



NOTE:
THE CONTRACTOR MUST EXCAVATE AT THE OUTFALL PIPES AS FREQUENTLY AS NECESSARY TO INSURE POSITIVE DRAINAGE DURING THE HARVEST PERIOD OF THE CONTRACT. THE CONTRACTOR MAY RE-HARVEST THE SAME AREA(S) MULTIPLE TIMES ONCE THE EXCAVATED AREA RESTORES TO ORIGINAL GRADE BY NATURAL TIDAL SLOPING/GRADING.



TYPICAL PROFILE AT OUTFALLS



TYPICAL SECTION AT OUTFALLS
PROTECT OUTFALLS, TYP.

DATE	DFT.BY	CKD.BY

4/05/19
DATE OF SEAL

RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. No. GE 23226

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
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211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2320
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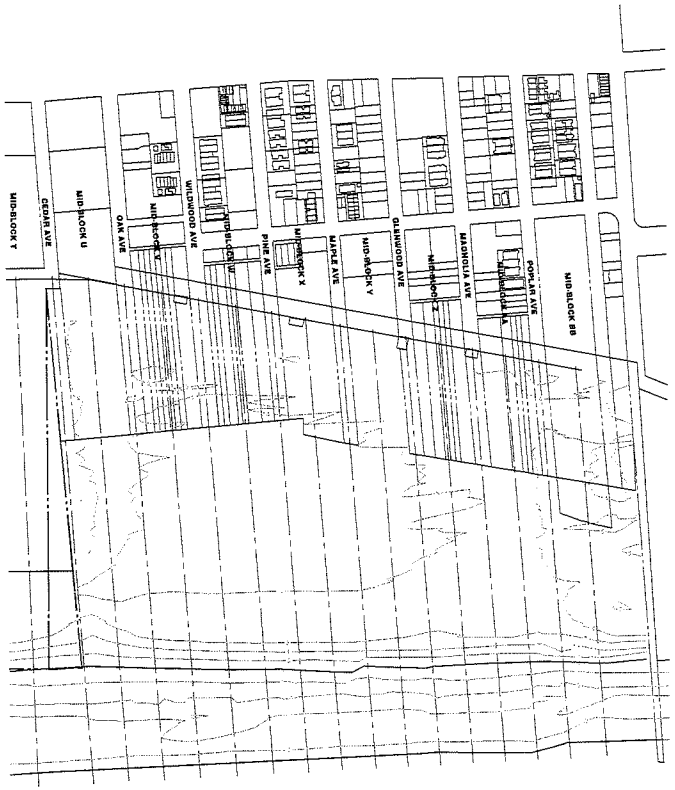
PLAN FOR
SAND HARVEST AREA
CITY OF WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	FIELD BK	ORDER No.	FILE No.	SHEET No.
BMP		43511-400-21		2
CHECKED BY / DATE	PAGE			

VERTICAL SCALE

0 10' 20'

1 inch = 10 feet



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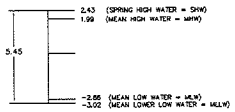

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4/05/18
DATE OF SIGN.

RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GE 23226

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PLAN OF

SAND HARVEST AREA
CITY OF WILDWOOD

CAPE MAY COUNTY, N.J.

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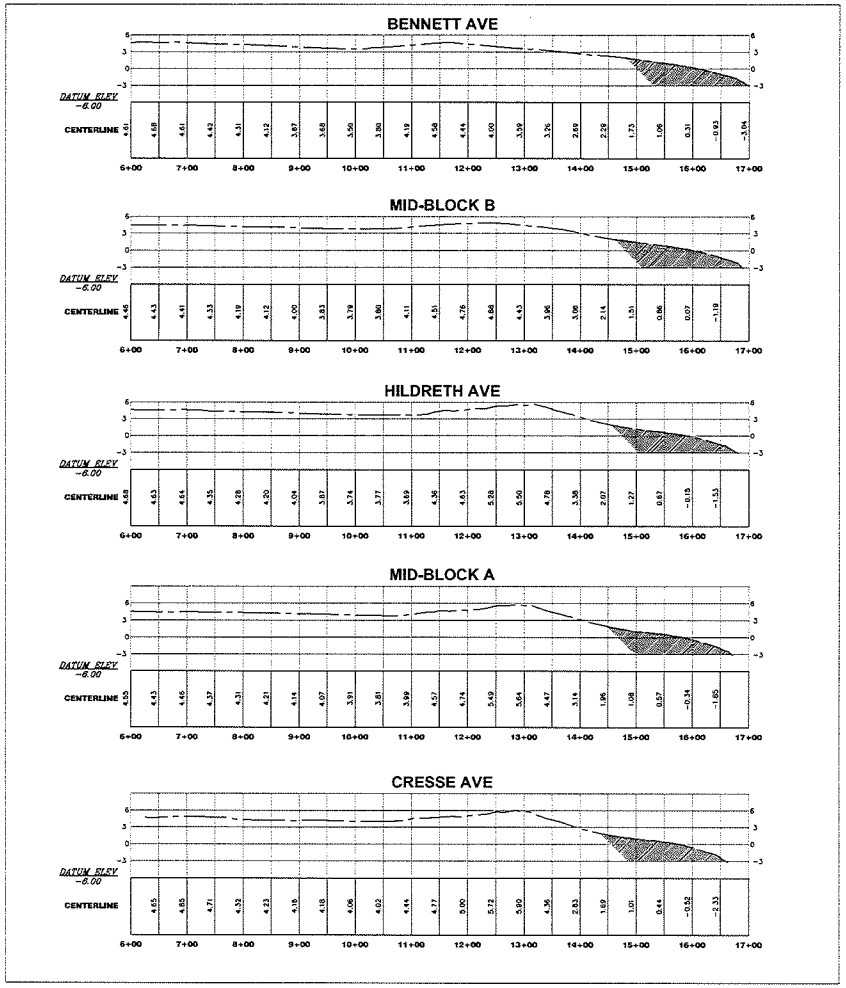
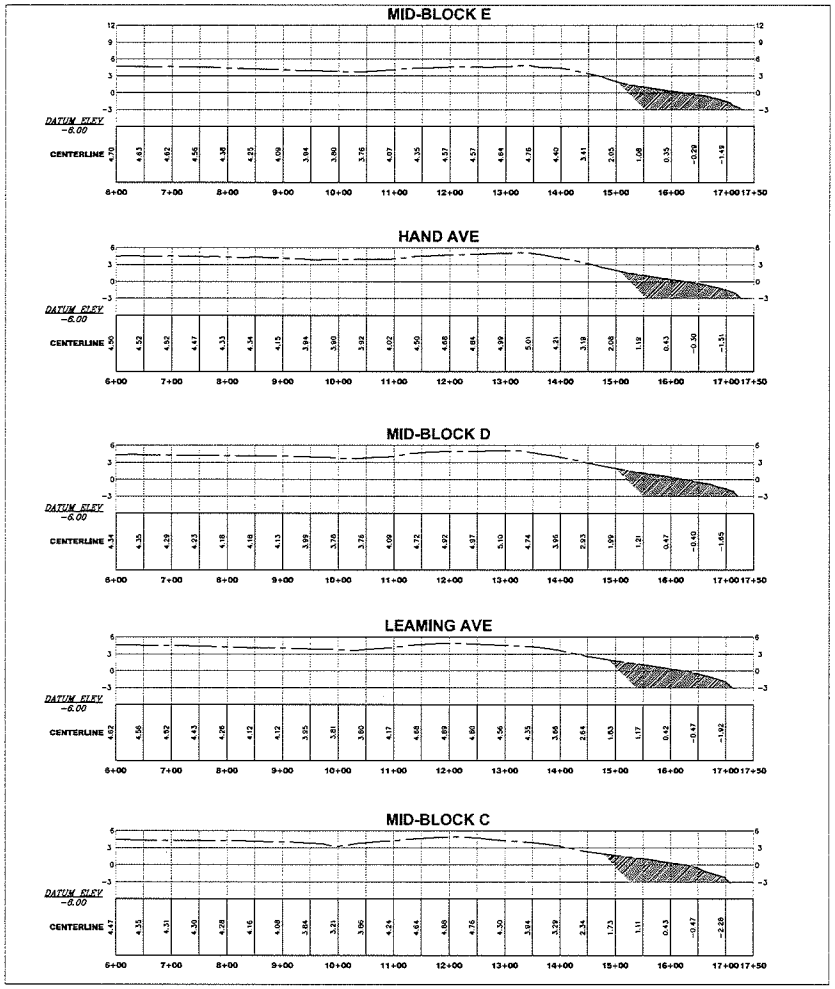
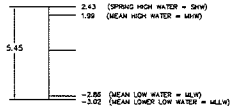
CHECKED BY / DATE	PAGE	43611-400-21		3





LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

NOTE:
THE CONTRACTOR MUST EXCAVATE AT THE OUTFALL PIPES AS FREQUENTLY AS NECESSARY TO INSURE POSITIVE DRAINAGE DURING THE HARVEST PERIOD OF THE CONTRACT. THE CONTRACTOR MAY RE-HARVEST THE SAME AREA(S) MULTIPLE TIMES ONCE THE EXCAVATED AREA RESTORES TO ORIGINAL GRADE BY NATURAL TIDAL SLOPING/GRADING.

NOTES

1. DATUM: NORTH AMERICAN VERTICAL DATUM ADJUSTMENT OF 1988 (NAD 1988) GEOID 12B
2. TOPOGRAPHIC INFORMATION TAKEN FROM FIELD SURVEY APRIL 2018
3. MEAN HIGH WATER ELEVATION= 1.99'
4. MEAN LOW WATER ELEVATION= -2.86'

HORIZONTAL SCALE
0 100' 200'
1 inch = 100 feet
VERTICAL SCALE
0 10' 20'
1 inch = 10 feet

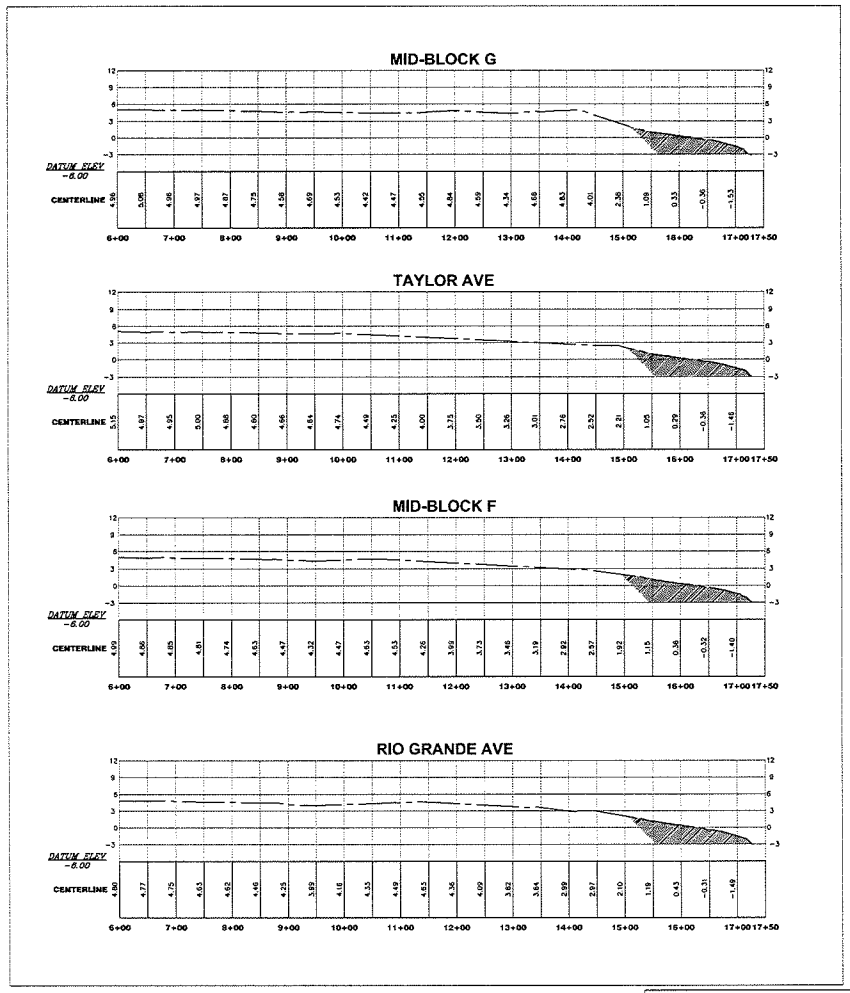
	DATE	DFT.BY	CKD.BY

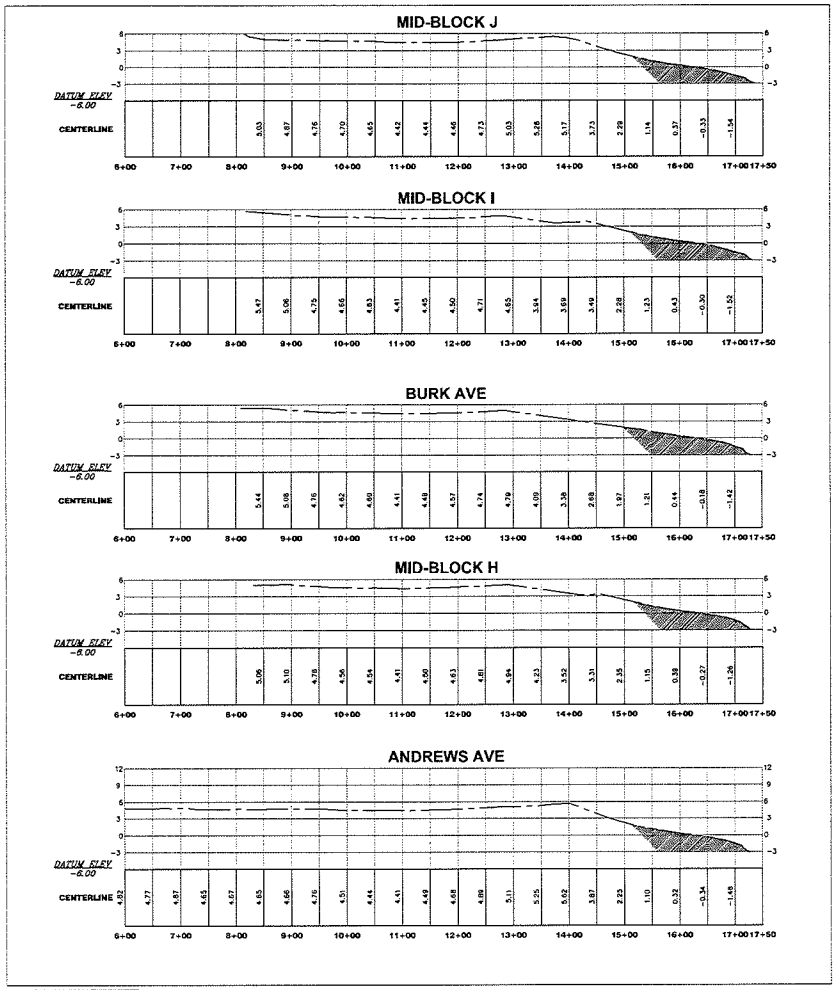
RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GE 33326
04-05-18
DATE OF SEAL

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08540 ☎ 609-987-0303
211 Bayberry Drive • Cape May Court House, NJ 08210 ☎ 609-465-2630
www.vannoteharvey.com Certificate of Authorization No. 24GA28011300
van note-harvey associates
- Since 1964 -

CROSS SECTIONS FOR
SAND HARVEST AREA
FROM CRESSE AVENUE TO MID-BLOCK E
CITY WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
CHECKED BY / DATE		PAGE	43611-400-21		4





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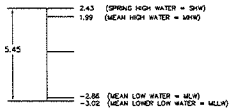
LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID:8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

NOTES

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DATE	DFT.BY	CKD.BY

04/05/18
DATE OF SEAL

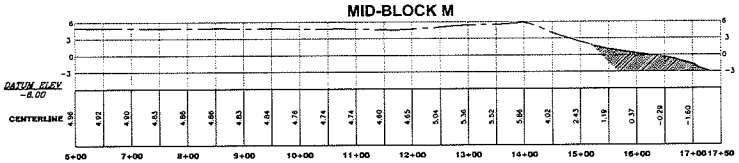
RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GR 23326

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
101 College Road East • Princeton, NJ 08540 • 609-951-2293
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-5830
www.vannoteharvey.com Certificate of Authorization No. 24GA28271200

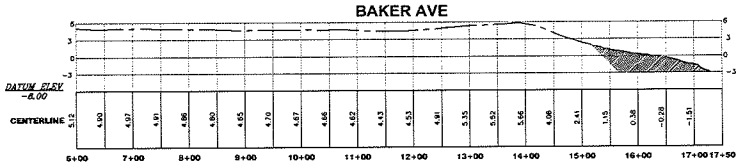
CROSS SECTIONS FOR
SAND HARVEST AREA
FROM RIO GRANDE AVENUE TO MID-BLOCK J
CITY OF WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	BMP	FIELD BK / PAGE	ORDER No. 43611-400-21	FILE No.	SHEET No. 5
CHECKED BY / DATE					

MID-BLOCK M



BAKER AVE



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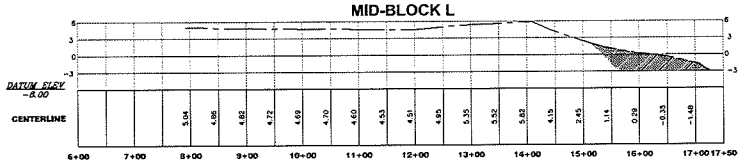
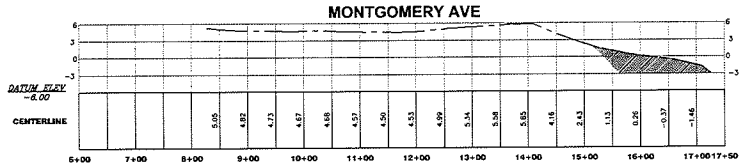


MONTGOMERY AVE



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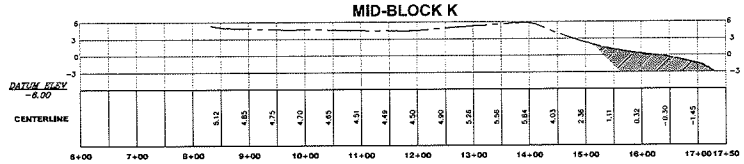
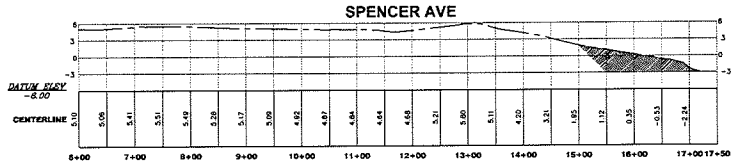


SPENCER AVE



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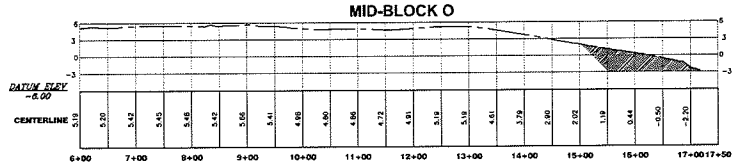

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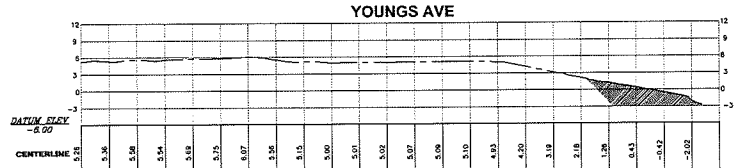
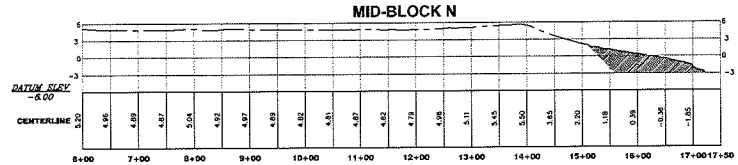
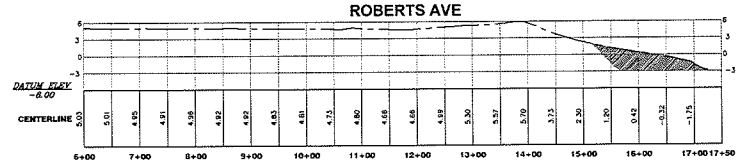


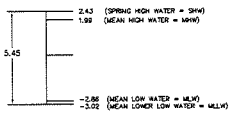
MID-BLOCK N



ROBERTS AVE



LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

NOTE:
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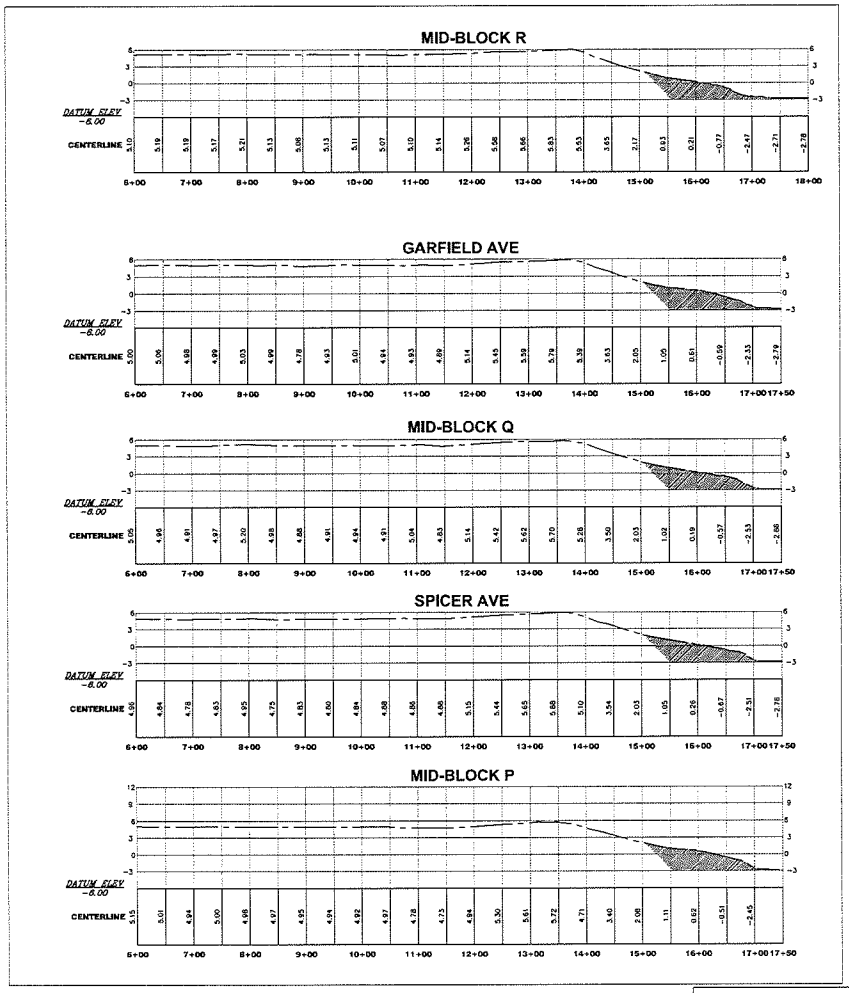
	DATE	DFT.BY	CKD.BY

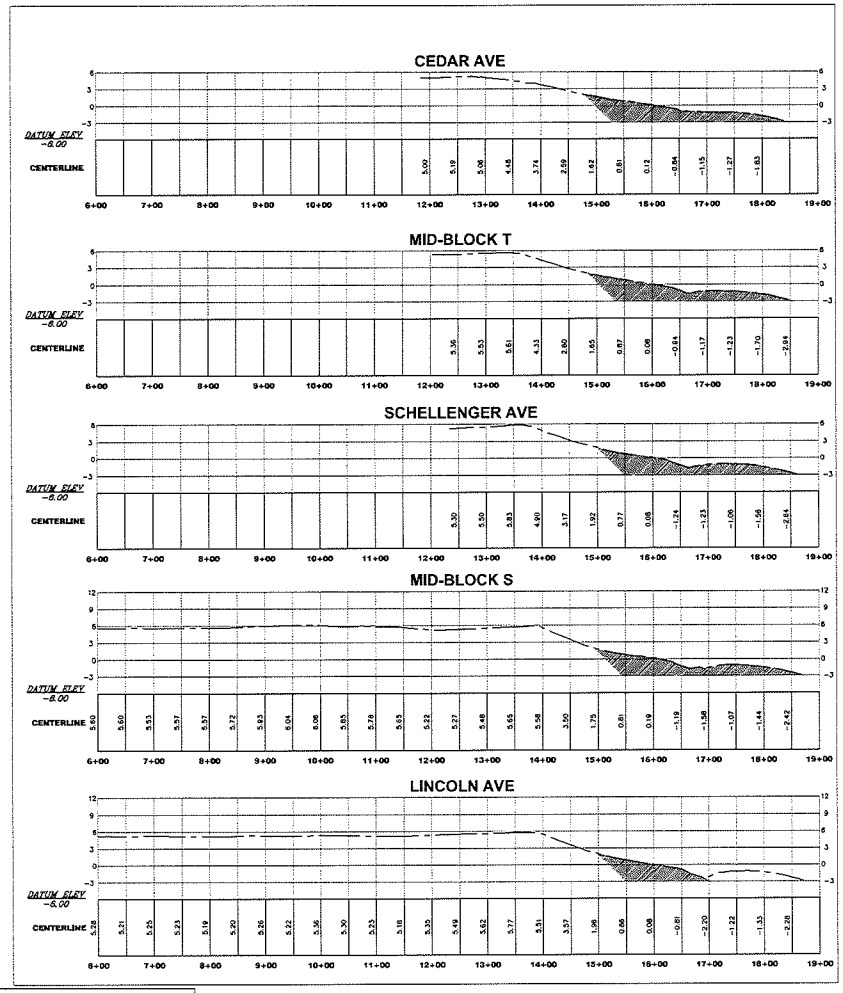
Ralph Petrella, Jr. 04/05/18
DATE OF SIGN.
RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GE 23226

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08540 • 609-987-2323
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization No. 24GA28277300

CROSS SECTIONS FOR
SAND HARVEST AREA
FROM MID-BLOCK K TO SPENCER AVENUE
CITY OF WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	FIELD BK	ORDER No.	FILE No.	SHEET No.
BMP		43611-400-21		6
CHECKED BY / DATE	PAGE			





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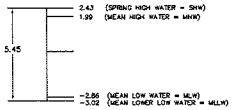
LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 – DECEMBER 2001

NOTES

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1 inch = 10 feet

	DATE	DFT.BY	CKD.BY

04/05/18
DATE OF SEAL

RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GE 23226

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
101 College Road East • Princeton, NJ 08540 • 609-987-2323
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2622
www.vannoteharvey.com Certificate of Authorization No. 24GA28071300

CROSS SECTIONS FOR
SAND HARVEST AREA
FROM MID-BLOCK P TO CEDAR AVE.
CITY OF WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
DATE		43611-400-21		7
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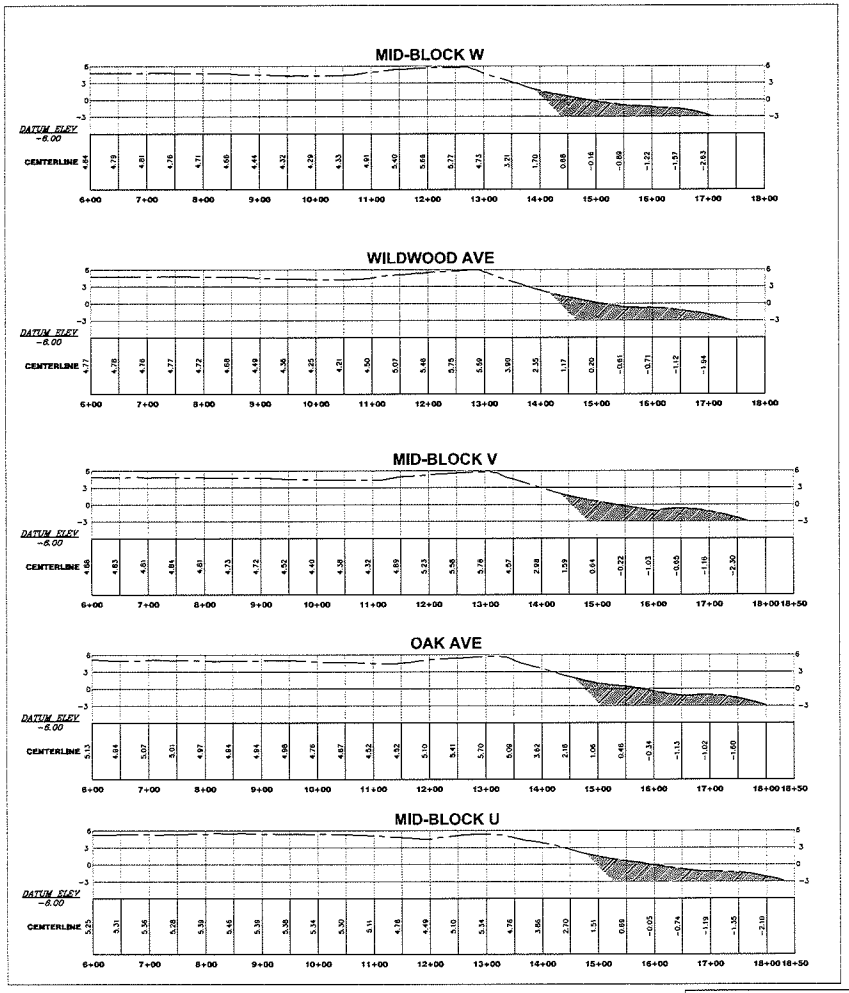
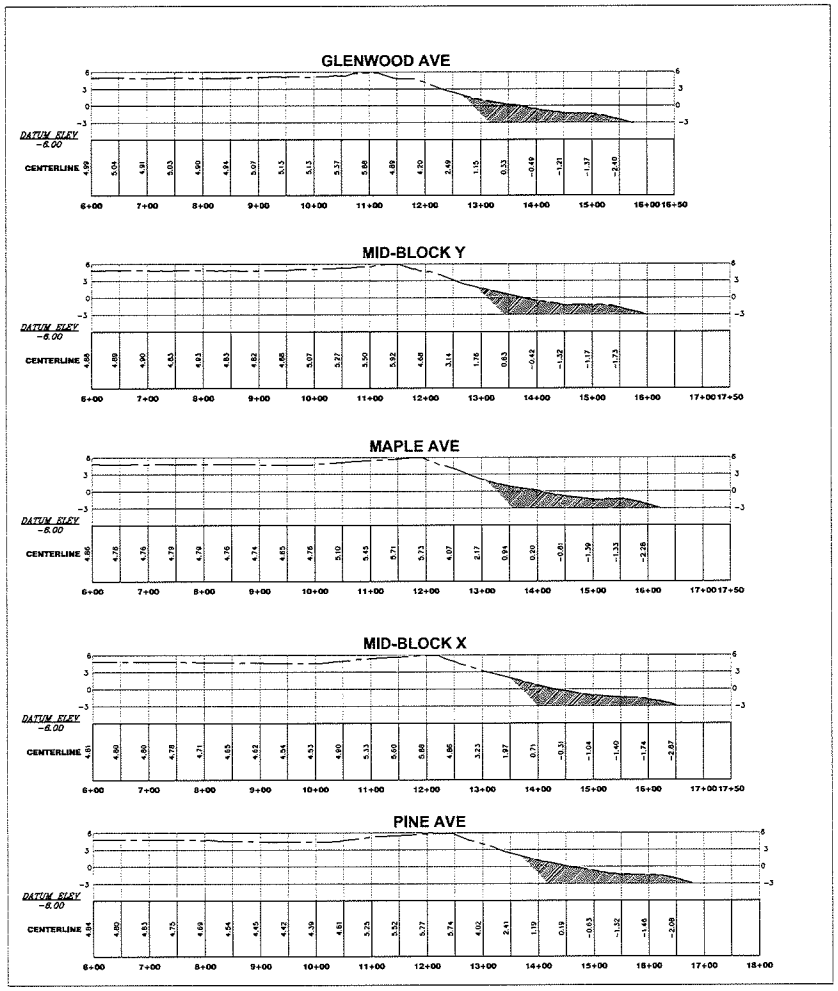
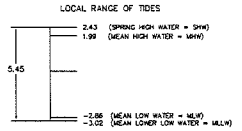
DATE				





LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION 0485536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 – DECEMBER 2001

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HORIZONTAL SCALE
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	DATE	DFT.BY	CKD.BY

RALPH PETRELLA, JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GS 33226
04/05/18
DATE OF SIGN.

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08540 • 609-987-2333
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2332
www.vannoteharvey.com Certificate of Authorization No. PGA24277000

CROSS SECTIONS FOR
SAND HARVEST AREA
FROM MID-BLOCK U TO GLENWOOD AVE.
CITY OF WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	FIELD BK	ORDER No.	FILE No.	SHEET No.
BMP		43611-400-21		8
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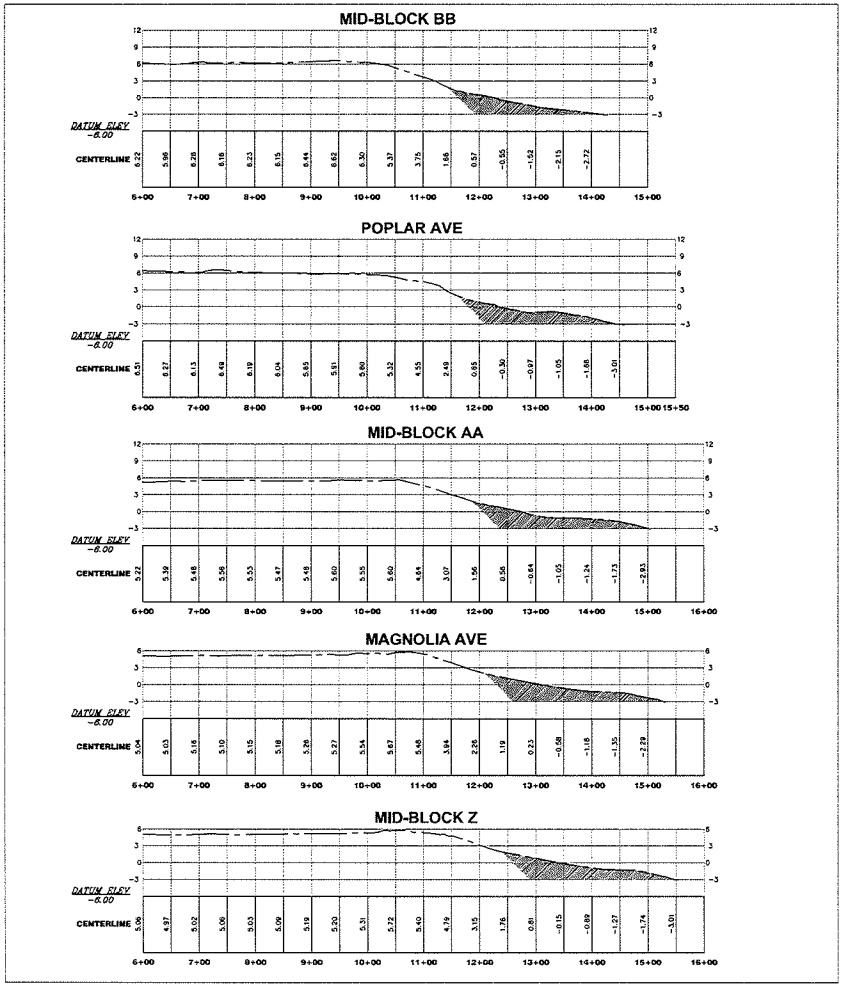

EXCAVATION VOLUMES

Station	Area	Distance	Volume
Grant	585.5		
		132	76540
Mid-Block a	572.4		
		134	77000
Filbert	567.3		
		130	76247
Mid-Block d	616.5		
		130	77753
Bennett	579.7		
		130	76826
Mid-Block C	625		
		130	80540
Lennox	625.3		
		130	84291
Mid-Block D	570.5		
		130	75678
Hand	563		
		131.5	73772
Mid-Block E	578		
		131.5	75954
Rio Grande	566.4		
		131.5	74552
Mid Block F	627.7		
		131.5	79640
Taylor	541.1		
		130	68681
Mid Block G	534.3		
		130	67539
Andrews	534.7		
		130	68088
Mid Block H	522.8		
		130	73157
Park	605.7		
		130	74159
Mid Block I	545.2		
		130	68592
Mid Block J	521.6		
		130	67542
Mid Block K	537.5		
		130	66281
Montgomery	522.1		
		130	69657
Mid Block L	498.2		
		130	64828
Baker	494.6		
		130	64545
Mid Block M	486.4		
		130	65425
Roberts	530.1		
		130	62505
Mid Block N	516		
		130	67153
Stokes	527.1		
		130	68791
Mid Block o	548.3		
		130	70730
Spencer	542.7		
		130	69895
Mid Block P	537.6		
		130	67483
Spicer	532.9		
		130	69728
Mid Block Q	508.5		
		130	67236
Garfield	513.3		
		130	66657
Mid Block R	496.1		
		130	66378
Lincoln	465.1		
		130	78652
Mid Block S	748		
		160	96000
Schenburger	717.4		
		162	116979
Mid Block T	754.8		
		162	126063
Cedar	791.2		
		127	98342
Mid Block U	754.9		
		127	95488
Oak	745.6		
		130	95561
Mid Block V	726.1		
		130	92416
Wildwood	680.3		
		125	85400
Mid Block W	657.3		
		125	79419
Pine	633.4		
		125	70920
Mid Block X	568.9		
		130	72540
Maple	635.5		
		125	70660
Mid Block y	565.2		
		215	70392
Glenwood	521		
		150	79285
Mid Block Z	566.4		
		150	75040
Magnolia	640.4		
		216	74164
Mid Block Aa	612.4		
		157	63080
Poplar	534.6		
		150	64454
Mid Block BB	457.3		
Total Cubic Yards Excavation			948257

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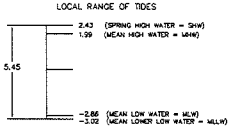

TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION #8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

NOTES

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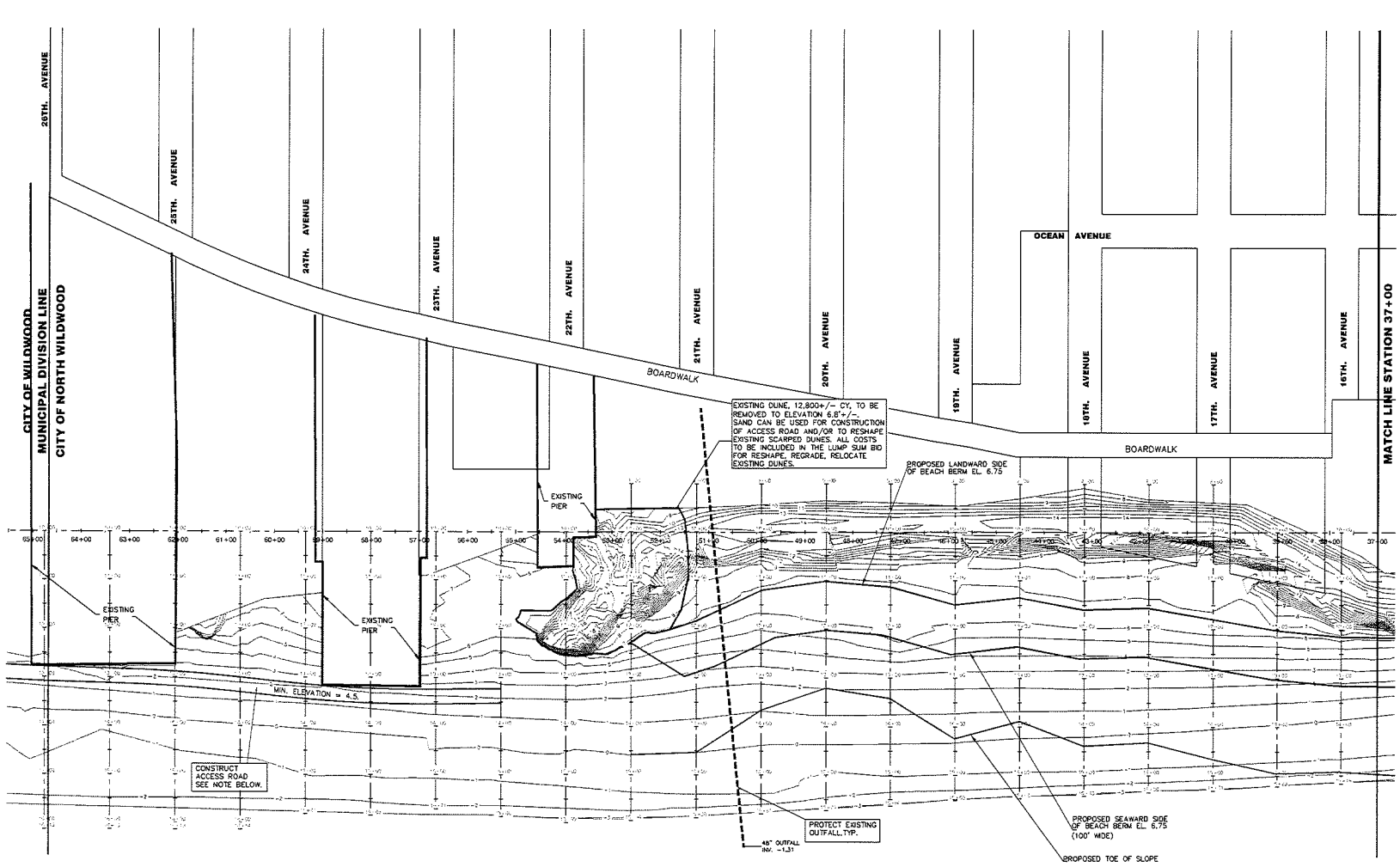
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization No. 24GA28011300

CROSS SECTIONS FOR
SAND HARVEST AREA
FROM MID BLOCK Z TO MID-BLOCK BB
CITY OF WILDWOOD
CAPE MAY COUNTY, N.J.

DRAWN BY / DATE	FIELD BK / PAGE	ORDER No.	FILE No.	SHEET No.
BMP		43511-400-21		9

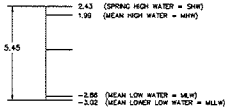
CHECKED BY / DATE



NOTE 1:
IT IS THE INTENT OF PAY ITEM RESHAPE, REGRADE, RELOCATE EXISTING DUNES TO ELIMINATE THE SCARPED/ CLIFF CONDITION OF THE ERODED DUNE SYSTEM FOR THE LENGTH OF NORTH WILDWOOD'S BEACH FRONT BETWEEN 25TH AND 5TH AVENUES. THE OCEANWARD SIDE OF THE DUNES SHALL BE RESHAPED AND REGRADED TO PROVIDE A SAFE STRAIGHT SLOPE DOWN TO THE BEACH TOP BERM AT AN APPROXIMATE 5V:1H SLOPE.

NOTE 2:
VEHICULAR ACCESS IS SIGNIFICANTLY IMPEDED AND/OR PREVENTED DURING MOST TIDAL CONDITIONS BETWEEN 25TH AND 23RD AVE (IN FRONT OF PIERS). THEREFORE, IN ORDER TO EFFECTIVELY COMPLETE THIS CONTRACT, THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY TRUCK AND EQUIPMENT ACCESS ROAD IN FRONT OF THE PIERS. THE ACCESS ROAD MAY BE CONSTRUCTED WITH SAND HARVESTED FROM THE BEACH AND/OR UTILIZE THE SAND FROM THE DUNE BEING ELIMINATED IN FRONT OF 22ND AVE. PIER (STA. 55+25+/- TO STA. 52+75+/-). PAYMENT WILL NOT BE MADE UNDER THE SAND HARVEST NOR BEACH FILL PAY ITEMS FOR ANY SAND USED TO CONSTRUCT AND MAINTAIN THE ACCESS ROAD. THE CONTRACTOR MAY INSTALL SHEATHING IN EFFORT TO REDUCE THE IMPACTS OF TIDAL EROSION ALONG THE ACCESS ROAD, BUT THE SHEATHING MUST BE REMOVED AT THE CONCLUSION OF THE PROJECT. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TEMPORARY ACCESS ROAD, MAINTENANCE OF THE SAME FOR THE DURATION OF THE CONTRACT AND RESTORATION OF THE AREA AT THE CONCLUSION OF THE CONTRACT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ACCESS ROAD.

LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8535110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

REV.	DESCRIPTION	DATE	DFT. BY	CKD. BY

4/5/18
DATE OF SIGN.

RALPH PETRELLA JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GS 23226

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
103 College Road East • Princeton, NJ 08542 • 609-497-2222
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2650
www.vannoteharvey.com Certificate of Authorization No. 24GA28278300

PLANS FOR BEACH FILL:

NORTH WILDWOOD BEACH

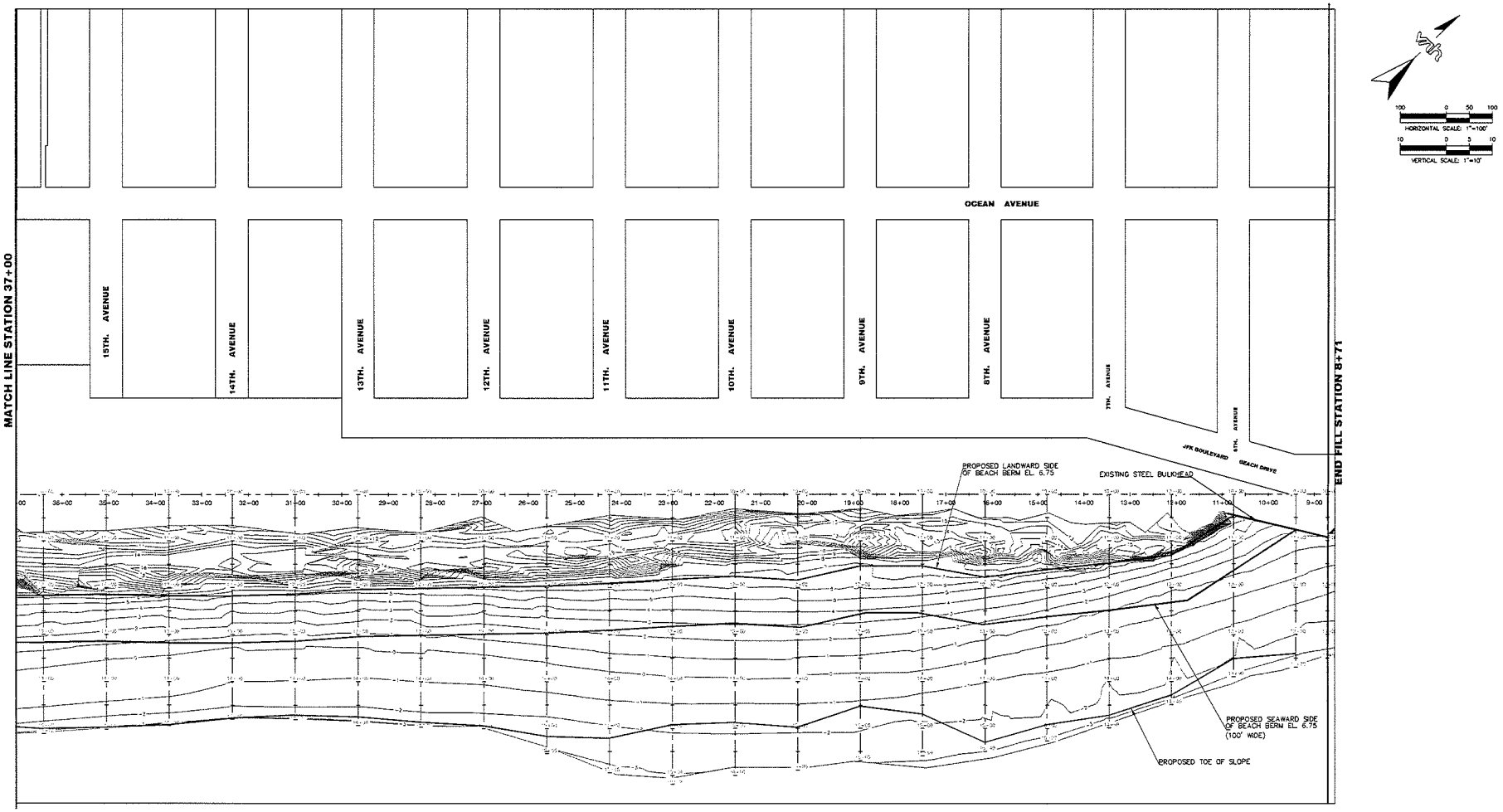
MUNICIPAL DIVISION LINE TO STA. 37+00

CITY OF NORTH WILDWOOD

CAPE MAY COUNTY, N.J.

DRAWN BY	SMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
CHECKED BY	RP	PAGE	43611-400-21		10

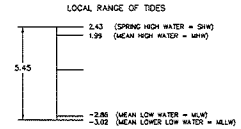
M:\43000PROJECTS\43611 BEACH TOPO 3-27-18\43611 NORTH WILDWOOD BEACH TOPO 4-2-18.DWG



NOTE 1:
IT IS THE INTENT OF PAY ITEM RESHAPE, REGRADE, RELOCATE EXISTING DUNES TO ELIMINATE THE SCARPED/ CLIFF CONDITION OF THE ERODED DUNE SYSTEM FOR THE LENGTH OF NORTH WILDWOOD'S BEACH FRONT BETWEEN 25TH AND 5TH AVENUES. THE OCEANWARD SIDE OF THE DUNES SHALL BE RESHAPED AND REGRADED TO PROVIDE A SAFE STRAIGHT SLOPE DOWN TO THE BEACH TOP BERM AT AN APPROXIMATE 5V:1H SLOPE.

NOTE 2:
BEACH FILL WORK BETWEEN 5TH AND 8TH AVENUES (STA. 17+50+/- TO STA. 8+70+/-) MUST BE COMPLETED BETWEEN MAY 14, 2018 AND MAY 24, 2018.

LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY, TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY

4/5/18
DATE OF SIGN.

RALPH PETRELLA JR.
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103 College Road East • Princeton, NJ 08540 • 609-987-2323
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-405-2600
www.vannoteharvey.com Certificate of Authorization
No. 24GA28271300

PLANS FOR BEACH FILL:

NORTH WILDWOOD BEACH

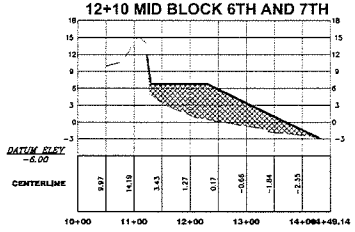
STA. 37+00 TO STA. 8+71

CITY OF NORTH WILDWOOD

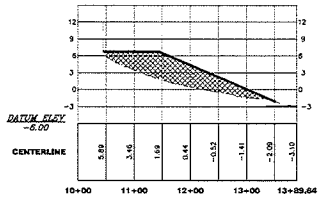
CAPE MAY COUNTY, N.J.

DRAWN BY	BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
CHECKED BY	RP	PAGE	43611-400-21		11

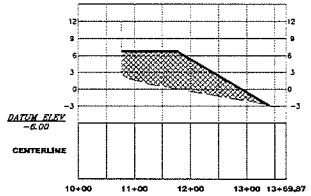
12+10 MID BLOCK 6TH AND 7TH



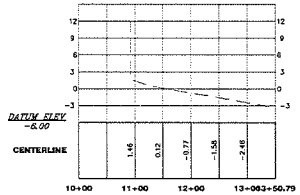
10+75 CL. 6TH AVE



9+40 MID BLOCK 5TH AND 6TH



8+71 END BULKHEAD ANGLE POINT



NOTE 1:
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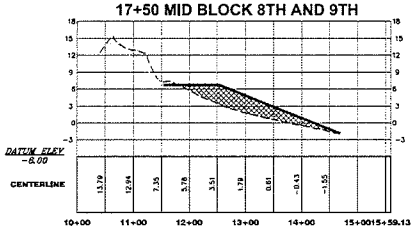
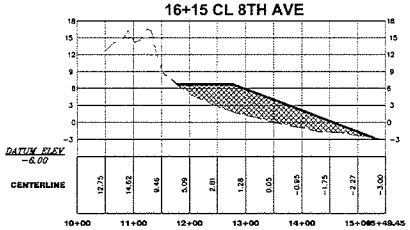
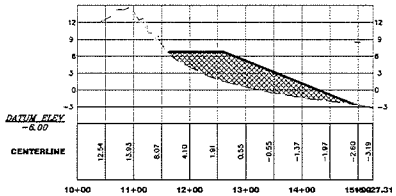
17+50 MID BLOCK 8TH AND 9TH



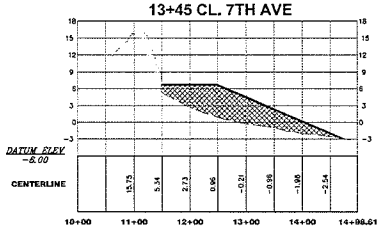
16+15 CL 8TH AVE



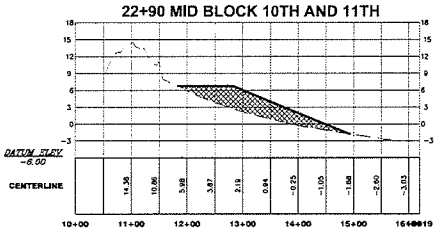
14+80 MID BLOCK 7TH AND 8TH



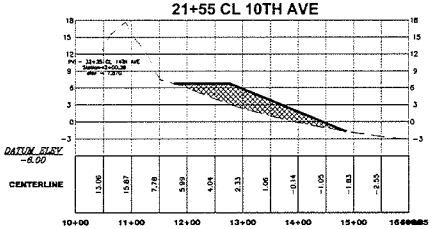
13+45 CL. 7TH AVE



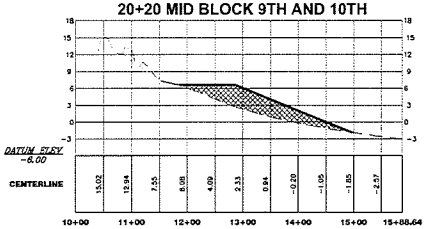
22+90 MID BLOCK 10TH AND 11TH



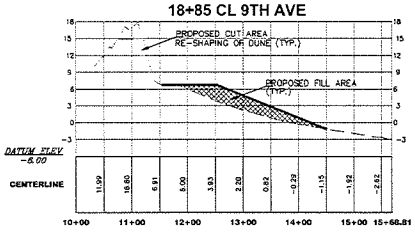
21+55 CL 10TH AVE



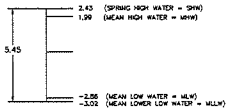
20+20 MID BLOCK 9TH AND 10TH



18+85 CL 9TH AVE



LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION #8683410 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 – DECEMBER 2001

100 0 50 100
HORIZONTAL SCALE: 1"=100'
10 0 5 10
VERTICAL SCALE: 1"=10'

DFT.BY CKD.BY

4/5/18
DATE OF SIGN.

RALPH PETRELLA JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GE 23226

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193 College Road East • Princeton, NJ 08540 • 609-987-2323
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
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CROSS-SECTIONS FOR:

NORTH WILDWOOD BEACH

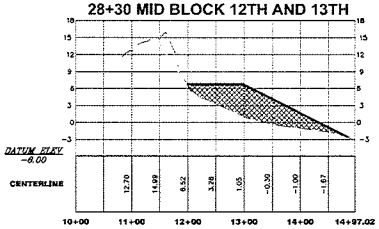
STA. 8+71 TO STA. 22+90

CITY OF NORTH WILDWOOD

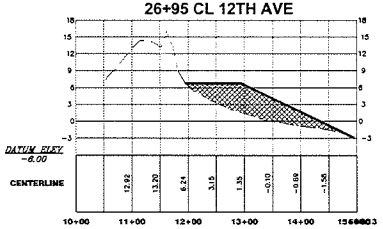
CAPE MAY COUNTY, N.J.

DRAWN BY BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
CHECKED BY RP	PAGE	43611-400-21		12

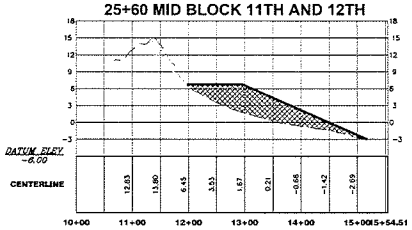
28+30 MID BLOCK 12TH AND 13TH



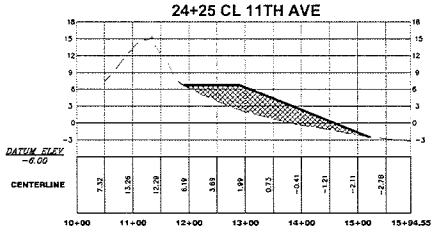
26+95 CL 12TH AVE



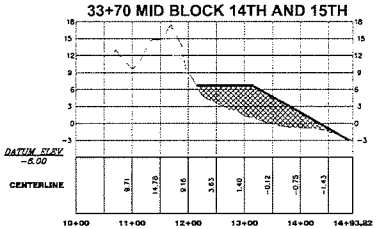
25+60 MID BLOCK 11TH AND 12TH



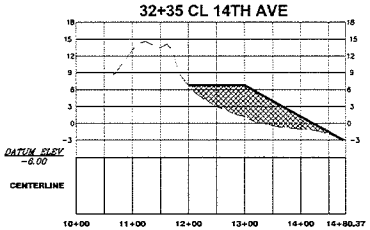
24+25 CL 11TH AVE



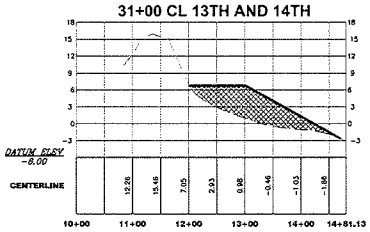
33+70 MID BLOCK 14TH AND 15TH



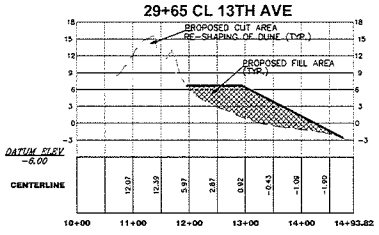
32+35 CL 14TH AVE



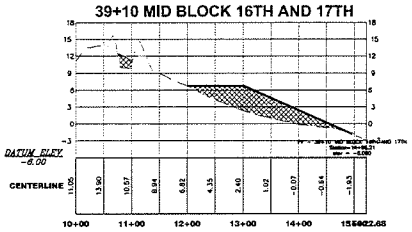
31+00 CL 13TH AND 14TH



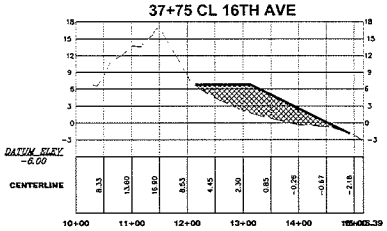
29+65 CL 13TH AVE



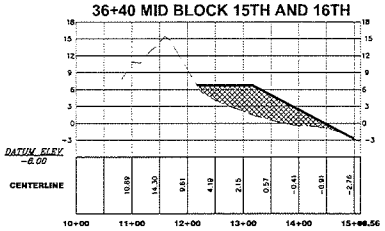
39+10 MID BLOCK 16TH AND 17TH



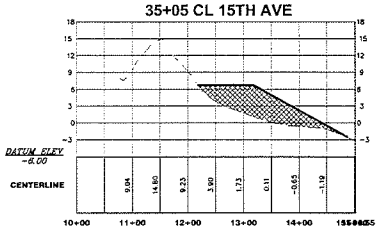
37+75 CL 16TH AVE



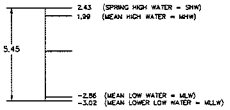
36+40 MID BLOCK 15TH AND 16TH



35+05 CL 15TH AVE



LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 - DECEMBER 2001

NOTE 1:
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100 0 50 100
HORIZONTAL SCALE: 1"=100'
10 0 5 10
VERTICAL SCALE: 1"=10'

DFT.BY	CKD.BY

4/5/18
DATE OF SIGN.

RALPH PETRELLA JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GS 23326

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consulting engineers, planners & land surveyors
100 College Road East • Princeton, NJ 08540 • 609-497-2321
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
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CROSS-SECTIONS FOR:

NORTH WILDWOOD BEACH

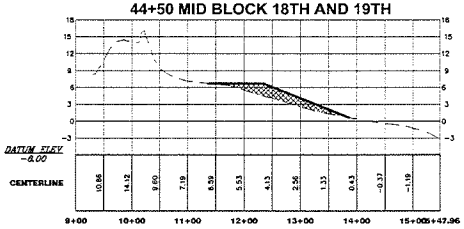
STA. 24+25 TO STA. 39+10

CITY OF NORTH WILDWOOD

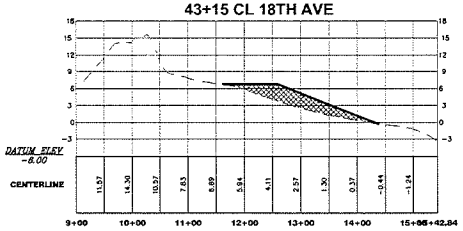
CAPE MAY COUNTY, N.J.

DRAWN BY	BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
CHECKED BY	RP	PAGE	43611-400-21		13

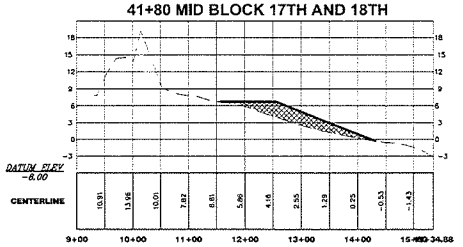
44+50 MID BLOCK 18TH AND 19TH



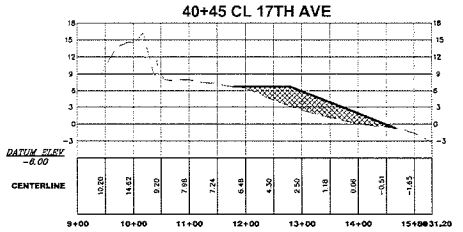
43+15 CL 18TH AVE



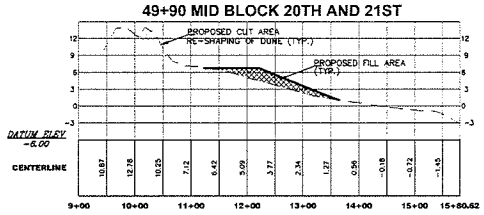
41+80 MID BLOCK 17TH AND 18TH



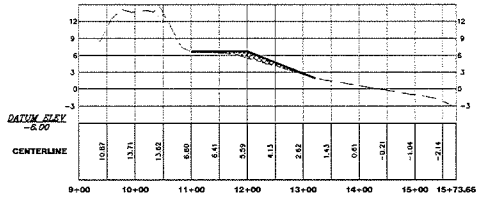
40+45 CL 17TH AVE



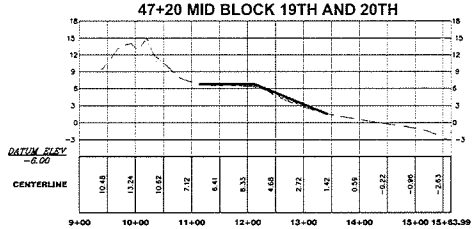
49+90 MID BLOCK 20TH AND 21ST



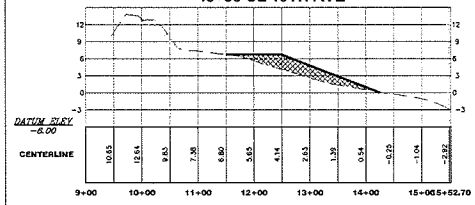
48+55 CL 20TH AVE



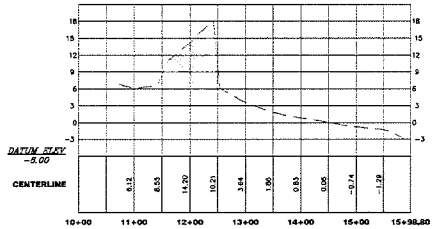
47+20 MID BLOCK 19TH AND 20TH



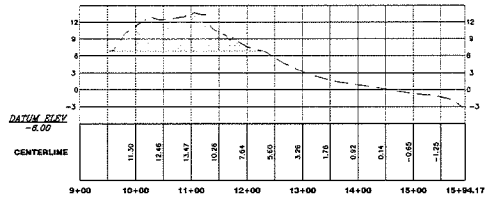
45+85 CL 19TH AVE



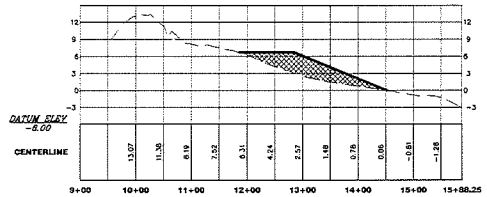
53+95 CL 22ND AVE



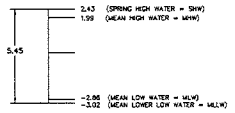
52+60 MID BLOCK 21ST AND 22ND



51+25 CL 21ST AVE



LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION 8535261/8 CAPE MAY NEW JERSEY, TIDAL EPOCH DATED JANUARY 1983 – DECEMBER 2001

NOTE 1:
IT IS THE INTENT OF PAY ITEM RESHAPE, REGRADE, RELOCATE EXISTING DUNES TO ELIMINATE THE SCARPED/ CLIFF CONDITION OF THE ERODED DUNE SYSTEM FOR THE LENGTH OF NORTH WILDWOOD'S BEACH FRONT BETWEEN 25TH AND 5TH AVENUES. THE OCEANWARD SIDE OF THE DUNES SHALL BE RESHAPED AND REGRADED TO PROVIDE A SAFE STRAIGHT SLOPE DOWN TO THE BEACH TOP BERM AT AN APPROXIMATE 5V:1H SLOPE.

HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=10'

DFT.BY CKD.BY

4/5/18
DATE OF SEAL

RALPH PETRELLA JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GS 23226

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
102 College Road East • Princeton, NJ 08540 • 609-497-2222
311 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization No. 24GA28015300

CROSS-SECTIONS FOR:

NORTH WILDWOOD BEACH

STA. 40+45 TO STA. 53+95

CITY OF NORTH WILDWOOD

CAPE MAY COUNTY, N.J.

DRAWN BY	BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
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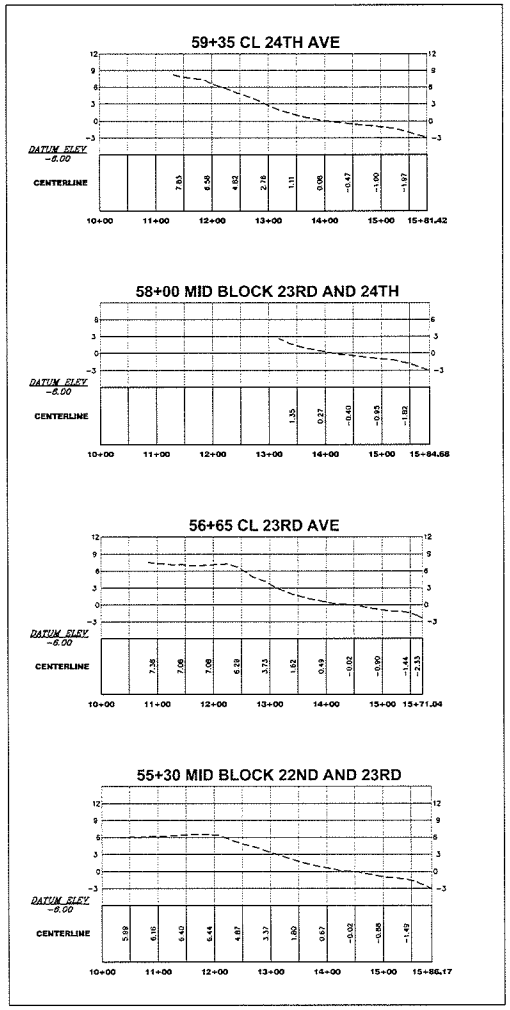

NOTE 1:
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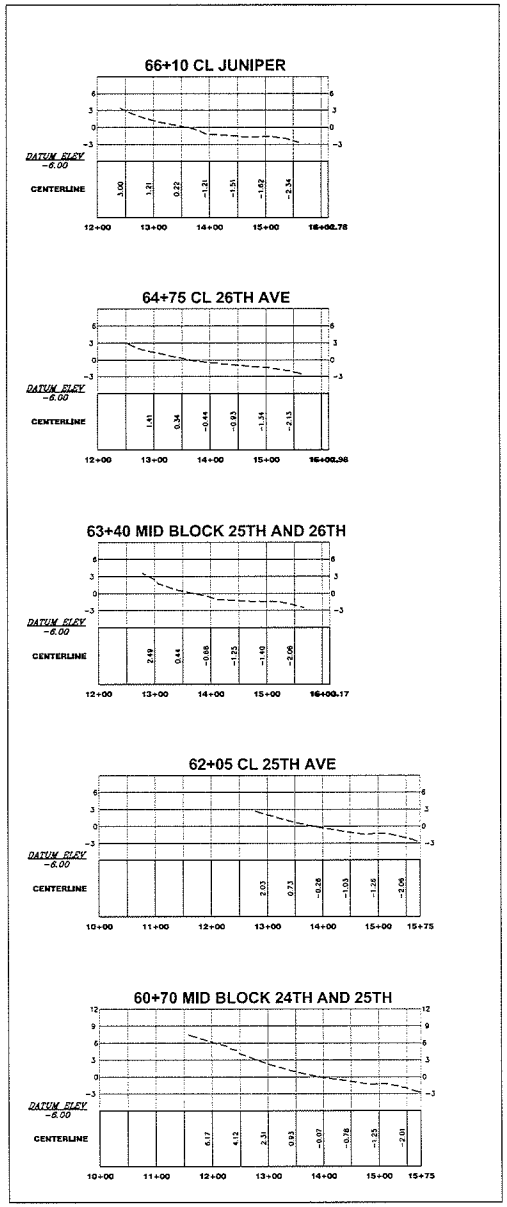
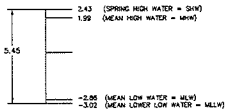


FILL VOLUMES

Station	Area	Distance	Volume
8+75	0		
		1.95	24972
9+40	1110.7		
		1.95	132442
10+75	851.6		
		1.95	132293
12+10	1108.5		
		1.95	147632
13+45	1248.4		
		1.95	137795
14+80	952		
		1.95	134035
16+15	953.7		
		1.95	104942
17+50	541		
		1.95	94921
18+85	635.6		
		1.95	77552
20+20	673.2		
		1.95	92726
21+55	628.2		
		1.95	98896
22+90	685.2		
		1.95	102748
24+25	812.1		
		1.95	123771
25+60	673.4		
		1.95	115655
26+95	560		
		1.95	115749
28+30	874.8		
		1.95	117619
29+65	667.7		
		1.95	116471
31+00	857.6		
		1.95	114866
32+35	632.3		
		1.95	112357
33+70	647		
		1.95	123362
35+05	817.8		
		1.95	120935
36+40	767.9		
		1.95	101459
37+75	735.2		
		1.95	96274
39+10	735.6		
		1.95	69842
40+45	567.1		
		1.95	64470
41+80	416.6		
		1.95	58155
43+15	445		
		1.95	45981
44+50	292.5		
		1.95	46027
45+85	355.3		
		1.95	42387
47+20	88.5		
		1.95	18092
48+55	109.3		
		1.95	26123
49+90	277.7		
		1.95	54779
51+25	515.7		
		1.95	76025
52+60	0		
		1.95	0
53+95	0		
		1.95	0
55+30	0		
		1.95	0
56+65	0		
		1.95	0
58+00	0		
		1.95	0
59+35	0		
		1.95	0
60+70	0		
		1.95	0
62+05	0		
		1.95	0
63+40	0		
		1.95	0
64+75	0		
		1.95	0
66+10	0		
Total Cubic Yards Fill			1329535

LOCAL RANGE OF TIDES



TIDAL INFORMATION U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (N.O.A.A.) NATIONAL OCEAN SERVICE TIDAL STATION ID#8536110 CAPE MAY NEW JERSEY. TIDAL EPOCH DATED JANUARY 1983 – DECEMBER 2001

HORIZONTAL SCALE: 1"=100'

VERTICAL SCALE: 1"=10'

van note-harvey associates, inc.
consulting engineers, planners & land surveyors
102 College Road East • Princeton, NJ 08540 • 609-987-2323
211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization No. 24GA28027300

DFT.BY CHD.BY

Ralph Petrella Jr. 4/5/18
DATE OF SEAL

RALPH PETRELLA JR.
N.J. PROFESSIONAL ENGINEER & LAND SURVEYOR LIC. NO. GE 23226

CROSS-SECTIONS FOR:

NORTH WILDWOOD BEACH

STA. 55+30 TO STA. 56+10

CITY OF NORTH WILDWOOD

CAPE MAY COUNTY, N.J.

DRAWN BY	BMP	FIELD BK	ORDER No.	FILE No.	SHEET No.
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“R”

Hereford Inlet to Cape May Inlet, NJ

Published March 4, 2020

2

PHOTO DETAILS / DOWNLOAD HI-RES 1 of 1

The Hereford Inlet to Cape May Inlet Study is evaluating erosion and storm damage potential for the municipalities on Five Mile Island. Erosion has adversely affected the beach and dunes in North Wildwood increasing the risk of storm damage, while excessive accretion of sand along the central and southern portions of the island has caused health, environmental, and storm water drainage problems in Wildwood Crest.

PRINT | E-MAIL

CONGRESSIONAL DISTRICTS: NJ-2

APPROPRIATION / PHASE: General Investigations / Feasibility

BUSINESS PROGRAM: Flood & Coastal Storm Damage Reduction

AUTHORITY: The Hereford Inlet to Cape May General Investigation was undertaken by authority of The New Jersey Shore Protection Study, by resolutions adopted within the Committee on Public Works and Transportation of the U.S. House of Representatives and the Committee on Environment and Public Works of the U.S. Senate in December 1987.

LOCATION The study area includes Five Mile Island, located on the Atlantic Coast of New Jersey between Hereford and Cape May Inlets in Cape May County.

DESCRIPTION: The project area consists of the municipalities of North Wildwood, Wildwood, Wildwood Crest and Lower Township. These municipalities are vulnerable to storm damage all year round from a combination of hurricanes and nor'easters. The project area will be restricted to the beachfront, and tapered at the southern and northern ends at Hereford Inlet and the USFW/Coast Guard properties. The Non-Federal sponsor is the New Jersey Department of Environmental Protection (NJDEP). The City of North Wildwood is experiencing significant erosion of its berm and dune. What was the largest beach in the state now suffers from tidal flooding and wave run-up over a formerly protective beach. The municipality of North Wildwood has lost approximately 1,000 feet of beach during the past 5-10 years. In contrast to North Wildwood, sand accretion in Wildwood and Wildwood Crest is causing extensive maintenance problems and health hazards with their storm water management system. The excess sand clogs storm-water outfalls, creates pools of stagnant water, produces unhealthy beach conditions and causes associated interior flooding . During combined periods of heavy rain and high waves the City can not access the outfalls for excavation and rainwater becomes trapped within the pipes. The subsequent high volume discharge of impounded storm water can also cause spikes in poor water quality.

16 feet NAVD88 along the entire length of the project. The project would be accomplished by backpassing sand from those areas along the project in Wildwood and Wildwood Crest that have an excess accumulation of sand. The NJDEP, in coordination with the municipalities, will soon begin to acquire the necessary real estate easements to construct the project. It is anticipated that construction will begin in 2021; however, this could be subject to change.

PROJECT GOALS: The purpose of this project is to evaluate erosion and storm damage potential for the municipalities on Five Mile Island. It presently includes a constructed berm and dune extending from Hereford Inlet in North Wildwood to existing dunes in Wildwood and Wildwood Crest using backpassing technology. The creation of a dune and berm from Hereford to Cape May will reduce risk from coastal storms.

BACKPASSING TECHNOLOGY: Provides high quality sand as an alternative to offshore borrow areas, reduces beach maintenance, has lower emissions than traditional dredging and will not impact cultural or environmental resources within Hereford Inlet.

SPONSOR: New Jersey Department of Environmental Protection.

DATE OF AMENDED FEASIBILITY COST SHARE AGREEMENT: 28 October 2013

CIVIL WORKS REVIEW BOARD: 21 August 2014

DATE OF PROJECT PARTNERSHIP AGREEMENT: 17 Jan 2017

PROJECT MANAGER: Mike Hart

Related Link: 2014 Public Meeting Presentation

Related Link: NJDEP Bureau of Coastal Engineering

Related Link: Signed Chief's Report

Related Link: Final Feasibility Report Volume 1

Related Link: Final Feasibility Report Volume 2

Related Link: Final Feasibility Report Volume 3

Related Video: Historic Shoreline Sequence

Release no.

2

“S”

Ronald Simone

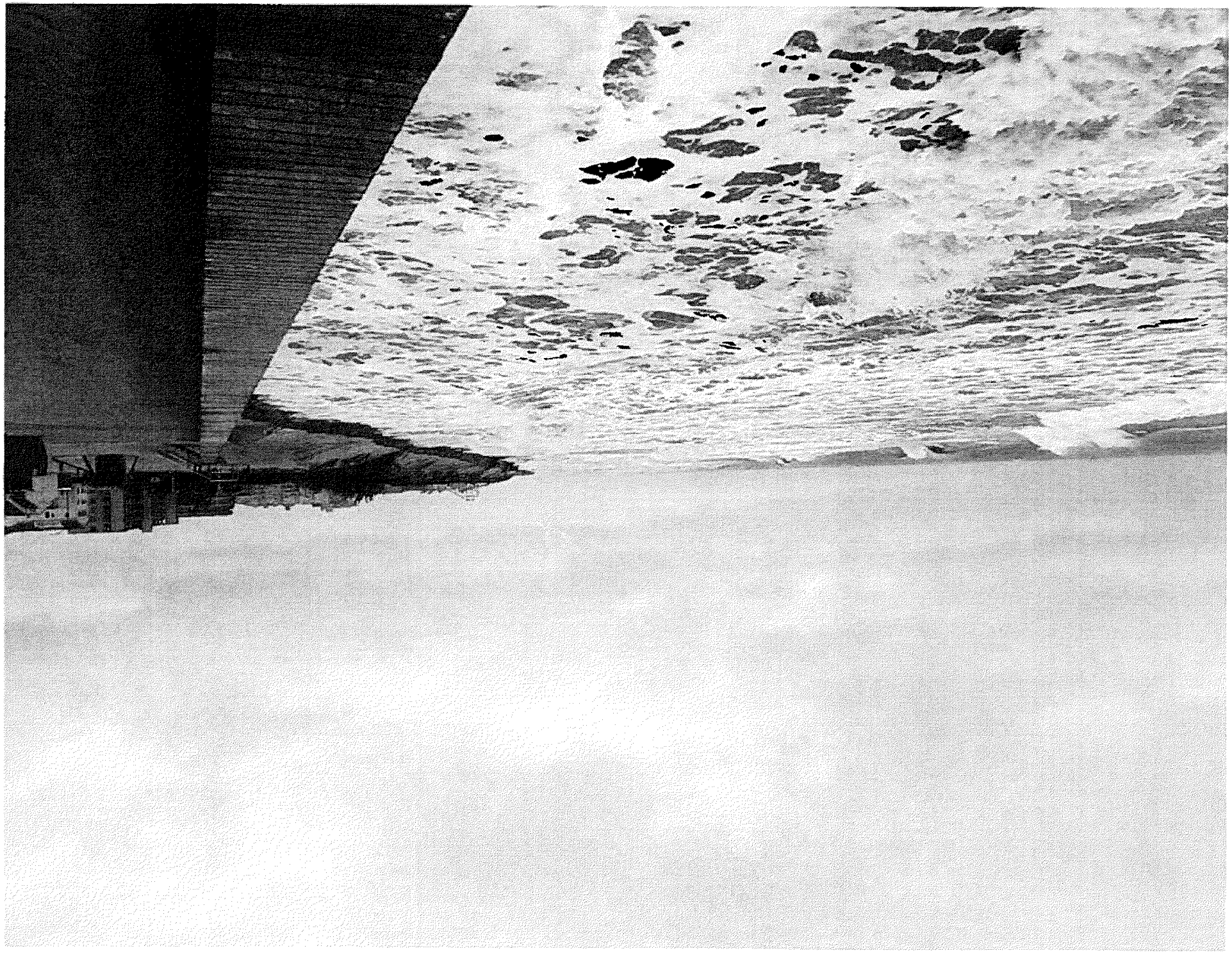
From: Patrick Rosenello <prosenello@northwildwood.com>
Sent: Thursday, October 10, 2019 8:57 AM
To: Christopher Constantino
Cc: Ronald Simone; Stewart Farrell; Jim Verna
Subject: Beach
Attachments: image0.jpeg; Untitled attachment 00004.txt

Chris:

Attached is a picture looking south from around 5th Avenue yesterday. We are expecting Moderate flooding over the next 36 hours.

There is a good chance that we will lose the dune south of the extended bulkhead. Does DEP have any emergency funds that could be used to either do a sand back passing, hydraulic pump from Hereford or an extension to the bulkhead to the south?

Perhaps we can use some of the funds from the seawall extension project to extend the bulkhead? They are really the same practical project.



“T”

Ronald Simone

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Thursday, October 17, 2019 8:48 AM
To: Christopher Constantino (Christopher.Constantino@dep.nj.gov)
Cc: Dixon, William (William.Dixon@dep.nj.gov)
Subject: North Wildwood Beach Erosion - 10/11/19

Good morning Chris,

Per your request and for comparison sake, below are the links to drone footage of North Wildwood Beach for the following dates of 9/4/19, 10/4/19, and 10/11/19 at dead high tide (or close to):

These are all from 9/4/19:

InletSide_SurfAvePavilion to MooresBeach - https://vimeo.com/358080068/6535f0bff6

InletSide_2ndStJetty to Surf Ave Pavilion - https://vimeo.com/358078586/360e71fb1b

FrontBeach_26th to 12th - https://vimeo.com/358076690/558d677e93

FrontBeach_2ndStJetty to 12thAvenue - https://vimeo.com/358074560/cc068352c5

These are all from 10/4/19:

10-4-2019 North WIldwood (south of lifeguard HQ 15th street) - https://vimeo.com/365799252

10-4-2019 North WIldwood (2nd & JFK to Surf Pavilion along inlet) - https://vimeo.com/365798759

10-4-2019 North WIldwood (12th and JFK headed north to 2nd, then back)) - https://vimeo.com/365770360/40ae2581ac

10-4-2019 North WIldwood (Surf Pavilion along inlet) - https://vimeo.com/365770362/dc1690cc8c

These are all from 10/11/19:

10-11-2019 North Wildwood (JFK & 10th north to 8th) - https://vimeo.com/365770358/2ff3d0a8f6

10-11-2019 North Wildwood (JFK & 10thth birdseye perspective pan up) - https://vimeo.com/365770359/03ef68f3f7

10-11-2019 North Wildwood (JFK & 5th north to 2nd Street Jetty) - https://vimeo.com/365770361/2b4ad56419

As you can see from the footage in the links above, the City of North Wildwood has lost upwards of 1,000,000 cy of sand this storm season within the past month, most of which was lost during this past week's coastal storm event. Furthermore, significant damage has been incurred to a majority of our dunes and beach access ways as a result of the most recent storm, making North Wildwood beach virtually in accessible with +60% of our beach access-ways closed due to dune scarping = +6' – 10' 'cliffs'. If the winter weather predictions for 2019-2020 are accurate, we expect more nor'easters similar to the one this past week that wreaked havoc on our beaches. In closing, North Wildwood is in desperate need of a hydraulic dredge project and any funding that the State can provide to assist in this effort would be greatly appreciated by the City, property owners, and residents.

Kind regards,
Ron

Ronald Simone, MPA
City Administrator
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

“U”

CITY OF NORTH WILDWOOD
901 Atlantic Avenue
North Wildwood, NJ 08260-5778
(609) 522-2030

Patrick T. Rosenello
Mayor

Ronald C. Simone III
City Administrator

November 8, 2019

Bill Dixon, Director
NJDEP, Division of Coastal Engineering
1510 Hooper Ave., Ste. 140
Toms River, NJ 08753

RE: Cape May-Hereford Inlet Shore Protection Feasibility

Dear Mr. Dixon:

Recently the United States Department of the Interior issued a memorandum that established the position of the Department with respect to the interpretation of the Coastal Barrier Resources Act (CBRA). This interpretation now permits the USACOE to apply to U.S. Fish and Wildlife to use sand from Hereford Inlet for shore protection projects in North Wildwood.

As further detailed in the attached letter to me from Dr. Stewart Farrell, the City of North Wildwood is requesting that the New Jersey DEP formally request that the USACOE amend or better their feasibility study to include hydraulic dredging from Hereford Inlet to restore the natural shoreline protections in North Wildwood.

You are aware of the catastrophic damage that has occurred to our shore protection measures, including the near complete destruction of sensitive bird nesting and migratory feeding areas, as well as designated wetlands. Should this damage continue to erode our natural and engineered dune system, critical public infrastructure will soon be at grave risk.

Upon review of this letter and the attached letter from Dr. Farrell, I would ask that you take all necessary measures to make a formal request to USACOE to amend their feasibility study for this project.

Your attention to this matter is greatly appreciated and I look forward to the courtesy of your reply.

Sincerely,

Patrick Rosenello
Mayor

The Coastal Research Center

Ph. 609-652-4245
Fax 609-748-0656

30 Wilson Avenue
Port Republic, NJ 08241

www.stockton.edu/crc

NEW JERSEY'S DISTINCTIVE PUBLIC UNIVERSITY

Mayor Patrick Rosenello
City of North Wildwood
901 Atlantic Avenue
North Wildwood, NJ 08260

November 6, 2019

Dear Mayor Rosenello,

Following up on the response from Mr. Constantino, I am listing a set of criteria focused on the threat to the oceanfront in the City. This is just a basic outline which I think we need to put some substance into to present the case for hydraulic fill with the US Army Corps as the co-sponsor with the DCE in New Jersey along with the local contribution (8.75% of project). The 2009 project was split at 75% NJ State funds and 25% local funds and is cited in the 2013 US Army feasibility study as costing $9,450,000.

1. The most recent survey of the oceanfront was completed Nov 1st covering the beach from the inlet at Central Avenue extended, to the jetty, then south for 6,800 feet beyond Morey's Surfside pier covering the dunes, beach and offshore to -10 feet of water.
2. This data is in final analysis and checking to generate a sand loss volume since June and as compared to the 2011 post-Irene restoration that accounted for the USF&WS objection to continued sand placement on the inlet beach northwest of the 2nd Ave. jetty.
3. Turning to the 2013 Feasibility study, the comparison between inlet and back-passed sand sources were:
    a. Back-passing reduced storm drain obstruction in Wildwood.
    b. Inlet sourced sand added to the North Wildwood oceanfront beach acerbates the Wildwood storm drain issue.
    c. Repeated back-pass operations have lower mobilization costs than the inlet hydraulic dredge
4. Another concern was the sand supply impact caused from both No. Wildwood and Stone Harbor taking sand from Hereford Inlet. This in spite of the 2013 estimate of over 5 million cy of sand available and without counting natural recovery rates recently under study by the DEC starting in 2011.
5. The anticipated project outcomes for North Wildwood were essentially equal when comparing inlet sourced versus pack-passed sand supplies. The added benefits derived from back-passing stemmed from anticipated storm drain improvements in Wildwood, lower littoral transport south, and the ease of back-passing operational set up.
6. The subsequent years have added a few negative aspects unrelated to the sand sourcing.
    a. The discovery that the Wildwood beach seaward to the high water line, immediately south of the North Wildwood boundary is owned in fee simple by each oceanfront private lot at the boardwalk. This presents real estate issues to the back-passing model, but not to inlet sourced deposition in North Wildwood.
    b. The Wildwood City officials have raised multiple issues over where, how high, and how the proposed beach dune system would be placed in Wildwood as it may impact the variety of major beach "Events" held annually in the City.
    c. Issues emerged on exactly what would be the impacts of sand excavation from the intertidal zone in Wildwood Crest and Wildwood City. The 2013 concept of crawler cranes with eductor dredge generating deep holes in the shallow sub-tidal area did not go without criticism.

“V”

732-255-0767 – office
609-575-6969 – (business cell)
Please note the newer Division name & newer email: Christopher.Constantino@dep.nj.gov
Please consider the environment before printing this message.

From: Patrick Rosenello <Prosenello@NorthWildwood.Com>
Sent: Tuesday, November 19, 2019 2:30 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Cc: Jim Verna <jverna@vannoteharvey.com>; Ronald Simone <rsimone@northwildwood.com>
Subject: [EXTERNAL] North Wildwood

Chris:

By copy of this email to Jim Verna I am requesting that he provide you with the plans we are currently using for our emergency bulkhead extension. As Jim is at the League this week, I am not sure when he will be able to get them to you.

In addition, I am providing a copy of the letter that was sent to Congressman Van Drew this morning requesting his assistance with expediting an amendment to the USACE Feasibility Study.

The situation in North Wildwood has taken a dramatic turn for the worst. Yesterday, our contractor was literally battling a tidal surge as he attempted to drive sheet piles to protect critical public infrastructure. Today I authorized awarding the add alternate for the current bulkhead project which will extend the bulkhead to around 13th Avenue. Based on the amount of loss we have experienced in the last several months, it appears very likely that we will lose most, if not all, of the dunes and vegetation between 7th and at least 13th over the course of this winter.

In addition, I have directed Jim Verna to begin taking all necessary steps to update plans and permits for a hydraulic project out of Hereford so that we have the ball rolling if and when we get either federal or state assistance in this regard.

Sincerely,
Sincerely,
Patrick Rosenello
Patrick Rosenello, Mayor
City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260
P: 609-522-6464
E: Prosenello@NorthWildwood.com

<image001.png>

Toms River, N.J. 08753
732-255-0767

From: _Verna, Jim <jverna@vannoteharvey.com>
Sent: Tuesday, November 19, 2019 3:01 PM
To: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Cc: Patrick Rosenello <Prosenello@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Subject: Re: [EXTERNAL] North Wildwood 44693-400-21

Chris,
I'll be back in the office on Thursday and will send you the new bulkhead plans then.

Jim

James W. Verna III
Senior Project Coordinator
Van Note - Harvey Associates, Inc.
211 Bayberry Drive, Suite 2-E
Cape May Court House, NJ 08210
609.465.2600, extension 325
609.465.8028 (F)
jverna@vannoteharvey.com

On Nov 19, 2019, at 2:58 PM, Constantino, Christopher <Christopher.Constantino@dep.nj.gov> wrote:

> Mayor,
>
> I am in receipt of your letter and have forwarded it to Bill and Dave as well as key staff at the Corps.
>
> Additionally, we had an interim update call with the Corps regarding the Corps Inlet Seawall project, our state/local oceanfront seawall project, and the status of the Hereford to Cape May Corps beachfill (which included the Hereford Inlet borrow area discussions). We are waiting on a few key updates from Corps, which we expect this week, before we have a formal update call with the City. Following these Corps updates and our call with you, we should be able to close the loop with final oceanfront seawall comments in short order.
>
> We hope to have this call with the City at the end of this week.
>
> Sincerely,
> Chris Constantino
> Environmental Specialist 3
> NJDEP, Division of Coastal Engineering
> 1510 Hooper Ave., Ste. 140
> Toms River, NJ – 08753
> 732-255-0767 – office
> 609-575-6969 – (business cell)

“W”

Ronald Simone

From: Patrick Rosenello <prosenello@northwildwood.com>
Sent: Wednesday, November 20, 2019 11:53 AM
To: Constantino, Christopher
Cc: _Verna, Jim; Ronald Simone
Subject: Re: [EXTERNAL] North Wildwood 44693-400-21

Chris:

The existing bulkhead ended right next to an ADA cross over. We had a choice to sacrifice that cross over and turn the bulkhead before it or save it.

Sincerely,

Patrick Rosenello
Mayor
City of North Wildwood

On Nov 20, 2019, at 11:32 AM, Constantino, Christopher <Christopher.Constantino@dep.nj.gov> wrote:

Sorry - forgot to include the picture

Christopher Constantino, Environmental Specialist 3
New Jersey Department of Environmental Protection, Bureau of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, N.J. 08753
732-255-0767

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Wednesday, November 20, 2019 11:30 AM
To: _Verna, Jim <jverna@vannoteharvey.com>
Cc: Patrick Rosenello <Prosenello@northwildwood.com>; Ronald Simone <rsimone@northwildwood.com>
Subject: Re: [EXTERNAL] North Wildwood 44693-400-21

Thanks Jim. Looking forward to seeing them...

This is an interesting bulkhead alignment...

Christopher Constantino, Environmental Specialist 3
New Jersey Department of Environmental Protection, Bureau of Coastal Engineering
1510 Hooper Ave., Suite 140

“X”

DR. JEFFERSON VAN DREW
2ND DISTRICT OF NEW JERSEY

HOUSE AGRICULTURE COMMITTEE
SUBCOMMITTEE ON COMMODITY EXCHANGES, ENERGY AND CREDIT
SUBCOMMITTEE ON BIOTECHNOLOGY, HORTICULTURE AND RESEARCH
SUBCOMMITTEE ON NUTRITION, OVERSIGHT AND DEPARTMENT OPERATIONS
HOUSE NATURAL RESOURCES COMMITTEE
SUBCOMMITTEE ON WATER, OCEANS AND WILDLIFE

CONGRESS OF THE UNITED STATES
HOUSE OF REPRESENTATIVES
WASHINGTON, D.C. 20515

December 6, 2019

Lt. Col. Dave Park
Commander, Philadelphia District
U.S. Army Corps of Engineers
100 Penn Square East
Philadelphia, PA 19107

RE: Request to Amend USACE Plan/Feasibility Study for Hereford Inlet to Cape May Inlet Shore Protection Project

Dear Commander Park:

I am writing to draw your attention to a city in my district, North Wildwood, that has declared an emergency that requires immediate action for its shore protection and to protect critical infrastructure.

The City of North Wildwood's last federally funded hydraulic beach fill took place in 2013 after a federal disaster was declared for Super-storm Sandy. The City's issue is unique and differentiates from our neighboring communities in that the City of North Wildwood does not receive Federal assistance from the Army Corps of Engineers (USACE) for the purposes of hydraulic beach fills on a repetitive basis because the only potential borrow area is Hereford Inlet, which is within the Coastal Barrier Resource System (CBRS). Until recently, that borrow area was unavailable to the USACE. As a result, the USACE has not included such a project in their feasibility study for the Hereford Inlet to Cape May Inlet Shore Protection Plan.

Consequently, the City of North Wildwood has declared an emergency and is planning a bulkhead extension project from 7th – 15th Avenues directly through the middle of our dune system to protect critical public infrastructure. The bulkhead extension project will cost up upwards of $2 million. This will be the second bulkhead extension, after the City of North Wildwood extended the bulkhead from 3rd – 7th Avenue in 2017.

In addition, since 2014, the City of North Wildwood has spent upwards of $1.5 million per year to truck sand from the Cities of Wildwood and Wildwood Crest, commonly referred to as "sand-back-pass." All in all, as a result of the CBRS interpretation in Hereford Inlet, the City of North Wildwood has spent over $10 million from 2014-2019 to combat erosion from coastal storms.

Recently the United States Department of the Interior issued a memorandum that established the position of the Department with respect to the interpretation of the Coastal Barrier Resources Act. This interpretation now permits the USACE to apply to U.S. Fish and Wildlife Service to use sand from Hereford Inlet for shore protection projects in North Wildwood.

After the recent letter of determination from Secretary Bernhardt regarding the CBRS in Hereford Inlet, and in order to avoid the potential of catastrophic damage to critical public infrastructure in the City of North Wildwood, it is more important now than ever that the USACE takes all necessary measures to amend the plans and feasibility study for the Hereford Inlet to Cape May Inlet shore Protection Project to allow for a hydraulic beach fill out of Hereford Inlet.

In short, in addition to your attention to the emergent situation we are dealing with in North Wildwood, I would also request an expedited review of our request to amend the plans and feasibility study for the Hereford Inlet to Cape May Inlet Shore Protection Project.

Thank you for your consideration and we look forward to hearing a response from you in the coming days.

Sincerely,

Jeff Van Drew
Member of Congress

"Y"

The Coastal Research Center

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NEW JERSEY'S DISTINCTIVE PUBLIC UNIVERSITY

Mr. Ronald Simone, Administrator
City of North Wildwood
901 Atlantic Avenue
North Wildwood, NJ

December 20, 2019

Dear Mr. Simone,

The Stockton University Coastal Research Center (CRC) finished surveying the oceanfront shoreline along with six profiles along the Hereford Inlet shoreline in November 2019 as the final 2019 project survey. Following discussions with yourself and the Mayor, we have completed integrating the November survey with two other surveys to obtain oceanfront sand volumes lost since the July 2013 review of the as-built conditions following the post-Hurricane Sandy hydraulic fill restoration. That work commenced in May 2013 with Norfolk Dredging taking sand from the authorized sand borrow area in Hereford Inlet and pumping the material as fill from the 2nd Avenue jetty, south to the Wildwood City boundary. These cross sections, taken every 200 feet along the oceanfront beach, establish a design template for anticipated restoration as soon as permits and contracts can be arranged.

Since the July 2013 survey, multiple episodes of sand transfer back from Wildwood Crest or the Wildwood City storm water outfall discharge pipelines on their beach have augmented the sand supply present on the city beaches. However, storm-generated losses have mounted to the point where a major hydraulic beach restoration appears essential. The City and the State of New Jersey Division of Coastal Engineering cooperated in 2009 to place over 600,000 cubic yards of sand on the City beach from Surf Avenue extended in Hereford Inlet, south just into Wildwood City as a taper back to the existing shoreline.

That project was not yet complete when the first storm disaster declaration was declared for northeast storm damage in November 2009. Declarations also occurred in March 2010 and December 2010. Restoration work commenced in early 2011, but Hurricane Irene inflicted more losses. These were partially addressed with the initial sand back-passing operation from Wildwood Crest beach sand surpluses. October 29, 2012 brought Hurricane Sandy to the Jersey shoreline and that disaster declaration resulted in Congressional authorization of over 2 billion dollars in disaster relief funding as of January 2013. The US Army Corps of Engineers contracted with Norfolk Dredging to restore the Stone Harbor federal project to the US Army design template, while North Wildwood approached Norfolk to also supply sand to restore the City beaches along the oceanfront with FEMA Category "G" funding under their disaster reimbursement formulas for "engineered beaches".

Since then, back-passing sand from Wildwood City has been the mode of sand augmentation with one episode of pumping Beach Creek channel sand dredging to the northern oceanfront shoreline.

In spite of all these activities, the storm pattern has reduced the sand volume on the North Wildwood oceanfront shoreline by 639,332 cubic yards along with the complete removal of the 2009 project dunes from 3rd Avenue, south to 7th Avenue and partially cut the dunes to 11th Avenue. The original dune template seaward of the three ocean piers on the North Wildwood oceanfront also fell victim to the storms and the dunes were pulled back after a second attempt at replacing them in 2013 failed. Today, that dune line lies close to the boardwalk and is

tied to each of the three piers. The bulk of the new position was formed around a much older dune island located between Morey's Surfside Pier and the adjacent timber pier that emerged from years of depositing beach raking materials at its location. Wind transport added sand and the abundance of plant seeds raked up over time generated lush vegetation on the feature. The higher elevations were extended to both piers and a ridge was continued from the northern dune line to the first timber pier completing the current dune system.

Sand Volume Losses Since July 2013;

Table 1, below contains computations derived by direct comparison of survey data from July 2013 with identical cross sections surveyed in November 2019. Computer comparison of each cross section determines areas of loss versus areas of gain and determines the sand volume change in cubic yards of sand per foot of shoreline. Then the spreadsheet averages the sand volume change computed for each pair of adjacent cross sections and multiplies that average times the 200-foot distance between cross sections to obtain the sand volume change between each pair of profiles. This is a traditional methodology called "Closed-end Averaging".

The summation of all the cross sections from the 2nd Avenue jetty to the Wildwood boundary came to 639,332 cubic yards between the reference starting point landward of the dunes and a point offshore from the beach ending in about 10 feet of water at low tide. Boat survey data exists further seaward to 2,500 feet offshore, but was not utilized in the computations since no potential beach restoration impacts the sea floor that far offshore.

Breaking the oceanfront into three sections;

1. The 2nd Ave. jetty to 4th Avenue beach produced a net loss of 107,173 cubic yards of sand.
2. The 4th to 11th Avenue zone produced a net loss of 324,540 cubic yards of sand.
3. The 11th to Juniper Avenue section produced a net loss of 199,655 cubic yards.

Each separate cross section is displayed in the Appendix at the end of this report.

Sand Volume Losses Since June 2019;

Table 2, which follows Table 1 was done to provide insight as to how rapidly sand was leaving the City beaches and moving either into the inlet shoreline or south into Wildwood. The spring survey was completed in June of 2019 and a similar comparison provides the following information. The net loss across the City oceanfront was 156,246 cubic yards of sand.

1. The 2nd Ave. jetty to 4th Avenue produced a net loss of 43,995 cubic yards of sand.
2. The 4th to 11th Avenue zone produced a net loss of 99,037 cubic yards of sand.
3. The 11th to Juniper Avenue section produced a net loss of 13,214 cubic yards.

Therefore, this summer and fall the oceanfront beach sand volume loss amounted to 24.4% of the entire 2013 to 2019 loss amount. Remember that sand back-passing replaced this seasonal loss each year between 2015 and spring 2019. Altogether, approximately twice the 639,332 cubic yards of sand has been moved off the City beaches to the inlet beach or south back to Wildwood. Biannual surveys of NJ State-sponsored profile sites in Wildwood and Wildwood Crest provide data showing each year, both sites gain sand averaging 33.41 yds^3/ft. and 17.86 yds^3/ft. at the two locations (Table 3, below). Summarizing the sand added to the North Wildwood beaches since 2015, 751,151 cubic yards of either dredged sand or sand trucked back to North Wildwood from either Wildwood Crest or the City of Wildwood shows why the accumulated losses are so severe since the 2009 beach restoration project. Cresse Avenue at the border of Wildwood City and Wildwood Crest gains 200,000 cubic yards per 6,000 foot segment (approximating the oceanfront North Wildwood beach length) per year, or about a million cubic yards since 2015.

The gross loss in sand volume from North Wildwood is not exactly the sum of the 2013 to 2019 sand volume loss plus the departure of all the material added since 2015 (1,390,483 cy), but it will necessitate adding 650,000 cubic yards of new material to return the oceanfront to July 2013 conditions.

TABLE 1
North Wildwood Engineered Beach Loss Since the July 2013 Restoration
July 2013 to November 2019

Profile	Shoreline Change (feet)	Volume Change (cu yds/ft.)	Avg. Volume (cu yds./ft.) (cu yds/ft.)	Distance Between (feet)	Dune/Beach Losses (cu yds)			
Hereford Inlet Shoreline								
-6+00								
			0.00	200	0	0		
-4+00								
			0.00	200	0	0		
-2+00								
			0.00	200	0	0		
-0+00								
		Arc = 90.0	-16.38	-7,532	-7,532	-7,532		
0+00	-60	-32.76						
			-89.39	200	-17,878	-25,410		
2+00	-214	-146.02						
			-177.60	200	-35,520	-60,930		
4+00	-282	-209.18						
			-231.22	200	-46,243	[illegible]	[illegible]	4th Ave.
6+00	-352	-253.25						
			-250.88	200	-50,176	157,349	-50,176	
8+00	-357	-248.51						
			-256.46	200	-51,292	-208,641	-101,468	
10+00	-383	-264.41						
			-258.34	200	-51,667	-260,308	-153,135	
12+00	-413	-252.26						
			-239.93	200	-47,986	-308,294	-201,121	
14+00	-407	-227.60						
			-206.13	200	-41,225	-349,519	-242,346	
16+00	-387	-184.65						
			-190.51	200	-38,102	-387,621	-280,448	
18+00	-389	-196.37						
			-165.17	200	-33,034	-382,553	-275,380	
20+00	-349	-133.97						
			-134.46	200	-26,892	-409,445	-302,272	
22+00	-321	-134.95						
			-129.72	200	-25,944	-408,497	-301,324	
24+00	-345	-124.49						
			-121.15	200	-24,230	-432,727	-325,554	
26+00	-344	-117.81						
			-116.08	200	-23,216	-431,713	[illegible]	11th Ave.
28+00	-304	-114.35						
			-108.51	200	-21,702	-453,415	-346,242	
30+00	-235	-102.67						
			-95.54	200	-19,107	-450,820	-19,107	
32+00	-227	-88.40						
			-98.21	200	-19,642	-470,462	-38,749	
34+00	-256	-108.02						
			-105.47	200	-21,094	-471,914	-40,201	
36+00	-245	-102.92						
			-89.07	200	-17,813	-489,727	-58,014	
38+00	-212	-75.21						
			-74.86	200	-14,972	-486,886	-55,173	
40+00	-180	-74.51						
			-63.97	200	-12,794	-499,680	-67,967	
42+00	-161	-53.43						
			-62.22	200	-12,444	-499,330	-67,617	
44+00	-165	-71.01						
			-68.07	200	-13,613	-512,943	-81,230	
46+00	-140	-65.12						
			-53.15	200	-10,630	-509,960	-78,247	
48+00	-122	-41.18						
			-42.18	200	-8,436	-518,396	-86,683	
50+00	-67	-43.18						
			-36.97	200	-7,394	-525,790	-94,077	
52+00	-113	-30.76						
			-50.97	200	-10,193	-535,983	-104,270	
54+00	-119	-71.17						
			-73.35	200	-14,669	-550,652	-118,939	
56+00	-138	-75.52						
			-80.14	200	-16,028	-566,680	-134,967	
58+00	-160	-84.76						
			-85.61	200	-17,121	-583,801	-152,088	
60+00	-174	-86.45						
			-90.33	200	-18,065	-601,866	-170,153	
62+00	-176	-94.20						
			-88.84	200	-17,767	-619,633	-187,920	
64+00	-138	-83.47						
			-58.68	200	-11,735	-631,368	[illegible]	Jasper Ave.
66+00	-97	-33.88						
			-28.38	200	-5,676	-637,044	-205,331	
68+00	16	-22.88						
			-11.44	200	-2,288	-639,332	-207,619	

TABLE 2
North Wildwood Engineered Beach Loss Since June 2019
June 2019 to November 2019

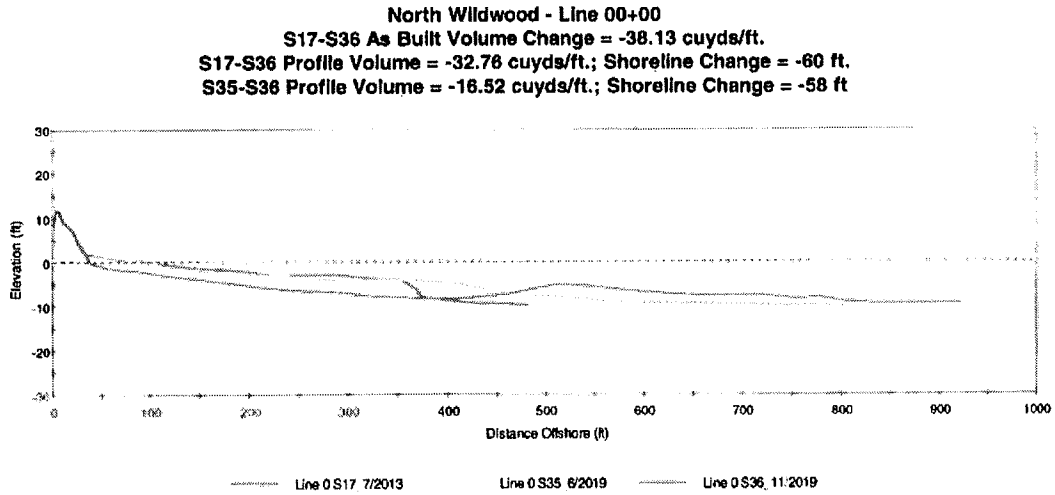
Profile	Shoreline Change (feet)	Volume Change (cu yds/ft.)	Avg. Volume (cu yds./ft.) (cu yds/ft.)	Distance Between (feet)	Dune/Beach Losses (cu yds)			
Hereford Inlet Shoreline								
-6+00								
			0.00	200	0	0		
-4+00								
			0.00	200	0	0		
-2+00								
			0.00	200	0	0		
-0+00								
		Arc = 90.0	-8.26	-3,798	-3,798	-3,798		
0+00	-58	-16.52						
			-38.75	200	-7,750	-11,548		
2+00	-90	-60.98						
			-74.81	200	-14,962	-26,510		
4+00	-84	-88.64						
			-87.43	200	-17,485	[illegible]	[illegible]	4th Ave
6+00	-91	-86.21						
			-81.37	200	-16,274	-60,269	-16,274	
8+00	-88	-76.53						
			-76.71	200	-15,341	-75,610	-31,615	
10+00	-88	-76.88						
			-71.78	200	-14,355	-89,965	-45,970	
12+00	-109	-66.67						
			-67.84	200	-13,567	-103,532	-59,537	
14+00	-92	-69.00						
			-61.17	200	-12,233	-115,765	-71,770	
16+00	-89	-53.33						
			-54.93	200	-10,985	-126,750	-82,755	
18+00	-83	-56.52						
			-51.50	200	-10,299	-136,064	-82,069	
20+00	-77	-46.47						
			-47.31	200	-9,461	-135,525	-91,530	
22+00	-73	-48.14						
			-47.00	200	-9,399	-135,463	-91,468	
24+00	-78	-45.85						
			-42.93	200	-8,586	-144,049	-100,054	
26+00	-84	-40.01						
			-37.85	200	-7,569	-143,032	[illegible]	10th Ave
28+00	-75	-35.68						
			-34.96	200	-6,992	-150,024	-106,029	
30+00	-70	-34.24						
			-29.42	200	-5,884	-148,916	-5,884	
32+00	-51	-24.60						
			-18.35	200	-3,670	-152,586	-9,554	
34+00	-32	-12.10						
			-7.60	200	-1,519	-150,435	-7,403	
36+00	-26	-3.09						
			-1.35	200	-270	-150,705	-7,673	
38+00	-29	0.39						
			-0.05	200	-10	-150,445	-7,413	
40+00	-40	-0.49						
			-1.31	200	-262	-150,707	-7,675	
42+00	-41	-2.13						
			-2.18	200	-436	-150,881	-7,849	
44+00	-39	-2.23						
			-6.72	200	-1,344	-152,225	-9,193	
46+00	-22	-11.21						
			-11.45	200	-2,289	-153,170	-10,138	
48+00	-60	-11.68						
			-10.39	200	-2,077	-155,247	-12,215	
50+00	-37	-9.09						
			-6.53	200	-1,306	-156,553	-13,521	
52+00	-48	-3.97						
			-2.73	200	-545	-157,098	-14,066	
54+00	-20	-1.48						
			-0.22	200	-44	-157,142	-14,110	
56+00	39	1.04						
			-0.43	200	-85	-157,227	-14,195	
58+00	-5	1.89						
			-1.92	200	-383	-157,610	-14,578	
60+00	4	1.94						
			0.23	200	46	-157,564	-14,532	
62+00	14	2.40						
			3.92	200	783	-156,781	-13,749	
64+00	49	5.43						
			2.68	200	535	-156,246	[illegible]	Juniper Ave
66+00	-16	-0.08						
			3.71	200	742	-155,504	12,372	
68+00	65	7.50						
			3.75	200	750	-154,754	-11,722	

TABLE 3
Sand Volume Changes Along the Beaches of the Wildwoods

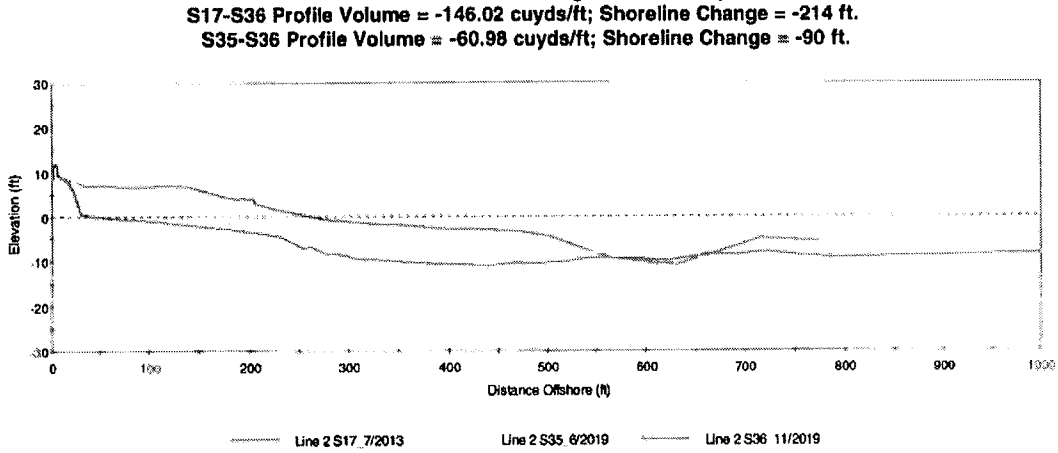
YEAR	15th AVE NWW cy/ft	ADDED SAND Cu. Yds.	CRESSE AVE cy/ft	RALEIGH AVE cy/ft
2014	-46.51		50.72	45.39
2015	-99.44	72,000	46.09	20.77
2016	-18.80	171,000	-7.92	-37.31
2017	30.87	190,000	38.67	49.95
2018	-72.50	153,375	39.50	10.50
2019		164,776		
Average	**-41.28**		**33.41**	**17.86**
Annual Sand Volume Chg per 6000 ft.	**-247,656**	**751,151**	**200,472**	**107,160**

This table lists the annual profile cross section changes for 2014 through 2019 fall seasonal surveys. In addition, the recorded sand volumes added to the North Wildwood oceanfront from sand back-passing show in the middle column. The sand volume change per 6000 feet of oceanfront indicates a pronounced sand transfer to the south along the barrier island.

North Wildwood Oceanfront Beach Profile Cross Section Plots for July 2013, June 2019 and November 2019

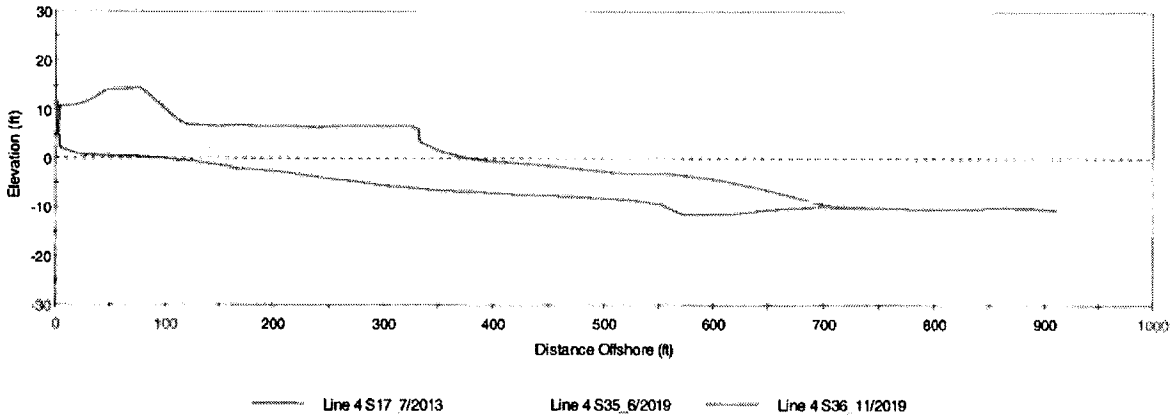


Line 0+00, located at the south base of the 2nd Ave. jetty, this site presently has no dry sand beach.



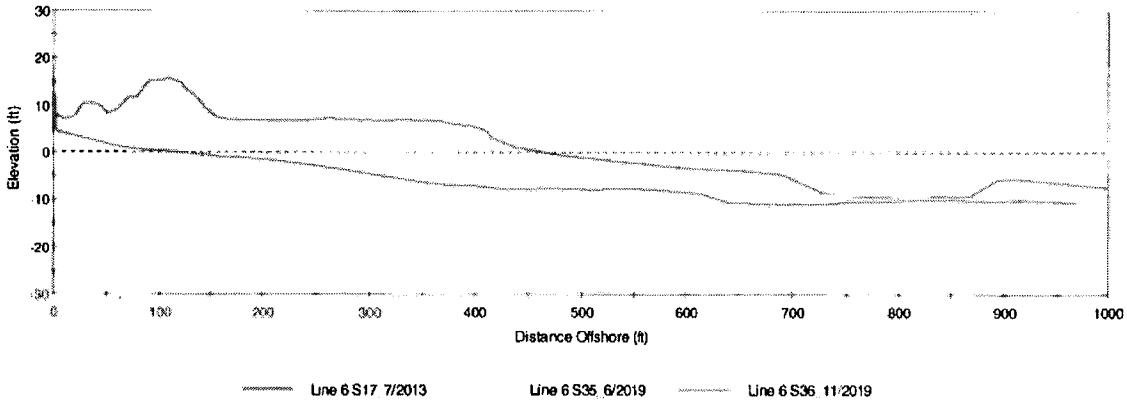
Line 2+00, 200 feet south of the jetty and presently without a dry sand beach.

North Wildwood - Line 04+00
S17-S36 As Built Volume Change = -209.26 cuyds/ft
S17-S36 Profile Volume Change = -209.18 cuyds/ft ; Shoreline Change = -282 ft.
S35-S36 Profile Volume Change = -88.64 cuyds/ft ; Shoreline Change = -84 ft



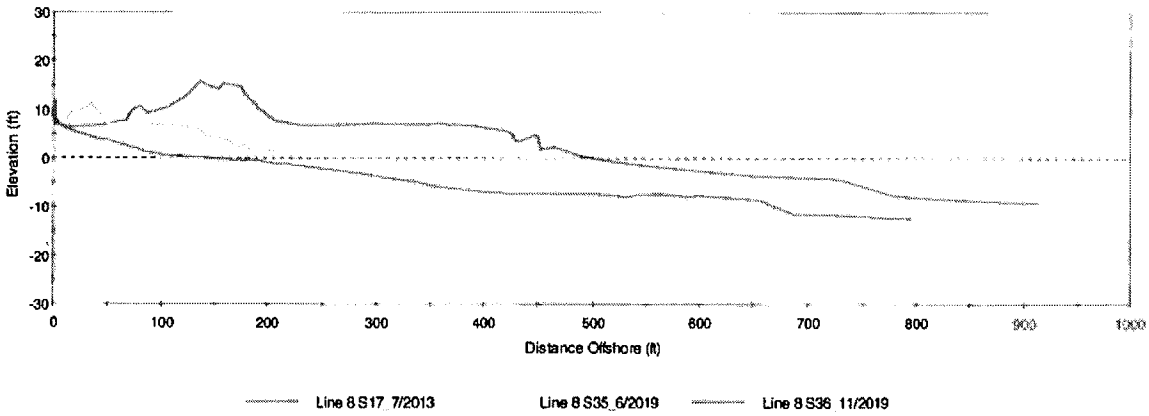
Line 4+00, is the second line south without a dry sand beach presently.

North Wildwood - Line 06+00
S17-S36 As Built Volume Change = -235.06 cuyds/ft.
S17-S36 Profile Volume Change = -253.25 cuyds/ft.; Shoreline Change = -352 ft.
S35-S36 Profile Volume Change = -86.21 cuyds/ft.; Shoreline Change = -91 ft.



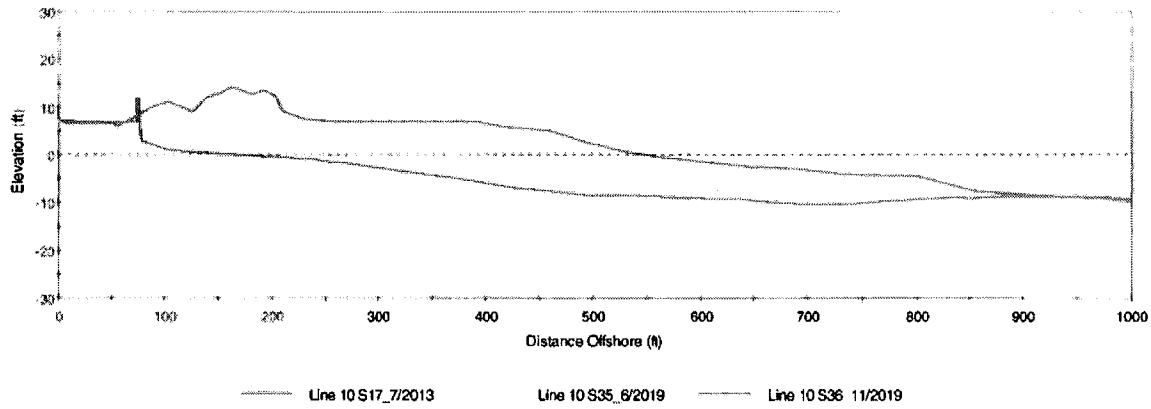
Line 6+00, is the first cross section with a wet beach at low tide.

North Wildwood - Line 08+00
S17-S36 As Built Volume Change = -248.70 cuyds/ft.
S17-S36 Profile Volume Change = -248.51 cuyds/ft.; Shoreline Change = -357 ft.
S35-S36 Profile Volume Change = -76.53 cuyds/ft.; Shoreline Change = -88 ft.



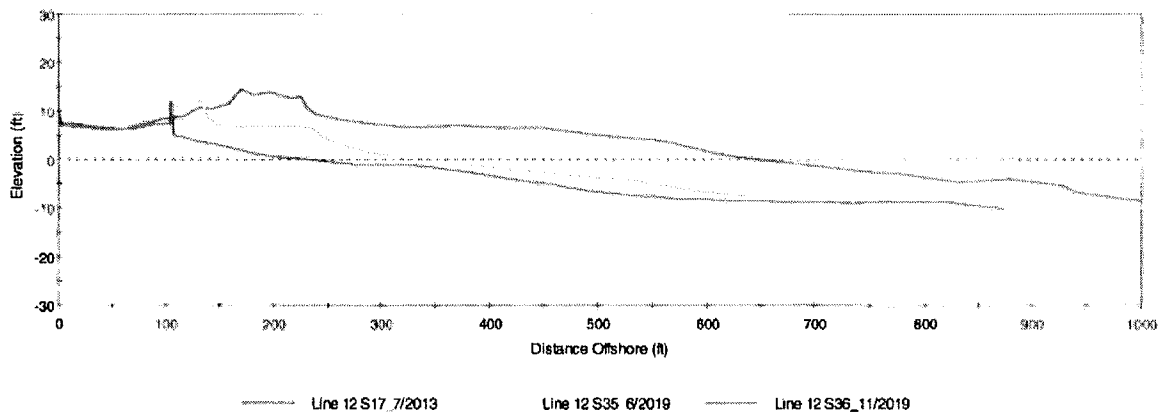
Line 8+00, Lost its dune by June 2019 and most of the beach surface by November 2019.

North Wildwood - Line 10+00
S17-S36 As Built Volume Change = -265.52 cuyds/ft.
S17- S36 Profile Volume Change = -264.41cuyds/ft.; Shoreline Change = -383 ft.
S35-S36 Profile Volume Change = -76.88 cuyds/ft.: Shoreline Change = -88 ft.



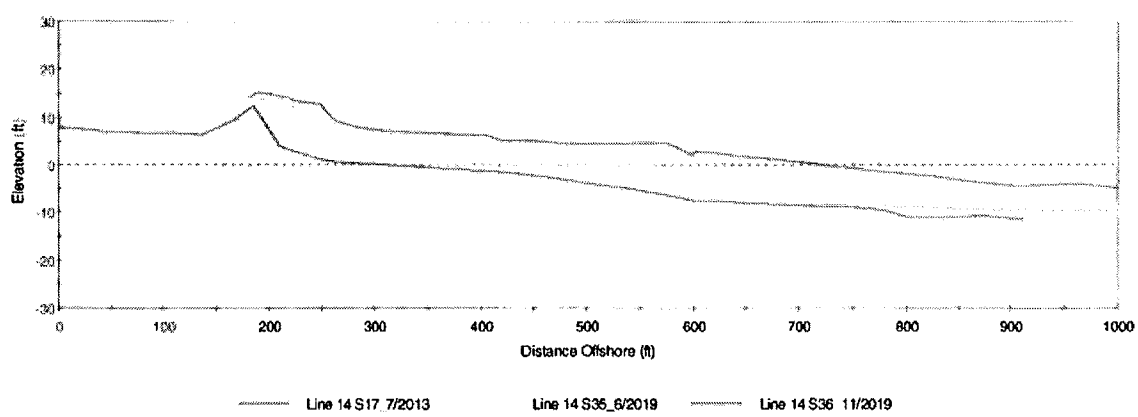
Line 10+00, a thousand feet south of the jetty, the beach ends at the new bulkhead, the dune has been lost.

North Wildwood - Line 12+00
S17-S36 As Built Volume Change = -252.15 cuyds/ft.
S17-S36 Profile Volume Change = -252.26 cuyds/ft.; Shoreline Change = -413 ft.
S35-S36 Profile Volume Change = -66.67 cuyds/ft.; Shoreline Change = -109 ft.



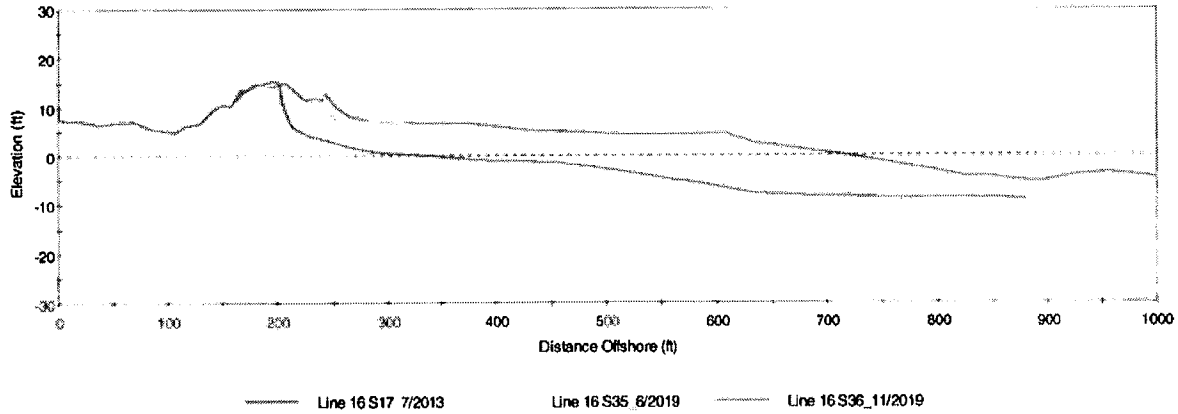
Line 12+00, is also at the new bulkhead where the dune in June 2019 was a remnant of that present in 2013.

North Wildwood - Line 14+00
S17-S36 As Built Volume Change = -227.60 cuyds/ft.
S17-S36 Profile Volume Change = -227.60 cuyds/ft.: Shoreline Change = -407 ft.
S35-S36 Profile Volume Change = -69.00 cuyds/ft.; Shoreline Change = -92 ft.



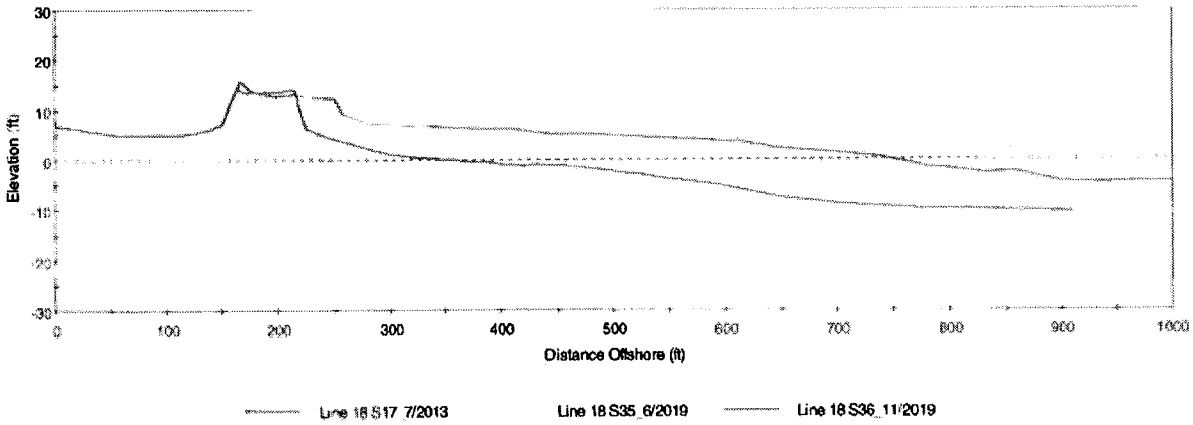
Line 14+00, a remnant dune remains, but almost 100 feet landward of the 2013 dune toe position.

North Wildwood - Line 16+00
S17-S36 As Built Volume Change = -185.56 cuyds/ft.
S17-S36 Profile Volume Change = -184.65 cuyds/ft.; Shoreline Change = -387 ft.
S35-S36 Profile Volume Change = -53.33 cuyds/ft.: Shoreline Change = -89 ft.



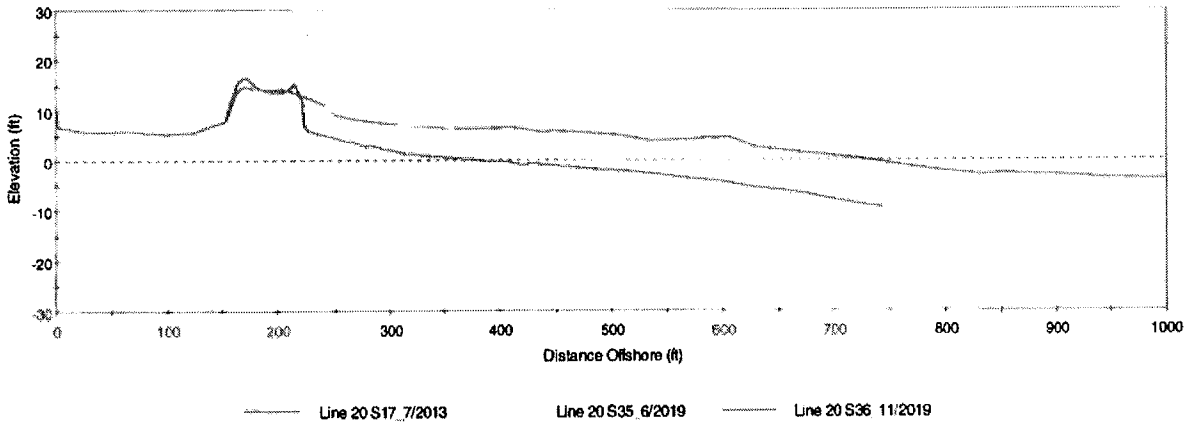
Line 16+00, about half the 2013 dune remains 1,600 feet south of the jetty.

North Wildwood - Line 18 +00
S17-S36 As Built Volume Change = -197.03 cuyds/ft.
S17-S36 Profile Volume Change = -196.37 cuyds/ft.; Shoreline Change = -389 ft.
S35-S36 profile Volume Change = -56.52 cuyds/ft.; Shoreline Change = -83 ft.



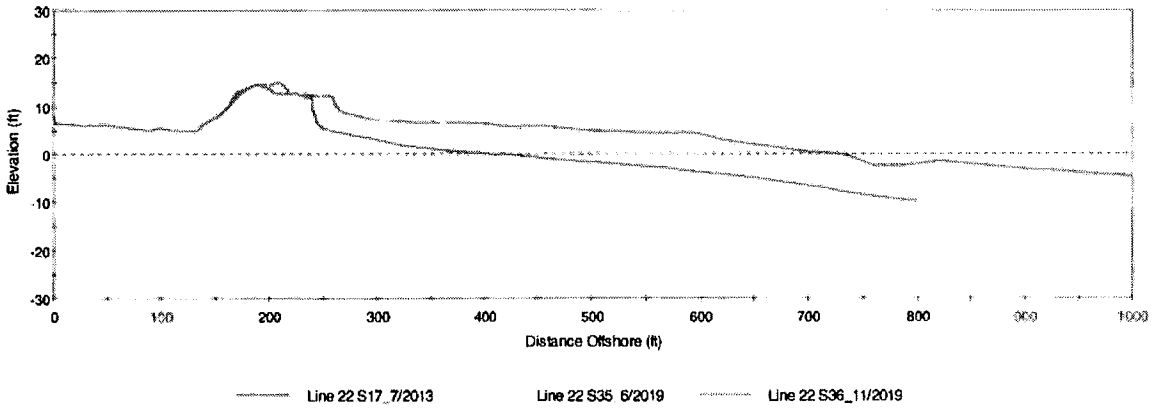
Line 18+00, the dune has been truncated, but remains at the design elevation, the beach is very narrow.

North Wildwood - Line 20+00
S17-S36 As Built Volume Change = -135.24 cuyds/ft.
S17-S36 Profile Volume Change = -133.97 cuyds/ft.; Shoreline Change = -349 ft
S35-S36 Profile Volume Change = -46.47 cuyds/ft.; Shoreline Change = -77 ft.



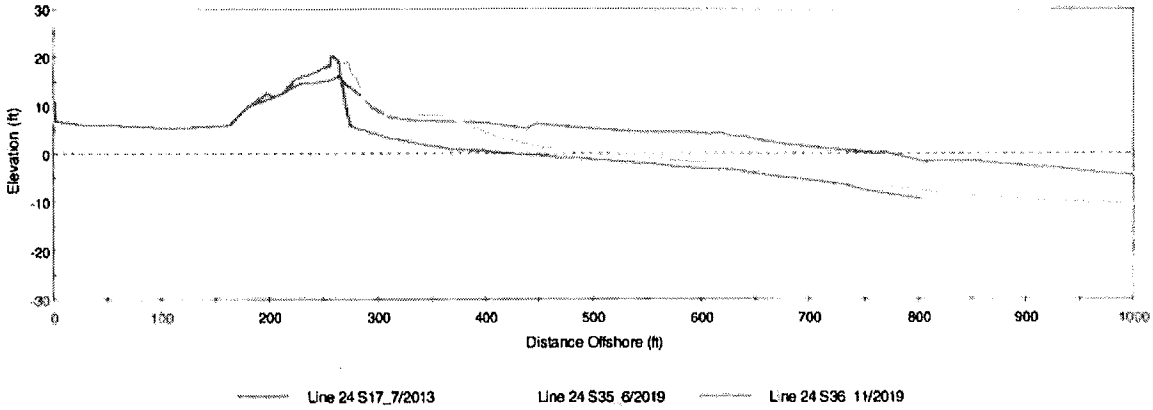
Line 20+00, is located 2,000 feet south of the jetty with similar configuration to line 18+00.

North Wildwood - Line 22+00
S17-S36 As Built Volume Change = -134.06 cuyds/ft.
S17-S36 Profile Volume Change = -134.95 cuyds/ft.; Shoreline Change = -321 ft.
S35-S36 Profile Volume Change = -48.14 cuyds/ft.; Shoreline Change = -73 ft.



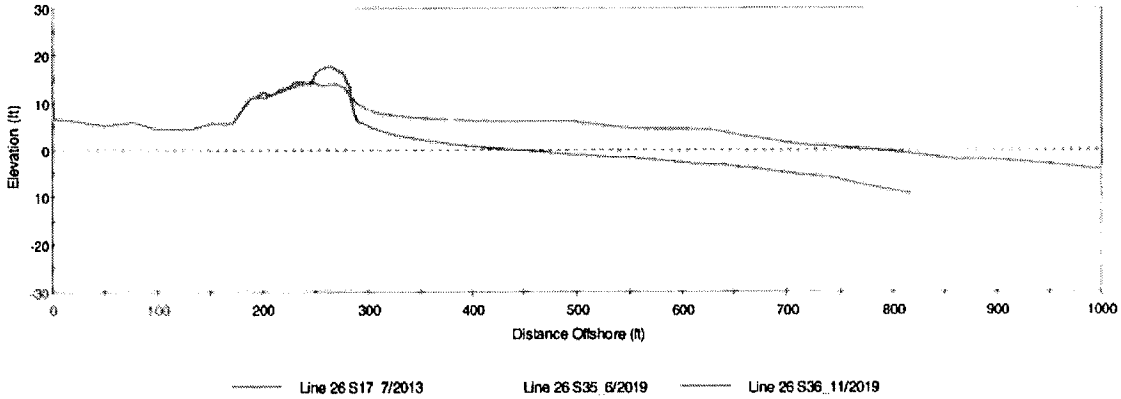
Line 22+00, has a slightly wider beach and about the same amount of dune remaining.

North Wildwood - Line 24+00
S17-S36 As Built Volume Change = -129.38 cuyds/ft.
S17-S36 Profile Volume Change = -124.49 cuyds/ft.; Shoreline Change = -345 ft.
S35-S36 Profile Volume Change = -45.85 cuyds/ft.; Shoreline Change = -78 ft.



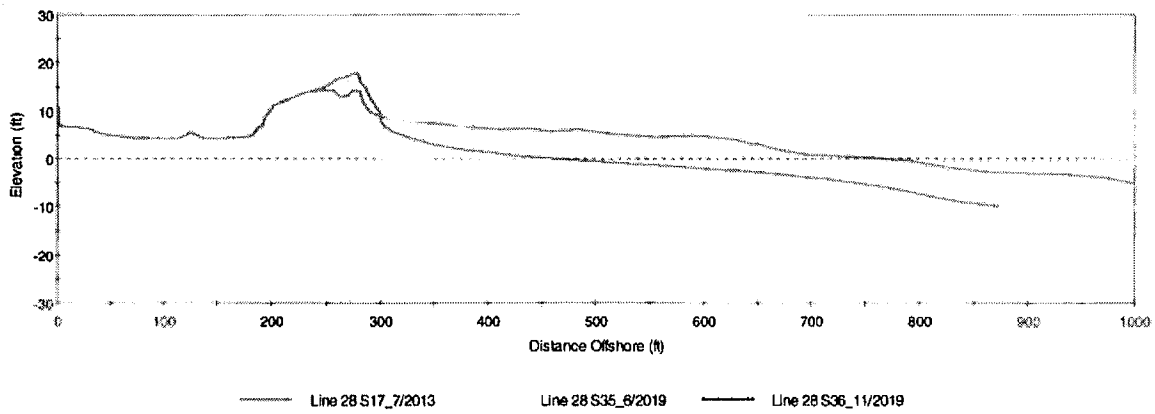
Line 24+00, has a severely truncated dune with a major scarp. The beach is narrow and of low elevation.

North Wildwood - Line 26+00
S17-S36 As Built Volume Change = -122.65 cuyds/ft.
S17-S36 Profile Volume Change = -117.81 cuyds/ft.; Shoreline Change = -344 ft.
S35-S36 Profile Volume Change = -40.01 cuyds/ft.; Shoreline Change = -84 ft.



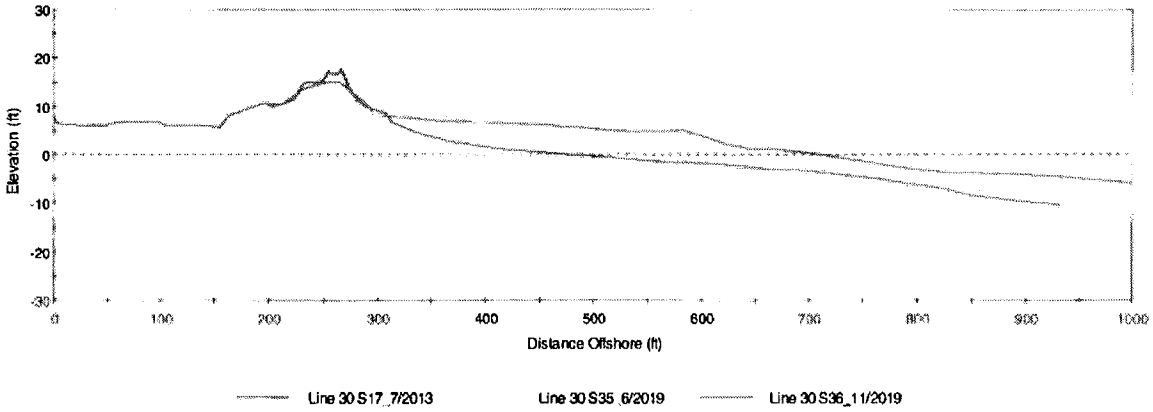
Line 26+00, is about where the dune remains as it was built in 2009 plus added sand as a result of a decade of wind deposits.

North Wildwood - Line 28+00
S17-S36 As Built Volume Change = -120.07 cuyds/ft.
S17- S36 Profile Volume Change = -114.35 cuyds/ft.; Shoreline Change = -304 ft.
S35- S36 profile Volume Change = -35.68 cuyds/ft.; Shoreline Change = -75 ft.



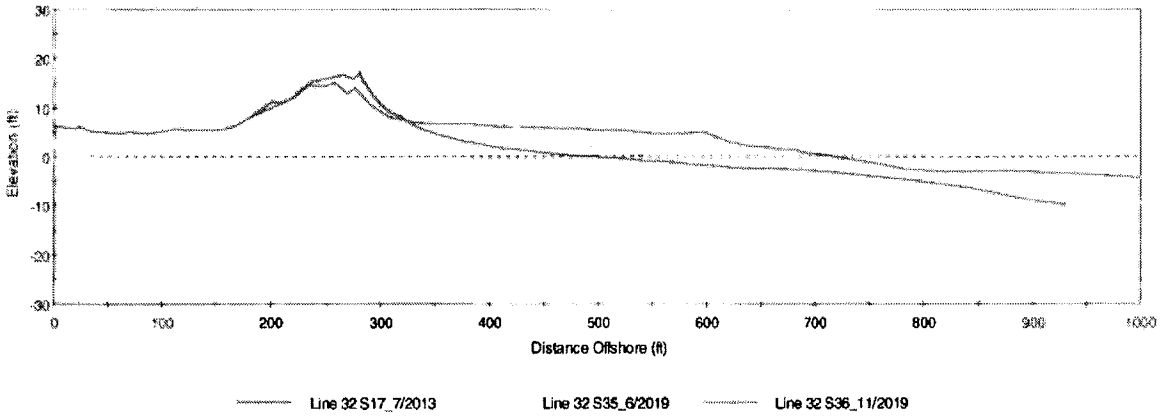
Line 28+00, shows dune accretion toward the beach, but a much lower beach elevation.

North Wildwood - Line 30
S17-S36 As Built Volume Change = -104.77 cuyds/ft.
S17-S36 Profile Volume Change = -102.67 cuyds/ft.; Shoreline Change = -235 ft.
S35-S36 Profile Volume Change = -34.24 cuyds/ft.; Shoreline Change = -70 ft.



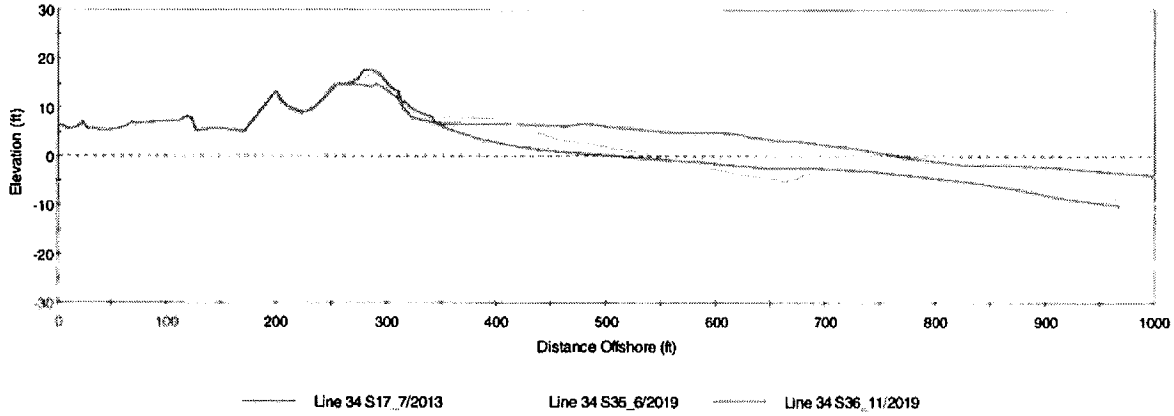
Line 30+00, is located 3,000 feet south of the jetty, and shows no dune losses, but a very narrow beach needing fill.

North Wildwood - Line 32+00
S17-S36 As Built Volume Change = -95.58 cuyds/ft.
S17-S36 Profile Volume Change = -88.40 cuyds/ft.; Shoreline Change = -227 ft.
S35-S36 Profile Volume Change = -24.60 cuyds/ft.; Shoreline Change = -51 ft.



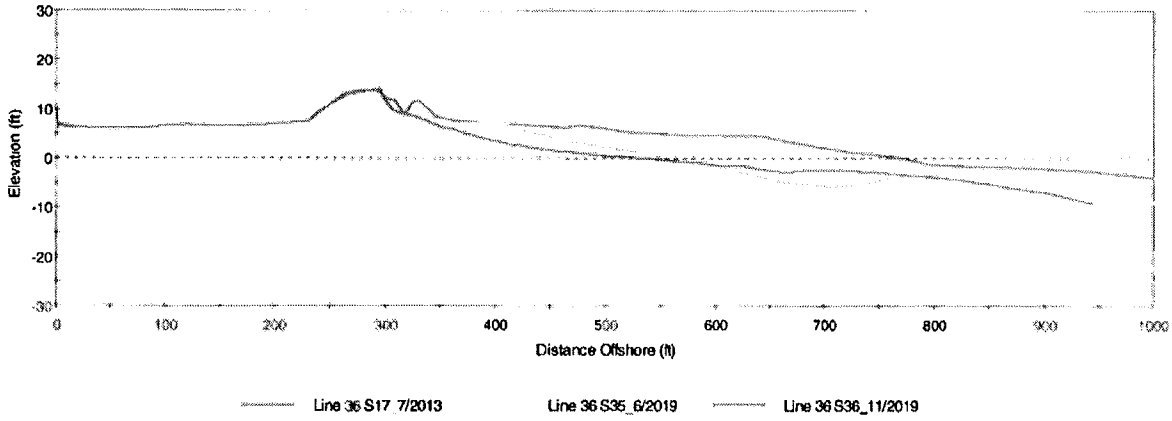
Line 32+00, also has a stable dune with added sand since 2013. The beach has progressively narrowed.

North Wildwood - Line 34+00
S17-S36 As Built Volume Change = -113.14 cuyds/ft.
S17-S36 Profile Volume Change = -108.02 cuyds/ft.; Shoreline Change = -256 ft.
S35-S36 Profile Volume Change = -12.10 cuyds/ft.; Shoreline Change = -32 ft.



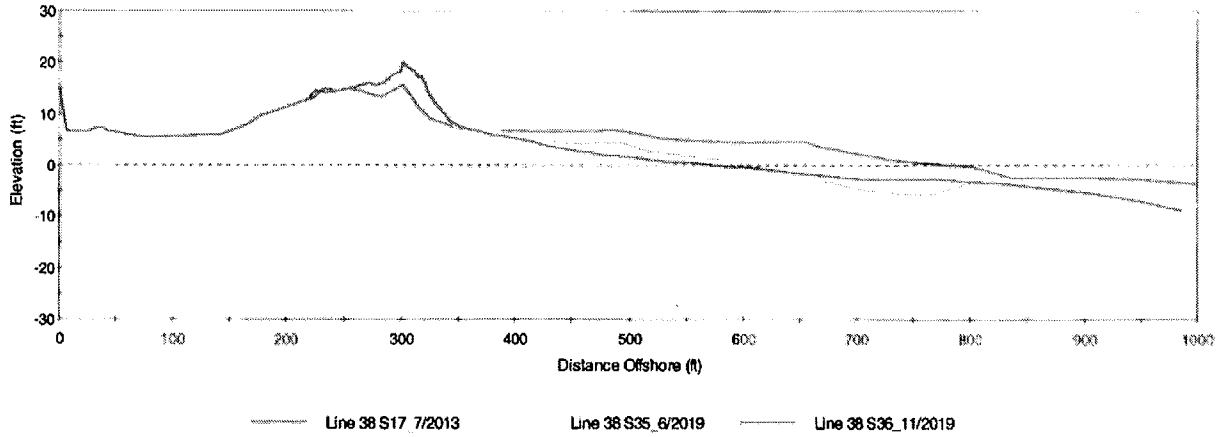
Line 34+00, shows a beach loss, but not as much since June 2019 as other locations.

North Wildwood - Line 36+00
S17-S36 As Built Volume Change = -103.29 cuyds/ft.
S17-S36 Profile Volume Change = -102.92 cuyds/ft.; Shoreline Change = -245 ft.
S35-S36 Profile Volume Change = -3.09 cuyds/ft.; Shoreline Change = -26 ft.



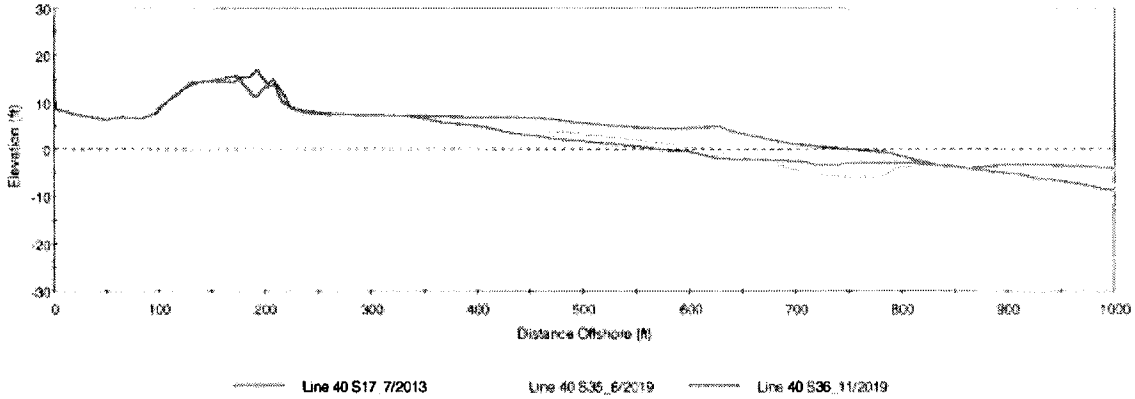
Line 36+00, appears to have lost small foredunes since July 2013 and has a narrower beach since June 2019.

North Wildwood - Line 38+00
S17-S36 As Built Volume Change = -85.52 cuyds/ft.
S17-S36 Profile Volume Change = -75.21 cuyds/ft.; Shoreline Change = -212 ft.
S35-S36 Profile Volume Change = 0.39 cuyds/ft.; Shoreline Change -29 ft.



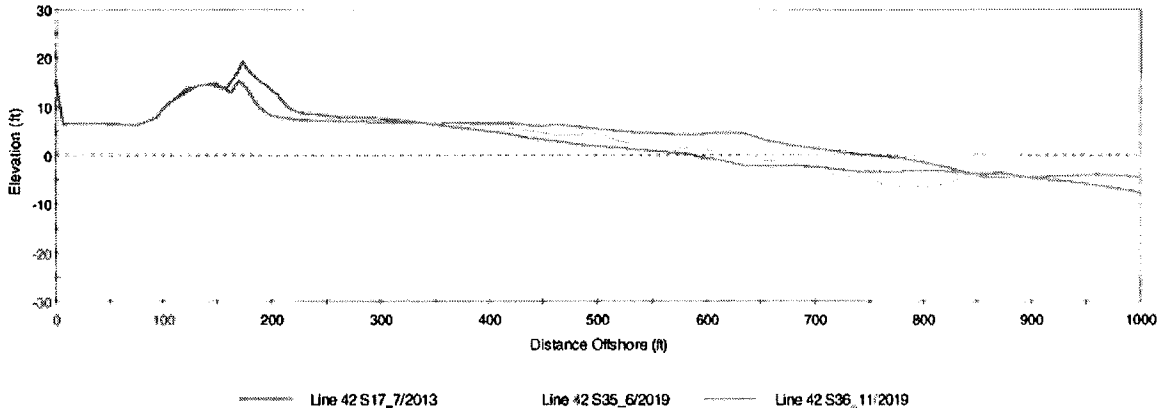
Line 38+00, saw dune growth since July 2013, with a beach similar to that present in June 2019.

North Wildwood - Line 40+00
S17-S36 As Built Volume Change = -62.06 cuyds/ft.
S17-S36 Profile Volume Change = -74.51 cuyds/ft.; Shoreline Change = -180 ft.
S35-S36 Profile Volume Change = -0.49 cuyds/ft.; Shoreline Change = -40 ft.



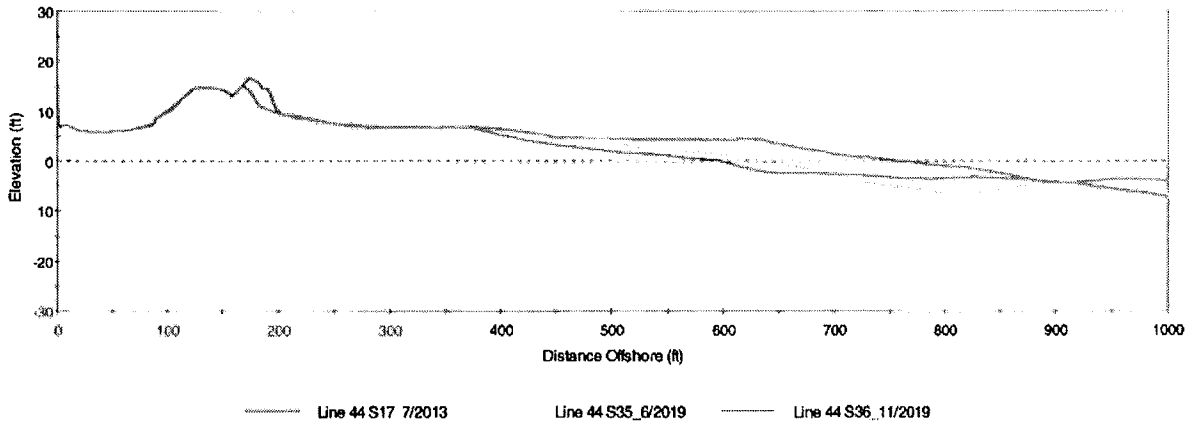
Line 40+00, is located 4,000 feet south of the jetty and closing in on the three piers. Beach changes in 2019 were minimal.

North Wildwood - Line 42+00
S17-S36 As Built Volume Change = -58.83 cuyds/ft.
S17-S36 Profile Volume Change = -53.43 cuyds/ft.; Shorelimne Change = -161 ft.
S35-S36 Profile Volume Change = -2.13 cuyds/ft.; Shoreline Change = -41 ft.



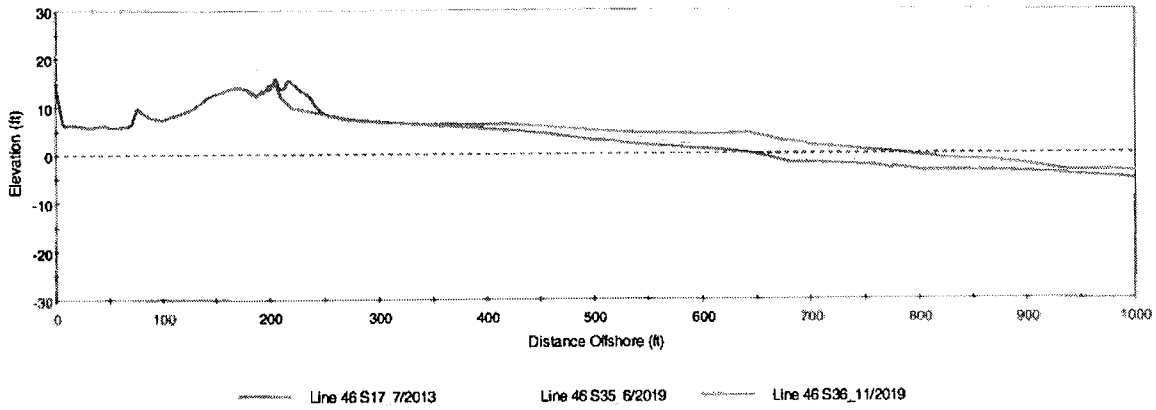
Line 42+00, also developed a more robust dune since 2013 and had modest beach changes as well.

North Wildwood - Line 44+00
S17-S36 As Built Volume Change = -55.99 cuyds/ft.
S17-S36 Profile Volume Change = -71.01 cuyds/ft.; Shoreline Change = -165 ft.
S35-S36 Profile Volume Change = -2.23 cuyds/ft.; Shoreline Change = -39 ft.



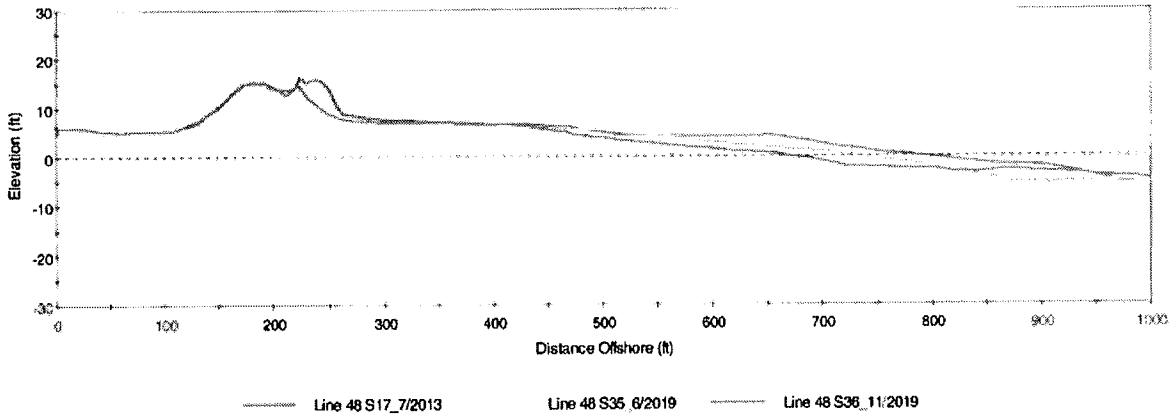
Line 44+00, added foredune sand and saw modest beach changes since 2013.

North Wildwood - Line 46+00
S17-S36 As Built Volume Change = -69.99 cuyds/ft.
S17-S36 Profile Volume Change = -65.12 cuyds/ft.; Shoreline Change = -140
S35-S36 Profile Volume Change = -11.21 cu yds/ft.; Shoreline Change = -22 ft.



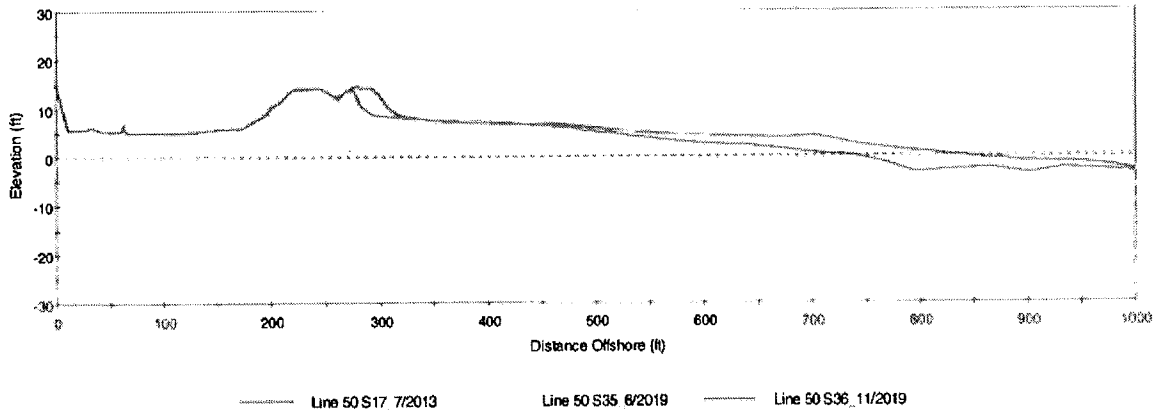
Line 46+00, is similar to line 44+00 in that sand appears to be arriving about as fast as it leaves for Wildwood.

North Wildwood - Line 48+00
S17-S36 As Built Volume Change = -41.55 cuyds/ft.
S17-S36 Profile Volume Change = -41.18 cuyds/ft.; Shoreline Change = -122 ft.
S35-S36 Profile Volume Change = -11.68 cuyds/ft.; Shoreline Change = -60 ft.



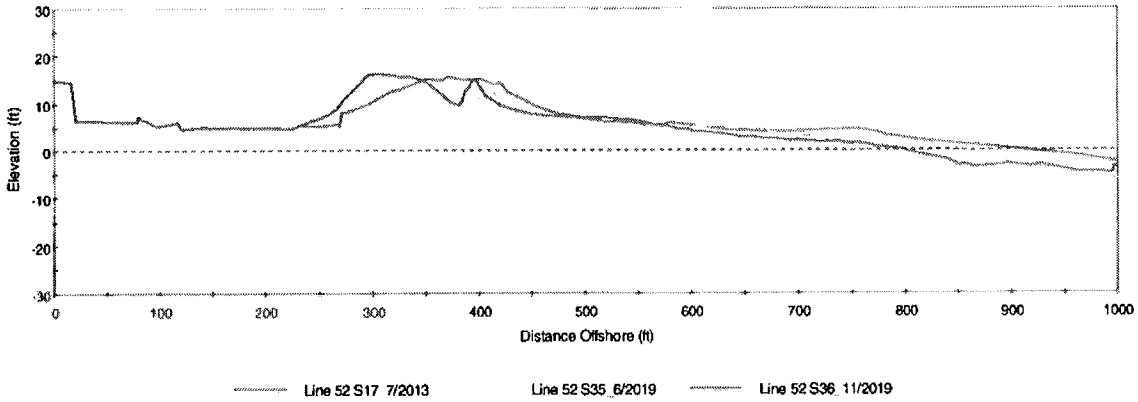
Line 48+00, Similar conditions to the two previous cross sections.

North Wildwood - Line 50+00
S17-S36 As Built Volume Change = -47.19 cuyds/ft
S17-S36 Profile Volume Change = -43.18 cuyds/ft.; Shoreline Change = -67 ft.
S35-S36 Profile Volume Change = -9.09 cuyds/ft.; Shoreline Change = -37 ft.



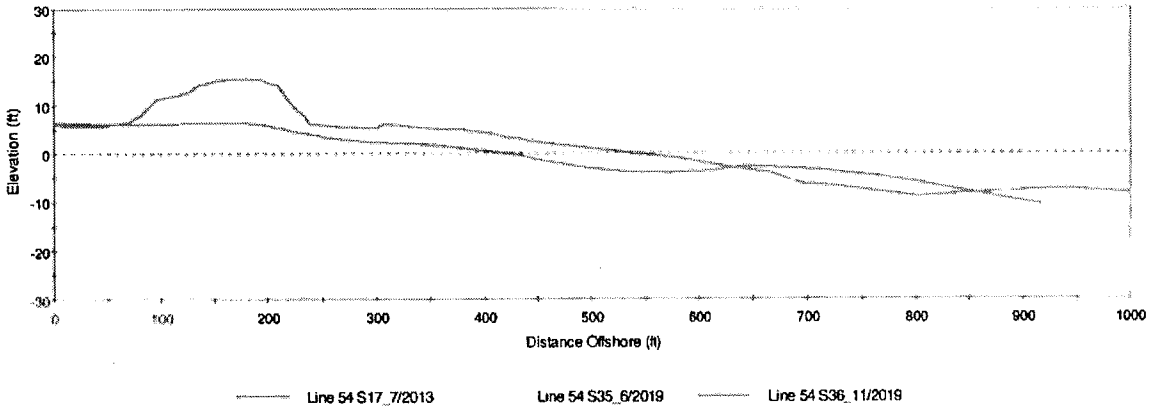
Line 50+00, located 5,000 feet south of the jetty and well within the zone of stability because sand lost to the north is added here.

North Wildwood - Line 52+00
S17-S36 As Built Volume Change = -54.49 cuyds/ft.
S17-S36 Profile Volume Change = -30.76 cuyds/ft.; Shoreline Change = -113 ft.
S35-S36 Profile Volume Change = -3.97 cuyds/ft.; Shoreline Change = -48 ft.



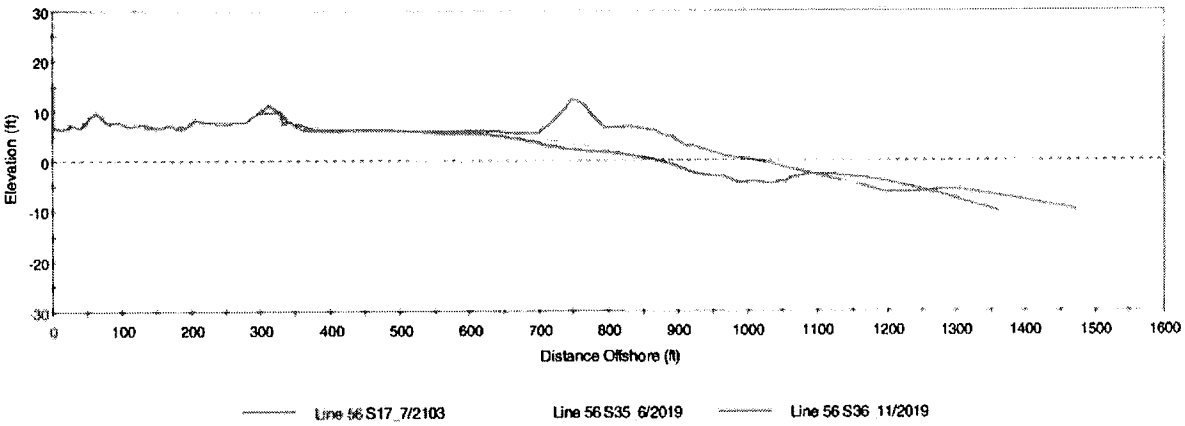
Line 52+00, is the last cross section with a dune remaining from the 2009 project going south.

North Wildwood - Line 54+00
S17-S36 As Built Volume Change = -87.73 cuyds/ft.
S17-S36 Profile Volume Change = -71.17 cuyds/ft.; Shoreline Change = -119 ft.
S35-S36 Profile Volume Change = -1.48 cuyds/ft.; -20 ft.



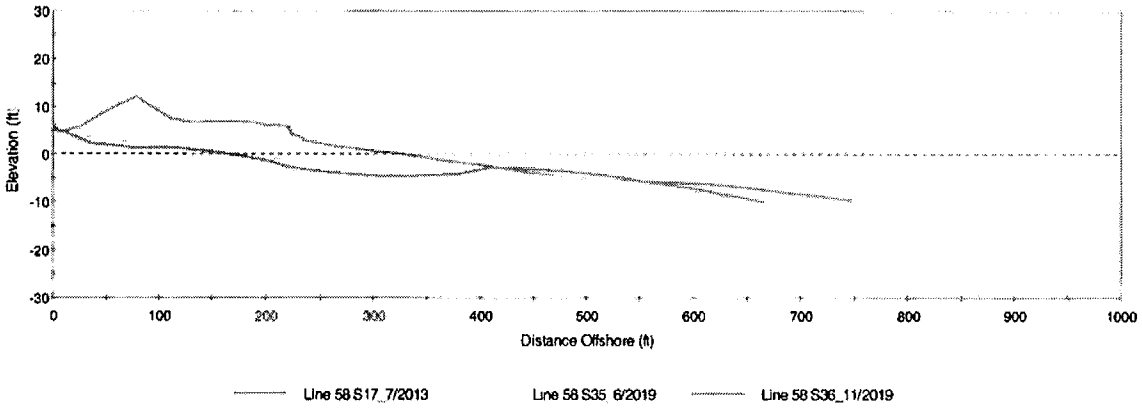
Line 54+00, The 2013 dune was lost because it was too close to the ocean at the 3 piers. The beach is modestly lower.

North Wildwood - Line 56+00
S17-S36 As Built Volume Change = -77.75 cuyds/ft.
S17-S36 Profile Volume Change = -75.52 cuyds.ft.; Shoreline Change = -138 ft.
S35-S36 Profile Volume Change = 1.04 cuyds/ft.; Shoreline Change = -39 ft.



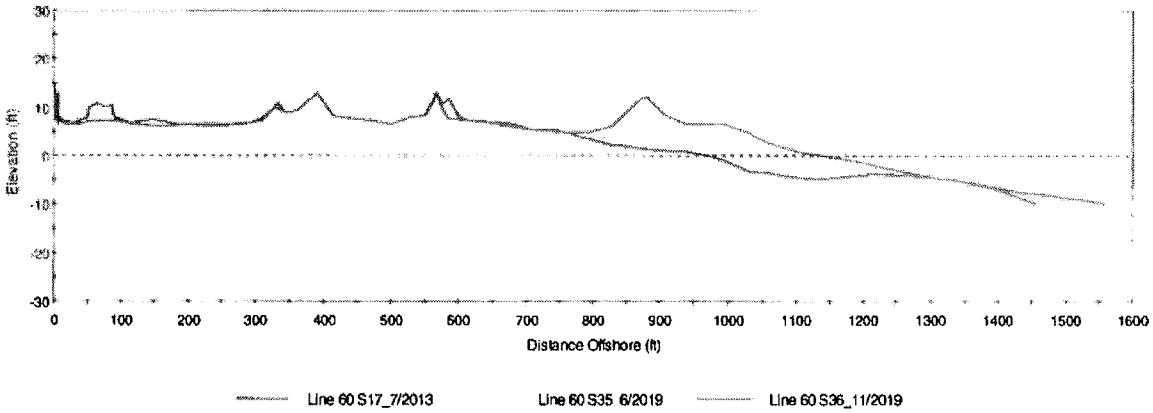
Line 56+00, shows both the original 2009 dune position on the beach as well as the re-located dune closer to the boardwalk.

North Wildwood - Line 58+00
S17-S36 As Built Volume Change = -82.85 cuyds/ft.
S17-S36 Profile Volume Change = -84.76 cuyds/ft.; Shoreline Change = -160 ft.
S35-S36 Profile Volume Change = -1.89 cuyds/ft.; Shoreline Change = -5 ft.



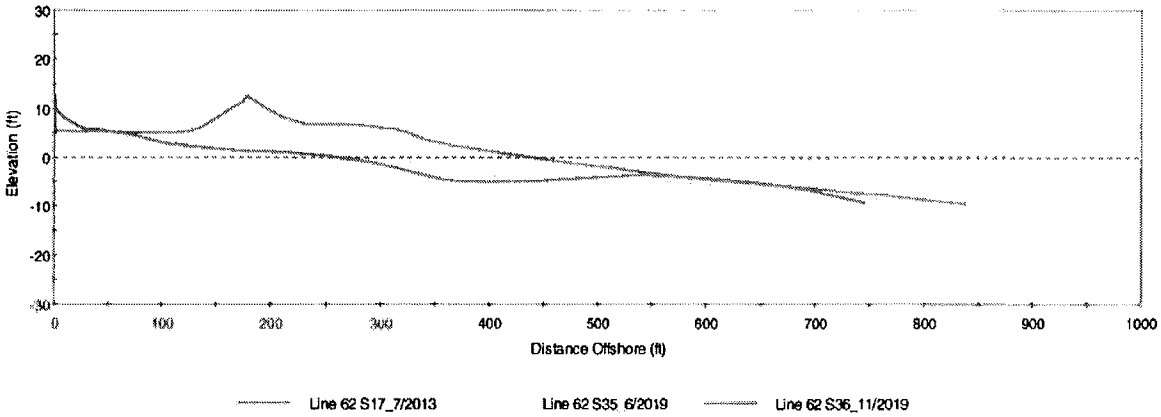
Line 58+00, had a less distant start point for surveys, and shows the dune in 2013 seaward of the timber pier.

North Wildwood - Line 60+00
S17-S36 As Built Volume Change = -95.94 cuyds/ft.
S17-S36 Profile Volume Change = -86.45 cuyds/ft.; Shoreline Change = -174 ft.
S35-S36 Profile Volume Change = -1.94 cuyds/ft.; Shoreline Change = 4 ft.



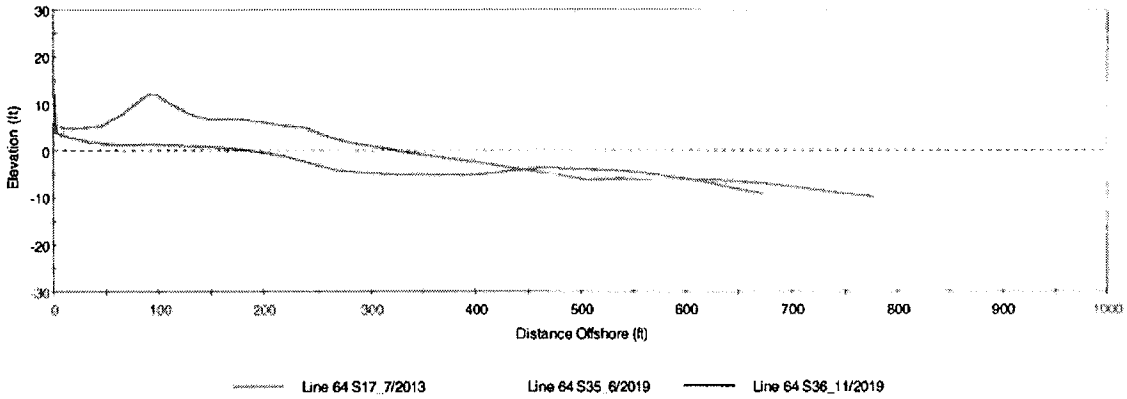
Line 60+00, located 6.000 feet south of the jetty and among the three piers. The 2009 dune was replaced after 2013.

North Wildwood - Line 62+00
S17-S36 As Built Volume Change = -95.21 cuyds/ft.
S17-S36 Profile Volume Change = -94.20 cuyds/ft.; Shoreline Change = -176 ft.
S35-S36 Profile Volume Change = 2.40 cuyds/ft.; Shoreline Change = 14 ft.



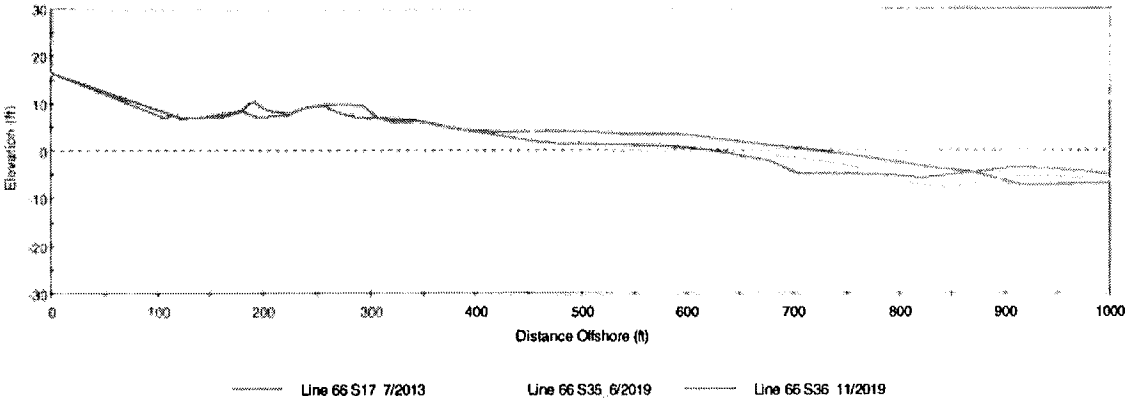
Line 62+00, shows the 2009 dune after its reconstruction following Sandy, and its subsequent loss by 2019.

North Wildwood - Line 64+00
S17-S36 As Built Volume Change = -88.46 cuyds/ft.
S17-S36 Profile Volume Change = -83.47 cuyds/ft.; Shoreline Change = -138 ft.
S35-S36 Profile Volume Change = 5.43 cuyds/ft.; Shoreline Change = 49 ft.



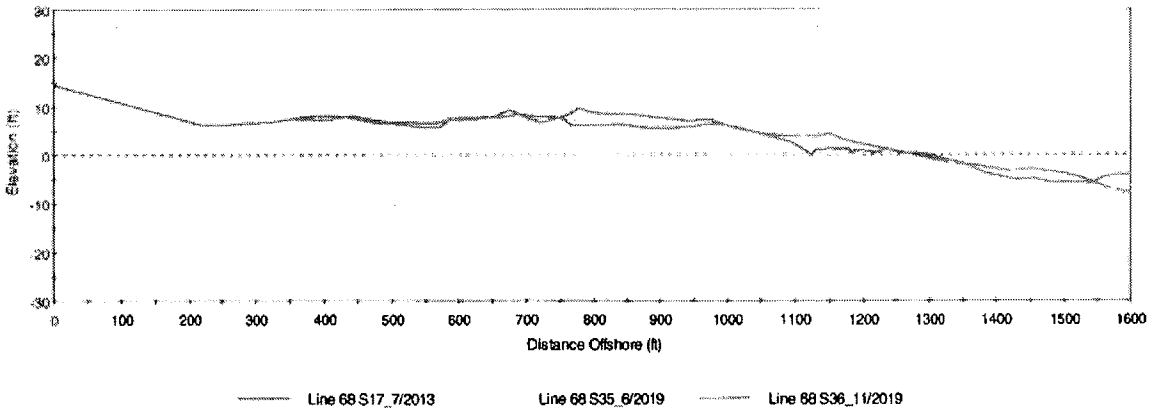
Line 64+00, also shows the loss of the 2009 position dune where it was in front of Morey's pier.

North Wildwood - Line 66+00
S17-S36 As Built Volume Change = -47.0 cuyds/ft.
S17-S36 Profile Volume Change = -33.88 cuyds/ft.; Shoreline Change = -97 ft.
S35-S36 Profile Volume Change = -0.08 cuyds/ft.; Shoreline Change = -16 ft.



Line 66+00, is south of Morey's pier and shows minor change as the Wildwood boundary is approached.

North Wildwood - Line 68+00
S17-S36 As Built Volume Change = -35.72 cuyds/ft.
S17-S36 Profile Volume Change = -22.88 cuyds/ft.; Shoreline Change = 16 ft.
S35-S36 Profile Volume Change = 7.50 cuyds/ft.; Shoreline Change = 65 ft.



Line 68+00, is the last in the current series of surveys and is 400 feet south of Juniper Avenue and has minimal changes.

“Z”

Ronald Simone

From: Patrick Rosenello <Prosenello@NorthWildwood.Com>
Sent: Thursday, January 09, 2020 8:54 AM
To: Christopher Constantino
Cc: Ronald Simone
Subject: Seawall Projects

Chris:

Happy New Year. Without giving you too much detail about our tale of woo's, North Wildwood is spending an exorbitant amount of money on shore protection projects. In addition to the $1.5 million a year for the past several years for sand back pass, we have also spent several million on ocean front bulkheads, etc. As you know, we now have the pump station, seawall repair, seawall extension and probably the biggest sand back pass needed to date.

I recognize and appreciate the financial participation by the State in the seawall repair project. It would be of tremendous help to our current capital and financial situation if the State could look at helping us in our ongoing sand back pass projects as well. My rationale for this is that had we met the original time lines for the island-wide shore protection project, North Wildwood would be paying our portion of that project. Instead, we have now spent several million dollars on bulkheads and back pass and will continue to spend on those type of projects until the island-wide project comes to fruition. All this without any financial participation by the Federal or State Governments. I recognize this is not anyones fault, but it is fundamentally unfair that North Wildwood is forced to bear the shore protection burden alone, while every other municipality in the State of New Jersey is getting assistance from the Federal and State level for their shore protection projects.

Your prompt consideration and passing this up the chain of command is appreciated. I am 100% certain that I can get political support for this request from both State Senate President Steve Sweeney, as well as our State Senator and Assemblymen. I also recognize, however, that sometimes that support is not the most efficient means of getting things like this accomplished.

Your consideration and recommendation for accomplishing the above request is appreciated.

Sincerely,

Patrick Rosenello

Patrick Rosenello, Mayor
City of North Wildwood
901 Atlantic Avenue
North Wildwood, New Jersey 08260
P: 609-522-6464
E: Prosenello@NorthWildwood.com

“AA”

Ronald Simone

From: Ronald Simone <rsimone@northwildwood.com>
Sent: Friday, January 17, 2020 11:29 AM
To: Dave.rosenblatt@dep.nj.gov
Subject: UPenn Water Summit

Good morning Dave,

It was a pleasure meeting you yesterday at the 1st Annual Water Summit at the University of Pennsylvania, Houston Hall. I found your presentation and comments throughout the Summit to be informative, and I look forward to working with you on current and future Resiliency projects including the City of North Wildwood.

As a potential reference for your Climate Change Resiliency Plan, I wanted to share with you a dropbox folder containing drone footage in chronological order of North Wildwood's beach at various locations/dates/times taken during the later summer/fall season, 2019. The drone footage of North Wildwood does a great job of visually depicting the accelerated rate at which one of our State's beaches erodes due to recurring major coastal storms: https://www.dropbox.com/sh/k6ftctqq4vdiggq/AAAXhKkYGTe17OAERJUrEw53a?dl=0. We also have corresponding survey data to put a number to the pictures so to speak, as to the total loss of material in cubic yards. At this point in time, the City of North Wildwood has lost twelve (12) beach access-ways and a large portion of our dune system. While we anxiously wait in anticipation for the USACE Hereford Inlet to Cape May Inlet Shore Protection Project, this year the City hopes to rebuild what we can via our sand-back-pass efforts with our Department of Public Works, which has its limitations. I will be taking additional drone footage/pictures of the City's progress to rebuild what we can, and I would be happy to share additional pictures/footage/survey data that may be able to assist you with the State's Resiliency Plan.

If for any reason I can be of any assistance, please don't hesitate to reach out to me by phone or email. Again, it was a pleasure meeting you, and I look forward to working with you in my capacity as the City Administrator of the City of North Wildwood. Have a great weekend!

Kind regards,
Ron

Ronald Simone, MPA
City Administrator
City of North Wildwood
(p) (609) 522-2030 EXT: 1260
(c) (609) 600-7766
(e) rsimone@northwildwood.com

“BB”

DEPARTMENT OF THE ARMY
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS
WANAMAKER BUILDING, 100 PENN SQUARE EAST
PHILADELPHIA, PENNSYLVANIA 19107-3390

January 17, 2020

The Honorable Jefferson Van Drew
Representative in Congress
Second District of New Jersey
5914 Main Street, Suite 103
Mays Landing, NJ 08330

Dear Congressman Van Drew,

Thank you for your December 6, 2019 letter requesting that the existing Hereford Inlet to Cape May Inlet Shore Protection Project be revised to include Hereford Inlet as the project borrow source. As you are aware, the Philadelphia District and the project's Non-Federal Sponsor, the New Jersey Department of Environmental Protection, are in the design stage to begin construction of the beachfill project by way of a sand back-pass operation. The current estimate for the start of construction is in 2022.

The Philadelphia District is aware of the severe nature of storm damage experienced in North Wildwood. However, the reason this beach has not received periodic nourishments has not been due to Coastal Barrier Resource Act (CBRA) restrictions, nor to Hereford Inlet being the only borrow source available. During the formulation of this project, multiple borrow sources were evaluated for use during construction — including Hereford Inlet, as this was prior to the CBRA zone restriction. Additionally, while the U.S. Army Corps of Engineers has been restricted from dredging the inlet in the past, it has been and remains available for use as a borrow source for State and local municipality projects. However, the reason that Hereford Inlet and other offshore areas were eliminated as borrow sources is that they were not found to be the lowest net cost alternative and did not achieve the project's additional goal of reducing outfall maintenance in Wildwood and Wildwood Crest.

My office has been in contact with NJDEP to discuss the timeframe to complete the project as currently designed, as well as to discuss the possibility of adding Hereford Inlet as a borrow source. We believe this addition would require a reformulation of the approved project, which could take approximately two more years; and which could result in a higher cost project that does not meet all the goals of the existing project. In fact, I just met with NJDEP Commissioner Catherine McCabe on January 13, at which time we discussed the current status of the project as well as the use of Hereford Inlet in North Wildwood and the Commissioner appreciates that a change in design at this stage could result in delay and possible cost increases.

As a result, the Philadelphia District has concluded that the best course of action is to continue with the current project as formulated, designed, and authorized.

If you or your staff would like to discuss this issue further or if you have any additional questions, please feel free to call me at 215-656-6501, or my Congressional Liaison, Ed Voigt, at 215-656-6515.

Sincerely,

David C. Park
Lieutenant Colonel, Corps of Engineers
District Commander

“CC”

Ronald Simone

From: Constantino, Christopher <Christopher.Constantino@dep.nj.gov>
Sent: Thursday, March 05, 2020 12:14 PM
To: Mayor Patrick Rosenello (prosenello@northwildwood.com)
Cc: Ronald Simone; 'jim verna'; _Petrella Jr., Ralph; Doyle, Erick; Dixon, William; Lewis, Michael; Dornisch, Vanessa; Bates, Sarah
Subject: 03/05/2020 - Proposed Oceanfront Seawall Reconstruction and Extension update
Attachments: 20200304095759910.pdf

Mayor,

As you are aware, the DCE approved a shore protection grant for the reconstruction and extension of the oceanfront seawall between 2"d Avenue and 5"' Avenue; DCE's share was to not exceed $6,767,212.50, which was estimated to be 75% of the total construction costs. Please find attached the letter of comments and concerns that we'd like to address with the City to be able to move this project forward. We anticipate further coordinate with the City and Van Note Harvey, however, please feel free to reach out to us at any time to discuss.

Thank you for your patience. We look forward to moving forward on this project with the City of North Wildwood.

Christopher Constantino, Environmental Specialist 3
NJDEP – Division of Coastal Engineering (DCE)
1510 Hooper Ave., Suite 140
Toms River, NJ 08753
christopher.constantino@dep.nj.gov
732-255-0767
609-575-6969 (cell)

Reduce*Reuse*Recycle

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Climate and Flood Resilience
Division of Coastal Engineering
1510 Hooper Ave., Suite 140
Toms River, N. J. 08753
Telephone: 732-255-0767 Fax: 732-255-0774

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

CATHERINE R. McCABE
Commissioner

March 3, 2020

Patrick Rosenello
City of North Wildwood, Mayor
901 Atlantic Avenue
North Wildwood, NJ 08260

1. increase elevation of the wall
2. increase size of armor stone
3. Min. of 3-armor stones on crest
4. 2 layer armor capstone
5.

RE: Preliminary Design Review Response
DCE Project # 4296 18 - Proposed Oceanfront Seawall Reconstruction and Extension
City of North Wildwood
Cape May County, New Jersey

Dear Mayor Rosenello:

As you are aware, the New Jersey Department of Environmental Protection (NJDEP) Division of Coastal Engineering (DCE) approved a shore protection grant for the reconstruction and extension of the oceanfront seawall between 2nd Avenue and 5th Avenue. DCE's approval was to not exceed $6,767,212.50, which was estimated to be 75% of the total construction costs. Since that approval, DCE has periodically coordinated with your office and the City's engineers regarding the scope and the design elements of the proposed project. Due to the complex environment at this location and to the proximity to two U.S. Army Corps of Engineers (USACE) projects, DCE sought technical design input from both USACE and Stevens Institute of Technology - New Jersey Coastal Protection Technical Assistance Service (NJCPTAS).

As a result of this technical input and DCE's internal review, DCE suggests North Wildwood consider several design elements in the final design to account for sea level rise and the dynamics of the wave and tidal climate. Additionally, based upon experience with recently completed shore protection projects including large stone, additional constructability comments were provided by DCE and USACE. DCE requests that the City and its professionals consider the following when working to develop final plans for this project.

1. Recommend the design to account for future sea level rise. It is recommended that the elevation of the wall be increased to account for sea level rise and the resultant wave runup that may result as well as toe depth to account for increased scour.

2. Consider increasing the size of the armor stone to account for the 100-year still wave elevation plus wave heights as well as sea level rise.

3. Ensure a minimum of three armor stones are placed across the crest of the structure to minimize the potential for movement. This design criteria mimics the USACE seawall design manual for the minimal beach condition.

4. Design a two-layer armor capstone build throughout, including the toe of the structure, due to the oceanfront location and minimal beach. The present design does not depict a substantial toe.

5. Recommends the City provide design calculations for anticipated scour along with base assumptions. To mitigate the potential for undermining and slope failure given the complexities related to the proximity of the inlet, the spur groin and the outfall pipe, DCE recommends placing the bottom of the toe armor stones below the maximum anticipated scour.

6. Provide more detail related to the design elements of the mat stone and the marine mattresses. There are concerns with relying on a single layer of stone and the use of geotextile materials where the mat stone is proposed. Additionally, there are concerns with the use of marine mattresses and the costs related to marine mattresses.

7. DCE does not support reinforcing the existing seawall between 2nd and 3rd Avenues by solely adding capstone on top of the existing structure and extending the toe down to the appropriate depth. It is recommended that the existing revetment be partially dismantled, any suitable stone be rehandled and reused, and the remainder of the section be constructed with new, appropriately sized stone.

8. There are concerns that encasing the outfall in concrete within the seawall may have an impact on the design of the seawall at that location. Additionally, there are concerns with the integrity of the existing outfall and its ability to withstand the load of this concrete encasement and any settlement or impacts from construction. Further details must be provided as to how to achieve final design parameters at the pipe due to its location and orientation posing issues with constructability.

9. Provide a detail of the proposed tie-in for the spur groin at the corner of JFK Boulevard. Concerns were raised regarding this portion of the scope of work and the potential to destabilize the USACE seawall on the inlet facing side of this corner.

10. The pavilions and the more-recent, upland concrete improvements to the existing structure may impact constructability of the seawall in those locations. DCE requests the City to revisit those locations and consider the potential of removing the pavilion structures during construction.

No

11. When revising the plans, DCE requires the stationing be consistent throughout the entire plans set. Also, please ensure that all elevations are in the NAVD88 datum and that all match lines between pages line up correctly. → Was it not already

?

Based on the recommended design modifications, DCE believes the potential costs related to constructing a structure that will meet all the concerns referenced above and provide a more resilient level of protection will permit building the seawall within the originally agreed upon limits of 2nd Avenue to 5th Avenue. DCE anticipates additional coordination between the City and DCE will be required as a result of this letter. Please contact Michael Lewis, DCE Project Manager, at (732) 255-0767, or via email at Michael.lewis@dep.nj.gov for future coordination efforts.

Sincerely,

Erick Doyle, PE
Manager, Division of Coastal Engineering

C: Ron Simone, City Administrator, City of North Wildwood
Ralph Petrella, Engineer, City of North Wildwood
Jim Verna, Engineer, City of North Wildwood
William Dixon, Director, DCE
Christopher Constantino, Principal Environmental Specialist, DCE
Michael Lewis, Environmental Engineer, DCE

“DD”

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Land Use Regulation
Mail Code 501-02A
P.O. Box 420
Trenton, New Jersey 08625-0420
www.nj.gov/dep/landuse

CATHERINE R. McCABE
Commissioner

May 6, 2020

Mr. Ronald Simone, City Administrator
City of North Wildwood
901 Atlantic Avenue
City of North Wildwood, NJ 08260

RE: Deficiency Letter
File and Activity No.: 0507-03-0009.4; LUP200001
Applicant: City of North Wildwood
Project: Lou Booth Amphitheatre at Hereford Inlet Park Improvements & 22nd Ave. Beach Access Improvements
Block: Part of 317.03, 291.01 Lot: 1, 1
Municipality: City of North Wildwood
County: Cape May

Dear Mr. Simone:

The Division of Land Use Regulation (Division) has received the above-referenced application for improvements to the Lou Booth Amphitheatre at Hereford Inlet Park and improvements to beach access adjacent to 22nd avenue in the City of North Wildwood, Cape County. Based upon the materials submitted by your agent Mr. Ralph Petrella of Van-Note Harvey Associates Inc., the following additional information and revisions to the corresponding site plans are required for the Division to deem the application technically complete:

1. The Division has determined that the 10-foot clam shell path from the Amphitheatre to Surf Avenue was installed through an existing dune in 1995 without the required CAFRA permit authorization. In addition, the existing concrete path and stairs that are also located within the dunes do not appear to have been previously authorized through a CAFRA permit. Therefore, these activities do not appear to be in compliance with N.J.A.C. 7:7-9.16 (Dunes). To move forward with the pending application, please demonstrate that the existing clam shell path, concrete path and stairs were previously authorized through a CAFRA permit or amend the pending application to include the following activities:

    a. The Division recommends the construction of a dune fence along the outer edge of the clam shell walkway to allow natural restoration of the dune.
    b. The Division recommends removing the concrete structure over the dune and the restoration of the dune through plantings and dune fencing.

2. The Division has determined that the "composite walkway/bike path" and the "shower platform and beach shower" connecting to the proposed "8' wide bike/pedestrian path extension" were not authorized by a CAFRA permit. To move forward with the pending application, please remove and/or legalize these structures pursuant to N.J.A.C. 7:7. The submitted CZM Rules compliance statement will need to be updated if you choose to add these structures to the pending application to demonstrate that there are in compliance with the CZM Rules.

3. The proposed project includes the submission of a Freshwater Wetlands GP No. 6A, however, a FWW permitting plan was not submitted with the application. Please submit a FWW permitting plan and include the proposed FWW transition area disturbance amounts on the plan.

4. Please provide a details sheet which depicts all proposed structures including but not limited to fences, bike/pedestrian path, composite path, steps, amphitheater, etc.

5. The proposed walkways are within a coastal A or V Zone. Therefore, please submit structural calculations for the proposed walkways.

In addition to the above, the following items must be addressed before the Division can approve this project:

1. Please revise the plan entitled, "CONCEPTUAL PLAN OF LOU BOOTH AMPHITHEATRE AT HEREFORD INLET PARK PORTION OF BLOCK 317.03 LOT 1 CITY OF NORTH WILDWOOD CAPE MAY COUNTY, N.J." to include a legend for all the proposed construction materials associated with the proposed paths. Please include the "dune fencing" line and the "split rail fencing" line in the legend.
2. Please provide a landscape plan for the proposed project.
3. Please address and demonstrate compliance with 7:7-16.11 (Buffers and compatibility of uses).
4. Please address and demonstrate compliance with 7:7-16.12 (Traffic).
5. Please provide an electronic copy of the permit and permit plans of the previously approved activities on the subject site, specifically for file number 0507-96-0005.1.
6. Please be advised that adding the aforementioned activities that were not previously authorized by a CAFRA permit to the existing application may trigger a stormwater management review. Compliance with the Stormwater Rule, N.J.A.C 7:8 will be required if the project meets the definition of a major development.

Please submit a pdf of the revised site plans within **thirty days** of receipt of this letter. All site plans must be electronically signed and sealed by a licensed professional engineer, architect, or land surveyor and include a revision date. Please note that the application is currently under review by the Division's Endangered and Threatened Species Unit and the State Historic Preservation Office and they may require additional information at a later date.

If you have any questions regarding this letter, please contact Natalie Young in writing at the above address, by e-mail at Natalie.Young@dep.nj.gov or by telephone at (609) 984-6216. Please reference the Division's file number in all communication.

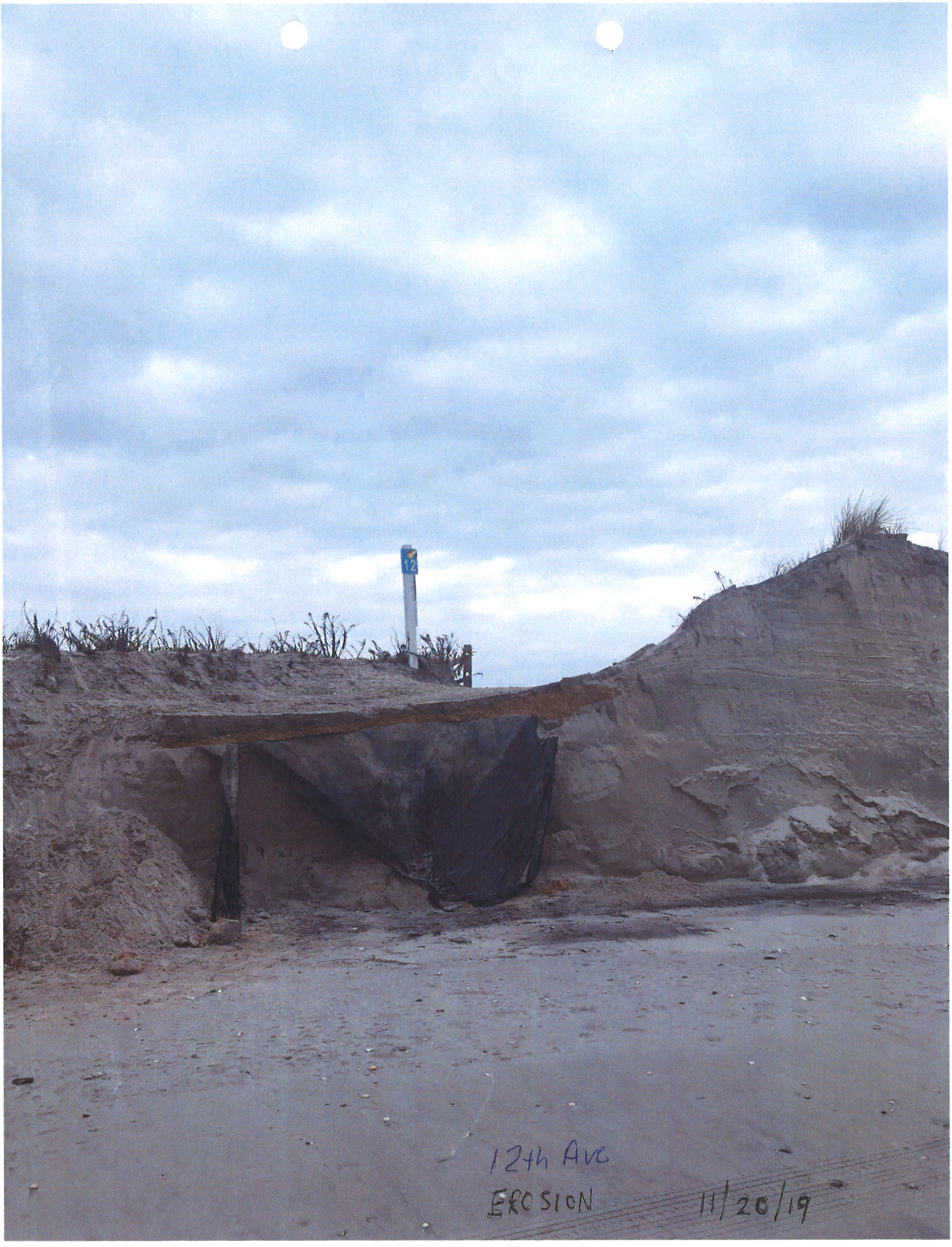
Sincerely,

Christopher Jones

Christopher Jones, Manager
Bureau of Urban Growth and Redevelopment
Division of Land Use Regulation

c: Mr. Ralph Petrella of Van-Note Harvey Associates Inc., Agent
NJDEP, BCLUCE, Toms River Office c/o Ms. Danielle Campanella

12th Ave Looking South
EROSION 11/17/19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12th Ave
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9th Ave
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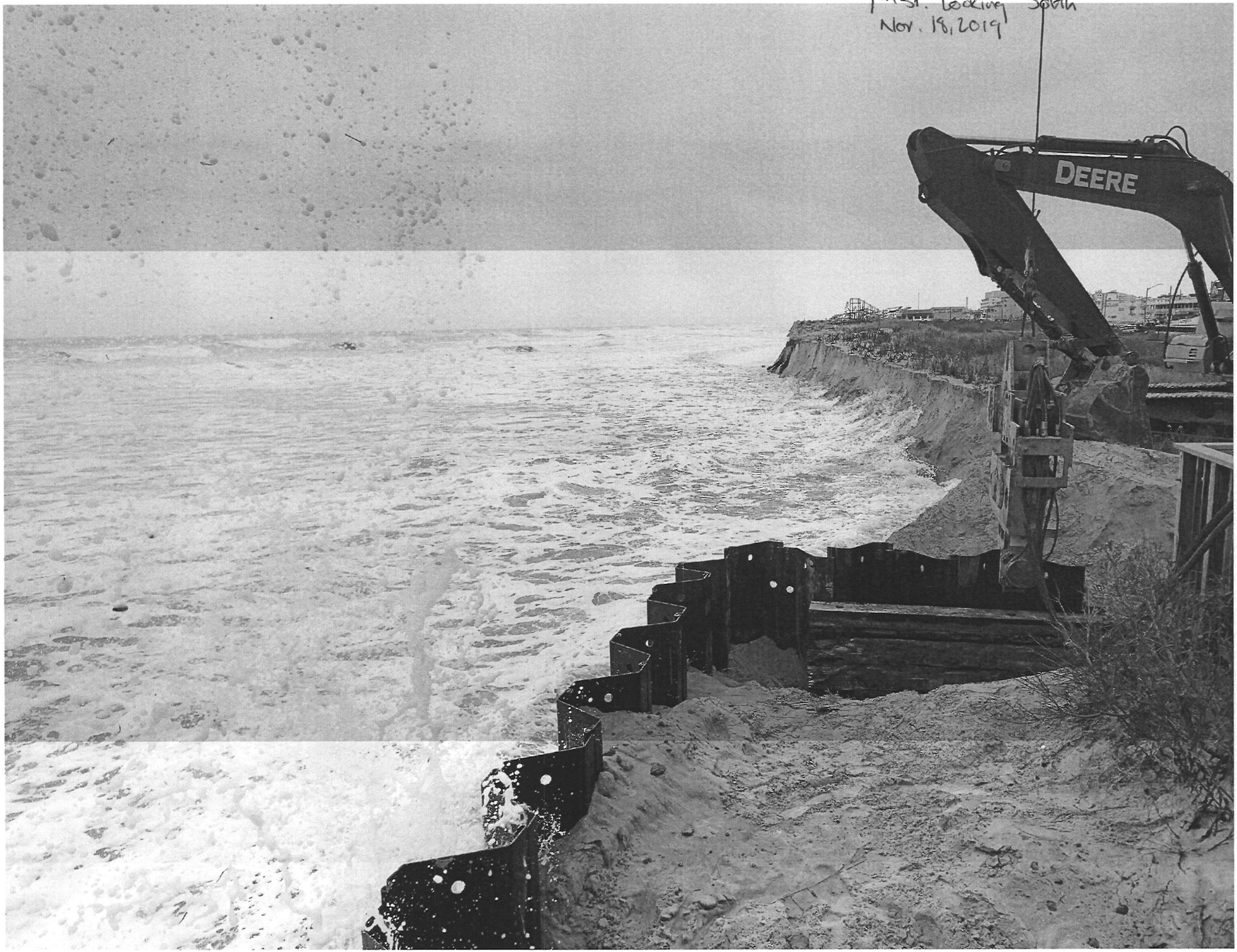
11/20/19

7th St. Looking South
Nov. 18, 2019



7th st. Looking North
Nov. 18, 2019

March 10, 2020
7th Avenue

March 10, 2020
7th Avenue