

THIS IS NOT A PAID ADVERTISEMENT



**US Army Corps
of Engineers**
Philadelphia District

Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice

Public Notice No. Date

CENAP-OPR-2020-00820

Application No. File No.

In Reply Refer to:

REGULATORY BRANCH

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: Borough of Ocean Gate

AGENT: Remington and Vernick Engineers

WATERWAYS Tom's River

LOCATION: Various waterfront locations along E. Riviera Ave. from a point just west of Ocean Gate Avenue to a point just west of Narragansette Avenue, Borough of Ocean Gate, Ocean County, New Jersey

ACTIVITY: To perform beach and dune restoration and to construct wave attenuation and dissipation structures along approximately 1 mile of waterfront. The project would include the discharge of approximately 10,000 cubic yards of fill materials into approximately 3 acres of waters below the high tide line. The fill will be placed at 6 locations along the 1-mile stretch of beach for dune construction. These locations are, going west to east, as described below.

1. This site starts at a point just west of the intersection of West Riviera and Ocean Gate Ave. The proposed work at this location entails the removal of 33 linear feet of existing concrete breakwater and the discharge of 1,178 cubic yards of fill into 0.278 acre of waters below the high tide line for placement of concrete mats and sand cover,
2. This site starts at location just east of the intersection of East Riviera between Ocean Gate Ave. and Asbury Ave. The proposed work at this location entails the removal of 50 linear feet of existing concrete breakwater, extension of an existing pile-supported stormwater outfall pipe by 30 linear feet (extending 56 feet waterward of the mean high water line), and the discharge of 761 cubic yards of sand into 0.238 acre of waterway below the high tide line along 290 linear feet of waterway,

3. This site starts at a location along East Riviera between Asbury and Wildwood Avenues. The proposed work at this location entails the discharge of 1,040 cubic yards of sand cover into 0.347 acre of waterway below the high tide line along 400 linear feet of waterway,
4. This site starts at a location along East Riviera Ave. between a point east of Wildwood Ave. and just west of Stone Harbor Ave. The proposed work at this location entails the discharge of 79 cubic yards of sand cover into 0.065 acre of waterway below the high tide line along 230 linear feet of waterway along,
5. This site starts at a location along East Riviera Ave. between points just east of Monmouth Ave. and a point just east of Anglesea Ave. The proposed work at this location entails the removal of an existing 95 foot long wooden breakwater, relocation of an existing 373 linear foot shore-parallel concrete breakwater partially landward, at, and partially just waterward of the high tide line, removal of an existing 57 foot long breakwater, and the discharge 3,403 cubic yards of sand cover into 0.927 square feet below the high tide line, and
6. This site starts at a location along East Riviera between points just east and west of Newport Ave. to a point just west of Narragansett Ave. The proposed work in this location entails the removal of an existing 97 foot long wooden breakwater, extend an existing pile-supported stormwater outfall by 30 linear feet (extending 77 feet waterward of the mean high water line), and discharge 2,198 cubic yards of sand cover for beach and dune construction into 0.676 acre below the high tide line.

Additionally, dunes would be constructed along the entire length of waterway above the high tide line. A floating turbidity curtain would be deployed along each stretch of project as it occurs to minimize turbidity. The project would also involve the removal or re-location of existing Jersey barrier "beach prisms" that were approved for placement by this office in 2012 under CENAP-OP-R-20212-00309.

The applicant has also noted the following items.

1. The outfall extension between Ocean Gate Avenue and Asbury Avenue would involve the placement of ten (10) composite fiberglass/lumber piles. The installation of these piles will utilize a "soft start" and warning shot for hammer/vibratory driving methods,
2. The outfall extension at Newport Avenue would involve the placement of ten (10) composite fiberglass/lumber piles. The installation of these piles will utilize a "soft start" and warning shot for hammer/vibratory driving methods.
3. Each breakwater removal would be completed by pulling the breakwater with a loader at low tide.

PURPOSE: The applicant's stated project purpose is to protect the Borough's structures, essential services, infrastructure and utilities from damage due to minor and major flooding events, including wave action which results in damage to structures as well as erosion to the shore.

A preliminary review of this application indicates that species listed under the Endangered Species Act (ESA) or their critical habitat pursuant to Section 7 of the ESA as amended, may be present in the action area. The ACOE will forward this PN to the US Fish and Wildlife Service and/or National Marine Fisheries Service with a request for technical assistance on whether any ESA listed species, or their critical habitat maybe present in the area which would be affected by the proposed activity. The Philadelphia District will evaluate the potential effects of the proposed actions on ESA listed species or their critical habitat and will consult with NOAA Fisheries as

appropriate. Endangered Species Act Section 7 consultation will be concluded prior to the final decision on this permit application.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Due to COVID-19, comments on the proposed work should be submitted via email, within thirty (30) days, to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District at PhiladelphiaDistrictRegulatory@usace.army.mil. If it is necessary to provide a paper copy, comments should be submitted, within thirty (30) days, via traditional hard copy mail to the U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390, Attn: CENAP-OPR.

The USACE Cultural Resource Specialist has reviewed the proposed permit action for potential impacts to Historic Properties eligible for or listed on the National Register of Historic Places. A historic properties investigation has been conducted within the permit area. Historic properties eligible for or listed on the NRHP are within the permit area, but will not be affected by the proposed action. A determination of “**No Effect**” will be coordinated with the SHPO and Tribes.

The Magnuson-Stevens Fishery Conservation and Management Act requires all federal agencies to consult with the NOAA Fisheries on all actions or proposed actions, that are permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). A preliminary review of this application indicates that EFH is present within the project area. The Philadelphia District will evaluate the potential effects of the proposed actions on EFH and will consult with NOAA Fisheries as appropriate. Consultation concerning EFH with NOAA Fisheries will be concluded prior to the final decision on this permit application.

Compensatory Mitigation: Compensatory mitigation is not required because any losses of aquatic resources from discharges of dredged or fill materials would be naturally re-established at the new re-graded areas below the high tide line, therefore, such losses will be temporary and minimal.

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

It should be noted that the project is located within the Ocean Gate Shoreline Protection Federal Project which is a Federal beach nourishment project. The project was advertised in a public notice dated September 3, 2021 under Title 33 of the United States Code, Chapter 9, Section 408 (33 USC §408). For any questions pertaining to the Federal project, please contact Dr. Juan Corona of the Philadelphia District, U.S. Army Corps of Engineers at JuanCarlos.Corona@usace.army.mil.

The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing. Such requests must be sent electronically to David.J.Caplan@usace.army.mil.

Additional information concerning this permit application may be obtained by calling Mr. David J. Caplan at 215-656-6731 or 215-605-7029, or by via email at David.J.Caplan@usace.army.mil, or writing this office at the above address.

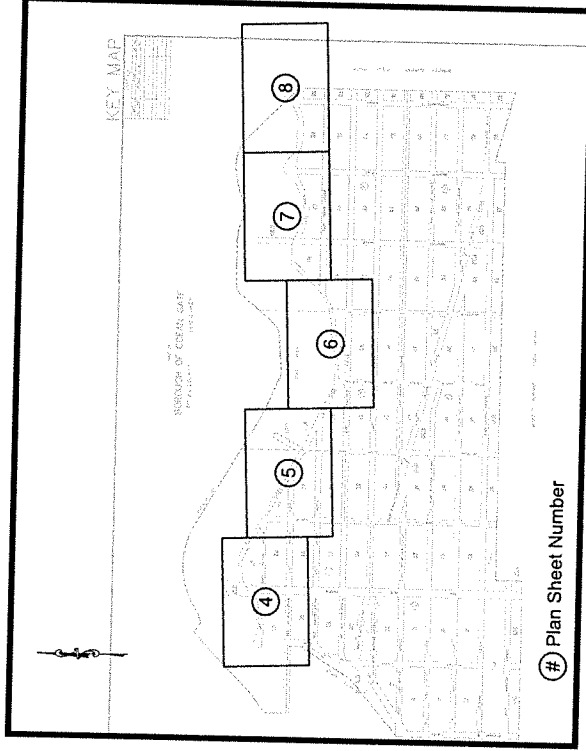


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FOR: Todd A. Schaible
Chief, Regulatory Branch

CONTRACT DRAWINGS FOR THE
BOROUGH OF OCEAN GATE
H.M.G.P. WAVE ENERGY DISSIPATION
AND FLOOD MITIGATION
OCEAN COUNTY - NEW JERSEY

BOROUGH OF OCEAN GATE	
MAYOR	
COUNCIL PRESIDENT	
COUNCIL MEMBERS	
MARK HAUG	
ALEX MARTINEZ	
LAURA PADRANHODIA	
ILEANA VAZQUEZ GALLIPOLI	



⑧ Plan Sheet Number

PROJECT LOCATION MAP
N.J.S.
 (PORTION OF RETURN SHEET OF THE BOROUGH OF OCEAN GATE TAX MAPS)

SHEET #	DESCRIPTION
1	TITLE SHEET
2	NOTES AND QUANTITIES
3	STANDARD LEGEND
4-8	PROPOSED IMPROVEMENT PLANS
9-12	PROPOSED CROSS SECTIONS
13-14	CONSTRUCTION DETAILS
15-16	SOIL EROSION PLANS
17	SOIL EROSION NOTES
18	SOIL EROSION DETAILS

- GENERAL NOTES:**
- THE BOROUGH ENGINEER HAS REVIEWED THE REMOVAL OF THE EXISTING AS THE EXISTING... (text continues)
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE BOROUGH OF OCEAN GATE AND THE STATE OF NEW JERSEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE BOROUGH OF OCEAN GATE AND THE STATE OF NEW JERSEY.
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RYE
 REMINGTON & VERNICK ENGINEERS
 1000 ALLEN STREET
 TOWNSHIP OF OCEAN GATE, NJ 08226
 (732) 346-9250 FAX (732) 355-8416
 WWW.RYE.COM

Alan B. Dittenhofer
ALAN B. DITTENHOFER
 PROFESSIONAL ENGINEER, P.E. IN 3192

DATE	11/11/2022
BY	ALAN B. DITTENHOFER
CHECKED	ALAN B. DITTENHOFER
DATE	11/11/2022
BY	ALAN B. DITTENHOFER
CHECKED	ALAN B. DITTENHOFER

PLEASE CHECK FOR ANY CHANGES TO THE DRAWINGS... (text continues)

NO.	DATE	BY	DESCRIPTION
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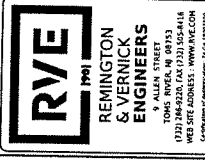
TITLE SHEET

BOROUGH OF OCEAN GATE
 H.M.G.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

SCALE	AS SHOWN
DATE	11/11/2022
BY	ALAN B. DITTENHOFER
CHECKED	ALAN B. DITTENHOFER
DATE	11/11/2022
BY	ALAN B. DITTENHOFER
CHECKED	ALAN B. DITTENHOFER

1 of 18



DATE	REVISION
12/22/20	REVISED PER COMMENTS
12/21/20	REVISED PER COMMENTS
12/16/20	REVISED PER COMMENTS
12/16/20	REVISED PER COMMENTS
12/16/20	REVISED PER COMMENTS

ESTIMATE OF QUANTITIES

Item No.	Description	Contract Quantity	Unit
1	Mobilization/Demobilization		LS
2	Beach Replenishment/Drum Creation	15,523	LS
3	Vegetation Restoration	6,450	LS
4	Concrete Articulated Matting	12,130	Sq.
5	Soil Erosion Control	7	AL
6	Extend 18" R.C.P. Outfall Pipe	30	LF
7	Drum Fabrication	4,770	LS
8	Beach Access Mats	1	LS
9		396	

TOTAL EARTHWORK CALCULATIONS:

Name	Type	Fill Factor	2d Area (Sq. Ft.)	2d Area (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
TOTAL VOLUMES (Overall)	fill	1.00	32025.69	303.86	15823.44	15119.99-Fill*
Total					15823.44	15119.99-Fill*

* Value adjusted by cut or fill factor other than 1.0

WATER DISTURBANCE AREA CALCULATIONS ONLY:

Name	Type	Fill Factor	2d Area (Sq. Ft.)	2d Area (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Area-1	berm/dike	1.00	12073.96	0.00	1177.53	1177.46-Fill*
Area-2	berm/dike	1.00	10378.91	0.51	761.19	761.04-Fill*
Area-3	berm/dike	1.00	1989.09	1.47	1041.13	1039.65-Fill*
Area-4	berm/dike	1.00	2984.09	0.01	1335.88	1333.87-Fill*
Area-5	berm/dike	1.00	2533.86	0.00	789.5	894.95-Fill*
Area-6	berm/dike	1.00	39978.52	6.34	3400.19	2402.55-Fill*
Area-7	berm/dike	1.00	24066.55	0.03	2167.77	2167.74-Fill*
Total			129773.94	2.32	6956.63	9992.41-Fill*

* Value adjusted by cut or fill factor other than 1.0

NOTES:
 1. THE ABOVE CALCULATIONS ARE A SUMMARY OF THE TOTAL VOLUMES OF EARTHWORK.
 2. THE CALCULATIONS ARE BASED ON THE PROPOSED CONDITIONS AND THE EXISTING CONDITIONS FOR THE PROJECT.
 3. THE SAMPLING METHODS USED ARE FROM AIRSHELL, DATE: 20.

- ### CONSTRUCTION NOTES:
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE ATTENTION OF THE ENGINEER'S REPRESENTATIVE. DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
 - LOCATION OF PILING LINES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
 - ALL PILING AND CONSTRUCTION SHALL BE COMPLETED AND VERIFIED BEFORE ANY OTHER PILING OPERATIONS ARE PERMITTED. WORKING CONSTRUCTION SHALL BE ACCORDING TO THE CONTRACT AND AT ALL TIMES BE IN ACCORDANCE WITH THE SCHEDULE.
 - ALL WORK SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION.
 - ALL DIMENSIONS SHALL BE TAKEN TO THE CENTER OF THE PILING LINE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL UTILITIES, ETC. TO REMAIN. ANY UTILITIES TO BE DELETED OR REDUCED TO A MINIMUM SHALL BE IDENTIFIED AND MARKED PRIOR TO THE START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
 - ALL MATERIALS SHALL BE OF THE QUALITY AND TYPE SPECIFIED IN THE SCHEDULE.
 - ALL DIMENSIONS SHALL BE TAKEN TO THE CENTER OF THE PILING LINE.
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REMINGTON & VERNICK ENGINEERS
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 (732) 825-1111
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 4000 REMINGTON DRIVE
 TOMS RIVER, NJ 08753
 (732) 825-1111
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ALAN B. DITTENKROFER
 LICENSED PROFESSIONAL ENGINEER NO. 19372

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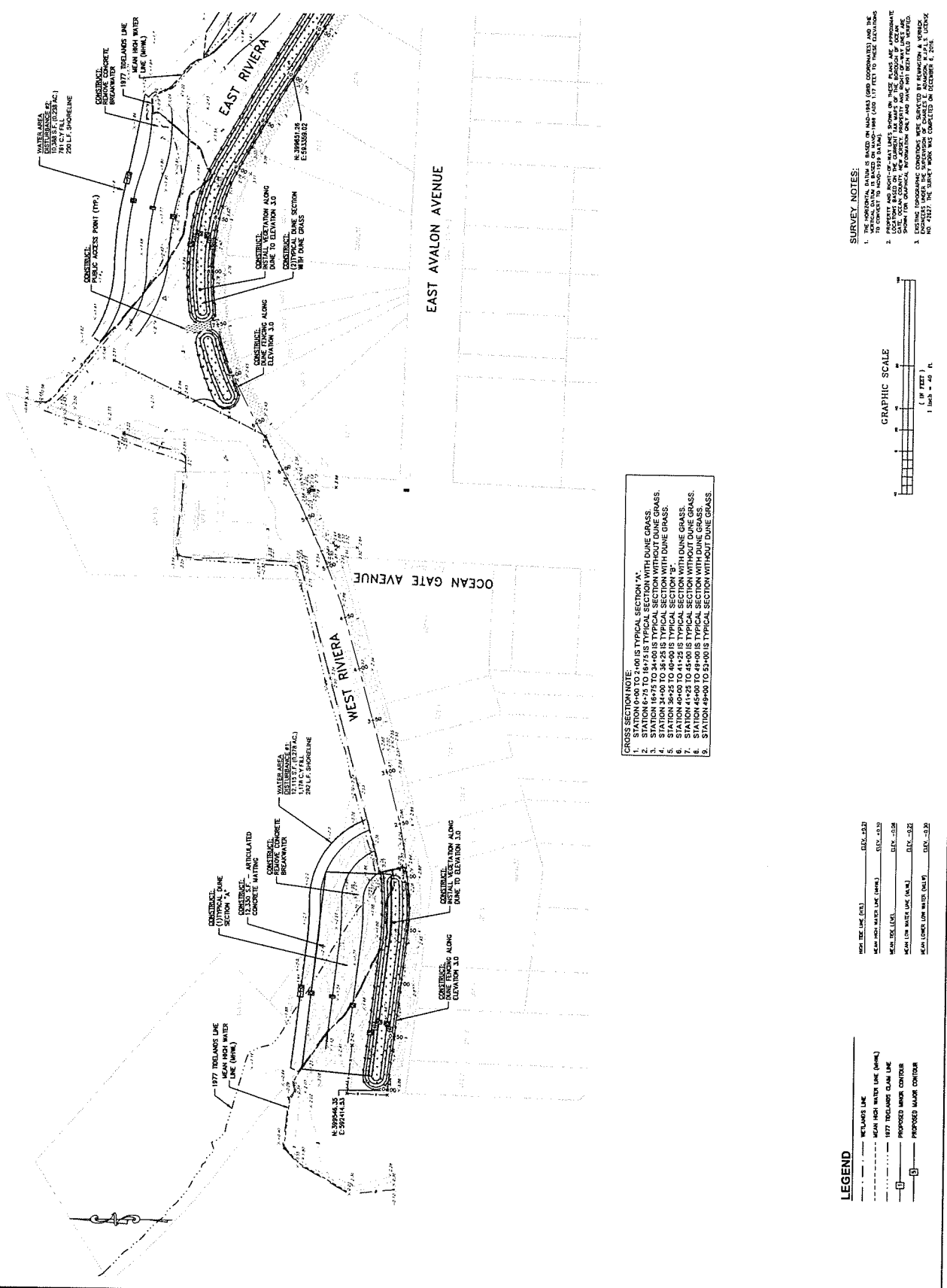
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BRUNNEN OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
 BRUNNEN OF OCEAN GATE

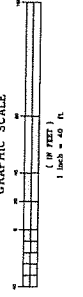
PLAN SHEET (1)

DATE: 11/11/11
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 SCALE: AS SHOWN
 SHEET NO. 4 OF 18



- CROSS SECTION NOTE**
- STATION 0+00 TO 2+00 IS TYPICAL SECTION "A".
 - STATION 6+75 TO 18+75 IS TYPICAL SECTION WITH DUINE GRASS.
 - STATION 24+00 TO 36+25 IS TYPICAL SECTION WITH DUINE GRASS.
 - STATION 36+25 TO 40+00 IS TYPICAL SECTION WITH DUINE GRASS.
 - STATION 41+25 TO 45+00 IS TYPICAL SECTION WITH DUINE GRASS.
 - STATION 45+00 TO 49+00 IS TYPICAL SECTION WITH DUINE GRASS.
 - STATION 49+00 TO 53+00 IS TYPICAL SECTION WITHOUT DUINE GRASS.

- SURVEY NOTES:**
- THE HORIZONTAL DATUM IS BASED ON NAD-83 (GRID COORDINATES) AND THE VERTICAL DATUM IS BASED ON MLLW (MEAN LOW WATER).
 - PROPERTY AND SURVEY DATA SHOWN ON THESE PLANS ARE APPROXIMATE. FIELD SURVEY DATA WILL BE USED TO CORRECT THESE DATA. ALL SURVEY DATA WILL BE USED TO CORRECT THESE DATA.
 - EXISTING (PROPOSED) CONTOURS WERE DERIVED BY INTERPOLATING THE SURFACE DATA. THE SURFACE DATA WAS PROVIDED BY THE CLIENT. THE SURFACE DATA WAS PROVIDED BY THE CLIENT.



- LEGEND**
- MEAN HIGH WATER LINE (MHW)
 - 1977 TIDALINE LINE (MHW)
 - PROPOSED MAJOR CENTERLINE
 - PROPOSED MAJOR CENTERLINE

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 S. VERNICK
 ENGINEERS

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 www.rve.com
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 Professional Engineer License No. 24564
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 Professional Engineer License No. 24567
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 Professional Engineer License No. 24574
 Professional Engineer License No. 24575
 Professional Engineer License No. 24576
 Professional Engineer License No. 24577
 Professional Engineer License No. 24578
 Professional Engineer License No. 24579
 Professional Engineer License No. 24580

ALAN B. DITTENHOFFER
 PROFESSIONAL ENGINEER, L.C. NO. 35721

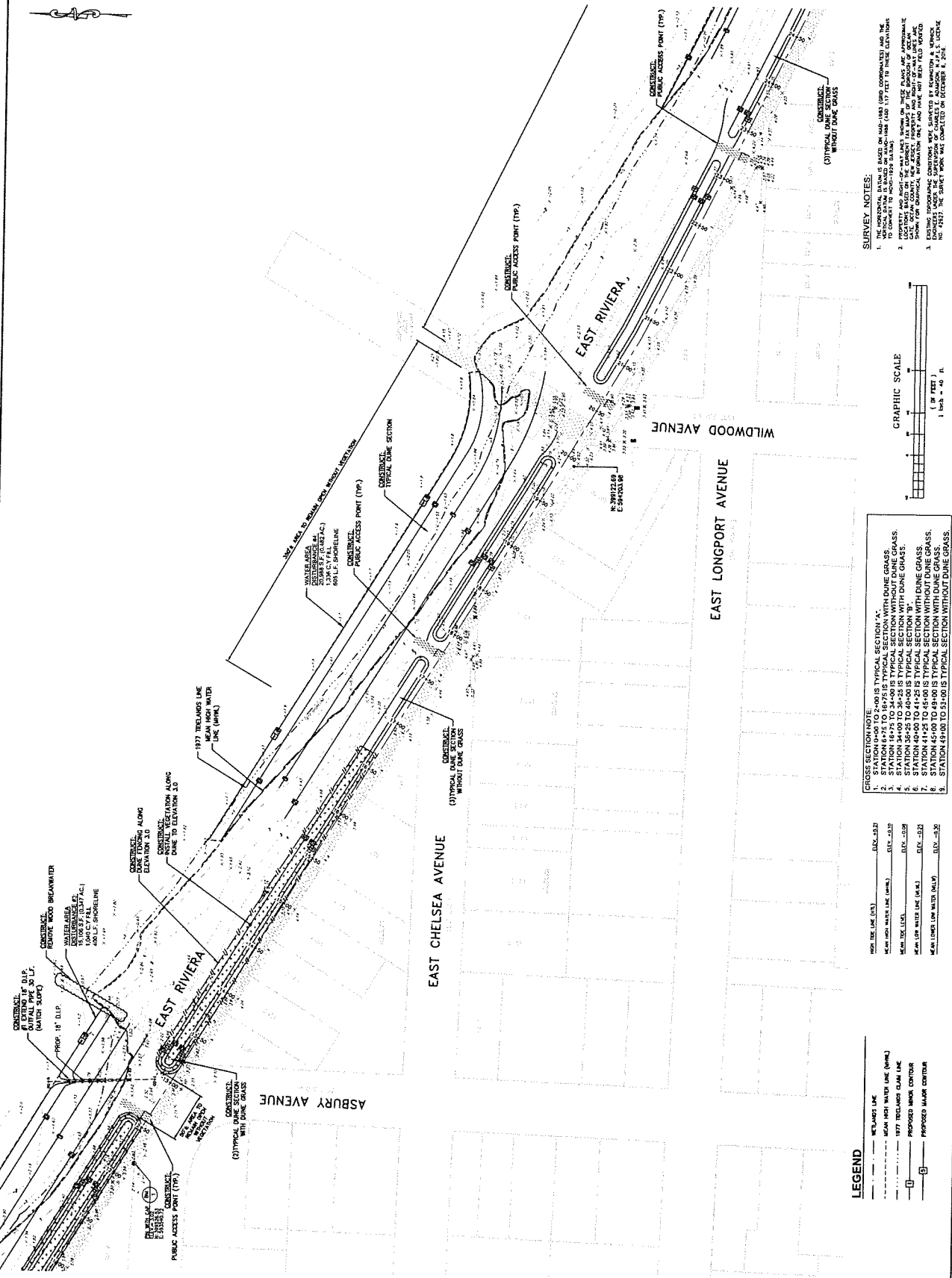
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50	REV. FOR OWNER COMMENTS	11-11-19

H.M.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

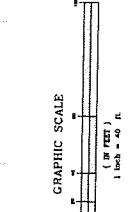
PLAN SHEET (2)

DATE: 11/11/19
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT NO.: [Number]
 SHEET NO.: 5 of 18



SURVEY NOTES:

1. THE HORIZONTAL DATA IS BASED ON NAD-83 (GEO DATUM) AND THE VERTICAL DATA IS BASED ON MLLW (MEAN LOW WATER) TO CORRECT TO MSL (MEAN SEA LEVEL).
2. PROPERTY AND SURVEY DATA SHOWN ON THESE PLANS ARE APPROXIMATE AND FIELD CHECKS SHOULD BE MADE TO VERIFY THE DATA.
3. EXISTING PROPOSED CONSTRUCTION AND DATA NOT SHOWN HEREON ARE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ENGINEER.
4. VERIFY THE EXISTING DATA BEFORE CONSTRUCTION OF ANY STRUCTURE.



- GROSS SECTION NOTE:**
1. STATION 0+00 TO 2+00 IS TYPICAL SECTION 'A'.
 2. STATION 2+00 TO 3+00 IS TYPICAL SECTION WITH DUNE GRASS.
 3. STATION 3+00 TO 4+00 IS TYPICAL SECTION WITH DUNE GRASS.
 4. STATION 4+00 TO 5+00 IS TYPICAL SECTION WITH DUNE GRASS.
 5. STATION 5+00 TO 6+00 IS TYPICAL SECTION WITH DUNE GRASS.
 6. STATION 6+00 TO 7+00 IS TYPICAL SECTION WITH DUNE GRASS.
 7. STATION 7+00 TO 8+00 IS TYPICAL SECTION WITH DUNE GRASS.
 8. STATION 8+00 TO 9+00 IS TYPICAL SECTION WITH DUNE GRASS.
 9. STATION 9+00 TO 10+00 IS TYPICAL SECTION WITH DUNE GRASS.

DESCRIPTION	REMARKS
MEAN HIGH WATER LINE (MHW)	ELV. +3.50
MEAN LOW WATER LINE (MLW)	ELV. +2.50
MEAN TIDE LEVEL	ELV. +2.00
MEAN LOW WATER LINE (M.L.W.)	ELV. +1.50
MEAN LOW WATER (M.L.W.)	ELV. +1.00

- LEGEND**
- MEAN HIGH WATER LINE (MHW)
 - MEAN LOW WATER LINE (MLW)
 - PROPOSED MHW CONTOUR
 - PROPOSED MLW CONTOUR

RVE
1981
REMINGTON & VERNICK ENGINEERS
9 ALLEN STREET
STONINGTON, CT 06424
TEL: (860) 439-1000 FAX: (860) 439-1001
WWW.RVE.COM
ALLEN STREET
STONINGTON, CT 06424
TEL: (860) 439-1000 FAX: (860) 439-1001
WWW.RVE.COM

ALAN B. DITTMER
REGISTERED PROFESSIONAL ENGINEER
NO. 10210
EXPIRES 12/31/2010

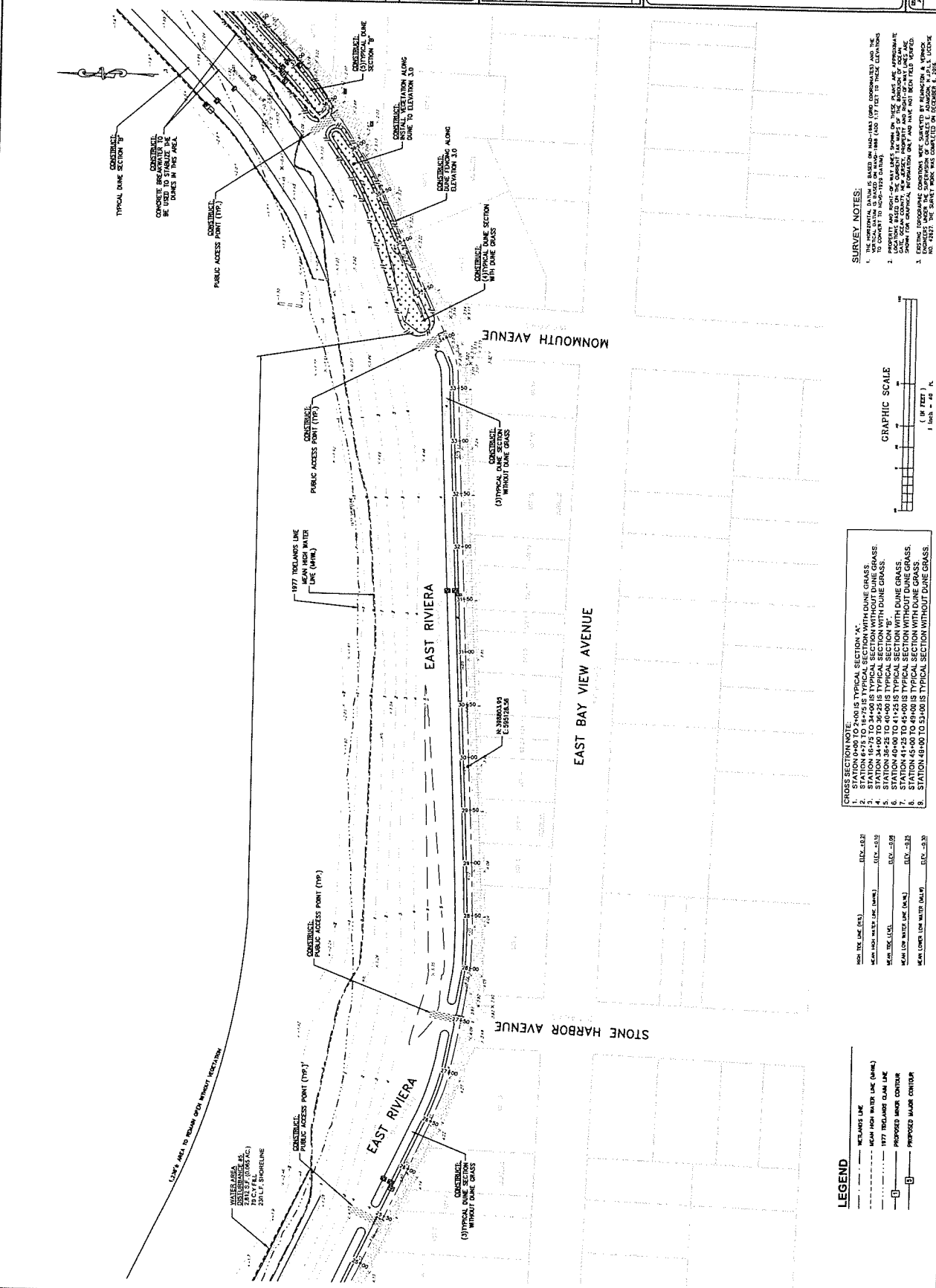
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NO.	REVISION	DATE
1	REV. FOR PERMITS	11/11/10
2	REV. FOR PERMITS	11/11/10
3	REV. FOR PERMITS	11/11/10
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9	REV. FOR PERMITS	11/11/10
10	REV. FOR PERMITS	11/11/10

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

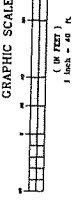
PLAN SHEET (3)

DATE: 11/11/10
SCALE: AS SHOWN
SHEET NO.: 6 OF 18



SURVEY NOTES:

1. SURVEY DATA WAS OBTAINED FROM THE BOROUGH OF OCEAN GATE AND THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (NJDOT).
2. THE SURVEY DATA WAS OBTAINED FROM THE BOROUGH OF OCEAN GATE AND THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (NJDOT).
3. EXISTING PROPOSED CONDITIONS WERE SURVEYED BY SURVEYOR A. VERNICK ON 11/11/10. THE SURVEY WORK WAS COMPLETED ON 11/11/10.



CROSS SECTION NOTE:

1. STATION 48+00 IS TYPICAL SECTION WITH DUNE GRASS.
2. STATION 47+75 TO 48+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
3. STATION 47+50 TO 47+75 IS TYPICAL SECTION WITHOUT DUNE GRASS.
4. STATION 47+25 TO 47+50 IS TYPICAL SECTION WITHOUT DUNE GRASS.
5. STATION 47+00 TO 47+25 IS TYPICAL SECTION WITHOUT DUNE GRASS.
6. STATION 46+75 TO 47+00 IS TYPICAL SECTION WITHOUT DUNE GRASS.
7. STATION 46+50 TO 46+75 IS TYPICAL SECTION WITHOUT DUNE GRASS.
8. STATION 46+25 TO 46+50 IS TYPICAL SECTION WITHOUT DUNE GRASS.
9. STATION 46+00 TO 46+25 IS TYPICAL SECTION WITHOUT DUNE GRASS.

LINE TYPE	DESCRIPTION
---	MEAN HIGH WATER LINE (MHW)
---	MEAN HIGH WATER LINE (MHW)
---	MEAN TIDE LINE (MTL)
---	MEAN LOW WATER LINE (MLW)
---	MEAN LOW WATER LINE (MLW)
---	MEAN LOW WATER LINE (MLW)

LEGEND

- METLANDS LINE
- MEAN HIGH WATER LINE (MHW)
- 1977 REGULATED DUNE LINE
- PROPOSED DUNE CONTOUR
- PROPOSED MAJOR CONTOUR

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Professional Engineer License No. 3577

ALAN B. DITTENROFER
PROFESSIONAL ENGINEER LICENSE NO. 3577

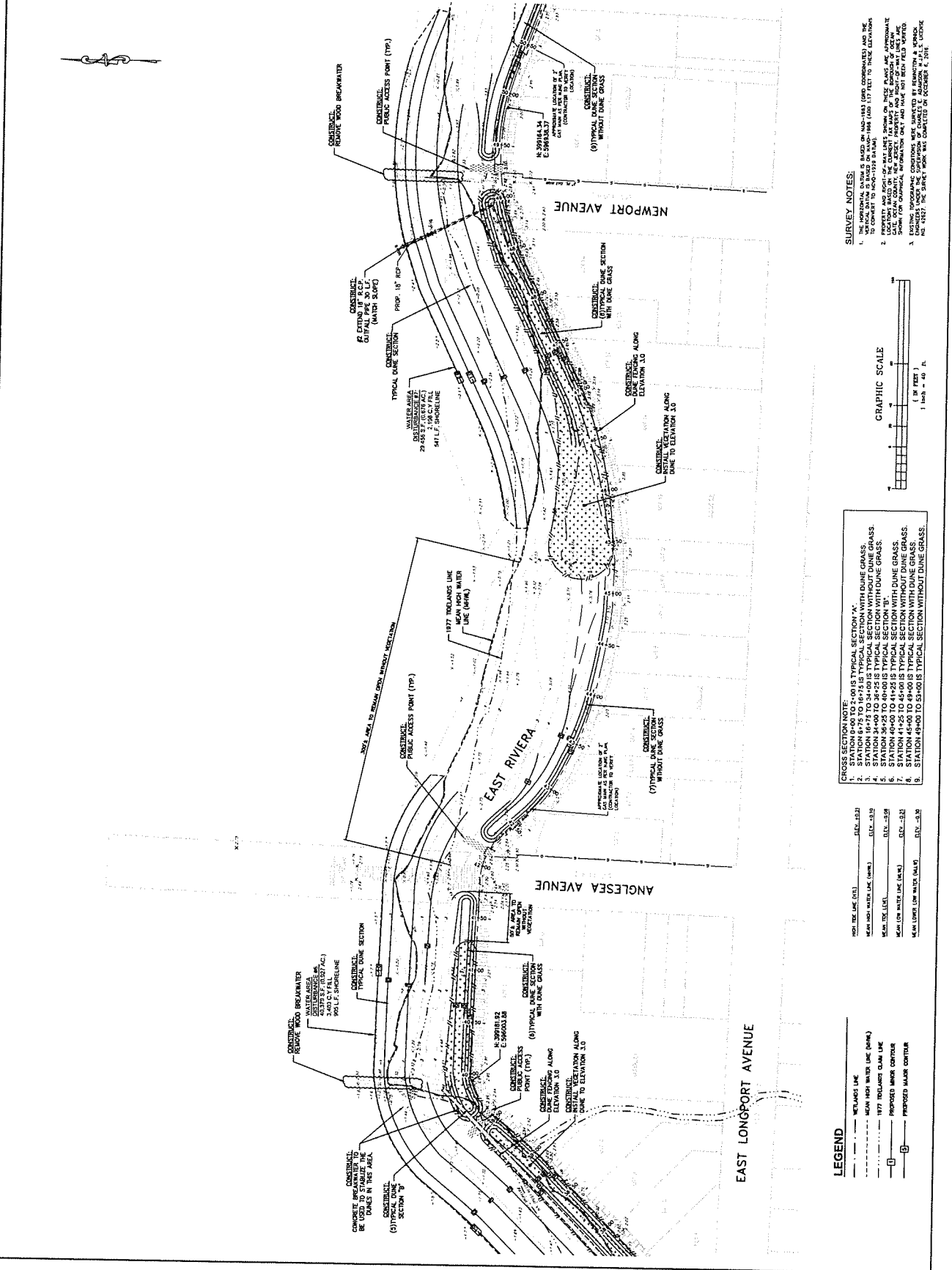
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49	11-17-11	REVISED PER COMMENTS
50	11-17-11	REVISED PER COMMENTS

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

PLAN SHEET (4)

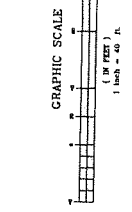
BOROUGH OF OCEAN GROVE

DATE: 7/18/11
SCALE: AS SHOWN
SHEET: 7 OF 18
PROJECT: H.M.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION



SURVEY NOTES:

- THE HORIZONTAL DATUM IS BASED ON NAD-83 (GRID COORDINATES) AND THE VERTICAL DATUM IS BASED ON MLLW (MEAN LOW WATER) TO CORRECT TO MGS (MEAN SEA LEVEL).
- PROPERTY AND SURVEY DATA LINES, SHOWING ON THESE PLANS ARE APPROXIMATE DATA. THE QUALITY OF THE SURVEY DATA IS NOT GUARANTEED BY THE ENGINEER.
- EXISTING PROPOSED COASTLINE AND DUNE LINE ARE NOT SHOWN. THE PROPOSED COASTLINE AND DUNE LINE ARE SHOWN ON THESE PLANS. THE PROPOSED COASTLINE AND DUNE LINE ARE NOT TO BE CONSIDERED AS A GUARANTEE OF FUTURE PERFORMANCE.



- CROSS SECTION NOTES:**
- STATION 0+00 TO 5+00 IS TYPICAL SECTION "A"
 - STATION 5+75 TO 16+75 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 16+75 TO 34+25 IS TYPICAL SECTION WITHOUT DUNE GRASS
 - STATION 34+25 TO 40+00 IS TYPICAL SECTION "B"
 - STATION 40+00 TO 44+25 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 44+25 TO 49+00 IS TYPICAL SECTION WITHOUT DUNE GRASS
 - STATION 49+00 TO 53+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 53+00 TO 55+00 IS TYPICAL SECTION WITHOUT DUNE GRASS

NO.	DATE	REVISION
1	11-17-11	ISSUED FOR PERMITS
2	11-17-11	REVISED PER COMMENTS
3	11-17-11	REVISED PER COMMENTS
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50	11-17-11	REVISED PER COMMENTS

- LEGEND**
- NETWORK LINE
 - MEAN HIGH WATER LINE (MHW)
 - 1977 REGULATED DUNE LINE
 - PROPOSED DUNE LINE
 - PROPOSED MARSH CENTER
 - PROPOSED MARSH CENTER

RYE 1941
REMINGTON & VERNICK ENGINEERS
 9 ALLEN STREET
 NEW BRUNSWICK, NJ 08901
 TEL: 732-246-3000 FAX: 732-246-3446
 WWW.RVE.COM
 CENTRAL MAIL ADDRESS: 700 W. 10TH ST. SUITE 200
 NEW BRUNSWICK, NJ 08901

ALAN B. DITTENHOFFER
 PROFESSIONAL ENGINEER, No. 3827

NO.	REVISION	DATE
1	ISSUE FOR PERMITTING	02/20/13
2	REV. PERMITTING	02/20/13
3	REV. PERMITTING	02/20/13
4	REV. PERMITTING	02/20/13
5	REV. PERMITTING	02/20/13
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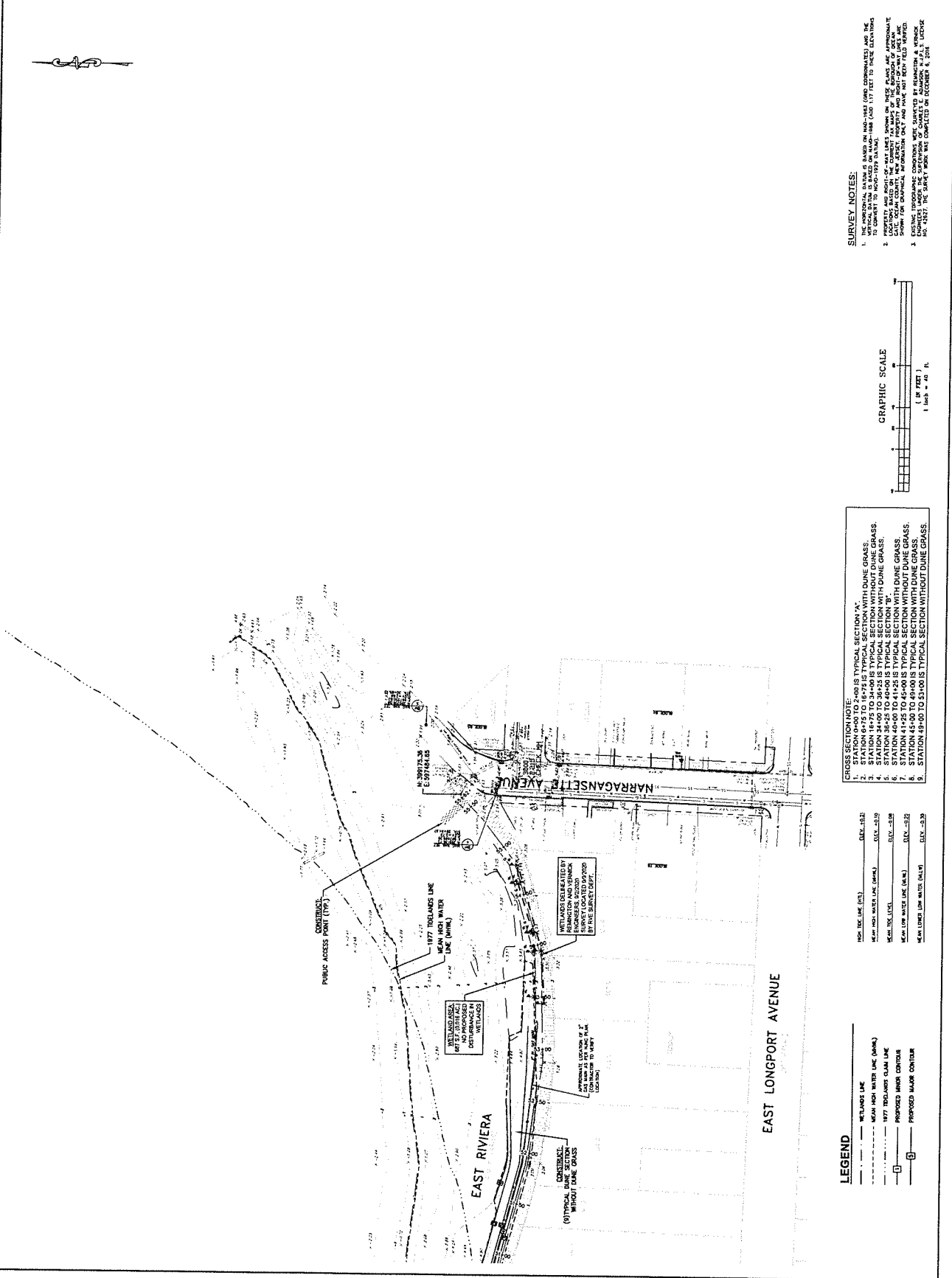
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H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
 BOROUGH OF OCEAN GATE
 OCEAN COUNTY, NEW JERSEY

PLAN SHEET (5)

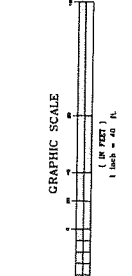
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 DRAWN BY: [Name]
 CHECKED BY: [Name]
 IN CHARGE: [Name]

SCALE: AS SHOWN
 SHEET NO. 8 OF 18



SURVEY NOTES:

- THE INFORMATION IS BASED ON MONUMENT (GEO CORNER) AND THE SURVEY POINTS SHOWN ON THIS PLAN. THE USER IS RESPONSIBLE TO VERIFY THE LOCATION AND ELEVATION OF ALL MONUMENTS AND SURVEY POINTS TO BE USED.
- EXISTING PROGRAMME CONDITIONS WERE SURVEYED BY REMINGTON & VERNICK ENGINEERS IN 2012. THE SURVEY WORK WAS COMPLETED ON DECEMBER 6, 2012.



CROSS SECTION NOTES:

- STATION 0+00 TO 2+00 IS TYPICAL SECTION 'A'.
- STATION 2+00 TO 3+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 3+00 TO 4+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 4+00 TO 5+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 5+00 TO 6+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 6+00 TO 7+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 7+00 TO 8+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 8+00 TO 9+00 IS TYPICAL SECTION WITH QUINE GRASS.
- STATION 9+00 TO 10+00 IS TYPICAL SECTION WITH QUINE GRASS.

NO.	DESCRIPTION	DATE
1	MEAN HIGH WATER LINE (MHW)	02/20/13
2	MEAN LOW WATER LINE (MLW)	02/20/13
3	MEAN LOW WATER LINE (MLW)	02/20/13
4	MEAN LOW WATER LINE (MLW)	02/20/13

LEGEND

- WETLANDS LINE
- MEAN HIGH WATER LINE (MHW)
- 1977 TIDE GAUGE CLAM LINE
- PROPOSED MHW CENTER
- PROPOSED MLW CENTER

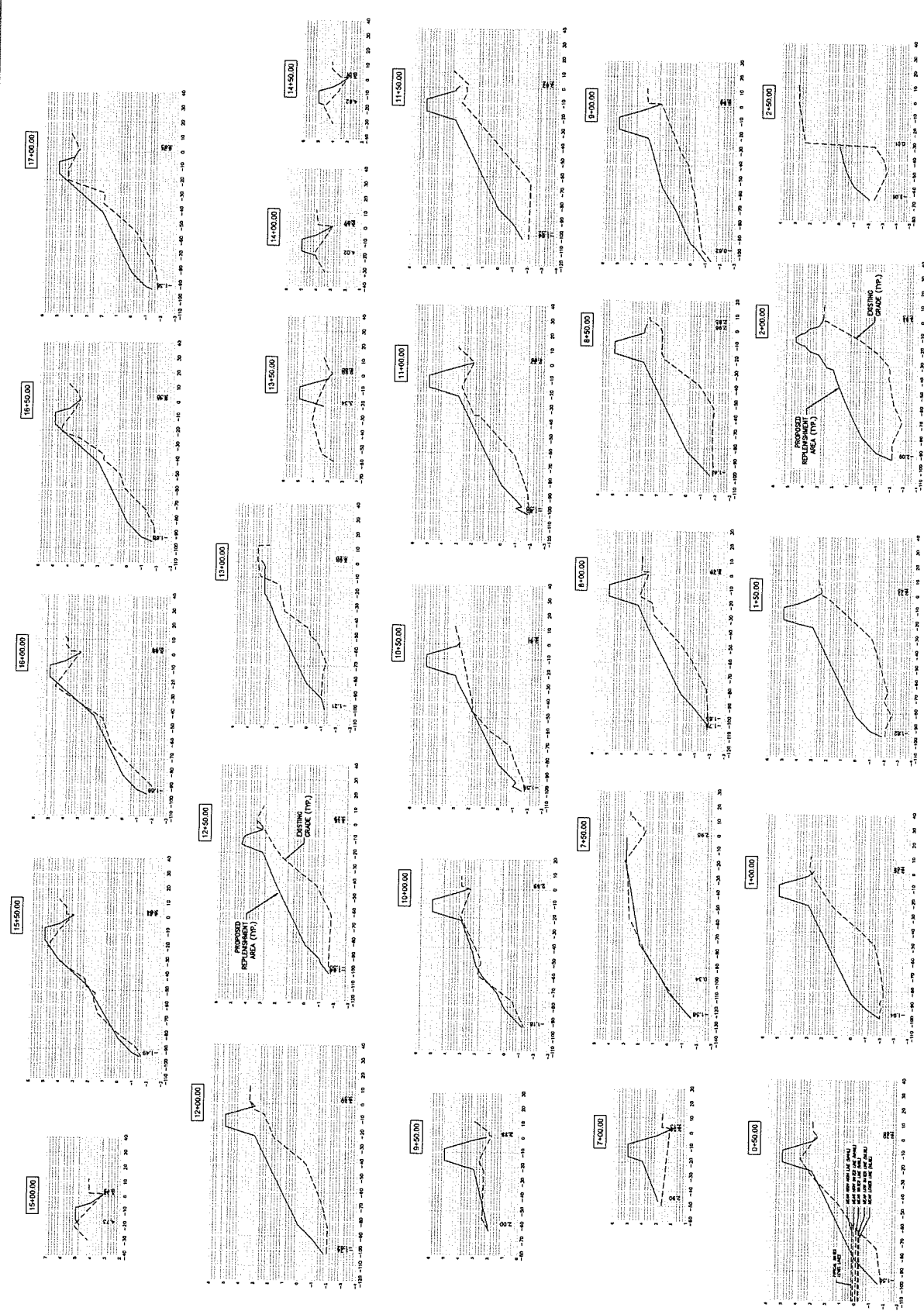
RYE 1991
REMINGTON & VERNICK ENGINEERS
 1000 RYER AVENUE, SUITE 100
 TOWNSHIP OF RYER, NJ 07073
 (732) 766-9200, FAX (732) 554-8416
 WWW.RVE.COM
 REMINGTONANDVERNICK.COM
 REMINGTONANDVERNICK.COM

ALAN B. DITTMERHOFFER
 NJ PROFESSIONAL ENGINEER, NO. 39127

DATE: 11/27/2012 11:49:51 AM
 PROJECT: H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
 SHEET: CROSS SECTIONS (1)
 SHEET NO.: 9 OF 18
 DRAWN BY: J. J. [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]

CROSS SECTIONS (1)
 BOROUGH OF OCEAN DATE
 H.M.G.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION
 BOROUGH OF OCEAN DATE
 OCEAN COUNTY
 NEW JERSEY

CROSS SECTIONS
 SCALE: HORIZONTAL = 1" = 30'
 VERTICAL = 1" = 3'
 GRAPHIC SCALE
 SCALE IN FEET
 (1" = 30')



CROSS SECTIONS NOTE:
 1. WATERLINE LEVELS
 2. ELEVATION ARE ON DATUM NAVD-1988.



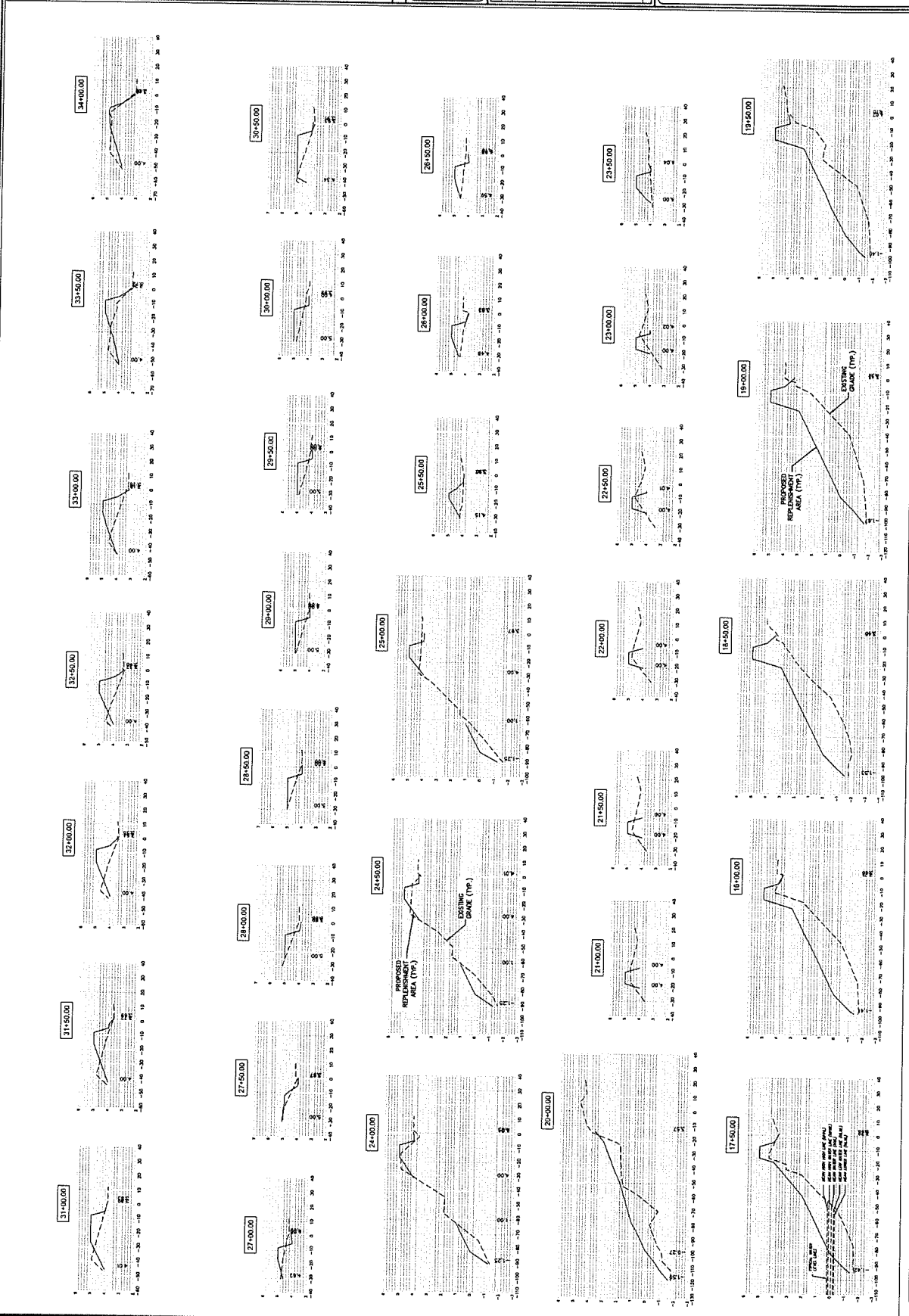
ALAN B. DITTENHOFFER
Professional Engineer No. 31757
NY PROFESSIONAL ENGINEER, L.C. No. 31757

DATE: 11/14/18
PROJECT: H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
SHEET NO. 10 OF 18

NO.	DATE	DESCRIPTION

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

10 of 18
SCALE: HORIZONTAL - 1" = 30'
SCALE: VERTICAL - 1" = 5'



CROSS SECTIONS
SCALE: HORIZONTAL - 1" = 30'
SCALE: VERTICAL - 1" = 5'

CROSS SECTIONS NOTE:
1. PLEASE SEE TYPICAL CROSS SECTIONS ON PAGE 13 FOR
2. ELEVATIONS ARE ON DATUM NAVD 1988.



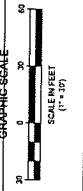
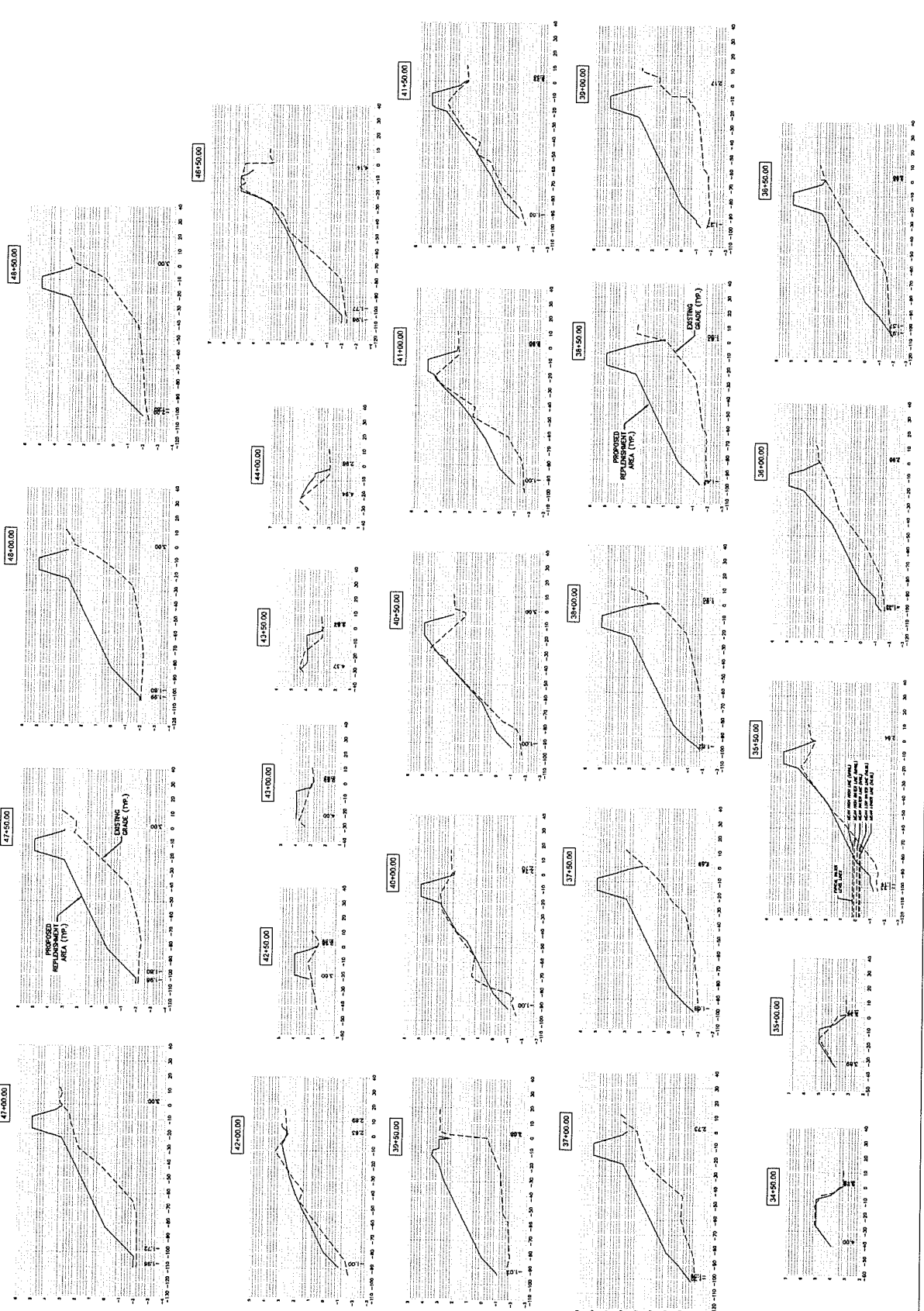
ALAN B. DITTENHOFER
 PROFESSIONAL ENGINEER, No. 10727

9 ALLEN STREET
 TOMS RIVER, NJ 08733
 TEL: 856-895-8800 FAX: 856-895-8816
 WEBSITE ADDRESS: WWW.RVE.COM
 2008 Professional Engineer License No. 10727

NO.	DATE	BY	CHKD
1	11/14/18	ALB	ALB
2	11/14/18	ALB	ALB
3	11/14/18	ALB	ALB
4	11/14/18	ALB	ALB
5	11/14/18	ALB	ALB
6	11/14/18	ALB	ALB
7	11/14/18	ALB	ALB
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16	11/14/18	ALB	ALB
17	11/14/18	ALB	ALB
18	11/14/18	ALB	ALB
19	11/14/18	ALB	ALB
20	11/14/18	ALB	ALB

H.M.S.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION
 BOROUGH OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

CROSS SECTIONS (3)
 SHEET NO. 11 OF 18



CROSS SECTIONS
 SCALE: HORIZONTAL - 1" = 50'
 VERTICAL - 1" = 5'

CROSS SECTION NOTE:
 1. WATER LINE LEVELS.
 2. ELEVATION ARE ON DATUM NAVD83/1988.



Alan B. Dittenhofer
ALAN B. DITTENHOFER
 PROFESSIONAL ENGINEER, LIC. NO. 31872

CROSS SECTIONS (4)
 H.M.G.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION
 REGION OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

NO.	REVISION	DATE
1	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
2	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
3	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
4	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
5	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
6	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
7	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
8	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
9	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
10	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11

CROSS SECTIONS
 SCALE: HORIZONTAL - 1" = 20'
 VERTICAL - 1" = 2'

CROSS SECTIONS (4)
 H.M.G.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION
 REGION OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

NO.	REVISION	DATE
1	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
2	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
3	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
4	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
5	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
6	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
7	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
8	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
9	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11
10	REV. 18" R.C.P. COMP. RUCK LATER 12/27/11	12-27-11

CROSS SECTIONS
 SCALE: HORIZONTAL - 1" = 20'
 VERTICAL - 1" = 2'



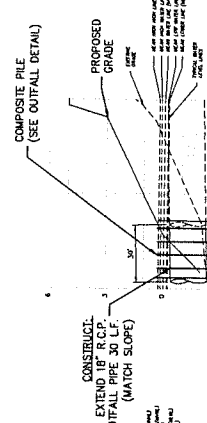
PROFILE NOTE:
 1. OUTFALL SECTION SHOWN ON SHEET 5 OF 18 AT APPROXIMATE STATION 12+75.00
 2. APPROXIMATE STATION 12+75.00
 3. SEE SHEET 14 OF 18 FOR PILE SPACING
 4. SEE DETAIL 'OUTFALL PIPE EXTENSION'

OUTFALL EXTENSION #1
 PROFILE: 0+00 - 1+00
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 2'



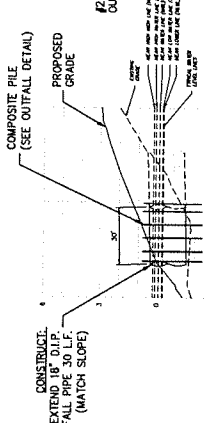
PROFILE NOTE:
 1. OUTFALL SECTION SHOWN ON SHEET 7 OF 18 AT APPROXIMATE STATION 12+90.00
 2. APPROXIMATE STATION 12+90.00
 3. SEE SHEET 14 OF 18 FOR PILE SPACING
 4. SEE DETAIL 'OUTFALL PIPE EXTENSION'

OUTFALL EXTENSION #2
 PROFILE: 0+00 - 1+00
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 2'



PROFILE NOTE:
 1. OUTFALL SECTION SHOWN ON SHEET 5 OF 18 AT APPROXIMATE STATION 12+75.00
 2. APPROXIMATE STATION 12+75.00
 3. SEE SHEET 14 OF 18 FOR PILE SPACING
 4. SEE DETAIL 'OUTFALL PIPE EXTENSION'

OUTFALL EXTENSION #3
 PROFILE: 0+00 - 1+00
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 2'



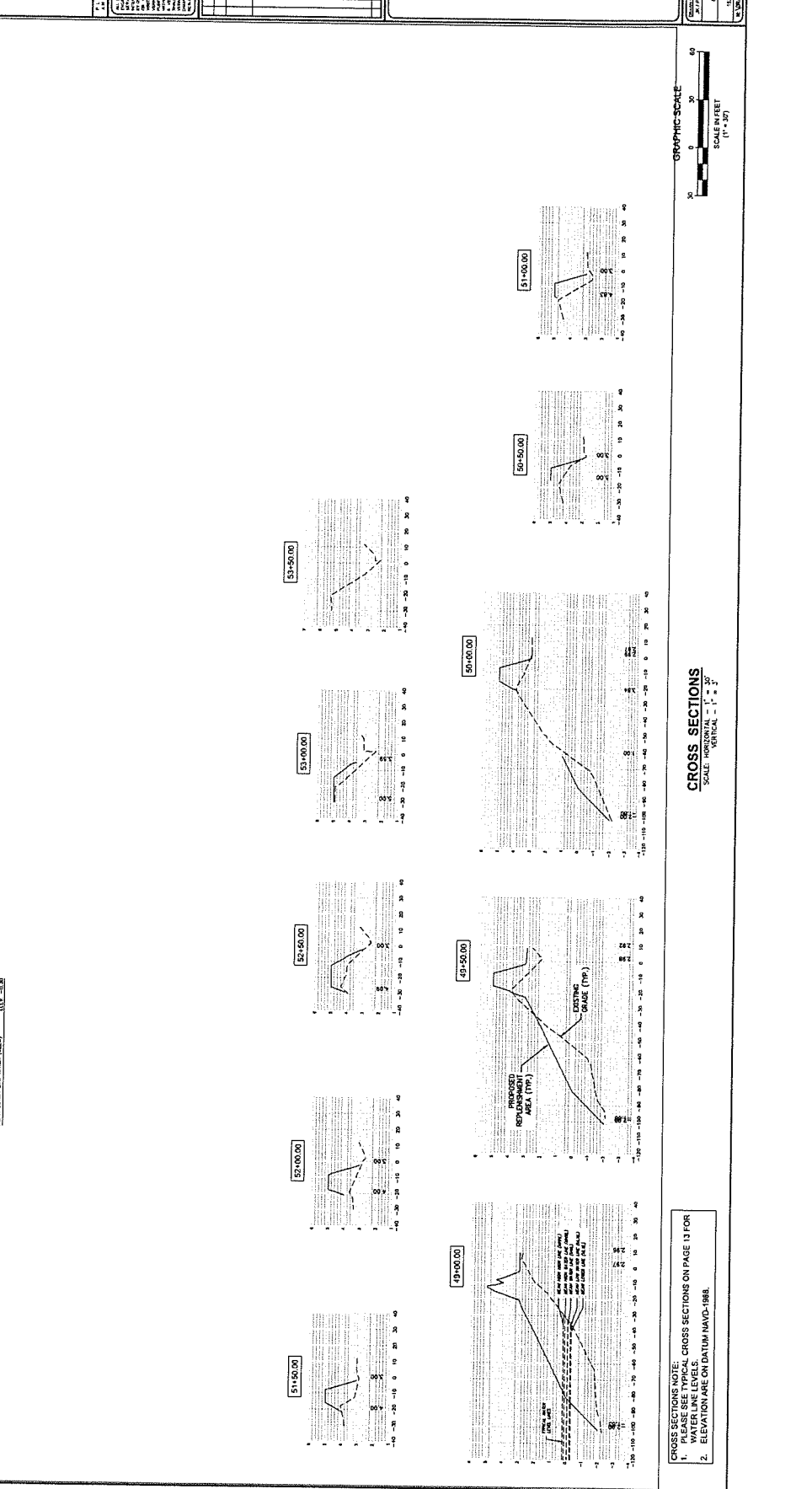
PROFILE NOTE:
 1. OUTFALL SECTION SHOWN ON SHEET 7 OF 18 AT APPROXIMATE STATION 12+90.00
 2. APPROXIMATE STATION 12+90.00
 3. SEE SHEET 14 OF 18 FOR PILE SPACING
 4. SEE DETAIL 'OUTFALL PIPE EXTENSION'

OUTFALL EXTENSION #4
 PROFILE: 0+00 - 1+00
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 2'



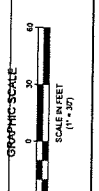
PROFILE NOTE:
 1. OUTFALL SECTION SHOWN ON SHEET 5 OF 18 AT APPROXIMATE STATION 12+75.00
 2. APPROXIMATE STATION 12+75.00
 3. SEE SHEET 14 OF 18 FOR PILE SPACING
 4. SEE DETAIL 'OUTFALL PIPE EXTENSION'

OUTFALL EXTENSION #5
 PROFILE: 0+00 - 1+00
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 2'



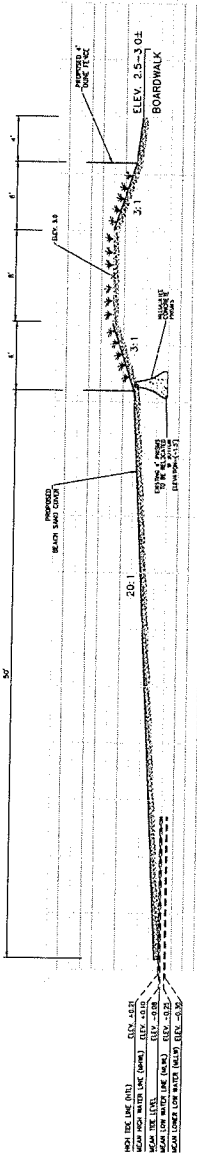
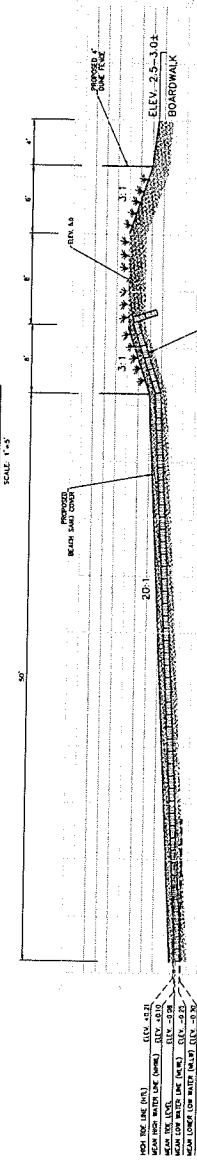
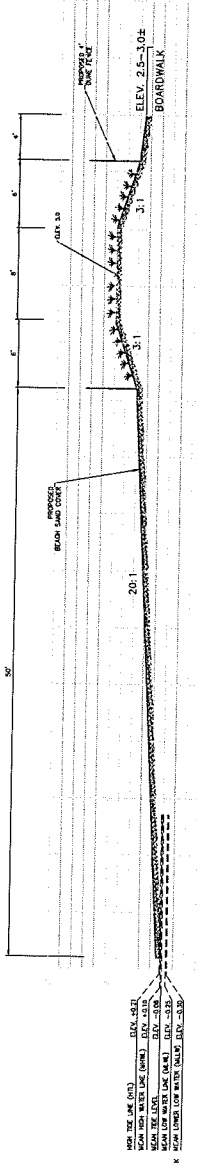
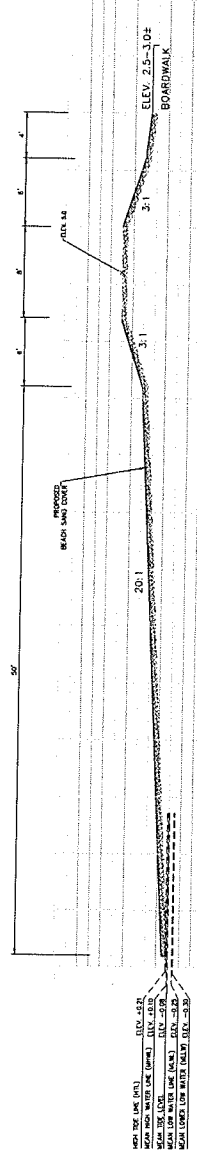
CROSS SECTIONS NOTE:
 1. PLEASE SEE TYPICAL CROSS SECTIONS ON PAGE 13 FOR PILE SPACING
 2. ELEVATIONS ARE ON DATUM NAVD-1988

CROSS SECTIONS
 SCALE: HORIZONTAL - 1" = 20'
 VERTICAL - 1" = 2'

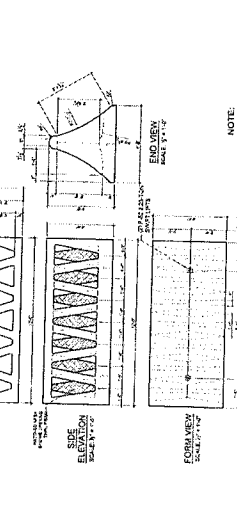
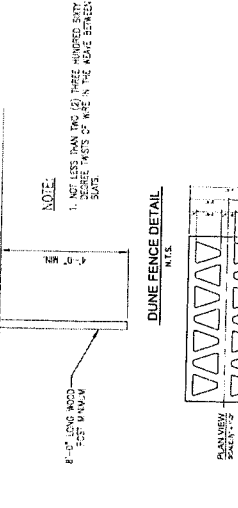
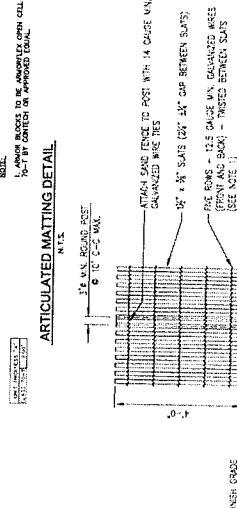
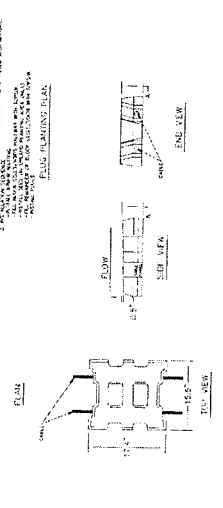
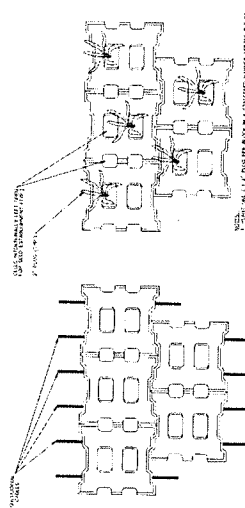


REVISIONS

NO.	DATE	DESCRIPTION
1	11/20/13	ISSUED FOR PERMITS
2	11/20/13	ISSUED FOR PERMITS
3	11/20/13	ISSUED FOR PERMITS
4	11/20/13	ISSUED FOR PERMITS
5	11/20/13	ISSUED FOR PERMITS
6	11/20/13	ISSUED FOR PERMITS
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16	11/20/13	ISSUED FOR PERMITS
17	11/20/13	ISSUED FOR PERMITS
18	11/20/13	ISSUED FOR PERMITS
19	11/20/13	ISSUED FOR PERMITS
20	11/20/13	ISSUED FOR PERMITS



- CROSS SECTION NOTE:**
- STATION 0+00 TO 1+00 IS TYPICAL SECTION "A"
 - STATION 1+00 TO 2+00 IS TYPICAL SECTION "B"
 - STATION 2+00 TO 3+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 3+00 TO 4+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 4+00 TO 5+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 5+00 TO 6+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 6+00 TO 7+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 7+00 TO 8+00 IS TYPICAL SECTION WITH DUNE GRASS
 - STATION 8+00 TO 9+00 IS TYPICAL SECTION WITH DUNE GRASS



NOTE:

1. NOT FOR CONSTRUCTION.

2. REBAR SHALL BE AS SHOWN IN THE DRAWING.

3. ALL REBAR SHALL BE EPOXY COATED.

4. USE EPOXY COATED REBAR ONLY.

5. FINISH GRADE SHALL BE AS SHOWN IN THE DRAWING.

6. ALL CONCRETE SHALL BE 4000 PSI.

7. ALL CONCRETE SHALL BE REINFORCED AS SHOWN IN THE DRAWING.

8. ALL CONCRETE SHALL BE FINISHED WITH A BROOM FINISH.

9. ALL CONCRETE SHALL BE CURED WITH A CURING COMPOUND.

10. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

11. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING MAINTENANCE.

12. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION.

13. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING REPAIR.

14. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING STORAGE.

15. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT.

16. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING INSTALLATION.

17. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING OPERATION.

18. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING DECOMMISSIONING.

19. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING DISPOSAL.

20. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING RECYCLING.



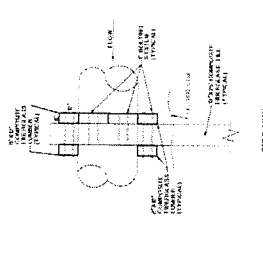
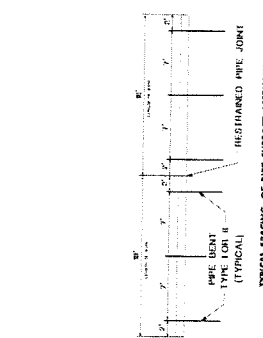
ALAN B. DITTEHOFFER
 PROFESSIONAL ENGINEER, NO. 18172

NO.	DATE	DESCRIPTION
1	08/21/2013	REVISED FOR PERMITS
2	09/10/2013	REVISED FOR PERMITS
3	10/22/2013	REVISED FOR PERMITS
4	11/13/2013	REVISED FOR PERMITS
5	12/10/2013	REVISED FOR PERMITS
6	01/07/2014	REVISED FOR PERMITS
7	02/04/2014	REVISED FOR PERMITS
8	03/03/2014	REVISED FOR PERMITS
9	04/01/2014	REVISED FOR PERMITS
10	05/01/2014	REVISED FOR PERMITS
11	06/01/2014	REVISED FOR PERMITS
12	07/01/2014	REVISED FOR PERMITS
13	08/01/2014	REVISED FOR PERMITS
14	09/01/2014	REVISED FOR PERMITS
15	10/01/2014	REVISED FOR PERMITS
16	11/01/2014	REVISED FOR PERMITS
17	12/01/2014	REVISED FOR PERMITS
18	01/01/2015	REVISED FOR PERMITS
19	02/01/2015	REVISED FOR PERMITS
20	03/01/2015	REVISED FOR PERMITS
21	04/01/2015	REVISED FOR PERMITS
22	05/01/2015	REVISED FOR PERMITS
23	06/01/2015	REVISED FOR PERMITS
24	07/01/2015	REVISED FOR PERMITS
25	08/01/2015	REVISED FOR PERMITS
26	09/01/2015	REVISED FOR PERMITS
27	10/01/2015	REVISED FOR PERMITS
28	11/01/2015	REVISED FOR PERMITS
29	12/01/2015	REVISED FOR PERMITS
30	01/01/2016	REVISED FOR PERMITS
31	02/01/2016	REVISED FOR PERMITS
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33	04/01/2016	REVISED FOR PERMITS
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35	06/01/2016	REVISED FOR PERMITS
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47	06/01/2017	REVISED FOR PERMITS
48	07/01/2017	REVISED FOR PERMITS
49	08/01/2017	REVISED FOR PERMITS
50	09/01/2017	REVISED FOR PERMITS
51	10/01/2017	REVISED FOR PERMITS
52	11/01/2017	REVISED FOR PERMITS
53	12/01/2017	REVISED FOR PERMITS
54	01/01/2018	REVISED FOR PERMITS
55	02/01/2018	REVISED FOR PERMITS
56	03/01/2018	REVISED FOR PERMITS
57	04/01/2018	REVISED FOR PERMITS
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59	06/01/2018	REVISED FOR PERMITS
60	07/01/2018	REVISED FOR PERMITS
61	08/01/2018	REVISED FOR PERMITS
62	09/01/2018	REVISED FOR PERMITS
63	10/01/2018	REVISED FOR PERMITS
64	11/01/2018	REVISED FOR PERMITS
65	12/01/2018	REVISED FOR PERMITS
66	01/01/2019	REVISED FOR PERMITS
67	02/01/2019	REVISED FOR PERMITS
68	03/01/2019	REVISED FOR PERMITS
69	04/01/2019	REVISED FOR PERMITS
70	05/01/2019	REVISED FOR PERMITS
71	06/01/2019	REVISED FOR PERMITS
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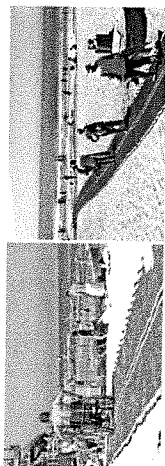
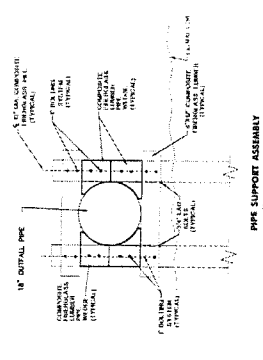
H.M.G.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION
 BOROUGH OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

CONSTRUCTION DETAILS (2)

SHEET NO. 14 of 18
 DATE: 12/13/23
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]



NOTE: SHOW OR APPROVED EQUAL.
OUTFALL PIPE EXTENSION DETAIL
 N.T.S.



Part	Material	Grade	Color	Finish	Width	Length	Height	Notes
1	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
2	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
3	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
4	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
5	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
6	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
7	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
8	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
9	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
10	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
11	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
12	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
13	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
14	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
15	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
16	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
17	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
18	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
19	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			
20	100% Recycled Polypropylene	6.0	Blue/Black	Smooth	24\"/>			

The installation sheet can be downloaded on www.mobilmat.com.
 Discover our complete range on www.mobilmat.com.
 17' x 4.5' with Barbed Wire.

DESCHAMPS
 100% Recycled Polypropylene
 100% Recycled Polypropylene
 100% Recycled Polypropylene
 100% Recycled Polypropylene

BEACH ACCESS RAMP DETAIL
 N.T.S.

BOROUGH OF OCEAN GATE
 OCEAN COUNTY
 NEW JERSEY

RYE
REMINGTON
& VERNICK
ENGINEERS

1000 BROADWAY, SUITE 200
NEW YORK, NY 10018
PHONE: (212) 904-1234 FAX: (212) 904-1234
WWW.RYE.COM

ALAN B. DITTENHOFER
REGISTERED PROFESSIONAL ENGINEER, No. 12192

STATE OF NEW YORK
COUNTY OF NEW YORK
I, ALAN B. DITTENHOFER, a duly licensed Professional Engineer in the State of New York, do hereby certify that I am the author of the design and drawings herein, and that I am a duly licensed Professional Engineer in the State of New York.

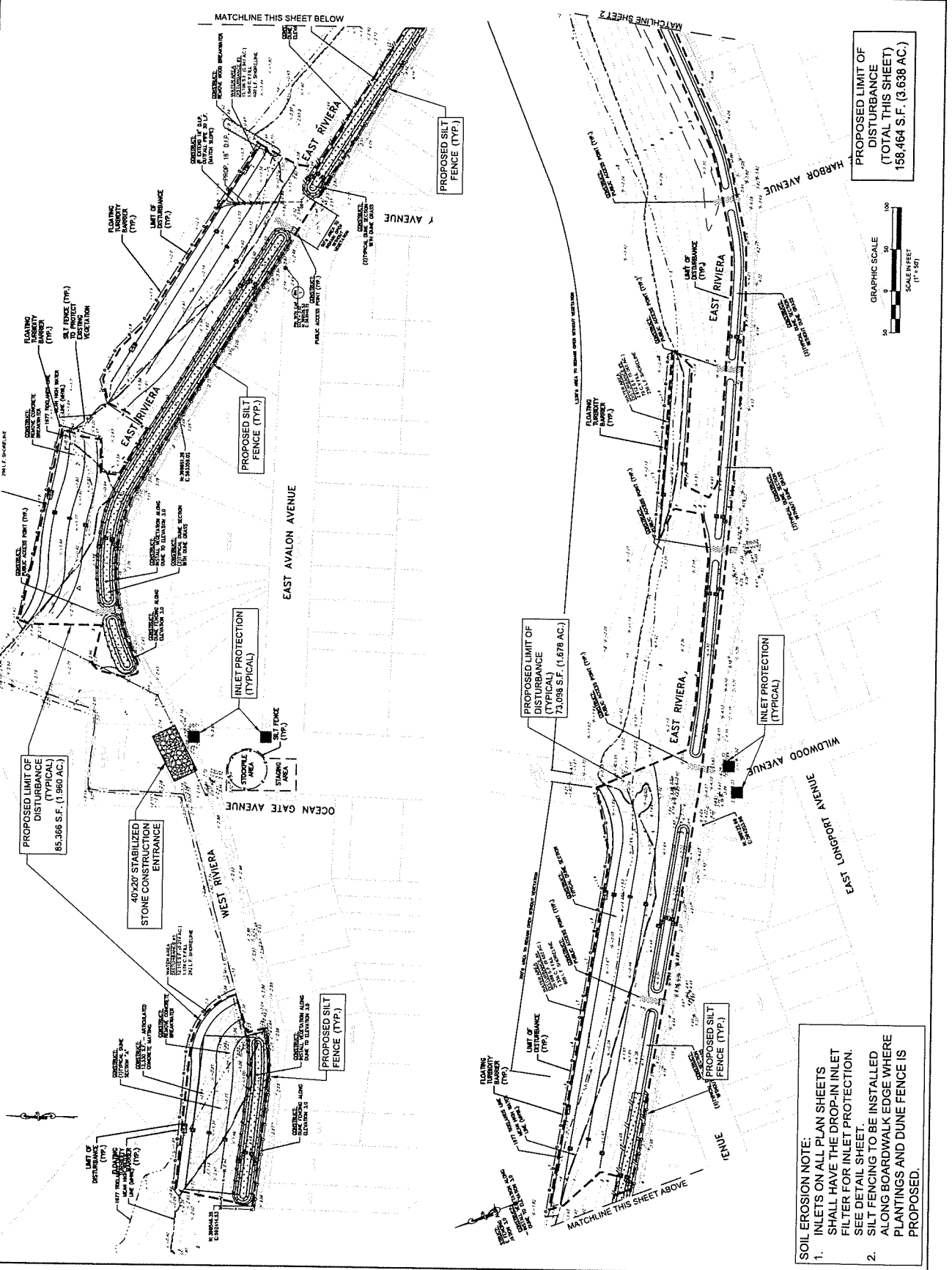
NO.	DATE	REVISION
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2	11-1-20	ISSUED FOR PERMITS
3	11-1-20	ISSUED FOR PERMITS
4	11-1-20	ISSUED FOR PERMITS
5	11-1-20	ISSUED FOR PERMITS
6	11-1-20	ISSUED FOR PERMITS
7	11-1-20	ISSUED FOR PERMITS
8	11-1-20	ISSUED FOR PERMITS
9	11-1-20	ISSUED FOR PERMITS
10	11-1-20	ISSUED FOR PERMITS

SOIL EROSION PLAN (1)

H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION

BOROUGH OF OCEAN GATE
OCEAN COUNTY
NEW JERSEY

DATE: 11-1-20
SCALE: 1" = 50'
SHEET NO. 15 OF 18



SOIL EROSION NOTE:

- INLETS ON ALL PLAN SHEETS SHALL HAVE THE DROP-IN INLET FILTER FOR INLET PROTECTION. SEE DETAIL SHEET.
- SILT FENCING TO BE INSTALLED ALONG BOARDWALK EDGE WHERE PLANTINGS AND DUNE FENCE IS PROPOSED.



REMITTING & VERNICK ENGINEERS
 8 ALLEN STREET
 TOMS RIVER, NJ 08053
 (732) 389-5300 FAX (732) 389-4416
 WWW.REMINGTON-VERNICK.COM
 ENGINEERING EXCELLENCE

Alan B. Dittenhofer
ALAN B. DITTENHOFER
 PROFESSIONAL ENGINEER NO. 181702

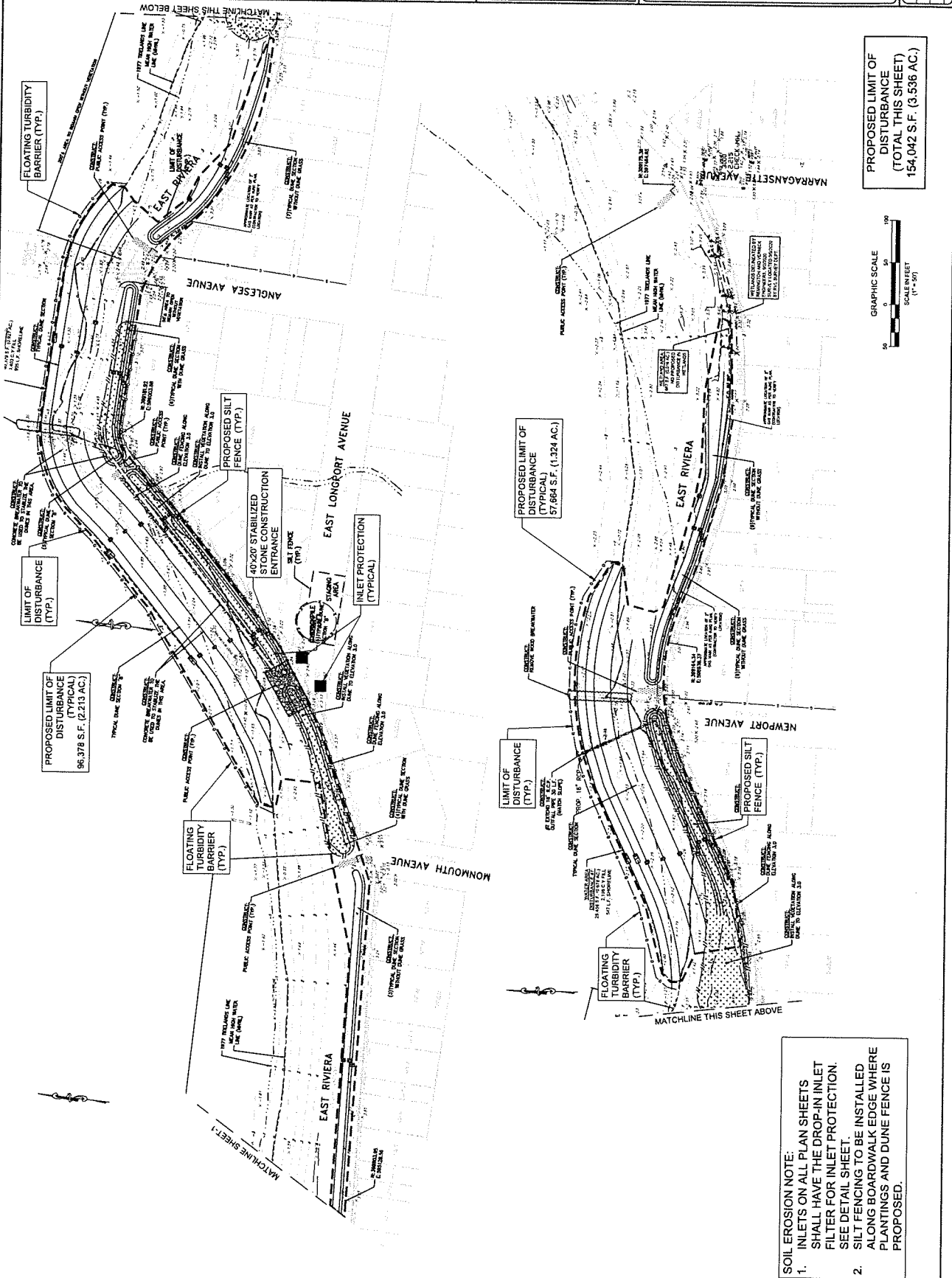
NO.	DATE	DESCRIPTION
1	11/11/2022	ISSUED FOR PERMIT
2	08/24/2022	REVISED FOR COMMENTS
3	08/24/2022	REVISED FOR COMMENTS
4	08/24/2022	REVISED FOR COMMENTS
5	08/24/2022	REVISED FOR COMMENTS
6	08/24/2022	REVISED FOR COMMENTS
7	08/24/2022	REVISED FOR COMMENTS
8	08/24/2022	REVISED FOR COMMENTS
9	08/24/2022	REVISED FOR COMMENTS
10	08/24/2022	REVISED FOR COMMENTS

DATE	11/11/2022
SCALE	AS SHOWN
DRAWN BY	AW/ML
CHECKED BY	AW/ML
DESIGNED BY	AW/ML
PROJECT NO.	2021-0001
CUSTOMER	STATE OF NEW JERSEY
PROJECT	H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
CITY	OCEAN COUNTY
COUNTY	OCEAN COUNTY
STATE	NEW JERSEY

SOIL EROSION PLAN (2)

BOUNDARY OF OCEAN STATE
 H.M.G.P. WAVE ENERGY DISSIPATION
 AND FLOOD MITIGATION
 BOUNDARY OF OCEAN STATE

DATE: 11/11/2022
 SCALE: AS SHOWN
 DRAWN BY: AW/ML
 CHECKED BY: AW/ML
 DESIGNED BY: AW/ML
 PROJECT NO.: 2021-0001
 CUSTOMER: STATE OF NEW JERSEY
 PROJECT: H.M.G.P. WAVE ENERGY DISSIPATION AND FLOOD MITIGATION
 CITY: OCEAN COUNTY
 COUNTY: OCEAN COUNTY
 STATE: NEW JERSEY

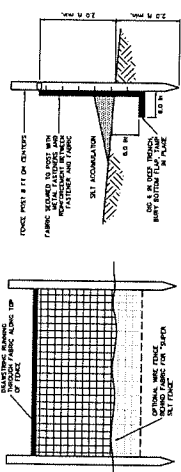


PROPOSED LIMIT OF DISTURBANCE (TOTAL THIS SHEET) 154,042 S.F. (3,536 AC.)

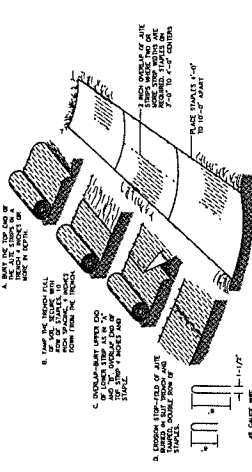
SOIL EROSION NOTE:

- INLETS ON ALL PLAN SHEETS SHALL HAVE THE DROP-IN INLET FILTER FOR INLET PROTECTION. SEE DETAIL SHEET.
- SILT FENCING TO BE INSTALLED ALONG BOARDWALK EDGE WHERE PLANTINGS AND DUNE FENCE IS PROPOSED.

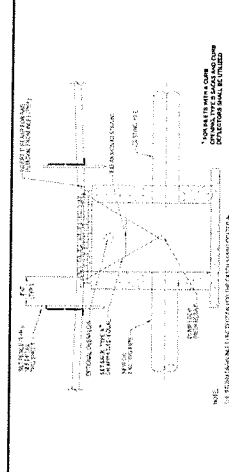
SOIL EROSION AND SEDIMENT CONTROL DETAILS



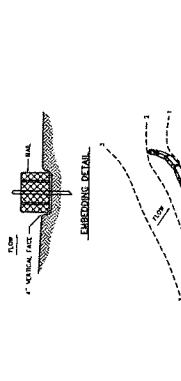
SILT FENCE DETAIL
N.T.S.



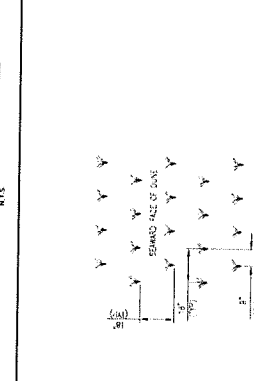
SOIL STABILIZATION MATTING DETAIL
N.T.S.



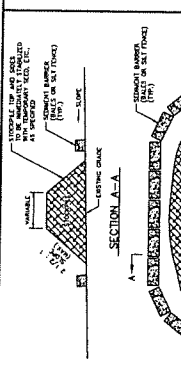
INLET SEDIMENT CONTROL DETAIL
N.T.S.



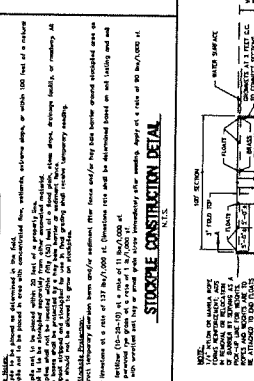
BALE SEDIMENT BARRIERS PLACEMENT AND ANCHORING DETAIL
N.T.S.



TYPICAL DUNE PLANTINGS
N.T.S.



STOCKPILE CONSTRUCTION DETAIL
N.T.S.



ROATING TURBIDITY BARRIER DETAIL
N.T.S.

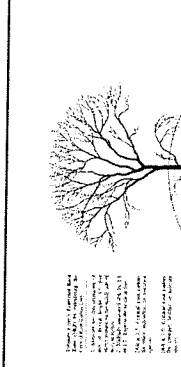
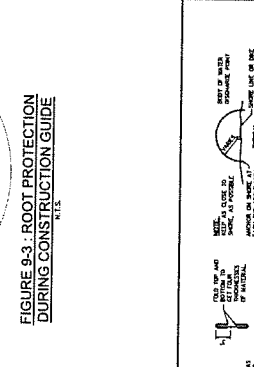
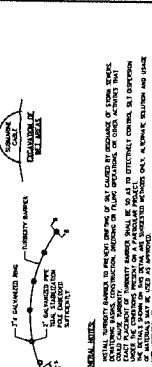


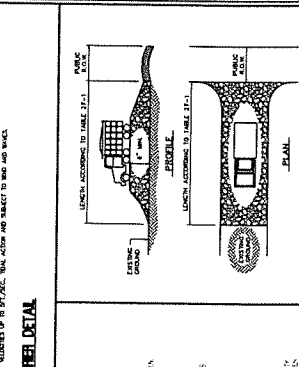
FIGURE 9-3: ROOT PROTECTION DURING CONSTRUCTION GUIDE
N.T.S.



ENTRANCE CONSTRUCTION DETAIL
N.T.S.



DUNE FENCE DETAIL
N.T.S.



SOIL EROSION DETAILS
N.T.S.

RVE
REMINGTON & VERNICK ENGINEERS
9 ALLEN STREET
TOWSON, MD 21286
(410) 281-1100
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ALAN B. BITTEMHOFF
PROFESSIONAL ENGINEER, No. 7912

NO.	DATE	DESCRIPTION
1	10/1/2023	ISSUED FOR PERMIT
2	10/1/2023	ISSUED FOR PERMIT
3	10/1/2023	ISSUED FOR PERMIT
4	10/1/2023	ISSUED FOR PERMIT
5	10/1/2023	ISSUED FOR PERMIT
6	10/1/2023	ISSUED FOR PERMIT
7	10/1/2023	ISSUED FOR PERMIT
8	10/1/2023	ISSUED FOR PERMIT
9	10/1/2023	ISSUED FOR PERMIT
10	10/1/2023	ISSUED FOR PERMIT

THESE DETAILS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF RVE ENGINEERS.

NO.	DATE	DESCRIPTION
1	10/1/2023	ISSUED FOR PERMIT
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3	10/1/2023	ISSUED FOR PERMIT
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8	10/1/2023	ISSUED FOR PERMIT
9	10/1/2023	ISSUED FOR PERMIT
10	10/1/2023	ISSUED FOR PERMIT

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

DATE	10/1/2023
SCALE	AS SHOWN
PROJECT NO.	23-001
DATE PLOTTED	10/1/2023
SCALE	AS SHOWN
PROJECT NO.	23-001
DATE PLOTTED	10/1/2023