

- i. THE PURPOSE OF THIS PLAN IS TO SUPPORT A NJDEP MULTI-PERMIT APPLICATION FOR THE FOLLOWING PERMITS:
 - i. CAFRA INDIVIDUAL PERMIT
 - ii. WATERFLOOD DEVELOPMENT IN-WATER INDIVIDUAL PERMIT
 - iii. FLOOD HAZARD AREA VERIFICATION METHOD 2
2. PERMIT PLAN BASE INFORMATION TAKEN FROM PLANS ENTITLED "BULKHEAD REPLACEMENT PROJECT BLOCK 567 LOT 2 CITY OF ATLANTIC CITY, NJ," DATED DECEMBER 20, 2023, PREPARED BY S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS AND "BULKHEAD REPLACEMENT PROJECT FOR ATLANTIC SHORES OFFSHORE WIND, LLC," DATED DECEMBER 20, 2023, PREPARED BY S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS.
3. BOUNDARY INFORMATION SHOWN IS BASED ON SURVEY ENTITLED, "ALTANPS LAND SURVEY BLOCK 567 LOT 2, CITY OF ATLANTIC CITY, ATLANTIC COUNTY, N.J.," DATED 06/30/2021, PREPARED BY PAULUS, SOKOLOWSKI AND SARTOR, LLC.
4. HORIZONTAL CONTROL IS BASED ON DEED BOOK 3086, PAGE 47 (LOT 2), VERTICAL DATUM BASED ON NAVD83, PER PLANS ENTITLED, "ALTANPS LAND SURVEY BLOCK 567 LOT 2, CITY OF ATLANTIC CITY, ATLANTIC COUNTY, N.J.," DATED 06/30/2021, PREPARED BY PAULUS, SOKOLOWSKI AND SARTOR, LLC.
5. WETLANDS: NO WETLAND DELINEATION HAS BEEN PERFORMED FOR THE SITE.
6. EXCEPT WHERE SPECIFICALLY NOTED, EXISTING FEATURES ARE SHOWN IN HALF-TONE AND PROPOSED FEATURES ARE SHOWN IN FULL TONE.
7. THE LIMIT OF THE FLOOD HAZARD AREA AZE AND HIGH WATER LINE SHOWN IS PER METHOD 2 - FEMA DATED, METHOD, BASED ON THE REVISED PRELIMINARY FEMA FLOOD INSURANCE RATE MAP FOR ATLANTIC COUNTY, NEW JERSEY, PANEL NUMBER 40001C03436, ISSUED JANUARY 30, 2015. THE FLOOD HAZARD AREA AZE SUBJECT SITE TO THE BASE OF THE PRELIMINARY FEMA MAP IS 10' NAVD'83, EQUAL TO THE FLOOD ZONE A-E ELEVATION PER N.J.A.C. 7-13.3 (4)(D).
8. HORIZONTAL DATUM REFERS TO N STATE PLANE COORDINATE SYSTEM NAD-83. VERTICAL DATUM REFERS TO NAVD-88.
9. STATE PLANE COORDINATES FOR APPROXIMATE CENTROID OF SITE IS N 512282 E 197418.
10. THIS PLAN IS FOR PERMITTING PURPOSES ONLY, AND SHALL NOT BE UTILIZED FOR CONSTRUCTION UNLESS IT IS SPECIFICALLY LABELED "ISSUED FOR CONSTRUCTION".
11. EXISTING SITE IMPERVIOUS COVERAGE IS 0.80 AC. TOTAL PROPOSED IMPERVIOUS COVERAGE IS 0.04 AC.
12. AS SHOWN ON ATLAS SHEET NO. 196-2064 "MAP SHOWING CONVEYANCE ON ASBECOM CHANNEL" PREPARED BY THE NJDEP BUREAU OF TIDELANDS MANAGEMENT, THE STATE OF NEW JERSEY GRANTED TIDELANDS INCLUDING AND INCLUDING THE SUBJECT SITE TO THE CITY OF ATLANTIC CITY ON 3/15/1920, LIBER A-1, PG. 16, FOR THE CONSIDERATION OF \$18,000.00, FILE: 1276.
13. THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA AND/OR RIPARIAN ZONE. CERTAIN ACTIVITIES AND/OR CONSTRUCTION PROHIBITED IN THESE ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONSULT THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND LAND USE REGULATION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
14. THE MEAN HIGH WATER LINE IS 1.57 FEET (NAVD-88). THE MEAN LOW WATER LINE IS -2.45 FEET (NAVD-88)
15. SEE PLANS ENTITLED "BULKHEAD REPLACEMENT PROJECT BLOCK 567, LOT 2, CITY OF ATLANTIC CITY, NJ," DATED DECEMBER 20, 2023, PREPARED BY S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS AND "BULKHEAD REPLACEMENT PROJECT FOR ATLANTIC SHORES OFFSHORE WIND, LLC," DATED DECEMBER 20, 2023, PREPARED BY S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS FOR BULKHEAD DESIGN & INSTALLATION DETAILS.
16. PROJECT IS NOT A MAJOR DEVELOPMENT. LESS THAN ONE (1) ACRE IS DISTURBED AND LESS THAN 4% IMPERVIOUS COVERAGE.
17. ALL EXISTING SITE COMPONENTS REMAINS TO BE DEMOLISHED AND REMOVED.

1. A SOIL EROSION AND SEDIMENT CONTROL PERMIT MUST BE OBTAINED PRIOR TO CONSTRUCTION, FROM THE CAPE ATLANTIC SOIL CONSERVATION DISTRICT.
2. THE PROPOSED CONSTRUCTION ACTIVITIES ARE NOT ANTICIPATED TO CAUSE ANY ADVERSE IMPACTS ON PROPERTIES NOT OWNED BY THE APPLICANT.
3. ANY EXCAVATION, FILL OR GRADING ACTIVITIES SHALL NOT IMPEDE THE OVERLAND FLOW OF FLOODWATERS
4. SOLID WASTE AND RECYCLABLE MATERIALS SHALL NOT BE STORED IN REGULATED AREAS, INTERNAL PROPOSED.

THE SUBJECT PROPERTY IS LOCATED WITHIN A NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION FLOOD HAZARD AREA AND IS SUBJECT TO APPROVAL UNDER THE FOLLOWING FLOOD HAZARD AREA PERMIT-BY-RULE AND INDIVIDUAL PERMITS"

N.J.A.C. 7:13-12.1 - REQUIREMENTS FOR ALL REGULATED ACTIVITIES
 N.J.A.C. 7:13-12.3 - REQUIREMENTS FOR EXCAVATION, FILL AND GRADING ACTIVITIES
 N.J.A.C. 7:13-12.4 - REQUIREMENTS FOR A STRUCTURE
 N.J.A.C. 7:13-12.13 - REQUIREMENTS FOR A RETAINING WALL OR BULKHEAD
 N.J.A.C. 7:13-12.21- REQUIREMENTS FOR THE REMOVAL OF EXISTING FILL OR AN EXISTING STRUCTURE

THE FOLLOWING CONDITIONS SHALL BE ADHERED TO IN THE DESIGN AND CONSTRUCTION OF THE PROPOSED FACILITIES:

1. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AROUND THE PROPOSED CONSTRUCTION SUFFICIENT TO PREVENT SEDIMENT FROM ENTERING ANY ADJACENT WETLAND ZONE OR CHANNEL OUTSIDE THE CONSTRUCTION AREA;
2. IF CONSTRUCTION IS PROPOSED IN A CHANNEL, SEDIMENT CONTROL MEASURES, SUCH AS COFFER DAMS, SHALL BE INSTALLED AROUND THE ACTIVITY SUFFICIENT TO PREVENT FLOWING WATER FROM COMING IN CONTACT WITH CONSTRUCTION FOR THE DURATION OF THE PROJECT WHERE FEASIBLE;
3. ALL SLOPES SHALL BE GRADED AND STABILIZED TO PREVENT POST-CONSTRUCTION EROSION; AND
4. PERMANENT, NATIVE, NON-INVASIVE PLANT SPECIES SHALL BE ESTABLISHED ON ALL EXPOSED SOILS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION. THE MONITOR AND MAINTAIN ALL SUCH VEGETATION FOR AT LEAST THREE GROWING SEASONS TO ENSURE PROPER ESTABLISHMENT AND SURVIVAL.

1. ALL OVERLAND FLOW OF STORMWATER SHALL NOT BE IMPEDED AND FLOODWATERS SHALL BE ABLE TO FREELY ENTER AND EXIT THE DISTURBED AREA.
2. NO SLOPES SHALL EXCEED 50% AT ANY TIME.
3. ALL EXCAVATION, FILL AND/OR GRADING SHALL NOT UNDERMINE OR ENDANGER THE INTEGRITY OF ANY EXISTING STRUCTURES.
4. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF OUTSIDE OF ANY REGULATED AREA AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.

1. RESIST IMPACT FROM WATER AND DEBRIS DURING THE FLOOD HAZARD ARE DESIGN FLOOD;
2. RESIST UPLIFT, FLOTATION, COLLAPSE AND DISPLACEMENT DUE TO HYDROSTATIC AND HYDRODYNAMIC FORCES RESULTING FROM THE FLOOD HAZARD ARE DESIGN FLOOD;
3. RESIST OVERTURNING AND SLIDING PRESSURE, AS WELL AS PRESSURE FROM THE FREEZE/THAW CYCLE OF THE SOIL.

1. THE RETAINING WALL OR BULKHEAD IS DESIGNED WITH STABLE FOOTING. IN GENERAL, FOOTINGS SHALL EXTEND AT LEAST THREE FEET BELOW GRADE, UNLESS SUCH FOOTINGS ARE NOT POSSIBLE TO CONSTRUCT OR NECESSARY FOR STABILITY.
2. THE RETAINING WALL OR BULKHEAD IS DESIGNED TO WITHSTAND DISTURBANCE FROM SLIDING, UPLIFT, AND FAILURE DUE TO UNDERMINING AND/OR PRESSURE FROM SOIL, WATER, AND FROST; AND
3. IF LOCATED WITHIN A REGULATED WATER OR WITHIN 25 FEET OF ANY TOP OF BANK, THE RETAINING WALL OR BULKHEAD IS DESIGNED TO BE RESISTANT TO EROSION AS WELL AS THE POSSIBILITY OF A SHIFTING BED AND/OR BANK OVER TIME.

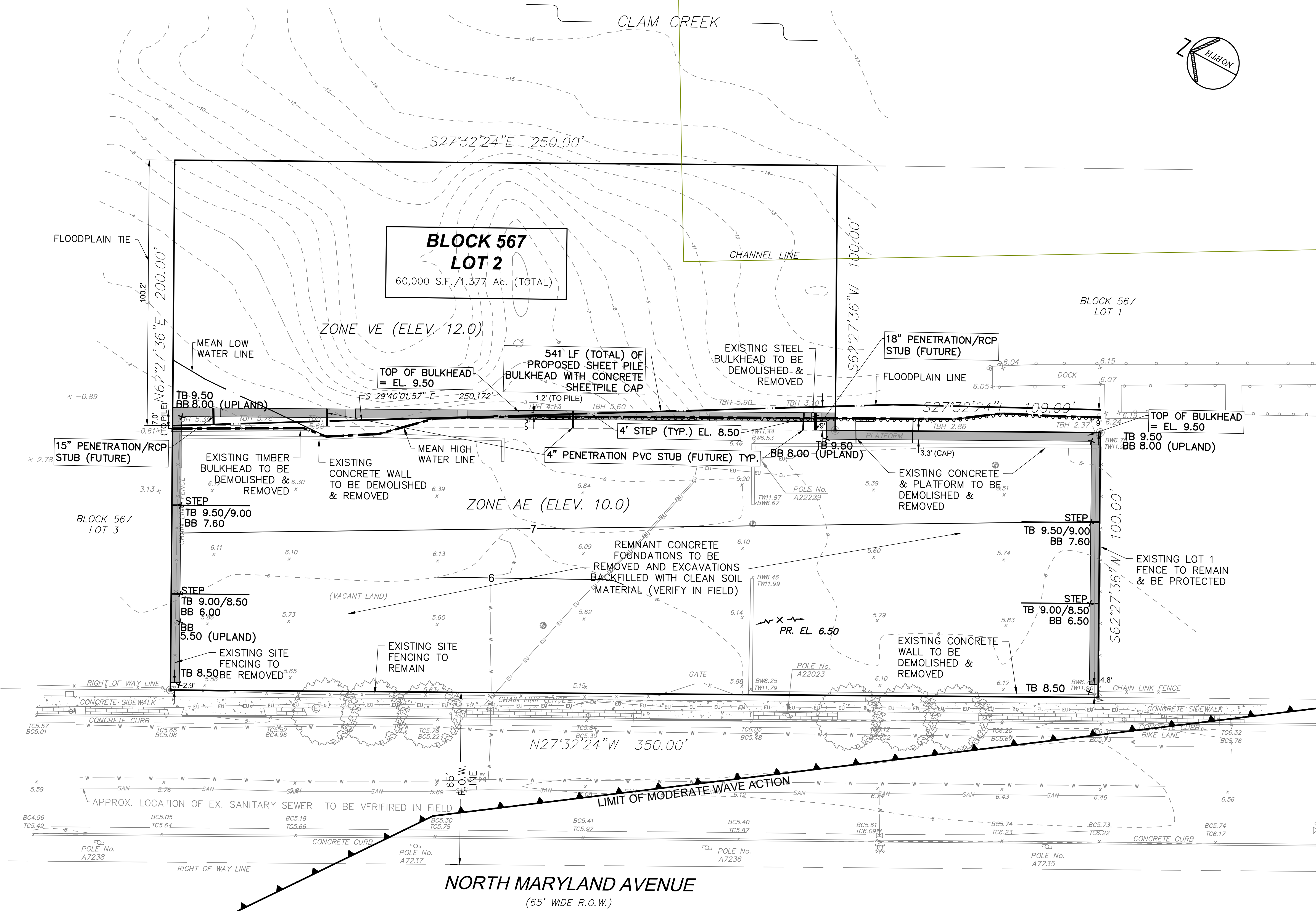
2. ALL DISTURBED REGULATED AREAS ARE PROPERLY STABILIZED;
3. IF THE FILL OR STRUCTURE TO BE REMOVED LIES IN A FLOODWAY, THE APPLICANT DEMONSTRATES THROUGH A HYDRAULIC ANALYSIS THAT THE REMOVAL WILL NOT ADVERSELY IMPACT A PROPERTY NOT OTHERWISE APPLICANT'S ADJACENT TO N.J.A.C. 7:23-2.1(a)(1)(viii);
4. IF THE APPLICANT REQUESTS A REMOVAL OF A FILL OR STRUCTURE, UNLESS THE DEPARTMENT DETERMINES, BASED ON A VISUAL INSPECTION OF SUBMITTED SITE PLANS AND WITHOUT A REVIEW OF CALCULATIONS, THAT THE PROPOSED REMOVAL POSES NO THREAT TO OFFSITE PROPERTIES;
5. ANY REMOVED FILL IS DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS;
6. ANY REMOVED STRUCTURE IS DISPOSED OF OUTSIDE OF ANY REGULATED AREA AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.

1. TOTAL AREA TO BE FILLED = 1,082 SF.
2. SIZE OF UNDERWATER AREA TO BE FILLED = 1,082 SF.
3. AREA OF INTERTIDAL ZONE TO BE FILLED = 0 SF.
4. AREA OF WETLANDS TO BE FILLED = 0 SF.
5. PROPOSED HEIGHT OF FILL = 18" (AVERAGE).
6. VOLUME OF MATERIAL THAT WILL BE USED IN FILLING = 74.6 CY.

1. PROPOSED BULKHEAD BACKFILL SHALL CONSIST OF SELECT BACKFILL IN ACCORDANCE WITH NDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. BACKFILL MATERIAL SHALL BE PROVIDED BY A NDOT APPROVED QUARRY.
3. PROPOSED BACKFILL SHALL BE CERTIFIED CLEAN, FREE OF LEACHATES.
4. PROPOSED BACKFILL SHALL BE PLACED BY MACHINE OR HAND IN 18" LIFTS (MAX) OR AS SPECIFIED IN THE NDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING CONDITIONS ON SITE AND ADJACENT PROPERTY INCLUDING BANK EROSION, SLOUGHING, WAVE ACTION AND BOAT WAKES.
6. PROPOSED FINISHED GRADE SHALL BE STABILIZED WITH CONTRACTOR SEED MIX (WITH FERTILIZER AND MULCH).
7. THE CONTRACTOR SHALL COMMENCE WORK AND INSTALL THE PROPOSED BULKHEAD AS A CONTINUOUS INSTALLATION WITHIN A 6 MONTH PERIOD, INCLUDING PROPERTY RESTORATION AND STABILIZATION.
8. PROPOSED BULKHEAD IS TO BE PILE DRIVEN WITH NO FILLING.



SOURCE: REVISIED FEMA FLOOD INSURANCE RATE MAP
FOR ATLANTIC COUNTY, NEW JERSEY, PANEL NUMBER
34001C03436, ISSUED JANUARY 30, 2015
SCALE: 1" = 1000'

[illegible]

EXISTING	LEGEND	PROPOSED
	PROPERTY LINE	
	IRON PIPE/IRON PIN	
	CURB	
	DEPRESSED/FLUSH CURB	
	SIDEWALK	
	LIGHT POLE	
	SIGN	
	TREE	
	FENCE	
	CONTOUR MAJOR	
	CONTOUR MINOR	
	SPOT ELEVATION	
	FLOODPLAIN	
	LIMIT OF MODERATE WAVE ACTION	
	MEAN LOW WATER LINE	
	MEAN HIGH WATER LINE	
	WATER LINE	
	WATER VALVE	
	FIRE HYDRANT	
	UNDERGROUND ELECTRIC	
	UTILITY POLE	
	ELECTRIC MANHOLE	
	MONITORING WELL	
	STEEL BULKHEAD	
	DOCK	

TRACT AREA	
LOT NO.	AREA
2	1.38 AC

MEAN HIGH WATER ELEVATION = 1.57 (NAVD-88)
MEAN LOW WATER ELEVATION = -2.45 (NAVD-88)


NOTES:
1. MEAN HIGH WATER ELEVATION INFORMATION TAKEN FROM NOAA TIDE GAGE STATION ID 8534720 (ATLANTIC SURVEY). USING THE 1983-2001 EPOCH. NOAA HAS ESTABLISHED ELEVATION 1.57 FEET (NAVD88) AS THE APPROXIMATE MEAN HIGH WATER ELEVATION.

NJDEP APPROVAL STAMP

REV. / ISSUE	DATE	DESCRIPTION
REV. 0	12/20/2023	ISSUED FOR REGULATORY REVIEW

NORTH ARROW /
GRAPHIC SCALE

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

OWNER

ATLANTIC SHORES
offshore wind

PAULUS, SOKOLOWSK

1450 ROUTE 34
WALL, NJ 07753
PHONE: (732) 363-5850

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS.

THE COPYING AND/OR MODIFICATION OF THIS DOCUMENT OR ANY PORTION THEREOF WITHOUT THE WRITTEN PERMISSION OF PAULUS, SOKOLOWSKI AND SARTOR, LLC, IS PROHIBITED.

UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.

WILLIAM SALMON, P.E.
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319

SIGNATURE _____ DATE _____

PROJECT

ATLANTIC SHORES
OFFSHORE WIND
SERVICES, LLC
BULKHEAD
REPLACEMENT PROJECT

801 NORTH MARYLAND AVENUE BLOCK 587 LOT 2
CITY OF ATLANTIC CITY, ATLANTIC COUNTY, NEW JERSEY

SHEET TITLE

NJDEP
PERMIT PLAN

PROJECT NO.: 06646.0001	DRAWN BY: JM
SCALE: 1"=20'	CHECKED BY: WS
DATE: 12/20/2023	SHEET 1 OF 1
SHEET NO.	