

**SCALE: 1"=5000'**

no.	date	by	ckd	description
0	07/20/2022	AG	JSL/KH	ISSUED FOR PERMIT REVIEW AND APPROVAL
1	11/14/2022	AG	JSL/KH	REVISED TO ADDRESS NUDEP DEFICIENCY COMMENTS
2	1/05/2023	AG	JSL/KH	UPDATED ROUTE AND STATION AND RE- ISSUED FOR PERMIT REVIEW AND APPROVALS
3	4/11/2023	AG	JSL/KH	REVISED TO ADDRESS NUDEP COMMENTS ISSUED FOR PERMITS
4	6/12/2023	AG	JSL/KH	REVISED TO ADDRESS NMCOR COMMENTS ISSUED FOR PERMITS

NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM. HORIZONTAL DATUM - NAD 83 (2011)  
VERTICAL DATUM - NAVD83  
UNITS - U.S. FOOT  
PROJECT COMBINED GRID SCALE FACTOR = 0.99989378
2. VERTICAL DATUM CONVERSION:  
NAD83 - 1983 - 125.7
3. PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH NEW JERSEY COASTAL ZONE MANAGEMENT RULES AT N.J.A.C. 7:27-1. AND NEW JERSEY FRESHWATER WETLANDS PROTECTION ACT RULES AT NJAC 7:27-1. AND NEW JERSEY FLOOD HAZARD AREA CONTROL ACT RULES AT N.J.A.C. 7:13-1.1 ET. SEQ.
4. ONLY ONE WORKING L.L.C. LAND RIGHTS HAVE BEEN SURVEYED. ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
5. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY. ACCORDING TO N.J.A. 4:8-2.7 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 TO LOCATE ANY OF THE UNDERGROUND UTILITY LOCATIONS THAT ARE NOT IN THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
6. RIPARIAN MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS, TRANSITION AREAS, AND RIPARIAN AREAS) AND TO PROVIDE A BUFFER BETWEEN THESE AREAS AND UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF THE STATE OF NEW JERSEY, THE CONTRACTOR MAY REMOVE IN LIEU OF RIPARIAN MATTING FOR TEMPORARY ACCESS ROADS AND WORK AREAS. THERE ARE NO WETLANDS OR RIPARIAN AREAS THAT ARE NOT THREATENED/ ENDANGERED SPECIES HABITAT OR VERNAL HABITAT. GRAVEL, OVER FILTERED FIBRIC IS NOT PERMITTED IN WETLANDS, RIPARIAN AREAS, OR VERNAL HABITAT. THERE ARE NO THREATENED/ ENDANGERED SPECIES HABITAT OR A VERNAL HABITAT. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN NEW JERSEY.
7. THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE PROHIBITED BY THE STATE OF NEW JERSEY. THE CONTRACTOR'S ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED BY THE STATE OF NEW JERSEY. THE CONTRACTOR SHALL OBTAIN THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-4544 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION NOTICE.
8. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL LOCATION OF PROPERTY IMPROVEMENTS WILL BE DETERMINED BY THE ENGINEER UPON AWARD OF CONTRACT. THE ORIGINAL SIGNED DOCUMENT WITH RADIALLY DATED SEAL SHALL BE SUBMITTED TO THE ENGINEER.
9. MET WETLAND ZONE HEREON WERE DETERMINED BY HDR JUNE 10, 2018, AND LOCATED BY NJ LICENSED LAND SURVEYOR GEORGE W. COOPER. WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY STATE OF NEW JERSEY DIVISION OF LAND RESOURCE PROTECTION WETLANDS WITH PROPOSED ONSHORE CONSTRUCTION AREA. CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED BY NJDEP DIVISION OF LAND RESOURCE PROTECTION ON 05/01/2018. SHAPESFILES PROVIDED BY NJDEP DIVISION OF LAND RESOURCE PROTECTION ON 05/01/2018.

## REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

**FOR PERMITTING APPROVAL**

# Ocean Wind 1

**N.J. ENGINEERING CERTIFICATE OF  
AUTHORIZATION No. 24GA28118200**

**E 2 PROJECT MANAGEMENT LLC**

37 HIBERNIA AVENUE FORM

ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
[www.E2PM.com](http://www.E2PM.com)



THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPURTENANT. THIS DRAWING AND THE DESIGN FEATURES OR CONSTRUCTION DISCLOSED ARE PROPRIETARY TO E2 PROJECT MANAGEMENT LLC AND SHALL NOT BE REPRODUCED, ALTERED OR COPIED WITHOUT WRITTEN PERMISSION. SHALL NOT BE USED IN ANY MANNER DETRIMENTAL TO ITS INTEREST AND SHALL BE RETURNED UPON REQUEST.

date	detailed
7/20/22	APG
designed	checked
JMS	KLH/JMS

## KEY MAP

**OCEAN WIND OFFSHORE WIND PROJECT**

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project	
P-21-03-26	

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drawing
rev.

**OL-OC001 - 4**

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**LEGEND**

	PROPOSED EXPORT CABLE
	PROPOSED EXPORT CABLE (HDD)

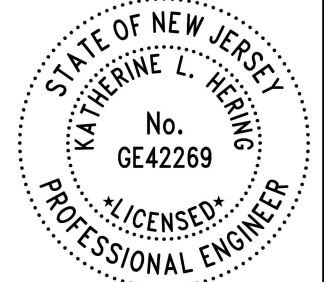
NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE

	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL	UPLAND MEADOW	TOTAL
<b>COASTAL WETLANDS (1970 ACT)</b>						
PERMANENT				245272 SQ.FT. 5.630 ACRES		245272 SQ.FT. 5.630 ACRES
TEMPORARY						
<b>FRESHWATER WETLANDS</b>						
PERMANENT	2573 SQ.FT. 0.059 ACRES		53164 SQFT 1.220 ACRE			55737 SQ.FT 1.279 ACRE
TEMPORARY			376 SQ.FT. 0.008 ACRES			376 SQ.FT. 0.008 ACRES
<b>UNMAPPED COASTAL WETLANDS TRANSITION AREA</b>						
PERMANENT	563 SQ.FT. 0.013 ACRES			28041 SQ.FT . 0.643 ACRES	16936 SQ.FT. 0.389 ACRES	45540 SQ.FT. 1.045 ACRES
TEMPORARY						
<b>FRESHWATER WETLANDS TRANSITION AREA</b>						
PERMANENT	55369 SQ.FT 1.272CREs			86554 SQ.FT 1.988 ACRES		141913 SQ.FT 3.259 ACRES
TEMPORARY		23525 SQFT 0.540 ACRES	5226 SQ.FT. 0.120 ACRES			28751 SQ.FT. 0.660 ACRES
<b>STATE OPEN WATERS</b>						
PERMANENT						
TEMPORARY	3063 SQ.FT 0.070 ACRES					3063 SQ.FT 0.070 ACRES
<b>RIPARIAN ZONE</b>						
PERMANENT				71246 SQ.FT 1.636 ACRES		71246 SQ.FT. 1.636 ACRES
TEMPORARY						

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE

	MIXED PINE BARRENS/ OAK DOMINATED FOREST	PINE BARRENS FOREST	UPLAND FOREST	UPLAND MEADOW/EARLY SUCCESSIONAL FOREST	TOTAL
<b>WOODY VEGETATION CLEARING</b>					
GROSS AREAS	117281 SQ.FT. 1,020,450 SQ.FT.	8104 SQ.FT. 9,040,000 SQ.FT.	40469 SQ.FT. 9,040,000 SQ.FT.	536323 SQ.FT. 9,040,000 SQ.FT.	702177 SQ.FT. 9,040,000 SQ.FT.

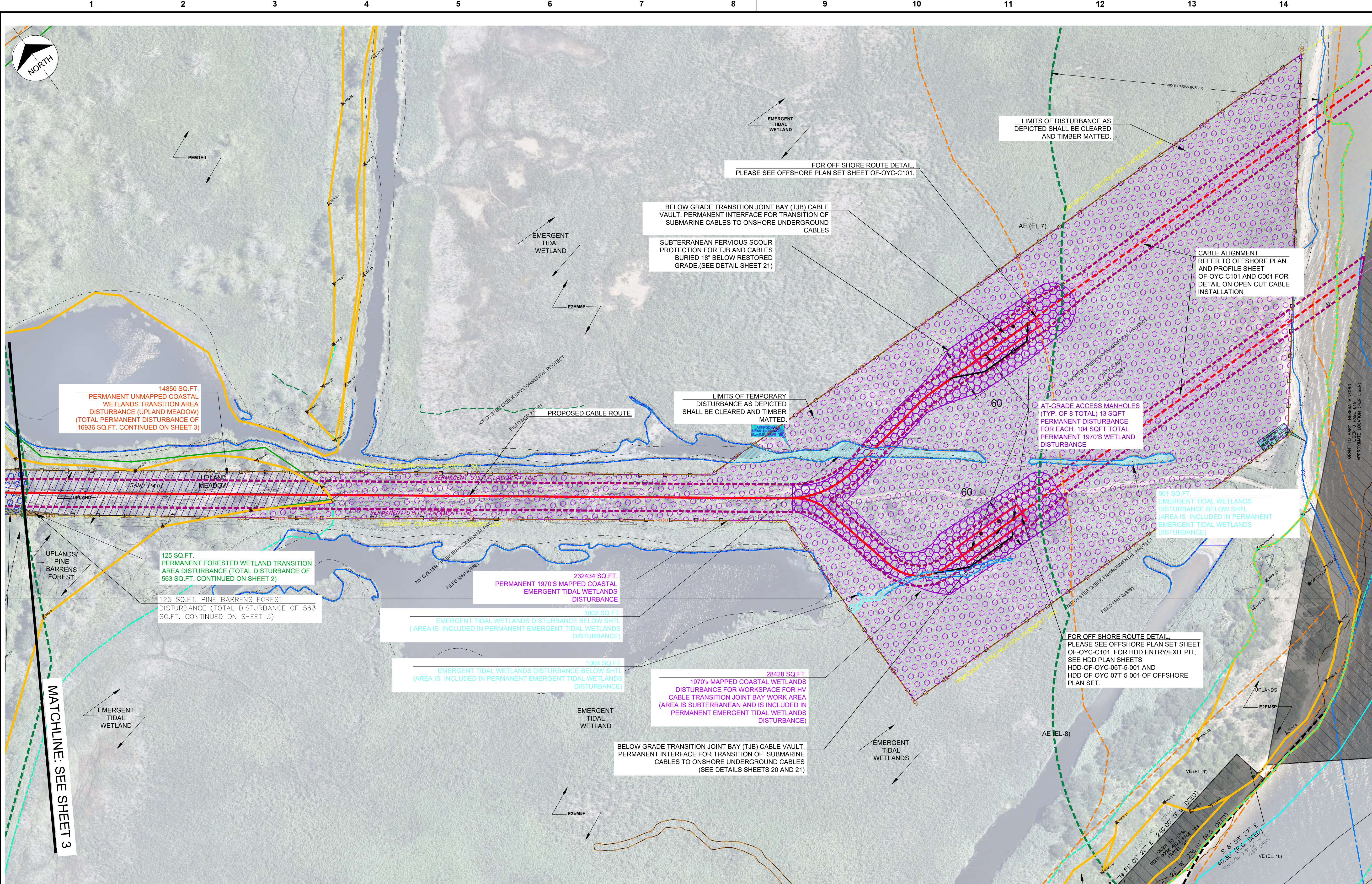
I CERTIFY THAT THESE PLANS HAVE BEEN  
PREPARED UNDER MY SUPERVISION



KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER



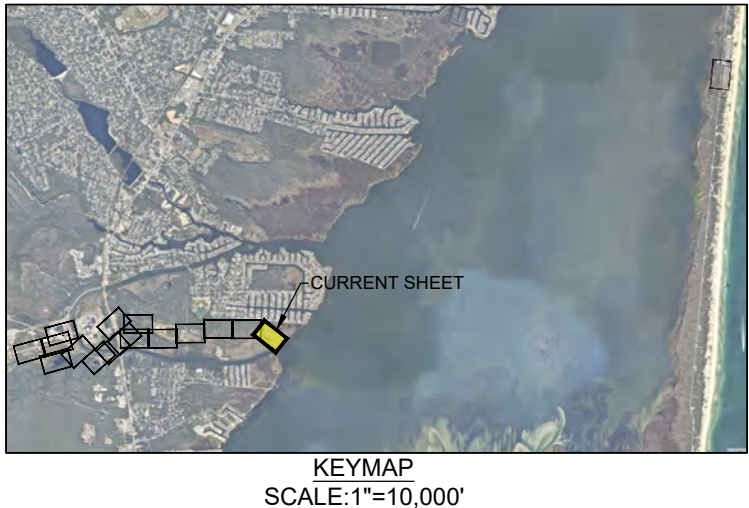




LEGEND			
	PROPOSED EXPORT CABLE		WETLAND TRANSITION AREA
	PROPOSED EXPORT CABLE (OPEN CUT)		TIDELANDS CLAIM LINE
	TEMPORARY CONSTRUCTION EASEMENT LINE		LIMIT OF DISTURBANCE
	PERMANENT UTILITY EASEMENT LINE		SILT FENCE/SILT SOCK
	FEMA LINE AND DESIGNATION		DELINEATED WETLAND
	LIMIT OF 1970 COASTAL WETLAND LINE		PERMANENT 1970'S MAPPED COASTAL WETLANDS DISTURBANCE FOR TJB AND OPEN CUT WORKSPACE ACCESS AND LAYDOWN AREA
	LIMIT OF DELINEATED WETLAND		1970'S MAPPED COASTAL WETLANDS DISTURBANCE FOR HV CABLE TRANSITION JOINT BAY WORK AREA
	RIPARIAN ZONE		PERMANENT TIDAL WETLANDS DISTURBANCE BELOW SPRING HIGH TIDE LINE SHTL
	MEAN HIGH WATER LINE		
	NUDEP MAPPED SHELLFISH LAYER		

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE				
	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL
COASTAL WETLANDS (1970 ACT)				
PERMANENT			232538 SQ.FT. 5.338 ACRES	232538 SQ.FT. 5.338 ACRES
TEMPORARY				
UNMAPPED COASTAL WETLANDS TRANSITION AREA				
PERMANENT	125 SQ.FT. 0.003 ACRES		14850 SQ.FT. 0.343 ACRES	14975 SQ.FT. 0.344 ACRES
TEMPORARY				
STATE OPEN WATERS				
PERMANENT				
TEMPORARY				
RIPARIAN ZONE				
PERMANENT				
TEMPORARY				

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE		
	PINE BARRENS FOREST	SCRUB SHRUB
WOODY VEGETATION CLEARING		
GROSS AREAS	125 SQ.FT. 0.003 ACRES	125 SQ.FT. 0.003 ACRES



I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

KATHERINE L. HERING, P.E. N.J. NO. 24GE0422690  
LICENSED PROFESSIONAL ENGINEER

no.	date	by	ckd	description
0	07/20/2022	AG	JSK/LH	REVISED FOR PERMIT REVIEW AND APPROVAL
1	11/14/2022	AG	JSK/LH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
2	10/05/2023	AG	JSK/LH	UPDATED ROUTE AND STATION AND RE-ISSUED FOR PERMIT REVIEW AND APPROVAL
3	4/11/2023	AG	JSK/LH	REVISED TO ADDRESS NJDEP COMMENTS ISSUED FOR PERMITS
4	6/1/2023	AG	JSK/LH	REVISED TO ADDRESS MINOR COMMENTS ISSUED FOR PERMITS

- NOTES:
- MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM. HORIZONTAL DATUM = NAD-83 (2011). VERTICAL DATUM = NAVD-86. UNITS = U.S. FOOT. PROJECT COMBINED GRID SCALE FACTOR = 0.999897978. VERTICAL DATUM CONVERSION: NGVD88 = NAVD29 - 1.25 FT.
  - PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH NEW JERSEY COASTAL ZONE MANAGEMENT RULES AT N.J.A.C. 7:7-1.1 AND NEW JERSEY FRESHWATER WETLANDS PROTECTION ACT RULES AT N.J.A.C. 7:7A-1.1 ET. SEQ. AND NEW JERSEY FLOOD HAZARD AREA CONTROL ACT RULES AT N.J.A.C. 7:13-1.1 ET. SEQ.
  - ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED. ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
  - UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY. ACCORDING TO N.J.S.A. 48:2-79 ET. SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
  - TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS, TRANSITION AREAS, AND RIPARIAN ZONES) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN WETLAND TRANSITION AREA THAT ARE NOT THREATENED ENDANGERED SPECIES HABITAT OR VERNAL HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS, RIPARIAN ZONES, OR WETLAND TRANSITION AREAS THAT ARE THREATENED/ENDANGERED SPECIES HABITAT OR A VERNAL HABITAT. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
  - THE STATE OF NEW JERSEY HAS DETERMINED THAT A PORTION OF THIS PROJECT LIES IN FLOOD HAZARD AREA AND RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN 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 PERMIT. CONTACT THE DIVISION OF LAND RESOURCE PROTECTION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
  - THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON AWARD OF CONTRACT. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED OR DIGITAL SEAL IS THE DOCUMENT OF RECORD.
  - WETLANDS SHOWN HEREON WERE DELINEATED BY HDR JUNE 2019, MAY 2020 AND LOCATED BY NJ LICENSED LAND SURVEYOR GEO D CORPORATION. WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY NJDEP WITH SITE VERIFICATION NOVEMBER 2021. ADDITIONAL WETLANDS WITHIN PROPOSED ONSHORE CONSTRUCTION AREA CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED AUGUST 15, 2011 (FILE NO. 1012-17-0013.1). SHAPFILES PROVIDED BY HDR JANUARY 10, 2022 & APRIL 11, 2022.

- REFERENCES:
- IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

**FOR PERMITTING APPROVAL**

**Ocean Wind 1**  
An Ørsted & PSEG project

**N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200**

**E 2 PROJECT MANAGEMENT LLC**

87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
www.E2PM.com

**E2PM**

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

**NJDEP INDIVIDUAL PERMIT PLANS**

**OCEAN WIND OFFSHORE WIND PROJECT**

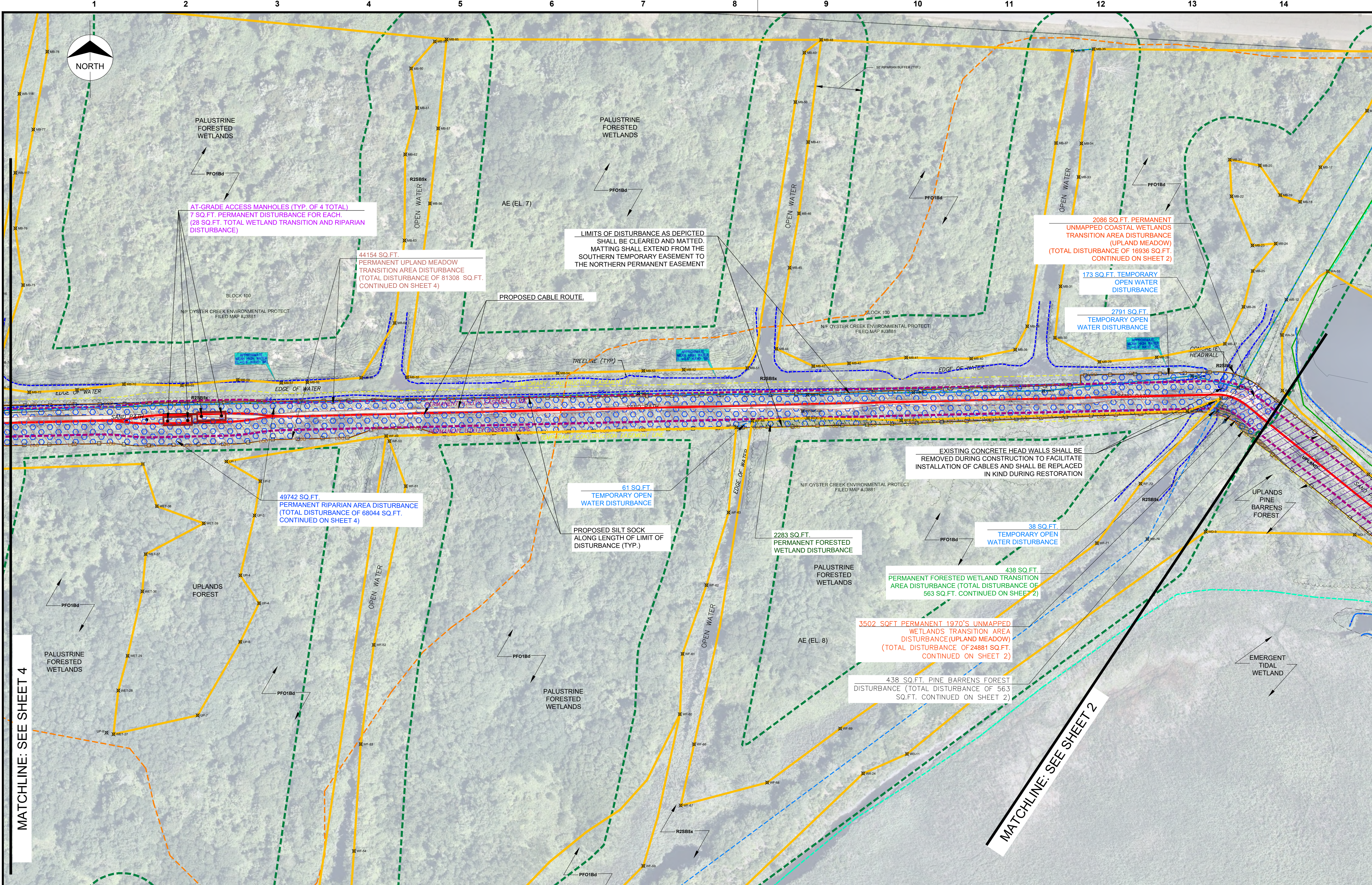
OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing **OL-OC002** - rev. **4**

sheet 2 of 22 sheets  
DERECO # 07748229





PROPOSED EXPORT CABLE

TEMPORARY CONSTRUCTION EASEMENT LINE

PERMANENT UTILITY EASEMENT LINE

FEMA LINE AND DESIGNATION

LIMIT OF 1970 COASTAL WETLAND LINE

LIMIT OF DELINEATED WETLAND

WETLAND TRANSITION AREA

RIPARIAN ZONE

MEAN HIGH WATER LINE

OPEN WATER

LIMIT OF DELINEATED WETLAND/ OPEN WATER

LIMIT OF DISTURBANCE

SILT FENCE/SILT SOCK

DELINEATED WETLAND

PERMANENT FORESTED WETLANDS TRANSITION AREA DISTURBANCE

PERMANENT UPLAND MEADOW TRANSITION AREA DISTURBANCE

TEMPORARY OPEN WATER DISTURBANCE

PERMANENT 1970'S MAPPED COASTAL WETLANDS DISTURBANCE

PERMANENT RIPARIAN AREA DISTURBANCE

PERMANENT UNMAPPED COASTAL WETLANDS TRANSITION AREA DISTURBANCE (UPLAND MEADOW)

PINE BARRENS FOREST

TJB/MANHOLE

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE					
	FORESTED	SCRUB-SAPLING	EMERGENT NON- TIDAL	EMERGENT TIDAL	UPLAND MEADOW
<strong>FRESHWATER WETLANDS</strong>					
PERMANENT	2283 SQ.FT. 0.052 ACRES				2283 SQ.FT. 0.052 ACRES
TEMPORARY					
<strong>UNMAPPED COASTAL WETLANDS TRANSITION AREA</strong>					
PERMANENT	438 SQ.FT. 0.010 ACRES		2086 SQ.FT. 0.048 ACRES		2524 SQ.FT. 0.058 ACRES
TEMPORARY					
<strong>FRESHWATER WETLANDS TRANSITION AREA</strong>					
PERMANENT					44187 SQ.FT. 1.015 ACRES
TEMPORARY					
<strong>STATE OPEN WATERS</strong>					
PERMANENT					3063 SQ.FT. 0.070 ACRES
TEMPORARY	3063 SQ.FT. 0.070 ACRES				
<strong>RIPARIAN ZONE</strong>					
PERMANENT					49770 SQ.FT. 1.143 ACRES
TEMPORARY					

0 50' 100'

SCALE IN FEET

KEYMAP

SCALE: 1"=10,000'

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE

	PINE BARRENS FOREST	SCRUB SHRUB	TOTAL
WOODY VEGETATION CLEARING			
GROSS AREAS	438 SQ.FT. 0.010 ACRES		438 SQ.FT. 0.010 ACRES

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

STATE OF NEW JERSEY

KATHERINE L. HERING

No. GE42269

LICENSED PROFESSIONAL ENGINEER

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing OL-OC003

sheet 3 of 22 sheets

DERECO # 07748229

APG

checked KLH/JMS

rev. 4

no. | date | by | ckd | description

0	07/20/2022	AG	JSK/LH	REVISED FOR PERMIT REVIEW AND APPROVAL
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NOTES:

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4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY. ACCORDING TO N.J.A.C. 46:2-19 ET. SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.

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REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

FOR PERMITTING APPROVAL

Ocean Wind 1

An Ørsted & PSEG project

N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE  
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PHONE: (973) 299-5200  
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date 7/20/22

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detailed APG

checked KLH/JMS

NJDEP INDIVIDUAL PERMIT PLANS

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

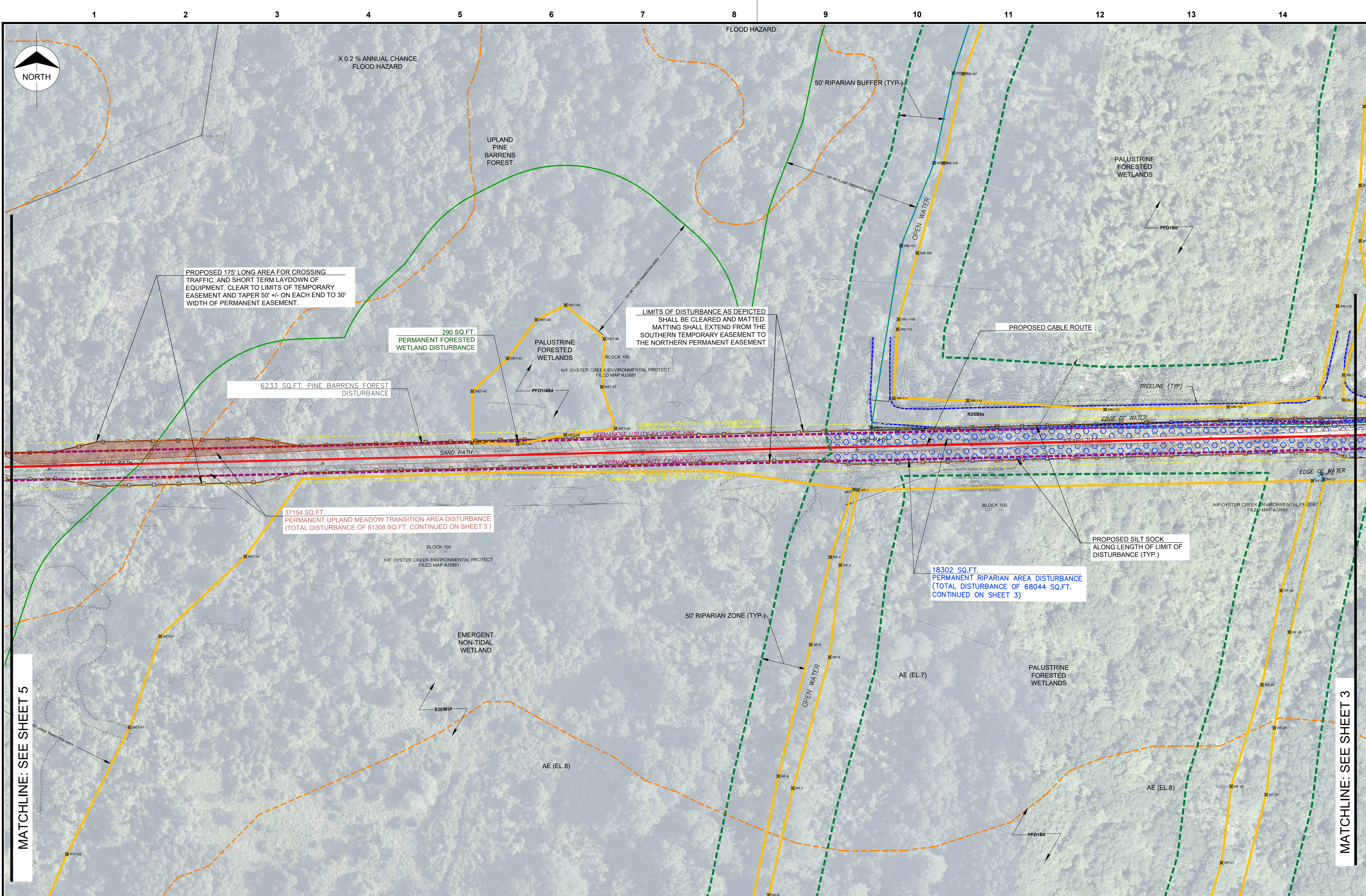
drawing OL-OC003

sheet 3 of 22 sheets

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rev. 4

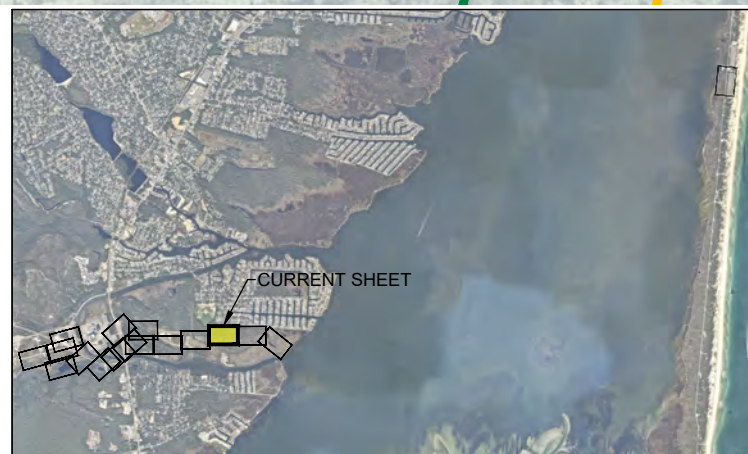




LEGEND			
	PROPOSED EXPORT CABLE		LIMIT OF DELINEATED WETLAND/ OPEN WATER
	TEMPORARY CONSTRUCTION EASEMENT LINE		LIMIT OF DISTURBANCE
	PERMANENT UTILITY EASEMENT LINE		SILT FENCE/SILT SOCK
	FEMA LINE AND DESIGNATION		PERMANENT RIPARIAN AREA DISTURBANCE
	LIMIT OF 1970 COASTAL WETLAND LINE		PERMANENT UPLAND MEADOW TRANSITION AREA DISTURBANCE
	LIMIT OF DELINEATED WETLAND		PERMANENT FORESTED WETLAND DISTURBANCE
	WETLAND TRANSITION AREA		PINE BARRENS FOREST
	RIPARIAN ZONE		
	OPEN WATER		
	DELINEATED WETLAND		

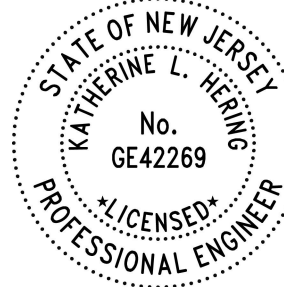
NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE						
	FORESTED	SCRUB-SAPLING	EMERGENT NON- TIDAL	EMERGENT TIDAL	UPLAND MEADOW	TOTAL
<b>FRESHWATER WETLANDS</b>						
PERMANENT	290 SQ.FT. 0.007 ACRES					290 SQ.FT. 0.007 ACRES
TEMPORARY						
<b>FRESHWATER WETLANDS TRANSITION AREA</b>						
PERMANENT					37154 SQ.FT. 0.853 ACRES	37154 SQ.FT. 0.853 ACRES
TEMPORARY						
<b>RIPARIAN ZONE</b>						
PERMANENT					18302 SQ.FT. 0.420 ACRES	18302 SQ.FT. 0.420 ACRES
TEMPORARY						

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE		
	PINE BARRENS FOREST	SCRUB SHRUB
<b>WOODY VEGETATION CLEARING</b>		
GROSS AREAS	6233 SQ.FT. 0.143 ACRES	6233 SQ.FT. 0.143 ACRES



0 50' 100'  
SCALE IN FEET

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION



no.	date	by	ckd	description
0	07/20/2022	AG	JSK/LH	REVISED FOR PERMIT REVIEW AND APPROVAL
1	11/14/2022	AG	JSK/LH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
2	1/05/2023	AG	JSK/LH	UPDATED ROUTE AND STATION AND RE- ISSUED FOR PERMIT REVIEW AND APPROVALS
3	4/11/2023	AG	JSK/LH	REVISED TO ADDRESS NJDEP COMMENTS ISSUED FOR PERMITS
4	6/1/2023	AG	JSK/LH	REVISED TO ADDRESS MINOR COMMENTS ISSUED FOR PERMITS

#### NOTES:

1. MAPPING IS BASED ON THE NJ STATE PLANE COORDINATE SYSTEM. HORIZONTAL DATUM = NAD-83 (2011) VERTICAL DATUM = NAVD-88 UNITS = U.S. FOOT PROJECT COMBINED GRID SCALE FACTOR = 0.999897978 VERTICAL DATUM CONVERSION: NGVD88 = NAVD29 - 1.25 FT
2. PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH NEW JERSEY COASTAL ZONE MANAGEMENT RULES AT N.J.A.C. 7:7-1.1 AND NEW JERSEY FRESHWATER WETLANDS PROTECTION ACT RULES AT NJAC 7:7A-1.1 ET. SEQ. AND NEW JERSEY FLOOD HAZARD AREA CONTROL ACT RULES AT N.J.A.C. 7:13-1.1 ET. SEQ.
3. ONLY OCEAN WIND LLC LAND RIGHTS HAVE BEEN SURVEYED. ADJOINING TAX LOT LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.
4. UNDERGROUND UTILITY LINES AND EASEMENTS SHOWN ARE APPROXIMATE AND BASED ON RECORD INFORMATION AND/OR ABOVE GROUND MARKER LOCATIONS ONLY. ACCORDING TO N.J.S.A. 48-2:73 ET SEQ. ANYONE PLANNING EXCAVATIONS IN THE AREA MUST CALL 811 FOR A MARKOUT OF THE UNDERGROUND UTILITIES. DO NOT RELY ON THIS PLAN FOR UNDERGROUND UTILITY LOCATIONS.
5. TIMBER MATTING IS PROPOSED TO MINIMIZE DISTURBANCES IN REGULATED AREAS (WETLANDS, TRANSITION AREAS, AND RIPARIAN ZONES) AND TO PROVIDE ADDITIONAL PROTECTION TO UNDERGROUND GAS LINES AS REQUIRED PER SAFETY PROTOCOLS. AT THE CONTRACTOR'S DISCRETION, AND WITH THE APPROVAL OF OCEAN WIND LLC, GRAVEL OVER FILTER FABRIC MAY BE USED IN LIEU OF TIMBER MATTING FOR TEMPORARY ACCESS ROADS AND WORK PADS LOCATED IN WETLAND TRANSITION AREA THAT ARE NOT THREATENED/ENDANGERED SPECIES HABITAT OR VERNAL HABITAT. GRAVEL OVER FILTER FABRIC IS NOT PERMITTED IN WETLANDS, RIPARIAN ZONES, OR WETLAND TRANSITION AREAS THAT ARE THREATENED/ENDANGERED SPECIES HABITAT OR A VERNAL HABITAT. FOR ADDITIONAL INFORMATION SEE COMPLIANCE STATEMENT INCLUDED IN APPLICATION.
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7. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL LOCATION OF PROPOSED IMPROVEMENTS WILL BE COORDINATED WITH ENGINEER UPON AWARD OF CONTRACT. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED OR DIGITAL SEAL IS THE DOCUMENT OF RECORD.
8. WETLANDS SHOWN HEREON WERE DELINEATED BY HDR JUNE 2019, MAY 2020 AND LOCATED BY NJ LICENSED LAND SURVEYOR GEOO CORPORATION, WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY NJDEP WITH SITE VERIFICATION NOVEMBER 2021. ADDITIONAL WETLANDS WITHIN PROPOSED ONSHORE CONSTRUCTION AREA CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED AUGUST 15, 2017 (FILE NO. 1512-17-0113.1). SHAPFILES PROVIDED BY HDR JANUARY 10, 2022 & APRIL 11, 2022.

#### REFERENCES:

1. IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

#### FOR PERMITTING APPROVAL

**Ocean Wind 1**  
An Ørsted & PSEG project

N.J. ENGINEERING CERTIFICATE OF  
AUTHORIZATION No. 24GA28118200

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
www.E2PM.com



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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

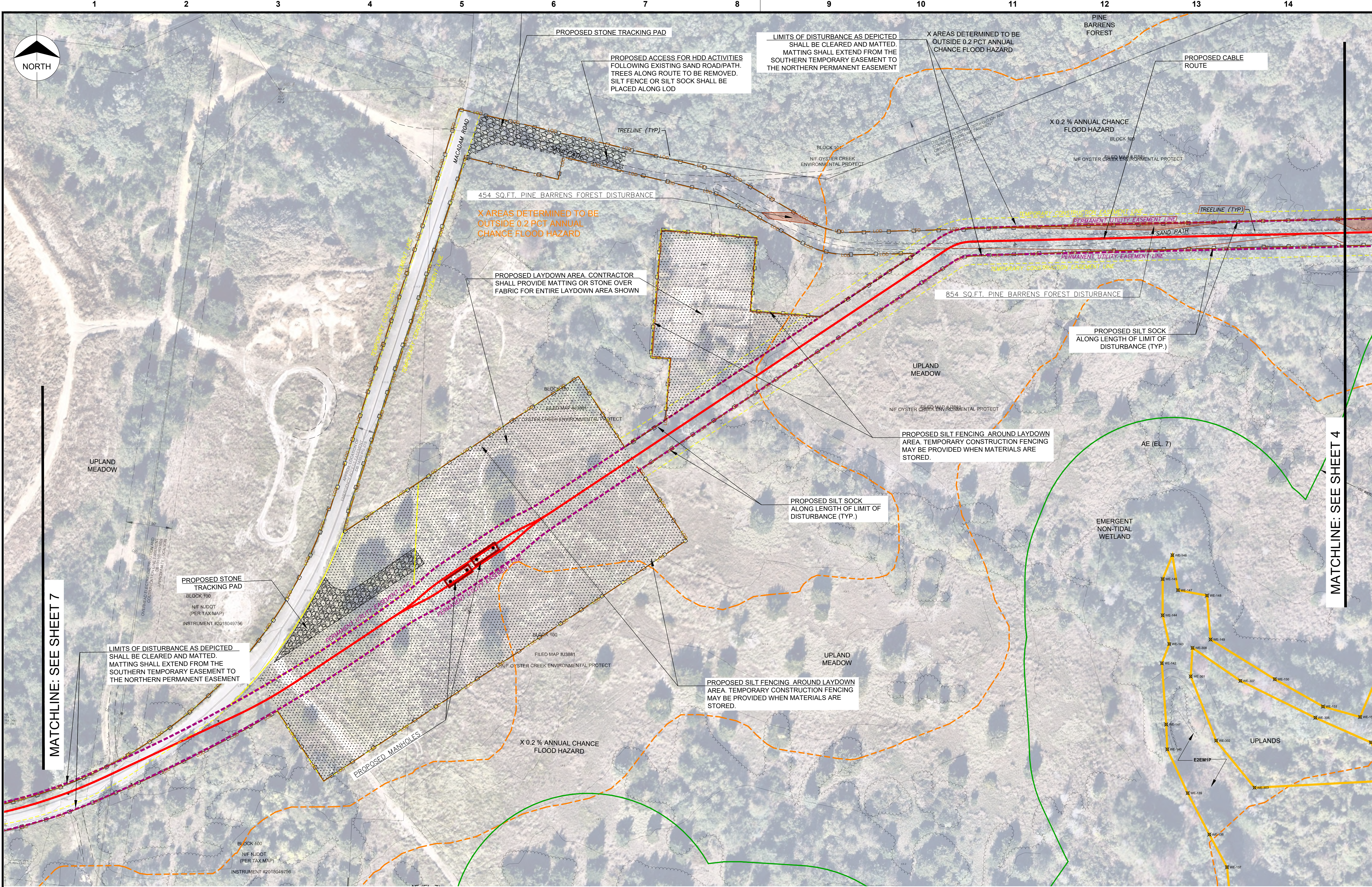
#### NJDEP INDIVIDUAL PERMIT PLANS

#### OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project	P-21-03-26	rev.	
drawing	<b>OL-OC004</b>		<b>4</b>
sheet	4	of	22 sheets
DERECO # 07748229			





**LEGEND**

PROPOSED EXPORT CABLE

TEMPORARY CONSTRUCTION EASEMENT LINE

PERMANENT UTILITY EASEMENT LINE

FEMA LINE AND DESIGNATION

LIMIT OF 1970 COASTAL WETLAND LINE

LIMIT OF DELINEATED WETLAND

WETLAND TRANSITION AREA

LOD

SILT FENCE/SILT SOCK

DELINEATED WETLAND

LAYDOWN AREA (TO BE CLEARED AND OVERLAIN WITH STONE OR TIMBER MATTING)

PROPOSED STONE TRACKING PAD

PINE BARRENS FOREST

TJB/MANHOLE

TREES AND SCRUB--SHRUB VEGETATION CLEARING IMPACT TABLE		
	PINE BARRENS FOREST	SCRUB SHRUB
WOODY VEGETATION CLEARING		
GROSS AREAS	1308 SQ.FT. 0.030 ACRES	1308 SQ.FT. 0.030 ACRES

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

STATE OF NEW JERSEY

KATHERINE L. HERING

No. 042269

LICENSED PROFESSIONAL ENGINEER

no.	date	by	ckd	description
0	07/20/2022	AG	JSK/LH	ISSUED FOR PERMIT REVIEW AND APPROVAL
1	11/14/2022	AG	JSK/LH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
2	10/09/2023	AG	JSK/LH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
3	4/11/2023	AG	JSK/LH	REVISED TO ADDRESS NJDEP COMMENTS
4	6/12/2023	AG	JSK/LH	REVISED TO ADDRESS MINOR COMMENTS

NOTES:

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REFERENCES:

- IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

**FOR PERMITTING APPROVAL**

**Ocean Wind 1**  
An Ørsted & PSEG project

**N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200**

**E 2 PROJECT MANAGEMENT LLC**

87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
www.E2PM.com

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date	7/22/20	detailed	APG
designed	JMS	checked	KLH/JMS

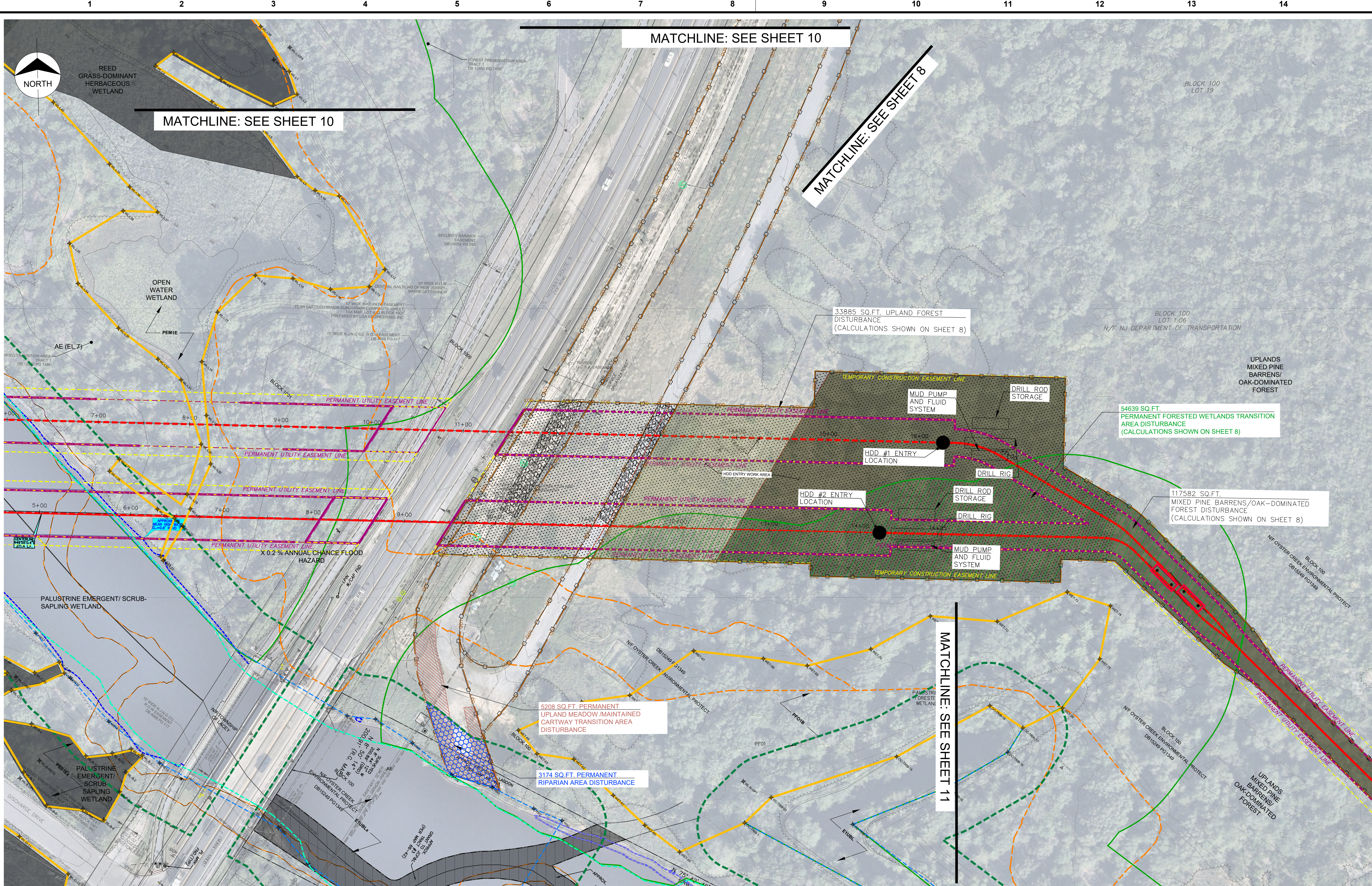
**NJDEP INDIVIDUAL PERMIT PLANS**

**OCEAN WIND OFFSHORE WIND PROJECT**

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

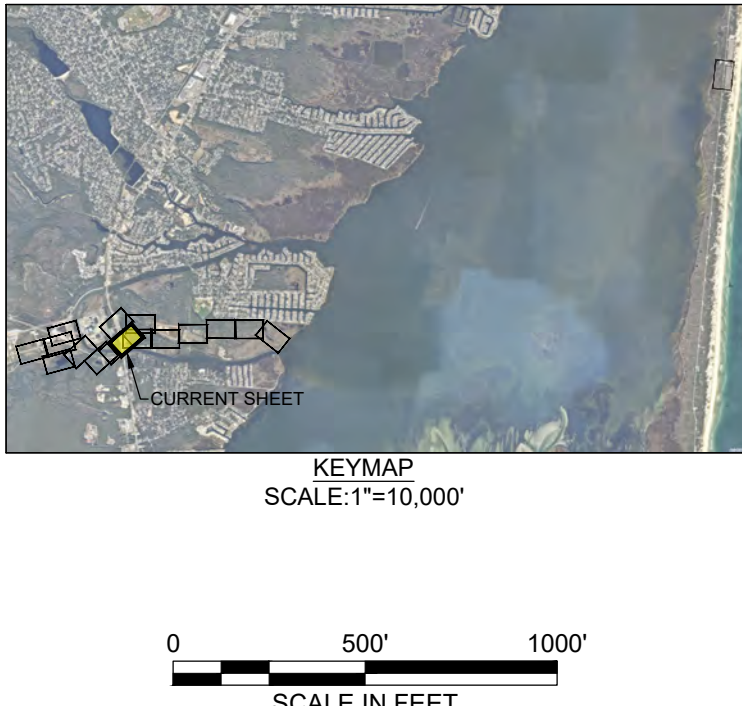
project	P-21-03-26	rev.	
drawing	<b>OL-OC005</b>		<b>4</b>
sheet	5	of	22
DERECO # 07748229			





LEGEND			
	PROPOSED EXPORT CABLE		OPEN WATER
	TEMPORARY CONSTRUCTION EASEMENT LINE		LIMIT OF DELINEATED WETLAND/ OPEN WATER
	PERMANENT UTILITY EASEMENT LINE		TIDELANDS CLAIM LINE
	FEMA LINE AND DESIGNATION		LIMIT OF DISTURBANCE
	LIMIT OF 1970 COASTAL WETLAND LINE		SILT FENCE/SILT SOCK
	LIMIT OF DELINEATED WETLAND		DELINEATED WETLAND
	WETLAND TRANSITION AREA		TJB/MANHOLE
	RIPARIAN ZONE		PERMANENT FORESTED WETLANDS TRANSITION AREA DISTURBANCE
	MEAN HIGH WATER LINE		UPLAND FOREST
			MIXED PINE BARRENS/OAK-DOMINATED
			PERMANENT UPLAND MEADOW TRANSITION AREA DISTURBANCE
			PERMANENT RIPARIAN ZONE DISTURBANCE
			PROPOSED STONE TRACKING PAD
			LAYDOWN AREA (TO BE CLEARED AND OVERLAID WITH STONE OR TIMBER MATTING)

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE			
	EMERGENT NON-TIDAL	EMERGENT TIDAL	UPLAND MEADOW
FRESHWATER WETLANDS			
PERMANENT			
TEMPORARY			
COASTAL WETLANDS TRANSITION AREA			
PERMANENT			
TEMPORARY			
FRESHWATER WETLANDS TRANSITION AREA			
PERMANENT		5208 SQ.FT. 0.120 ACRES	5208 SQ.FT. 0.120 ACRES
TEMPORARY			
STATE OPEN WATERS			
PERMANENT			
TEMPORARY			
RIPARIAN ZONE			
PERMANENT		3174 SQ.FT. 0.073 ACRES	3174 SQ.FT. 0.073 ACRES
TEMPORARY			



I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER

no.	date	by	ckd	description
0	07/20/2022	AG	JSK/LH	REVISED FOR PERMIT REVIEW AND APPROVAL
1	11/14/2022	AG	JSK/LH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
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REFERENCES:

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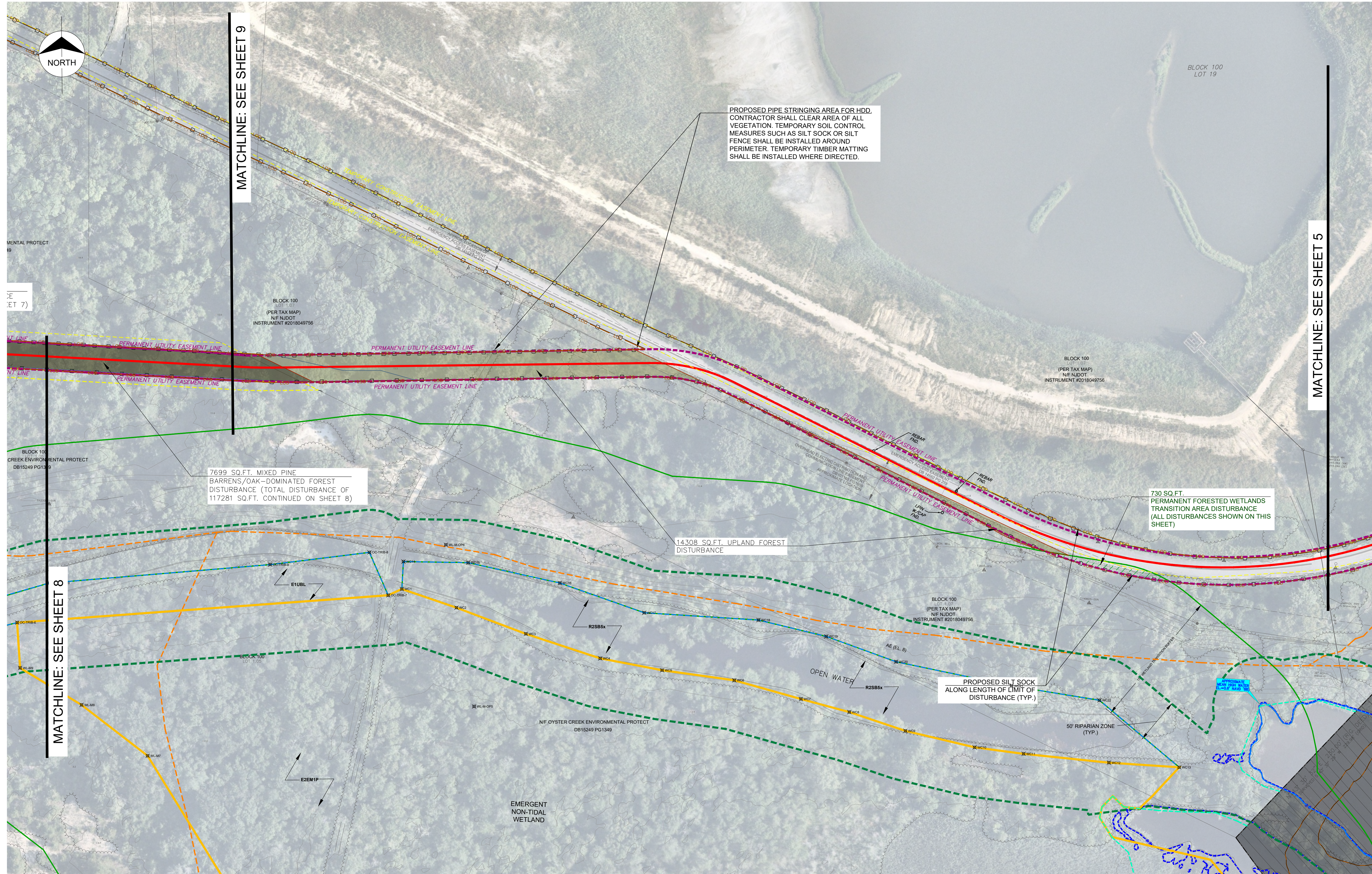
**NJDEP INDIVIDUAL PERMIT PLANS**

**OCEAN WIND OFFSHORE WIND PROJECT**

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project	P-21-03-26	rev.	
drawing	<b>OL-OC006</b>		<b>4</b>
sheet	6	of	22
DERECO # 07748229			

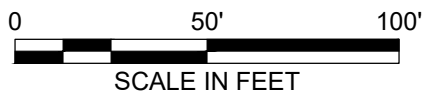




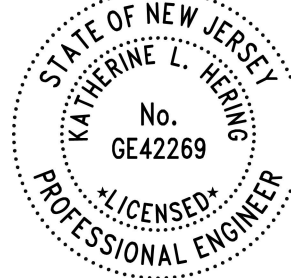
LEGEND			
	PROPOSED EXPORT CABLE		LIMIT OF DELINEATED WETLAND/ OPEN WATER
	TEMPORARY CONSTRUCTION EASEMENT LINE		TIDELANDS CLAIM LINE
	PERMANENT UTILITY EASEMENT LINE		LIMIT OF DISTURBANCE
	FEMA LINE AND DESIGNATION		SILT FENCE/SILT SOCK
	LIMIT OF 1970 COASTAL WETLAND LINE		DELINEATED WETLAND
	LIMIT OF DELINEATED WETLAND		PERMANENT FORESTED WETLANDS TRANSITION AREA DISTURBANCE
	WETLAND TRANSITION AREA		UPLAND FOREST
	RIPARIAN ZONE		MIXED PINE BARRENS/OAK-DOMINATED
	MEAN HIGH WATER LINE		
	OPEN WATER		

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE					
	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL	UPLAND MEADOW
FRESHWATER WETLANDS					
PERMANENT					
TEMPORARY					
FRESHWATER WETLANDS TRANSITION AREA					
PERMANENT	730 SQ. FT. 0.017 ACRES				730 SQ. FT. 0.017 ACRES
TEMPORARY					
RIPARIAN ZONE					
PERMANENT					
TEMPORARY					

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE			
	MIXED PINE BARRENS/ OAK-DOMINATED FOREST	UPLAND FOREST	TOTAL
WOODY VEGETATION CLEARING			
GROSS AREAS	7699 SQ. FT. 0.177 ACRES	14308 SQ. FT. 0.328 ACRES	22007 SQ. FT. 0.505 ACRES



I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION



KATHERINE L. HERING, P.E. N.J. NO. 24GE0422690  
LICENSED PROFESSIONAL ENGINEER

no.	date	by	ckd	description
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**Ocean Wind 1**  
An Ørsted & PSEG project

**N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200**

**E 2 PROJECT MANAGEMENT LLC**

87 HIBERNIA AVENUE  
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**E2PM**

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designed	JMS	checked	KLH/JMS

**NJDEP INDIVIDUAL PERMIT PLANS**

**OCEAN WIND OFFSHORE WIND PROJECT**

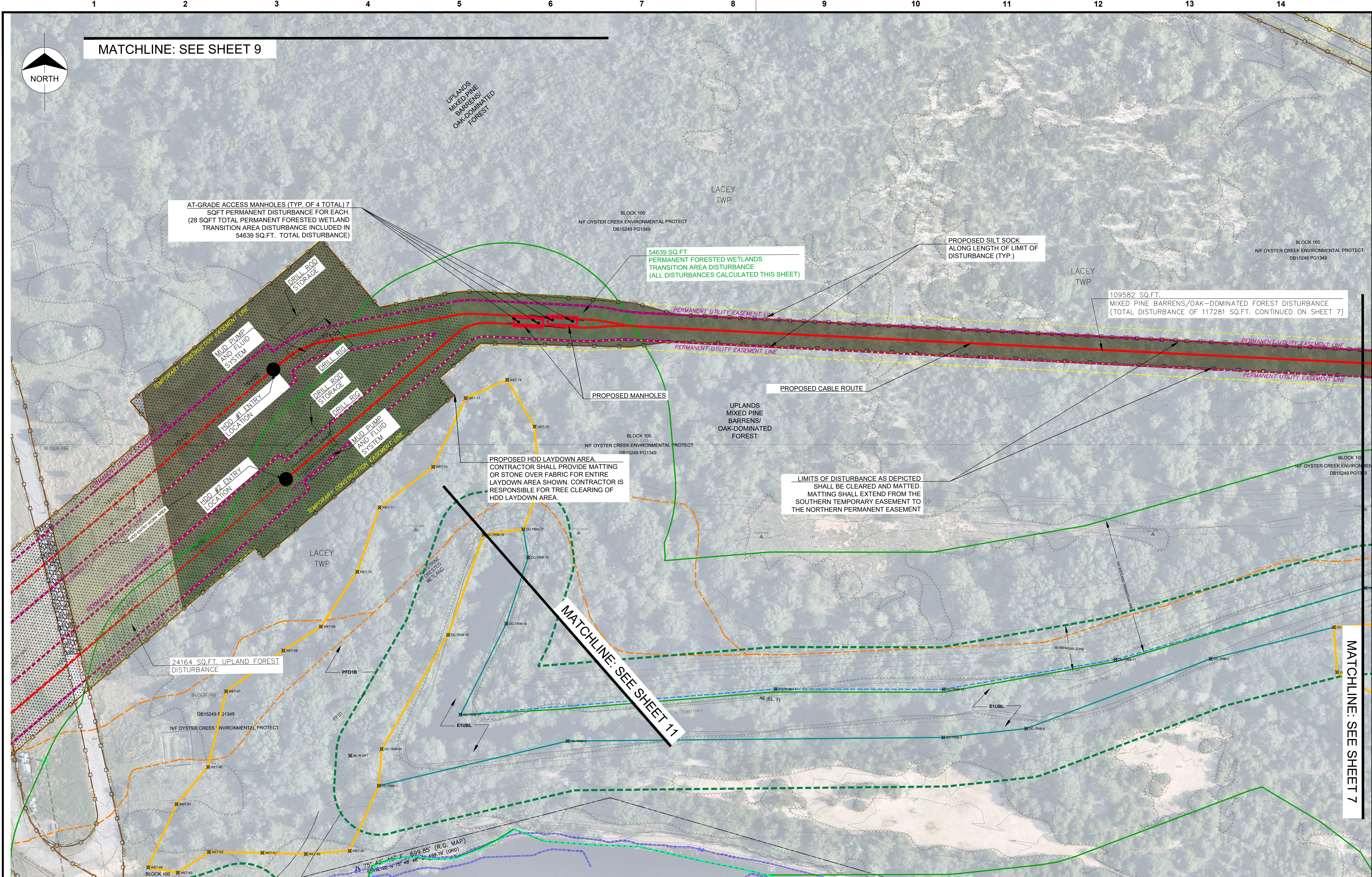
OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing **OL-OC007** rev. **4**

sheet 7 of 22 sheets  
DERECO # 07748229





**LEGEND**

PROPOSED EXPORT CABLE

PROPOSED EXPORT CABLE (HDD)

TEMPORARY CONSTRUCTION EASEMENT LINE

PERMANENT UTILITY EASEMENT LINE

FEMA LINE AND DESIGNATION

LIMIT OF 1970 COASTAL WETLAND LINE

LIMIT OF DELINEATED WETLAND

WETLAND TRANSITION AREA

RIPARIAN ZONE

MEAN HIGH WATER LINE

OPEN WATER

LIMIT OF DELINEATED WETLAND/ OPEN WATER

LIMIT OF DISTURBANCE

SILT FENCE/SILT SOCK

DELINEATED WETLAND

TJB/MANHOLE

PERMANENT FORESTED WETLANDS TRANSITION AREA DISTURBANCE

UPLAND FOREST

MIXED PINE BARRENS/OAK-DOMINATED

PROPOSED STONE TRACKING PAD

LAYDOWN AREA (TO BE CLEARED AND OVERLAID WITH STONE OR TIMBER MATTING)

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE						
	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL	UPLAND MEADOW	TOTAL
FRESHWATER WETLANDS						
PERMANENT						
TEMPORARY						
FRESHWATER WETLANDS TRANSITION AREA						
PERMANENT	54639 SQ.FT. 1.254 ACRES					54639 SQ.FT. 1.254 ACRES
TEMPORARY						
RIPARIAN ZONE						
PERMANENT						
TEMPORARY						

0 50' 100'

SCALE IN FEET

KEYMAP

SCALE: 1"=10,000'

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE

	MIXED PINE BARRENS/OAK-DOMINATED FOREST	UPLAND FOREST	TOTAL
WOODY VEGETATION CLEARING			
GROSS AREAS	109582 SQ.FT. 2.516 ACRES	24164 SQ.FT. 0.558 ACRES	133746 SQ.FT. 3.070 ACRES

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

KATHERINE L. HERING  
No. GE42269  
LICENSED PROFESSIONAL ENGINEER

**NJDEP INDIVIDUAL PERMIT PLANS**

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drawing **OL-OC008** of 22 sheets

sheet 8 of 22 sheets

DERECO # 07748229

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OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing **OL-OC008** of 22 sheets

sheet 8 of 22 sheets

DERECO # 07748229





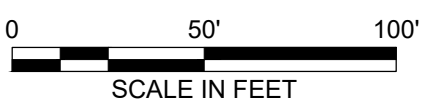
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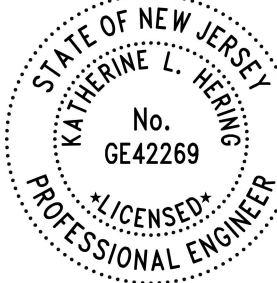
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EXISTING PAVED ROADWAY FOR ACCESS



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KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER

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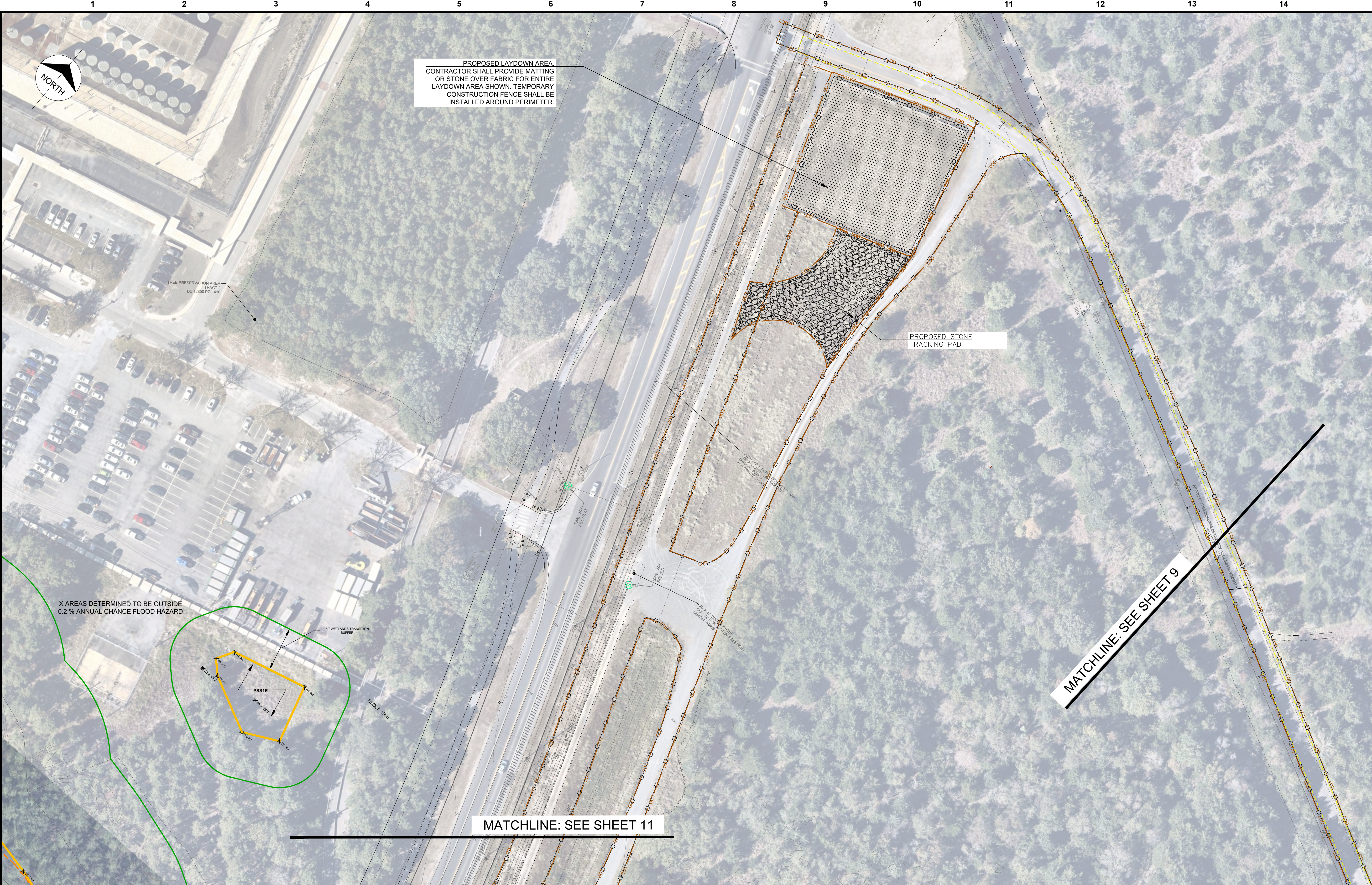
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OCEAN WIND OFFSHORE WIND PROJECT

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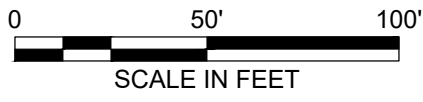
project	P-21-03-26	rev.	
drawing	<b>OL-OC009</b>		<b>4</b>
sheet	9	of	22 sheets
DERECO # 07748229			



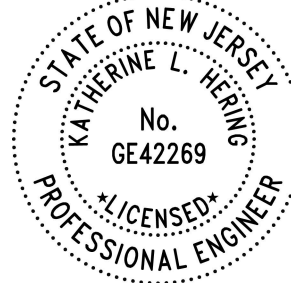


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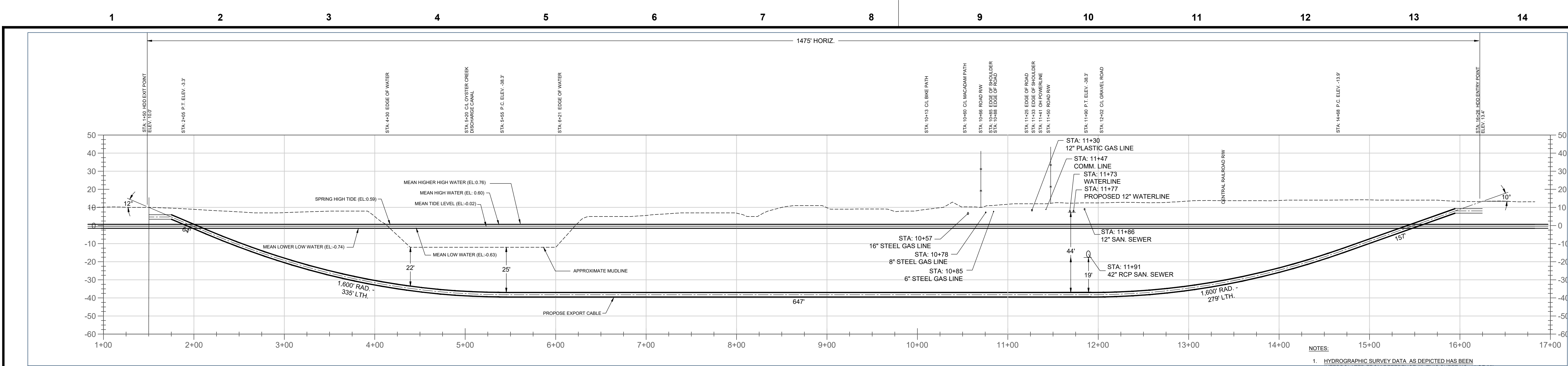
**SITE CONSTRAINTS MAP**

**OCEAN WIND OFFSHORE WIND PROJECT**

OYSTER CREEK LOCATION LACEY TWP, NJ 0875	
project	P-21-03-26
drawing	OL-OC010
sheet	10 of 22 sheets
DERECO #	07748229

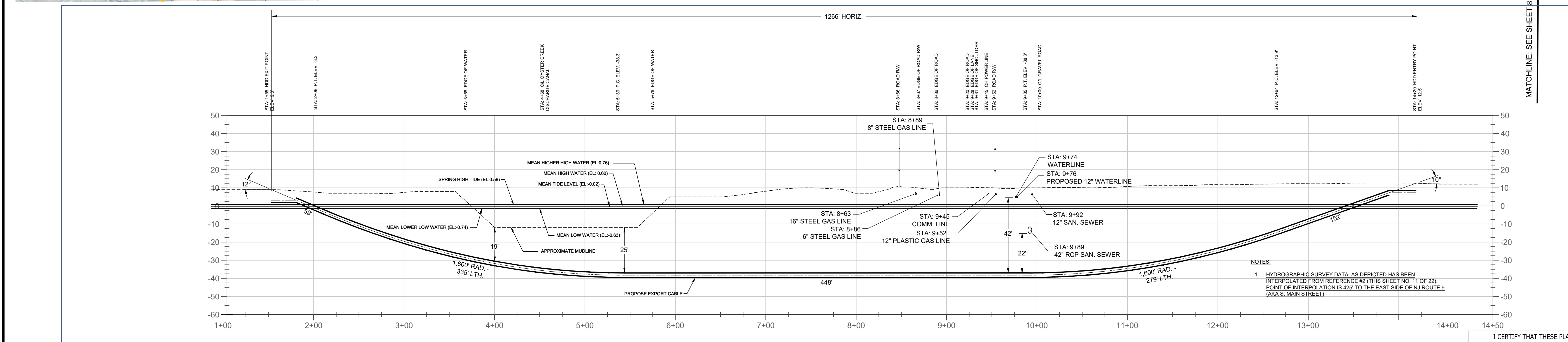
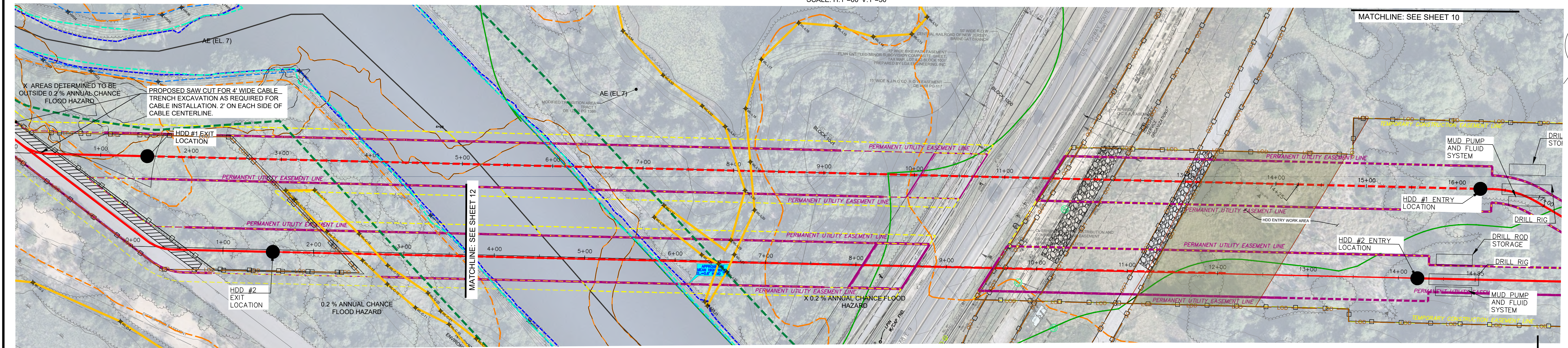
rev. 4





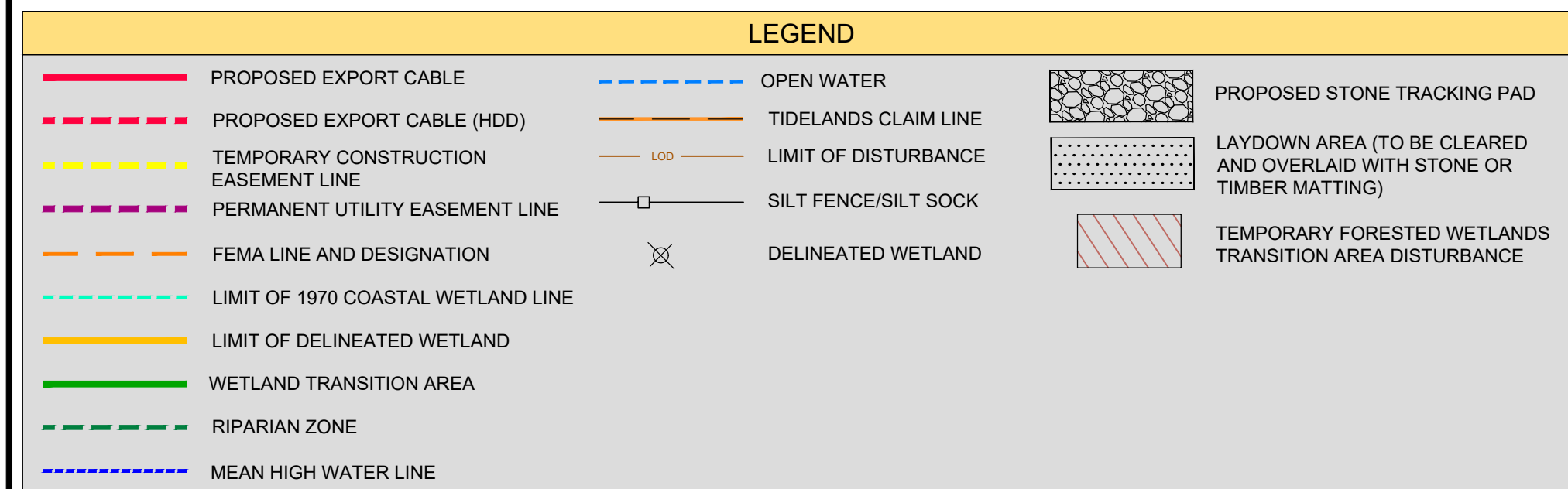
SECTION HDD1

SCALE: H:1"=60' V:1"=30'

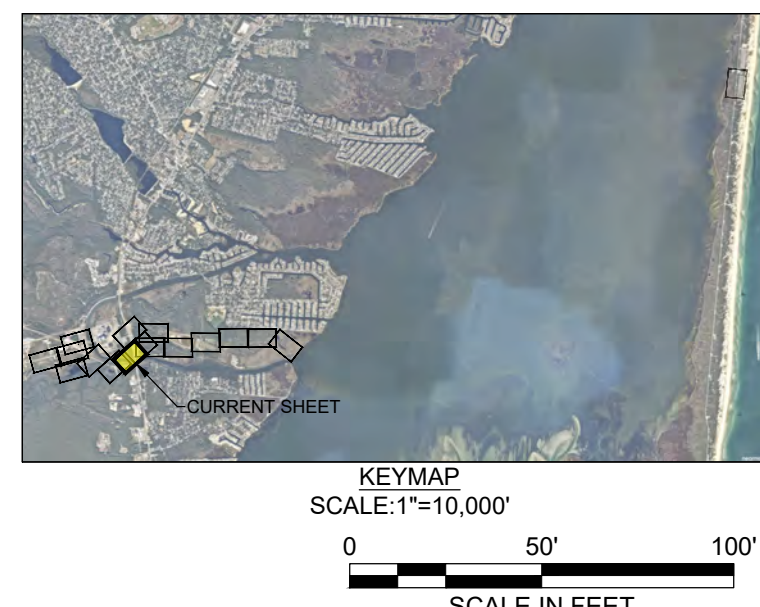


SECTION HDD2

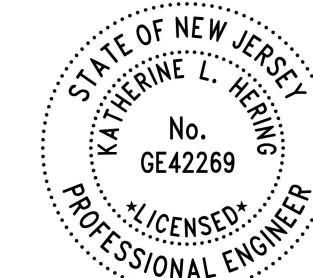
SCALE: H:1"=60' V:1"=30'



LACEY TOWNSHIP				
Interpolation between tidal stations #8533615 BARNEGAT INLET (INSIDE), NJ and #8535101 CORSON INLET, NJ				
		NAV88-88 FEET	NGVD-29 FEET	
	SPRING HIGH TIDE	SHT	0.59	-0.66
MEAN HIGHER HIGH WATER	MHHW	0.76	-0.49	
MEAN HIGH WATER	MHW	0.6	-0.65	
MEAN TIDE LEVEL	MTL	-0.02	-1.27	
MEAN LOW WATER	MLW	-0.63	-1.88	
MEAN LOWER LOW WATER	MLLW	-0.74	-1.99	
NAV88-88 TO NGVD-29 CONVERSION FACTOR = -1.25'				



I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION



KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900 LICENSED PROFESSIONAL ENGINEER

no.	date	by	ckd	description
0	07/20/2022	AG	JSK/LH	REVISED FOR PERMIT REVIEW AND APPROVAL
1	11/14/2022	AG	JSK/LH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
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3	4/11/2023	AG	JSK/LH	REVISED TO ADDRESS NJDEP COMMENTS ISSUED FOR PERMITS
4	6/1/2023	AG	JSK/LH	REVISED TO ADDRESS MINOR COMMENTS ISSUED FOR PERMITS

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- REFERENCES:
- MASTERY PROVIDED BY NEARMAP DATED OCTOBER 2021
  - HYDROGRAPHIC SURVEY ENTITLED "THE OYSTER CREEK LACEY TWP. & OCEAN TWP. OCEAN COUNTY SOUNDINGS FEBRUARY 22, 2009" SHEET 4 OF 4 DATED OCTOBER 8, 2009. PREPARED BY GAGANIAN & BYRANT ASSOCIATES, INC. FOR STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES.

FOR PERMITTING APPROVAL

**Ocean Wind 1**  
An Ørsted & PSEG project

N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200

**E 2 PROJECT MANAGEMENT LLC**

87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
www.E2PM.com

**E2PM**

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

**NJDEP INDIVIDUAL PERMIT PLANS**

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

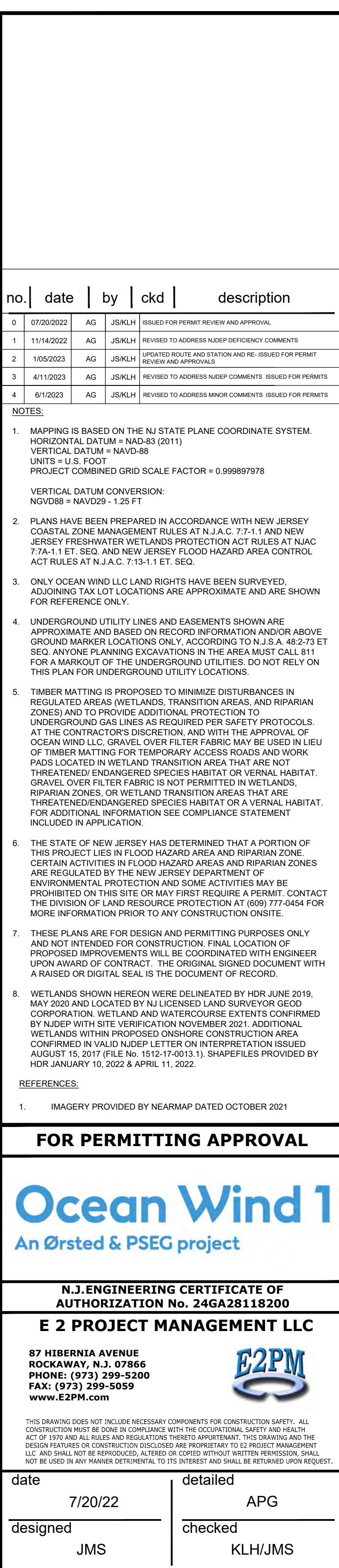
project P-21-03-26

drawing **OL-OC011** of 22 sheets

sheet 11 of 22 sheets

DERECO # 07748229





NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE						
	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL	UPLAND MEADOW	TOTAL
<b>FRESHWATER WETLANDS</b>						
PERMANENT						
TEMPORARY						
<b>FRESHWATER WETLANDS TRANSITION AREA</b>						
PERMANENT						
TEMPORARY		23525 SQ.FT. 0.540 ACRES				23525 SQ.FT. 0.540 ACRES
<b>RIPARIAN ZONE</b>						
PERMANENT						
TEMPORARY						

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE			
	UPLAND MEADOW EARLY-SUCCESIONAL FOREST	UPLAND FOREST	TOTAL
<b>WOODY VEGETATION CLEARING</b>			
GROSS AREAS	29864 SQ.FT. 0.663 ACRES		29864 SQ.FT. 0.663 ACRES

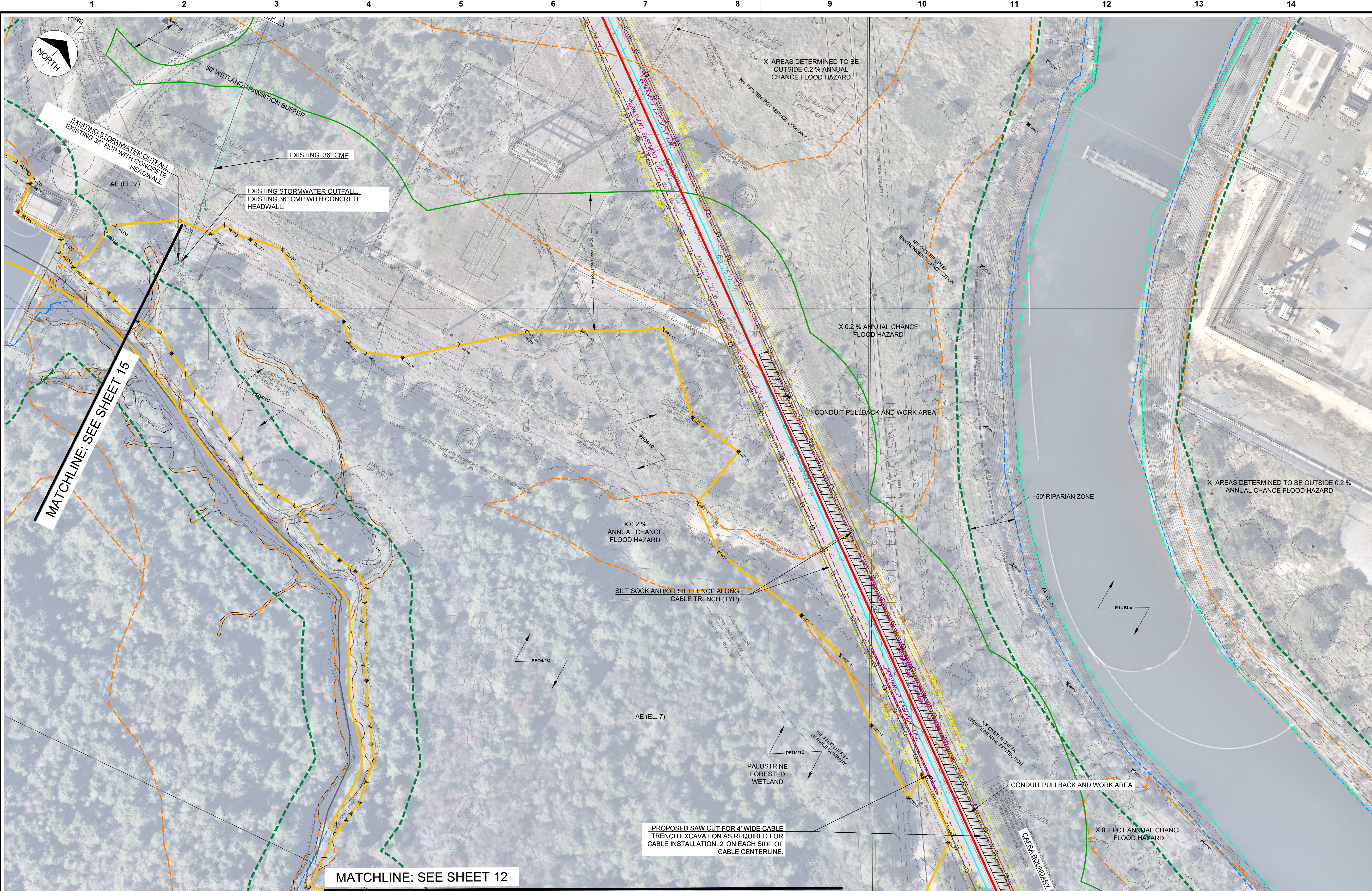
I CERTIFY THAT THESE PLANS HAVE BEEN  
PREPARED UNDER MY SUPERVISION

STATE OF NEW JERSEY  
KATHARINE L. HERING  
No.  
GE42269  
LICENSED  
PROFESSIONAL ENGINEER

KATHARINE L. HERING, P.E. N.J. No. 24GE0422  
LICENSED PROFESSIONAL ENGINEER

<b>NJDEP INDIVIDUAL PERMIT PLANS</b>		
<b>OCEAN WIND OFFSHORE WIND PROJECT</b>		
<b>OYSTER CREEK LOCATION LACEY TWP, NJ 0875</b>		
project	P-21-03-26	rev.
drawing	<b>OL-OC012</b>	<b>4</b>
sheet	12	of 22
DERECO # 07748229		sheets





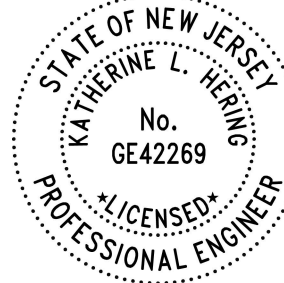
LEGEND			
<span style="color: red;">—</span>	PROPOSED EXPORT CABLE	<span style="color: brown;">—</span>	TIDELANDS CLAIM LINE
<span style="color: yellow;">---</span>	TEMPORARY CONSTRUCTION EASEMENT LINE	<span style="color: brown;">---</span>	LIMIT OF DISTURBANCE
<span style="color: magenta;">---</span>	PERMANENT UTILITY EASEMENT LINE	<span style="color: black;">---</span>	SILT FENCE/SILT SOCK
<span style="color: orange;">---</span>	FEMA LINE AND DESIGNATION	<span style="color: black;">X</span>	DELINEATED WETLAND
<span style="color: green;">---</span>	LIMIT OF 1970 COASTAL WETLAND LINE	<span style="background-color: black; color: white;"> </span>	LAYDOWN AREA (TO BE CLEARED AND OVERLAID WITH STONE OR TIMBER MATTING)
<span style="color: yellow;">---</span>	LIMIT OF DELINEATED WETLAND		
<span style="color: green;">---</span>	WETLAND TRANSITION AREA		
<span style="color: green;">---</span>	RIPIARIAN ZONE		
<span style="color: blue;">---</span>	MEAN HIGH WATER LINE		
<span style="color: blue;">---</span>	OPEN WATER		

NO IMPACT TO REGULATED AREAS ON THIS SHEET



0 50' 100'  
SCALE IN FEET

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION



KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER

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- REFERENCES:
- IMAGERY PROVIDED BY NEARMAP DATED OCTOBER 2021

FOR PERMITTING APPROVAL

**Ocean Wind 1**  
An Ørsted & PSEG project

N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
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designed	JMS	checked	KLH/JMS

NJDEP INDIVIDUAL PERMIT PLANS

OCEAN WIND OFFSHORE WIND PROJECT

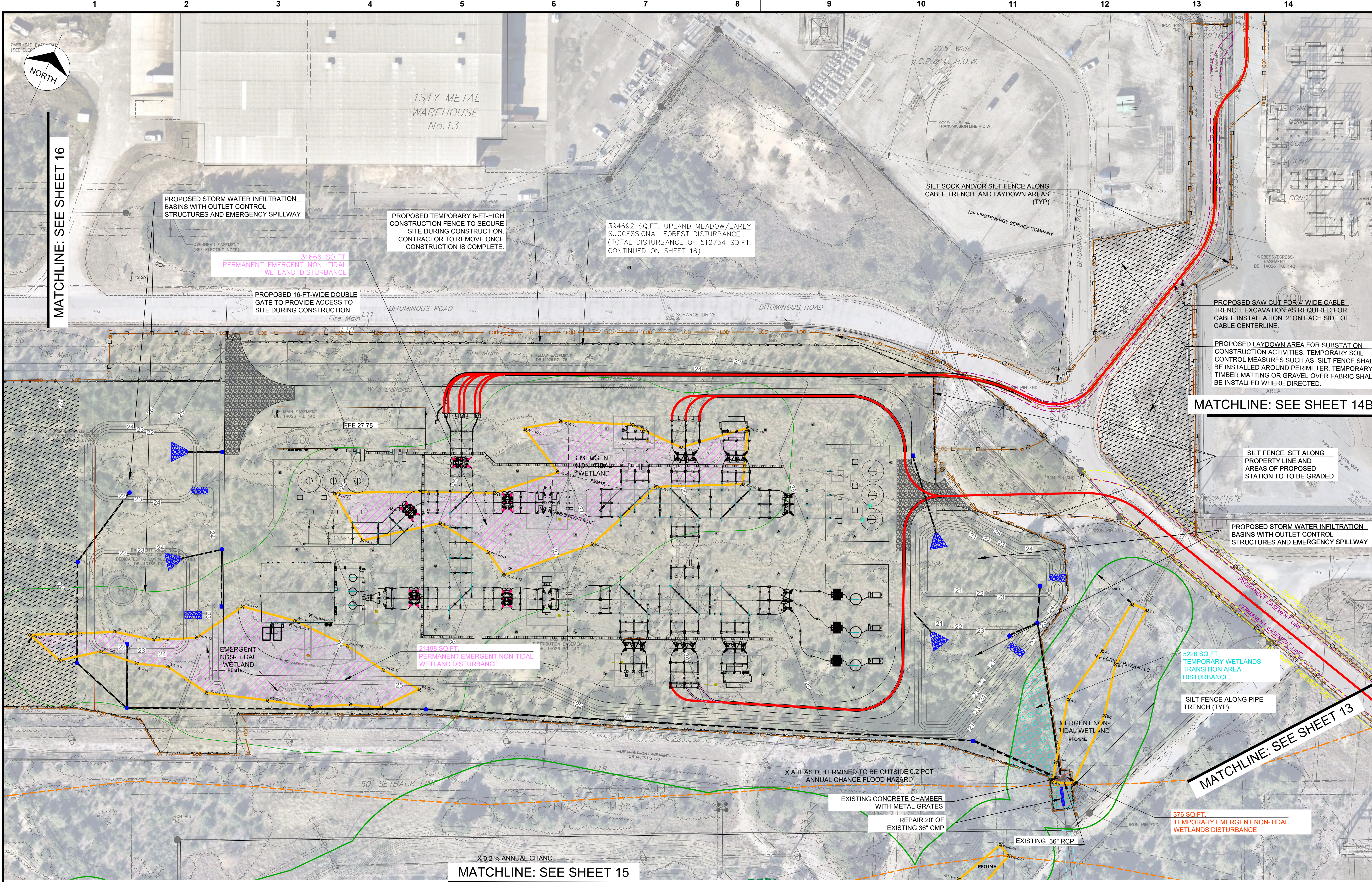
OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing **OL-OC013** — **4** rev.

sheet 13 of 22 sheets  
DERECO # 07748229





LEGEND			
	PROPOSED EXPORT CABLE		STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY CONSTRUCTION EASEMENT LINE		PERMANENT EMERGENT WETLANDS DISTURBANCE
	PERMANENT UTILITY EASEMENT LINE		TEMPORARY EMERGENT NON-TIDAL WETLANDS DISTURBANCE
	FEMA LINE AND DESIGNATION		TEMPORARY WETLANDS TRANSITION AREA DISTURBANCE
	LIMIT OF DELINEATED WETLAND		PROPOSED LAYDOWN AREA FOR SUBSTATION
	WETLAND TRANSITION AREA		UPLAND MEADOW EARLY-SUCCESSIONAL FOREST
	LIMIT OF DISTURBANCE		
	SILT FENCE/SILT SOCK		
	DELINEATED WETLAND		

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE					
	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL	UPLAND MEADOW
<b>FRESHWATER WETLANDS</b>					
PERMANENT			53164 SQ.FT. 1.220 ACRES		53164 SQ.FT. 1.220 ACRES
TEMPORARY			376 SQ.FT. 0.008 ACRES		376 SQ.FT. 0.008 ACRES
<b>FRESHWATER WETLANDS TRANSITION AREA</b>					
PERMANENT					
TEMPORARY			5226 SQ.FT. 0.120 ACRES		5226 SQ.FT. 0.120 ACRES
<b>RIPARIAN ZONE</b>					
PERMANENT					
TEMPORARY					

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE			
	UPLAND MEADOW EARLY-SUCCESSIONAL FOREST	UPLAND FOREST	TOTAL
WOODY VEGETATION CLEARING			
GROSS AREAS	394692 SQ.FT. 9.060 ACRES	394692 SQ.FT. 9.060 ACRES	



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KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

**NJDEP INDIVIDUAL PERMIT PLANS**

**OCEAN WIND OFFSHORE WIND PROJECT**

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing **OL-OC014** - rev. **4**

sheet 14 of 22 sheets  
DERECO # 07748229





LEGEND

PROPOSED EXPORT CABLE

TEMPORARY CONSTRUCTION EASEMENT LINE

PERMANENT UTILITY EASEMENT LINE

FEMA LINE AND DESIGNATION

LIMIT OF DELINEATED WETLAND

WETLAND TRANSITION AREA

LIMIT OF DISTURBANCE

SILT FENCE/SILT SOCK

DELINEATED WETLAND

STABILIZED CONSTRUCTION ENTRANCE

PROPOSED LAYDOWN AREA FOR SUBSTATION

UPLAND MEADOW EARLY-SUCCESSIONAL FOREST

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REFERENCES:

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FOR PERMITTING APPROVAL

Ocean Wind 1

An Ørsted & PSEG project

N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200

E 2 PROJECT MANAGEMENT LLC

87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
www.E2PM.com

E2PM

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

NJDEP INDIVIDUAL PERMIT PLANS

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing OL-OC014B

sheet 14 of 22 sheets

DERECO # 07748229

rev. 4

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

STATE OF NEW JERSEY

KATHERINE L. HERING

No. GE42269

LICENSED PROFESSIONAL ENGINEER

KEYMAP

SCALE: 1"=10,000'

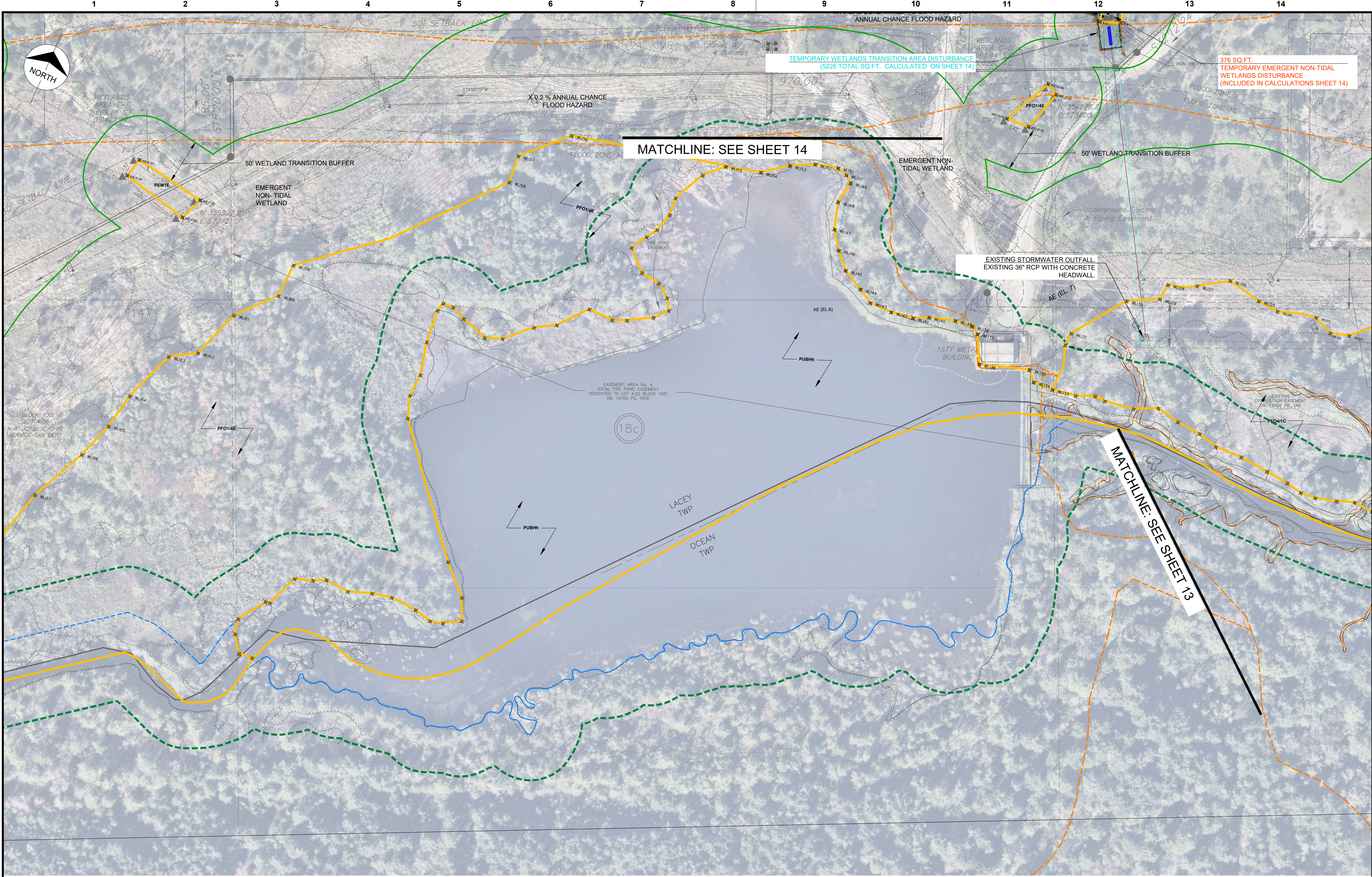
0 50' 100'

SCALE IN FEET

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900

LICENSED PROFESSIONAL ENGINEER





LEGEND

FEMA LINE AND DESIGNATION

WETLAND TRANSITION AREA

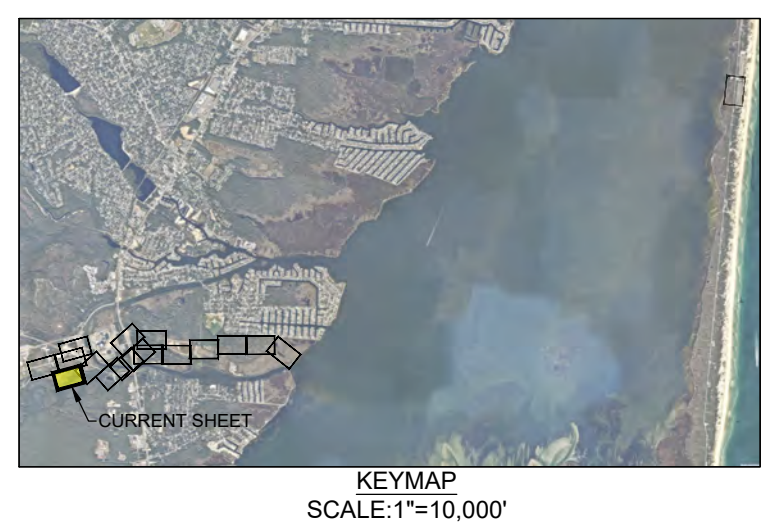
TIDELANDS CLAIMS LINE

DELINEATED WETLAND

TEMPORARY EMERGENT NON-TIDAL WETLANDS DISTURBANCE

TEMPORARY WETLANDS TRANSITION AREA DISTURBANCE

NO IMPACT TO REGULATED AREAS ON THIS SHEET



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STATE OF NEW JERSEY

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LICENSED PROFESSIONAL ENGINEER

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4	6/12/2023	AG	JSK/LH	REVISED TO ADDRESS MINOR COMMENTS ISSUED FOR PERMITS

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An Ørsted & PSEG project

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designed	JMS	checked	KLH/JMS

NJDEP INDIVIDUAL PERMIT PLANS

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing OL-OC015

sheet 15 of 22 sheets

DERECO # 07748229

rev.

4





LEGEND

FEMA LINE AND DESIGNATION

LIMIT OF DELINEATED WETLAND

WETLAND TRANSITION AREA

LIMIT OF DISTURBANCE

SILT FENCE/SILT SOCK

DELINEATED WETLAND

PERMANENT EMERGENT WETLANDS DISTURBANCE

PROPOSED LAYDOWN AREA FOR SUBSTATION

UPLAND MEADOW EARLY-SUCCESSIONAL FOREST

TREES AND SCRUB- SHRUB VEGETATION CLEARING IMPACT TABLE

	UPLAND MEADOW (EARLY-SUCCESSIONAL FOREST)	UPLAND FOREST	TOTAL
WOODY VEGETATION CLEARING			
GROSS AREAS	118062 SQ.FT. 2.710 ACRES	118062 SQ.FT. 2.710 ACRES	

KEYMAP

SCALE: 1"=10,000'

0 50' 100'

SCALE IN FEET

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OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project  
P-21-03-26

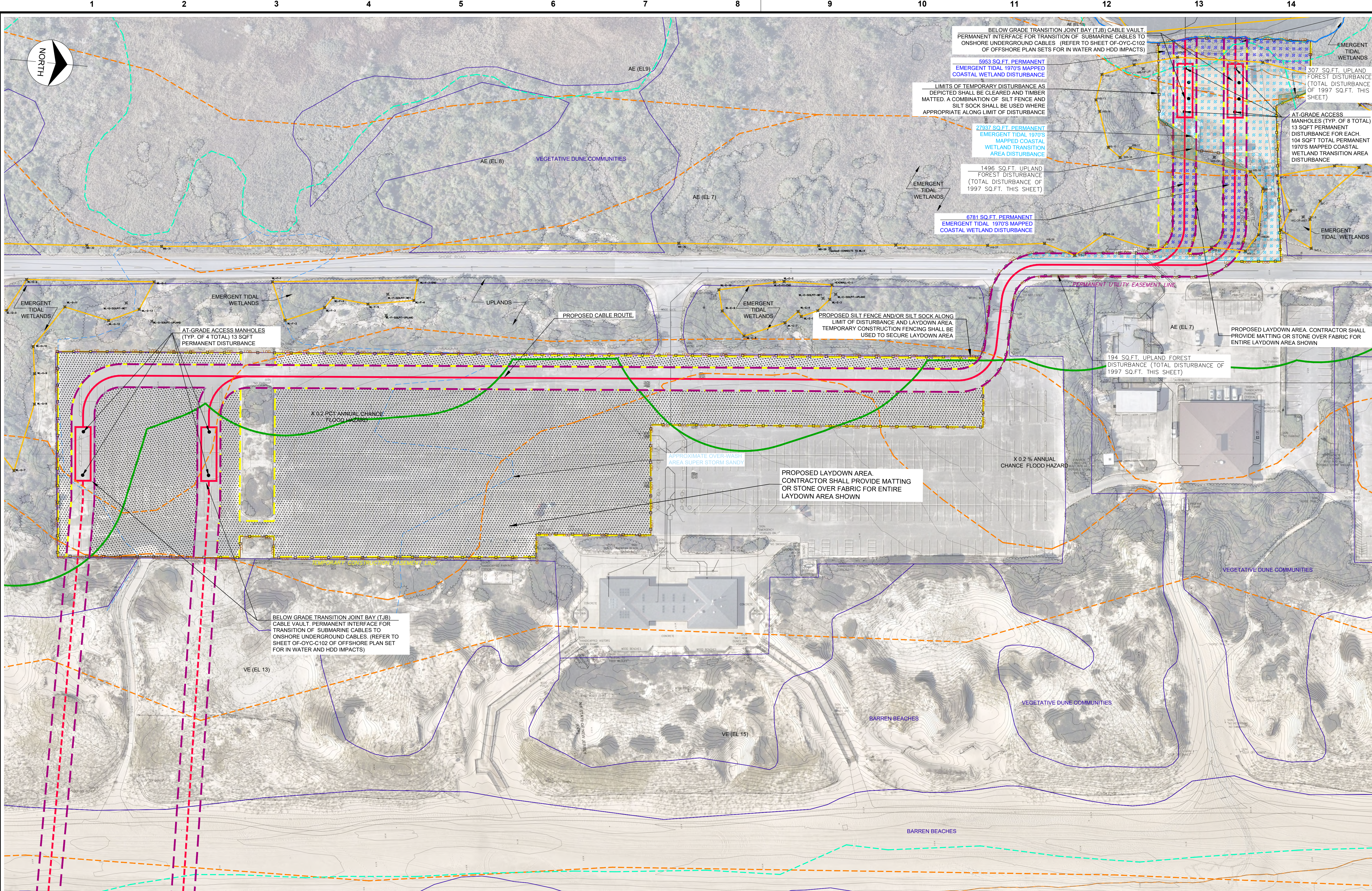
drawing  
OL-OC016

sheet 16 of 21 sheets

DERECO # 07748229

rev. 4





PROPOSED EXPORT CABLE

PROPOSED EXPORT CABLE (HDD)

TEMPORARY CONSTRUCTION EASEMENT LINE

PERMANENT UTILITY EASEMENT LINE

FEMA LINE AND DESIGNATION

LIMIT OF 1970 COASTAL WETLAND LINE

LIMIT OF DELINEATED WETLAND

WETLAND TRANSITION AREA

TIDELANDS CLAIM LINE

LIMIT OF DISTURBANCE

SILT FENCE/SILT SOCK

OVER-WASH AREA LINE

DUNE LIMITS

DELINEATED WETLAND

LAYDOWN AREA (TO BE CLEARED AND OVERLAID WITH STONE OR TIMBER MATTING)

MANHOLE

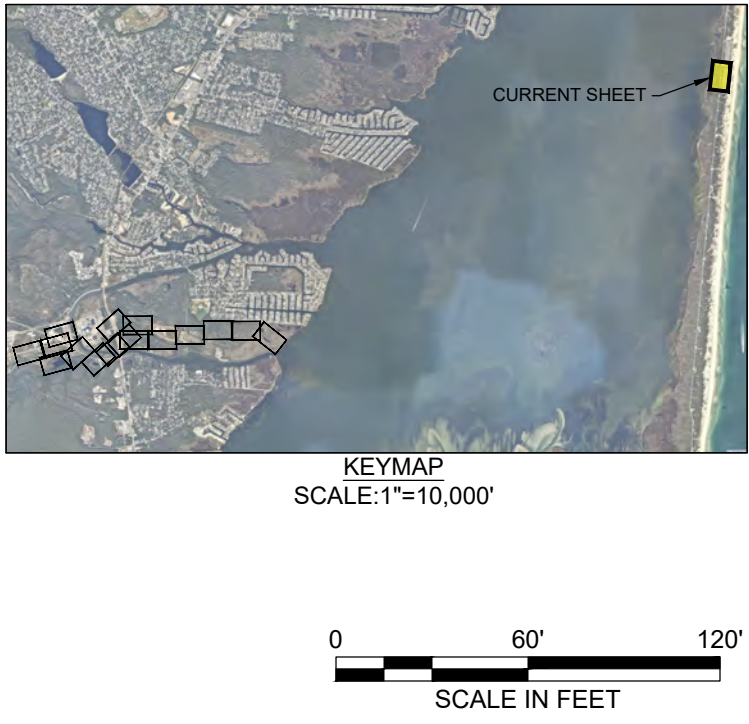
TEMPORARY EMERGENT TIDAL 1970'S MAPPED COASTAL WETLANDS TRANSITION AREA DISTURBANCE

TEMPORARY EMERGENT TIDAL 1970'S MAPPED COASTAL WETLANDS DISTURBANCE

UPLAND FOREST

NJDEP DIVISION OF LAND RESOURCE PROTECTION JURISDICTIONAL RESOURCE IMPACT TABLE				
	FORESTED	SCRUB-SAPLING	EMERGENT NON-TIDAL	EMERGENT TIDAL/ UPLAND MEADOW
COASTAL WETLANDS (1970 ACT)				
PERMANENT			12734 SQ.FT. 0.292 ACRES	12734 SQ.FT. 0.292 ACRES
TEMPORARY				
COASTAL WETLANDS TRANSITION AREA				
PERMANENT			28041 SQ.FT. 0.643 ACRES	28041 SQ.FT. 0.643 ACRES
TEMPORARY				

TREES AND SCRUB-SHRUB VEGETATION CLEARING IMPACT TABLE		
	UPLAND FOREST	TOTAL
WOODY VEGETATION CLEARING		
GROSS AREAS	1997 SQ.FT. 0.046 ACRES	1997 SQ.FT. 0.046 ACRES



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STATE OF NEW JERSEY

KATHERINE L. HERING

No. GE42269

LICENSED PROFESSIONAL ENGINEER

0 60' 120'

SCALE IN FEET

no. | date | by | ckd | description

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OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project P-21-03-26

drawing OL-OC017

sheet 17 of 22 sheets

DERECO # 07748229

rev. 4



TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

SITE PREPARATION

- GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING (19-1) OF STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, IN NEW JERSEY.
- INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS, SEE STANDARDS 11 THROUGH 42 IN STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, IN NEW JERSEY.
- IMMEDIATELY PRIOR TO SEEDING THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

SEEDBED PREPARATION

- APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.
- WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTROL. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.
- SOILS HIGH IN SULFUR OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PAGE 1-1 IN THE STANDARD FOR SOIL EROSION AND SEDIMENT CONTROL, IN NEW JERSEY.

SEEDING

- A. SELECT SEED FROM RECOMMENDATIONS IN TABLE 7-2 SHOWN BELOW:

TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES, AND DEPTH							
SEED SELECTIONS	SEEDING RATES (1)		OPTIMUM SEEDING DATE (2) BASED ON PLANT HARDINESS ZONE (3)			OPTIMUM SEED DEPTH (INCHES) (4)	
			PLANT HARDINESS ZONE				
	LBS/ ACRE	LBS/1000 SQ.FT.	ZONE 5B, 6S	ZONE 6B	ZONE 7A		7B
COOL SEASON GRASSES							
1. PERENNIAL RYEGRASS	100	1.0	3/15-6/1 & 8/1-9/15	3/1-5/15 & 8/15-10/1	2/15-5/1 & 8/15-10/15		0.5
2. SPRING DOCS	86	2.0	3/15-6/1 & 8/1-9/15	3/1-5/15 & 8/15-10/1	2/15-5/1 & 8/15-10/15		1.0
3. WINTER BARLEY	96	2.2	8/1-9/15	8/15-10/1	8/15-10/15		1.0
4. ANNUAL RYEGRASS	100	1.0	3/15-6/1 & 8/1-9/15	3/15-6/1 & 8/1-9/15	2/15-5/1 & 8/15-10/15		0.5
5. WINTER CEREAL RYE	112	2.8	8/1-11/1	8/1-11/15	8/1-12/15		1.0
WARM SEASON GRASSES							
6. PEARL MILLET	20	0.5	6/1-8/1	5/15-8/15	5/1-9/1		1.0
7. MILLET (GERMAN OR HUNGARIAN)	30	0.7	6/1-8/1	5/15-8/15	5/1-9/1		1.0

- SEEDING RATE FOR WARM SEASON GRASSES, SELECTIONS 5-7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.
- MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEED AREA CAN BE IRRIGATED.
- PLANT HARDINESS ZONE (SEE FIGURE 7-1, PG 7-4) OF THE STANDARDS FOR EROSION AND SEDIMENT CONTROL, IN NEW JERSEY TWICE THE DEPTH FOR SANDY SOILS.
- SEEDING RATE FOR COARSE TEXTURED SOILS.

- C. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
- C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV.) MULCHING/HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
- D. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD, WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

MULCHING

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

- A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH-CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED, FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITH EACH SECTION.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

- PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH AROUND EACH PEG BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTINGS IN AREAS TO BE MOWED.
- CRIMPER (MULCH ANCHORING TOOL). A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OR SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. CRIMPING MULCH ANCHORING AGENT IS REQUIRED.
- LIQUID MULCH-BINDERS. - MAY BE USED TO ANCHOR HAY OR STRAW MULCH.
  - APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
  - USE ONE OF THE FOLLOWING:
    - ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
    - SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

- NOTE: ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
- B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 PONDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS, IN THE PEG PELLETS, WHEN APPLIED TO A SEEDBED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEE FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.

APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE

STANDARD FOR TOPSOILING

- MATERIALS
  - TOPSOIL SHOULD BE FRIABLE, LOAMY2, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIHOS PER CENTIMETER. MORE THAN 0.5 MILLIHOS WILL BE ADEQUATE FOR MOST PLANTS. IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2-7% PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
  - TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER, AND/OR OTHER SUBSTANCES. TOPSOIL SUBSTITUTE MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.
- STRIPPING AND STOCKPILING
  - A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
  - B. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
  - C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5.
  - D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
  - E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
  - F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEE STANDARDS FOR PERMANENT (PG. 4-1) OR TEMPORARY (PG. 7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
- SITE PREPARATION
  - A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE
  - B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE STANDARD FOR LAND GRADING, PG. 19-1.
  - C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF APPROXIMATELY 4 INCHES.
  - D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING, PG. 19-1.
  - E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
- APPLYING TOPSOIL
  - A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY (SEE GLOSSARY).
  - B. A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN REQUIREMENTS ARE APPLIED. COURSES, SPORTS FIELDS, LANDFILL CAPING, ETC. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS (PG. 1-1).
  - C. PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK BY THE CONTRACTOR TO CORRECT THE DEFICIENCY. THE CONTRACTOR SHALL FOLLOWING: SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

STANDARD FOR MAINTAINING VEGETATION

A PREVENTIVE MAINTENANCE PROGRAM ANTICIPATES REQUIREMENTS AND ACCOMPLISHES WORK WHEN IT CAN BE DONE WITH LEAST EFFORT AND EXPENSE TO INSURE ADEQUATE VEGETATIVE COVER.

- MAINTENANCE SHOULD OCCUR ON A REGULAR BASIS, CONSISTENT WITH FAVORABLE PLANT GROWTH, SOIL, AND CLIMATIC CONDITIONS. THIS INVOLVES REGULAR SEASONAL WORK FOR MOWING, FERTILIZING, LIMING, WATERING, PRUNING, FIRE CONTROL, WEED AND PEST CONTROL, RESEEDING, AND TIMELY REPAIRS.
- THE DEGREE OF PREVENTIVE MAINTENANCE NEEDED DEPENDS UPON THE TYPE OF VEGETATION AND ITS PROPOSED FUNCTION OR USE.
- MOWING IS A RECURRING PRACTICE AND ITS INTENSITY DEPENDS UPON THE FUNCTION OF THE GROUND COVER, ON HIGH TO MODERATE (A TO B) MAINTENANCE AREAS, SUCH AS LAWNS, CERTAIN RECREATION FIELDS, AND PICNIC AREAS, MOWING WILL BE FREQUENT (2 TO 7 DAY INTERVALS) AND TYPICALLY AT A HEIGHT OF 2.5 TO 3 INCHES. RETURN CLIPPINGS FROM MOWING (MULCHING MOWER) TO THE TURF TO REDUCE THE AMOUNT OF FERTILIZER NEEDED TO MAINTAIN SUCH AREAS. TURF MIXTURES CAN BE MANAGED AS NATURALIZED STANDS REQUIRING ONLY ONE (COOL SEASON MIXTURES) OR TWO (WARM SEASON MIXTURES) MOWINGS PER YEAR. MOWING OF NATURALIZED AREAS IS TYPICALLY DONE AT HEIGHTS NO LESS THAN 4 INCHES AND SHOULD NOT BE DONE BETWEEN APRIL 1ST AND JULY 15TH TO AVOID DISBURSING AND NESTING BIRDS. THE LARGE AMOUNT OF CLIPPINGS DEBRIS GENERATED BY MOWING NATURALIZED AREAS WILL NEED TO BE REMOVED AND/OR DISPERSED SO THE VEGETATION IS NOT SMOTHERED. BURNING OF NATURALIZED AREAS IS ANOTHER PROCEDURE USED TO MANAGE NATURALIZED TURFS. LOW MAINTENANCE (D) AREAS MAY BE LEFT UNMOWED TO PERMIT NATURAL SUCCESSION. SEE PG. 4-13 FOOTNOTE #4, MAINTENANCE LEVELS A, B, C AND D IN THE STANDARD FOR PERMANENT VEGETATIVE COVER, TABLE 4-3.
  - INCORPORATION OF ORGANIC MATTER (FOR EXAMPLE, MATURE COMPOST) INTO THE SOIL WILL SUBSTANTIALLY REDUCE THE NEED FOR FERTILIZER AND IRRIGATION INPUTS.
  - FERTILIZER AND LIME SHOULD BE APPLIED TO MAINTAIN A DENSE STAND OF DESIRABLE SPECIES. FREQUENTLY MOVED AREAS AND THOSE ON SANDY SOILS WILL REQUIRE MORE FREQUENT FERTILIZATION BUT AT LOWER NUTRIENT RATES PER APPLICATION.
  - LIME REQUIREMENT SHOULD BE DETERMINED BY SOIL TESTING EVERY 2 OR 3 YEARS. FERTILIZATION MAY INCREASE THE NEED FOR LIMING. CONTACT THE LOCAL COUNTY EXTENSION OFFICE FOR DETAILS ON SOIL TESTING AND FERTILIZATION AND PEST CONTROL RECOMMENDATIONS ONLINE AT HTTP://NJAES.RUTGERS.EDU/COUNTY/.
  - FERTILIZATION AND ADDITIONS OF OTHER SOIL AMENDMENTS ARE NOT RECOMMENDED FOR MANAGING NATIVE VEGETATION SUCH AS IN THIS CASE. INSTEAD, RESERVE. SEE THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION FOR SPECIFIC REQUIREMENTS IN THE PNR.
  - WEED INVASION MAY RESULT FROM ABUSIVE MOWING AND FROM INADEQUATE FERTILIZING AND LIMING. MANY NEELY ESTABLISHED GRASSES WILL NOT SURVIVE SPR MOWED AT HEIGHTS BELOW 2.5 INCHES AND AT INTERVALS GREATER THAN 7 DAYS. BRUSH INVASION IS A COMMON CONSEQUENCE OF LACK OF MOWING. THE AMOUNT OF WEEDS OR BRUSH THAT CAN BE TOLERATED IN ANY VEGETATED AREA DEPENDS UPON THE INTENDED USE OF THE LAND. DRAINAGE WAYS ARE SUBJECT TO RAPID INFESTATION BY WEED AND WOODY PLANTS. THESE SHOULD BE CONTROLLED, SINCE THEY CAN REDUCE DRAINAGE WAY EFFICIENCY. CONTROL OF WEEDS OR BRUSH IS ACCOMPLISHED BY USING HERBICIDES OR MECHANICAL METHODS.
  - FIRE HAZARD IS GREATER WHERE DRY VEGETATION HAS ACCUMULATED. THE TALLER THE VEGETATION, THE GREATER THE HAZARD.
  - PRUNE TREES AND SHRUBS TO REMOVE DEAD OR DAMAGED BRANCHES. REMOVE UNDESIRABLE OR INVASIVE PLANTS TO MAINTAIN INTEGRITY OF THE LANDSCAPE AND ENHANCE QUALITY OF PERMANENT VEGETATIVE COVER.

FLOCCULANT NOTES

- A FLOCCULANT SUCH AS "PAM" (POLYACRYLAMIDE) MAY BE ADDED TO THE BASIN IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS TO REMOVE FINE SUSPENDED MATERIAL PRIOR TO DEWATERING. ALL DEWATERING DISCHARGES MUST BE TO A STABILIZED LOCATION. A SOURCE OF FREE CATIONIC IONS (SUCH AS CA 2+) MAY BE REQUIRED AT A RATE OF 50-50 MG CA2+ / KG PAM TO ENCOURAGE BONDING BETWEEN COLLOIDS AND PAM. MATERIALS SUCH AS LIME, CALCL, GYPSUM OR FLYASH MAY BE USED TO PROVIDE THE CATION COMPONENT. THE FLOCCULANT SHALL NOT CAUSE ADVERSE ENVIRONMENTAL CONDITIONS TO DEVELOP IN THE AREA RECEIVING THE BASIN DISCHARGE. FLOCCULANT MAY BE ADDED THROUGH THE USE OF 'LOGS' OR SIMILAR DEVICES IMPREGNATED WITH PAM TO DOSE INFLOW WATER PRIOR TO ENTRANCE TO THE SEDIMENT BASIN. SUCH DEVICES SHALL BE PLACED TO ALLOW COMPLETE PASSAGE OF THE DESIGN STORM AND SHALL NOT OBSTRUCT FLOW THROUGH STORM SEWER SYSTEMS.

DUST CONTROL METHODS:

- THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:
1. VEGETATIVE COVER - SEE STANDARD FOR PERMANENT VEGETATIVE COVER STANDARDS
2. SPRAY ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
- | DUST CONTROL MATERIAL            |   |                |                    |  |
|----------------------------------|---|----------------|--------------------|--|
| MATERIAL                         | WATER DELUSION  | TYPE OF NOZZLE | APPLY GALLONS/ACRE |  |
| ANIONIC ASPHALT EMULSION         | 7:1   | COARSE SPRAY   | 1200               |  |
| LATEX EMULSION                   | 12.5:1  | FINE SPRAY     | 235                |  |
| RESIN IN WATER                   | 4:1   | FINE SPRAY     | 300                |  |
| POLYACRYLAMIDE (PAM) - SPRAY ON  | APPLY ACCORDING TO MANUFACTURERS INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BARRING TO |                |                    |  |
| POLYACRYLAMIDE (PAM) - DRY SPRAY | FLOCCULANT AND PRECIPITATE SUSPENDED COLLOIDS   |                |                    |  |
| ACIDULATED SOY BEAN SOAP STICK   | NONE  | COARSE SPRAY   | 1200               |  |
- ILLAGE - TO ROUGHEN SURFACE AND BRING LOGS TO THE SURFACE. THIS IS TEMPORARY EMERGENCY REPAIR WHICH SHALL BE APPLIED AS NECESSARY TO PREVENT DISTURBANCE OF THE SURFACE. THIS IS ESPECIALLY TRUE WHEN SITES OF SITE. CHISEL - TYPE PLOWS ABOUT 12 INCHES APART AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE DESIRED EFFECT.

- SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
- BARRIERS - SOLID BOARD FENCE, SNOW FENCES, BURLAP FENCES, BALES OF HAY OR SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEP SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

SITE PREPARATION

- GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING (19-1) OF STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, IN NEW JERSEY.
- IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
- TOPSOIL SHOULD BE APPLIED TO THE SURFACE WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
- INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

SEEDBED PREPARATION

- UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
- WORK LINE AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

SEEDING

- SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE FOR THE CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED.
- SEEDING RATES ARE SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE PLANTING DATE AND MOWED ONCE.
- WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 850 F AND ABOVE. SEE TABLE 4-3 MIXTURES 1 TO 7. PLANTING- RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
- COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 850 MAY GRASSES BECOME ACTIVE AT 650 SEE TABLE 4-3, MIXTURES 8-20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
- CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
- AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD, WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
- HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SHORTYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV.) MULCHING BELOW. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

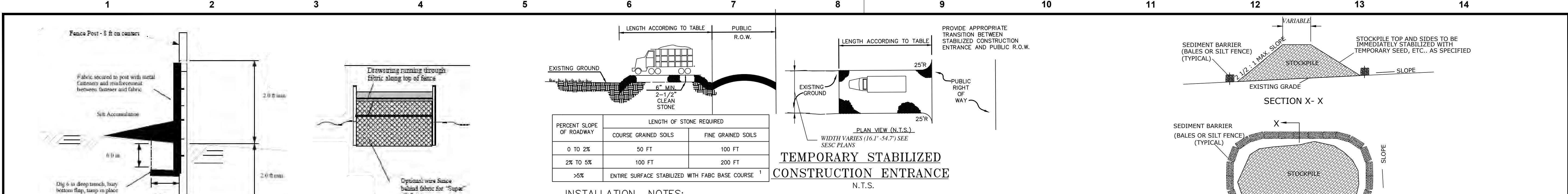
MULCHING

- MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.
- STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH-CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
  - APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITH EACH SECTION.
  - ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
    - PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH AROUND EACH PEG BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
    - MULCH NETTINGS - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
    - CRIMPER (MULCH ANCHORING COULTER TOOL) - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OR SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
    - LIQUID MULCH-BINDERS - MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.
      - APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
      - USE ONE OF THE FOLLOWING:
        - ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER-BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
        - SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

- NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
- WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS. USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. **MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED.** USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
  - PELLETIZED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS, IN THE PEG PELLETS, WHEN APPLIED TO A SEEDBED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDBED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.

- INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.
- IRRIGATION (WHERE FEASIBLE)
- IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE





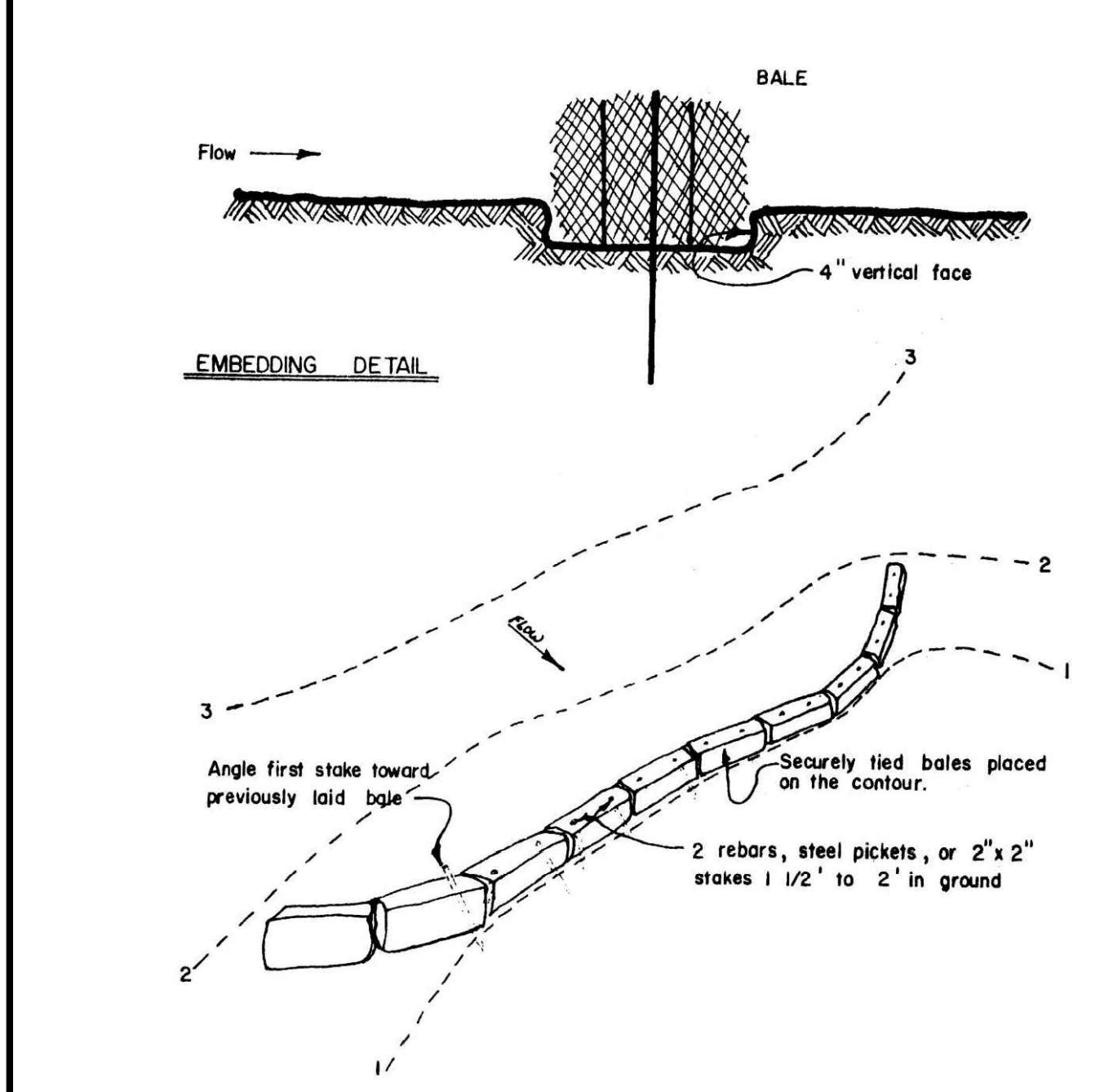
**INSTALLATION NOTES:**

- FENCE POSTS SHALL BE SPACED 8 FEET CENTER TO CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH MINIMUM DIAMETER THICKNESS OF 1-1/2 INCHES.
- SUPER SILT FENCE** - A METAL FENCE WITH 6 INCH OR SMALLER MESH OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC. POSTS MAY BE SPACED LESS THAN 8 FEET ON CENTER AND MAY BE CONSTRUCTED OF HEAVY WOOD OR METAL AS NEEDED TO WITHSTAND HEAVIER SEDIMENT LOADING. THIS PRACTICE IS APPROPRIATE WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED. "SUPER" SILT FENCE IS NOT TO BE USED IN PLACE OF PROPERLY DESIGNED DIVERSIONS (PG. 15-1) WHICH MAY BE NEEDED TO CONTROL SURFACE RUNOFF RATES AND VELOCITIES.
- A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.
- THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT BYPASS THE BARRIER AROUND THE ENDS.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDED FLOW OR DRAINAGE.

**MAINTENANCE NOTES:**

- SEDIMENT SHALL BE REMOVED FROM UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF HALF THE BARRIER HEIGHT.
- REPAIR OR REPLACE BARRIER (FABRIC, POSTS, BALES, ETC.) WHEN DAMAGED.
- BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL.

**TYPICAL SILT FENCE**  
N.T.S.



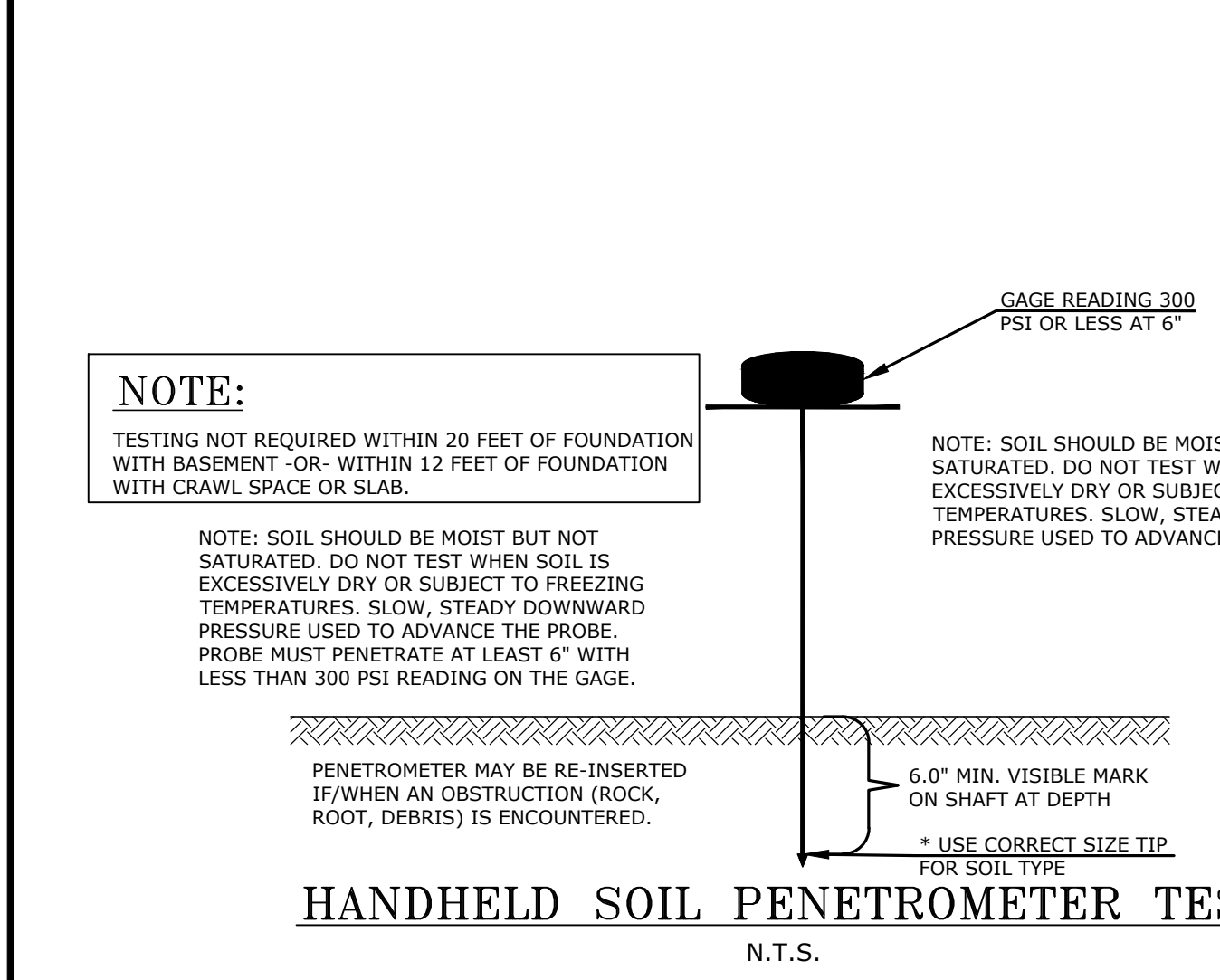
**INSTALLATION NOTES:**

- ALL BALES SHALL BE SECURELY TIED AND STAKED ON THE CONTOUR AS SHOWN ABOVE.
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO STAKES OR RE-BARS DRIVEN THROUGH EACH BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT BYPASS THE BARRIER AROUND THE ENDS.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDED FLOW OR DRAINAGE.

**MAINTENANCE NOTES:**

- SEDIMENT SHALL BE REMOVED FROM UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF HALF THE BARRIER HEIGHT.
- REPAIR OR REPLACE BARRIER (FABRIC, POSTS, BALES, ETC.) WHEN DAMAGED.
- BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL.

**TYPICAL HAY BALE**  
N.T.S.



**HANDHELD SOIL PENETROMETER TEST**  
N.T.S.

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE	

**INSTALLATION NOTES:**

- AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY. SEE SOIL EROSION AND SEDIMENT CONTROL PLANS FOR TEMPORARY STABILIZED CONSTRUCTION ENTRANCE WIDTHS.
- INDIVIDUAL LOT ENTRANCE AND EGRESS - AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOT INGRESS/EGRESS POINTS MAY REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF No. 3 STONE (1" TO 2") TO PREVENT OR MINIMIZE TRACKING OF SEDIMENT. WIDTH OF STONE INGRESS/EGRESS SHALL BE EQUAL TO LOT ENTRANCE WIDTH AND SHALL BE A MINIMUM OF 10 FEET IN LENGTH.
- IF SPACE IS LIMITED, VEHICLE TIRES MAY BE WASHED WITH CLEAN WATER BEFORE ENTERING A PAVED AREA. A WASH STATION MUST BE LOCATED SUCH THAT WASH WATER WILL NOT FLOW ONTO PAVED ROADWAYS OR INTO UNPROTECTED STORM DRAINAGE SYSTEMS.
- WHEN THE CONSTRUCTION ACCESS EXISTS ONTO A MAJOR ROADWAY, A PAVED TRANSITION AREA MAY BE INSTALLED BETWEEN THE MAJOR ROADWAY AND THE STONED ENTRANCE TO PREVENT LOOSE STONES FROM BEING TRANSPORTED OUT ONTO THE ROADWAY BY HEAVY EQUIPMENT ENTERING OR LEAVING THE SITE.

**MAINTENANCE NOTES:**

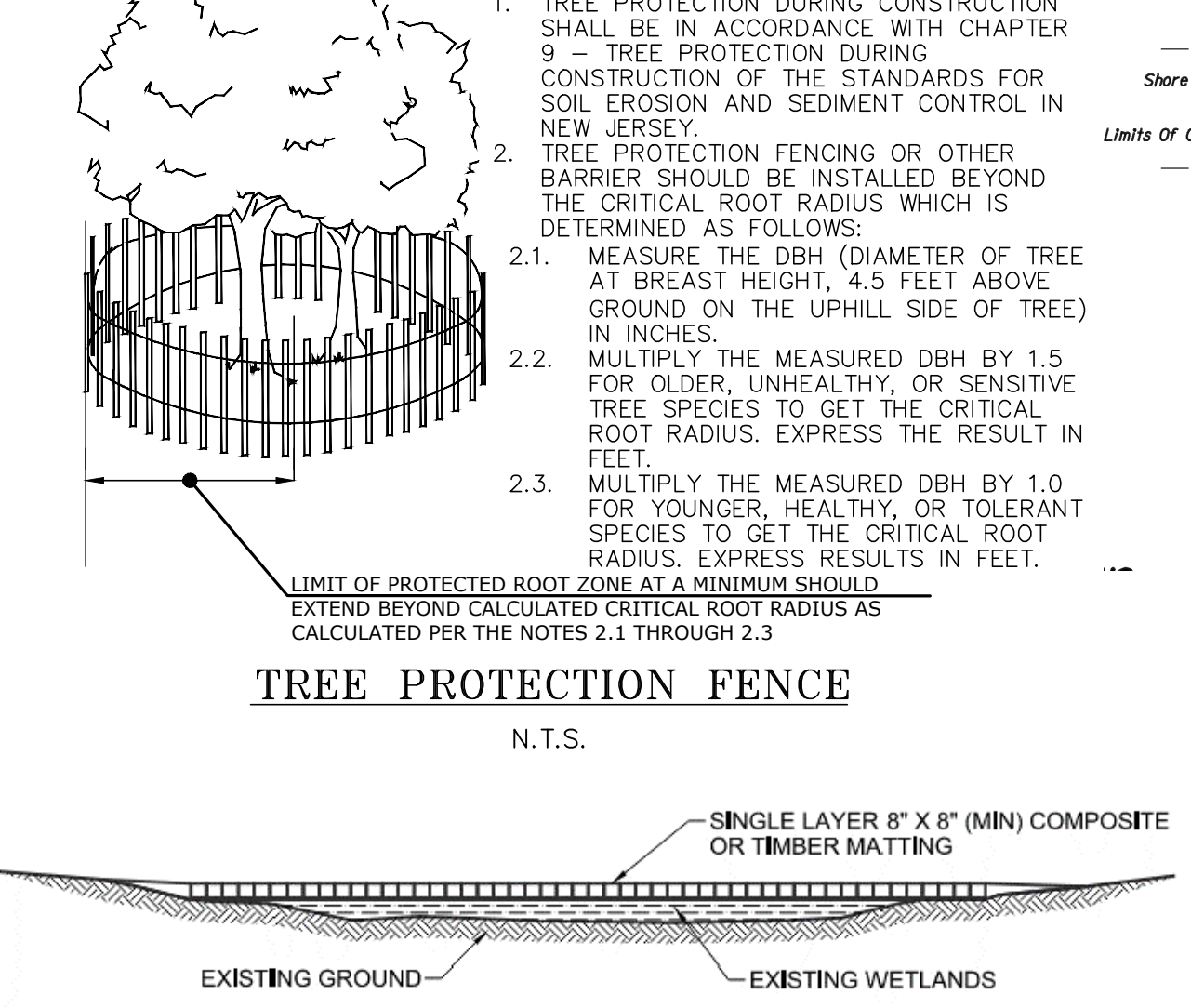
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL STONE OR OTHER IMPERVIOUS SURFACE MUST BE REMOVED IMMEDIATELY.
- WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES. ALL OTHER ACCESS POINTS WHICH ARE NOT STABILIZED SHALL BE BLOCKED OFF.

**TEMPORARY STABILIZED CONSTRUCTION ENTRANCE**  
N.T.S.

**NOTE:**

- TREE PROTECTION DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 9 - TREE PROTECTION DURING CONSTRUCTION OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- TREE PROTECTION FENCING OR OTHER BARRIER SHOULD BE INSTALLED BEYOND THE CRITICAL ROOT RADIUS WHICH IS DETERMINED AS FOLLOWS:
  - MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
  - MULTIPLY THE MEASURED DBH BY 1.5 FOR OLDER, UNHEALTHY, OR SENSITIVE TREE SPECIES TO GET THE CRITICAL ROOT RADIUS. EXPRESS THE RESULT IN FEET.
  - MULTIPLY THE MEASURED DBH BY 1.0 FOR YOUNGER, HEALTHY, OR TOLERANT SPECIES TO GET THE CRITICAL ROOT RADIUS. EXPRESS RESULTS IN FEET.

**TREE PROTECTION FENCE**  
N.T.S.



**WETLAND MATTING**  
N.T.S.

**NOTES:**

- CONSTRUCT ROADS AND PADS BY STACKING ADDITIONAL MATS AS NEEDED TO REDUCE THE SLOPE OF THE PAD SURFACE TO ALLOW SAFE OPERATION OF CONSTRUCTION EQUIPMENT.
- INSPECT MAT ROADS ON A DAILY BASIS. REPAIR DAMAGED MATS BEFORE ANY SUBSEQUENT USE.
- REMOVE THE TEMPORARY ROAD AND/OR PAD AS SOON AS IT IS NO LONGER NEEDED.
- ALL MATS SHALL BE CLEAN AND FREE OF ALL DEBRIS PRIOR TO ARRIVAL ON SITE.
- IF FLOWING WATER IS PRESENT, MATS SHALL BE STACKED WITH GAPS BETWEEN LOWER LAYERS TO ALLOW CONTINUOUS FLOW OF WATER THROUGH MATTED SECTION OF ACCESS.
- PERIODICALLY REMOVE SEDIMENT THAT IS FORCED UP ONTO MATS.
- WETLAND MATTING TYPE SHALL BE COMPOSITE OR WOOD.

**TEMPORARY CONSTRUCTION MATTING**  
N.T.S.

**SOIL DE-COMPACTION AND TESTING REQUIREMENTS**  
**SOIL COMPACTION TESTING REQUIREMENTS**

- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
- COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- IN THE EVENT THAT TESTING INDICATED COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.
- TESTING FOR SOIL DECOMPACTION TESTING IS NOT REQUIRED WITHIN 12 FEET OF PROPOSED GARAGE OR WITHIN DRIVEWAY AREA AS PER STANDARD FOR LAND GRADING OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

- COMPACTION TESTING METHODS**
- PROBING WIRE TEST (SEE DETAIL)
  - HAND-HELD PENETROMETER TEST (SEE DETAIL)
  - TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
  - N. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

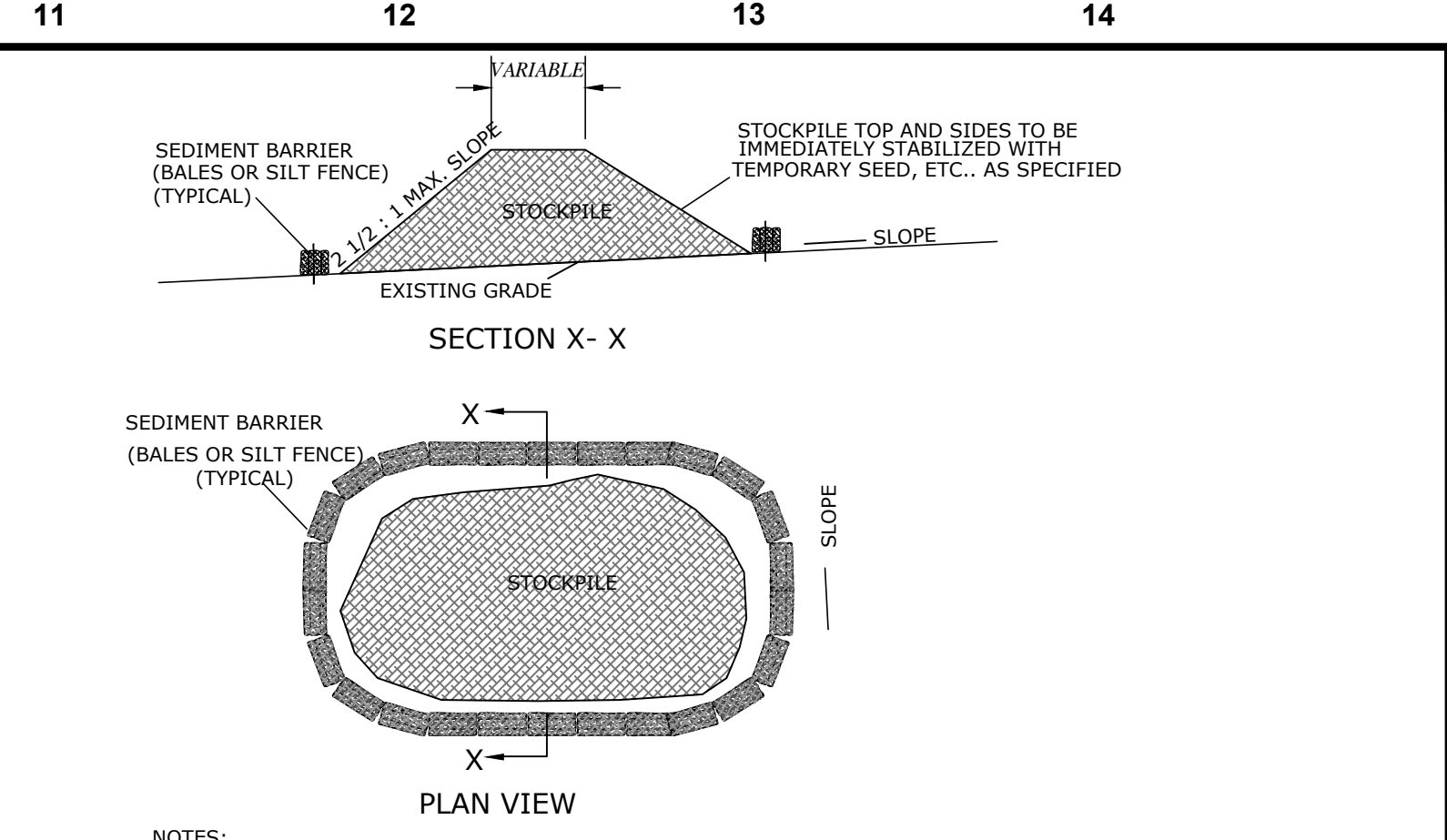
**NOTE:** ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

**SOIL COMPACTION TESTING NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH OR SIMILAR) IS PROPOSED AS PART OF SEQUENCE OF CONSTRUCTION.**

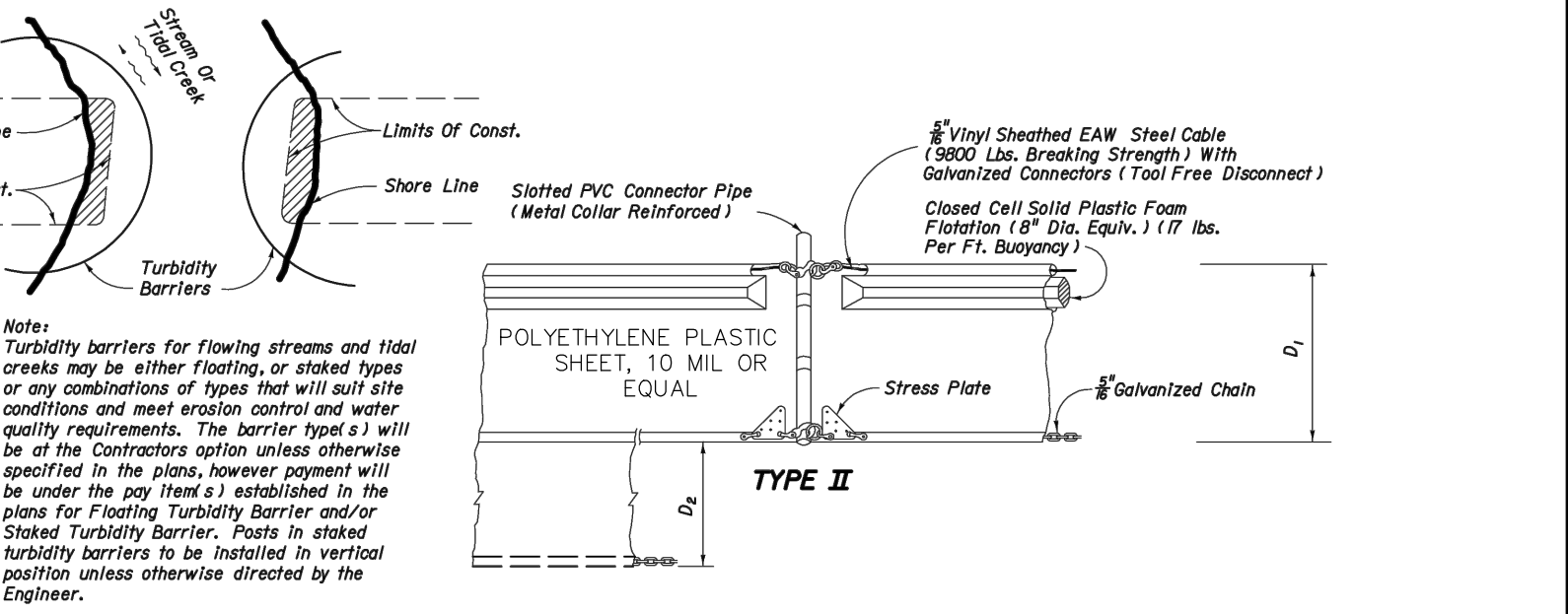
**PROCEDURES FOR SOIL COMPACTION MITIGATION**

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



**TYPICAL STOCKPILE CONSTRUCTION**  
N.T.S.



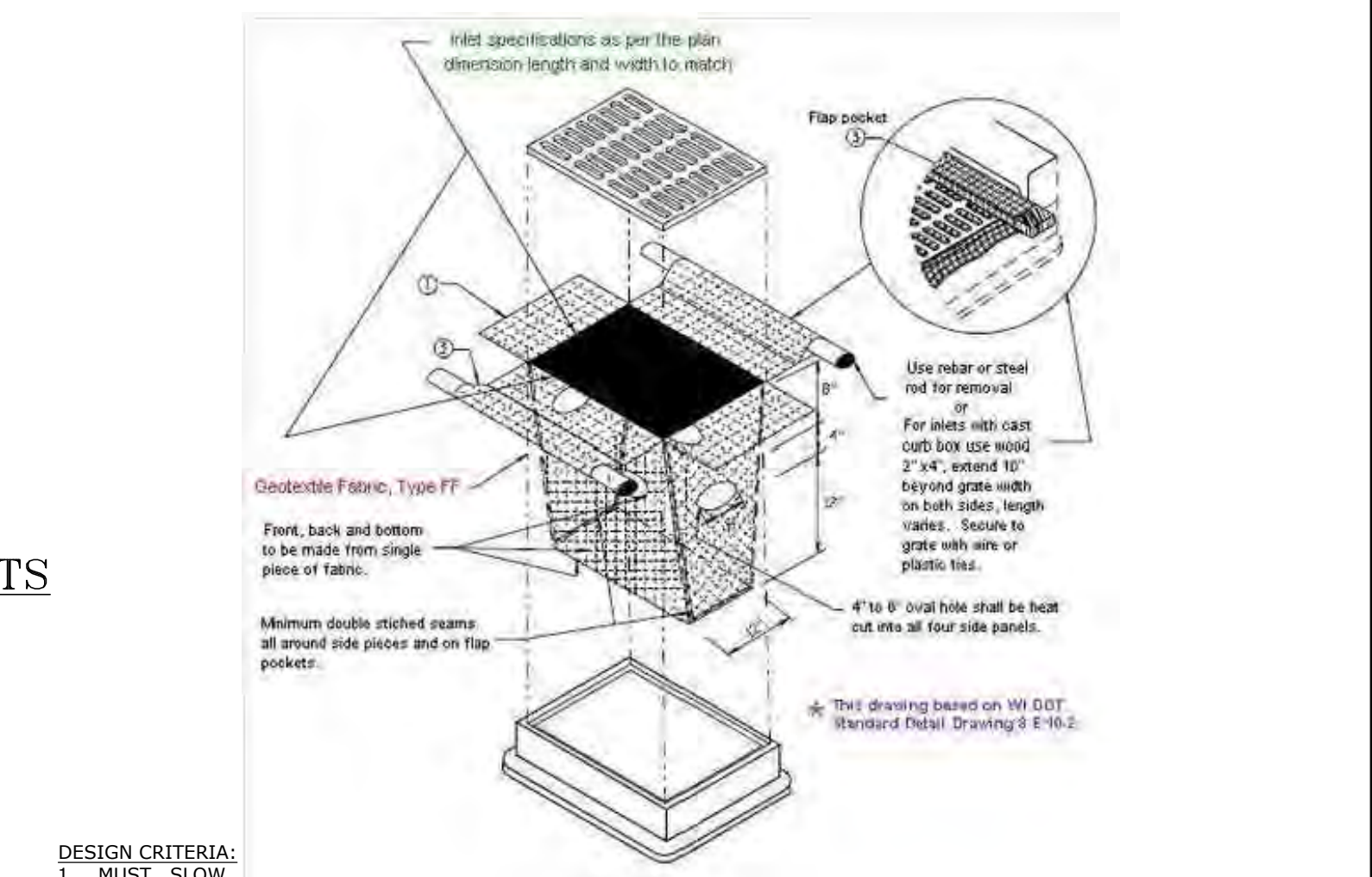
**DESIGN CRITERIA:**

- TYPE II FLOATING TURBIDITY CURTAIN IS PROPOSED FOR THE PROJECT AS IT IS BEST USED TO CONTAIN SILT AND TURBIDITY IN MOVING WATER APPLICATIONS. THE OYSTER CREEK AT THE DISCHARGE POINT IS TIDALLY INFLUENCED SO IT IS PRESUMED THE WATER WILL BE MOVING DAILY THROUGHOUT THE CONSTRUCTION ACTIVITIES.
- BARRIER MATERIAL WILL BE A POLYETHYLENE PLASTIC SHEET, 10 MIL, OR SUITABLE ALTERNATE TO FIT EXISTING CONDITIONS.
- WEIGHTS WILL BE AT 10' INTERVALS ALONG THE ENTIRE LENGTH. THEY SHALL BE 5 POUNDS AND EXTEND 12" BELOW THE BOTTOM OF THE MATERIAL.
- FLOATS WILL BE AT 5' INTERVALS; THERE WILL BE TWO FLOATS AT EACH LOCATION, ONE ON EITHER SIDE OF THE MATERIAL.
- ROPE WILL BE 1/2" NYLON OR MANILA.

**PLACEMENT:**

- BARRIER WILL BE SET ON A 50' RADIUS FROM THE POINT OF DISCHARGE WHEN DISCHARGING THROUGH A CONDUIT. IF THE RADIUS CANNOT BE ACCOMMODATED, AS IS THE CASE FOR THIS PROJECT, BARRIER SHALL BE PLACED IN ACCORDANCE WITH NOTE 3 BELOW
- BARRIER WILL EXTEND PARALLEL TO THE CHANNEL BANK(S) FOR THE FULL LENGTH OF THE WORK AREA FOR SHORELINE DISTURBANCES.
- BARRIER WILL EXTEND ACROSS THE ENTIRE CHANNEL WHEN WORK IS PERFORMED WITHIN THE CHANNEL.

**TYPE II FLOATING TURBIDITY BARRIER**  
N.T.S.



**DESIGN CRITERIA:**

- MUST SLOW PARTICLES A CHANCE TO SETTLE, AND PROVIDE AN AREA TO RETAIN THE PARTICLES THAT HAVE SETTLED.
- IN ALL CASES, INLET PROTECTION SHOULD NOT COMPLETELY CLOSE OFF THE INLET. PROVISION MUST BE MADE TO ALLOW STORMWATER TO OVERFLOW OR BYPASS FILTER.
- THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

**MAINTENANCE NOTE:**

- INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE FILTER/BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARD THE INLET HAS BEEN STABILIZED.

**INLET FILTER PROTECTION**  
N.T.S.

PROJECT AREA	DISTURBANCE AREA
SUBSTATION AREA	12.57 ACRES
SUBSTATION LAYDOWN AREA	0.52 ACRES
CABLE ROUTE CONSTRUCTION (WEST OF OYSTER CREEK)	3.85 ACRES
CABLE ROUTE CONSTRUCTION (EAST OF OYSTER CREEK)	22.39 ACRES
ISLAND BEACH STATE PARK	6.84 ACRES
<b>TOTAL PROJECT</b>	<b>46.17 ACRES</b>

no. | date | by | ckd | description

0	07/20/2022	AG	JSKRLH	REVISED FOR PERMIT REVIEW AND APPROVAL.
1	11/14/2022	AG	JSKRLH	REVISED TO ADDRESS NJDEP DEFICIENCY COMMENTS
2	1/05/2023	AG	JSKRLH	UPDATED ROUTE AND STATION AND RE- ISSUED FOR PERMIT REVIEW AND APPROVALS
3	4/11/2023	AG	JSKRLH	REVISED TO ADDRESS NJDEP COMMENTS. ISSUED FOR PERMITS
4	6/1/2023	AG	JSKRLH	REVISED TO ADDRESS MINOR COMMENTS. ISSUED FOR PERMITS

FOR PERMITTING APPROVAL

**Ocean Wind 1**  
An Ørsted & PSEG project

**N.J. ENGINEERING CERTIFICATE OF AUTHORIZATION No. 24GA28118200**  
**E 2 PROJECT MANAGEMENT LLC**  
87 HIBERNIA AVENUE  
ROCKAWAY, N.J. 07866  
PHONE: (973) 299-5200  
FAX: (973) 299-5059  
www.E2PM.com  
**E2PM**

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

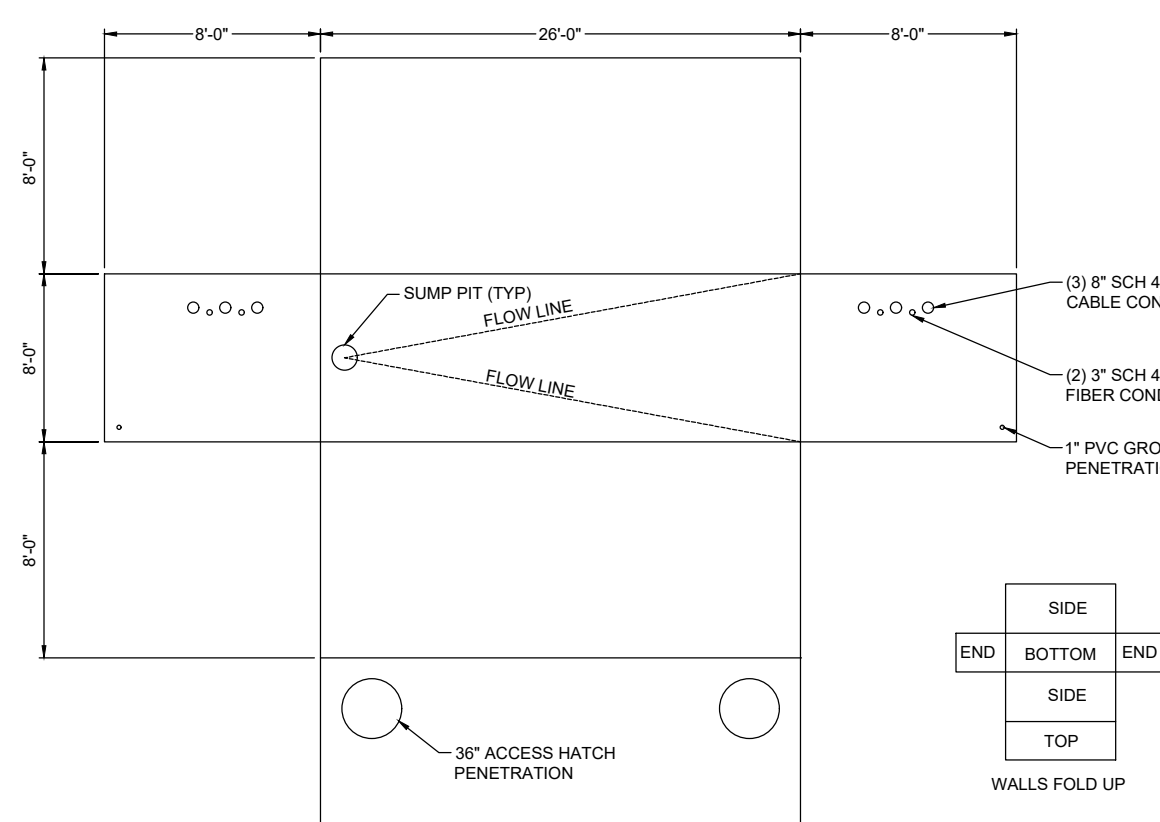
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**OCEAN WIND OFFSHORE WIND PROJECT**  
OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

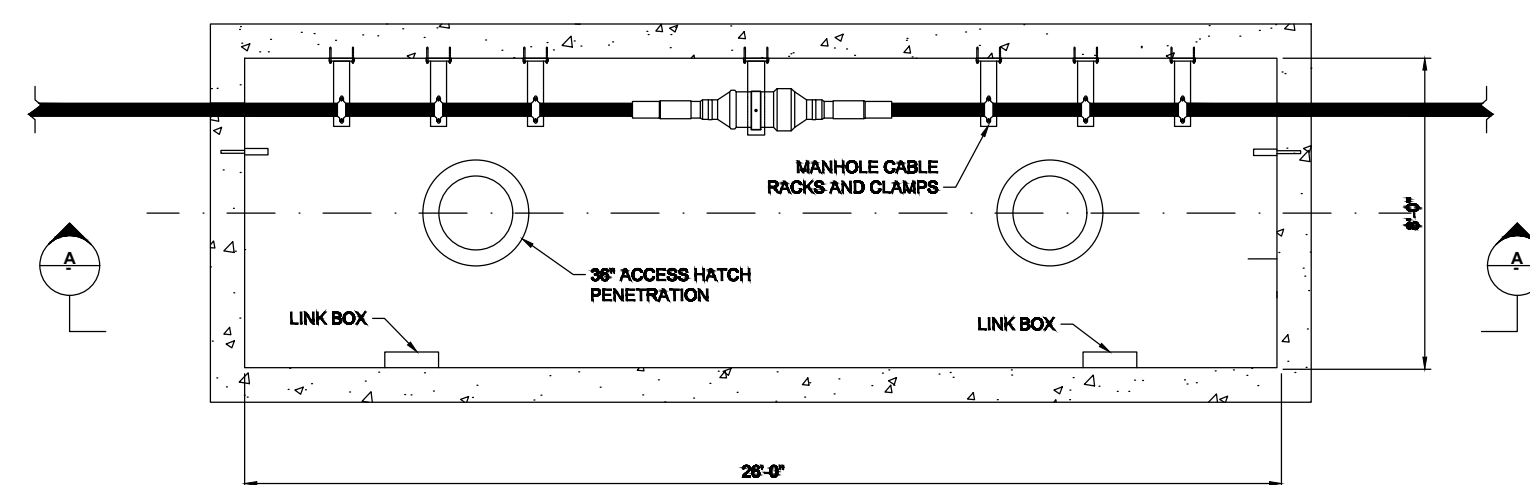
project	P-21-03-26	rev.	
drawing	<b>OL-OC019</b>		<b>4</b>
sheet	19	of 21	sheets

DERECO # 07748229

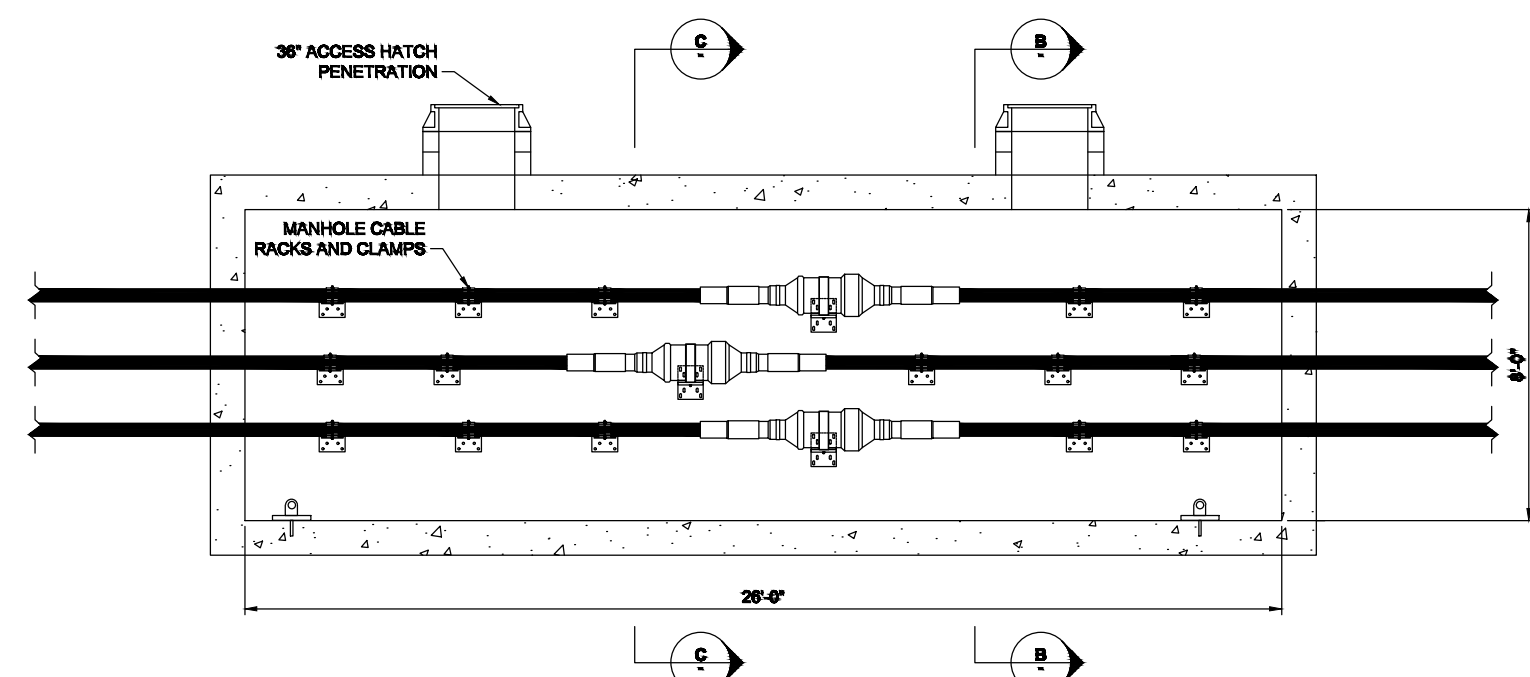




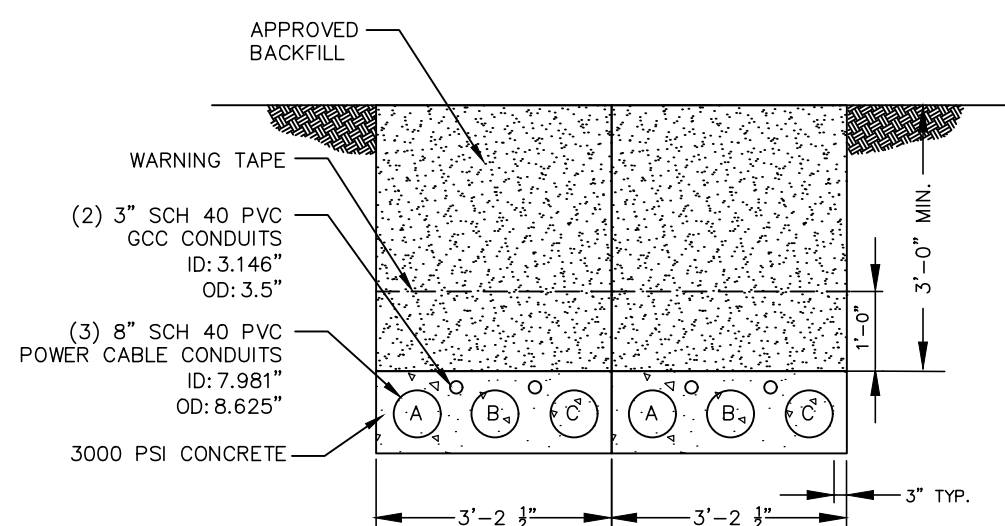
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DEVELOPMENT PLAN**  
N.T.S.



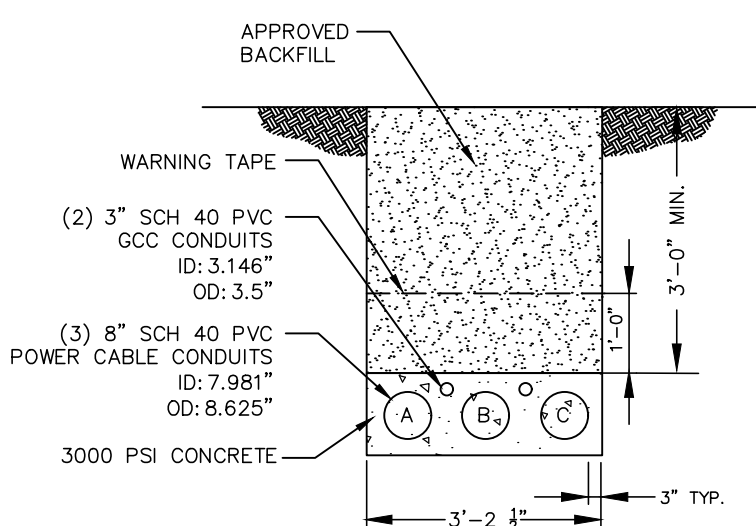
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PLAN VIEW**  
N.T.S.



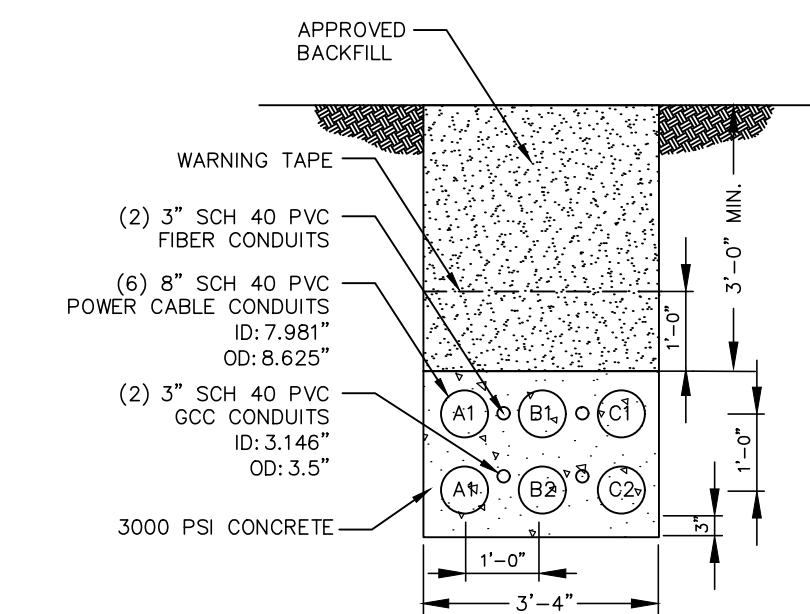
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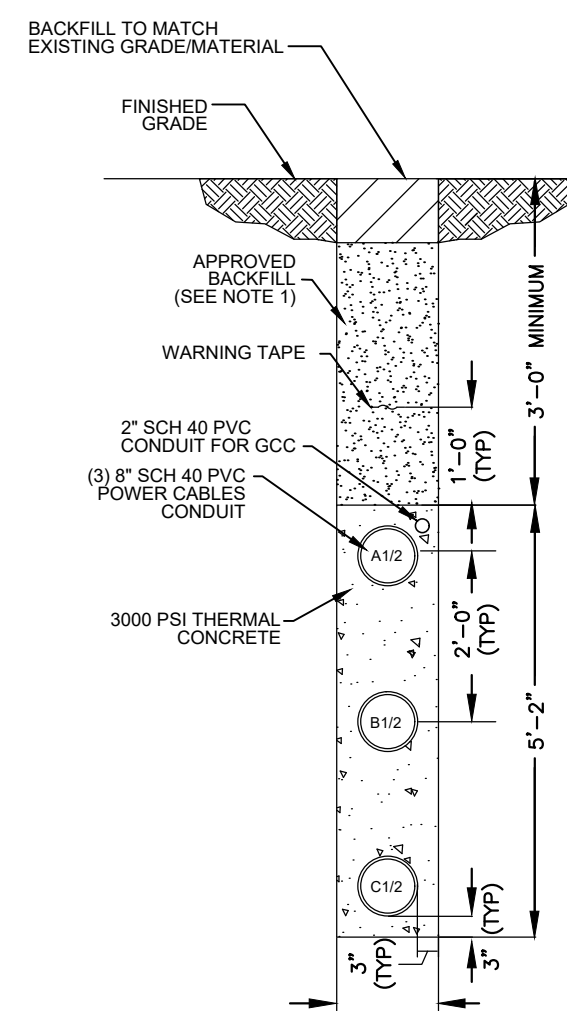
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N.T.S.



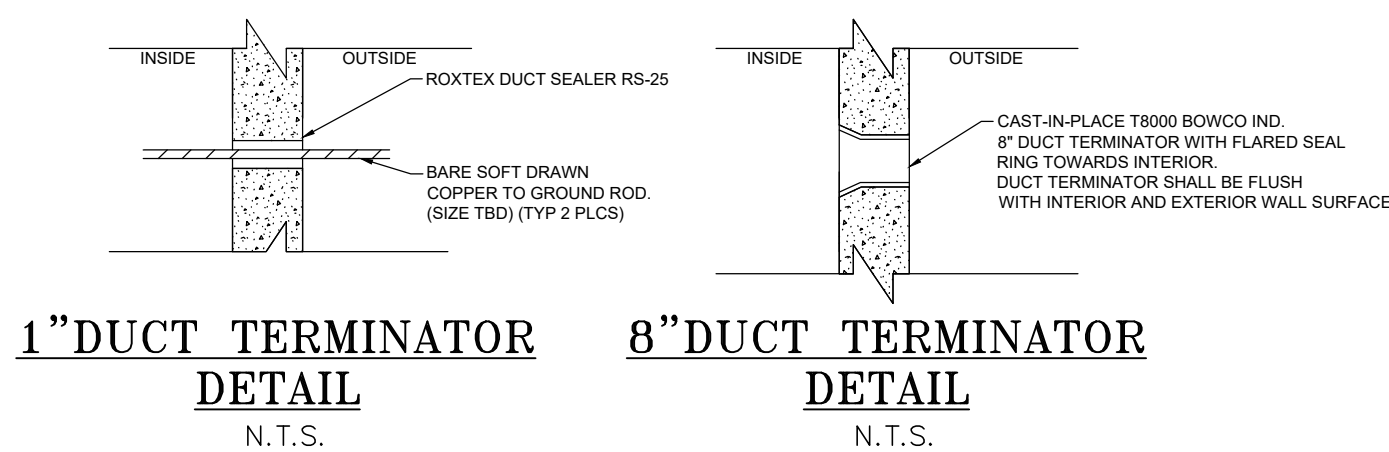
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**2X3 CONCRETE ENCASED  
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N.T.S.

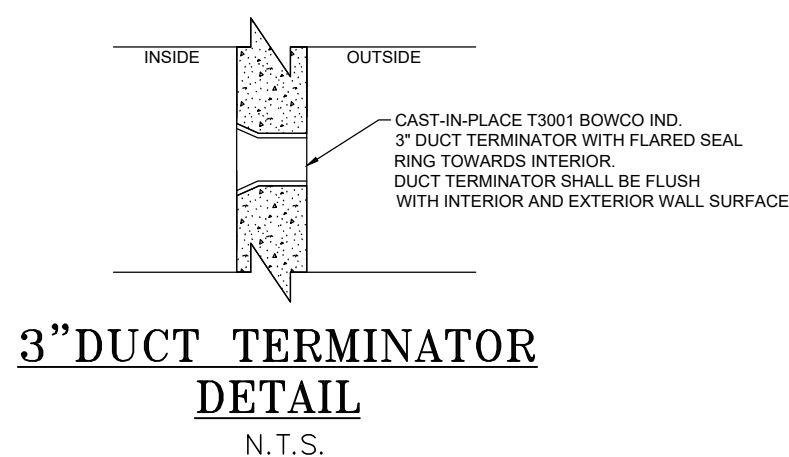


**1X1 DUCT BANK  
WITH 2" CONDUIT**  
N.T.S.

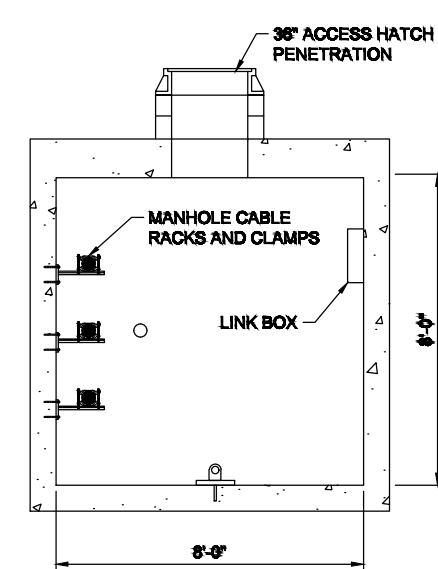


**1" DUCT TERMINATOR  
DETAIL**  
N.T.S.

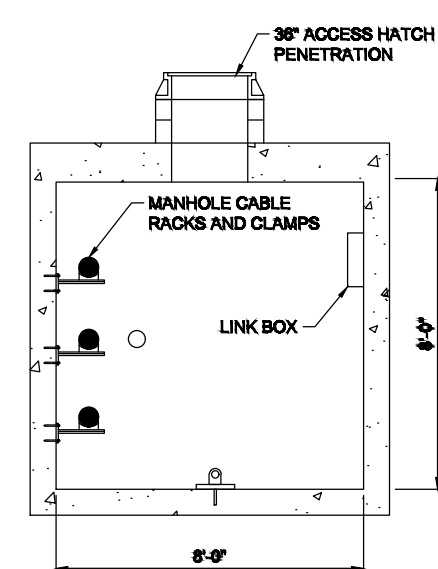
**8" DUCT TERMINATOR  
DETAIL**  
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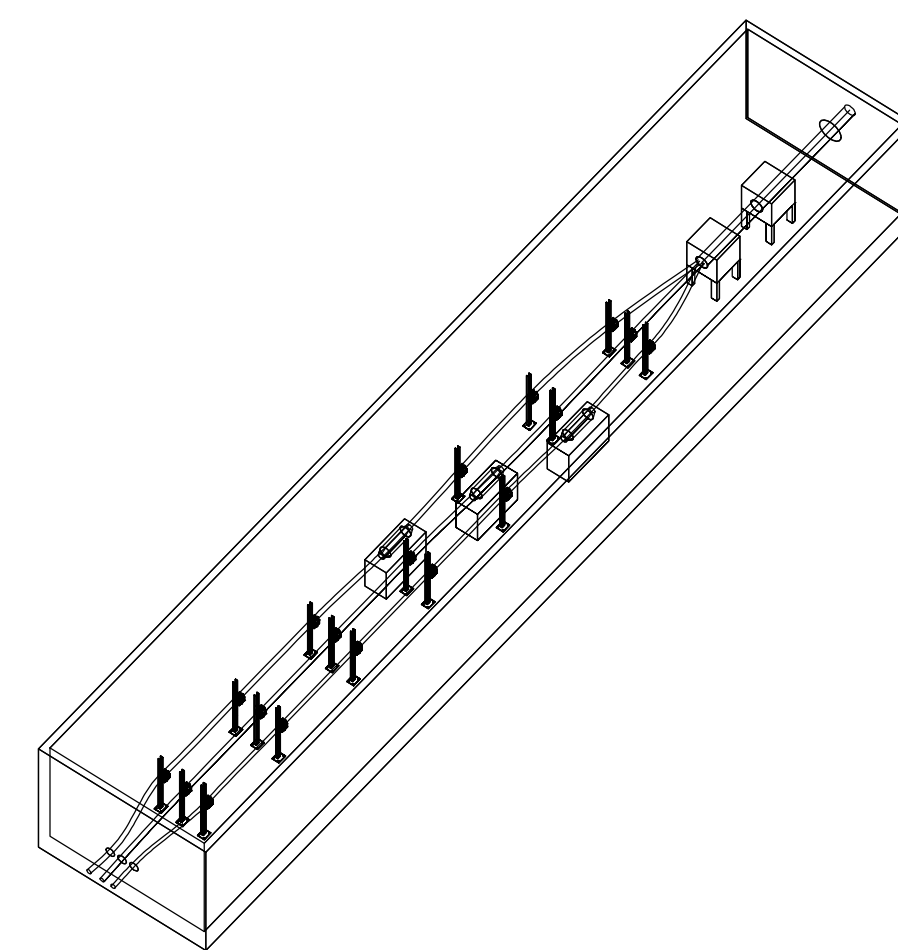
**3" DUCT TERMINATOR  
DETAIL**  
N.T.S.



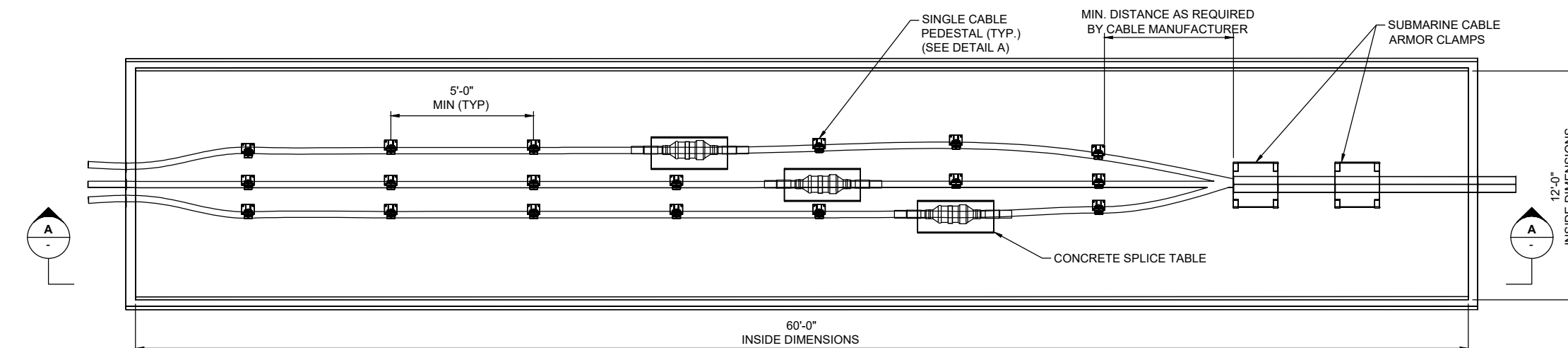
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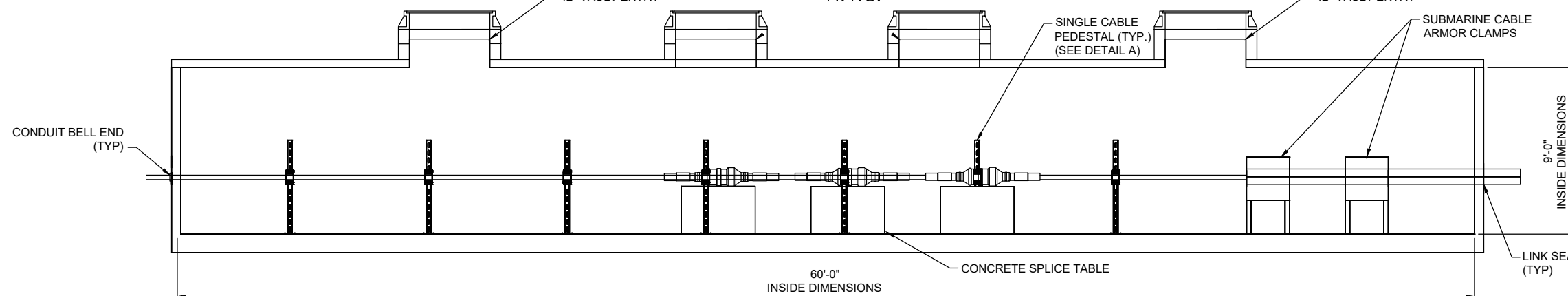
**SECTION C-C'**  
N.T.S.



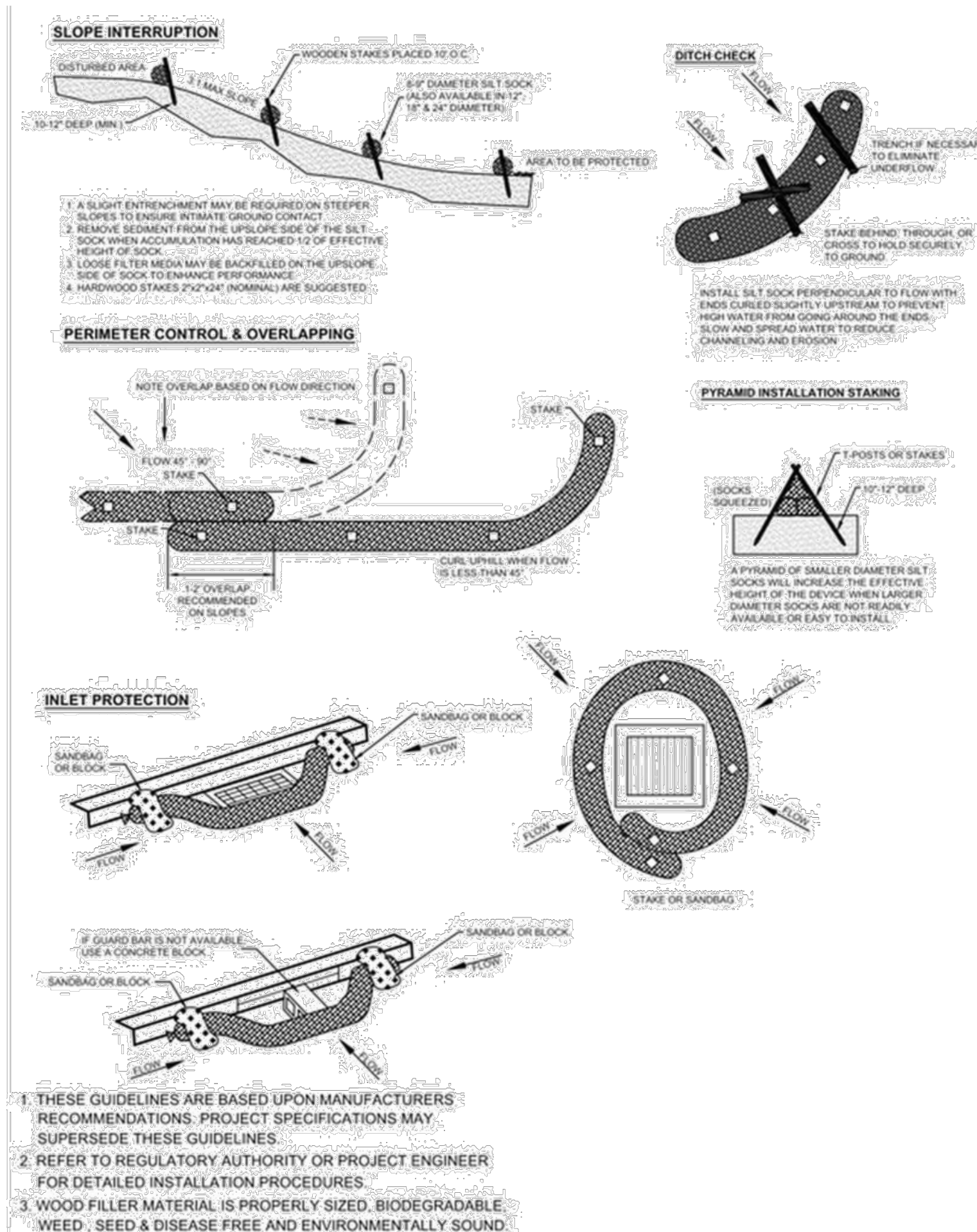
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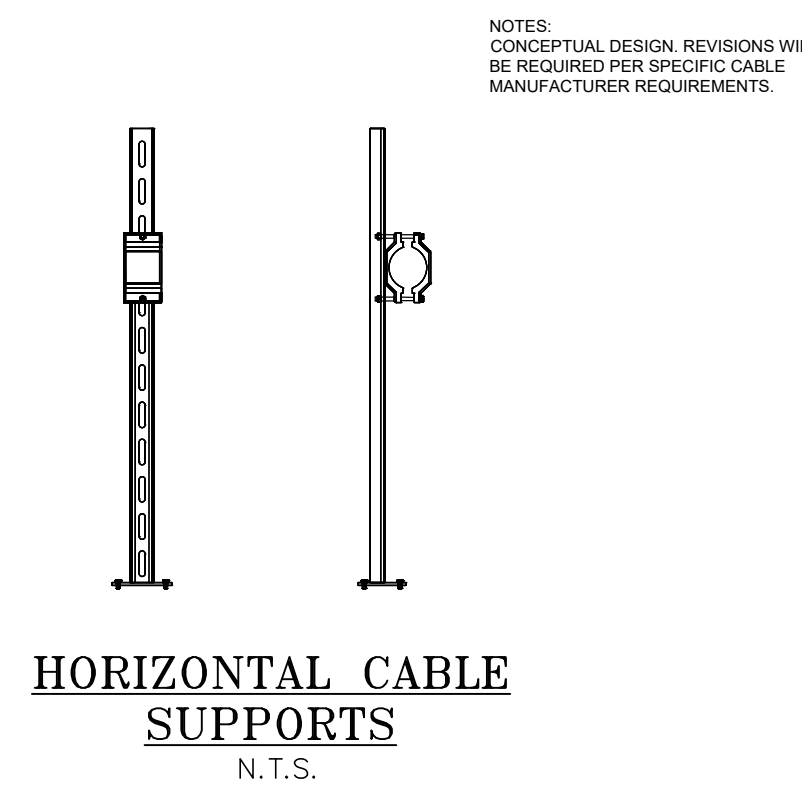
**TRANSITION VAULT  
PLAN VIEW**  
N.T.S.



**TRANSITION VAULT  
SECTION**  
N.T.S.



**SILT SOCK**  
N.T.S.



**HORIZONTAL CABLE  
SUPPORTS**  
N.T.S.

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**FOR PERMITTING APPROVAL**

**Ocean Wind 1**  
An Ørsted & PSEG project

**N.J. ENGINEERING CERTIFICATE OF  
AUTHORIZATION No. 24GA28118200**

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

**DETAILS SHEET 1  
TYPICAL DETAILS**

**OCEAN WIND OFFSHORE WIND PROJECT**

**OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875**

project  
P-21-03-26

drawing  
**OL-OC020** — rev. **4**

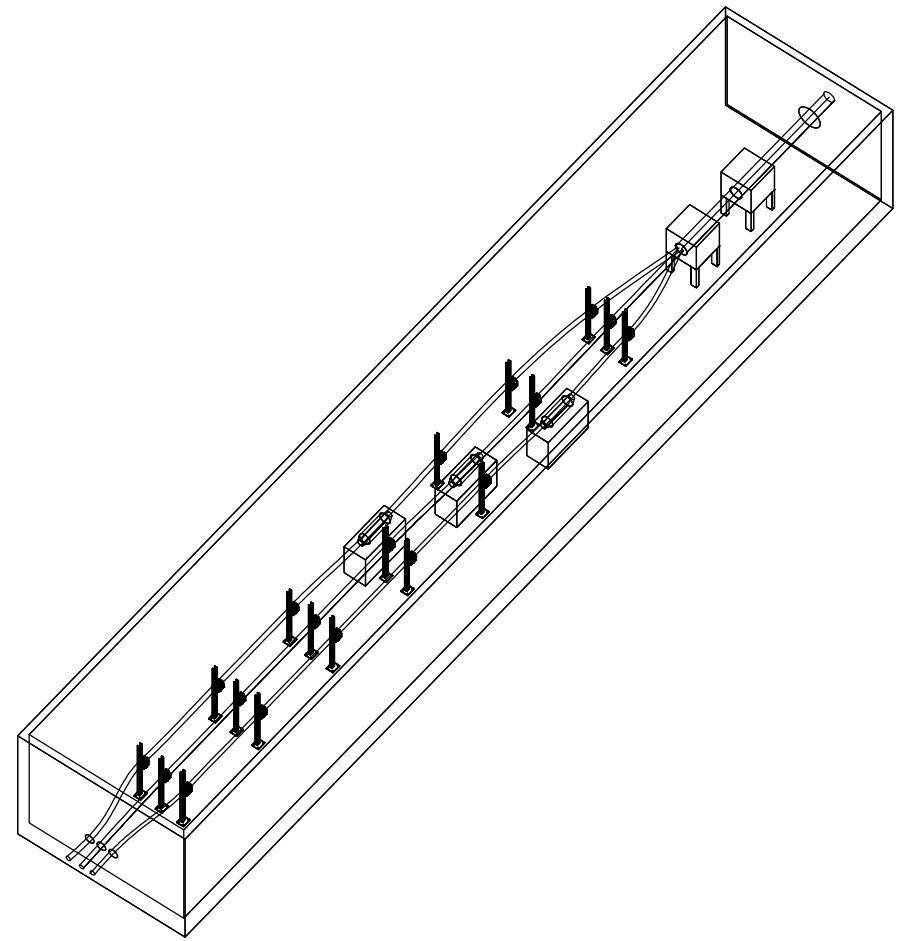
sheet 20 of 22 sheets  
DERECO # 07748229

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

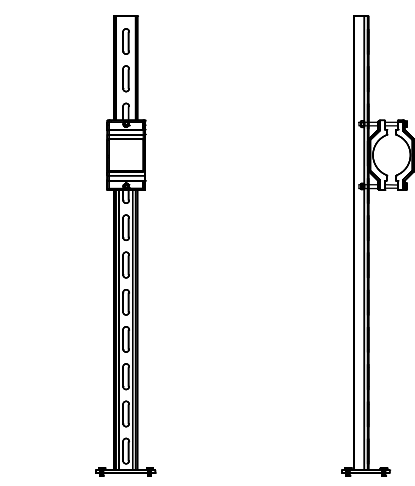
**KATHERINE L. HERING**  
No. GE42269  
LICENSED PROFESSIONAL ENGINEER

KATHERINE L. HERING, P.E. N.J. No. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER

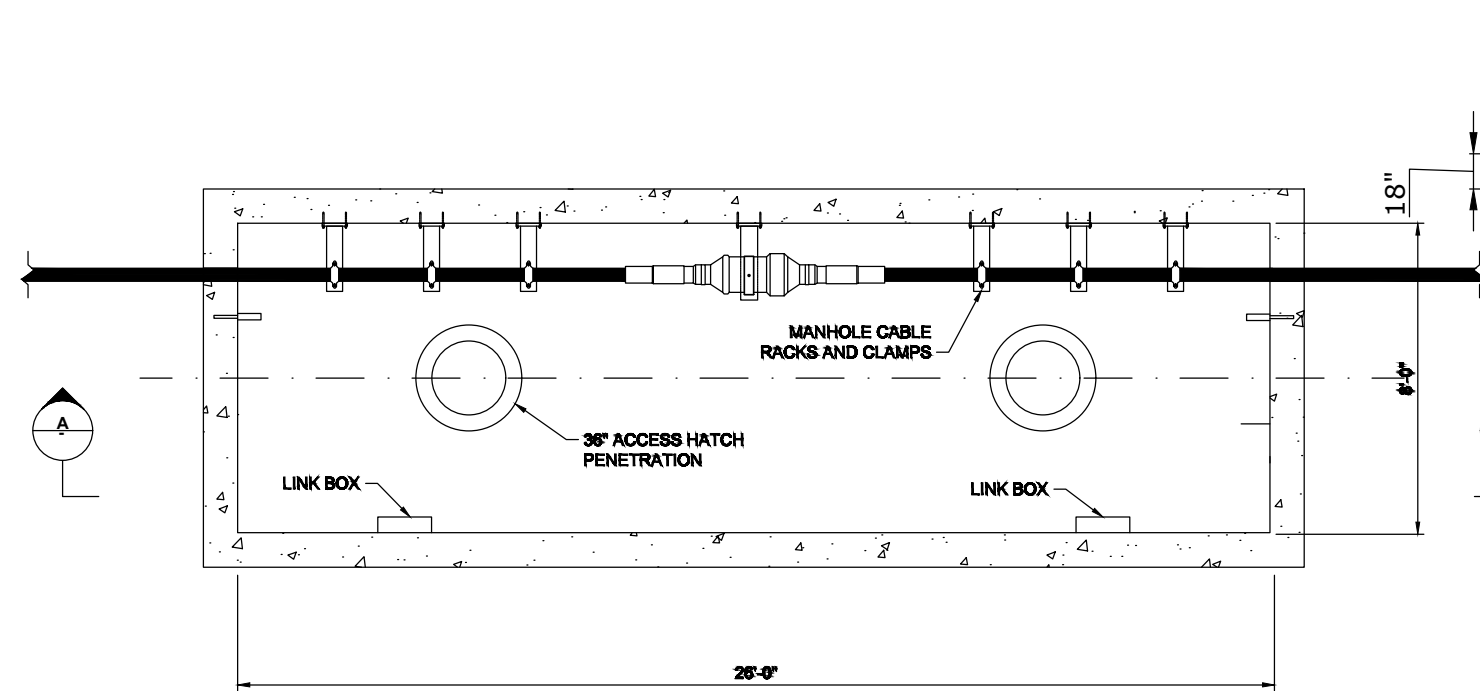




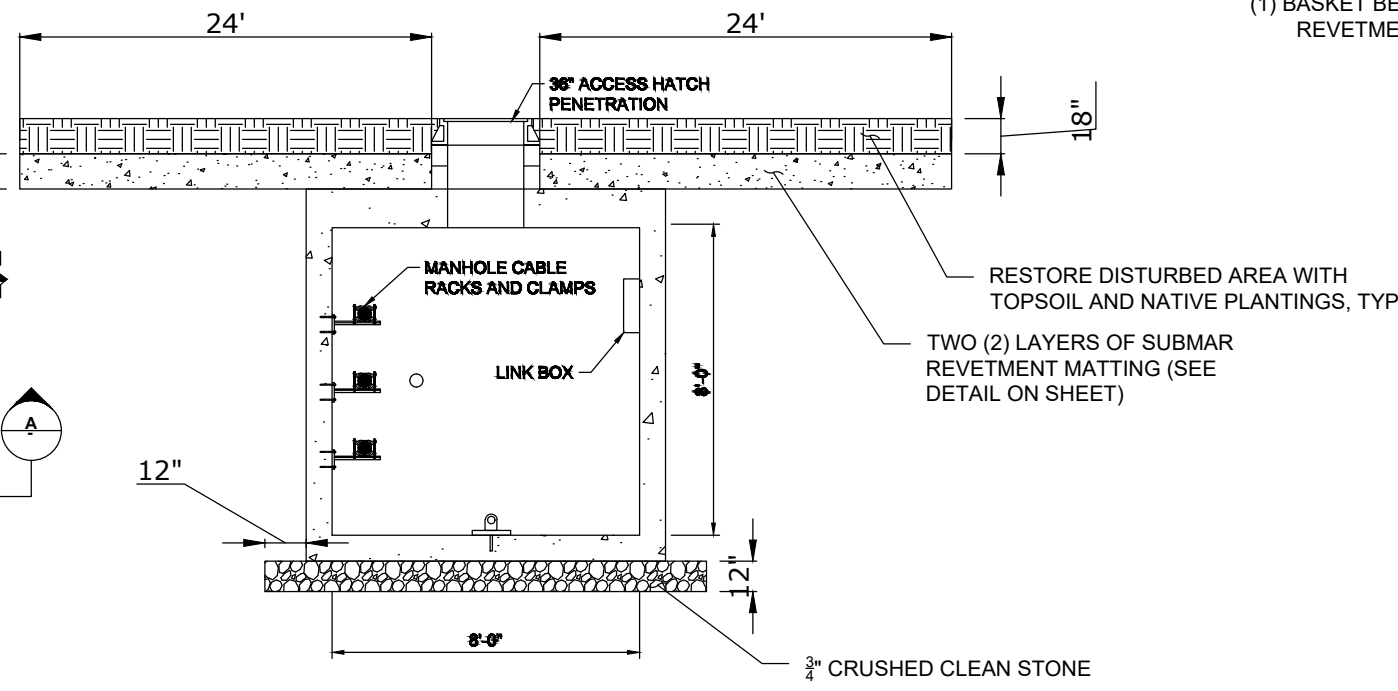
TRANSITION VAULT  
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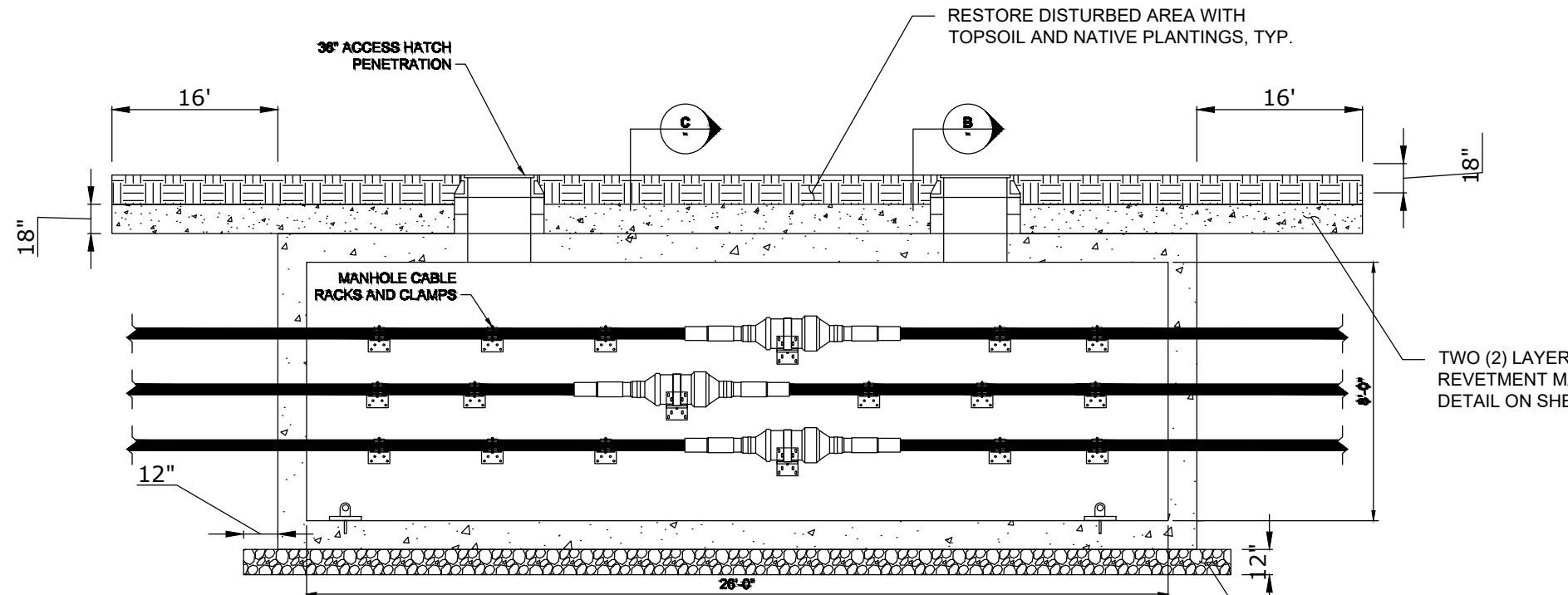
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SUPPORTS  
N.T.S.



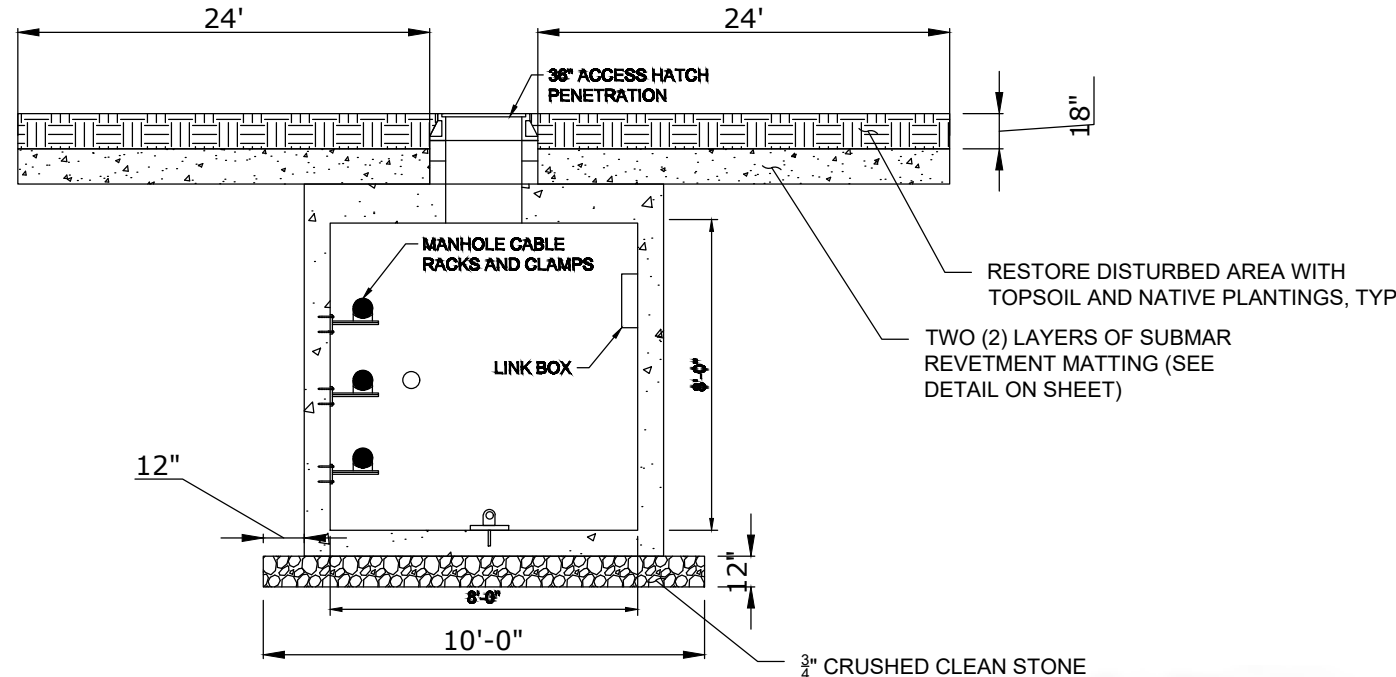
SPLICE VAULT RESTORATION DETAIL  
PLAN VIEW  
N.T.S.



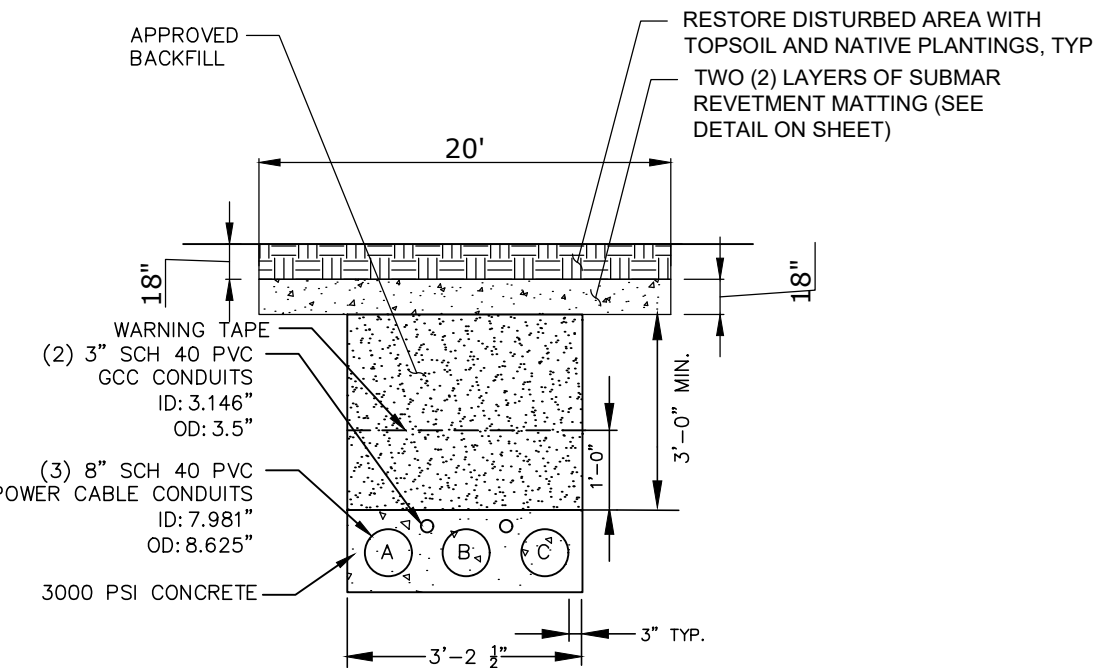
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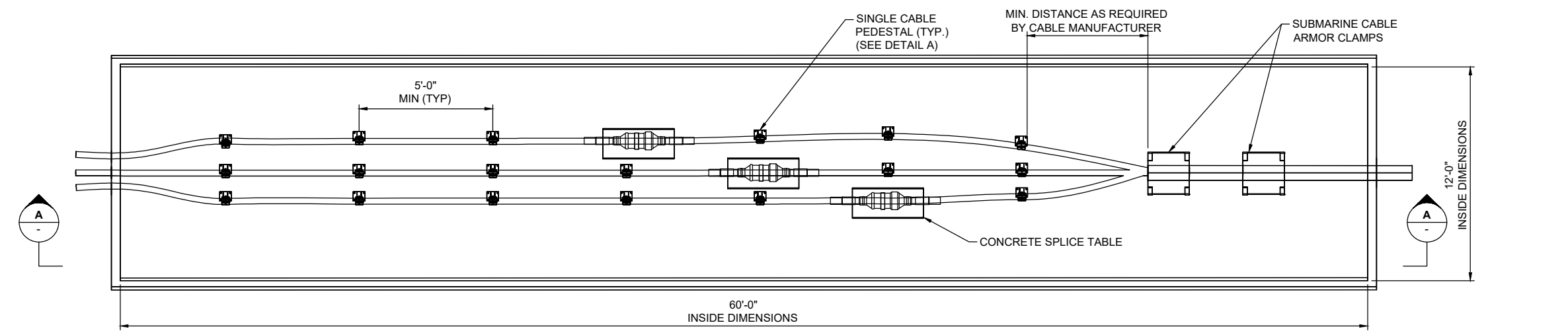
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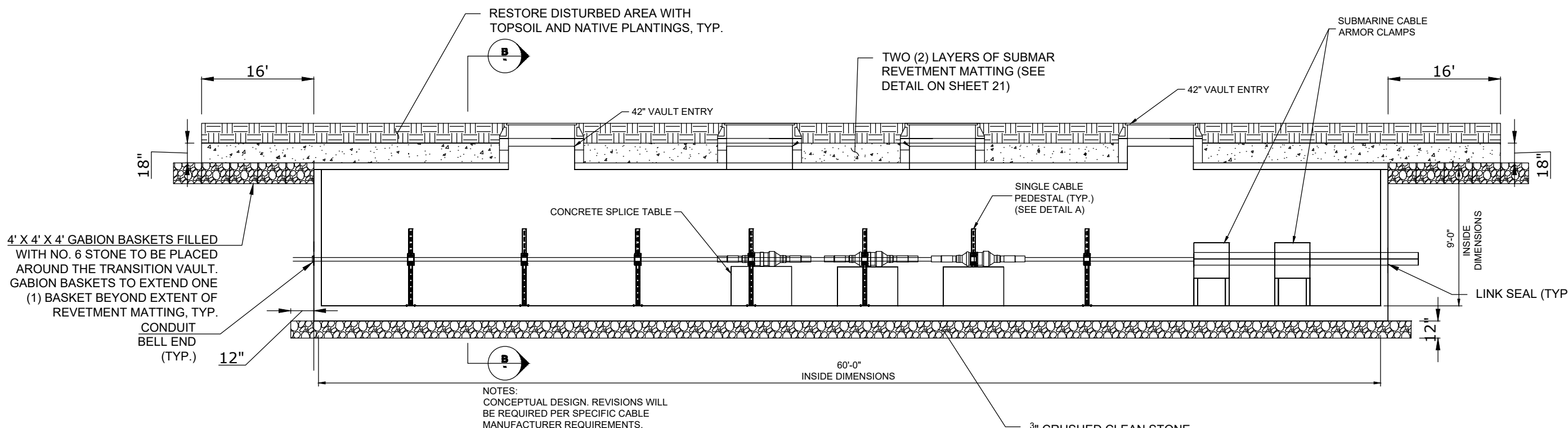
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N.T.S.



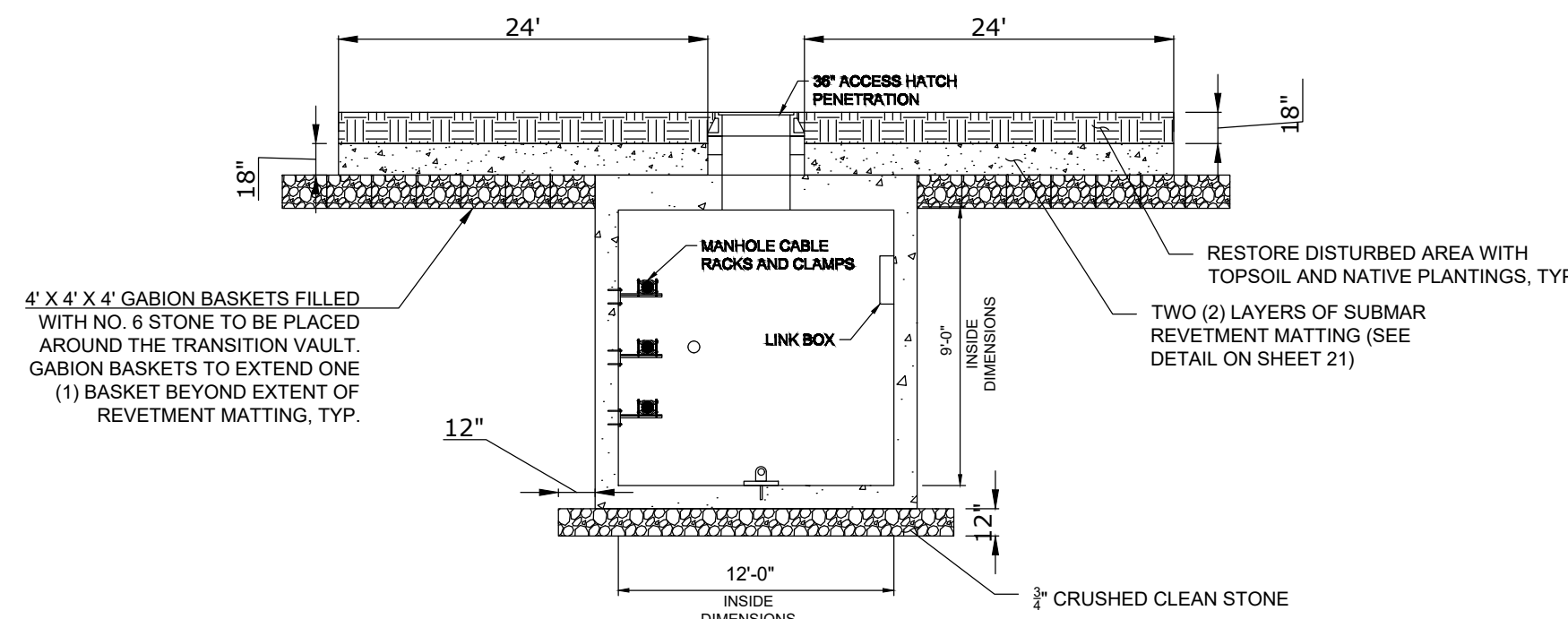
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RESTORATION DETAIL  
N.T.S.



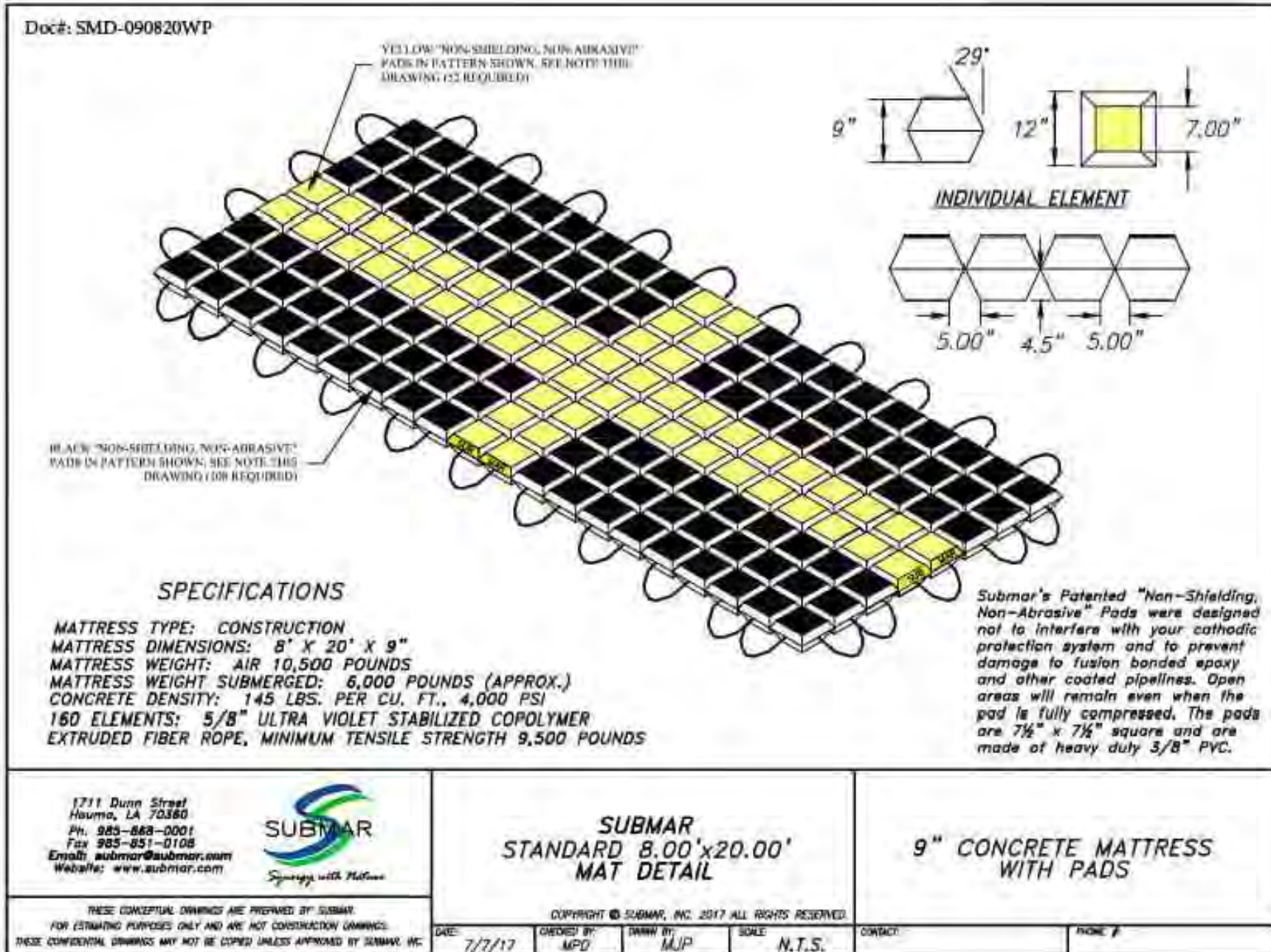
TJB SCOUR PROTECTION DETAIL TRANSITION VAULT  
PLAN VIEW  
N.T.S.



TJB SCOUR PROTECTION DETAIL TRANSITION VAULT  
SECTION A-A'



TJB SCOUR PROTECTION DETAIL TRANSITION VAULT  
SECTION B-B'  
N.T.S.



SUBMAR REVETMENT MATTING DETAIL  
N.T.S.

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date	7/20/22	detailed	APG
designed	JMS	checked	KLH/JMS

**DETAILS SHEET 2**  
**HDD HARDSTAND**  
**AREA & SCOUR**  
**PROTECTION**

OCEAN WIND OFFSHORE WIND PROJECT

OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

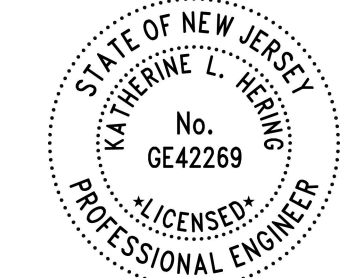
project  
P-21-03-26

drawing  
OL-OC021-

sheet 21 of 22 sheets

DERECO # 07748229

I CERTIFY THAT THESE PLANS HAVE BEEN  
PREPARED UNDER MY SUPERVISION



KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER



DRAWING REFERENCES

MAP ENTITLED "ALTANSPS LAND TITLE SURVEY, BLOCK 1001 LOT 4.05" PREPARED BY PSEG SERVICES CORPORATION SURVEYS & MAPPING, 80 PARK PLAZA T20, NEWARK, NJ, DATED FEBRUARY 25, 2022."

MAP ENTITLED " OFFSHORE WIND OYSTER CREEK- FARMLAND ROUTE EXISTING CONDITIONS" AS PREPARED BY PSEG SERVICES CORPORATION SURVEYS & MAPPING, 80 PARK PLAZA T20, NEWARK, NJ, DATED SEPTEMBER 30, 2021 AND REVISED THROUGH JANUARY 7, 2022."

MAP ENTITLED "ORSTED AND PUBLIC SERVICE ELECTRIC & GAS CO. OCEAN WIND PROJECT, ISLAND BEACH STATE PARK GREEN ACRES SURVEY", AS PREPARED BY FRALINGER ENGINEERING, 629 SHILOH PIKE, BRIDGETON, NJ 08302, DATED NOVEMBER 3, 2021.

SUPERSTORM SANDY APPROXIMATE OVERWASH AREA ARE DIGITIZED OVERWASH AREAS ARE GEO-REFERENCED BY EZPM JANUARY 2021 FROM GOOGLE EARTH POST-SUPERSTORM SANDY AERIAL IMAGERY FROM NOVEMBER 2012.

AERIAL TOPOGRAPHY PREPARED BY ROBINSON AERIAL SURVEYS INC. 1 EDGEVIEW DRIVE, HACKETTSTOWN, N.J. 07840 FROM 5.0 CM GROUND SAMPLING DISTANCE IMAGERY CAPTURED ON JUNE 18, 2021. IMAGERY WAS CAPTURED ON OCTOBER 2021 AT A SCALE OF 1:500 (1"=50') WITH A 1 FOOT PIXEL RESOLUTION, PROVIDED BY NEARMAP.

WETLANDS SHOWN HEREON WERE DELINEATED BY HDR JUNE 2019, MAY 2020 AND LOCATED BY NJ LICENSED LAND SURVEYOR GEOD CORPORATION, WETLAND AND WATERCOURSE EXTENTS CONFIRMED BY NJDEP WITH SITE VERIFICATION NOVEMBER 2021. ADDITIONAL WETLANDS WITHIN PROPOSED ONSHORE CONSTRUCTION AREA CONFIRMED IN VALID NJDEP LETTER ON INTERPRETATION ISSUED AUGUST 15, 2017 (FILE NO. 1512-17-0013.1). SHAPEFILES PROVIDED BY HDR JANUARY 10, 2022 & APRIL 11, 2022.

1970 MAPPED COASTAL WETLANDS WERE DIGITIZED BY HDR NOVEMBER 2021 BASED ON THE 1970 WETLANDS BASEMAPS (BLACK AND WHITE) THAT HAVE BEEN SCANNED AND GEO-REFERENCED BY THE NJDEP USING THE NJDEP TIDELANDS GRID VECTOR DATA LAYER AND MADE AVAILABLE THROUGH THE NJ OFFICE OF INFORMATION TECHNOLOGY, OFFICE OF GIS (NJOGIS).

SHELLFISH HABITAT DEPICTED HEREIN IS BASED UPON NJDEP MAPPING OF MODERATE AND HIGH DENSITY/COMMERCIAL VALUE AREAS OF BARNEGAT BAY AVAILABLE THROUGH THE NJDEP LAND RESOURCES PROTECTION WEBSITE. SOURCES INCLUDE DISTRIBUTION OF SHELLFISH RESOURCES IN RELATION TO THE NEW JERSEY INTRACOASTAL WATERWAY (U.S. DEPARTMENT OF THE INTERIOR, 1963) AND/OR "INVENTORY OF NEW JERSEY'S ESTUARINE SHELLFISH RESOURCES" (DIVISION OF FISH, GAME AND WILDLIFE, BUREAU OF SHELLFISHERIES, 1983-PRESENT). DATA DIGITIZED IN GIS BY HDR, 2019.

BEACHES AND DUNES DEPICTED HEREIN ARE SOURCED FROM THE NJDEP LAND USE/LAND COVER 2015 DATASET PUBLISHED IN 2019 AND DOWNLOADED FROM BY HDR IN NOVEMBER 2021 FROM THE NJDEP BUREAU OF GIS.

TIDELANDS CLAIM AREAS DEPICTED HEREIN ARE SOURCED FROM THE NJDEP BUREAU OF TIDELANDS MANAGEMENT AND DOWNLOADED FROM THE NJDEP BUREAU OF GIS BY HDR IN NOVEMBER 2021. EXISTING TIDELANDS INSTRUMENTS WERE OBTAINED FROM THE BUREAU OF TIDELANDS FROM CONVEYANCE MAPS AND DIGITIZED IN GIS VIA GEOREFERENCING BY PSEG 2021.

WOODY VEGETATION DATASET PROVIDED BY HDR IN DECEMBER 2022.

FLOOD HAZARD AREA AND FLOODWAY LIMITS WERE OBTAINED FROM THE BELOW FEMA MAP REFERENCES

FEMA REFERENCES

Location	Map			NJDEP Delineated Map
	Type	Number	Map Date	
Lacey Township, Ocean County, NJ; Starting at Block 1001 4.05 to the NJ Route 9 crossing over the Oyster Creek	Preliminary Map	34029C0412G	3/28/2014	None
Lacey Township, Ocean County, NJ; Starting at NJ Route 9 crossing over the Oyster Creek to the eastern end of Block 100, Lot 1.05	Preliminary Map	34029C0404G	3/28/2014	None
Lacey Township, Ocean County, NJ; Starting at the eastern end of Block 100, Lot 1.05 to the eastern end of Block 100, Lot 1.06.	Preliminary Map	34029C0408G	3/28/2014	None
Lacey Township, Ocean County, NJ; Starting at the eastern end of Block 100, Lot 1.06 to the Barnegat Bay	Preliminary Map	34029C0416G	1/30/2015	None

PROPOSED LIMITS OF DISTURBANCE FOR HDD ACCESS AND LAYDOWN AREAS PROVIDED BY HDR.

PROPOSED ALIGNMENT AND PERMANENT AND TEMPORARY EASEMENTS SHOWN PROVIDED BY OFFSHORE WIND LLC AND AMENDED WITH ELECTRONIC FILE PREPARED BY BURNS & MCDONNELL FOR LANOKA EXPORT ROUTE, REVISED DECEMBER 09, 2022.

PROPOSED STATION LAYOUT AND LAYDOWN AREAS PROVIDED IN PLAN ENTITLED "OCEAN WIND OFFSHORE WIND PROJECT ONSHORE SUBSTATION OYSTER CREEK LOCATION, LACY TWP. NJ 08758, 275/230KV SUBSTATION GENERAL ARRAGEMENT PLAN AS PREPARED BY BURNS & MCDONNELL 11 N. PARK PLACE, SUITE 330, MORRISTOWN, NJ 07960, DATED APRIL 18, 2022 REVISED THROUGH NOVEMBER 04, 2022.

PLAN UPDATED WITH ELECTRONIC FILE FOR LANOKA INTERCONNECTION ROUTE, REVISED NOVEMBER 15, 2022, AS PREPARED BY BURNS & MCDONNELL.

HDD PLAN AND PROFILE UPDATED WITH ELECTRONIC FILE FOR LANOKA ROUTE 9 HDD PROFILES, REVISED DECEMBER 09, 2022.

ACCORDING TO NJDEP'S SURFACE QUALITY STANDARDS (N.J.A.C. 7:9B, ADOPTED AMENDMENTS N.J.A.C. 7:9B-1.15), THE OYSTER CREEK AND ITS TRIBUTARIES ARE CLASSIFIED AS FW2-NT/SE1. THEY ARE NOT UTILIZED FOR TROUT PRODUCTION OR MAINTENANCE. AS SUCH, THE OYSTER CREEK HAS A 50-FT-WIDE RIPARIAN ZONE.

ACCORDING TO NJDEP'S SURFACE QUALITY STANDARDS (N.J.A.C. 7:9B, ADOPTED AMENDMENTS N.J.A.C. 7:9B-1.15), THE BARNEGAT BAY IS CLASSIFIED AS FW2-NT/SE1. IT IS NOT UTILIZED FOR TROUT PRODUCTION OR MAINTENANCE. AS SUCH, THE BARNEGAT BAY HAS A 50-FT-WIDE RIPARIAN ZONE.

ISLAND BEACH STATE PARK IS A BARRIER ISLAND. NO BARRIER ISLANDS CONTAIN RIPARIAN BUFFERS PER N.J.A.C. 7:13-2.3(c)1ii. AS SUCH NO TOP OF BANK OR RIPARIAN ZONE IS SHOWN ON ISLAND BEACH STATE PARK.

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designed	JMS	checked	KLH/JMS

REFERENCES

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OYSTER CREEK LOCATION  
LACEY TWP, NJ 0875

project  
P-21-03-26

drawing  
OL-OC022

rev.  
4

sheet 22 of 22 sheets

DERECO # 07748229

I CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION

KATHERINE L. HERING, P.E. N.J. NO. 24GE04226900  
LICENSED PROFESSIONAL ENGINEER