

PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: New Jersey Division of Property Management and Construction – Proposed Fishing Access Improvements along a portion of the Point Pleasant Canal Section of the New Jersey Intracoastal Waterway Federal Civil Works Navigation Project at the Point Pleasant Wildlife Management Area, Point Pleasant, Ocean County, New Jersey.

PUBLIC NOTICE IDENTIFICATION NUMBER: NAP-2021-00192-97

PUBLIC NOTICE COMMENT PERIOD:

Begins: **10 June 2021**

Expires: **10 July 2021**

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

1. REQUESTER: In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), the New Jersey Division of Property Management and Construction (NJDPMC) has requested permission to construct fishing access improvements along the federally-owned Point Pleasant Canal right-of-way of the Point Pleasant Canal Section of the New Jersey Intracoastal Waterway Federal Civil Works Navigation Project at the Point Pleasant Wildlife Management Area, Point Pleasant, Ocean County, New Jersey.

2. LOCATION: The proposed project is located in the Point Pleasant Canal right-of-way along the western bank of the of the Point Pleasant Canal Section of the New Jersey Intracoastal Waterway Federal Civil Works Navigation Project at the Point Pleasant Wildlife Management Area, Point Pleasant, Ocean County, New Jersey; approximate project coordinates: Latitude: 40.070045, Longitude: -74.058719.

3. LOCATION MAP(S)/DRAWING(S): See attached Drawings: Plan Sheets 1 through 16.

4. REQUESTER'S PROPOSED ACTION: Construction of fishing access improvements in the Point Pleasant Canal right-of-way, to include: one (1) new 10.0-foot wide by 200.0-foot long pile-supported fixed timber pier, parallel with the canal; one (1) new 16.0-foot wide by 42.0-foot long pile supported fixed timber pier, parallel with the canal; bulkhead returns; approximately 200.0-square feet of rip-rap stone revetment at the lagoon entrance; and perimeter fencing; as detailed on the enclosed Plan Sheets 1 through 16.

5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

- A. *Impair the Usefulness of the Project Determination.* The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
- B. *Injurious to the Public Interest Determination.* Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to

the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. SOLICITATION OF COMMENTS: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

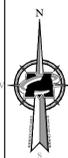
- A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.
- B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be emailed or mailed to the following address:

Email: JuanCarlos.Corona@usace.army.mil
Mailing Address:
U.S. Army Corps of Engineers
Philadelphia District
ATTN: Juan Carlos Corona
7th Floor
100 Penn Square East
Philadelphia, PA 19107-3390



LOCATION MAP



STATE OF NEW JERSEY



BOAT RAMP AND FISHING AREA POINT PLEASANT WMA POINT PLEASANT, OCEAN COUNTY

NJDPMC PROJECT No. P1225-00

HONORABLE PHILIP D. MURPHY-GOVERNOR

HONORABLE SHEILA Y. OLIVER-LIEUTENANT GOVERNOR

DEPARTMENT OF THE TREASURY

ELIZABETH MAHER MUOIO, STATE TREASURER

DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION

CHRISTOPHER CHIANESE, DIRECTOR

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SHAWN M. LaTOURETTE, ACTING COMMISSIONER

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| | 03/02/21 | ABM | PERFORMANCE REPORT SUBMISSION |

Richard C. Maloney
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 N.J. C.O.A. #: 24GA2796500

BOAT RAMP AND FISHING AREA
 PROJECT No. P1225-00
 FOR
 POINT PLEASANT WMA

 BEACH BOULEVARD
 POINT PLEASANT
 OCEAN COUNTY
 STATE OF NEW JERSEY

MASER CONSULTING
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| PROJECT NUMBER: | DRAWING NAME: | | |
| 20009556G | C-COVER | | |

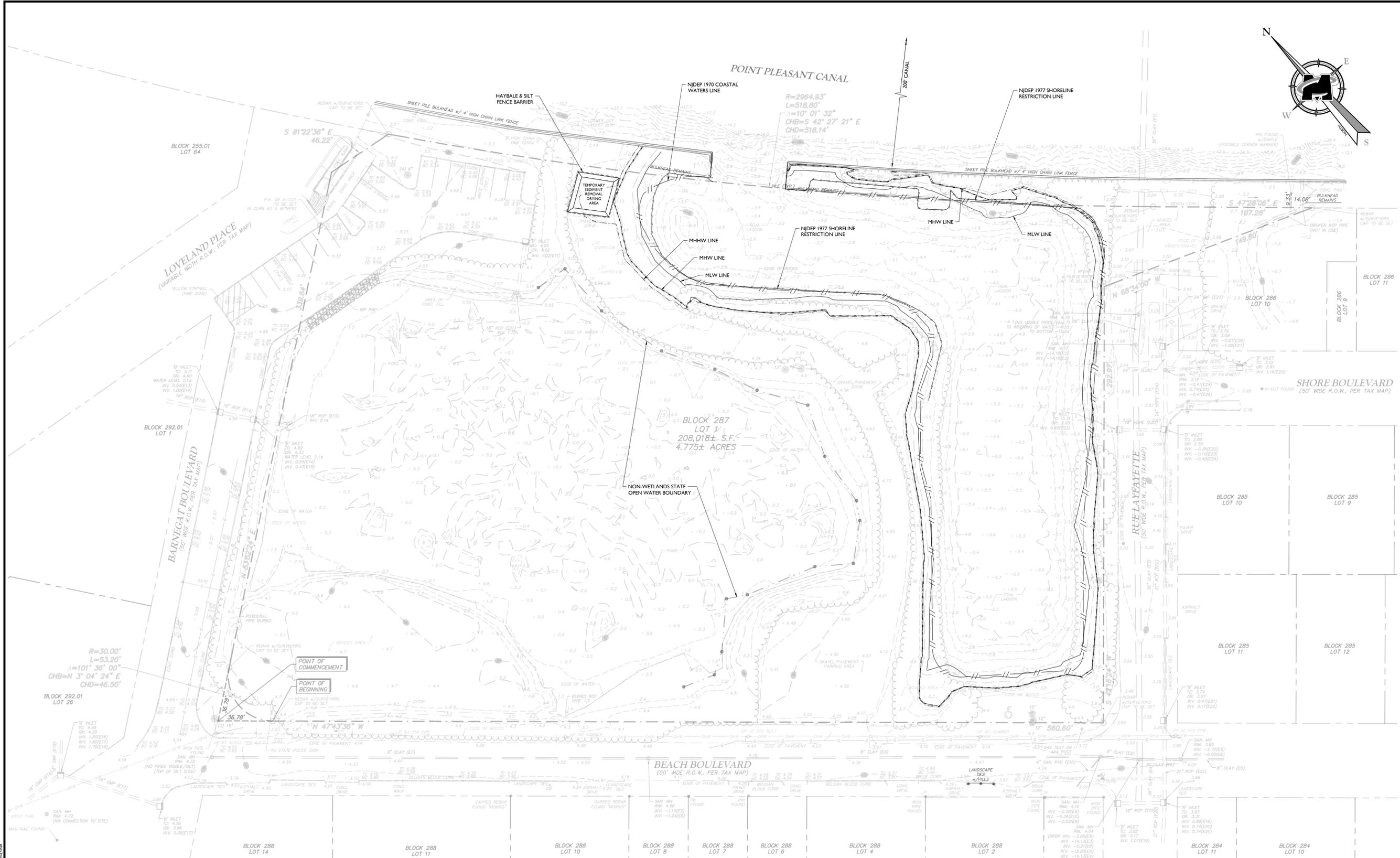
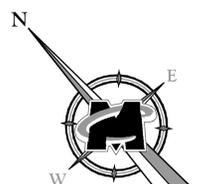
SHEET TITLE
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EXISTING CONDITIONS PLAN
 SCALE: 1" = 30'-0"

| STATION MOST RECENT TIDAL DATUM | RANGE OF TIDE | | | | PPWMA ESTIMATED* |
|---------------------------------|------------------------|-------------------|--------------------------|---------------------|------------------|
| | BEAVER CREEK 1976 MLLW | BRIELLE 1976 MLLW | BEAVER CREEK 1976 NAVD88 | BRIELLE 1976 NAVD88 | |
| MEAN HIGH HIGH WATER (MHHW) | 0.55 | 4.38 | -0.56 | 3.27 | |
| MEAN HIGH WATER (MHW) | 0.36 | 4.05 | -0.75 | 2.94 | 1.13 |
| MEAN TIDAL LEVEL (MTL) | 0.22 | 2.11 | -0.89 | 1.00 | |
| MEAN LOW WATER (MLW) | 0.06 | 0.16 | -1.05 | -0.95 | -0.50 |
| MEAN LOWER LOW WATER (MLLW) | 0.00 | 0.00 | -1.11 | -1.11 | |

FEMA DATA (REVISED 2018):
 BASE FLOOD ELEVATION ZONE AE 5.0'

NOTES:
 1. ALL AREAS NOT DESIGNATED FOR REMOVAL SHALL BE MAINTAINED IN PRE-CONSTRUCTION CONDITION. CONTRACTOR SHALL SUBMIT PHOTOS AND VIDEO OF ENTIRE PROJECT AREA AND SURROUNDING AREA, IF THE CONTRACTOR FEELS THAT ANY FURTHER AREA IS NEEDED FOR EXCAVATION BEYOND WHAT IS DESIGNATED IN THESE PLANS, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER DURING THE BIDDING PROCESS AND SHALL FACTOR IN ANY ANTICIPATED ADDITIONAL WORK IN THEIR BASE BID. ANY DAMAGE SHALL BE REPAIRED AT NO COST TO OWNER.

- FIELD WORK PERFORMED BY MASER CONSULTING ON OCTOBER 22, 2020.
- PROPERTY KNOWN AS LOT 1, BLOCK 287, TAX MAP SHEETS NO. 18, IN THE BOROUGH OF POINT PLEASANT, OCEAN COUNTY, STATE OF NEW JERSEY.
- REFERENCES
 A PLAN ENTITLED "SURVEY FOR NEW JERSEY STATE DEPARTMENT OF CONSERVATION & ECOLOGICAL DEVELOPMENT, GREEN ACRES PROGRAM, POINT PLEASANT STATE MARINA, BORO OF POINT PLEASANT, OCEAN COUNTY, NEW JERSEY," DATED MAY 1966 AND PREPARED BY THOMAS A. FINNEGAN, P.L.S.
- HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (NAD 83) (NEW JERSEY STATE PLANE COORDINATE SYSTEM)
 VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
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SCALE: 1" = 30'

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| 1 | 11/20/20 | ABM | CONCEPTUAL DESIGN |
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| 6 | 03/03/21 | ABM | FINAL DESIGN #2 SUBMISSION |
| 7 | 04/07/21 | ABM | FINAL DESIGN #3 SUBMISSION |
| 8 | 04/19/21 | ABM | FINAL DESIGN #4 SUBMISSION |
| 9 | 04/22/21 | ABM | NEEP COMMENTS REVISION 1 |

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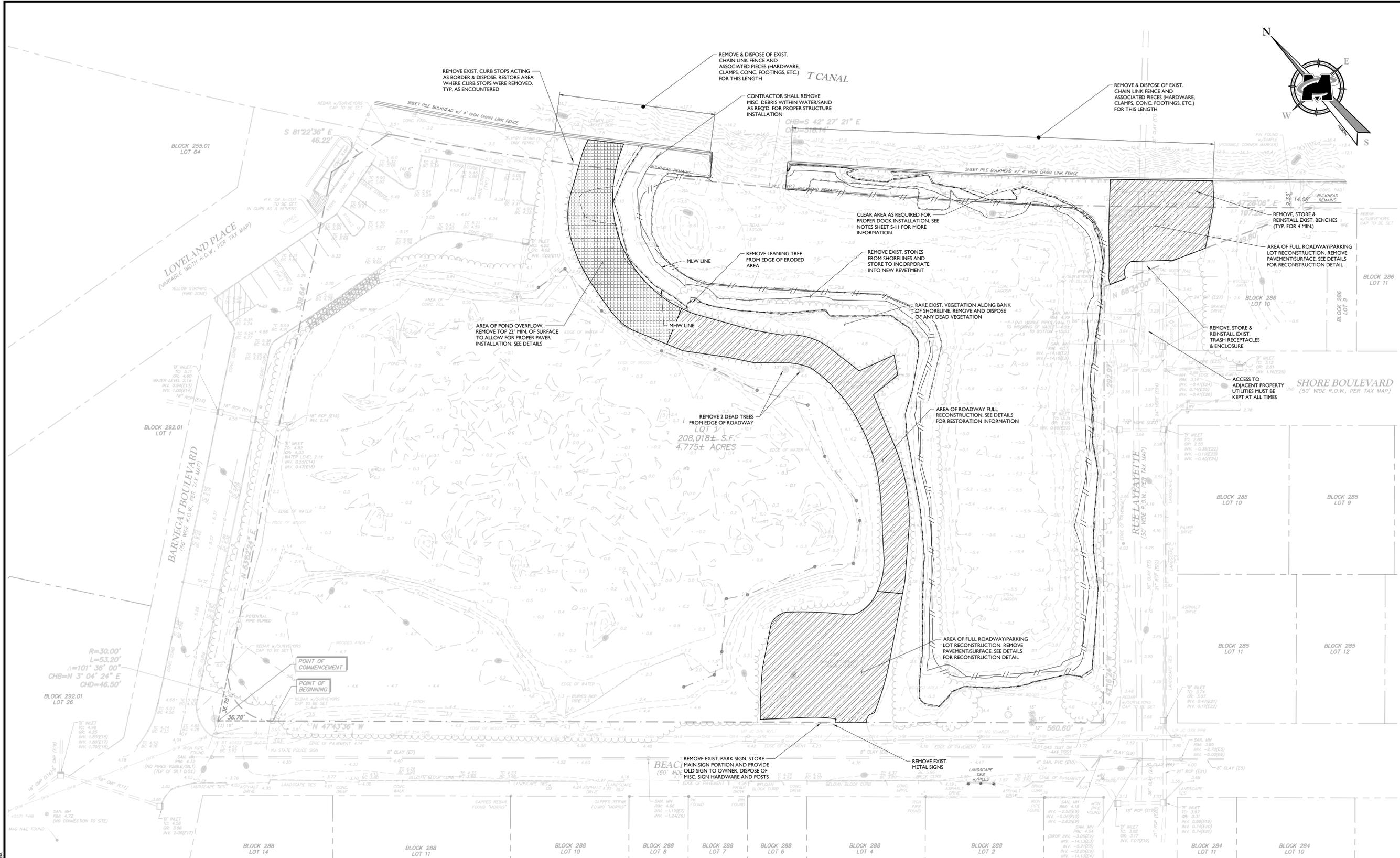
BOAT RAMP AND FISHING AREA
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| 2 | 12/10/20 | ABM | SCHEMATIC DESIGN SUBMISSION |
| 3 | 03/09/21 | ABM | DESIGN DEVELOPMENT SUBMISSION |
| 4 | 03/09/21 | ABM | PERMISSIVE PERMIT SUBMISSION |
| 5 | 03/23/21 | ABM | FINAL DESIGN #1 SUBMISSION |
| 6 | 03/23/21 | ABM | FINAL DESIGN #2 SUBMISSION |
| 7 | 04/07/21 | ABM | FINAL DESIGN #3 SUBMISSION |
| 8 | 04/19/21 | ABM | FINAL DESIGN #4 SUBMISSION |
| 9 | 04/22/21 | ABM | NEEP COMMENTS REVISION 1 |

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| PROJECT NUMBER: | 20009556G | DRAWING NAME: | CLAYT |
| SHEET TITLE: DEMOLITION PLAN | | | |
| SHEET NUMBER: S-02 | | | |

RANGE OF TIDE

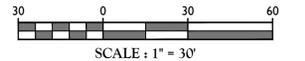
| STATION | BEAVER CREEK 1976 MLW | BRIELLE 1976 MLW | BEAVER CREEK 1976 NAVD88 | BRIELLE 1976 NAVD88 | PPNVA ESTIMATED* |
|------------------------------|-----------------------|------------------|--------------------------|---------------------|------------------|
| MEAN HIGH HIGH WATER (MH-HW) | 0.55 | 4.38 | -0.56 | 3.27 | |
| MEAN HIGH WATER (MHW) | 0.36 | 4.05 | -0.75 | 2.94 | 1.13 |
| MEAN TIDAL LEVEL (MTL) | 0.22 | 2.11 | -0.89 | 1.00 | |
| MEAN LOW WATER (MLW) | 0.06 | 0.16 | -1.05 | -0.95 | -0.50 |
| MEAN LOWER LOW WATER (MLLW) | 0.00 | 0.00 | -1.11 | -1.11 | |

FEMA DATA (REVISED 2018):
 BASE FLOOD ELEVATION ZONE AE: 5.0'

*ABOVE TABLE LISTS CURRENT TIDAL STATIONS NEAR THE PROJECT SITE. DUE TO THE UNIQUE CONFIGURATION OF THE CANAL WITH ADJACENT WATER BODIES, ACTUAL MHW AND MLW DATA AT THE POINT PLEASANT WMA LAAGOON ARE CONSIDERABLY DIFFERENT. THIS PLAN SHOWS THE ESTIMATED MHW AND MLW LOCATIONS BASED OFF MULTIPLE FIELD SURVEYS, AERIAL DATA AND RESEARCH.

- NOTES:**
- REMOVE ALL ITEMS AS NOTED ON THE PLAN. IF ANY ITEMS ARE ENCOUNTERED WHICH RESTRICT THE INSTALLATION OF ANY COMPONENT OF THIS PROJECT, THE ITEMS SHALL BE REMOVED AS REQUIRED AND PROPERLY DISPOSED OF.
 - ALL AREAS NOT DESIGNATED FOR REMOVAL SHALL BE MAINTAINED IN PRE-CONSTRUCTION CONDITION. CONTRACTOR SHALL SUBMIT PHOTOS AND VIDEO OF ENTIRE PROJECT AREA AND SURROUNDING AREA, IF THE CONTRACTOR FEELS THAT ANY FURTHER AREA IS NEEDED FOR EXCAVATION BEYOND WHAT IS DESIGNATED IN THESE PLANS, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER DURING THE BIDDING PROCESS AND SHALL FACTOR IN ANY ANTICIPATED ADDITIONAL WORK IN THEIR BASE BID. ANY DAMAGE SHALL BE REPAIRED AT NO COST TO OWNER.
 - ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AS IT ACCUMULATES AND SHALL NOT BE STORED ON SITE.
 - REMOVE & STORE ALL SIGNS, BENCHES AND ANY OTHER POTENTIALLY UNIDENTIFIED APPURTENANCES WITHIN THE PROJECT LIMITS. ITEMS TO BE STORED ON SITE AT A LOCATION SPECIFIED PER OWNER. REINSTALL AS DIRECTED.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS FROM MUDLINE AT THE CONCLUSION OF CONSTRUCTION. DEBRIS INCLUDES BUT IS NOT LIMITED TO: TIMBER PIECES AND HARDWARE FROM EXISTING BULKHEAD STRUCTURES, FILL LOSS DUE TO DEMOLITION AND CONSTRUCTION AND ANY OTHER MISCELLANEOUS ITEMS THAT MAY BE ENCOUNTERED IN THE MUDLINE.
 - REMOVE ADDITIONAL ITEMS AS DETAILED ON FOLLOWING SHEETS AND AS REQUIRED TO COMPLETE INTENT OF WORK AS SHOWN ON PLANS.

- FIELD WORK PERFORMED BY MASER CONSULTING ON OCTOBER 22, 2020.
- PROPERTY KNOWN AS LOT 1, BLOCK 287, TAX MAP SHEETS No. 18, IN THE BOROUGH OF POINT PLEASANT, OCEAN COUNTY, STATE OF NEW JERSEY.
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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

| REV | DATE | DRAWN BY | DESCRIPTION |
|-----|----------|----------|-------------------------------|
| 1 | 11/20/20 | ABM | CONCEPTUAL DESIGN |
| 2 | 12/10/20 | ABM | SCHEMATIC DESIGN SUBMISSION |
| 3 | 02/09/21 | ABM | DESIGN DEVELOPMENT SUBMISSION |
| 4 | 03/02/21 | ABM | USER/FACE LIFT SUBMISSION |
| 5 | 03/23/21 | ABM | FINAL DESIGN #1 SUBMISSION |
| 6 | 04/07/21 | ABM | FINAL DESIGN #2 SUBMISSION |
| 7 | 04/19/21 | ABM | FINAL DESIGN #3 SUBMISSION |
| 8 | 04/22/21 | ABM | NEBP COMMENTS REVISION 1 |

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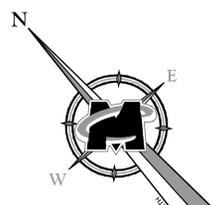
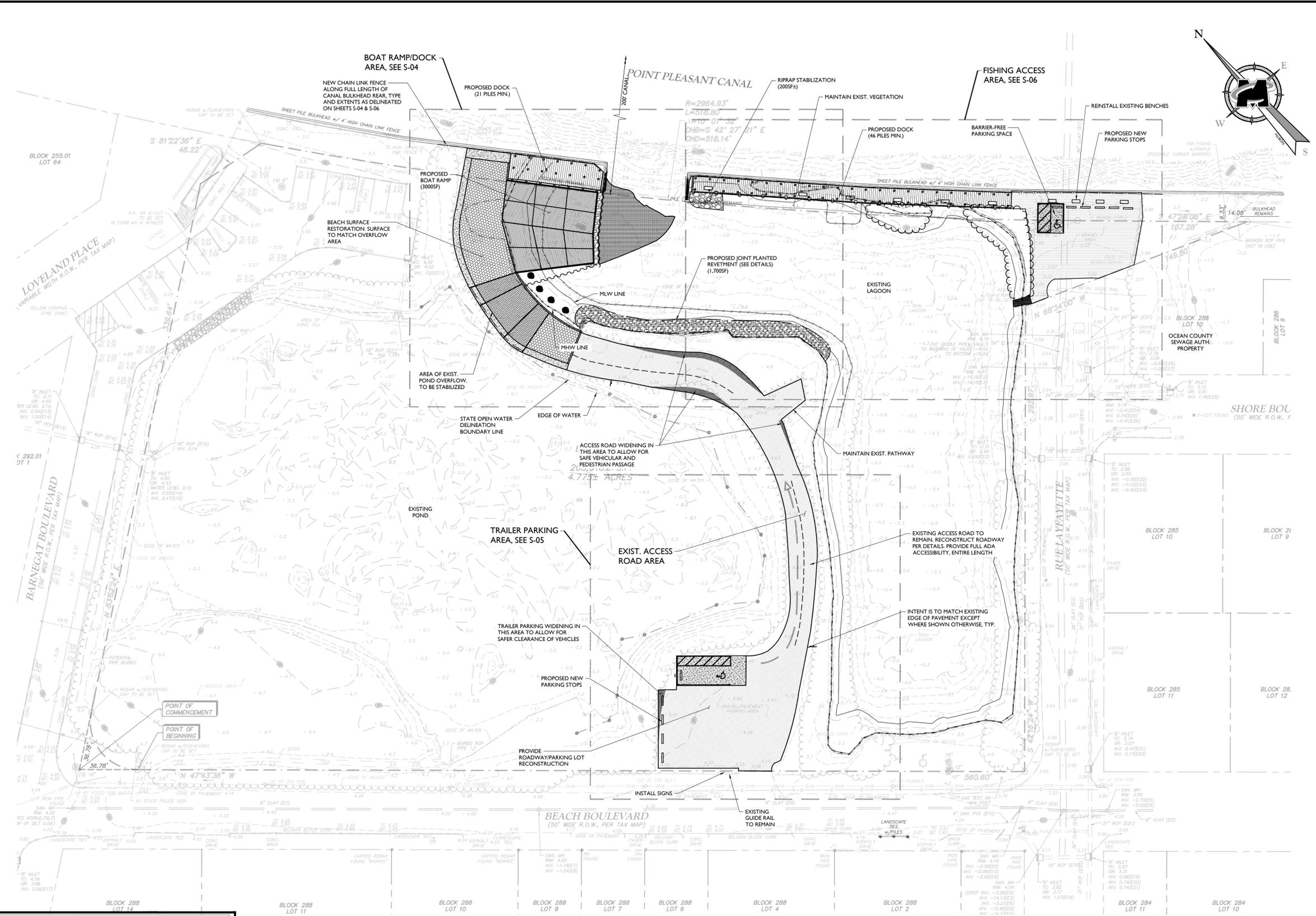
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| PROJECT NUMBER: | 20009556G | DRAWING NAME: | CLAYT |

SHEET TITLE
OVERALL PROJECT PLAN
 SHEET NUMBER
S-03



| STATION | RANGE OF TIDE | | | | PP/MA ESTIMATED* |
|-----------------------------|------------------------|-------------------|--------------------------|---------------------|------------------|
| | BEAVER CREEK 1976 MLLW | BRIELLE 1976 MLLW | BEAVER CREEK 1976 NAVD88 | BRIELLE 1976 NAVD88 | |
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| MEAN HIGH WATER (MHW) | 0.36 | 4.05 | -0.75 | 2.94 | 1.13 |
| MEAN TIDAL LEVEL (MTL) | 0.22 | 2.11 | -0.89 | 1.00 | |
| MEAN LOW WATER (MLW) | 0.06 | 0.16 | -1.05 | -0.95 | -0.50 |
| MEAN LOWER LOW WATER (MLLW) | 0.00 | 0.00 | -1.11 | -1.11 | |

FEMA DATA (REVISED 2018):
 BASE FLOOD ELEVATION ZONE AE: 5.0'

TOTAL AREA OF NEW IMPERVIOUS: 4555F (0.01AC)
 TOTAL AREA OF DISTURBANCE: 0.9AC

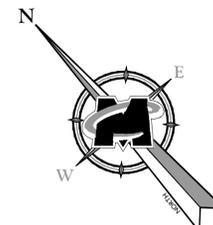
OVERALL PROJECT PLAN
 SCALE: 1" = 30'-0"

- NOTES:
- ALL SIGNS & POSTS MUST BE INSTALLED PRIOR TO ANY SURFACING OPERATIONS. CORING THROUGH SURFACING IS NOT PERMITTED FOR ANY ITEMS.
 - SEE DETAILS FOR EXACT DIMENSIONS, WORDING, ETC. OF EXISTING SIGNS. SIGNS TO MATCH CHAPTER 2M REQUIREMENTS OF MUTCD 300P. POSTS FOR EACH SIGN SHALL BE NEW. GENERAL LOCATION OF SIGNS IS SHOWN. EXACT LOCATION OF SIGNS SHALL BE COORDINATED WITH OWNER IN FIELD PRIOR TO INSTALLATION.
 - BARRIER-FREE COMPLIANCE FOR THE PROJECT SITE IS DEMONSTRATED ON THIS SHEET. THERE ARE 4 PROPOSED VEHICLE PARKING SPACES IN THE FISHING AREA WITH 1 PROPOSED VAN ACCESSIBLE HANDICAPPED SPACE PROVIDED (DELINEATED ON THIS PLAN). THERE ARE 5 PROPOSED VEHICLE PARKING SPACES IN THE TRAILER PARKING AREA WITH 1 PROPOSED VAN ACCESSIBLE HANDICAPPED SPACE PROVIDED (DELINEATED ON THIS PLAN). THESE MEET THE REQUIRED NUMBER PER THE REQUIREMENTS OF BC TABLE 1106.1.
 - CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES THAT MAY BE IMPACTED IN THIS PROJECT AREA. CONTRACTOR TO PROVIDE ANY SUPPORT TO AS NEEDED AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR TO RESTORE ANY CURBS, LANDSCAPING, ETC. OUTSIDE OF PROJECT LIMITS AS REQUIRED IF AFFECTED BY CONSTRUCTION OPERATIONS.
 - SET ROAD SURFACES 1/2" HIGHER THAN ANY ADJOINING CONCRETE AND DECKING SURFACES AT INTERFACE WITH ROAD SURFACE AND CONCRETE/DECKING.

- FIELD WORK PERFORMED BY MASER CONSULTING ON OCTOBER 22, 2020.
- PROPERTY KNOWN AS LOT 1, BLOCK 287, TAX MAP SHEETS No. 18, IN THE BOROUGH OF POINT PLEASANT, OCEAN COUNTY, STATE OF NEW JERSEY.
- REFERENCES:
 A PLAN ENTITLED "SURVEY FOR NEW JERSEY STATE DEPARTMENT OF CONSERVATION & ECOLOGICAL DEVELOPMENT, GREEN ACRES PROGRAM, POINT PLEASANT STATE MARINA, BORO OF POINT PLEASANT, OCEAN COUNTY, NEW JERSEY," DATED MAY 1966 AND PREPARED BY THOMAS A. FINNIGAN, P.L.S.
- HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (NAD 83) (NEW JERSEY STATE PLANE COORDINATE SYSTEM)
 VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON SURFACE MARKOUTS, STRUCTURES AND ANY UTILITY MAPS PROVIDED BY UTILITY COMPANIES REFERENCED HEREON. NO EXCAVATIONS WERE MADE DURING THE PROCESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY HAVE BEEN ENCOUNTERED. THE CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITIES FIELD-VERIFIED BY THE PROPER UTILITY COMPANIES BEFORE ANY CONSTRUCTION BEGINS.



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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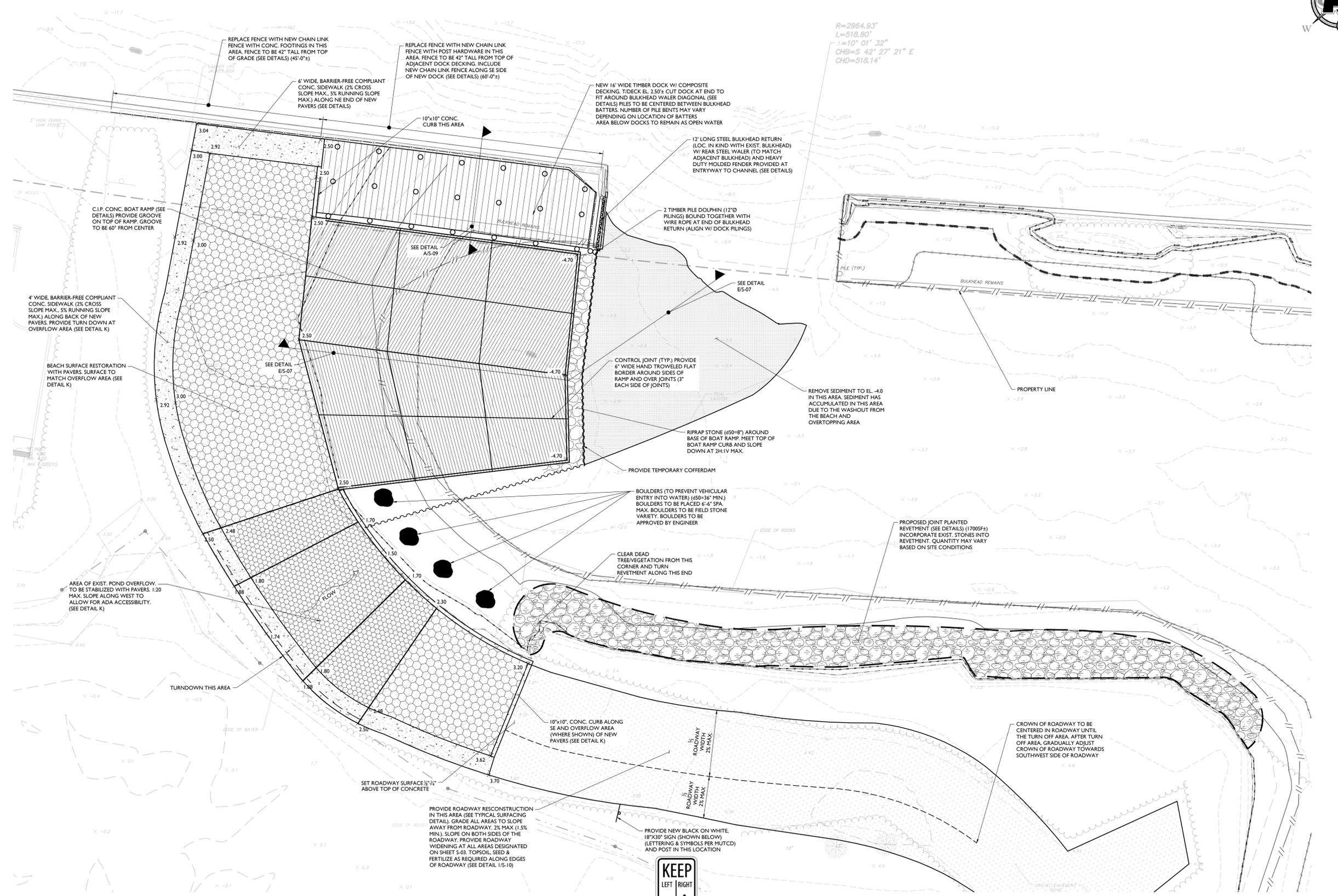
BOAT RAMP AND FISHING AREA
 PROJECT No. P1225-00
 FOR
POINT PLEASANT WMA

BEACH BOULEVARD
POINT PLEASANT
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| C-LAYT | C-LAYT | | |

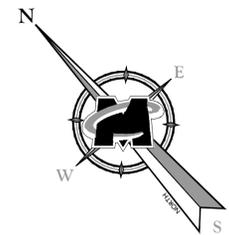
SHEET TITLE
BOAT RAMP/DOCK & REVETMENT AREA
 SHEET NUMBER:
S-04



BOAT RAMP/DOCK AREA & REVETMENT AREA
 SCALE: 1" = 10'-0"

NOTES:
 1. ENTIRE POND OVERFLOW AREA AND BEACH AREA TO BE RECONSTRUCTED WITH PAVERS, GRAVEL SUBBASE & CONCRETE CURB/SIDEWALK PER DETAIL K/S-10.



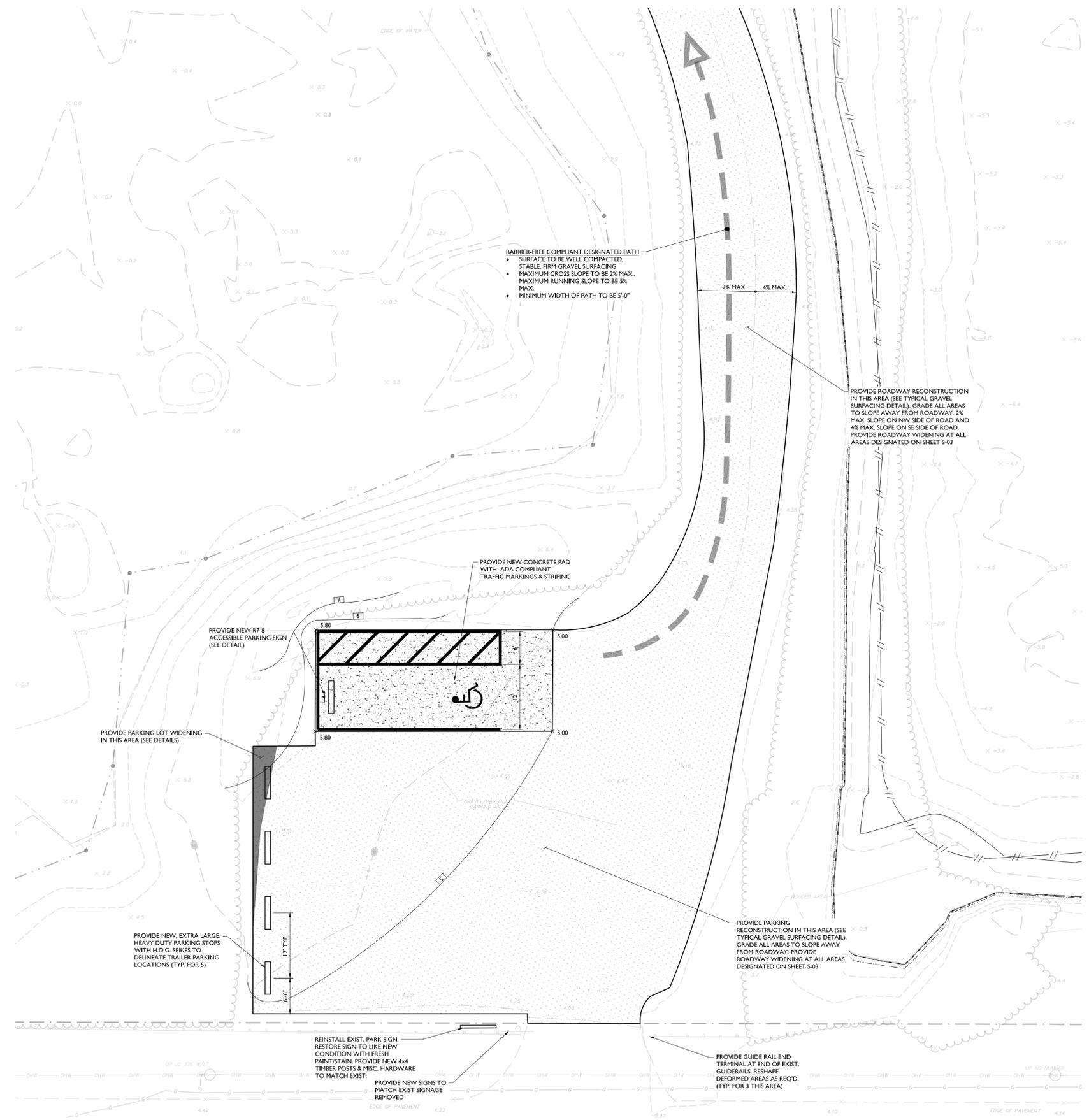


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BARRIER-FREE COMPLIANT DESIGNATED PATH

- SURFACE TO BE WELL COMPACTED, STABLE, FIRM GRAVEL SURFACING
- MAXIMUM CROSS SLOPE TO BE 2% MAX, MAXIMUM RUNNING SLOPE TO BE 5% MAX
- MINIMUM WIDTH OF PATH TO BE 5'-0"

PROVIDE ROADWAY RECONSTRUCTION IN THIS AREA (SEE TYPICAL GRAVEL SURFACING DETAIL). GRADE ALL AREAS TO SLOPE AWAY FROM ROADWAY, 2% MAX. SLOPE ON NW SIDE OF ROAD AND 4% MAX. SLOPE ON SE SIDE OF ROAD. PROVIDE ROADWAY WIDENING AT ALL AREAS DESIGNATED ON SHEET 5-03

PROVIDE NEW CONCRETE PAD WITH ADA COMPLIANT TRAFFIC MARKINGS & STRIPING

PROVIDE NEW R7-8 ACCESSIBLE PARKING SIGN (SEE DETAIL)

PROVIDE PARKING LOT WIDENING IN THIS AREA (SEE DETAILS)

PROVIDE NEW, EXTRA LARGE, HEAVY DUTY PARKING STOPS WITH H.D.G. SPIKES TO DELINEATE TRAILER PARKING LOCATIONS (TYP. FOR 5)

REINSTALL EXIST. PARK SIGN. RESTORE SIGN TO LIKE NEW CONDITION WITH FRESH PAINT/STAIN. PROVIDE NEW 4x4 TIMBER POSTS & MISC. HARDWARE TO MATCH EXIST.

PROVIDE NEW SIGNS TO MATCH EXIST SIGNAGE REMOVED

PROVIDE GUIDE RAIL END TERMINAL AT END OF EXIST. GUIDERAILS. RESHAPE DEFORMED AREAS AS REQ'D. (TYP. FOR 3 THIS AREA)

TRAILER PARKING LOT AREA/ROADWAY PLAN
 SCALE: 1" = 10'-0"



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BOAT RAMP AND FISHING AREA
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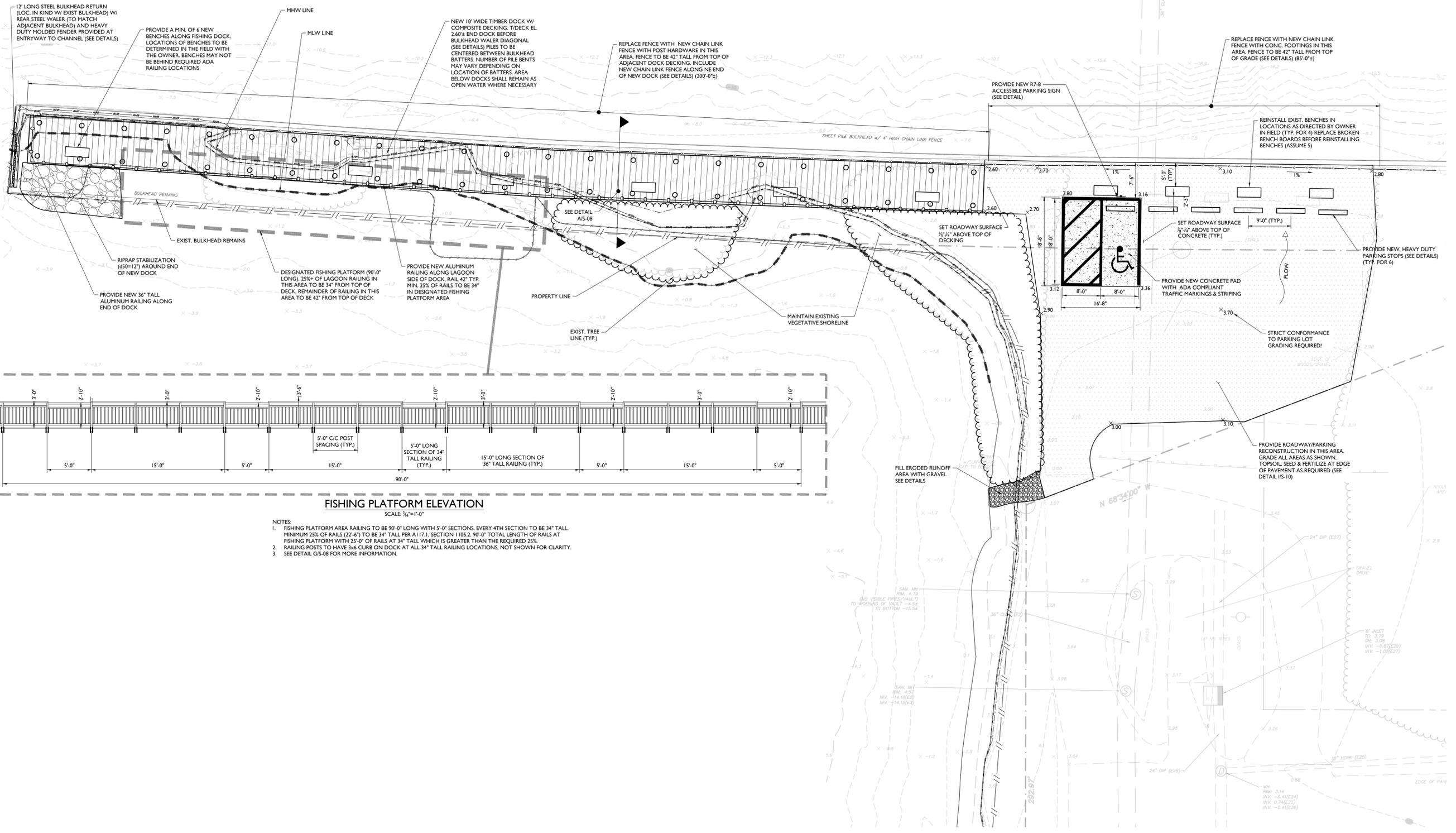
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SHEET TITLE
TRAILER PARKING LOT AREA/ ROADWAY PLAN

SHEET NUMBER
S-05

3/20/2009/09/05/Elements/Drawings/Engineering/05_Plan/LAYT/05-00-TRAIL.PKG By: AMR/DNA

L=518.80'
 Δ=10° 01' 32"
 CHB=S 42° 27' 21" E
 CHD=518.14'



FISHING PLATFORM ELEVATION
 SCALE: 3/8"=1'-0"

- NOTES:
- FISHING PLATFORM AREA RAILING TO BE 90'-0" LONG WITH 5'-0" SECTIONS. EVERY 4TH SECTION TO BE 34" TALL. MINIMUM 25% OF RAILS (22'-6") TO BE 34" TALL PER A117.1. SECTION 1105.2. 90'-0" TOTAL LENGTH OF RAILS AT FISHING PLATFORM WITH 25'-0" OF RAILS AT 34" TALL WHICH IS GREATER THAN THE REQUIRED 25%.
 - RAILING POSTS TO HAVE 3x6 CURB ON DOCK AT ALL 34" TALL RAILING LOCATIONS, NOT SHOWN FOR CLARITY.
 - SEE DETAIL G5-08 FOR MORE INFORMATION.

FISHING ACCESS AREA & DOCK PLAN
 SCALE: 1"=10'-0"



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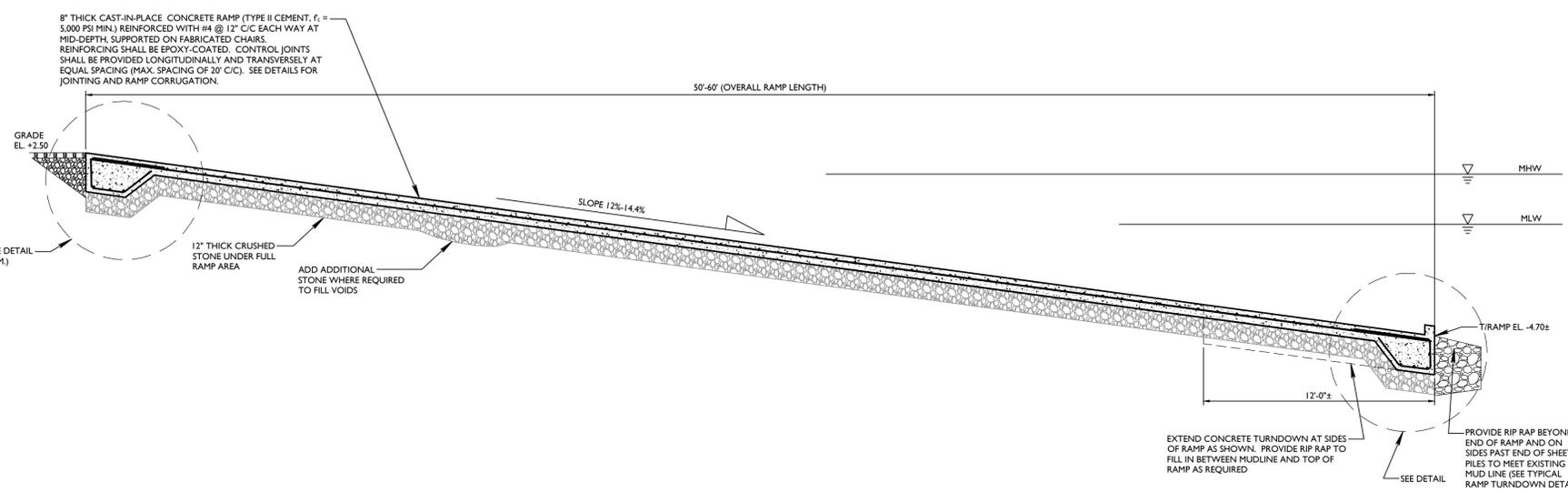
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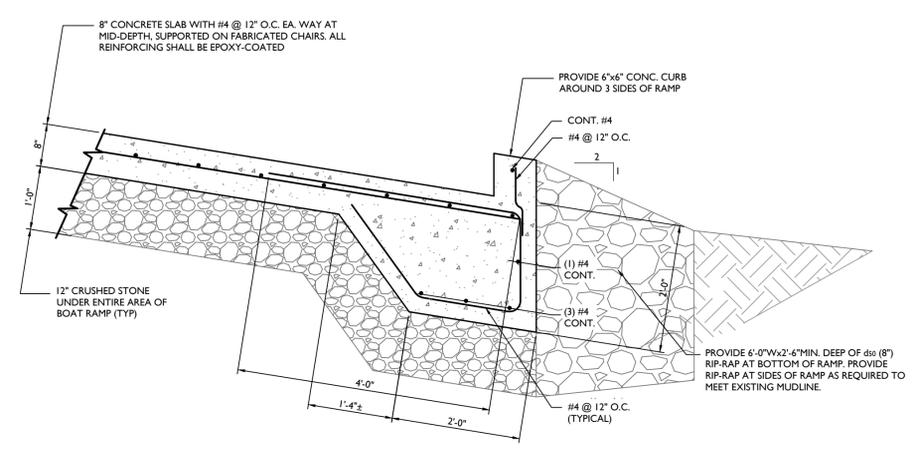
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SHEET TITLE:
FISHING ACCESS AREA & DOCK PLAN

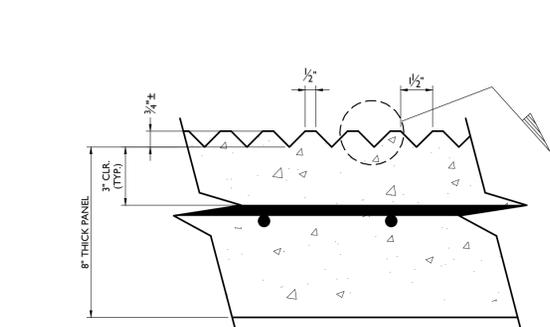
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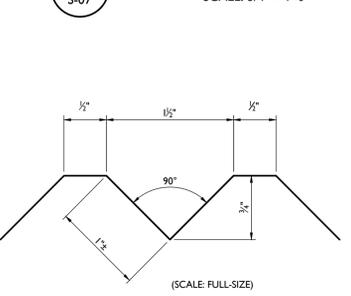
BOAT RAMP CROSS SECTION
 SCALE: 3/4" = 1'-0"



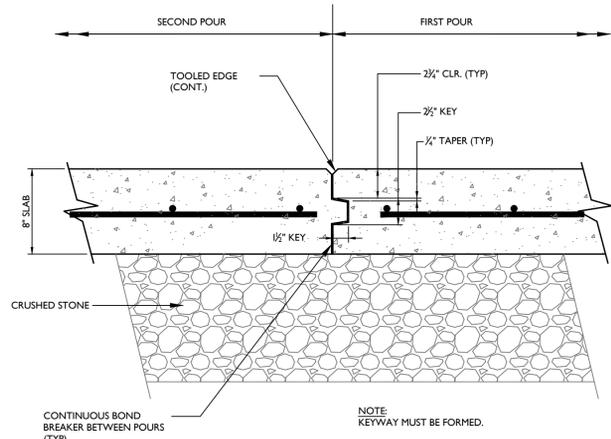
TYPICAL RAMP TURNDOWN DETAIL
 SCALE: 3/4" = 1'-0"



TYPICAL RAMP CORRUGATION DETAIL
 SCALE: 3" = 1'-0"

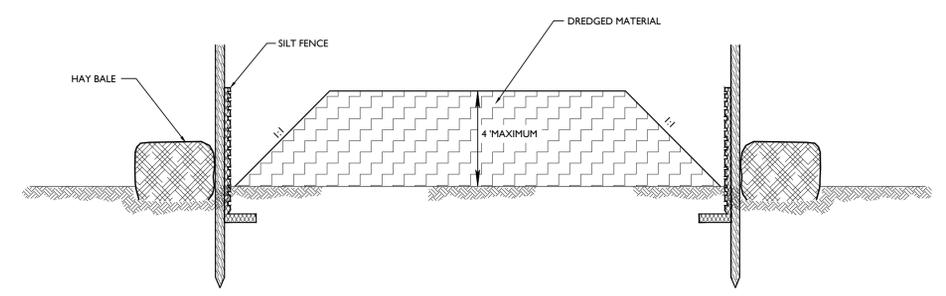


TYPICAL RAMP CONTROL JOINT DETAIL
 SCALE: 3" = 1'-0"

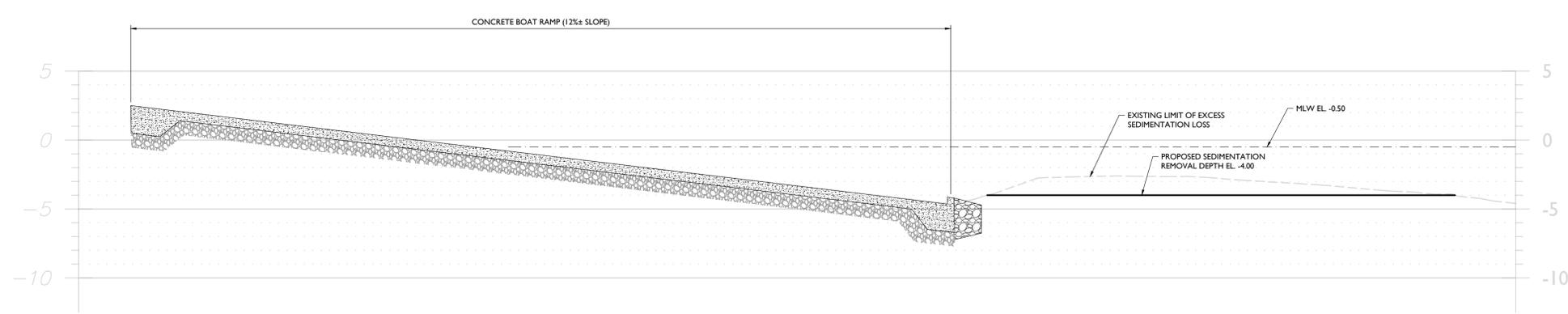


SEDIMENT REMOVAL CROSS SECTION
 SCALE: HORIZONTAL & VERTICAL: 1"=5"

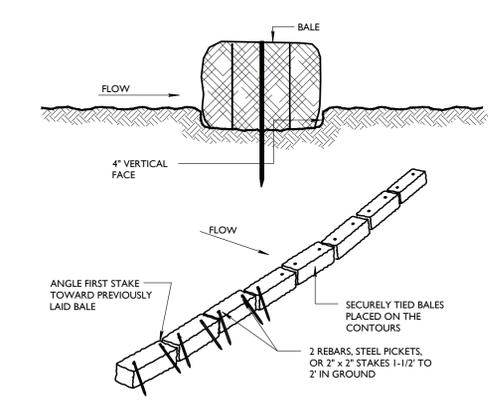
TOTAL VOLUME OF SEDIMENT REMOVAL = 75 CY±



SEDIMENT REMOVAL DRYING AREA SECTION
 SCALE: N.T.S.



SEDIMENT REMOVAL CROSS SECTION
 SCALE: HORIZONTAL & VERTICAL: 1"=5"



PLACEMENT & ANCHORING BALE SEDIMENT BARRIERS
 SCALE: N.T.S.

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BOAT RAMP AND FISHING AREA
 PROJECT No. P1225-00
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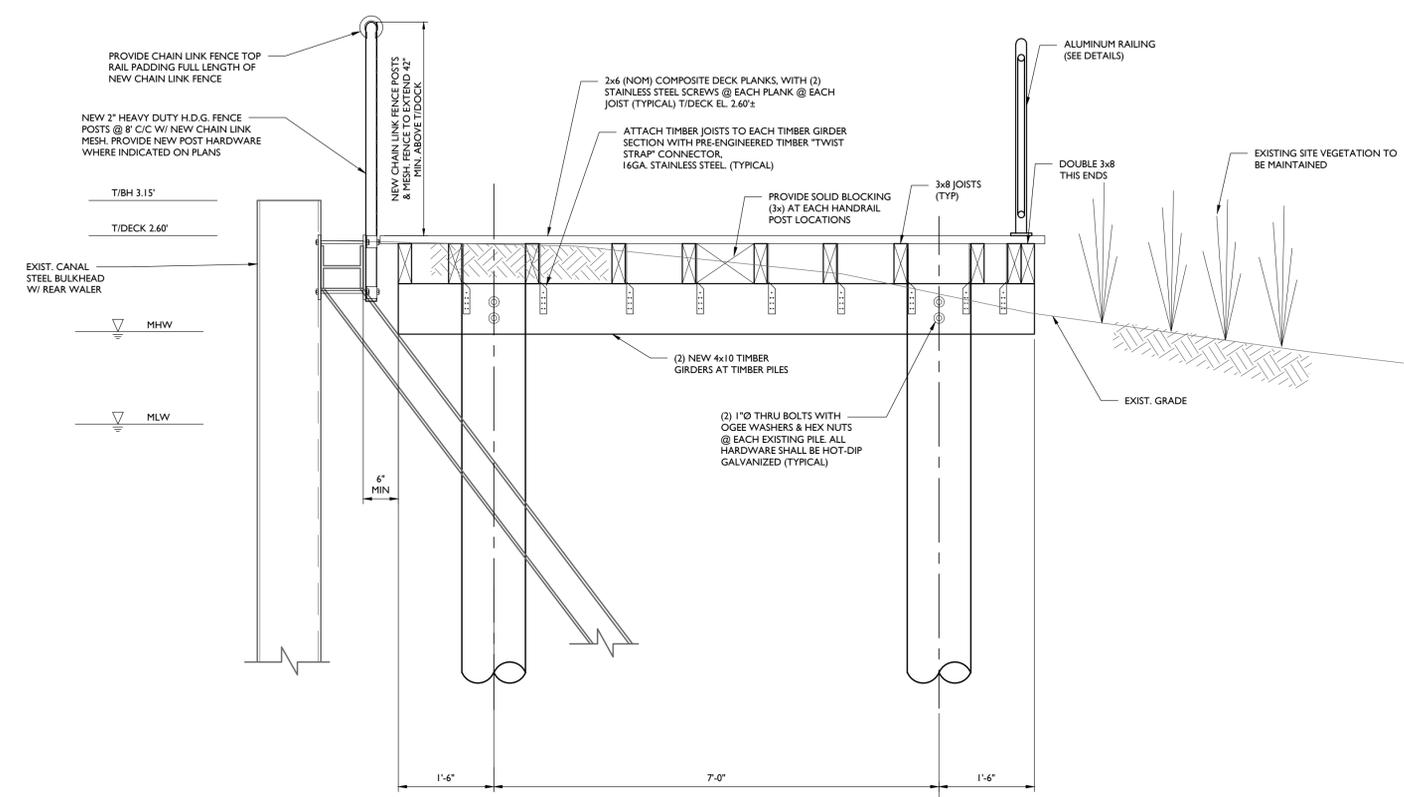
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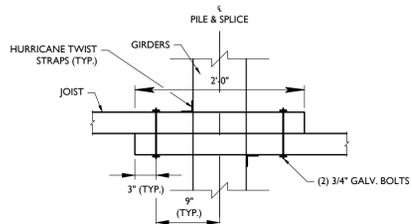
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SHEET TITLE
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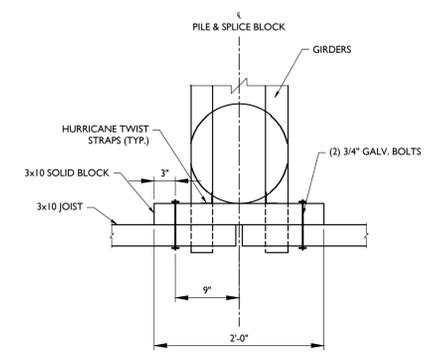
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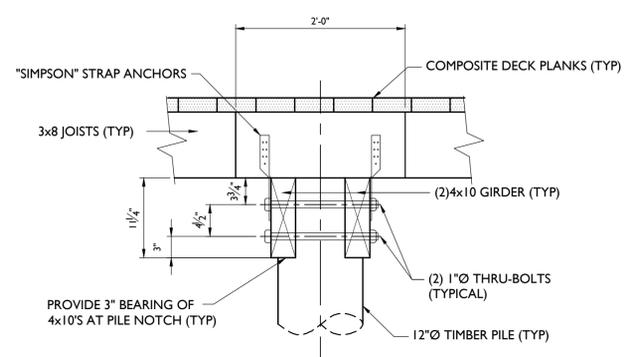
FISHING AREA DOCK SECTION
 SCALE: 3/4" = 1'-0"
 A
 S-08



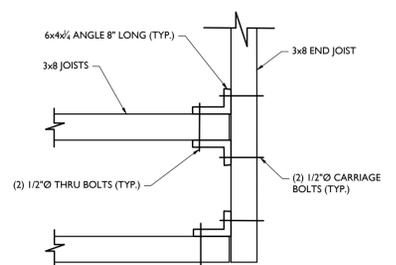
JOIST LAP SPLICE DETAIL
 SCALE: N.T.S.
 B
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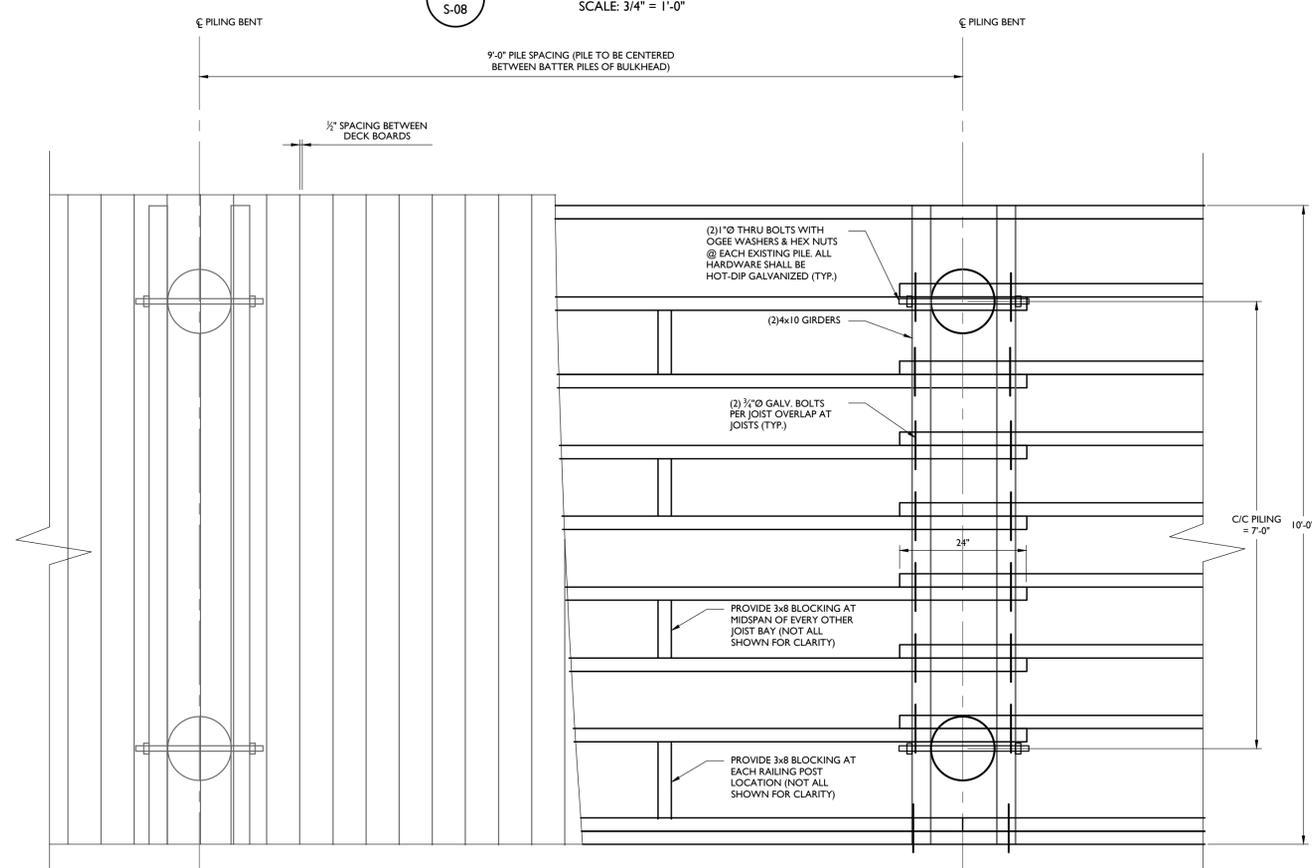
SCAB SPLICE DETAIL
 SCALE: N.T.S.
 C
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TYPICAL PILE TOP DETAIL
 SCALE: N.T.S.
 D
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TYPICAL END JOIST DETAIL
 SCALE: N.T.S.
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FISHING AREA DOCK PLAN
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 B
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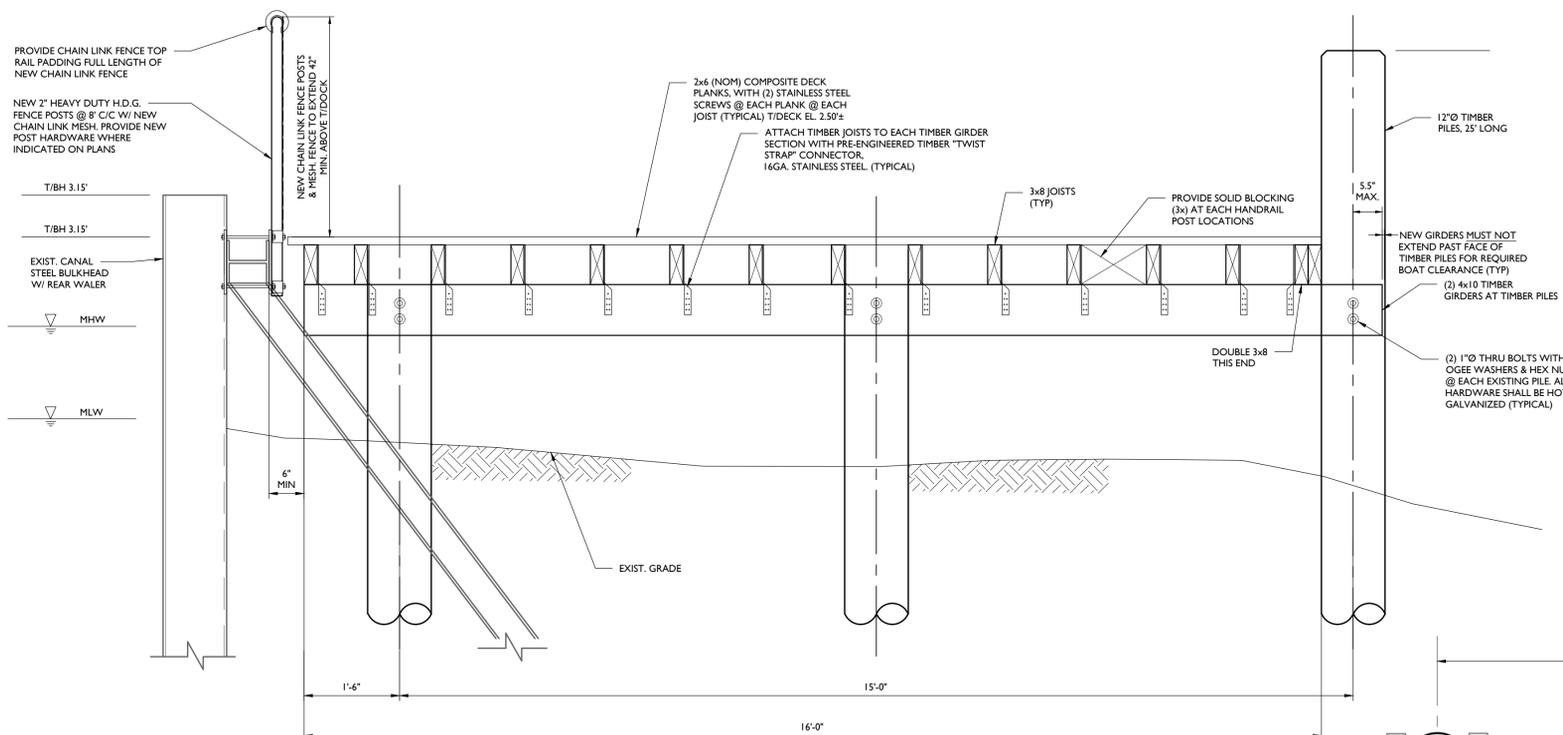
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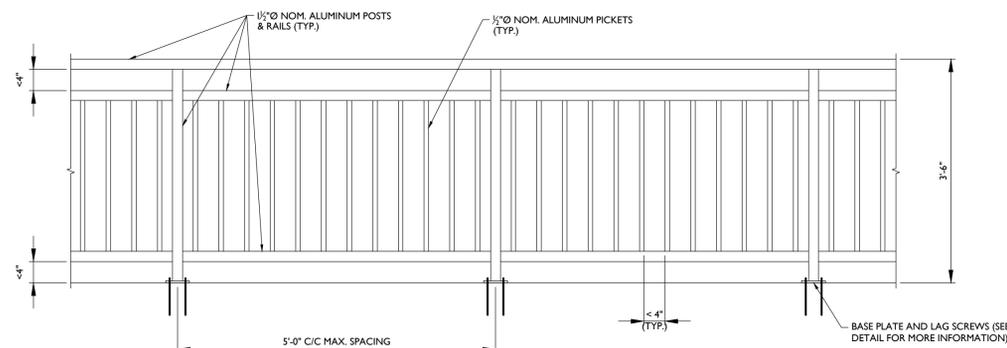
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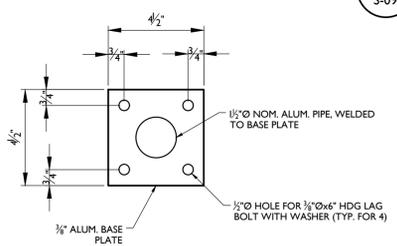
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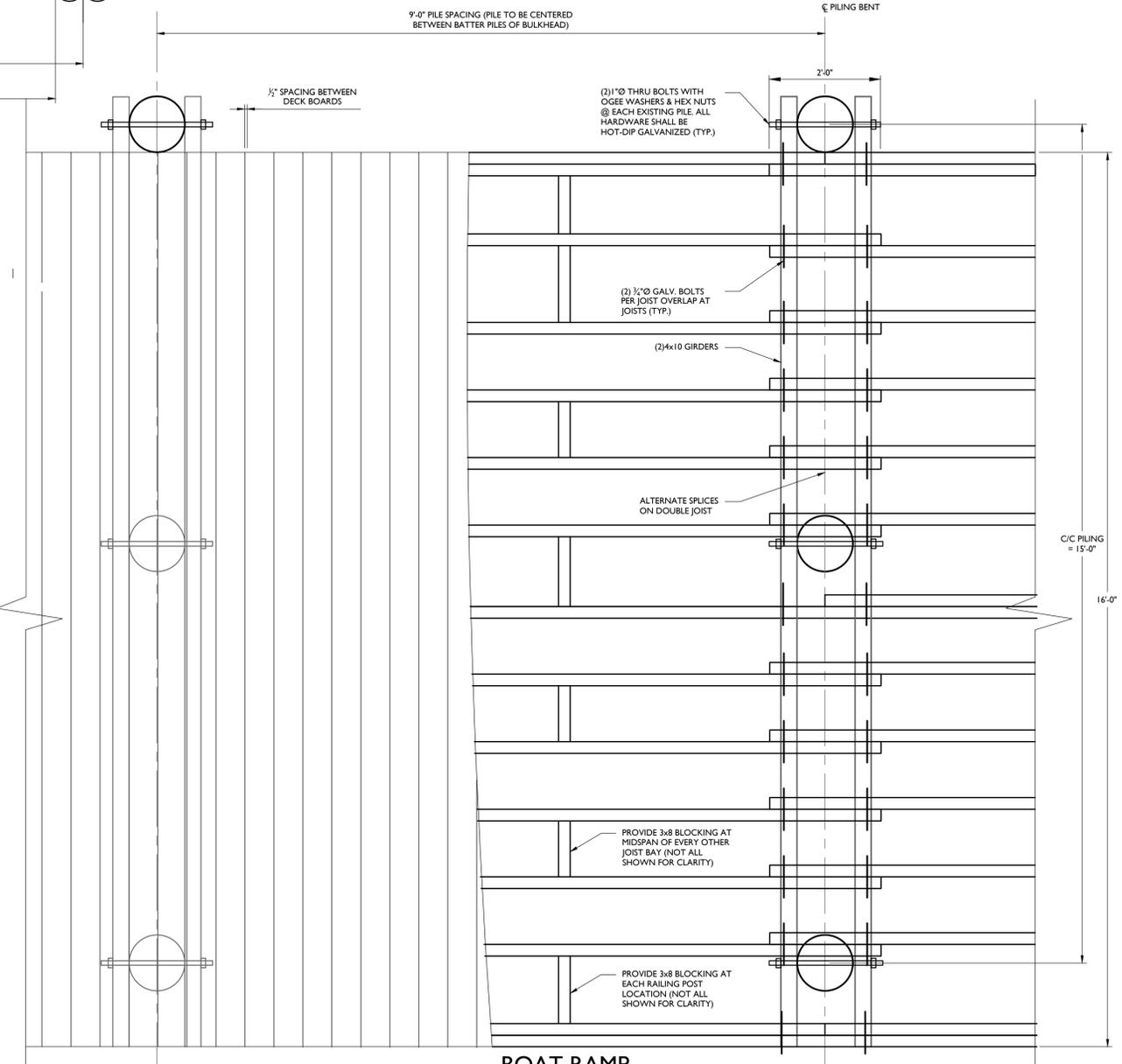
BOAT RAMP DOCK SECTION
SCALE: 3/4" = 1'-0"
A
S-09



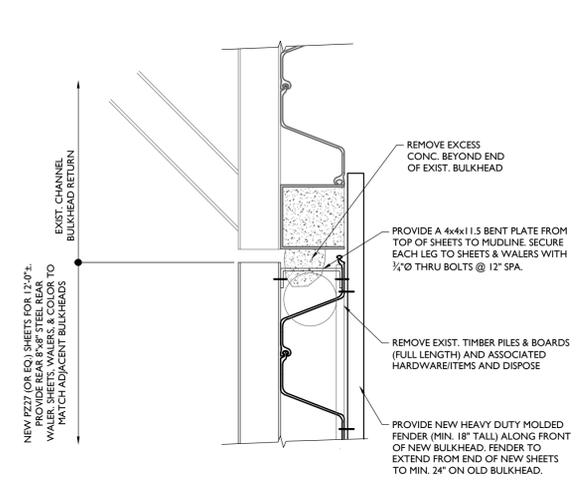
ALUMINUM RAILING DETAIL
SCALE: 3/4" = 1'-0"
C
S-09



RAILING BASE PLATE DETAIL
SCALE: 3" = 1'-0"
D
S-09



BOAT RAMP DOCK PLAN
SCALE: 3/4" = 1'-0"
E
S-09



BULKHEAD RETURNS/TIE-IN DETAIL
SCALE: 3/4" = 1'-0"
B
S-09

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MASER CONSULTING, INC.
N.J. C.O.A. #: 24GA27986500

BOAT RAMP AND FISHING AREA
PROJECT No. P1225-00
FOR
POINT PLEASANT WMA

BEACH BOULEVARD
POINT PLEASANT
OCEAN COUNTY
STATE OF NEW JERSEY

RED BANK OFFICE
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| | | | |
|--------------------------|----------------------|---------------|-----------------|
| SCALE: AS SHOWN | DATE: 02/09/21 | DRAWN BY: ABM | CHECKED BY: RCM |
| PROJECT NUMBER: 2000956G | DRAWING NAME: C-DTLS | | |

SHEET TITLE
DOCK AREA DETAILS
SHEET 2 of 2

SHEET NUMBER
S-09

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC), BASED ON IBC 2018, WHICH IS THE ADOPTED BUILDING CODE FOR THE PROJECT SITE, AND ITS REFERENCE DOCUMENT, ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
- ALL ASPECTS OF THE WORK ALSO SHALL BE IN COMPLETE ACCORDANCE WITH THE REQUIREMENTS AND DIRECTIVES OF THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF ENGINEERING & CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED TO SUPPORT LOADS WHICH NEW AND EXISTING STRUCTURES MAY BE SUBJECTED TO DURING CONSTRUCTION.
- CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, ANGLES, AND DIMENSIONS IN FIELD. ANY UNUSUAL CONDITIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE PURCHASE, FABRICATION, OR ERECTION OF ANY MATERIALS.
- CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN WRITING WITHIN FIVE WORKING DAYS PRIOR TO COMMENCEMENT OF OPERATION OF A CAFRA INDIVIDUAL PERMIT.
- ALL DECK BOARDS TO BE SPACED EXACTLY 1/2" APART.
- CONTRACTOR SHALL REMOVE FILL AND VEGETATION AS REQUIRED (BUT NO MORE THAN REQUIRED) FOR CONSTRUCTION OF NEW DOCKS. CONTRACTOR SHALL SALVAGE AND MAINTAIN ALL VEGETATION ON WEST SIDE OF THE FISHING ACCESS AREA DOCK.
- CONTRACTOR SHALL SUBMIT FOR ENGINEER'S REVIEW, ERECTION DRAWINGS AND DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL MATERIALS INCLUDING BUT NOT LIMITED TO:
 - A. CONCRETE MIXES
 - B. TIMBER TREATMENTS
 - C. EPOXY COATING
 - D. DATA SHEETS ON ALL STRUCTURAL MATERIALS.

EXCAVATION, FOUNDATION AND BACKFILLING

- ALL FOUNDATIONS SHALL BE FOUNDED ON FIRM, UNDISTURBED SOIL. ALL SOFT SPOTS OR OVER-EXCAVATION OF FOOTINGS SHALL BE FILLED WITH ACCEPTABLE FILL MATERIAL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL FOOTING EXCAVATIONS SHALL BE FINISHED BY HAND.
- BACKFILL SHALL BE PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO A MINIMUM DENSITY OF 95% (UNDER SLABS-ON-GRADE, NEW PAVEMENT AND FOOTINGS) MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557 MODIFIED PROCTOR. UNLESS NOTED OTHERWISE.
- COMPLIANCE MUST BE SHOWN THROUGH TESTING PERFORMED BY A CERTIFIED COMPACTION TESTING PROVIDER. A MINIMUM OF 4 TESTS PER LIFT (SPACED ALONG FULL LENGTH OF THE PROJECT) MUST BE PERFORMED. ALL TEST RESULTS MUST BE PROVIDED TO AND APPROVED OF BY THE ENGINEER PRIOR TO FURTHER INSTALLATION OF LIFTS.
- THE COMPACTION AND TESTING OF THE BACKFILL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- BACKFILL SHALL CONSIST OF NON-EXPANSIVE, FREE-DRAINING, WELL GRADED SAND AND GRAVEL, FREE OF DEBRIS AND ORGANIC MATERIAL. EXCAVATED SITE MATERIALS MAY BE REUSED IF AT PROPER MOISTURE CONTENT AND FREE OF DEBRIS. NO FILL EXCAVATED FROM THE WATER MAY BE USED AS BACKFILL.
- CONTRACTOR WILL BE RESPONSIBLE FOR, AND SHALL SAFEGUARD AND PROTECT, ALL EXCAVATIONS AND EXISTING STRUCTURES DURING CONSTRUCTION BY PROPER SAFEGUARDS WHICH MAY INCLUDE BRACING.
- ALL EXCAVATIONS SHALL CONFORM WITH CURRENT OSHA REQUIREMENTS AND STANDARDS.
- THE DESIGN AND OPERATION OF THE GROUNDWATER CONTROLS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TIMBER FRAMING:

- ALL ASPECTS OF TIMBER CONSTRUCTION SHALL BE IN COMPLETE ACCORDANCE WITH THE REQUIREMENTS OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS), LATEST EDITION, AS PUBLISHED BY THE AMERICAN FOREST & PAPER ASSOCIATION AND THE AMERICAN WOOD COUNCIL.
- MATERIALS:
 - A. TIMBER - SOUTHERN YELLOW PINE, No.2 GRADE OR BETTER FOR ALL TIMBER FRAMING, INCLUDING PIERS. ALL TIMBER FRAMING SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH NOTE #3, BELOW.
 - B. HARDWARE - ALL STUDS, BOLTS, NUTS, AND WASHERS FOR TIMBER FRAMING SHALL BE ASTM A307, HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153, UNLESS OTHERWISE NOTED. PLATES, STRAPS, AND ANGLES SHALL BE ASTM A36 STEEL, HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED.
- ALL TIMBER FRAMING SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH "AMERICAN WOOD PRESERVERS ASS'N. (AWPA) STANDARDS, CURRENT EDITION", STANDARD U1, AS FOLLOWS:
 - A. ALL TIMBER FRAMING AT PIERS:
 - (1) AWPA USE CATEGORY: UC-5B (SALT WATER EXPOSURE)
 - (2) COMMODITY (U1, TABLE 3-1): LUMBER / TIMBERS
 - (3) CCA PRESERVATIVE TREATMENT WITH A RETENTION OF 2.5 LBS./CUF SHALL BE PROVIDED PER U1, TABLE 3.0
 - (4) NO SUBSTITUTIONS OF OTHER TREATMENTS SHALL BE PERMITTED. ALL FIELD CUTS SHALL BE FIELD-TREATED WITH PRESERVATIVE TREATMENT IN ACCORDANCE WITH APPLICABLE AWPA STANDARDS AND PROCEDURES.
- ALL STEEL HARDWARE, NAILS AND BOLTS SHALL BE OF SUFFICIENT LENGTH FOR THEIR INTENDED USE. ALL BOLTS SHALL INCLUDE FLAT WASHERS AND HEAVY HEX NUTS.
- ALL STEEL FASTENERS, BOLTS, WASHERS, NUTS, LAG BOLTS, PLATES, ANGLES AND OTHER CONNECTION HARDWARE SHALL BE HOT-DIP GALVANIZED PER ASTM STANDARDS A123 OR A153, WITH 20 OZ. OF ZINC PER SQUARE FOOT, UNLESS OTHERWISE SPECIFIED TO BE STAINLESS STEEL.
- ALL LAG BOLTS SHALL BE INSTALLED USING PILOT AND CLEARANCE HOLES IN CONNECTED TIMBER ELEMENTS IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF NDS SECTION 11.1.3. (G = 0.55)
- ALL SCREWS SHALL BE STAINLESS STEEL SIZES AS SHOWN, OR SUITABLE FOR THE CONNECTED ELEMENTS.
- PREFABRICATED TIMBER CONNECTORS:
 - A. CONTRACTOR SHALL SUBMIT COMPLETE DATA ON ALL PREFABRICATED TIMBER CONNECTORS FOR REVIEW BY THE ENGINEER. SUBMITTED DATA SHALL INCLUDE LOAD CAPACITIES FOR ALL CONNECTORS.
 - B. CONNECTOR SIZES AND TYPES SHALL BE AS SHOWN ON THE DESIGN DRAWINGS AND DETAILS.
 - C. CONNECTORS SHALL BE INSTALLED USING ALL FASTENERS AS RECOMMENDED BY THE MANUFACTURER FOR THE PUBLISHED LOAD CAPACITIES.
 - D. TWIST STRAPS FOR CONNECTION OF PIER JOISTS TO GIRDERS SHALL BE 14 ga. STAINLESS STEEL, TYPE 304, MANUFACTURER'S STANDARD ELECTRO-GALVANIZED OR HOT-DIP GALVANIZED CONNECTORS WILL NOT BE ACCEPTED.
 - (1) AT CONTRACTOR'S OPTION, AND WITH SPECIFIC APPROVAL OF THE ENGINEER, 1/2" THICK x 1/4" WIDE HOT-DIP GALVANIZED STEEL TWIST STRAPS MAY BE SUBSTITUTED FOR PREFABRICATED STAINLESS STEEL STRAPS.
 - (a) STRAPS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM STANDARD A123.
 - (b) HOT-DIP GALVANIZED TWIST STRAPS SHALL BE SECURED WITH A TOTAL OF (4) 3/8" O x 2" LAG BOLTS, (2) INTO EACH WOOD MEMBER. LAG BOLTS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM STANDARD A153.
- BOLTS LOCATED TOWARDS THE WATER SHALL BE RECESSED OR OTHERWISE PROTECTED AND SHALL NOT BE EXPOSED OR EXTEND PAST THE FACES OF THE TIMBER FRAMING TO REDUCE THE POSSIBILITY OF DAMAGE TO BOATS. SEE STRUCTURAL DETAILS FOR RECESSES AND BOLT PROTECTION.

TIMBER PILES:

- TIMBER PILES SHALL BE SOUTHERN YELLOW PINE MATERIAL, IN ACCORDANCE WITH ASTM D25, CLASS B.
- TIMBER PILES SHALL BE AIR-SEASONED PRIOR TO KILN DRYING.
- TIMBER PILES SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA STANDARD U1-05, AS FOLLOWS:
 - A. AWPA USE CATEGORY: UC5B (SALT WATER EXPOSURE)
 - B. COMMODITY (U1-05, TABLE 3-1): PILES, ROUND
 - C. TREATMENT CHEMICAL: CCA
 - D. MINIMUM RETENTION: 2.5 PCF (TABLE 3.0)
 - E. TREATMENT WITH CCA SHALL INCLUDE POST-TREATMENT FIXATION PROCESS.
- TIMBER PILES SHALL HAVE A BUTT DIAMETER OF 12" IN ALL LOCATIONS UNLESS OTHERWISE NOTED.
- LENGTH OF PILES SHALL BE AS REQUIRED TO ATTAIN TOP ELEVATIONS AS SHOWN ON THE DRAWINGS.
- TIMBER PILES SHALL BE DRIVEN TO THE DEPTHS REQUIRED TO ACHIEVE THE MINIMUM REQUIRED LOAD CAPACITIES AND MINIMUM PILE LENGTHS AS SPECIFIED ON THE PLANS AND AS NOTED ABOVE.
- ALL PILES SHALL BE DRIVEN BY AN APPROVED GRAVITY, STEAM, OR DIESEL HAMMER. PILE DRIVING HAMMER SHALL HAVE RATED ENERGY OF 15,000 FOOT-POUNDS PER BLOW (MINIMUM). JETTING OF PILES IS NOT PERMITTED. IF EXTREMELY HARD DRIVING MATERIALS EXIST AND CONDITIONS PERSIST, CONTRACTOR SHALL CONTACT THE ENGINEER TO DETERMINE POSSIBLE LIMITED USE OF JETTING.
- APPROPRIATE PILE CUSHIONING SHALL BE PROVIDED DURING PILE DRIVING, IN ACCORDANCE WITH THE PILE SUPPLIER'S RECOMMENDATIONS, AND AS APPROVED BY THE ENGINEER.
- PILES SHALL BE DRIVEN VERTICALLY (PLUMB). CONTRACTOR SHALL USE PILING GUIDE AS NECESSARY TO ENSURE PILING IS INSTALLED PLUMB.
- TOLERANCE FOR PILE SETTING AND HORIZONTAL LOCATION SHALL BE ±2" IN ANY DIRECTION. TOLERANCE FOR PLUMBNESS OF PILES SHALL BE 1" PER 10' OF PILE LENGTH.

COMPOSITE DECKING

- ALL DECKING SHALL BE 2x6 (NOMINAL) SECTIONS. DECKING SHALL BE SUPPLIED IN MIN. 12' LENGTH PIECES. SPLICES SHALL BE STAGGERED ON ADJACENT DECK PLANKS.
- ATTACHMENT OF DECKING TO WOOD STRUCTURE BELOW SHALL BE BY MEANS OF (2) PRE-DRILLED NO. 10 DECK SCREWS AT EACH JOIST. SCREWS SHALL BE STAINLESS STEEL.
- ALL DETAILS OF DECK INSTALLATION, INCLUDING GAPPING, ATTACHMENT, AND STORAGE AND HANDLING OF MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

STEEL SHEET PILES

- STEEL SHEET PILING SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

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|------------------------------|----------------------------|--|
| SHEET WIDTH (SINGLE) = | 18.0 IN. | |
| SHEET CORRUGATION HEIGHT = | 12.0 IN. | |
| SHEET THICKNESS = | 0.375 IN. | |
| SHEET CROSS SECTIONAL AREA = | 7.94 IN. ² /FT. | |
- ALL STEEL SHEET PILES SHALL BE SHOP COATED WITH THE FOLLOWING COATING SYSTEM:
 - A. FIRST AND SECOND COAT SHALL BE A LOW TEMPERATURE UNIVERSAL EPOXY COATING.
 - (1) DRY FILM THICKNESS: 10.0-12.0 MILS PER COAT
 - (2) SOLIDS CONTENT: 82% ±2% BY VOLUME
 - (3) FINISH: SEMI-GLOSS
 - B. THIRD COAT SHALL BE GLASS ALIPHATIC POLYURETHANE TOPCOAT.
 - (1) DRY FILM THICKNESS: 3.0 MILS
 - (2) SOLIDS CONTENT: 67% ±2% BY VOLUME
 - (3) FINISH: GLOSS
 - C. ALL ASPECTS OF SURFACE PREPARATION, COATING STORAGE, MIXING & HANDLING, COATING APPLICATION, AND CURING SHALL BE IN COMPLETE ACCORDANCE WITH THE COATING MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - D. COLOR OF FINAL COATING SHALL BE AS CLOSE TO MATCHING THE ADJACENT BULKHEADS AS POSSIBLE AS SELECTED FROM MANUFACTURER'S STANDARD COLOR SELECTION. FIRST, SECOND AND THIRD COAT SHALL ALL BE THE SAME COLOR.
 - E. COAL-TAR EPOXY COATING MAY NOT BE SUBSTITUTED ON SHEET PILES.
- REPAIR ALL OTHER AREAS OF COATING THAT WERE DAMAGED DURING DELIVERY AND INSTALLATION AT ALL PENETRATIONS AND BOLT HOLES IN SHEETING WITH ORIGINAL COATING SYSTEM OR THAT WERE DAMAGED IN INSTALLATION(3 COATS).
- ALL STEEL SHEET PILING SHALL BE ASTM A572 GRADE 50 STEEL (Fy = 50 KSI MINIMUM). ALL STEEL SHEET PILING SHALL BE HOT ROLLED.
- CONTRACTOR SHALL USE A DRIVING TEMPLATE FOR DRIVING STEEL SHEET PILING.
- DRIVING OF PILES IN PAIRS IS RECOMMENDED TO FACILITATE DRIVING AND HELP MAINTAIN VERTICALITY OF PILES.
- PILING SHOULD BE DRIVEN WITH THE BALL EDGE LEADING WHERE POSSIBLE, TO AVOID CLOGGING OF SOCKET END DURING DRIVING. WHEN CONDITIONS REQUIRE THAT SOCKET END LEAD, A BOLT OR SIMILAR OBJECT SHOULD BE PLACED IN BOTTOM OF SOCKET TO MINIMIZE CLOGGING.
- CUT OFF EXCESS MATERIAL ALONG TOP OF DRIVEN SHEET PILE AFTER INSTALLATION. HANDLING HOLES ARE ONLY ALLOWED IN THE TOP PORTION OF THE STEEL SHEET PILES THAT ARE TO BE CUT OFF AFTER INSTALLATION.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN", LATEST EDITION.
- ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING WELDS OR STANDARD, UNFINISHED BOLTS. CONNECTION MATERIALS SHALL BE AS FOLLOWS:
 - A. UNFINISHED BOLTS SHALL CONFORM TO ASTM A325.
 - B. WELDS SHALL BE IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS. ALL WELDING ELECTRODES SHALL BE E70 SERIES, UNLESS OTHERWISE NOTED.
- SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS WHO ARE CERTIFIED (AWS "STANDARD CERTIFICATION PROCEDURE") TO PERFORM THE TYPE OF WORK REQUIRED. WELDS SHALL CONFORM TO AWS D1.1, "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. PROVIDE MINIMUM WELD SIZES PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9th EDITION, WHEN WELD SIZES ARE NOT SHOWN.
- STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- THE DRAWINGS REPRESENT THE PERMANENT FRAMING AND FINAL DETAILS WHERE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, TEMPORARY BRACING, SHORING, AND RECOMMENDED ERECTION PROCEDURES.
- PAINTING & FINISHING:
 - A. U.O.N. STEEL SHAPES, PLATES, AND FABRICATIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. ALL STEEL SHALL ALSO BE COATED WITH COAL-TAR EPOXY AS DESCRIBED ON THIS SHEET, AND AS APPROVED BY THE ENGINEER.
 - B. U.O.N. ALL HARDWARE (NUTS, BOLTS, WASHERS, ETC.) SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. ALL HARDWARE SHALL ALSO BE COATED WITH COAL-TAR EPOXY AS DESCRIBED ON THIS SHEET, AND AS APPROVED BY THE ENGINEER. FIELD-INSTALLED AFTER INSTALLATION, TIGHTENING, AND ADJUSTMENT OF HARDWARE.



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| REV | DATE | DRAWN BY | DESCRIPTION |
|-----|----------|----------|---------------------------------|
| 1 | 1/12/20 | AEM | CONCEPTUAL DESIGN |
| 2 | 12/10/20 | AEM | SCHEMATIC DESIGN SUBMISSION |
| 3 | 02/09/21 | AEM | DESIGN DEVELOPMENT SUBMISSION |
| 4 | 03/02/21 | AEM | USER/FACILITY PERMIT SUBMISSION |

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 LICENSE NUMBER: GE39023
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 N.J. C.O.A. #: 24GA27986500

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| SCALE: AS SHOWN | DATE: 02/09/21 | DRAWN BY: AEM | CHECKED BY: RCM |
| PROJECT NUMBER: 20009556G | DRAWING NAME: C-DTLS | | |

SHEET TITLE
STRUCTURAL NOTES

SHEET NUMBER:
S-11

IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.

SEE SPECIFICATIONS FOR ADDITIONAL MATERIAL NOTES

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|-----|----------|----------|-------------------------------|
| 1 | 11/20/20 | ABM | CONCEPTUAL DESIGN |
| 2 | 12/10/20 | ABM | SCHEMATIC DESIGN SUBMISSION |
| 3 | 03/09/21 | ABM | DESIGN DEVELOPMENT SUBMISSION |
| 4 | 03/09/21 | ABM | USER NOTICE PERMIT SUBMISSION |

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 N.J. C.O.A. #: 24GA2796500

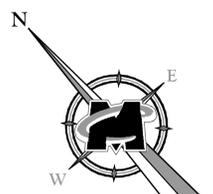
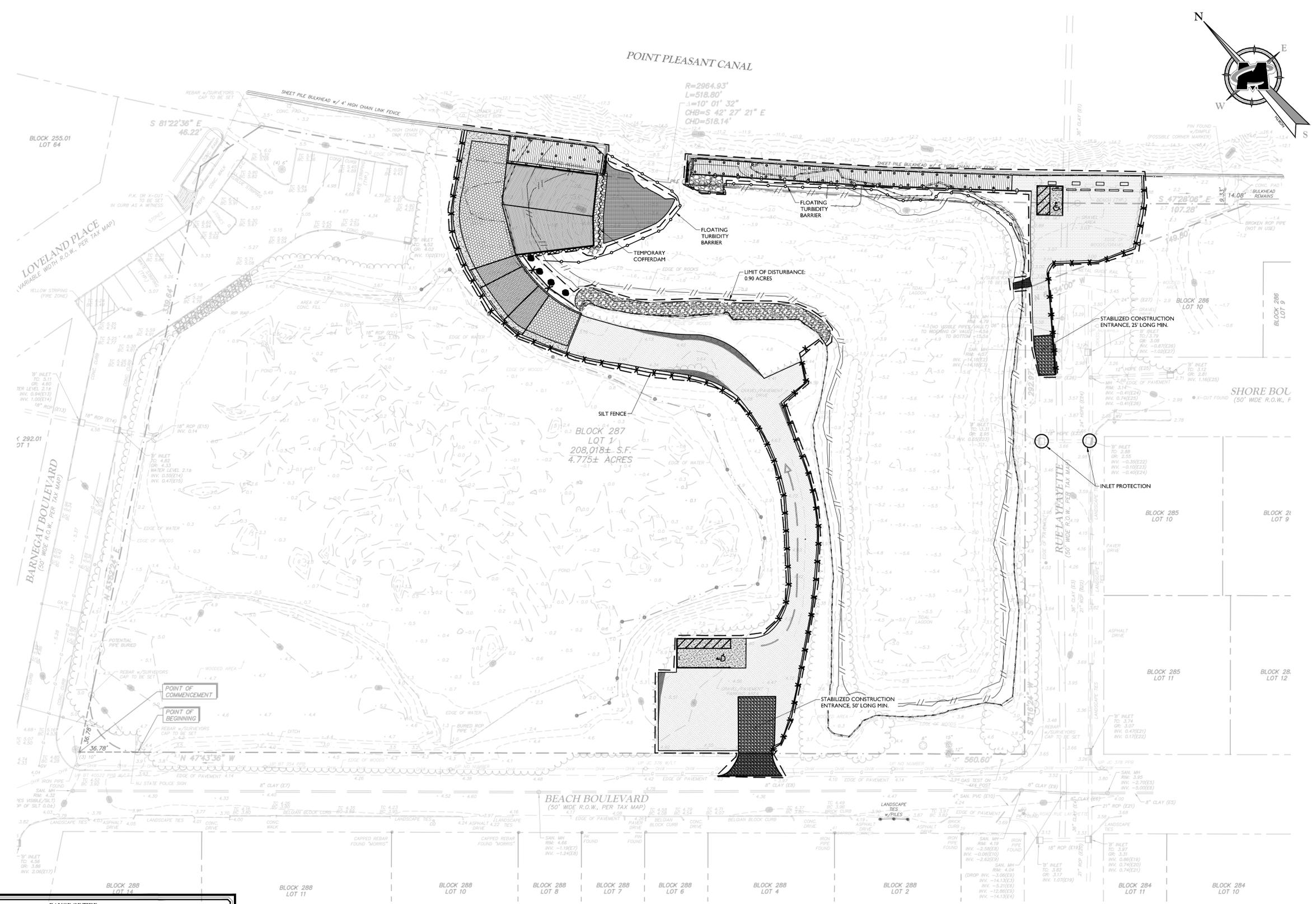
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| PROJECT NUMBER: | DRAWING NAME: | | |
| 20009556G | CLAYT | | |

SHEET TITLE
SOIL EROSION AND SEDIMENT CONTROL PLAN
 SHEET NUMBER
SE-01



| STATION | RANGE OF TIDE | | | |
|-----------------------------|------------------------|-------------------|--------------------------|---------------------|
| | BEAVER CREEK 1976 MLLW | BRIELLE 1976 MLLW | BEAVER CREEK 1976 NAVD88 | BRIELLE 1976 NAVD88 |
| MEAN HIGH HIGH WATER (MHHW) | 0.55 | 4.38 | -0.56 | 3.27 |
| MEAN HIGH WATER (MHW) | 0.36 | 4.05 | -0.75 | 2.94 |
| MEAN TIDAL LEVEL (MTL) | 0.22 | 2.11 | -0.89 | 1.00 |
| MEAN LOW WATER (MLW) | 0.06 | 0.16 | -1.05 | -0.95 |
| MEAN LOWER LOW WATER (MLLW) | 0.00 | 0.00 | -1.11 | -1.11 |

FEMA DATA (REVISED 2018):
 BASE FLOOD ELEVATION ZONE AE: 5.0'

SOIL EROSION AND SEDIMENT CONTROL PLAN
 SCALE: 1" = 30'-0"

LEGEND
 ——— LIMIT OF DISTURBANCE
 ——— FLOATING TURBIDITY BARRIER
 ——— INLET PROTECTION
 ——— SILT FENCE

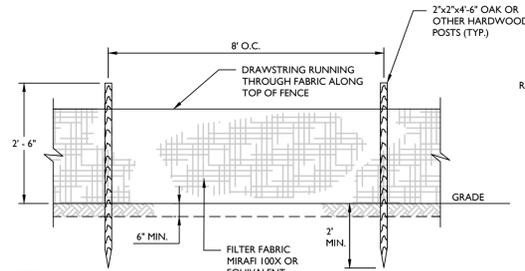


NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

OCEAN COUNTY SOIL CONSERVATION DISTRICT NOTES

- OCEAN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY LAND DISTURBANCE.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT. THE REVISED PLANS MUST MEET ALL CURRENT "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY," 7TH EDITION, JANUARY 2014, REVISED JULY 2017.
LINK TO 2014 STANDARDS: <http://www.state.nj.us/agriculture/divisions/anr/ncr/njerrosion.html>
- N.J.S.A. 424-39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES. ALL SITE WORK, AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- ANY STOCKPILES OR DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL WITHIN 14 DAYS, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 1 1/2 TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
- ANY STEEP SLOPES (3:1 OR GREATER) OR ANY EXISTING ROADWAYS RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES.
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD USING CLEAN CRUSHED ANGULAR STONE (ASTM C-33, SIZE No. 2 OR 3) AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS OF THE SITE.
- ALL SEDIMENT WASHED, DROPPED, SPILLED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES WILL BE REMOVED IMMEDIATELY.
- PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. AT THE TIME OF THE FINAL INSPECTION, YOU ARE REQUIRED TO PROVIDE CONFIRMATION THAT THE PROPER TYPE AND AMOUNT OF SEED, LIME AND FERTILIZER HAVE BEEN USED FOR PERMANENT STABILIZATION WORK. STRAW MULCH IS REQUIRED ON ALL SEEDING.
- AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDING PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. CONDUIT OUTLET PROTECTION IS NOT REQUIRED IN BASINS ACTING AS SEDIMENT BASINS DURING CONSTRUCTION.
- UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
- STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL CONSERVATION DISTRICT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6. STOCKPILES SHOULD BE SITUATED SO AS TO NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

OCEAN COUNTY SOIL CONSERVATION DISTRICT
714 LACEY ROAD, FORKED RIVER, NJ 08731, (609) 971-7002, FAX: (609) 971-3391, EMAIL: INFO@SOILDISTRICT.ORG, VERSION: FEBRUARY 19, 2019



- NOTES:**
- GEOTEXTILE TO BE FASTENED SECURELY TO FENCE POST BY USING WIRE TIES OR HOG RINGS. USE 4 TO 6 FASTENERS PER POST.
 - SPlicing OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
 - ALL SILT FENCE TO BE INSPECTED AND REMEDIAL MAINTENANCE PERFORMED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH RAINFALL. REMOVE THE SILT ACCUMULATION WHEN IT REACHES 1/3 OF THE FENCE FABRIC HEIGHT.
 - FOR EVERY 100 FEET OF SILT FENCE, OR 1/4 ACRE OF DRAINAGE AREA, PROVIDE AN OVERFLOW POINT TO REDUCE PONDING IN FRONT OF THE FENCE.
 - IF SPACE PERMITTED, LOCATE SILT FENCE 10' AWAY FROM TOE OF SLOPE IF THE SLOPE IS STEEPER THAN 1:1.

SILT FENCE DETAIL

CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE STORMWATER POLLUTION PREVENTION PLAN (SPPP)

- THE CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE SPPP CONSISTS OF THE REQUIREMENTS IN 2, 3, AND 4, BELOW. THESE REQUIREMENTS BECAME OPERATIVE ON MARCH 3, 2004 AND APPLY TO CONSTRUCTION ACTIVITIES THAT COMMENCE ON OR AFTER MARCH 3, 2004. ANY NEW CONSTRUCTION ACTIVITY FOR WHICH AN RFA IS SUBMITTED ON OR AFTER MARCH 3, 2004 OR WHICH RECEIVE AUTOMATIC RENEWAL OF AUTHORIZATION UNDER THIS PERMIT AFTER MARCH 3, 2004 ALSO SHALL COMPLY WITH THESE REQUIREMENTS.
- MATERIAL MANAGEMENT TO PREVENT OR REDUCE WASTE - ANY PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTIFREEZE, PAINTS AND PAINT THINNERS, CLEANING SOLVENTS AND ACIDS, DETERGENTS, CHEMICAL ADDITIVES, AND CONCRETE CURING COMPOUNDS SHALL BE STORED IN CONTAINERS IN A DRY COVERED AREA. MANUFACTURERS' RECOMMENDED APPLICATION RATES, USES, AND METHODS SHALL BE STRICTLY FOLLOWED TO THE EXTENT NECESSARY TO PREVENT OR MINIMIZE THE PRESENCE OF WASTE FROM SUCH MATERIALS IN THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. (THE PRECEDING SENTENCE DOES NOT APPLY TO ANY MANUFACTURERS' RECOMMENDATIONS ABOUT FERTILIZER OR OTHER MATERIAL THAT CONFLICT WITH THE EROSION AND SEDIMENT CONTROL COMPONENT OF THE FACILITY'S SPPP.)
- WASTE HANDLING - THE FOLLOWING REQUIREMENTS APPLY ONLY TO CONSTRUCTION SITE WASTE THAT HAS THE POTENTIAL TO BE TRANSPORTED BY THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. THE HANDLING AT THE CONSTRUCTION SITE OF WASTE BUILDING MATERIAL AND RUBBLE AND OTHER CONSTRUCTION SITE WASTE MAY BE FOUND IN CONSTRUCTION AND SANITARY WASTES, SHALL CONFORM WITH THE STATE SOLID WASTE MANAGEMENT ACT, N.J.S.A. 13:1E-1 ET SEQ., AND ITS IMPLEMENTING RULES AT N.J.A.C. 7:26, 7:26A, AND 7:26G; THE NEW JERSEY PESTICIDE CONTROL CODE AT N.J.A.C. 7:30; THE STATE LITTER STATUTE (N.J.S.A. 13:1E-99.3); AND OSHA REQUIREMENTS FOR SANITATION AT 29 C.F.R. 1926 EXCEPT WHERE SUCH CONFORMANCE IS NOT RELEVANT TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. CONSTRUCTION SITES SHALL HAVE ONE OR MORE DESIGNATED WASTE COLLECTION AREAS ONSITE OR ADJACENT TO THE SITE, AND AN ADEQUATE NUMBER OF CONTAINERS (WITH LIDS OR COVERS) FOR WASTE. WASTE SHALL BE COLLECTED FROM SUCH CONTAINERS BEFORE THEY OVERFLOW, AND SPILLS AT SUCH CONTAINERS SHALL BE CLEANED UP IMMEDIATELY.
 - CONSTRUCTION SITE WASTES INCLUDE BUT ARE NOT LIMITED TO:
 - "CONSTRUCTION AND DEMOLITION WASTE," AS DEFINED IN N.J.A.C. 7:26-1.4 AS FOLLOWS: "WASTE BUILDING MATERIAL AND RUBBLE RESULTING FROM CONSTRUCTION, REMODELING, REPAIR, AND DEMOLITION OPERATIONS ON HOUSES, COMMERCIAL BUILDINGS, PAVEMENTS AND OTHER STRUCTURES; THE FOLLOWING MATERIALS MAY BE FOUND IN CONSTRUCTION AND DEMOLITION WASTE TREATED AND UNTREATED WOOD SCRAP, TREE PARTS, TREE STUMPS AND BRUSH, CONCRETE, ASPHALT, BRICKS, BLOCKS AND OTHER MASONRY; PLASTER AND WALLBOARD, ROOFING MATERIALS, CORRUGATED CARBOABOND AND MISCELLANEOUS PAPER; FERROUS AND NON-FERROUS METAL; NON-ASBESTOS BUILDING INSULATION; PLASTIC SCRAP, DIRTY CARPETS AND PADDING, GLASS (WINDOW AND DOOR); AND OTHER MISCELLANEOUS MATERIALS; BUT SHALL NOT INCLUDE OTHER SOLID WASTE TYPES."
 - ANY WASTE BUILDING MATERIAL AND RUBBLE RESULTING FROM SUCH OPERATIONS THAT IS HAZARDOUS FOR PURPOSES OF N.J.A.C. 7:26G (THE HAZARDOUS WASTE RULES).
 - DISCARDED (INCLUDING SPILLED) PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTIFREEZE, PAINTS AND PAINT THINNERS, PAINT CHIPS AND SANDBLASTING GRITS, CLEANING SOLVENTS, ACIDS FOR CLEANING MASONRY SURFACES, DETERGENTS, CHEMICAL ADDITIVES USED FOR SOIL STABILIZATION (E.G., CALCIUM CHLORIDE), AND CONCRETE CURING COMPOUNDS.
 - OTHER "LITTER," AS DEFINED AT N.J.S.A. 13:1E-215D AS FOLLOWS: "ANY USED OR UNCONSUMED SUBSTANCE OR WASTE MATERIAL, WHICH WHEN DISCARDED WHETHER MADE OF ALUMINUM, GLASS, PLASTIC, RUBBER, PAPER, OR OTHER NATURAL OR SYNTHETIC MATERIAL, OR ANY COMBINATION THEREOF, INCLUDING, BUT NOT LIMITED TO, ANY BOTTLE, JAR OR CAN, OR ANY TOP, CAP OR DETACHABLE TAB OF ANY BOTTLE, JAR OR CAN, ANY UNLIGHTED CIGARETTE, CIGAR, MATCH OR ANY FLAMING OR GLOWING MATERIAL OR ANY GARBAGE, TRASH, REFUSE, DEBRIS, RUBBISH, GRASS CLIPPINGS OR OTHER LAWN OR GARDEN WASTE, NEWSPAPERS, MAGAZINES, GLASS, METAL PLASTIC OR PAPER CONTAINERS OR OTHER PACKAGING OR CONSTRUCTION MATERIAL, BUT DOES NOT INCLUDE THE WASTE OF THE PRIMARY PROCESSES OF MINING OR OTHER EXTRACTION PROCESSES, LOGGING, SAWMILLING, FARMING OR MANUFACTURING."
 - SANITARY SEWAGE AND SEPTAGE
 - CONTAMINATED SOILS ENCOUNTERED OR DISCOVERED DURING EARTHMOVING ACTIVITIES OR DURING THE CLEANUP OF A LEAK OR DISCHARGE OF A HAZARDOUS SUBSTANCE.
 - CONCRETE WASHOUT - CONCRETE WASHOUT ONSITE IS PROHIBITED OUTSIDE DESIGNATED AREAS WASHOUT ACTIVITIES INCLUDE, BUT NOT LIMITED TO, THE WASHING OF TRUCKS, CHUTES, HOSES, MIXERS, HOPPERS, AND TOOLS.
 - DESIGNATED WASHOUT AREAS SHALL BE LINED AND BERMED TO PREVENT DISCHARGES TO SURFACE AND GROUNDWATER.
 - HARDENED CONCRETE FROM THE CONCRETE WASHOUT WASHOUT SHALL BE REMOVED AND PROPERLY DISPOSED OF.
 - THE CONCRETE WASHOUT AREA SHALL BE CLEARLY DESIGNATED WITH A SIGN INDICATING THE AREAS USES.
 - SANITARY SEWAGE/SEPTAGE DISPOSAL - DISCHARGES OF RAW SANITARY SEWAGE OR SEPTAGE ONSITE ARE STRICTLY PROHIBITED. ADEQUATE FACILITIES WITH PROPER DISPOSAL SHALL BE PROVIDED AND MAINTAINED ONSITE OR ADJACENT TO THE SITE FOR ALL WORKERS AND OTHER SANITARY NEEDS.
 - SPILLS; DISCHARGES OF HAZARDOUS SUBSTANCES; FEDERALLY REPORTABLE RELEASES.
 - SPILL KITS SHALL BE AVAILABLE ONSITE OR ADJACENT TO THE SITE FOR ANY MATERIALS THAT ARE LISTED IN 2, ABOVE AND USED OR APPLIED ONSITE. ALL SPILLS OF SUCH MATERIAL SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. CLEANED UP MATERIALS SHALL BE PROPERLY DISPOSED OF.
 - DISCHARGES OF HAZARDOUS SUBSTANCES (AS DEFINED IN N.J.A.C. 7:1E-1.6) IN CONSTRUCTION SITE WASTES ARE SUBJECT TO THE PROVISIONS OF THE SPILL COMPENSATION AND CONTROL ACT, N.J.S.A. 58:10-23.11 ET SEQ., AND OF DEPARTMENT RULES FOR DISCHARGES OF PETROLEUM AND OTHER HAZARDOUS SUBSTANCES AT N.J.A.C. 7:1E. NO DISCHARGE OF HAZARDOUS SUBSTANCES RESULTING FROM AN ONSITE SPILL SHALL BE DEEMED TO BE "PURSUANT TO AND IN COMPLIANCE WITH [THIS PERMIT]" WITHIN THE MEANING OF THE SPILL COMPENSATION AND CONTROL ACT AT N.J.S.A. 58:10-23.11C.
 - RELEASES IN EXCESS OF REPORTABLE QUANTITIES (RQ) ESTABLISHED UNDER 40 C.F.R. 110, 117, AND 302 THAT OCCUR WITHIN A 24-HR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800 424-8802).

SPPP REQUIRED INSPECTIONS AND REPORTS

A COPY OF THE AUTHORIZATION SHALL BE POSTED ONSITE AT A SAFE, PUBLICLY ACCESSIBLE LOCATION IN CLOSE PROXIMITY OF THE CONSTRUCTION SITE AT ALL TIMES UNTIL A NOTICE OF COMPLETION HAS BEEN ISSUED. THE PERMITTEE SHALL POST THE NJDEP HOTLINE NUMBER (1-877-WARN-DEP) WITH THE COPY OF THE AUTHORIZATION.

- ROUTINE INSPECTIONS
 - THE PERMITTEE SHALL CONDUCT AND DOCUMENT WEEKLY (MINIMUM) INSPECTIONS OF THE FACILITY TO IDENTIFY AREAS CONTRIBUTING TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT AND EVALUATE WHETHER THE STORMWATER POLLUTION PREVENTION PLAN (SPPP) IDENTIFIED UNDER E.I. OF THE CONSTRUCTION ACTIVITY STORMWATER (GP) PART 1 NARRATIVE REQUIREMENTS, INCLUDING THIS SOIL EROSION AND SEDIMENT CONTROL PLAN IS BEING PROPERLY IMPLEMENTED AND MAINTAINED, OR WHETHER ADDITIONAL MEASURES ARE NEEDED TO IMPLEMENT THE SPPP.
 - ONCE INSTALLATION OF ANY REQUIRED OR OPTIONAL EROSION CONTROL DEVICE OR MEASURE HAS BEEN IMPLEMENTED, ROUTINE INSPECTIONS, MINIMUM WEEKLY, OF EACH MEASURE SHALL BE PERFORMED BY THE CONTRACTOR'S INSPECTION PERSONNEL AND THE RESULTS RECORDED TO INVENTORY AND REPORT THE CONDITION OF EACH MEASURE TO ASSIST IN MAINTAINING THE EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER.
 - THESE REPORT FORMS SHALL BECOME AN INTEGRAL PART OF THE SPPP AND SHALL BE MADE READILY ACCESSIBLE TO GOVERNMENTAL INSPECTION OFFICIALS, THE OPERATOR'S ENGINEER, AND THE OPERATOR FOR REVIEW UPON REQUEST DURING VISITS TO THE PROJECT SITE. IN ADDITION, COPIES OF THE REPORTS SHALL BE PROVIDED TO ANY OF THESE PERSONS, UPON REQUEST, VIA MAIL OR FACSIMILE TRANSMISSION.
 - OTHER RECORD-KEEPING REQUIREMENTS

- THE CONTRACTOR SHALL KEEP THE FOLLOWING RECORDS RELATED TO CONSTRUCTION ACTIVITIES AT THE SITE:
- DATES WHEN MAJOR GRADING ACTIVITIES OCCUR AND THE AREAS WHICH WERE GRADED
 - DATES AND DETAILS CONCERNING THE INSTALLATION OF STRUCTURAL CONTROLS
 - DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA
 - DATES WHEN AN AREA IS STABILIZED, EITHER TEMPORARILY OR PERMANENTLY
 - DATES OF RAINFALL AND THE AMOUNT OF RAINFALL
 - DATES AND DESCRIPTIONS OF THE CHARACTER AND AMOUNT OF AN SPILLS OF HAZARDOUS MATERIALS
 - RECORDS OF REPORTS FILED WITH REGULATORY AGENCIES IF REPORTABLE QUANTITIES OF HAZARDOUS MATERIALS SPILLED

- STORMWATER POLLUTION PREVENTION PLAN (SPPP)
 - CONSTRUCTION ACTIVITY THAT WILL RESULT IN A STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT SHALL BE EXECUTED ONLY IN ACCORDANCE WITH A SPPP THAT CONSISTS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, AND (WHERE APPLICABLE) THE CONSTRUCTION SITE WASTE CONTROL COMPONENT SET FORTH IN ATTACHMENT 8 TO THE GENERAL PERMIT. A COPY OF THIS SPPP SHALL BE RETAINED BY THE PERMITTEE FOR A PERIOD OF AT LEAST FIVE (5) YEARS AFTER THE COMPLETION OF CONSTRUCTION. THIS PERIOD MAY BE EXTENDED BY WRITTEN REQUEST OF THE DEPARTMENT AT ANY TIME (SEE N.J.A.C. 7:14A-6.6).

- REPORTS OF NONCOMPLIANCE
 - ALL INSTANCES OF NONCOMPLIANCE NOT REPORTED UNDER N.J.A.C. 7:14A-6.10 SHALL BE REPORTED TO THE DEPARTMENT ANNUALLY.
- NOTIFICATION OF COMPLETION

- THE SOIL CONSERVATION DISTRICT WILL PROVIDE THE DEPARTMENT A COPY OF THE REPORT OF COMPLIANCE ISSUED UNDER N.J.A.C. 2:90-I FOR COMPLETED CONSTRUCTION ACTIVITIES, EXCEPT SINGLE FAMILY HOME CONSTRUCTION UNDER B. BELOW. THE REPORT OF COMPLIANCE SHALL SERVE AS THE NOTIFICATION OF COMPLETION
- THE BUILDER OF A SINGLE FAMILY HOME THAT IS AUTHORIZED UNDER THIS PERMIT, BUT NOT WITHIN THE DEFINITION OF "PROJECT AT N.J.S.A. 424-41G, SHALL SEND A COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE SOIL CONSERVATION DISTRICT. THE SOIL CONSERVATION DISTRICT WILL PROVIDE A COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE DEPARTMENT, WHICH WILL SERVE AS NOTIFICATION OF COMPLETION.
- THE DOT SHALL PROVIDE WRITTEN NOTIFICATION TO THE DEPARTMENT WHEN DOT CERTIFIED PROJECTS ARE COMPLETED.

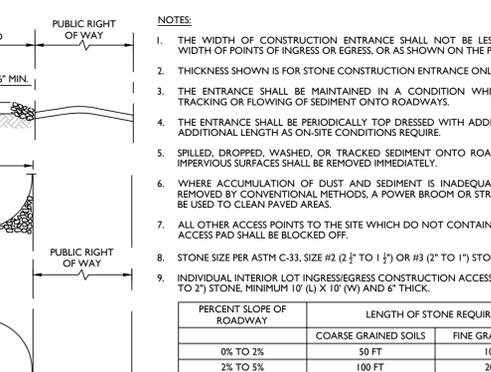
- COPIES OF ALL OF THE ABOVE, INCLUDING THE SPPP (WITH THE CERTIFIED PLAN), THE CERTIFICATION, AUTHORIZATION UNDER NJDES CONSTRUCTION ACTIVITY STORMWATER GENERAL PERMIT, ALL CORRESPONDENCE AND NOTES TO AND FROM THE NJDEP AND SOIL CONSERVATION DISTRICT (OR DESIGNATED MUNICIPALITY) SHALL BE MAINTAINED ON-SITE.

TOPSOILING NOTES

- TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
- A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5" (MINIMUM 4") FIRMED IN PLACE IS REQUIRED.
- 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 TO BE PERFORMED.

| PERCENT SLOPE OF ROADWAY | LENGTH OF STONE REQUIRED |
|--------------------------|---|
| 0% TO 2% | COARSE GRAINED SOILS 50 FT FINE GRAINED SOILS 100 FT |
| 2% TO 5% | 100 FT 200 FT |
| > 5% | ENTIRE SURFACE STABILIZED WITH HMA BASE COURSE, MIX 1-2 |

- NOTES:**
- THE WIDTH OF CONSTRUCTION ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF POINTS OF INGRESS OR EGRESS, OR AS SHOWN ON THE PLAN.
 - THICKNESS SHOWN IS FOR STONE CONSTRUCTION ENTRANCE ONLY.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS.
 - THE ENTRANCE SHALL BE PERIODICALLY TOP DRESSED WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS ON-SITE CONDITIONS REQUIRE.
 - SPILLED, DROPPED, WASHED, OR TRACKED SEDIMENT ONTO ROADWAYS OR OTHER IMPERVIOUS SURFACES SHALL BE REMOVED IMMEDIATELY.
 - WHERE ACCUMULATION OF DUST AND SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER SHALL BE USED TO CLEAN PAVED AREAS.
 - ALL OTHER ACCESS POINTS TO THE SITE WHICH DO NOT CONTAIN A CONSTRUCTION ACCESS PAD SHALL BE BLOCKED OFF.
 - STONE SIZE PER ASTM C-33, SIZE #2 (2 1/2" TO 1 1/2") OR #3 (2" TO 1") STONE.
 - INDIVIDUAL INTERIOR LOT INGRESS/EGRESS CONSTRUCTION ACCESS SHALL HAVE # 3 (1" TO 2") STONE, MINIMUM 10' (L) X 10' (W) AND 6" THICK.



STABILIZED CONSTRUCTION ACCESS DETAIL

DUST CONTROL

DUST CONTROL METHODS:

- APPLY MULCHES OR VEGETATIVE COVER AS PER NJ SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- TILL AND ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EROSION MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- SPRINKLE THE SITE UNTIL THE SURFACE IS WET.
- ERECT BARRIERS SUCH AS SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- APPLY CALCIUM CHLORIDE 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. NOT SUITABLE ON STEEPER SLOPES NEAR THE STREAMS OR POTENTIALLY ACCUMULATE AROUND PLANTS.
- COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.
- USE SPRAY-ON ADHESIVE ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. MATERIALS AS FOLLOWS:

| MATERIAL | WATER DILUTION | 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 MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, P. 26-1 | | |
| ACIDULATED SOY BEAN SOAF STICK | NONE | COARSE SPRAY | 1200 |

OCEAN COUNTY SOIL COMPACTION MITIGATION NOTES

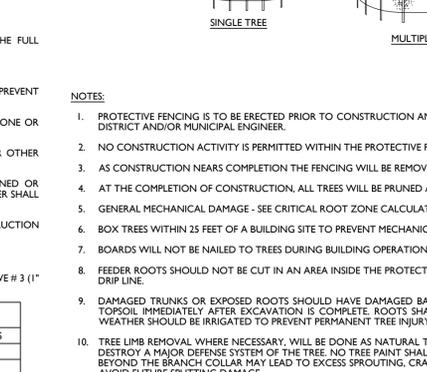
- PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.
- SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE 6" MINIMUM DEPTH) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTIONS.

TOPSOILING NOTES

- TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
- A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5" (MINIMUM 4") FIRMED IN PLACE IS REQUIRED.
- 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 TO BE PERFORMED.

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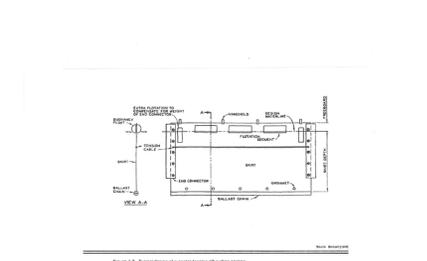
- NOTES:**
- PROTECTIVE FENCING IS TO BE ERRECTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE LANDSCAPE ARCHITECT, SOIL CONSERVATION DISTRICT AND/OR MUNICIPAL ENGINEER.
 - NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE PROTECTIVE FENCING.
 - AS CONSTRUCTION NEARS COMPLETION THE FENCING WILL BE REMOVED AS DIRECTED.
 - AT THE COMPLETION OF CONSTRUCTION, ALL TREES WILL BE PRUNED AS NECESSARY TO CORRECT ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY.
 - GENERAL MECHANICAL DAMAGE - SEE CRITICAL ROOT ZONE CALCULATION (CRZ) FOR CORRECT PLACEMENT OF TREE PROTECTION.
 - BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OR OTHER BARRIER SHOULD BE INSTALLED BEYOND THE CRITICAL ROOT ZONE.
 - BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
 - FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE PROTECTED ROOT ZONE (PRZ) OR CRITICAL ROOT ZONE (CRZ). TREE ROOT SYSTEMS COMMONLY EXTEND BEYOND THE DRIP LINE.
 - DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR CERTIFIED TREE EXPERT.
 - TREE LIMB REMOVAL WHERE NECESSARY, WILL BE DONE AS NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH COLLAR. THERE SHOULD BE NO FLUSH CUTS. FLUSH CUTS DESTROY A MAJOR DEFENSE SYSTEM OF THE TREE. NO TREE PAINT SHALL BE APPLIED. ALL CUTS SHALL BE MADE AT THE OUTSIDE EDGE OF THE BRANCH COLLAR. CUTS MADE TOO FAR BEYOND THE BRANCH COLLAR MAY LEAD TO EXCESS SPRING, CRACKS AND ROT. REMOVAL OF A "V" CROTCH SHOULD BE CONSIDERED FOR FREE STANDING SPECIMEN TREES TO AVOID FUTURE SPLITTING DAMAGE.
 - CRITICAL ROOT ZONE (CRZ) OR PROTECTED ROOT ZONE (PRZ) CALCULATION: MEASURE DBH OF THE TREE (DIAMETER OF TREE IN BREAST HEIGHT OR 4.5' ABOVE GROUND ON THE UPHILL SIDE) IN INCHES. CRZ OR PRZ = DBH TIMES 1.5 (FOR OLD/UNHEALTHY/SENSITIVE TREES) OR DBH X 1.0 (FOR YOUNG/HEALTHY/TOLERANT TREES), EXPRESS IN FEET.



TEMPORARY TREE PROTECTION DETAIL

SEQUENCE OF COMMERCIAL CONSTRUCTION

- CLEARING OF ENTRANCE AND LIMIT OF DISTURBANCE FOR INSTALLATION OF SILT FENCE, FLOATING TURBIDITY BARRIER AND CONSTRUCTION ENTRANCE (1 WEEK).
- CLEARING AND EXCAVATION (2 WEEKS).
- CONSTRUCT JOINT PLANTED RETEWMENT AND GOOSE EXCLUSION NETTING (3 WEEKS).
- CONSTRUCT BULKHEAD RETURNS (1 WEEK).
- CONSTRUCT TIMBER DOCKS (4 WEEKS)
- CONSTRUCT CONCRETE BOAT RAMP (3 WEEKS).
- CONSTRUCT BEACH AREA/POND OVERFLOW (3 WEEKS).
- CONSTRUCT ITEMS REQUIRED FOR ADA COMPLIANCE (2 WEEKS).
- ROADWAY RECONSTRUCTION AND PARKING LOT SURFACE RECONSTRUCTION (4 WEEKS).
- COMPLETE FINAL LANDSCAPING AND REMAINING MISCELLANEOUS ITEMS (2 WEEKS).
- REMOVE TEMPORARY ACCESS PROTECTION, SILT FENCE, AND FLOATING TURBIDITY BARRIER AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.



FLOATING TURBIDITY BARRIER DETAIL

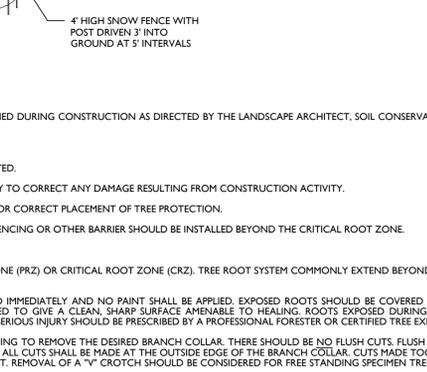
- PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.
- SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE 6" MINIMUM DEPTH) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTIONS.

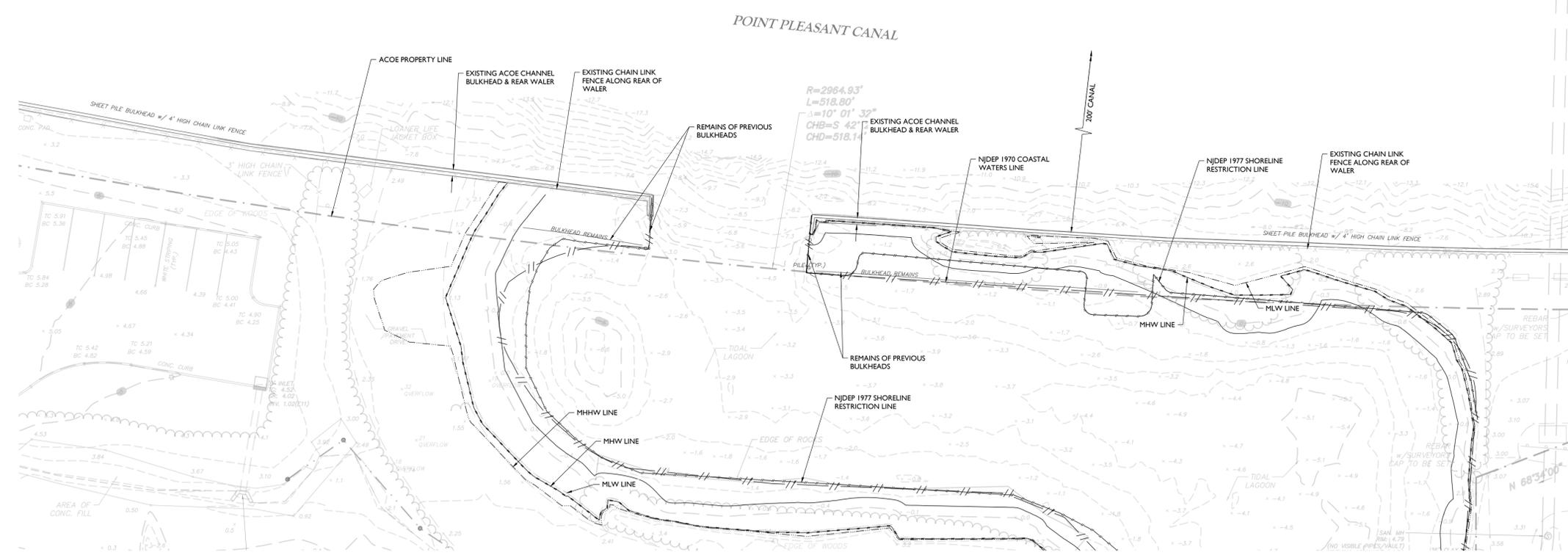
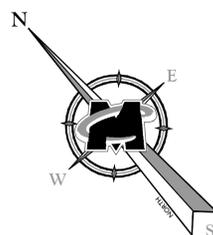
TOPSOILING NOTES

- TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
- A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5" (MINIMUM 4") FIRMED IN PLACE IS REQUIRED.
- 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 TO BE PERFORMED.

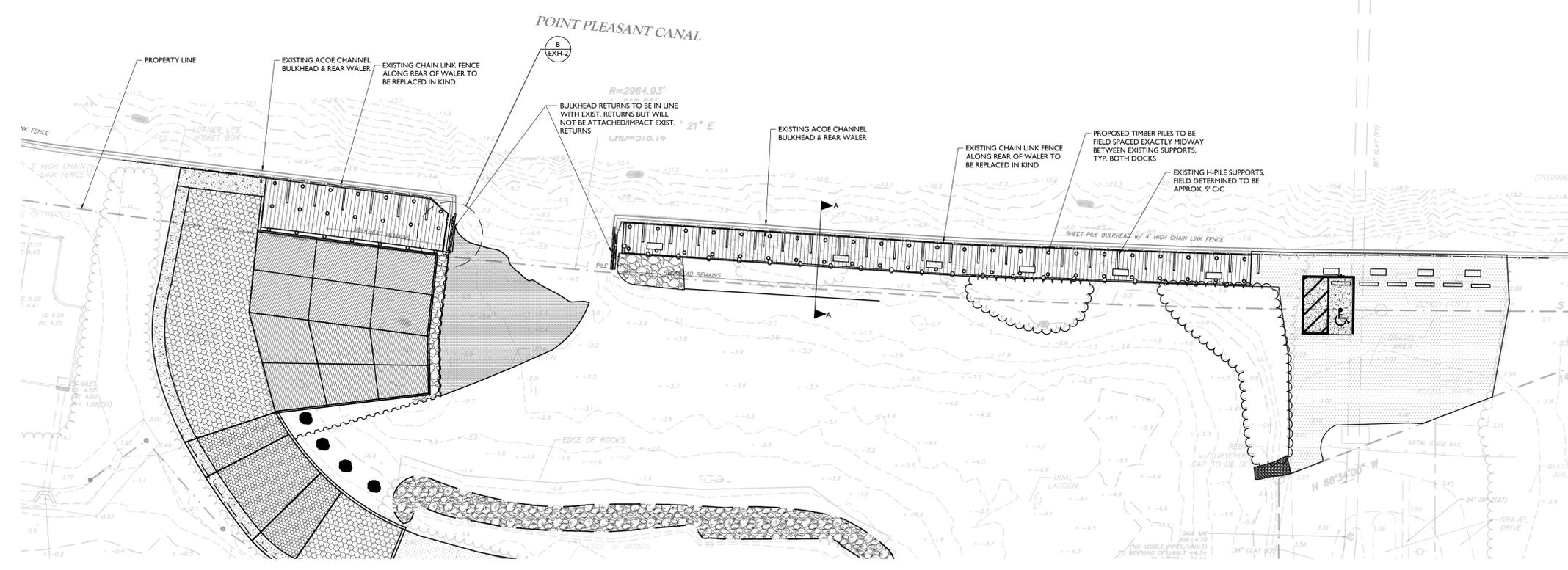
| PERCENT SLOPE OF ROADWAY | LENGTH OF STONE REQUIRED |
|--------------------------|---|
| 0% TO 2% | COARSE GRAINED SOILS 50 FT FINE GRAINED SOILS 100 FT |
| 2% TO 5% | 100 FT 200 FT |
| > 5% | ENTIRE SURFACE STABILIZED WITH HMA BASE COURSE, MIX 1-2 |

- NOTES:**
- PROTECTIVE FENCING IS TO BE ERRECTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE LANDSCAPE ARCHITECT, SOIL CONSERVATION DISTRICT AND/OR MUNICIPAL ENGINEER.
 - NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE PROTECTIVE FENCING.
 - AS CONSTRUCTION NEARS COMPLETION THE FENCING WILL BE REMOVED AS DIRECTED.
 - AT THE COMPLETION OF CONSTRUCTION, ALL TREES WILL BE PRUNED AS NECESSARY TO CORRECT ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY.
 - GENERAL MECHANICAL DAMAGE - SEE CRITICAL ROOT ZONE CALCULATION (CRZ) FOR CORRECT PLACEMENT OF TREE PROTECTION.
 - BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OR OTHER BARRIER SHOULD BE INSTALLED BEYOND THE CRITICAL ROOT ZONE.
 - BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
 - FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE PROTECTED ROOT ZONE (PRZ) OR CRITICAL ROOT ZONE (CRZ). TREE ROOT SYSTEMS COMMONLY EXTEND BEYOND THE DRIP LINE.
 - DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR CERTIFIED TREE EXPERT.
 - TREE LIMB REMOVAL WHERE NECESSARY, WILL BE DONE AS NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH COLLAR. THERE SHOULD BE NO FLUSH CUTS. FLUSH CUTS DESTROY A MAJOR DEFENSE SYSTEM OF THE TREE. NO TREE PAINT SHALL BE APPLIED. ALL CUTS SHALL BE MADE AT THE OUTSIDE EDGE OF THE BRANCH COLLAR. CUTS MADE TOO FAR BEYOND THE BRANCH COLLAR MAY LEAD TO EXCESS SPRING, CRACKS AND ROT. REMOVAL OF A "V" CROTCH SHOULD BE CONSIDERED FOR FREE STANDING SPECIMEN TREES TO AVOID FUTURE SPLITTING DAMAGE.
 - CRITICAL ROOT ZONE (CRZ) OR PROTECTED ROOT ZONE (PRZ) CALCULATION: MEASURE DBH OF THE TREE (DIAMETER OF TREE IN BREAST HEIGHT OR 4.5' ABOVE GROUND ON THE UPHILL SIDE) IN INCHES. CRZ OR PRZ = DBH TIMES 1.5 (FOR OLD/UNHEALTHY/SENSITIVE TREES) OR DBH X 1.0 (FOR YOUNG/HEALTHY/TOLERANT TREES), EXPRESS IN FEET.





EXISTING CONDITIONS PLAN
 SCALE: 1" = 30'-0"



PROPOSED PLAN
 SCALE: 1" = 30'-0"

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Richard C. Maloney
 NEW JERSEY LICENSED PROFESSIONAL ENGINEER
 LICENSE NUMBER: GE39023
 MASER CONSULTING, INC.
 N.J. C.O.A. #: 24G2796500

BOAT RAMP AND FISHING AREA
 PROJECT No. P1225-00
 FOR
POINT PLEASANT WMA
USACE SECTION 408 TECHNICAL ANALYSIS
 BEACH BOULEVARD
 POINT PLEASANT
 OCEAN COUNTY
 STATE OF NEW JERSEY

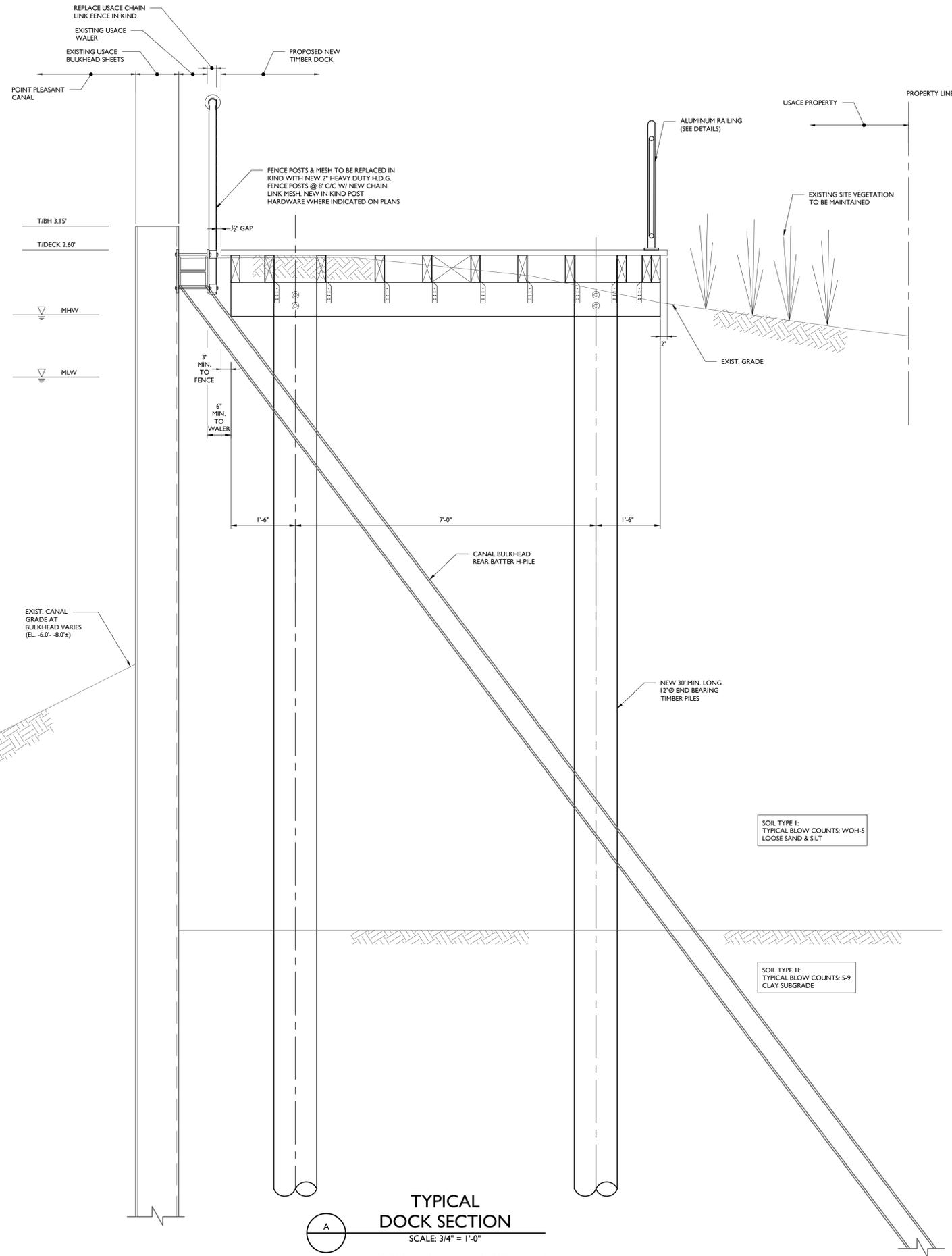
RED BANK OFFICE
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 331 Newman Springs Road
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 Red Bank, NJ 07701
 Phone: 732.383.1950
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| SCALE: | DATE: | DRAWN BY: | CHECKED BY: |
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| PROJECT NUMBER: | | DRAWING NAME: | |
| 20009556G | | C-LAYT | |

EXHIBIT PLANS & INFORMATION

SHEET NUMBER:
EXH-1

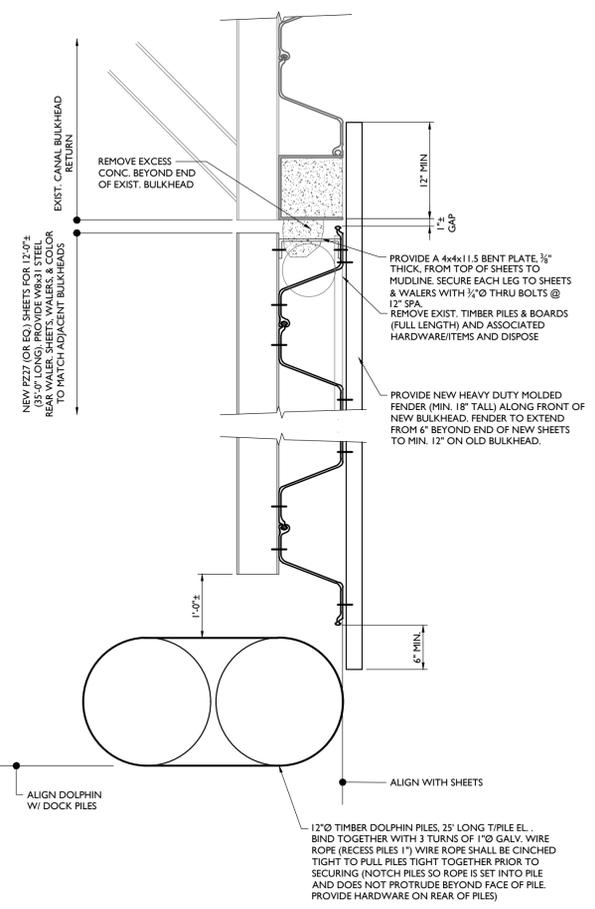




TYPICAL DOCK SECTION
SCALE: 3/4" = 1'-0"
10' WIDE DOCK SHOWN - 16' WIDE DOCK SIMILAR

SOIL TYPE I:
TYPICAL BLOW COUNTS: WOH-5
LOOSE SAND & SILT

SOIL TYPE II:
TYPICAL BLOW COUNTS: 5-9
CLAY SUBGRADE



**BULKHEAD RETURNS/
TIE-IN DETAIL**
SCALE: 3/4" = 1'-0"

- SCOPE OF WORK - BULKHEAD RETURNS**
- RETURNS ARE COMPLETELY INDEPENDENT STRUCTURES FROM EXISTING ACOE BULKHEADS.
 - SHEETS WILL BE DRIVEN WITH 1" GAP BETWEEN EXISTING SHEETS AND NEW.
 - THE FENDER SYSTEM WILL EXTEND BEYOND THE FACE OF THE EXISTING BULKHEAD RETURNS BUT WILL NOT BE FASTENED TO ACOE BULKHEAD (WILL ONLY BE FASTENED TO NEW SHEETS). NEW FENDER SYSTEM WILL PROTECT ENDS OF EXISTING ACOE SHEETS WITHOUT IMPACTING THE STRUCTURE.

- SCOPE OF WORK - PROPOSED DOCKS**
- THE PROPOSED DOCKS HAVE BEEN DESIGNED TO RESTORE FISHING ACCESS IN THE AREA OF ERODED SHORELINE BEHIND THE CANAL BULKHEAD. THE DOCK HAS BEEN DESIGNED TO HAVE NO IMPACT TO THE EXISTING CANAL BULKHEAD.
- DOCK LOADING IS 100psf WHICH RESULTS IN A MAXIMUM LOADING OF LESS THAN 3 TONS PER PILE.
 - THE TIMBER DOCK IS AN INDEPENDENT STRUCTURE AND IS NOT ATTACHED TO THE BULKHEAD SYSTEM IN ANY WAY.
 - TIMBER PILES ARE A MINIMUM OF 30' LONG END BEARING PILES, WHICH IS WELL BELOW THE REQUIRED DEPTH TO NOT HAVE ANY LATERAL IMPACTS ON THE BULKHEAD AND WILL FAR EXCEED THE REQUIRED 3 TONS. ANY LATERAL LOADS FROM THE DOCK IS LIMITED TO LIVE LOAD SWAY OR MINIMAL WAVE ACTION. BOTH OF THESE ARE NOMINAL AND WILL RESULT IN NO IMPACT TO THE EXISTING BULKHEAD.
 - ALL PILES WILL BE SPACED EXACTLY CENTERED BETWEEN ALL CANAL BULKHEAD REAR BATTER H-PILES. PILES ARE SPECIFIED TO BE PLACED AT 9' CENTERS AND ARE SPECIFIED TO BE ADJUSTED IN FIELD TO BE EXACTLY CENTERED BETWEEN SUPPORTS.
 - THE SPECIFICATIONS REQUIRE THAT THE PILES WILL BE INSTALLED USING A DROP HAMMER VS. A VIBRATORY HAMMER. DUE TO THE LOOSE SOIL CONDITIONS IN THE UPPER PORTION OF SOIL, THE INITIAL 20'± WILL REQUIRE MINIMAL IMPACT TO DRIVE THE PILE WHICH WILL ALLOW THE PILE TO EXTEND BEYOND THE REAR SUPPORT SYSTEM BEFORE GREATER DRIVING LOADS WILL BE APPLIED. THUS RESULTING IN MINIMAL LATERAL DRIVING IMPACT ON THE CANAL BULKHEAD SHEETS.
 - PROPOSED DOCK TIMBER FRAMING IS SPECIFIED TO BE LOCATED 6" CLEAR FROM THE EXISTING WALER. COMPOSITE DECK BOARDS WILL EXTEND TO 1/2" CLEAR (FOR ADA PURPOSES) FROM THE CHAIN LINK FENCE.

- SCOPE OF WORK - FENCING**
- ALL FENCING AND FENCE HARDWARE WITHIN PROJECT LIMITS TO BE REPLACED IN KIND. ALL FENCE MATERIALS, HEIGHT, CONNECTIONS, ETC. TO COMPLETELY MATCH EXISTING FENCE.
 - ALL FENCE POSTS, MESH AND HARDWARE IS TO BE HOT-DIP GALVANIZED.

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BEACH BOULEVARD
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OCEAN COUNTY
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SHEET TITLE: **EXHIBIT DETAILS**

SHEET NUMBER: **EXH-2**