



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:

Public Notice Number: NAN-2023-00625-WJO

Issue Date:

Expiration Date:

To Whom It May Concern:

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

APPLICANT: Palisades Interstate Park Commission
3006 Seven Lakes Drive
P.O. Box 427
Bear Mountain, NY 10911

ACTIVITY: Construction of Boardwalk with Viewing Platform

WATERWAY: Iona Island Tidal Wetland (Hudson River Watershed)

LOCATION: Stony Point, Rockland County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

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

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE,
otherwise, it will be presumed that there are no objections to the activity.

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Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various life stages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision. This public notice serves as notification to the Administrator of the Environmental Protection Agency (EPA) pursuant to section 401(a)(2) of the Clean Water Act. If EPA determines that the proposed discharge may affect the quality of the waters of any state other than New York, it will so notify such other state, the district engineer, and the applicant. If such notice or a request for supplemental information is not received within 30 days of issuance of this public notice, the district engineer will assume EPA has made a negative determination with respect to section 401(a)(2).

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which

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has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Alexis Johnson at Alexis.J.Johnson@usace.army.mil or (917) 790-8013.

In order for us to better serve you, please complete our Customer Service Survey located at <https://www.nan.usace.army.mil/Missions/Regulatory/Customer-Survey/>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

FOR AND IN BEHALF OF
Stephan A. Ryba
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, Palisades Interstate Park Commission, has requested Department of the Army authorization for the construction of a trail and boardwalk with viewing platform in the Hudson River Watershed, Town of Stony Point, Rockland County, New York.

The work would involve:

Construct a 6-foot (ft) by 165-ft boardwalk leading to a 16.5-ft by 12-ft viewing platform. Approximately 135 feet of the boardwalk would be below Mean High Water (MHW) along with 16 vertical support structures and approximately 144 square feet (sf) of supporting fill. Approximately 23 sf would be excavated below MHW for the foundations of the boardwalk. Upland work includes removing vegetation to construct an ADA accessible trail.

The applicant has stated that they have avoided and minimized for potential impacts proposed to the maximum extent practicable by constructing the trail in an old road bed instead of within the marsh area. Any potential impacts would be temporary and would be offset by implementing best management practices such as silt fencing.

The stated purpose of this project is to construct an ADA-compliant trail and boardwalk.

ADA TRAIL & BOARDWALK

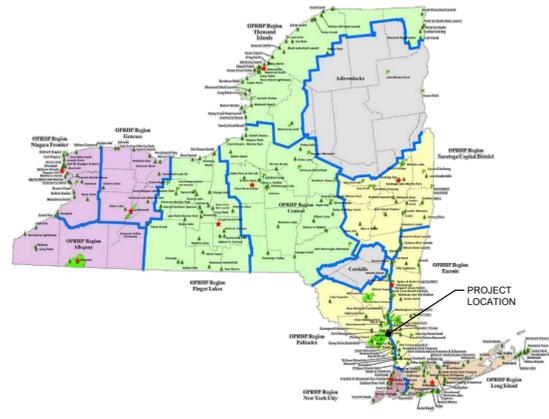
PROJECT ID: PA-2017-003

IONA ISLAND NATURE PRESERVE
100 IONA ISLAND ROAD
BEAR MOUNTAIN, NY 10911

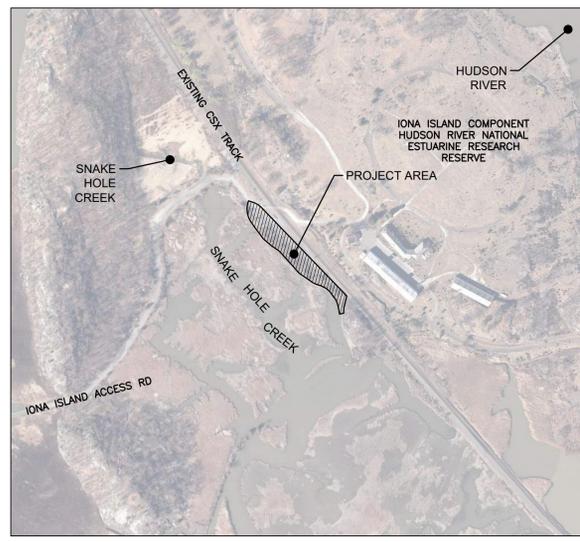
80% Design Drawings

January 19, 2024

PROJECT LOCATION MAP



SITE LOCATION MAP



LIST OF DRAWINGS

GENERAL:

- 1 G-001 TITLE SHEET
- 2 G-002 GENERAL NOTES

CIVIL/SITE:

- 3 C-100 EXISTING CONDITIONS PLAN
- 4 C-110 SITE PREPARATION AND REMOVALS PLAN
- 5 C-120 SITE LAYOUT AND LANDSCAPE PLAN
- 6 C-130 GRADING AND DRAINAGE PLAN
- 7 C-131 SECTIONS AND PROFILES
- 8 C-500 SITE DETAILS
- 9 C-510 BOARDWALK NOTES
- 10 C-511 BOARDWALK ENLARGEMENT PLANS
- 11 C-512 BOARDWALK PROFILE
- 12 C-513 BOARDWALK ENLARGED PARTIAL PLANS
- 13 C-514 BOARDWALK TYPICAL SECTIONS AND DETAILS
- 14 C-515 BOARDWALK SECTIONS

DESIGN CRITERIA:

SITE / CIVIL

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE UNIFORM CODE OF NEW YORK STATE AND ITS REFERENCE STANDARDS.

DESIGN BASIS

GOVERNING CODE:.....2020 BCNYS
SUPPLEMENTAL CODES:.....ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

STRUCTURAL

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE UNIFORM CODE OF NEW YORK STATE AND ITS REFERENCE STANDARDS.

DESIGN BASIS

GOVERNING CODE:.....2020 BCNYS
BUILDING INFORMATION
RISK CATEGORY:.....II

(SEE SHEET C510 FOR ADDITIONAL CRITERIA)

PERMITTING

- NYSDEC ARTICLE 25 TIDAL WETLANDS, NYSDEC SECTION 401 WATER QUALITY CERTIFICATION
- USACE SECTION 404, NYSOS'S STATE OWNED LANDS UNDER WATER
- NYSOS'S COASTAL CONSISTENCY CONCURRENCE

NYS OPRHP Palisades Region
3006 Seven Lakes Dr, PO Box 427
Bear Mountain, NY 10911
(845) 786-2701

Executive Director: Joshua Laird

Project Title:
ADA Trail and Boardwalk
Project ID: PA-BM-2017-003

Project Location:
100 Iona Island Rd
Bear Mountain, New York 10911

Key Plan

REVISIONS

Rev#	Description	Date:

Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title: Title Sheet	Drawing Number: G-001
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Project Number: 2220842	Sheet: 1 of 14
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8/20/2015 10:39:06 AM NOT FOR CONSTRUCTION

PROJECT INFORMATION:

PERMITTING

- NYSDEC ARTICLE 25 TIDAL WETLANDS, NYSDEC SECTION 401 WATER QUALITY CERTIFICATION
• USACE SECTION 404, NYSOS STATE OWNED LANDS UNDER WATER
• NYSOS COASTAL CONSISTENCY CONCURRENCE

ENVIRONMENTAL RESTRICTIONS

- ENVIRONMENTAL RESTRICTIONS - SEE BELOW FOR DATE RESTRICTIONS. IMPACTS ARE LIMITED TO THE AREAS DEFINED ON THE PLANS INCLUDED WITH THE PERMIT.

CONSTRUCTION SCHEDULE RESTRICTIONS

- TREE CLEARING MUST OCCUR NOVEMBER 1-MARCH 31, NO CONSTRUCTION MAY 1-AUGUST 1

SPECIES PROTECTION

- COMPLY WITH ALL PERMIT REQUIREMENTS, NO WORK SHALL OCCUR OUTSIDE OF DEFINED WORK AREAS

PEDESTRIAN SAFETY & CONSTRUCTION SEQUENCING NOTES:

1. THE CONTRACTOR IS TO MAINTAIN A SAFE ROUTE FOR PEDESTRIAN TRAFFIC THROUGHOUT THE DURATION OF CONSTRUCTION CONTRACT.
2. THE CONTRACTOR IS TO ACCESS THE SITE THROUGH IONA ISLAND ACCESS ROAD. (SEE TITLE SHEET FOR LOCATION MAP).
3. CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL REMOVE AND REMEDIATE ANY DAMAGES FROM TEMPORARY SIGN INSTALLATION UPON CONSTRUCTION COMPLETION.
4. ALL MACHINE WORK ON THE BOARDWALK SHALL BE UNDERTAKEN DURING PERIODS OF LOW TIDE.
5. SIGNAGE SHALL BE PLACED NEAR THE EXISTING KIOSK STATING THAT NEW TRAIL IS UNDER CONSTRUCTION. SIGNS SHALL GENERALLY BE CONSTRUCTED AS SHOWN ON DETAIL 4&5/C500, OR AS OTHERWISE NOTED, AND AT A MINIMUM SHALL INCLUDE:
A. SITE TEMPORARILY CLOSED, NO PEDESTRIAN ACCESS PERMITTED.

EXISTING CONDITIONS NOTE:

1. NOT ALL EXISTING TREES ARE SHOWN ON PLAN, TREES SHOWN ARE OF SIGNIFICANT SIZE (>3")

SITE PREPARATION AND REMOVALS NOTES:

1. CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
2. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING WORK. SELECTIVE DEMOLITION OPERATIONS - DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
3. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
4. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS, ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
5. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
6. ANY EXISTING TREES THAT ARE DAMAGED BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED IN KIND IF DAMAGED.

SITE LAYOUT NOTES:

GENERAL CONSTRUCTION:

1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DAMAGED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
2. NOTIFY PARK MANAGER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
4. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
6. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
7. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DIRECTOR'S REPRESENTATIVE BEFORE CONSTRUCTION IS TO PROCEED.
8. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WETLAND OR WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM READY-MIXED CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS. ONLY WATERPROOF OR WATERPROOF FORMS SHALL BE USED. WET CONCRETE SHALL NOT BE POURED TO DISPLACE WATER WITHIN THE FORMS.

LAYOUT:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. AS-BUILT PLANS TO BE DEVELOPED BY LICENSED SURVEYOR, AND SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

GRADING AND DRAINAGE NOTES:

1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. NO SOILS TO BE TRANSPORTED OFF-SITE. CONTRACTOR TO REFER TO MEMORANDUM DATED 8/7/2023 TITLED 'IONA ISLAND NATURE PRESERVE - JUNE 2023 SAMPLING RESULTS' FOR ANY PRECAUTIONS RECOMMENDED FOR ON-SITE WORKERS.
3. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
4. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
5. CONTRACTOR TO USE "MUD MATS" TO MINIMIZE SOIL COMPACTION DURING THE CONSTRUCTION PROCESS

STORMWATER COMPLIANCE NOTE:

1. THE TOTAL AREA OF DISTURBANCE PLANNED FOR THIS PROJECT IS LESS THAN 1 ACRE THEREFORE A SPDES GENERAL PERMIT (GP-0-20-001) IS NOT REQUIRED.

EROSION CONTROL SEQUENCING NOTES:

1. THERE SHALL BE A PRE-CONSTRUCTION MEETING WITH CONTRACTORS, DIRECTOR'S REPRESENTATIVE AND PARK MANAGER. BI-WEEKLY INSPECTION REPORTS SHALL BE SUBMITTED ELECTRONICALLY WITHIN 24 HOURS OF COMPLIANCE TO THE DIRECTOR'S REPRESENTATIVE AND PARK MANAGER.
2. PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. WETLAND FENCE, SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, INFILTRATION BASIN PROTECTION, ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
3. PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES IN ANY OTHER AREA OF THE SITE, THE CONTRACTOR SHALL INSTALL INLET PROTECTION MEASURES.
4. TEMPORARY DIVERSION MEASURES SHALL BE INSPECTED DAILY AND REPAIRED/STABILIZED AS NECESSARY TO MINIMIZE EROSION.
5. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
6. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, AND CURB INLETS.
7. CONSTRUCT ALL UTILITIES, CURB INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
8. FINALIZE TRAIL SUB-GRADE PREPARATION.
9. REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
10. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
11. PRIOR TO FINALIZING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
12. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

EROSION AND SEDIMENT CONTROL MEASURES:

1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
2. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", CURRENT VERSION.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS FREQUENTLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
4. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERMANENT AND TEMPORARY VEGETATION: INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE: INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FALLS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

SILT FENCE: INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE: INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL: SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER) STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

CHECK DAM: INSPECT CHECK DAMS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINDER OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF ENGINEER.

DEWATERING PITS: (IF REQUIRED) - INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS NEEDED.

SNOW AND ICE CONTROL: PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

LANDSCAPING NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
2. THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
3. THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
5. NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
6. QUALITY ASSURANCE:
A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
C. NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, WOOLLY PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM FOOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
7. PRODUCTS
A. IMPORTED TOPSOIL: SEE SPECIFICATIONS.
B. FERTILIZER: SEE SPECIFICATIONS.
C. PLANT MATERIAL: SEE SPECIFICATIONS.
D. MULCH: SEE SPECIFICATIONS.
8. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
A. SEE PROJECT INFORMATION NOTES.
B. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY RESTORATION ACTIVITIES WHEN SEED MIXES OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER CROP (SEE CONSERVATION SEED MIXTURE COVER CROPS FOR TYPES AND DATES OF USAGE) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
C. MISC AREAS CONSERVATION SEED MIXTURES: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:
a. EASTERN ECOTYPE NATIVE GRASS MIX (ENRMX-177 OR APPROVED EQUAL)
% SPECIES
35.0% Andropogon gerardi (Big Bluestem)
30.0% Sorghastrum nutans NY Ecotype (Indiangrass)
20.0% Panicum virgatum (Switchgrass)
15.0% Elymus virginicus (Virginia Wildrye, Madison NY Ecotype)
a.1.1. SEEDING RATE
a.1.1.1. 1 LB PER 1,000 SQ.FT. WITH A COVER CROP.
b. DEER RESISTANT MEADOW MIX (ENRMX-155 OR APPROVED EQUAL)
% SPECIES
20.0% Elymus virginicus (Virginia Wildrye)
18.0% Schizachyrium scopari (Little Bluestem)
16.9% Bouteloua curtipendula (Butte Sideoats Grama)
11.00% Echinochloa purpurea (Purple Coneflower)
4.00% Chamaecrista fasciculata (Partridge Pea)
4.00% Coreopsis lanceolata (Lanceleaf Coreopsis)
3.70% Rudbeckia hirta (Blackeyed Susan)
2.90% Asclepias tuberosa (Butterfly Milkweed)
2.70% Helipais helianthoides (Oxeye Sunflower)
2.50% Penstemon digitalis (Tall White Beardtongue)
2.00% Liatris spicata (Marsh Blazing Star)
1.70% Zizia aurea (Golden Alexander)
1.30% Eragrostis spectabilis (Purple Lovegrass)
1.30% Lespedeza capitata (Roundhead Lespedeza)
1.30% Senecio jacobinae (Wild Geranium)
1.00% Baptisia australis (Blue False Indigo)
0.80% Aster oblongifolius (Aromatic Aster)
0.80% Pycnanthemum tenuifolium (Narrowleaf Mountainmint)
0.70% Rudbeckia triloba (Browneyed Susan)
0.50% Aster pilosus (Heath Aster)
0.50% Monarda fistulosa (Wild Bergamot)
0.40% Solidago nemoralis (Gray Goldenrod)
0.30% Aster praeanthoides (Zigzag Aster)
0.30% Solidago bicolor (White Goldenrod)
0.30% Tradescantia ohiensis (Ohio Spiderwort)
b.0.1. SEEDING RATE
b.0.1.1. 1 LB PER 1,000 SQ.FT. WITH A COVER CROP.
c. NATIVE HABITAT FOR STRIP MINES MIX (ENRMX-111 OR APPROVED EQUAL)
% SPECIES
20.00% Elymus virginicus (Virginia Wildrye)
18.00% Andropogon gerardi, 'Southern' (Big Bluestem, 'Southern')
18.00% Schizachyrium scoparium (Little Bluestem)
18.00% Sorghastrum nutans (Indiangrass)
13.00% Panicum virgatum, 'Shawnee' (Switchgrass 'Shawnee')
2.80% Chamaecrista fasciculata (Partridge Pea)
2.50% Rudbeckia hirta (Blackeyed Susan)
2.00% Helipais helianthoides (Oxeye Sunflower)
1.40% Desmodium canadense (Shiny Tickleleaf)
0.20% Asclepias speciosa (Common Milkweed)
0.20% Monarda fistulosa (Wild Bergamot)
c.0.1. SEEDING RATE
c.0.1.1. 1 LB PER 1,000 SQ.FT. WITH A COVER CROP.
d. COVER CROP
d.1. USE ONE OF THE FOLLOWING:
d.a.a. (1 JANUARY TO 31 JULY; 30 LBS/ACRE): GRAIN OATS
d.a.b. (1 AUGUST TO 31 DECEMBER; 10 LBS/ACRE): GRAIN RYE
e. SITE PREPARATION
e.1. COMPETITION FROM INVASIVE OR UNDESIRABLE VEGETATION IS THE MOST LIMITING FACTOR IN UPLAND MEADOW PREPARATION. PRIOR TO PLANTING, ALL SUCH VEGETATION MUST BE FULLY CONTROLLED. TYPICAL CONTROL STRATEGIES INCLUDE REPEATED TILLING, SMOTHERING WITH BLACK PLASTIC OR HERBICIDES.
e.1.1. TILLAGE STRATEGY: A SITE IS DISC HARROWED EVERY TWO TO FOUR WEEKS FOR A ONE TO TWO MONTH PERIOD. THE UNDERLYING PREMISE OF THIS PROCESS IS THAT THE ROOT SYSTEM OF PERENNIAL SPECIES WILL BE WORN OUT TO THE POINT OF KILLING THE SPECIES. IN ADDITION, TILLAGE WILL STIMULATE GERMINATION OF DOMINANT WEED SEED WHICH WILL BE KILLED BY SUBSEQUENT TILLAGE. PLANTING SHOULD NOT OCCUR UNTIL PERENNIAL SPECIES ARE COMPLETELY KILLED.
e.1.2. BLACK PLASTIC MAY ALSO BE USED TO KILL WEEDS. IT MAY BE LAID ACROSS TILLED OR UNTILLED SOIL, AND ANCHORED DOWN BY BURYING THE EDGES IN SOIL OR LAYING BOARDS OR BRICKS ACROSS THE SURFACE. THIS PROTOCOL SHOULD BE UTILIZED DURING A GROWING SEASON WHERE THE INTENT IS TO FALL PLANT IN THE SAME YEAR OR SPRING PLANT THE FOLLOWING YEAR.

- e.1.3. THE APPLICATION OF AN APPROVED HERBICIDE BY A LICENSED SPRAY TECHNICIAN, SUCH AS GLYPHOSATE IS THE MOST COMMON AND LEAST TIME-INTENSIVE PROTOCOL FOR CONTROLLING EXISTING VEGETATION. HERBICIDES ARE MOST EFFECTIVE ON ACTIVELY ROWING PLANT TISSUES; THEREFORE, THEY ARE VERY EFFECTIVE ON NEW GROWTH IN THE SPRING. SPRAYING SHOULD BEGIN WHEN GROWTH IS APPROXIMATELY 6" HIGH, ONE TO TWO WEEKS LATER, A FOLLOW-UP APPLICATION OF SPRAY MAY BE MADE TO ADDRESS SKIPS OR PERSISTENT SPECIES. IF SUBSTANTIAL PLANT TISSUES REMAIN ON THE SURFACE FOLLOWING A FULL KILL BY HERBICIDES, FIRE, CLOSE MOWING, TILLAGE OR BURNING MAY BE NECESSARY TO ACHIEVE GOOD SEED-TO-SOIL CONTACT.

f. GROWING SEASON MAINTENANCE

- f.1. FIRST GROWING SEASON
f.1.1. WHENEVER CANOPY (OVERALL VEGETATION) REACHES A HEIGHT OF 18"-TRIM THE MEADOW TO A HEIGHT OF 8" (NOTE: A LAWN MOWER IS NOT RECOMMENDED AS THE MOWER HEIGHT WILL BE TOO LOW AND NATIVE SEEDLINGS WILL BE KILLED). THIS WILL REDUCE COMPETITION BY FAST-GROWING WEEDS FOR SUNLIGHT, WATER AND NUTRIENTS NEEDED BY SLOW-GROWING PERENNIAL NATIVES. MOWING SHOULD CEASE BY MID-SEPTEMBER.
f.1.2. FOR SEEDINGS OF ANNUAL WILDFLOWER MIXES OR ANNUAL & PERENNIAL WILDFLOWER MIXES, PROBLEM WEEDS SHOULD BE HAND PULLED.
f.1.3. PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH APPROVED HERBICIDES (SUCH AS ROUNDUP@OR RODEO@).
f.2. SECOND GROWING SEASON
f.2.1. PRIOR TO NEW SPRING GROWTH REACHING A HEIGHT OF 2" (E.G., SHORTLY AFTER REDBUD BLOOMS), TRIM ANY MATERIAL STANDING FROM THE PREVIOUS YEAR CLOSE TO THE GROUND (APPROXIMATELY 2"). THIS WILL ALLOW THE SOIL TO WARM MORE QUICKLY, WHICH WILL STIMULATE THE EMERGENCE AND GROWTH OF NATIVE SEEDLINGS AND REDUCE THE LIKELIHOOD OF THE MEADOW BEING INVADED BY SHRUBS.
f.2.2. PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED HERBICIDE.

E. HYDRIC AREAS SEED MIX:

PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:

1. MD COASTAL PLAIN RIPARIAN MIX (ERNMX-732 OR APPROVED EQUAL)

- % SPECIES
39.70% Sorghastrum nutans (Indiangrass)
20.00% Elymus virginicus (Virginia Wildrye)
18.00% Panicum virgatum (Switchgrass)
10.00% Panicum rigidulum (Redtop Panicgrass)
3.00% Chamaecrista fasciculata (Partridge Pea)
3.00% Rudbeckia hirta (Blackeyed Susan)
2.00% Helipais helianthoides (Oxeye Sunflower)
1.00% Asclepias incarnata (Swamp Milkweed)
0.80% Vernonia noveboracensis (New York Ironweed)
0.80% Eupatorium perfoliatum (Boneset)
0.80% Helenium autumnale (Common Sneezeweed)
0.80% Solidago rugosa (Wrinkleleaf Goldenrod)

a. SEEDING RATE

- a.1. 20 LB PER ACRE, OR 1/2 LB PER 1,000 SQ.FT. WITH A COVER CROP.

b. COVER CROP

- b.1. USE ONE OF THE FOLLOWING:
b.a.o. (1 SEP TO 30 APR; 30 LBS/ACRE): GRAIN RYE
b.a.b. (1 MAY TO 31 AUG; 10 LBS/ACRE): JAPANESE MILLET
b.a.c. (1 MAY TO 31 AUG; 10 LBS/ACRE): BARNYARD GRASS

c. SITE PREPARATION

- c.1. INVASIVE SPECIES, PARTICULARLY THOSE THAT WILL ADAPT TO WET CONDITIONS, SHOULD BE REMOVED OR SPRAYED WITH AN APPROVED HERBICIDE BEFORE BECOMING INCORPORATED INTO THE SITE. PERENNIAL WEEDS NOT ADDRESSED BEFORE ESTABLISHMENT WILL BE DIFFICULT TO REMOVE LATER. NORMAL VEGETATION CAN BE WORKED INTO THE TOPSOIL, WHICH SHOULD BE STOCKPILED UNTIL THE FINAL GRADE HAS BEEN ESTABLISHED.
c.o. WITH THE SPECIFICATIONS AND DIMENSIONS, ON-SITE CONSTRUCTION OF THE BERM AND OUTLETS MUST BE EXECUTED CAREFULLY TO MAINTAIN STRUCTURAL INTEGRITY. THE INFILTRATION AND PLANT GROWTH AREAS SHOULD BE LOOSE AND FRAGILE, HIGH IN ORGANIC MATTER AND COMPLETED WITHOUT COMPACTION FROM EXCESSIVE WATER UNTIL THEY BECOME WELL ROOTED AND ARE SUBJECT TO USE AN EXCAVATOR TO DIG AND DROP EACH AREA OF THE BOTTOM SOIL IN A LOOSE MANNER. AT THIS POINT, LIME, COMPOSTED LEAVES AND/OR GRASS CLIPPINGS CAN BE INCORPORATED. THE EXCAVATION MACHINE DOES NOT MOVE OVER THE FINISHED SURFACE. THIS AVOIDING UNNECESSARY COMPACTION. NATIVE VEGETATION CAN BE PLANTED OR SEEDED OVER THIS UNEVEN ABSORBENT SURFACE.
c.2. ABOVE THE COVER CROPS TO PROTECT THE SOIL UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED SHALL BE USED. THE USE OF SUCH NATIVE SPECIES AS ELYMUS VIRGINICUS (VIRGINIA WILD RYE) CAN CREATE AN INTERMEDIATE COVER THAT SUCCEEDS IN LONG-TERM NATIVE VEGETATION. STRAW MULCH SHOULD BE USED FROM THE MEADOW TO A HEIGHT OF 8" IF BIOENGINEERING OR CONTAINERIZED WOODY MATERIALS WERE USED ON THE SITE. MOWING SHOULD BE ABOVE THE NEW GROWTH OF THESE MATERIALS. MOWING SHOULD CEASE BY MID-SEPTEMBER. PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED HERBICIDE.

d. GROWING SEASON MAINTENANCE

e. FIRST GROWING SEASON

- e.1. WHENEVER CANOPY (OVERALL VEGETATION) REACHES A HEIGHT OF 18"-24", USE A BRUSH HOG MOWER OR STRING TRIMMER TO TRIM THE MEADOW TO A HEIGHT OF 8" (NOTE: A LAWN MOWER IS NOT RECOMMENDED AS THE MOWER HEIGHT WILL BE TOO LOW AND NATIVE SEEDLINGS WILL BE KILLED). THIS WILL REDUCE COMPETITION BY FAST-GROWING WEEDS FOR SUNLIGHT, WATER AND NUTRIENTS NEEDED BY SLOW-GROWING PERENNIAL NATIVES. IF BIOENGINEERING OR CONTAINERIZED WOODY MATERIALS WERE USED ON THE SITE, MOWING SHOULD BE ABOVE THE NEW GROWTH OF THESE MATERIALS. MOWING SHOULD CEASE BY MID-SEPTEMBER. PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED HERBICIDE.

f. SECOND GROWING SEASON

- f.1. PRIOR TO NEW SPRING GROWTH REACHING A HEIGHT OF 2" (E.G., SHORTLY AFTER FORSYTHIA OR REDBUD BLOOMS), TRIM ANY MATERIAL STANDING FROM THE PREVIOUS YEAR CLOSE TO THE GROUND (APPROXIMATELY 2"). THIS WILL ALLOW THE SOIL TO WARM MORE QUICKLY, WHICH WILL STIMULATE THE EMERGENCE AND GROWTH OF NATIVE SEEDLINGS. IT WILL ALSO REDUCE THE LIKELIHOOD OF THE MEADOW BEING INVADED BY SHRUBS. IF BIOENGINEERING OR CONTAINERIZED WOODY MATERIALS WERE USED ON THE SITE OR SEED OF SHRUBS/TREES WERE PART OF THE MIX, THE SITE SHOULD NOT BE TRIMMED AFTER THE ESTABLISHMENT YEAR. PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT-SPRAYED.

g. SPECIAL CIRCUMSTANCES

- g.1. IF YOU NOTICE A HEAVY INFESTATION OF RAGWEED OR FOXTAIL IN THE SECOND GROWING SEASON OR TRIM THE MEADOW TO A HEIGHT OF 8" IF BIOENGINEERING OR CONTAINERIZED WOODY MATERIALS WERE USED, TRIMMING SHOULD BE ABOVE OR AROUND NEW GROWTH OF THE PLANTS. TRIMMING SHOULD CEASE AFTER MID-SEPTEMBER.

h. GENERAL MAINTENANCE

- h.0.1. h.1. IN ADDITION TO STRUCTURAL MAINTENANCE, SILTATION NEEDS TO BE REMOVED AS NEEDED. CLOSE MOWING OR EXTENSIVE CHEMICAL USE IS NOT CONDUCIVE TO WATER QUALITY IMPROVEMENT AND WILDLIFE HABITAT.

B. EXECUTION:

- A. LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
B. PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
E. CONSERVATION SEED MIXES & COVER CROPS:
I. SEE CONSERVATION SEED MIX NOTES.
F. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
I. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN. TO BE APPLIED ONCE SEEDING IS COMPLETE.
G. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
H. SEEDED AREAS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES AND SHRUBS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT THOSE RESULTING FROM OWNER NEGLECT. INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.

New York State Parks, Recreation and Historic Preservation
Governor Kathy Hochul Commissioner Erik Kulesseid
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Executive Director: Joshua Laird

Project Title:
ADA Trail and Boardwalk
Project ID: PA-BM-2017-003

Project Location:
100 Iona Island Rd
Bear Mountain, New York 10911

Key Plan

REVISIONS

Rev#	Description	Date:

Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title: Drawing Number:

General Notes G-002

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NOTE SUBJECT TO FURTHER REFINEMENT (TYP)

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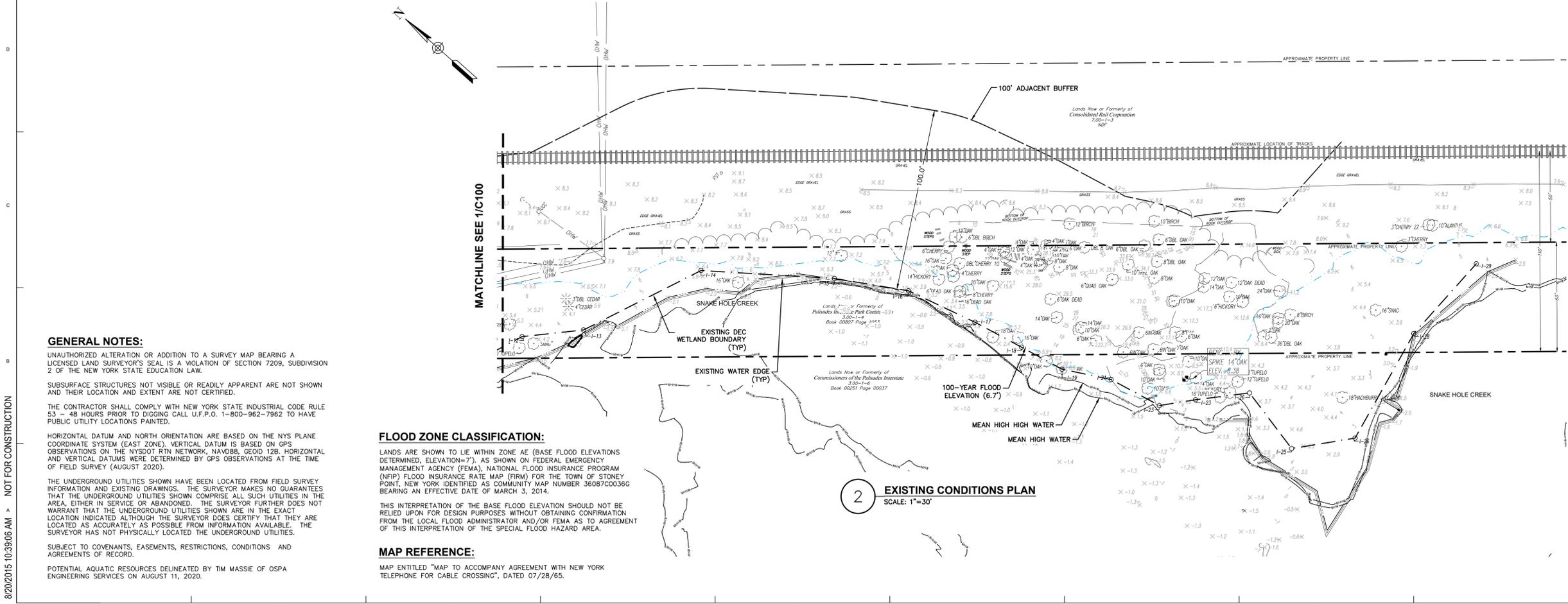
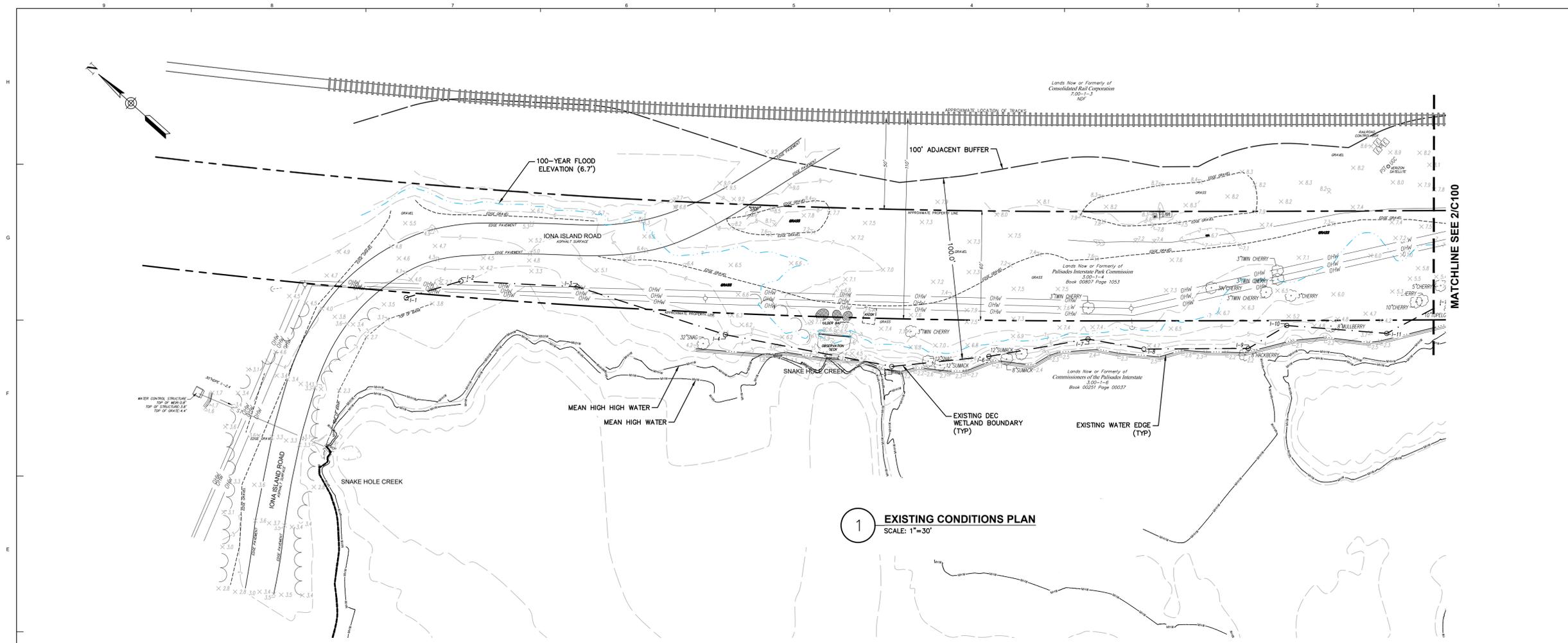
Key Plan

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Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	Date: 01.19.2024
Approved By: JAR	

Sheet Title: Existing Conditions Plan	Drawing Number: C-100
Project Number: 2220842	Sheet: 3 of 14



GENERAL NOTES:
UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.
THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 53 - 48 HOURS PRIOR TO DIGGING CALL U.F.P.O. 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.
HORIZONTAL DATUM AND NORTH ORIENTATION ARE BASED ON THE NYS PLANE COORDINATE SYSTEM (EAST ZONE). VERTICAL DATUM IS BASED ON GPS OBSERVATIONS ON THE NYS DOT RTN NETWORK, NAVD83, GEOID 12B. HORIZONTAL AND VERTICAL DATUMS WERE DETERMINED BY GPS OBSERVATIONS AT THE TIME OF FIELD SURVEY (AUGUST 2020).
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.
POTENTIAL AQUATIC RESOURCES DELINEATED BY TIM MASSIE OF OSPA ENGINEERING SERVICES ON AUGUST 11, 2020.

FLOOD ZONE CLASSIFICATION:
LANDS ARE SHOWN TO LIE WITHIN ZONE AE (BASE FLOOD ELEVATIONS DETERMINED, ELEVATION=7'). AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF STONEY POINT, NEW YORK IDENTIFIED AS COMMUNITY MAP NUMBER 36087C00366 BEARING AN EFFECTIVE DATE OF MARCH 3, 2014.
THIS INTERPRETATION OF THE BASE FLOOD ELEVATION SHOULD NOT BE RELIED UPON FOR DESIGN PURPOSES WITHOUT OBTAINING CONFIRMATION FROM THE LOCAL FLOOD ADMINISTRATOR AND/OR FEMA AS TO AGREEMENT OF THIS INTERPRETATION OF THE SPECIAL FLOOD HAZARD AREA.

MAP REFERENCE:
MAP ENTITLED "MAP TO ACCOMPANY AGREEMENT WITH NEW YORK TELEPHONE FOR CABLE CROSSING", DATED 07/28/65.

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Executive Director: Joshua Laird

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Project ID: PA-BM-2017-003

Project Location:
100 Iona Island Rd
Bear Mountain, New York 10911

Key Plan

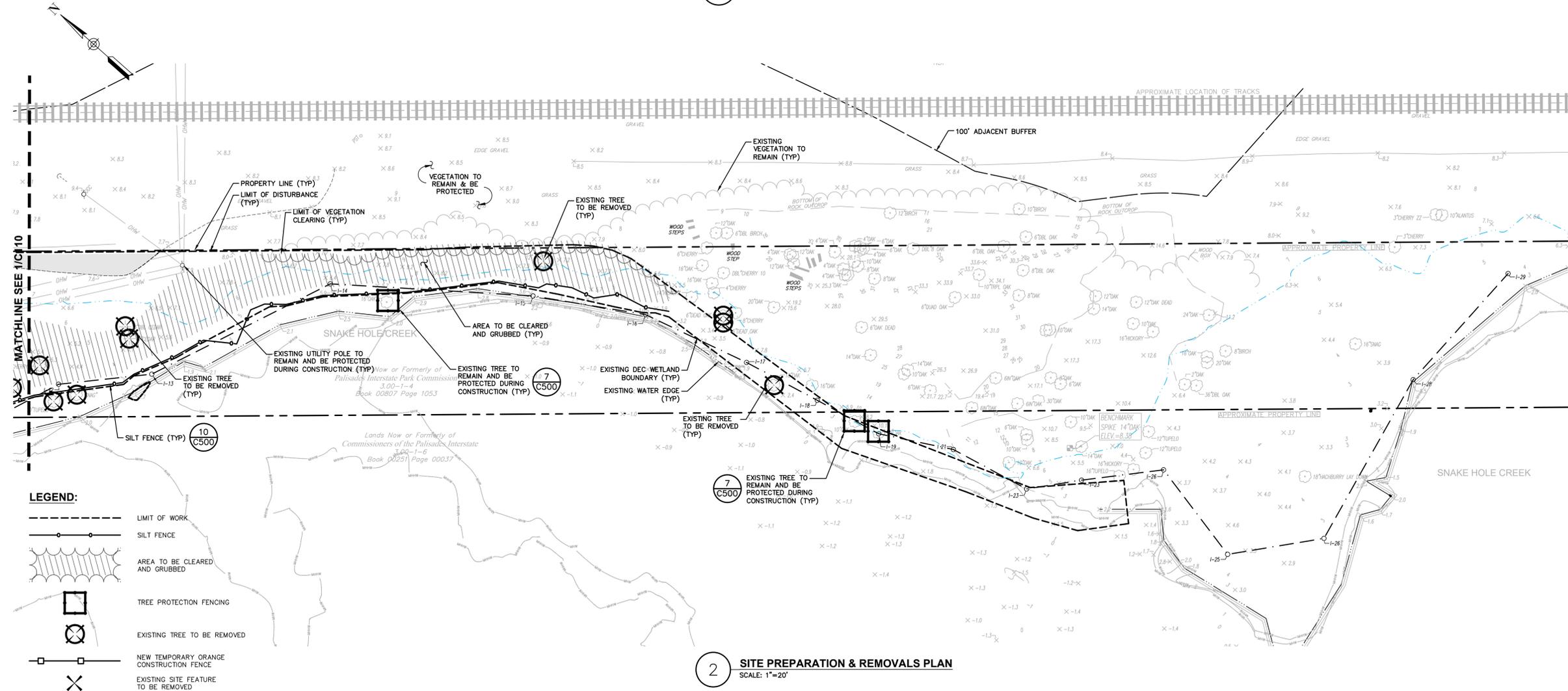
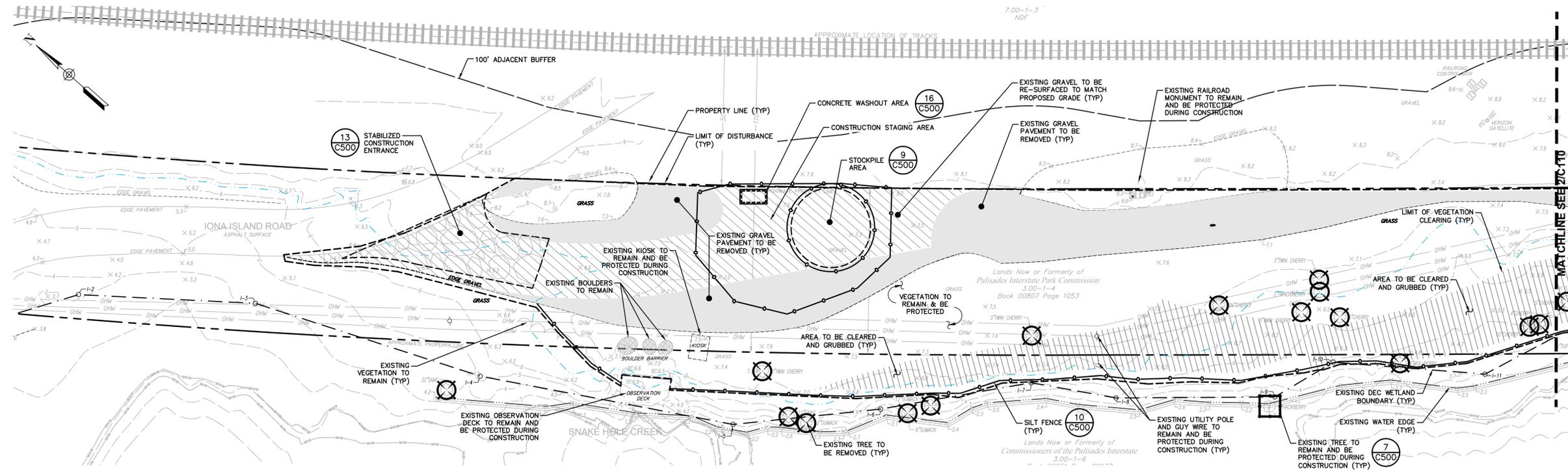
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Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title: Site Preparation and Removals Plan	Drawing Number: C-110
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Project Number: 2220842	Sheet: 4 of 14
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LEGEND:

- LIMIT OF WORK
- SILT FENCE
- AREA TO BE CLEARED AND GRUBBED
- TREE PROTECTION FENCING
- EXISTING TREE TO BE REMOVED
- NEW TEMPORARY ORANGE CONSTRUCTION FENCE
- EXISTING SITE FEATURE TO BE REMOVED

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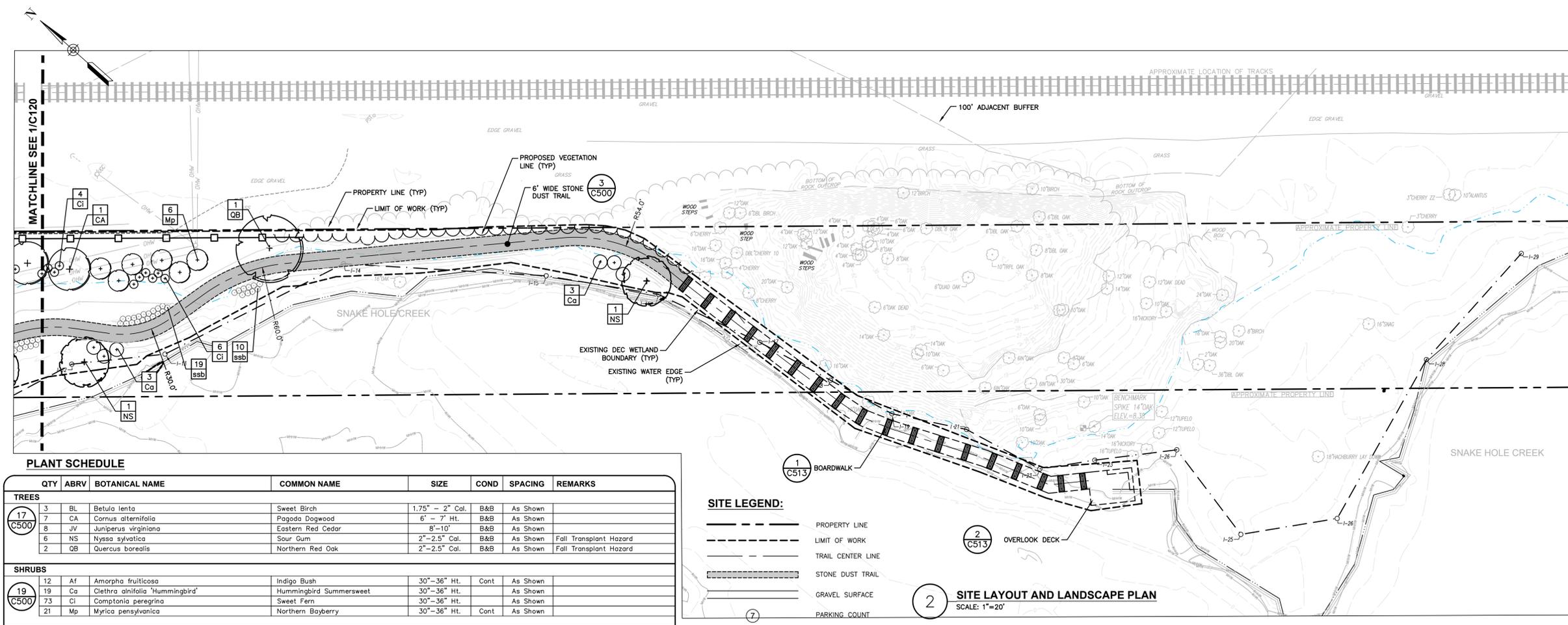
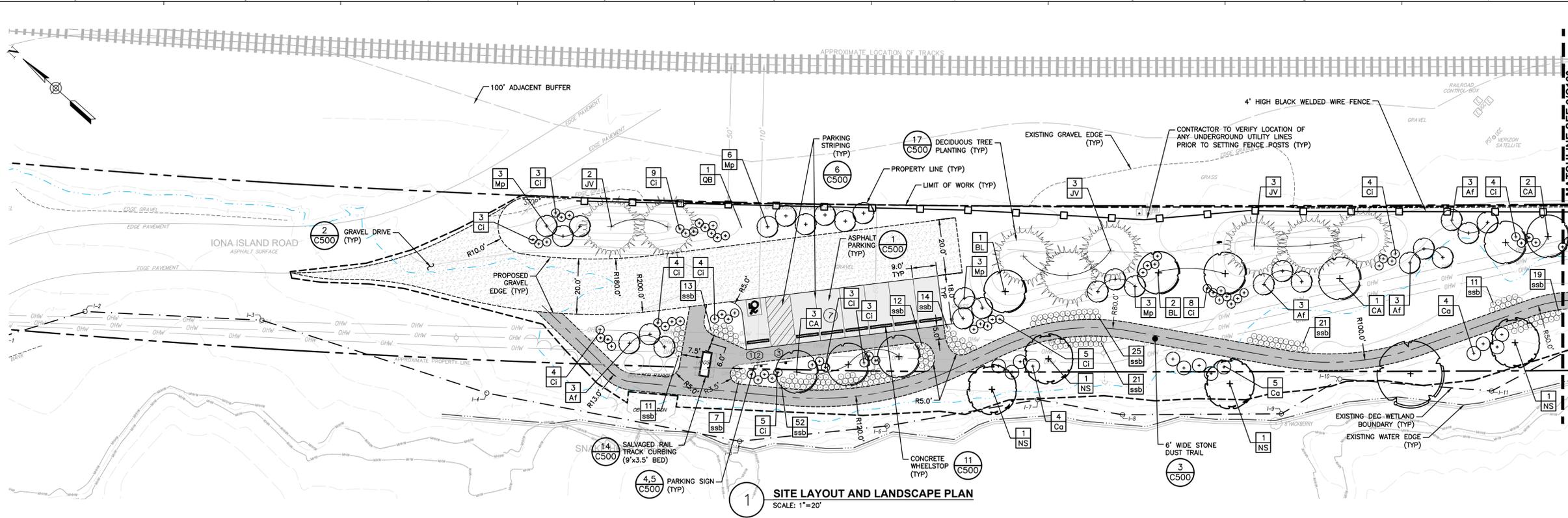
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Drawn By: JQ	Seal and Signature
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Sheet Title: Site Layout and Landscape Plan
Drawing Number: C-120

Project Number: 2220842
Sheet: 5 of 14



PLANT SCHEDULE

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
TREES							
3	BL	Betula lenta	Sweet Birch	1.75" - 2" Cal.	B&B	As Shown	
7	CA	Cornus alternifolia	Pagoda Dogwood	6' - 7' Ht.	B&B	As Shown	
8	JV	Juniperus virginiana	Eastern Red Cedar	8'-10'	B&B	As Shown	
6	NS	Nyssa sylvatica	Sour Gum	2"-2.5" Cal.	B&B	As Shown	Fall Transplant Hazard
2	QB	Quercus borealis	Northern Red Oak	2"-2.5" Cal.	B&B	As Shown	Fall Transplant Hazard
SHRUBS							
12	Af	Amorpha fruticosa	Indigo Bush	30"-36" Ht.	Cont.	As Shown	
19	Ca	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	30"-36" Ht.	As Shown	As Shown	
73	Cl	Comptonia peregrina	Sweet Fern	30"-36" Ht.	As Shown	As Shown	
21	Mp	Myrica pensylvanica	Northern Bayberry	30"-36" Ht.	Cont.	As Shown	
PERENNIALS AND GRASSES							
235	ssb	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	#3	Cont.	As Shown	

* ALL DISTURBED AREAS SHALL RECEIVE CONSERVATION SEED MIXES. UPLAND AREAS RECEIVE A BLEND OF ALL MESIC AREA SEEDS, AND AREAS ALONG THE BANK AS WELL AS THE MARSH EDGE SHALL RECEIVE A HYDRIC SEED. SEE SEED NOTES ON SHEET G002 FOR COMPOSITION, BROADCAST RATES AND FIRST AND SECOND SEASON MAINTENANCE REQUIREMENTS.

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 Powered by partnership

NYS OPRHP Palisades Region
 3006 Seven Lakes Dr, PO Box 427
 Bear Mountain, NY 10911
 (845) 786-2701

Executive Director: Joshua Laird

Project Title:
 ADA Trail and Boardwalk
 Project ID: PA-BM-2017-003

Project Location:
 100 Iona Island Rd
 Bear Mountain, New York 10911

Key Plan

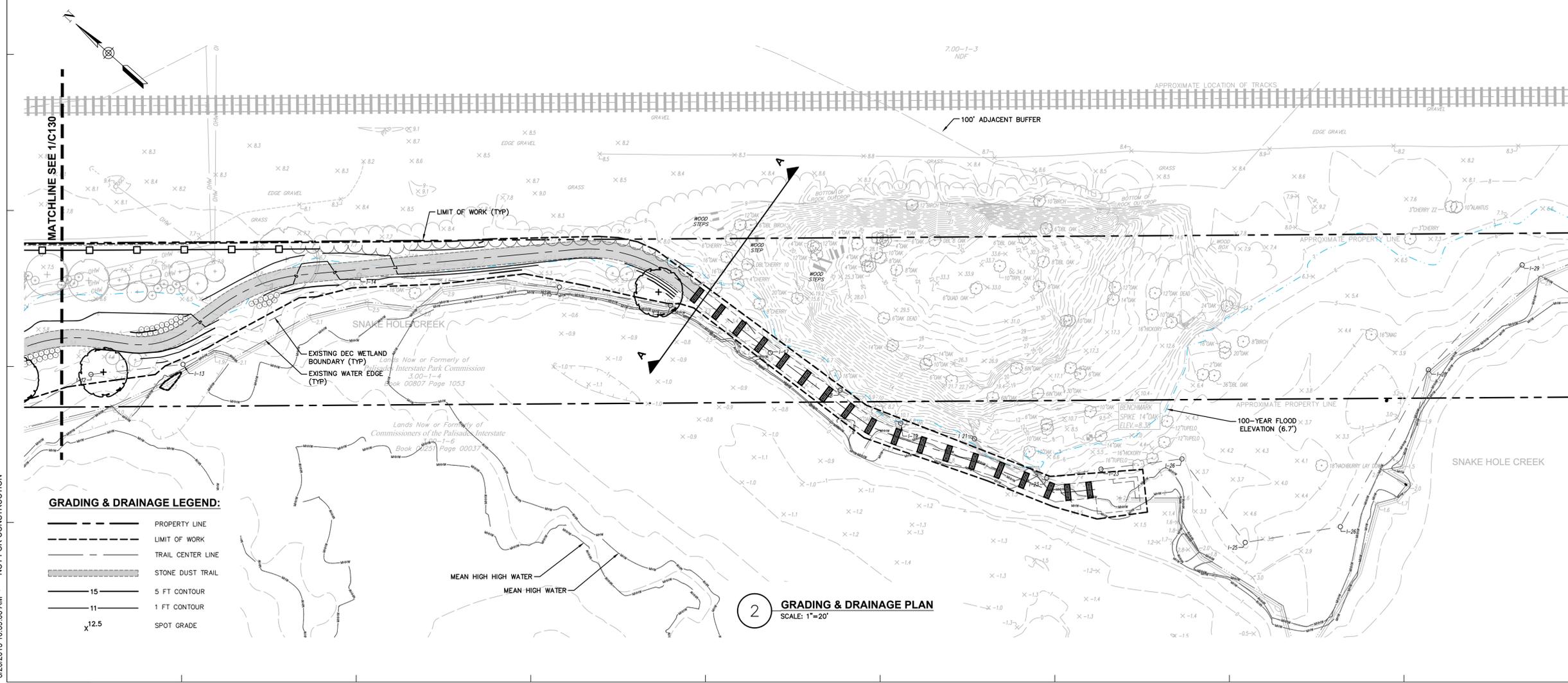
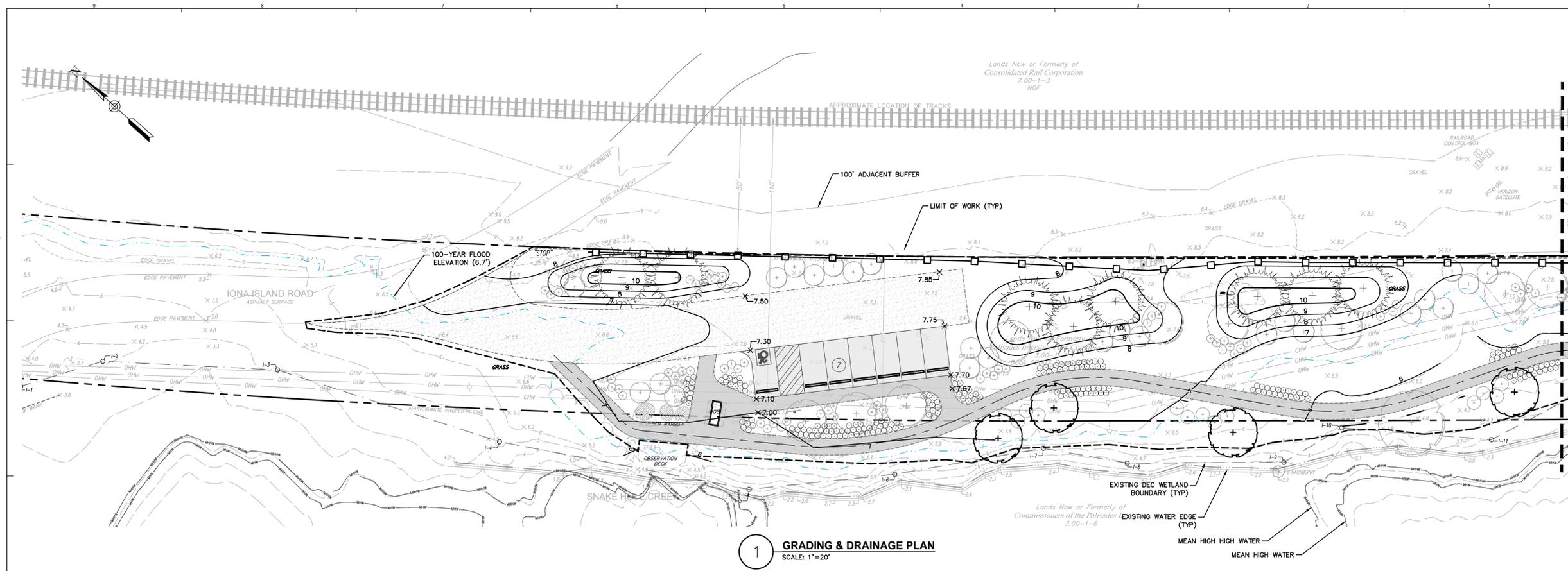
REVISIONS

Rev#	Description	Date

Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title: Grading and Drainage Plan	Drawing Number: C-130
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Project Number: 2220842	Sheet: 6 of 14
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GRADING & DRAINAGE LEGEND:

	PROPERTY LINE
	LIMIT OF WORK
	TRAIL CENTER LINE
	STONE DUST TRAIL
	5 FT CONTOUR
	1 FT CONTOUR
	SPOT GRADE

8/20/2015 10:39:06 AM NOT FOR CONSTRUCTION

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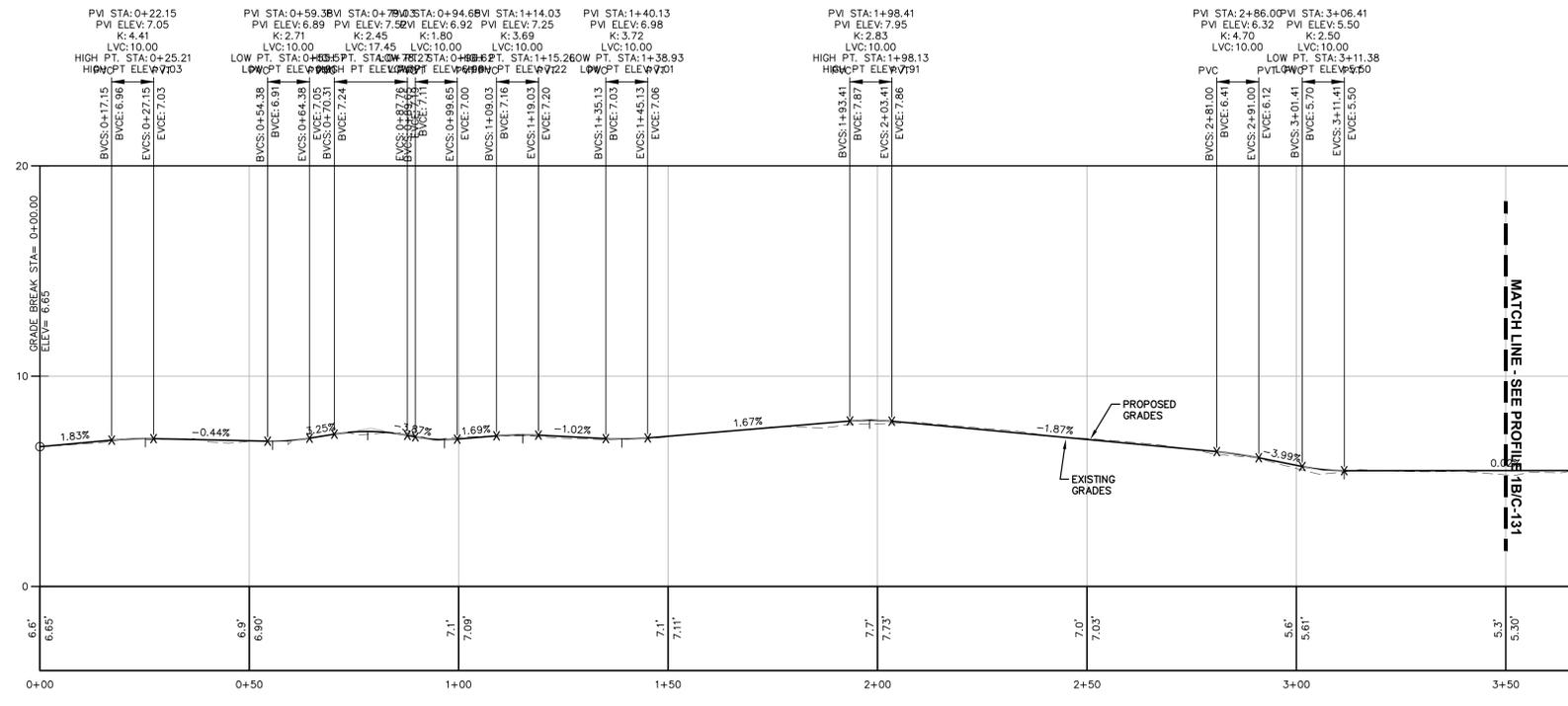
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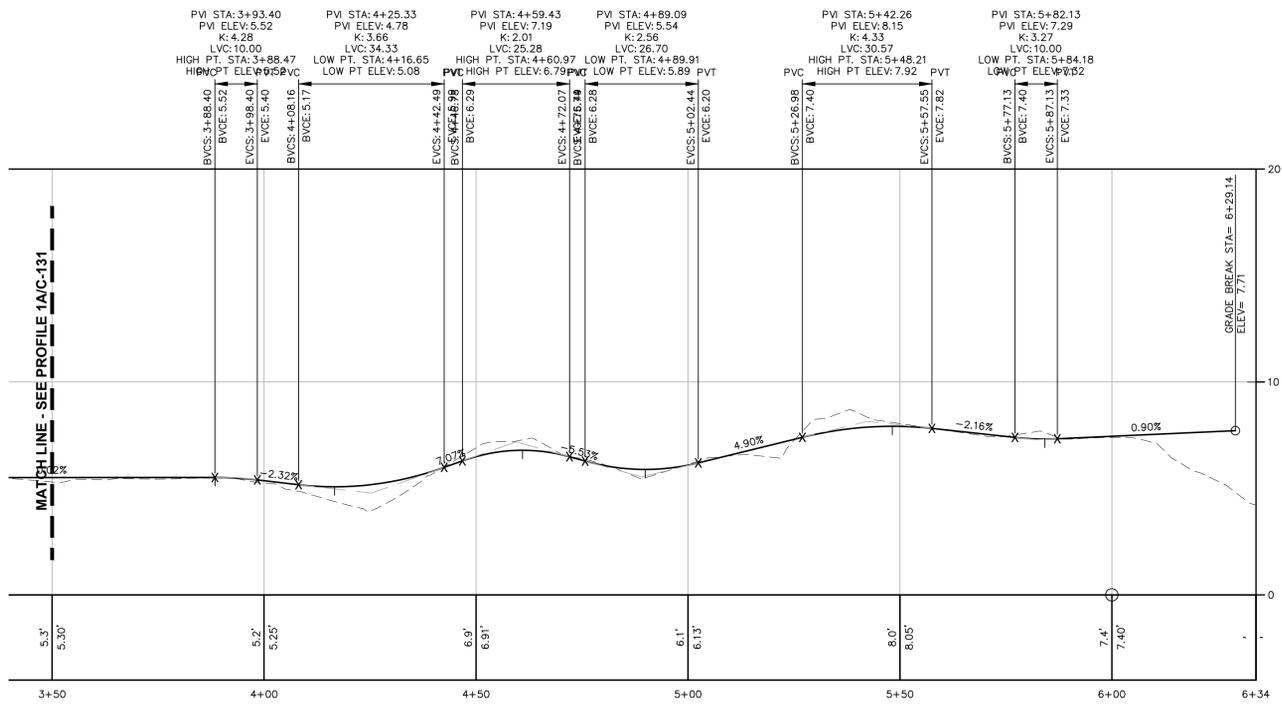
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JQ
Design By:
BGB
Checked By:
MAK
Approved By:
JAR
Date:
01.19.2024

Seal and Signature

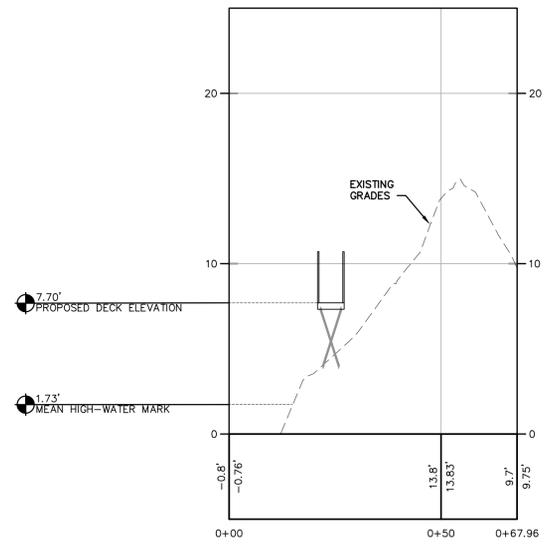
Sheet Title:
Sections and Profiles
C-131
Project Number:
2220842
Sheet:
7 of 14



1A TRAIL PROFILE VIEW
SCALE: H:1"=20' V:1"=4'



1B TRAIL PROFILE VIEW
SCALE: H:1"=20' V:1"=4'

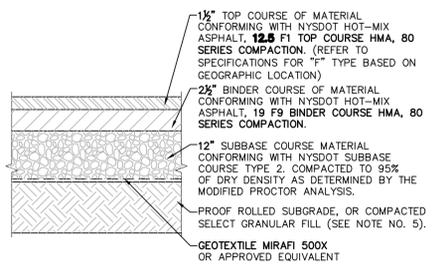


2 SECTION A-A
SCALE: H:1"=20' V:1"=20'

REVISIONS		
Rev#	Description	Date:

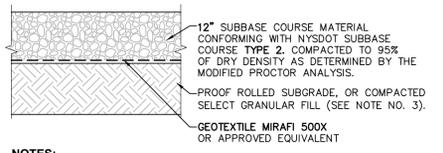
Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title:	Drawing Number:
Site Details	C-500
Project Number: 2220842	Sheet: 8 of 14



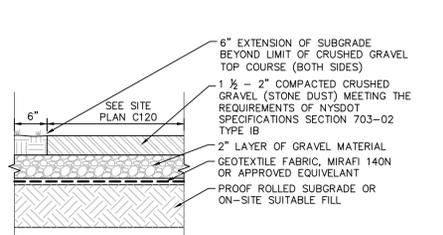
- NOTES:**
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO.
 - SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
 - HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
 - TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 - WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 - PAVEMENT SECTION SHOWN IS PRELIMINARY. PRIOR TO BIDDING AND COMMENCEMENT OF CONSTRUCTION, THE FINAL DESIGN OF THE PAVEMENT SECTION MUST BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER AND MUST BE BASED ON A CURRENT GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

1 ASPHALT PAVEMENT SECTION DETAIL
 SCALE: NOT TO SCALE

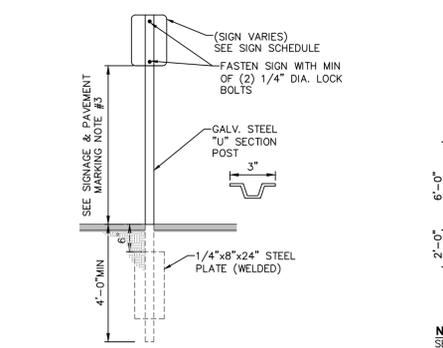


- NOTES:**
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO.
 - SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
 - WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

2 GRAVEL DRIVE SECTION DETAIL
 SCALE: NOT TO SCALE



3 STONE DUST TRAIL SECTION
 SCALE: NOT TO SCALE



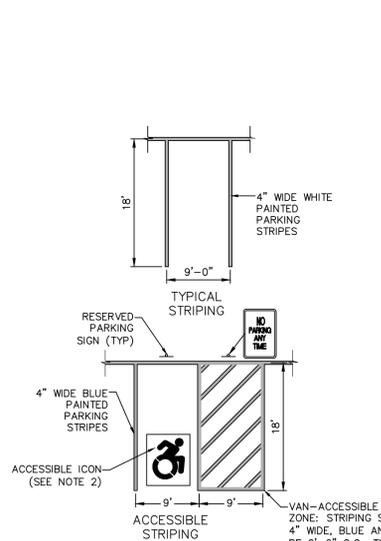
4 SINGLE POST SIGN MOUNTING DETAIL
 SCALE: NOT TO SCALE

- STRIPING NOTES:**
- ALL STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 640 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
 - STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.
 - STRIPING WORK SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECS SECTION 730.
- SIGNAGE NOTES:**
- ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 645 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
 - SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
 - SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SPECS SECTION 730.

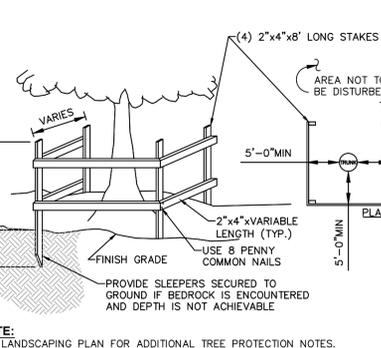
MUTCD SIGN SCHEDULE

SIGN NO.	SIGN FACE	MUTCD NUMBER	MIN SIZE	COLORS BCK GRND	LEGEND	MOUNTING
1	RESERVED PARKING	NY R7-8D	12"x18"	WHITE/BLUE	GREEN/WHITE	4 (C500)
2	VAN ACCESSIBLE	R7-8P	12"x6"	WHITE	BLUE	4 (C500)
3	NO PARKING ANY TIME	R7-1	12"x18"	WHITE	RED	4 (C500)

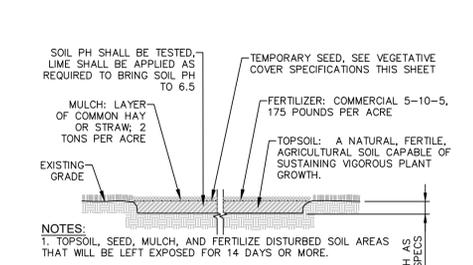
5 MUTCD SIGN SCHEDULE
 SCALE: NOT TO SCALE



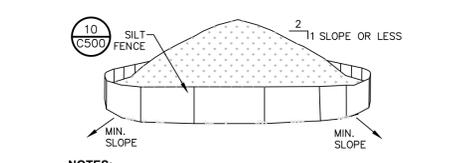
6 PAVEMENT MARKING DETAIL PARKING STRIPING
 SCALE: NOT TO SCALE



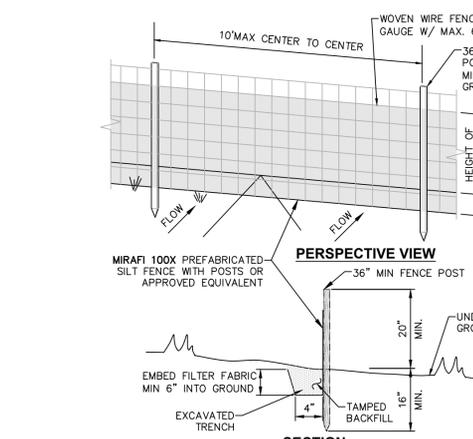
7 TEMPORARY TREE PROTECTION DETAIL
 SCALE: NOT TO SCALE



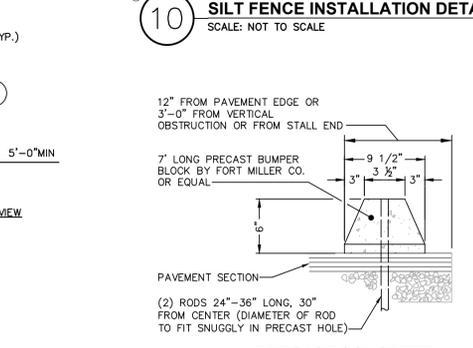
8 TEMPORARY TOPSOIL, FERTILIZER, SEED & MULCH DETAIL
 SCALE: NOT TO SCALE



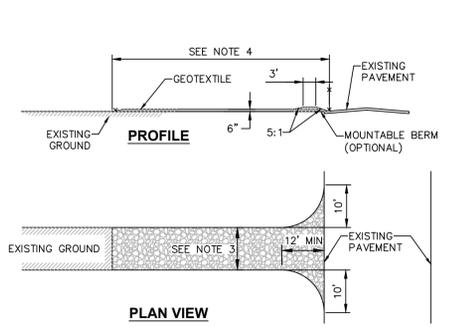
9 TEMPORARY SOIL STOCKPILE DETAIL
 SCALE: NOT TO SCALE



10 SILT FENCE INSTALLATION DETAIL
 SCALE: NOT TO SCALE



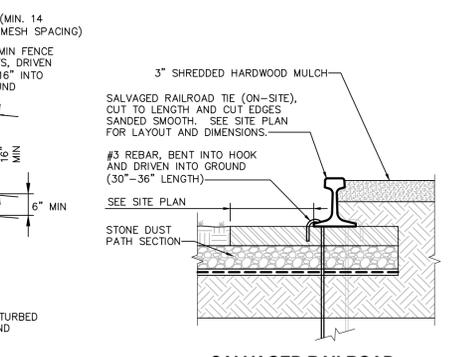
11 PRECAST CONCRETE WHEEL STOP
 SCALE: NOT TO SCALE



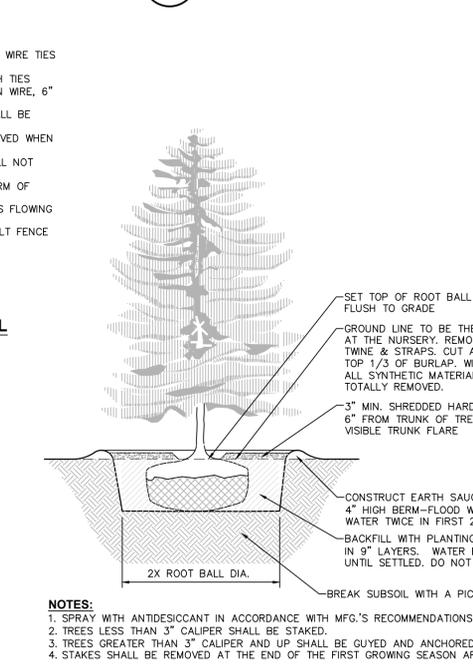
13 STABILIZED CONSTRUCTION ACCESS DETAIL
 SCALE: NOT TO SCALE

- CONSTRUCTION ENTRANCE SPECIFICATIONS:**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY FOUR (24) FEET IF SINGLE ENTRANCE TO SITE.
 - LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
 - GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

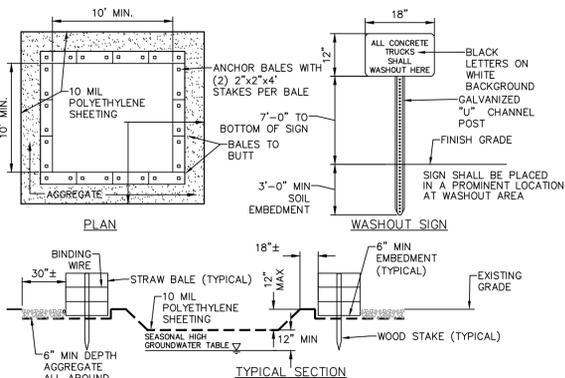
13 STABILIZED CONSTRUCTION ACCESS DETAIL
 SCALE: NOT TO SCALE



14 SALVAGED RAILROAD TRACK CURBING
 SCALE: NOT TO SCALE



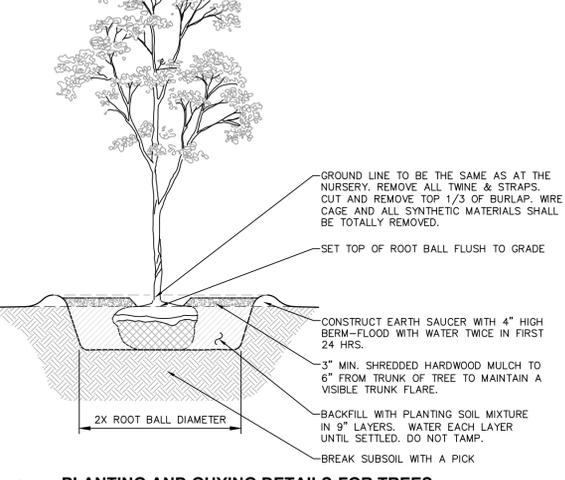
15 EVERGREEN PLANTING DETAIL
 SCALE: NOT TO SCALE



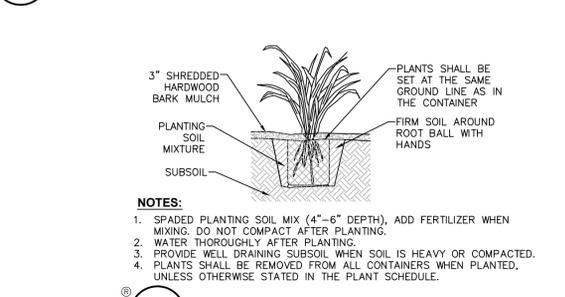
16 CONCRETE WASHOUT AREA DETAIL
 SCALE: NOT TO SCALE

- NOTES:**
- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
 - CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
 - WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL. THIS INCLUDES REPLACEMENT OF THE 10 MIL POLYETHYLENE SHEETING.
 - WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
 - ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
 - AT LEAST WEEKLY, REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

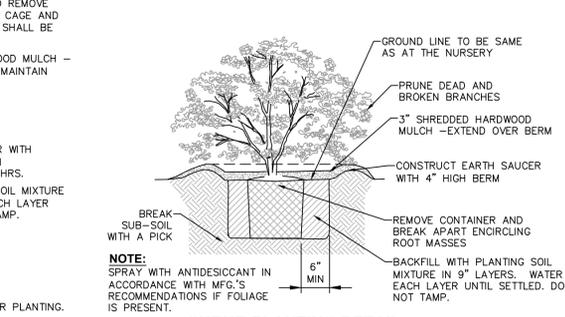
16 CONCRETE WASHOUT AREA DETAIL
 SCALE: NOT TO SCALE



17 PLANTING AND GUYING DETAILS-FOR TREES SMALLER THAN 3" CALIPER, BALLED AND BURLAPPED
 SCALE: NOT TO SCALE



18 CONTAINERIZED PERENNIAL PLANTING
 SCALE: NOT TO SCALE



19 SHRUB PLANTING DETAIL FOR CONTAINERIZED SHRUBS
 SCALE: NOT TO SCALE

GENERAL NOTES:

- THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE RELATED PROVISIONS OF THE UNIFORM FIRE PREVENTION CODE AND 2020 BUILDING CODE OF NEW YORK STATE WHICH ADOPTS STANDARDS INCLUDING ASCE STANDARD (ASCE/SEI 7-10) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- THE STRUCTURAL SYSTEM DEPICTED ON THE DRAWINGS IS STABLE IN ITS FINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION INCLUDING ANY TEMPORARY BRACING OR SHORING NECESSARY TO MAINTAIN A STABLE STRUCTURE AND SAFE WORK ENVIRONMENT DURING CONSTRUCTION.
- MEANS AND METHODS OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO TEMPORARY BRACING/ SHORING, RIGGING, TEMPORARY WORK PLATFORMS, CREATING AND MAINTAINING STAGING AND TEMPORARY WORK AREAS ETC.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.
- DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. TREAT SIMILAR CONDITIONS SIMILARLY AND CONTACT THE ENGINEER WITH ANY QUESTIONS.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERE TO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), AND APPLICABLE LOCAL SAFETY AND HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK IN ADDITION TO ANY AND ALL "HOUSE RULES" AS REQUIRED BY OWNER.
- THE GENERAL CHARACTER AND EXTENT OF THE WORK IS SHOWN ON THE CONTRACT DRAWINGS; HOWEVER, THE CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS REGARDLESS OF WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS.

SPECIAL INSPECTION NOTES:

- THE OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THE PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS AS NECESSARY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE 2020 BCNYS.
- IN ADDITION TO SPECIAL INSPECTIONS, INSPECTION OF FOUNDATIONS, FOOTINGS, SLABS AND UNDERSLAB FLOOR ELEVATION, FRAMING, LATH AND GYPSUM BOARD, FIRE-RESISTANCE AND PENETRATIONS, ENERGY EFFICIENCY, PRELIMINARY AND FINAL INSPECTIONS MAY BE REQUIRED AND/OR PROVIDED BY THE LOCAL BUILDING OFFICIAL PER THE REQUIREMENTS OF THE NYS UNIFORM CODES. THE LOCAL BUILDING OFFICIAL MAY REQUIRE ADDITIONAL INSPECTIONS TO ASCERTAIN COMPLIANCE WITH THE PROVISIONS OF THE CODE. ALL INSPECTIONS REQUIRED AND/OR PROVIDED BY THE LOCAL BUILDING OFFICIAL SHALL BE AGREED UPON IN WRITING PRIOR TO THE START OF CONSTRUCTION.
- SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS AND THE SCHEDULE OF SPECIAL INSPECTIONS AND SPECIFICATIONS TO BE SUBMITTED WITH THE CONTRACT DOCUMENTS AND THE APPLICATION FOR BUILDING PERMIT TO THE CODE ENFORCEMENT OFFICIAL. LOCAL BUILDING OFFICIALS CANNOT PROVIDE SPECIAL INSPECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING INSPECTION AGENCIES WHEN WORK IS READY FOR INSPECTION WITH AT LEAST 48 HOUR NOTICE OR AS AGREED UPON PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCESS AND MEANS FOR INSPECTION INCLUDING ACCESS TO THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REPLACEMENT OF ANY MATERIALS REQUIRED TO ALLOW INSPECTIONS.
- REFER TO THE SCHEDULE OF SPECIAL INSPECTIONS AND TO THE SPECIFICATIONS FOR REQUIRED SPECIAL INSPECTIONS AND TESTING. SPECIAL INSPECTIONS AND TESTING SHALL BE CONTINUOUS OR PERIODIC DURING THE PERFORMANCE OF THE WORK, AS NOTED.
- THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUBCONTRACTORS TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE. A SEPARATE MEETING WITH THE LOCAL BUILDING OFFICIAL TO REVIEW INSPECTION REQUIREMENTS, AND TO CONFIRM THE ROLES AND RESPONSIBILITIES OF THE TESTING AGENCIES AND BUILDING OFFICIALS.
- THE SPECIAL INSPECTOR SHALL SUBMIT INTERIM AND FINAL REPORTS AND, AT COMPLETION OF SPECIAL INSPECTIONS, A FINAL STATEMENT OF SPECIAL INSPECTIONS. REPORTS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH TO CODE ENFORCEMENT OFFICIALS, AND THE THE ENGINEER OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES. SUBSEQUENT REPORTS SHALL NOTE WHEN AND HOW DISCREPANCIES WERE CORRECTED. THE SPECIAL INSPECTOR SHALL NOTIFY THE ENGINEER AND THE CODE ENFORCEMENT OFFICIAL OF DISCREPANCIES WHICH HAVE NOT BEEN CORRECTED.
- THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.
- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE CODE ENFORCEMENT OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT IN ACCORDANCE WITH BCNYS CHAPTER 17 "CONTRACTOR RESPONSIBILITY".
- SPECIAL INSPECTIONS NOTED ON STRUCTURAL SHEETS ARE FOR STRUCTURAL SYSTEMS ONLY. SPECIAL INSPECTIONS MAY BE REQUIRED FOR NON-STRUCTURAL COMPONENTS SUCH AS SPRAY-ON FIRE RESISTANCE. NON-STRUCTURAL INSPECTIONS ARE BY OTHERS, SEE ARCHITECTURAL AND OTHER TRADES FOR ADDITIONAL INFORMATION.

SUBMITTAL NOTES:

- SUBMITTALS OF SHOP DRAWINGS AND PRODUCT DATA ARE REQUIRED FOR ALL MATERIALS, SYSTEMS AND COMPONENTS AS SHOWN AND FOR DELEGATED DESIGN ELEMENTS.
- SUBMITTALS SHALL BE MADE AND SUBMITTED IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ENGINEER PRIOR TO ONSET OF FABRICATION.
- PRIOR TO SUBMISSION TO ENGINEER, CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY ENGINEER AND THEREFORE MUST BE VERIFIED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY DETAILER AND PROVIDE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO ENGINEER.
- ONCE CONTRACTOR HAS COMPLETED CONTRACTOR'S REVIEW, ENGINEER WILL REVIEW SUBMITTAL FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND CONTRACT DOCUMENTS OF BUILDING AND WILL STAMP SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT CONSTITUTE AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS NOR DEPARTURES THERE FROM. NO FABRICATION SHALL COMMENCE UNTIL ALL RELEVANT SUBMITTALS HAVE BEEN REVIEWED BY ENGINEER AND STAMPED WITH NO EXCEPTIONS TAKEN.
- WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO REQUIREMENTS OF STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND CERTIFIED BY A NEW YORK STATE LICENSED AND REGISTERED PROFESSIONAL ENGINEER.
- ALL ELEMENTS, PIECES, PROCESSES AND SYSTEMS SHALL BE SUBMITTED FOR REVIEW IN THE FORM OF SHOP DRAWINGS, CUT SHEETS AND/ OR MANUFACTURER PRODUCT LITERATURE AS APPROPRIATE.
- REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

DESIGN CRITERIA:

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE UNIFORM CODE OF NEW YORK STATE AND ITS REFERENCE STANDARDS.

DESIGN BASIS
GOVERNING CODE.....2020 BCNYS
BUILDING INFORMATION
RISK CATEGORY.....II

DESIGN CRITERIA
(ALL LOADS PROVIDED BELOW ARE SERVICE-LEVEL LOADS)
DEAD LOADS:
PRIMARY STRUCTURE.....SELF-WEIGHT

LIVE LOADS:
BOARDWALK.....60 PSF
RAILING POST.....50 PLF / 200 LBS

SNOW LOADS:
GROUND SNOW LOAD (Pg).....30 PSF
BUILDING EXPOSURE.....EXP C, FULLY EXPOSED
EXPOSURE FACTOR (Ce).....1.0
IMPORTANCE FACTOR (Ie).....1.0
THERMAL FACTOR (ct).....1.2

WIND LOADS:
RISK CATEGORY.....II
ULTIMATE WIND SPEED (3-SECOND GUST, Vult).....113 MPH
NOMINAL WIND SPEED (Vasd).....(0.6)^{1/2}Vult
EXPOSURE CATEGORY.....C

EARTHQUAKE DESIGN DATA
RISK CATEGORY.....II
IMPORTANCE FACTOR (Ie).....1.0
MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S_s).....0.277g
MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1-SECOND PERIODS (S₁).....0.06g
SITE CLASS.....8
SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S_{ds}).....0.166g
SPECTRAL RESPONSE ACCELERATION FOR 1-SECOND PERIODS (S_{d1}).....0.032g
SEISMIC DESIGN CATEGORY.....C
BASIC SEISMIC FORCE RESISTING SYSTEM.....TYPE H ASSUME
RESPONSE MODIFICATION FACTOR (R).....3.0
DESIGN BASE SHEAR.....5.6KIPS
ANALYSIS PROCEDURE.....EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN OF NON-STRUCTURAL COMPONENTS.....PER ASC7-10 CHAPTER 13

FLOOD DESIGN DATA
FLOOD DESIGN CLASS.....CLASS 2
FLOOD ZONE.....AE
100-YEAR BASE FLOOD ELEVATION.....9'
DESIGN FLOOD ELEVATION.....12'
FFE.....VARIES FROM 8.4' TO 14'
WATER VELOCITY IS ASSUMED LESS THAN 10FT/SEC. CONSIDERING OPEN MARSH LAND AND NO HYDRAULIC GRADIENT.

SOILS AND FOUNDATION NOTES:

- CONFORM TO BCNYS CHAPTER 18 "SOILS AND FOUNDATIONS".
- RECOMMENDATIONS CONTAINED IN THE MEMORANDUM TITLED "IONA ISLAND TRAIL - GEOTECHNICAL MEMORANDUM OF FINDINGS" PREPARED BY THE CHAZEN COMPANIES DATED DECEMBER 15, 2021, HEREINAFTER REFERRED TO AS "GEOTECHNICAL MEMORANDUM."
- FOUNDATIONS SHALL BE FROST PROTECTED.
- ALL SUBGRADES AND PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED PER THE SPECIAL INSPECTION REQUIREMENTS PRIOR TO PLACEMENT OF THE PRECAST CONCRETE FOUNDATIONS. INSPECTOR SHALL PROVIDE A LETTER TO THE ENGINEER STATING THAT SOILS ARE ADEQUATE TO SUPPORT "ALLOWABLE FOUNDATION BEARING PRESSURES(S)."
- CONTRACTOR TO USE OF "MUD MATS" TO MINIMIZE SOIL COMPACTION DURING THE CONSTRUCTION PROCESS.

NOTE SUBJECT TO FURTHER REFINEMENT

WOOD NOTES:

- ALL WOODS AND WOOD CONSTRUCTION SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
1.1. BCNYS 2015 CHAPTER 23.
1.2. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (STANDARDS MANUAL).
1.3. NATIONAL FOREST PRODUCTS ASSOCIATION: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
1.4. US DEPARTMENT OF COMMERCE NIST PS 1 AND PS 2.
1.5. AMERICAN WOOD-PRESERVERS ASSOCIATION STANDARDS.
- STRUCTURAL LUMBER SHALL BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION'S "CONSTRUCTION MANUAL" AND BE PRESSURE TREATED.
- WOOD WITH GRADE LOSS RESULTING FROM EFFECTS OF WEATHERING, HANDLING, STORAGE, RESAWING OR DIVIDING LENGTHS SHALL BE REJECTED.
- ALL LUMBER SHALL BE DRY (MOISTURE CONTENT LESS THAN 19%).
- ALL WOOD SHALL BE PRESERVATIVE TREATED AND SEALED.
- MATERIALS:
6.1. LUMBER..... PRESSURE TREATED NO.1 SPRUCE-PINE-FIR Fb =900psi OR APPROVED EQUAL
- ALL CONNECTORS AND FASTENERS TO BE SIMPSON-STRONG-TIE OR APPROVED EQUAL WITH MAXIMUM FASTENING (FILL ALL HOLES WITH LARGEST APPROVED FASTENERS).
- INSTALL LAG SCREWS IN DRILLED LEAD HOLES WITH A DIAMETER EQUAL TO 3/4 OF THE SHANK DIAMETER (LAG SCREWS SHALL NOT BE HAMMERED IN) WITH WASHERS. HOLES SHALL BE PROPERLY ALIGNED.
- BOLT HOLES SHALL BE DRILLED 1/16" LARGER THAN BOLT DIAMETER. PROVIDE WASHERS. HOLES SHALL BE PROPERLY ALIGNED.
- INSTALL DECK BOARDS WITH NATURAL CUP DOWN (TO SHED WATER).
- ALL CONNECTORS AND FASTENERS SHALL BE MARINE GRADE.
- COMPOSITE DECKING MEETS ASTM D7032 REFERENCE SIMILAR TO GATOR SYSTEM. COLOR BY OWNER.

- SAWING AND SHAPING OF ALL PRESSURE TREATED LUMBER TO BE DONE WITHIN CONSTRUCTION STAGING AREA AS SHOWN ON THE SITE PREPARATION AND REMOVAL PLAN, AND NOT TO BE DONE WITHIN ADJACENT WETLAND OR NEAR ANY WATER BODY TO MINIMIZE SAWDUST ENTERING SAID LOCATIONS. CONTRACTOR TO MAKE BEST EFFORT TO COLLECT DUST AT THE SOURCE WITHIN STAGING AREA.

NOTE SUBJECT TO FURTHER REFINEMENT

QUALITY ASSURANCE NOTES:

- DESIGNER'S AND INSTALLER'S QUALIFICATIONS: THE FIRM THAT PERFORMS THE WORK OF THIS SECTION SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN THE TYPE OF CONSTRUCTION REQUIRED FOR THE WORK OF THIS SECTION AND SHALL HAVE INSTALLED FOUNDATION SYSTEMS FOR AT LEAST 5 PROJECTS OF EQUIVALENT OR GREATER DIFFICULTY AS REQUIRED BY THIS CONTRACT.
- THE FIRM'S SUPERVISING ENGINEER AND SITE FOREMAN OR SUPERINTENDENT FOR THIS PROJECT SHALL HAVE AT LEAST 5 YEARS OF EXPERIENCE IN THIS TYPE OF FOUNDATION WORK.



New York State
Parks, Recreation and
Historic Preservation
Governor Kathy Hochul
Commissioner Erik Kulesseid

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Bear Mountain, NY 10911
(845) 786-2701

Executive Director: Joshua Laird

Project Title:
ADA Trail and Boardwalk
Project ID: PA-BM-2017-003

Project Location:
100 Iona Island Rd
Bear Mountain, New York 10911

Key Plan

REVISIONS

Rev#	Description	Date:

Drawn By: JQ	Seal and Signature
Design By: BGB	
Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title: Boardwalk Notes	Drawing Number: C-510
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Project Number: 2220842	Sheet: 9 of 14
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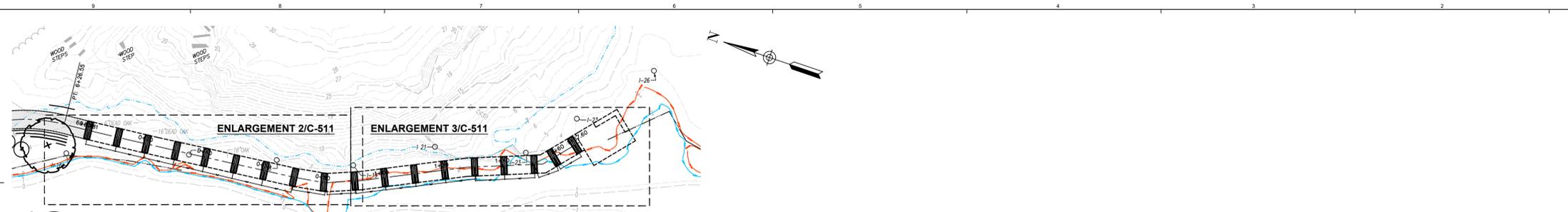
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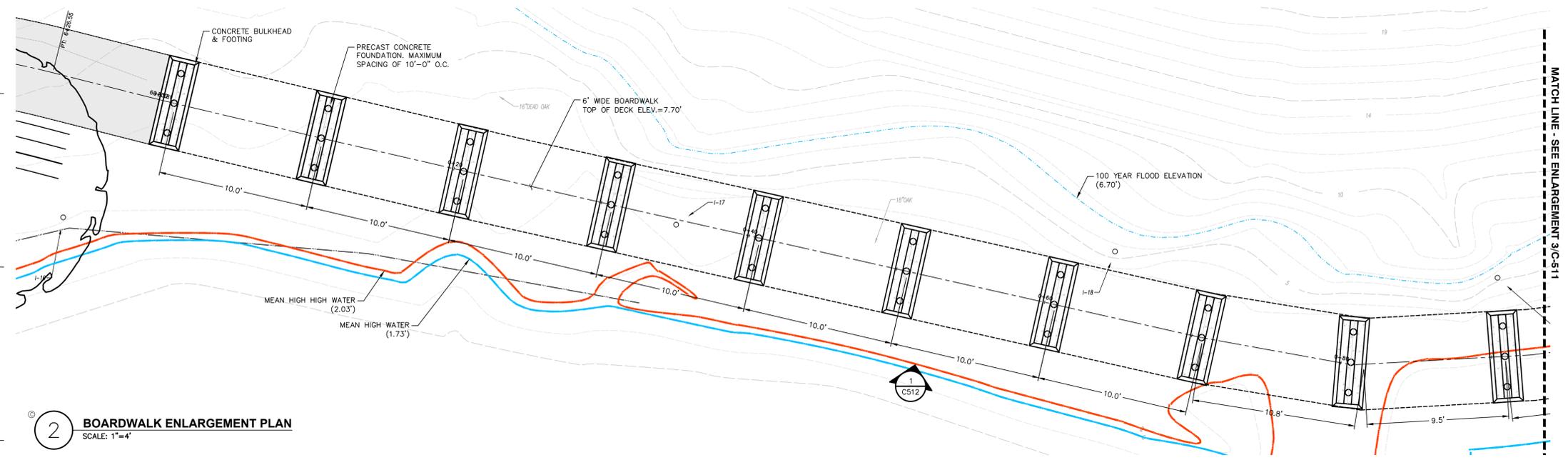
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Checked By: MAK	
Approved By: JAR	
Date: 01.19.2024	

Sheet Title: Boardwalk Enlargement Plans	Drawing Number: C-511
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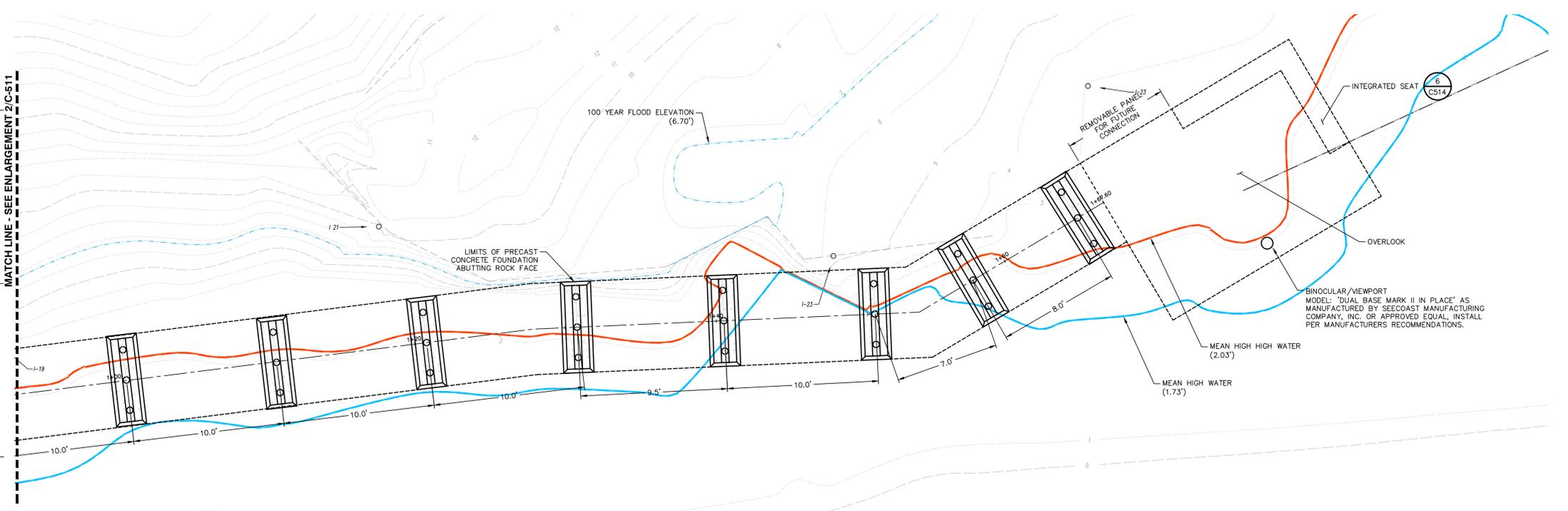
Project Number: 2220842	Sheet: 10 of 14
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1 BOARDWALK ENLARGEMENT KEY PLAN
SCALE: 1"=20'



2 BOARDWALK ENLARGEMENT PLAN
SCALE: 1"=4'



3 BOARDWALK ENLARGEMENT PLAN
SCALE: 1"=4'

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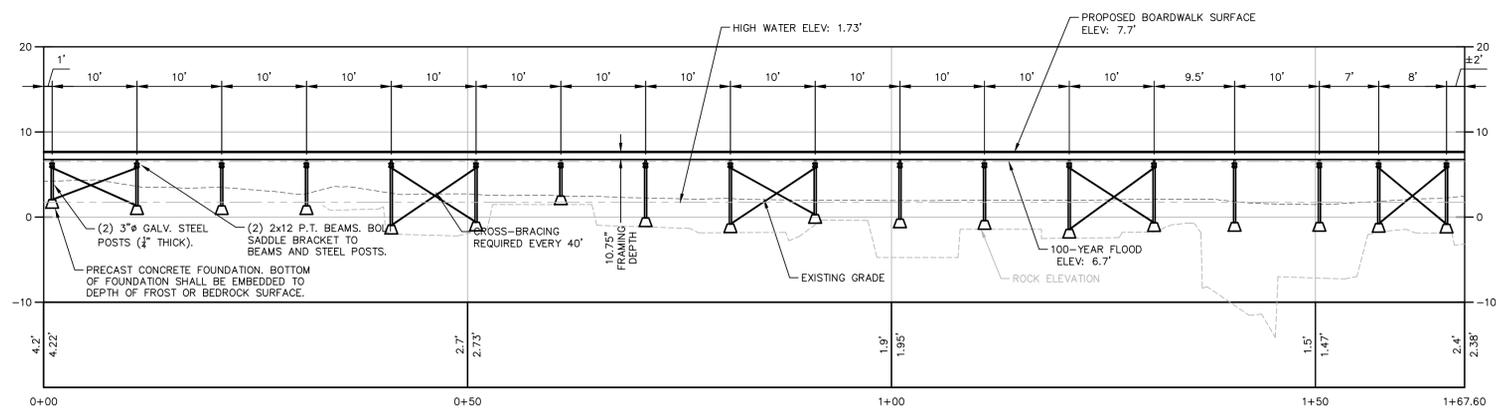
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Sheet Title: Boardwalk Profile	Drawing Number: C-512
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Project Number: 2220842	Sheet: 11 of 14
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1 BOARDWALK PROFILE
SCALE: 1"=10'

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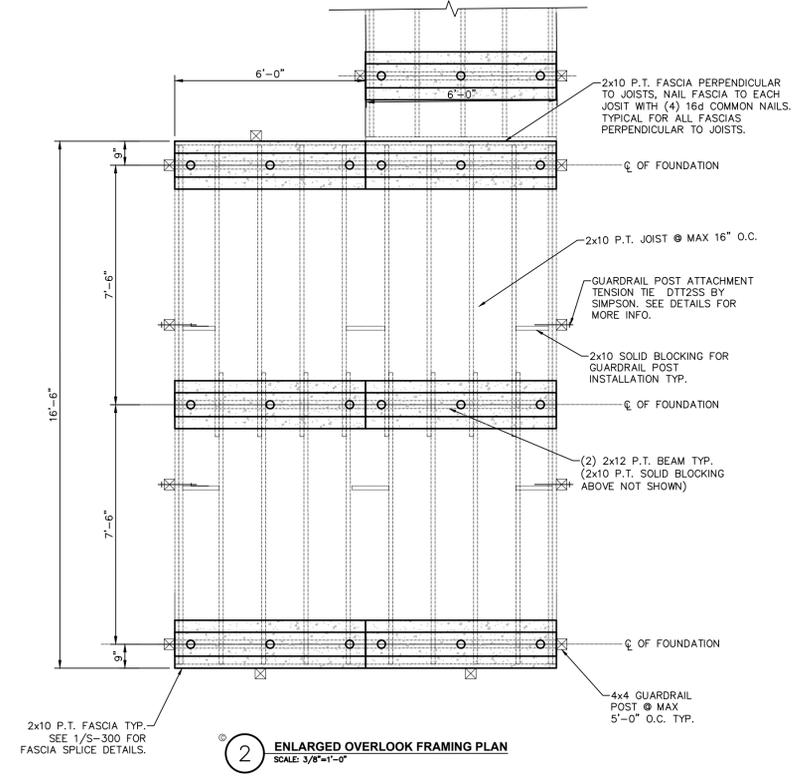
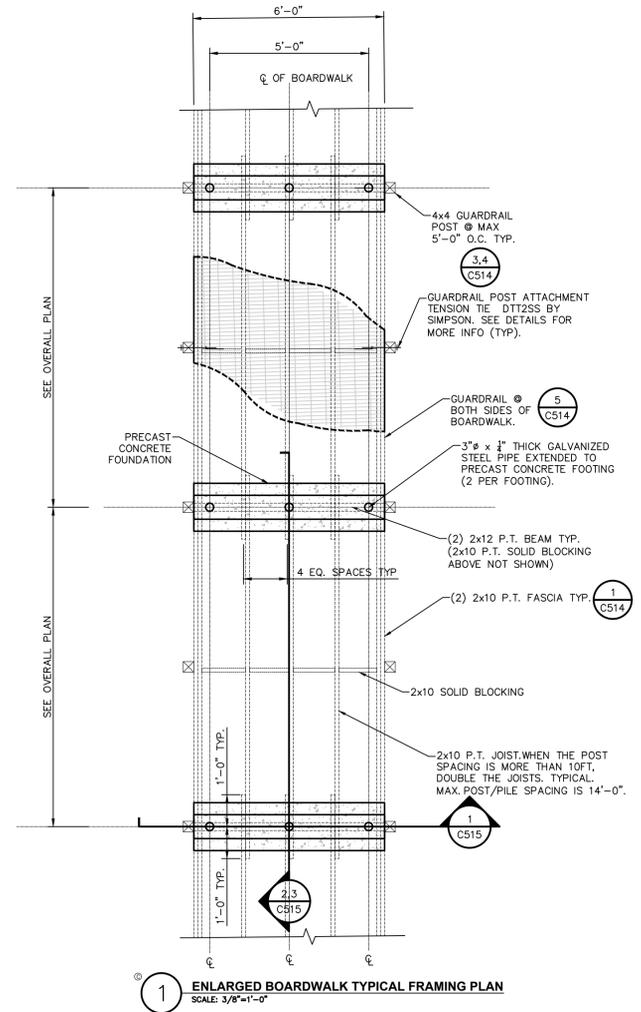
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Drawn By: JQ	Seal and Signature
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Checked By: MAK	
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Sheet Title: Boardwalk Enlarged Partial Plans	Drawing Number: C-513
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Sheet Title: Boardwalk Sections	Drawing Number: C-515
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Project Number: 2220842	Sheet: 14 of 14
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