

Attachment 4c

Breakneck Connector and Bridge Project

Breakneck Bridge Drawings

HUDSON HIGHLANDS FJORD TRAIL BREAKNECK BRIDGE



© GRAY ORGANSCHI ARCHITECTURE

DRAWING SHEET LIST (BNB)	
SHEET NUMBER	DRAWING TITLE
GENERAL	
BNB-G-001	COVER SHEET
BNB-G-010	EXISTING CONDITIONS
BNB-G-011	EXISTING CONDITIONS
BNB-G-100	PARCELS AND EASEMENTS
CIVIL	
BNB-C-001	CIVIL NOTES 1 OF 2
BNB-C-002	CIVIL NOTES 2 OF 2
BNB-C-100	SITE PROTECTION & REMOVALS PLAN
BNB-C-101	SITE PROTECTION & REMOVALS PLAN 2
BNB-C-200	SOIL EROSION & SEDIMENT CONTROL PLAN 1
BNB-C-201	SOIL EROSION & SEDIMENT CONTROL PLAN 2
BNB-C-251	SOIL EMBANKMENT PLAN
BNB-C-300	SITE GRADING & DRAINAGE PLAN 1
BNB-C-301	SITE GRADING & DRAINAGE PLAN 2
BNB-C-302	SITE GRADING & DRAINAGE PLAN 3
BNB-C-400	TEMPORARY PAVEMENT PLAN 1
BNB-C-401	TEMPORARY PAVEMENT PLAN 2
BNB-C-500	CIVIL DETAILS 1
BNB-C-501	CIVIL DETAILS 2
BNB-C-502	CIVIL DETAILS-REINFORCED SOIL SLOPE SECTIONS A&B
BNB-C-503	CIVIL DETAILS-REINFORCED SOIL SLOPE SECTIONS C&D
BNB-C-504	CIVIL DETAILS-REINFORCED SOIL SLOPE SECTIONS E&F
BNB-C-505	CIVIL DETAILS-REINFORCED SOIL SLOPE SECTIONS G&H
BNB-C-506	CIVIL DETAILS-REINFORCED SOIL SLOPE DETAILS
LANDSCAPE	
BNB-L-001	LANDSCAPE NOTES
BNB-L-100	MATERIALS PLAN
BNB-L-101	MATERIALS PLAN
BNB-L-200	LAYOUT PLAN
BNB-L-201	LAYOUT PLAN
BNB-L-401	PLANTING PLAN
BNB-L-402	PLANTING SCHEDULE
BNB-L-500	SOILS PLAN
BNB-L-501	SOILS PLAN
BNB-L-700	BRIDGE LANDING ENLARGEMENT
BNB-L-800	SECTIONS
BNB-L-801	SECTIONS
BNB-L-900	DETAILS - PAVEMENT
BNB-L-901	DETAILS - 9D ROADSIDE
BNB-L-902	DETAILS - FENCES
BNB-L-903	DETAILS - SHOTCRETE
BNB-L-904	DETAILS - SOILS AND PLANTING
ELECTRICAL	
BNB-E-001	ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS
BNB-E-002	ELECTRICAL SCHEDULES
BNB-E-101	ELECTRICAL GROUNDING PLAN
BNB-E-301	ELECTRICAL RISER DIAGRAM
BNB-E-401	ELECTRICAL LIGHTING PLAN SHEET 1
BNB-E-402	ELECTRICAL LIGHTING PLAN SHEET 2
BNB-E-403	ELECTRICAL LIGHTING PLAN SHEET 3
BNB-E-501	ELECTRICAL POWER PLAN SHEET 1
BNB-E-502	ELECTRICAL POWER PLAN SHEET 2
BNB-E-503	ELECTRICAL POWER PLAN SHEET 3
BNB-E-504	ELECTRICAL POWER PLAN SHEET 4
BNB-E-801	ELECTRICAL DETAILS SHEET 1
BNB-E-802	ELECTRICAL DETAILS SHEET 2
BNB-E-803	ELECTRICAL DETAILS SHEET 3
STRUCTURAL	
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BNB-S-102	GENERAL NOTES SHEET 2
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BNB-S-111	GENERAL ARRANGEMENT DEVELOPED ELEVATION
BNB-S-120	GENERAL ARRANGEMENT TYPICAL SECTIONS SHEET 1
BNB-S-121	GENERAL ARRANGEMENT TYPICAL SECTIONS SHEET 2
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BNB-S-301	ABUTMENT #1 LAYOUT SHEET 2
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BNB-S-311	ROUTE 9D RETAINING WALL LAYOUT SHEET 2
BNB-S-320	PIERS #2 TO #5 LAYOUT SHEET 1
BNB-S-321	PIERS #2 TO #5 LAYOUT SHEET 2
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BNB-S-330	ABUTMENT #6 LAYOUT SHEET 1
BNB-S-331	ABUTMENT #6 LAYOUT SHEET 2
BNB-S-340	PIERS #2 AND #3 SHOTCRETE WALL DETAILS
BNB-S-400	STEEL FRAMING PLAN - REFLECTED SOFFIT VIEW SHEET 1
BNB-S-401	STEEL FRAMING PLAN - REFLECTED SOFFIT VIEW SHEET 2
BNB-S-402	STEEL FRAMING PLAN - REFLECTED SOFFIT VIEW SHEET 3
BNB-S-402I	STEEL ISOMETRICS
BNB-S-406	STEEL GIRDER ELEVATION AND PLATE SCHEDULES SHEET 1
BNB-S-407	STEEL GIRDER ELEVATION AND PLATE SCHEDULES SHEET 2
BNB-S-408	STEEL GIRDER ELEVATION AND PLATE SCHEDULES SHEET 3
BNB-S-410	STEEL GIRDER SECTIONS SHEET 1
BNB-S-411	STEEL GIRDER SECTIONS SHEET 2
BNB-S-420	STEEL GIRDER DETAILS SHEET 1
BNB-S-421	STEEL GIRDER DETAILS SHEET 2
BNB-S-422	STEEL GIRDER DETAILS SHEET 3
BNB-S-500	DECK PLAN SHEET 1
BNB-S-501	DECK PLAN SHEET 2
BNB-S-502	DECK PLAN SHEET 3
BNB-S-510	GLT DECK DETAILS SHEET 1
BNB-S-511	GLT DECK DETAILS SHEET 2
BNB-S-520	RAILING AND ENCLOSURE DETAILS SHEET 1
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BNB-S-620	MOVEMENT JOINT DETAILS
BNB-S-650	ACCESS AND MAINTENANCE SHEET 1
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BNB-S-660	TUNED MASS DAMPER PLAN AND DETAILS
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BNB-S-702	CONSTRUCTION SEQUENCE SHEET 3

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Commissioner Erik Killeseid

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Client
HUDSON HIGHLANDS FJORD TRAIL
85 CIVIC CENTER PLAZA, SUITE 300
POUGHKEEPSIE, NY 12601

ft Hudson Highlands Fjord Trail

Client Representative
ABOUT THE WORK
40 EXCHANGE PLACE, SUITE 1405, NEW YORK, NY 10005

About the Work

Structural & Electrical Engineer of Record
ARUP US, INC.
77 WATER ST, NEW YORK, NEW YORK 10005

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SCAPE

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GRAY ORGANSCHI ARCHITECTURE

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LANGAN

Structural Scheme Design
FAST + EPP
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Fast + Epp

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
New York

Project Location: Town of Fishkill
Dutchess County
New York



Contract Numbers
GC Contract Number: D-
HVAC Contract Number: D-
Plumbing Contract Number: D-
Electrical Contract Number: D-

REVISIONS		
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1	30% CONSTRUCTION DOCUMENTS	10/18/2022
2	60% CONSTRUCTION DOCUMENTS	01/26/2023

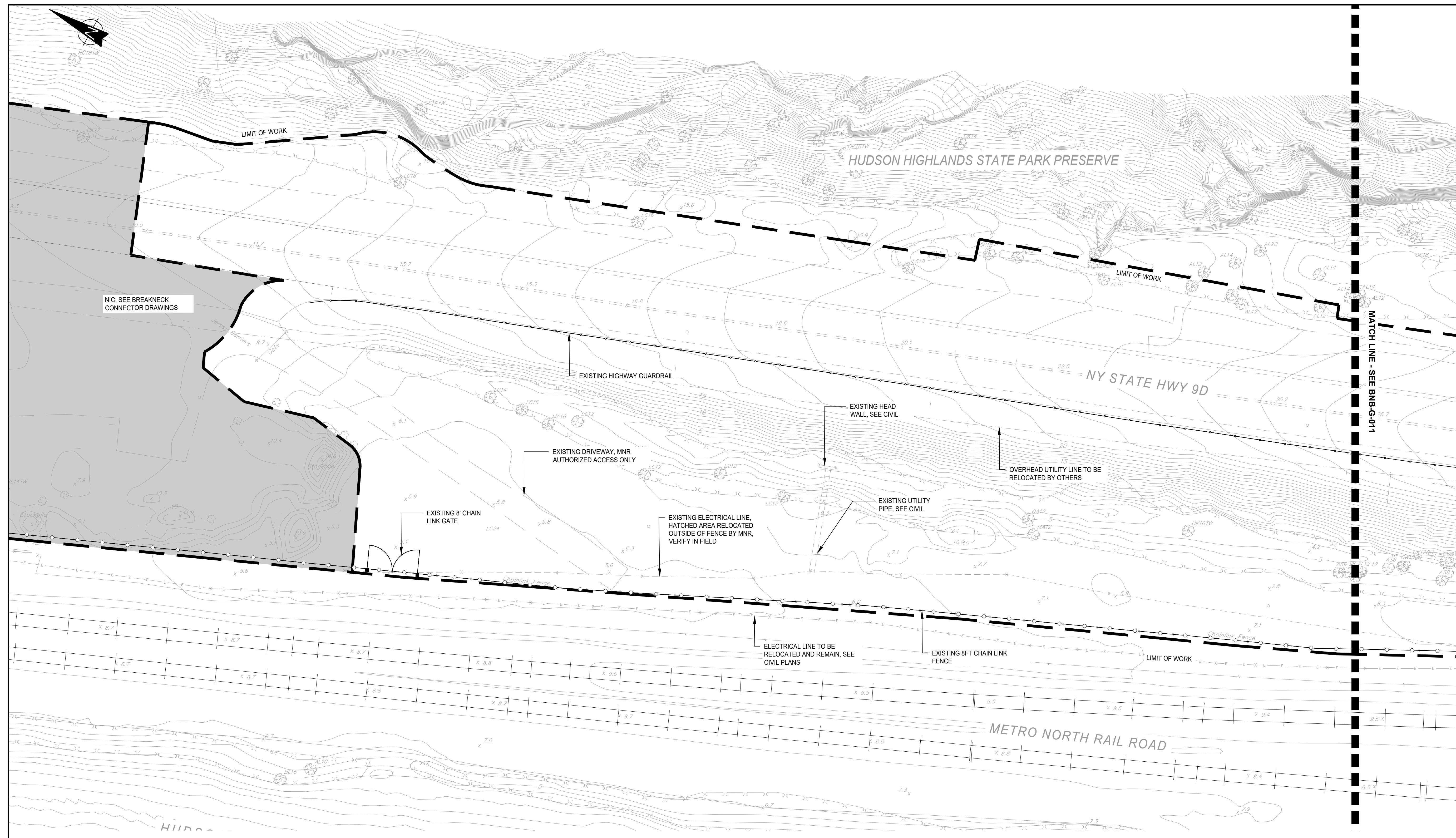
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Design By: KW
Checked By: SP
Approved By: MC
Date: 01/26/23

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Project Number: 288206
Scale:



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Commissioner Erik Kulleseid

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Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

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Civil, Traffic, Geotech & Permitting Engineer
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Structural Scheme Design
FAST + EPP
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
New York

Project Location: Town of Fishkill
Dutchess County
New York

Contract Numbers

GC Contract Number: D-
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Rev. No	Description	Date
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EXISTING CONDITIONS LEGEND

	LIMIT OF WORK		EXISTING HEDGES
	EXISTING HIGHWAY GUIDERAIL TO BE PROTECTED AND REMAIN		EXISTING TREE LINE
	EXISTING 8' HT. MNR FENCE		EXISTING TREE (6" CALIPER & ABOVE). SEE CIVIL PLANS FOR TREE PROTECTION AND REMOVALS
	EXISTING OVERHEAD UTILITY		EXISTING UTILITY BOX
	ELECTRICAL LINE		EXISTING SIGN (SMALL)
	EXISTING DOT ROAD STRIPING		EXISTING SIGN (LARGE)
	EXISTING METRO NORTH RAILROAD TRACKS		EXISTING UTILITY POLE
	EXISTING CONTOUR LINE. SEE GRADING PLANS		EXISTING ROCK OUTCROP
	EXISTING SPOT ELEVATION		

Drawn By: **SCAPE**

Design By: **SCAPE**

Checked By: **SCAPE**

Approved By: **SCAPE**

Date: **1/26/2023**

Sheet Title: **EXISTING CONDITIONS**

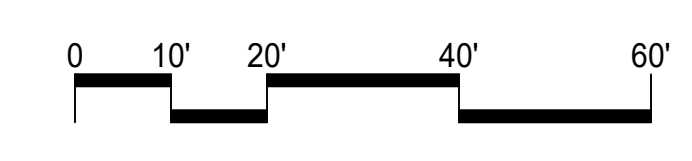
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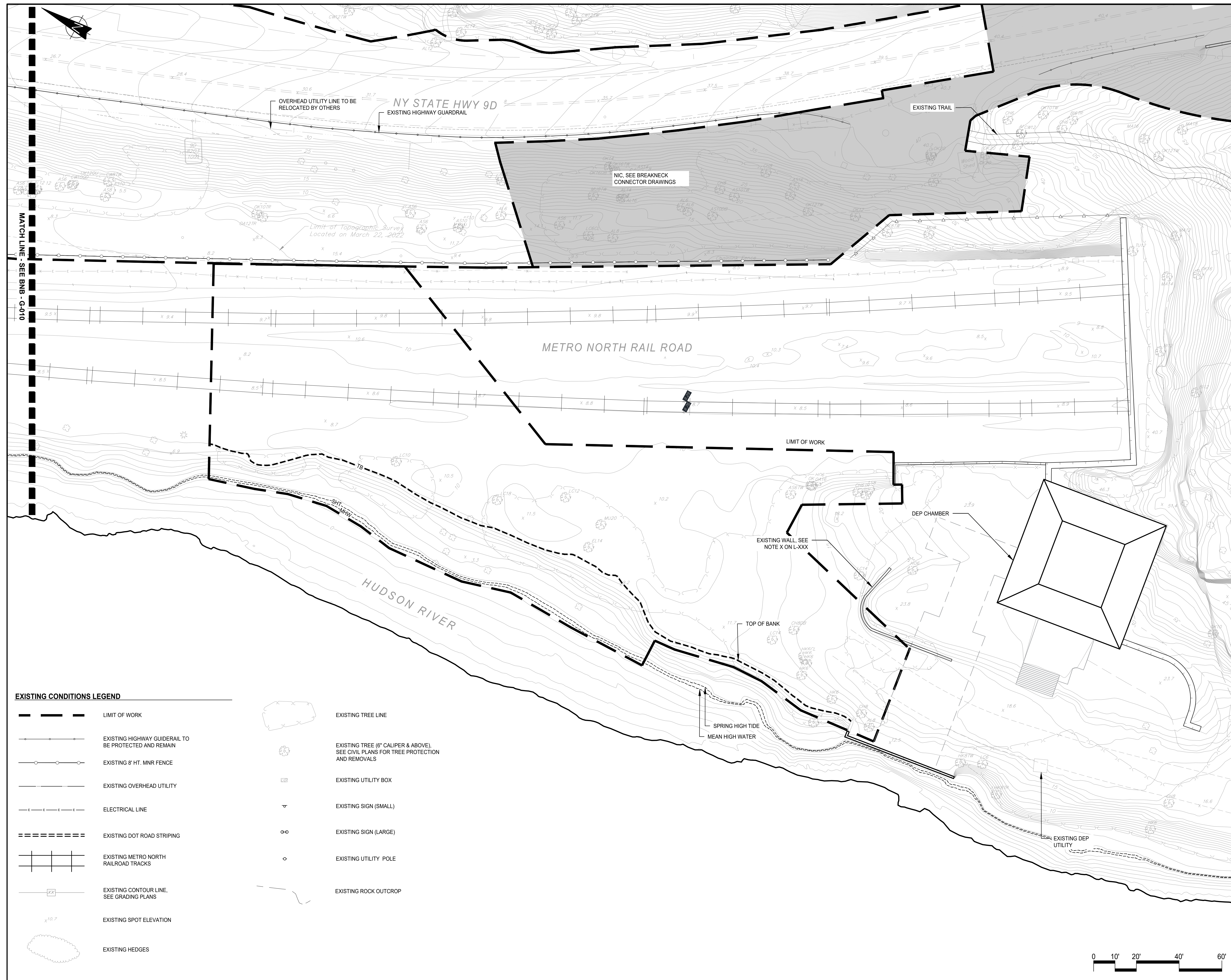
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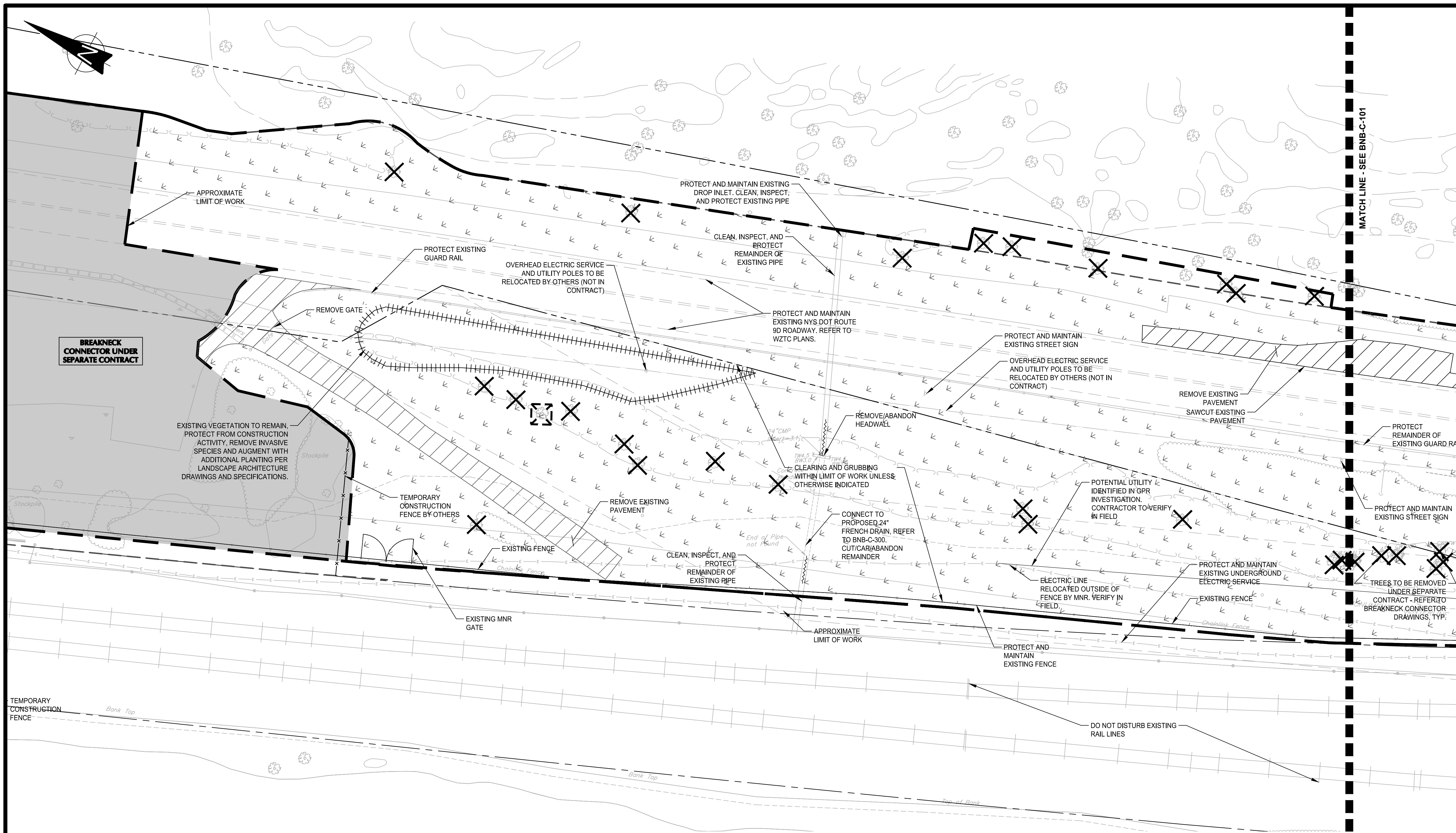




EXISTING CONDITIONS LEGEND

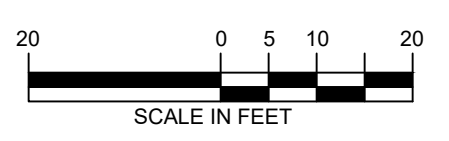
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|--|---|--|--|
| | LIMIT OF WORK | | EXISTING TREE LINE |
| | EXISTING HIGHWAY GUIDERAIL TO BE PROTECTED AND REMAIN | | EXISTING TREE (6" CALIPER & ABOVE), SEE CIVIL PLANS FOR TREE PROTECTION AND REMOVALS |
| | EXISTING 8' HT. MNR FENCE | | EXISTING UTILITY BOX |
| | EXISTING OVERHEAD UTILITY | | EXISTING SIGN (SMALL) |
| | ELECTRICAL LINE | | EXISTING SIGN (LARGE) |
| | EXISTING DOT ROAD STRIPING | | EXISTING UTILITY POLE |
| | EXISTING METRO NORTH RAILROAD TRACKS | | EXISTING ROCK OUTCROP |
| | EXISTING CONTOUR LINE, SEE GRADING PLANS | | |
| | EXISTING SPOT ELEVATION | | |
| | EXISTING HEDGES | | |


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Client HUDSON HIGHLANDS FJORD TRAIL ONE CIVIC CENTER PLAZA, SUITE 200 POUGHKEEPSIE, NY 12601			
Client Representative ABOUT THE WORK 40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005			
Structural & Electrical Engineer of Record ARUP US, INC. 77 WATER ST. NEW YORK, NEW YORK 10005			
Landscape Architect SCAPE LANDSCAPE ARCHITECTURE DPC 277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007			
Survey BADEY & WATSON 3036 ROUTE 9, COLD SPRING, NY 10516			
Architect GRAY ORGANSCHI ARCHITECTURE 35 CROWN STREET, NEW HAVEN, CT 06510			
Civil, Traffic, Geotech & Permitting Engineer LANGAN 360 WEST 31ST STREET, 8TH FL, NEW YORK, NY 10001			
Structural Scheme Design FAST + EPP 411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003			
Project Title:		THE BREAKNECK BRIDGE	
Name of Region:		Dutchess County New York	
Project Location:		Town of Fishkill Dutchess County New York	
Contract Numbers			
GC Contract Number:		D-	
HVAC Contract Number:		D-	
Plumbing Contract Number:		D-	
Electrical Contract Number:		D-	
REVISIONS			
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Design By: SCAPE			
Checked By: SCAPE			
Approved By: SCAPE			
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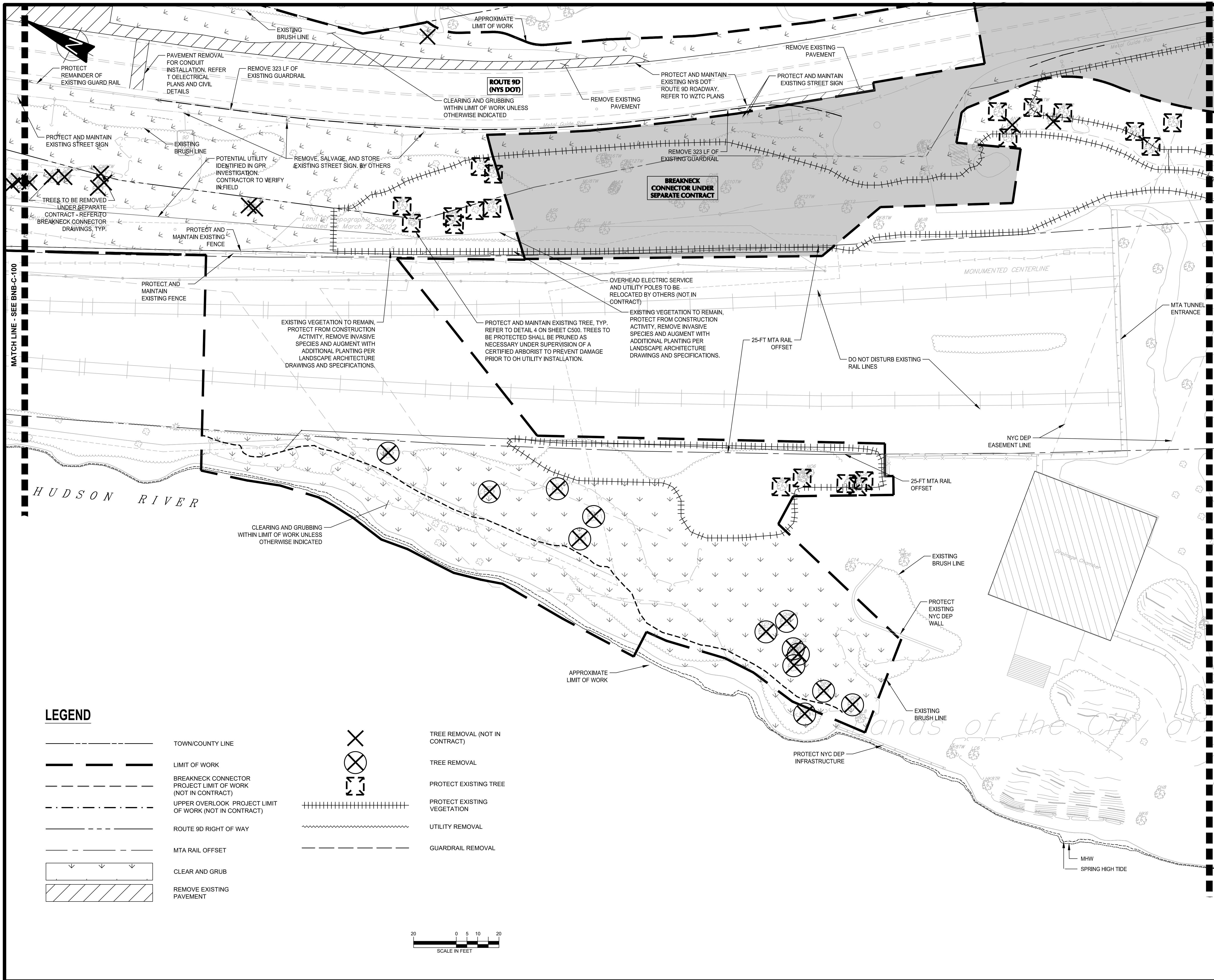


LEGEND

- TOWN/COUNTY LINE
- LIMIT OF WORK
- BREAKNECK CONNECTOR PROJECT LIMIT OF WORK (NOT IN CONTRACT)
- UPPER OVERLOOK PROJECT LIMIT OF WORK (NOT IN CONTRACT)
- ROUTE 9D RIGHT OF WAY
- MTA RAIL OFFSET
- CLEAR AND GRUB
- REMOVE EXISTING PAVEMENT
- ⊗ TREE REMOVAL (NOT IN CONTRACT)
- ⊗ TREE REMOVAL
- ⊗ PROTECT EXISTING TREE
- ⊗ PROTECT EXISTING VEGETATION
- UTILITY REMOVAL
- GUARDRAIL REMOVAL



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<p>Drawn By: AW</p> <p>Design By: LANGAN</p> <p>Checked By: KT</p> <p>Approved By: MOC</p> <p>Date: 1/26/2023</p>	<p>Seal and Signature</p>												
<p>Sheet Title: SITE PROTECTION & REMOVALS PLAN</p> <p>Project Number: 170553202</p>	<p>Drawing Number: BNB-C-100</p> <p>Scale: AS NOTED</p>												



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Client
 HUDSON HIGHLANDS FJORD TRAIL
 ONE CIVIC CENTER PLAZA, SUITE 200
 POUGHKEEPSIE, NY 12601

Client Representative
 ABOUT THE WORK
 40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005

Structural & Electrical Engineer of Record
 ARUP US, INC.
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 360 WEST 31ST STREET, 8TH FL., NEW YORK, NY 10001

Structural Scheme Design
 FAST + EPP
 411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
 New York

Project Location: Town of Fishkill
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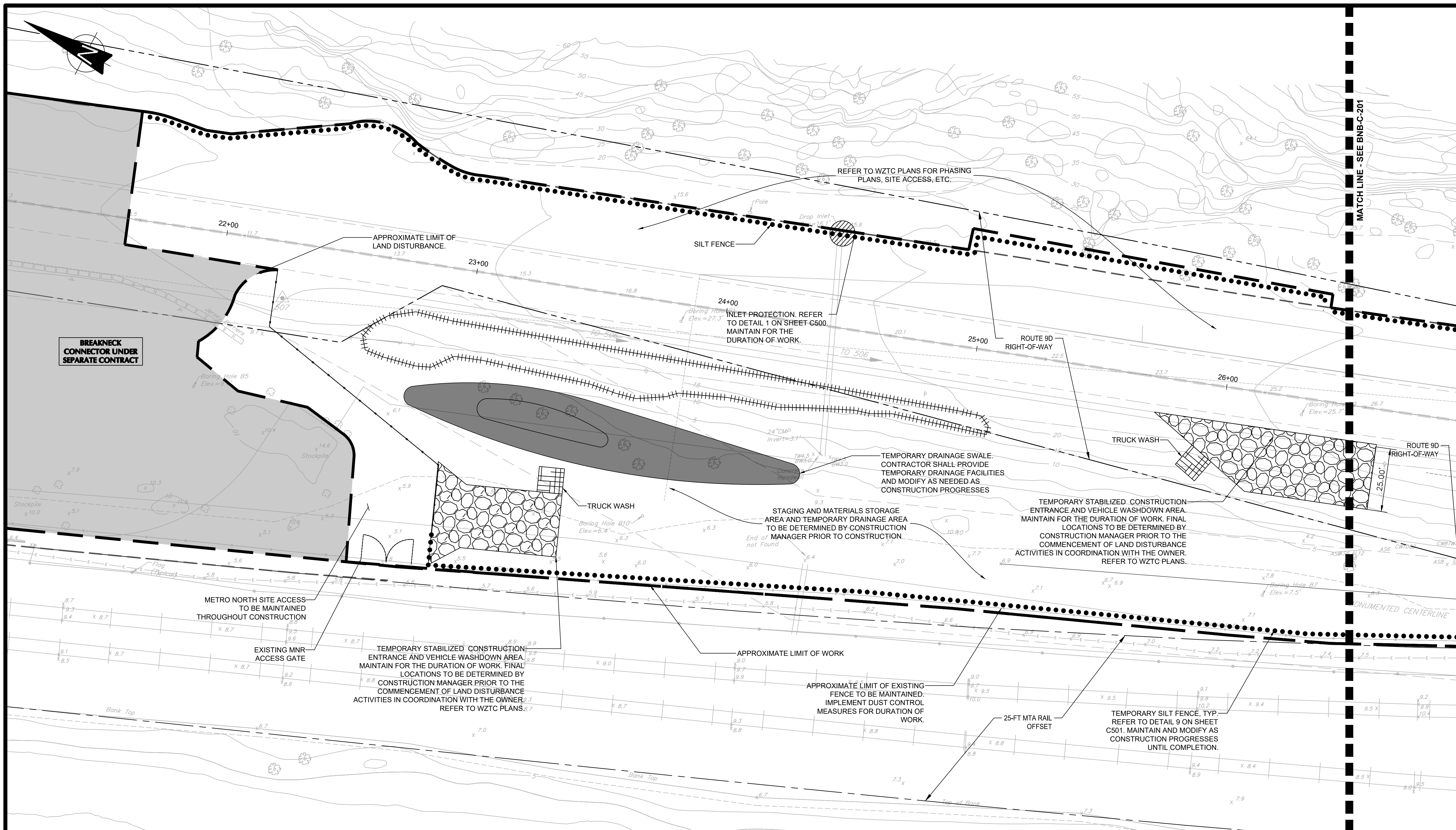
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Design By: LANGAN
Checked By: KT
Approved By: MOC

Date: 1/26/2023

Sheet Title: SITE PROTECTION & REMOVALS PLAN 2
Drawing Number: BNB-C-101

Project Number: 170553202
 Scale: AS NOTED

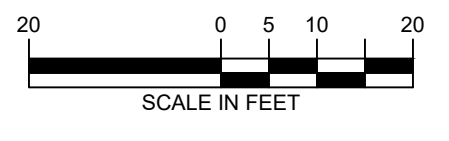
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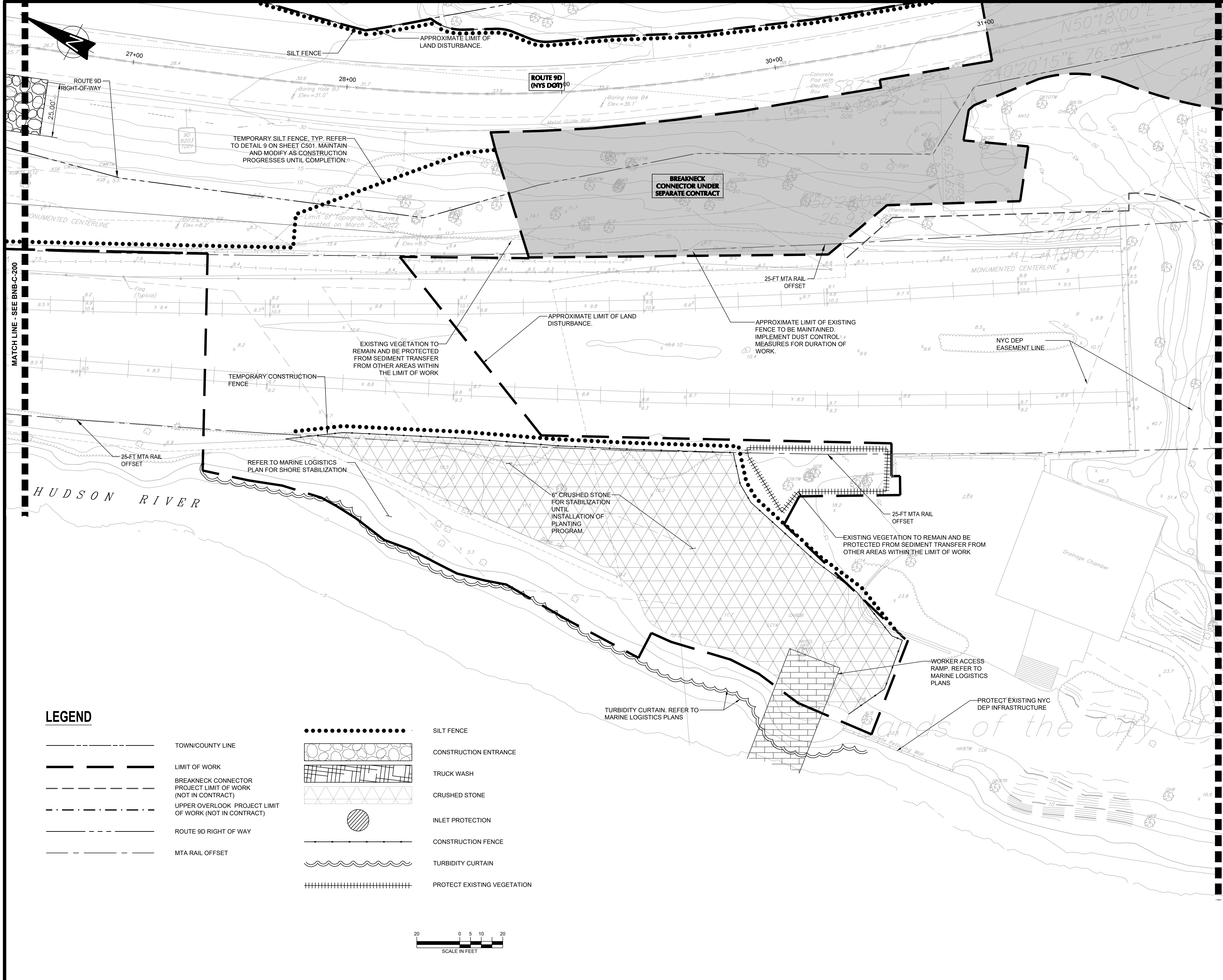
MATCH LINE - SEE BNB-C-201

LEGEND

- TOWN/COUNTY LINE
- LIMIT OF WORK
- BREAKNECK CONNECTOR PROJECT LIMIT OF WORK (NOT IN CONTRACT)
- UPPER OVERLOOK, PROJECT LIMIT OF WORK (NOT IN CONTRACT)
- ROUTE 9D RIGHT OF WAY
- MTA RAIL OFFSET
- SILT FENCE
- CONSTRUCTION ENTRANCE
- TRUCK WASH
- CRUSHED STONE
- INLET PROTECTION
- CONSTRUCTION FENCE
- TURBIDITY CURTAIN
- PROTECT EXISTING VEGETATION



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Client	Hudson Highlands Fjord Trail	
HUDSON HIGHLANDS FJORD TRAIL ONE CIVIC CENTER PLAZA, SUITE 200 POUGHKEEPSIE, NY 12601		
Client Representative	About the Work	
ABOUT THE WORK 40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005		
Structural & Electrical Engineer of Record	ARUP	
ARUP US, INC. 77 WATER ST, NEW YORK, NEW YORK 10005		
Landscape Architect	SCAPE	
SCAPE LANDSCAPE ARCHITECTURE DPC 277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007		
Survey	BADEY & WATSON	
BADEY & WATSON 3036 ROUTE 9, COLD SPRING, NY 10516		
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POUGHKEEPSIE, NY 12601

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277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007

Survey
BADEY & WATSON
3036 ROUTE 9, COLD SPRING, NY 10516

Architect
GRAY ORGANSCHI ARCHITECTURE
35 CROWN STREET, NEW HAVEN, CT 06510

Civil, Traffic, Geotech & Permitting Engineer
LANGAN
360 WEST 31ST STREET, 8TH FL, NEW YORK, NY 10001

Structural Scheme Design
FAST + EPP
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
New York

Project Location: Town of Fishkill
Dutchess County
New York

Contract Numbers
GC Contract Number: D-
HVAC Contract Number: D-
Plumbing Contract Number: D-
Electrical Contract Number: D-

REVISIONS		
Rev. No	Description	Date
1	30% CONSTRUCTION DOCUMENTS	10/18/2022
2	60% CONSTRUCTION DOCUMENTS	1/23/2023

Drawn By: AW	Seal and Signature
Design By: LANGAN	
Checked By: KT	
Approved By: MOC	

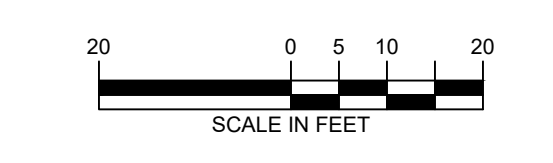
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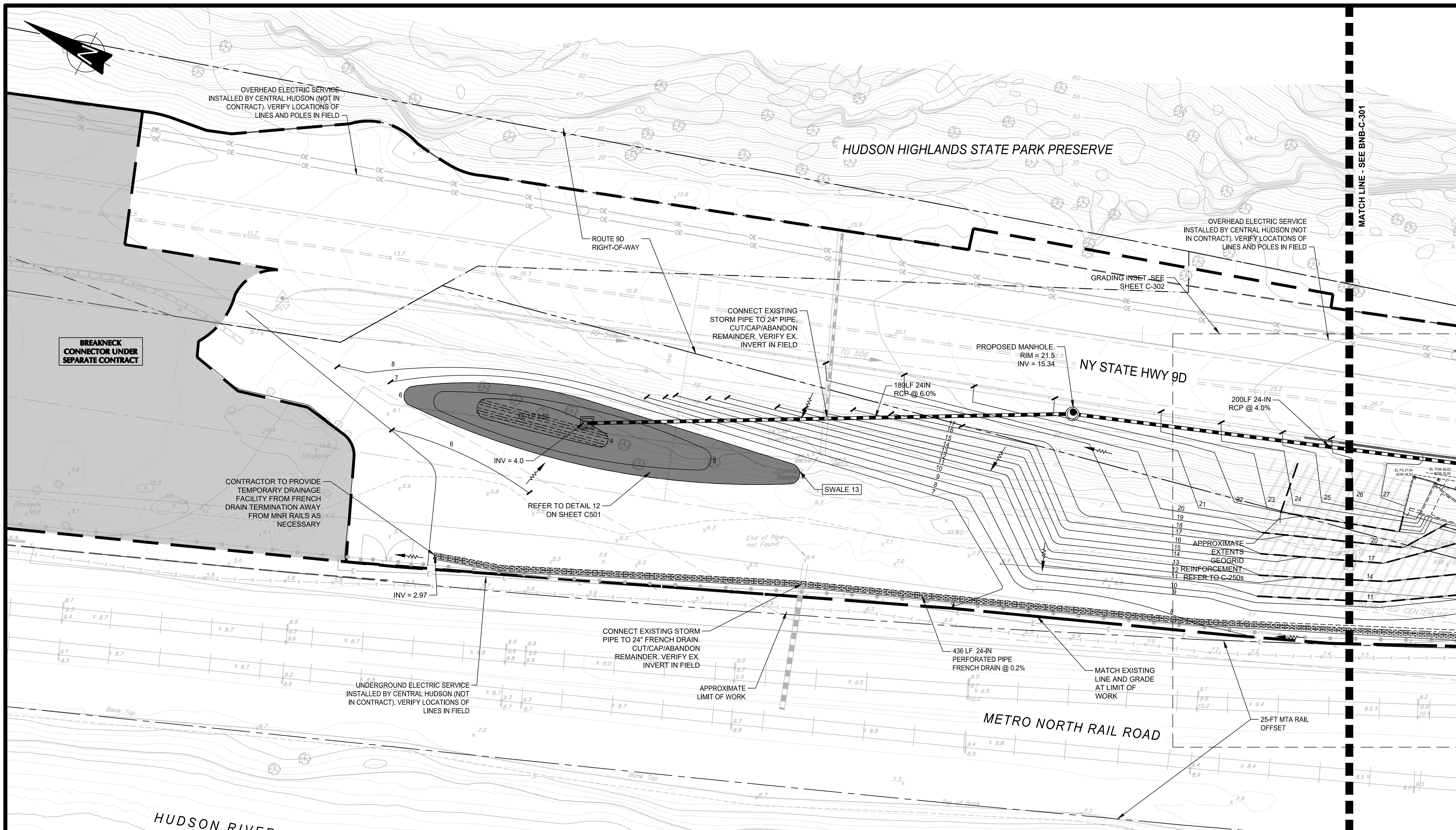
Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN 2	Drawing Number: BNB-C-201
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Project Number: 170553202
Scale: AS NOTED

LEGEND

- TOWN/COUNTY LINE
- LIMIT OF WORK
- BREAKNECK CONNECTOR PROJECT LIMIT OF WORK (NOT IN CONTRACT)
- UPPER OVERLOOK, PROJECT LIMIT OF WORK (NOT IN CONTRACT)
- ROUTE 9D RIGHT OF WAY
- MTA RAIL OFFSET
- SILT FENCE
- CONSTRUCTION ENTRANCE
- TRUCK WASH
- CRUSHED STONE
- INLET PROTECTION
- CONSTRUCTION FENCE
- TURBIDITY CURTAIN
- PROTECT EXISTING VEGETATION





LEGEND

	WATER SERVICE		SLOPE ARROW		TOWN/COUNTY LINE
	ABOVE GROUND ELECTRIC SERVICE		OUTLET CONTROL STRUCTURE		LIMIT OF WORK
	UNDERGROUND ELECTRIC SERVICE		OFFSET CATCH BASIN		BREAKNECK CONNECTOR PROJECT LIMIT OF WORK (NOT IN CONTRACT)
	PVC DRY LINE		HEADWALL		UPPER OVERLOOK PROJECT LIMIT OF WORK (NOT IN CONTRACT)
	STORM PIPE		FLOW ARROW		ROUTE 9D RIGHT OF WAY
	SWALE		CATCH BASIN		MTA RAIL OFFSET
	EXTENT OF SLOPE STABILIZATION				
	UNDERDRAIN				
	RIDGE LINE				
	CONTOUR				
	SPOT ELEVATION				



Governor Kathy Hochul
Commissioner Erik Kuleseid

Client: HUDSON HIGHLANDS FJORD TRAIL, ONE CIVIC CENTER PLAZA, SUITE 200, Poughkeepsie, NY 12601. **Hudson Highlands Fjord Trail**

Client Representative: 40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005. **About the Work**

Structural & Electrical Engineer of Record: ARUP US, INC., 77 WATER ST. NEW YORK, NEW YORK 10005. **ARUP**

Landscape Architect: SCAPE LANDSCAPE ARCHITECTURE DPC, 277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007. **SCAPE**

Survey: BADEY & WATSON, 3036 ROUTE 9, COLD SPRING, NY 10516. **BADEY & WATSON**

Architect: GRAY ORGANSCHI ARCHITECTURE, 35 CROWN STREET, NEW HAVEN, CT 06510. **GRAY ORGANSCHI ARCHITECTURE**

Civil, Traffic, Geotech & Permitting Engineer: LANGAN, 360 WEST 31ST STREET, 8TH FL., NEW YORK, NY 10001. **LANGAN**

Structural Scheme Design: FAST + EPP, 411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003. **Fast + Epp**

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County New York

Project Location: Town of Fishkill Dutchess County New York



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Drawn By: **AW**

Design By: **LANGAN**

Checked By: **KT**

Approved By: **MOC**

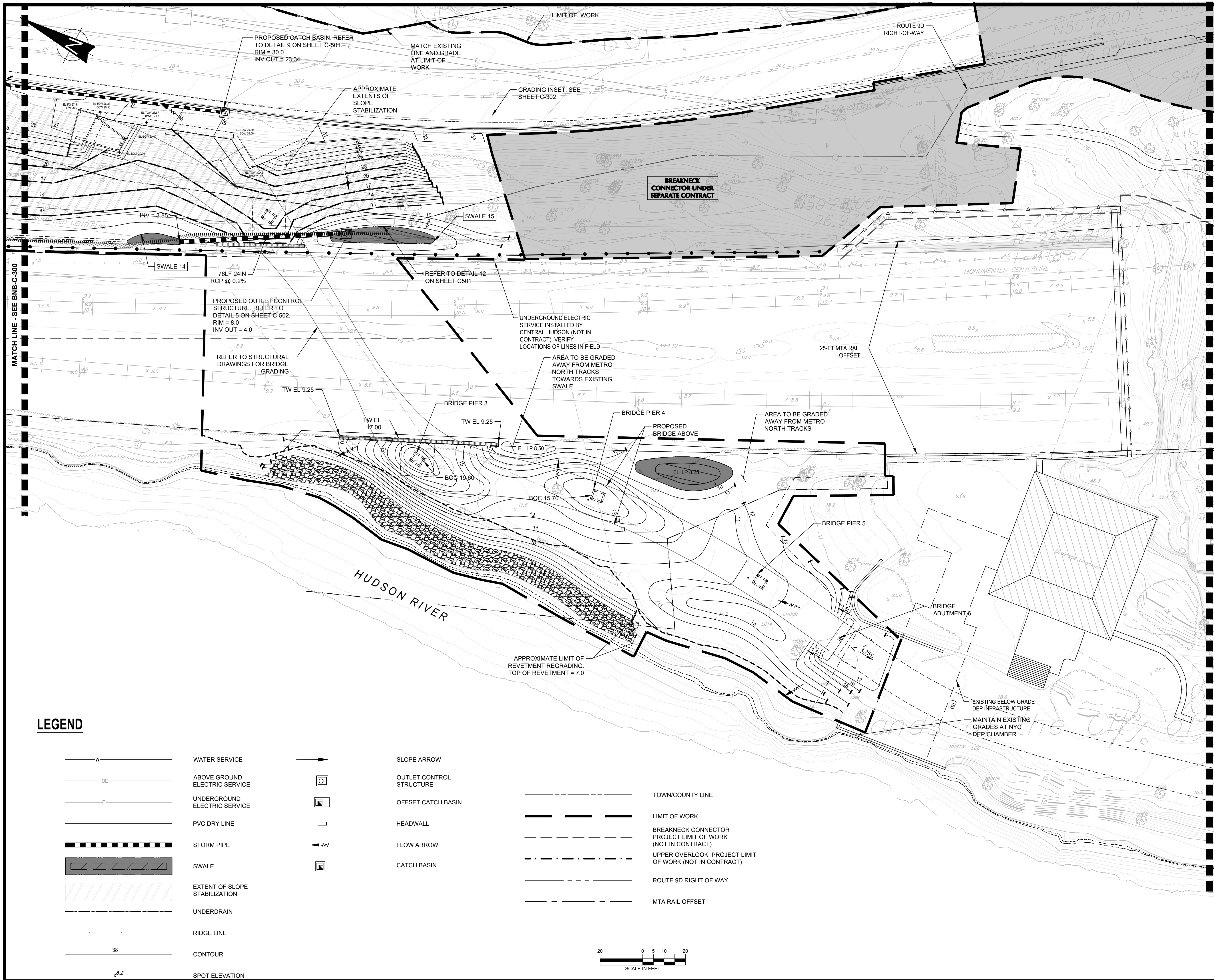
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Sheet Title: **SITE GRADING & DRAINAGE PLAN 1**

Drawing Number: **BNB-C-300**

Project Number: **170553202**

Scale: **AS NOTED**



Governor Kathy Hochul
Commissioner Erik Kuleseid

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Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

Client Representative
ABOUT THE WORK
40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005

Structural & Electrical Engineer of Record
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Structural Scheme Design
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411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

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New York

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Dutchess County
New York

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Drawn By: AW	Seal and Signature
Design By: LANGAN	
Checked By: KT	
Approved By: MOC	
Date: 1/26/2023	Drawing Number: BNB-C-301
Sheet Title: SITE GRADING & DRAINAGE PLAN 2	
Project Number: 170553202	Scale: AS NOTED

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Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

Hudson Highlands Fjord Trail

Client Representative
ABOUT THE WORK
40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005

About the Work

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Landscape Architect

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Structural Scheme Design

Fast + Epp
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
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Project Location: Town of Fishkill
Dutchess County
New York

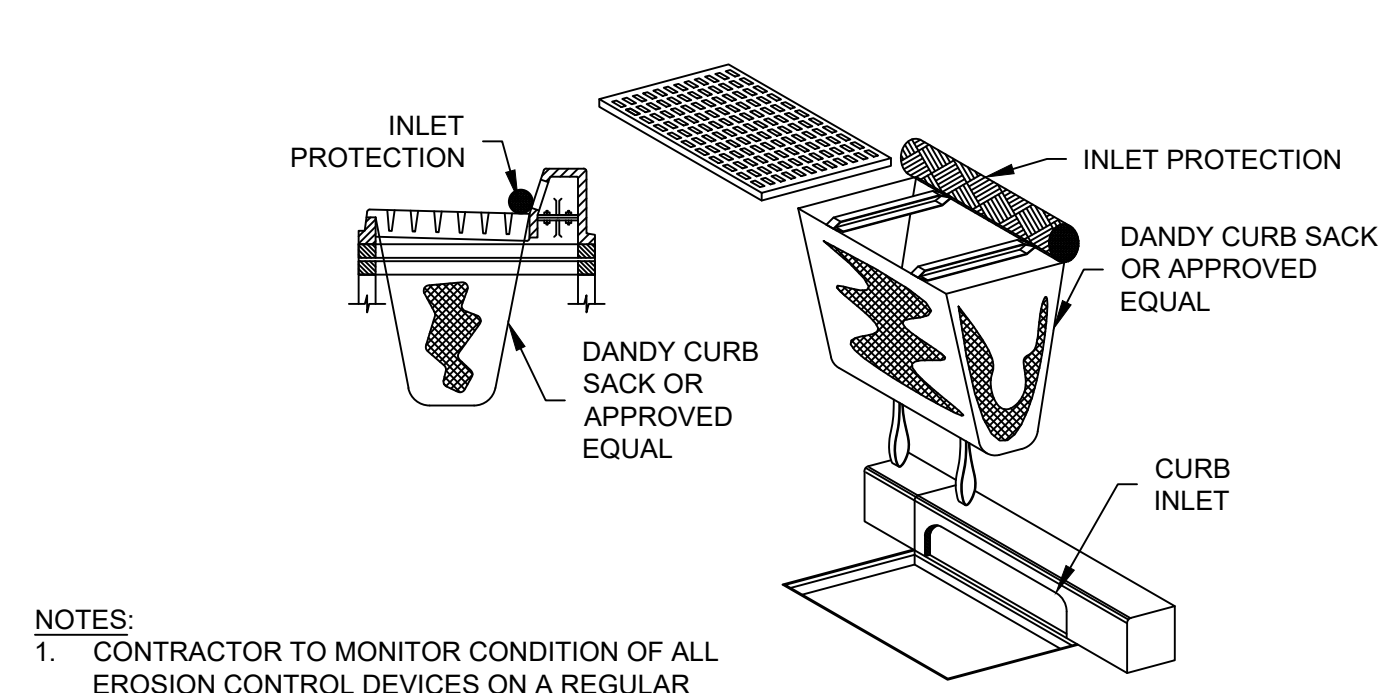


Contract Numbers

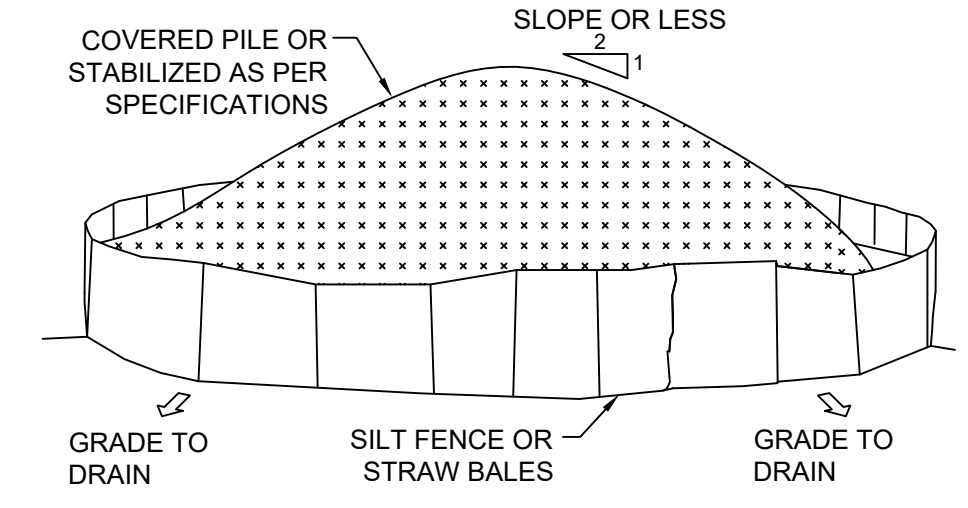
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Design By: LANGAN	
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Approved By: MOC	
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Sheet Title: CIVIL DETAILS 1	
Project Number: 170553202	Scale: AS NOTED



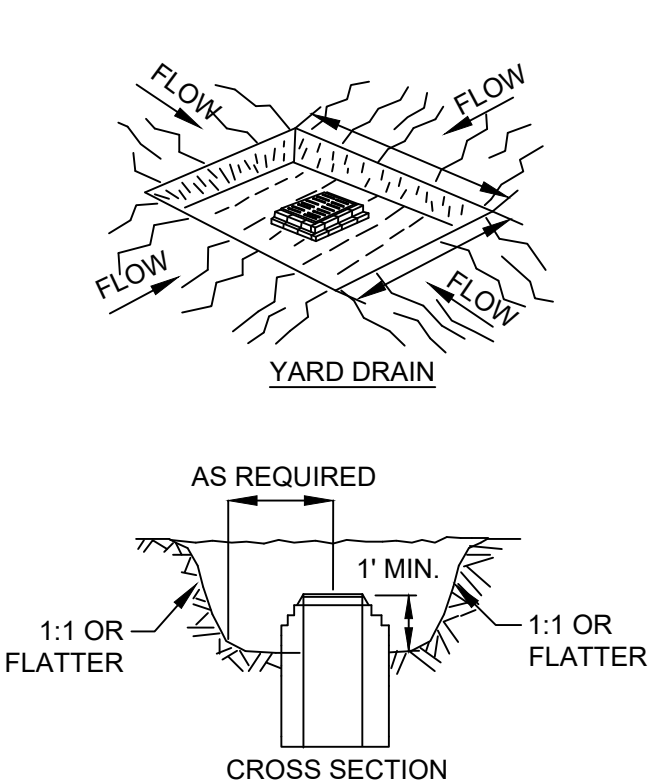
- NOTES:**
- CONTRACTOR TO MONITOR CONDITION OF ALL EROSION CONTROL DEVICES ON A REGULAR BASIS, AT LEAST ONCE PER WEEK & AFTER EVERY RUNOFF-GENERATING STORM EVENT.
 - DEVICES TO BE EMPTIED/ CLEANED AS NEEDED.



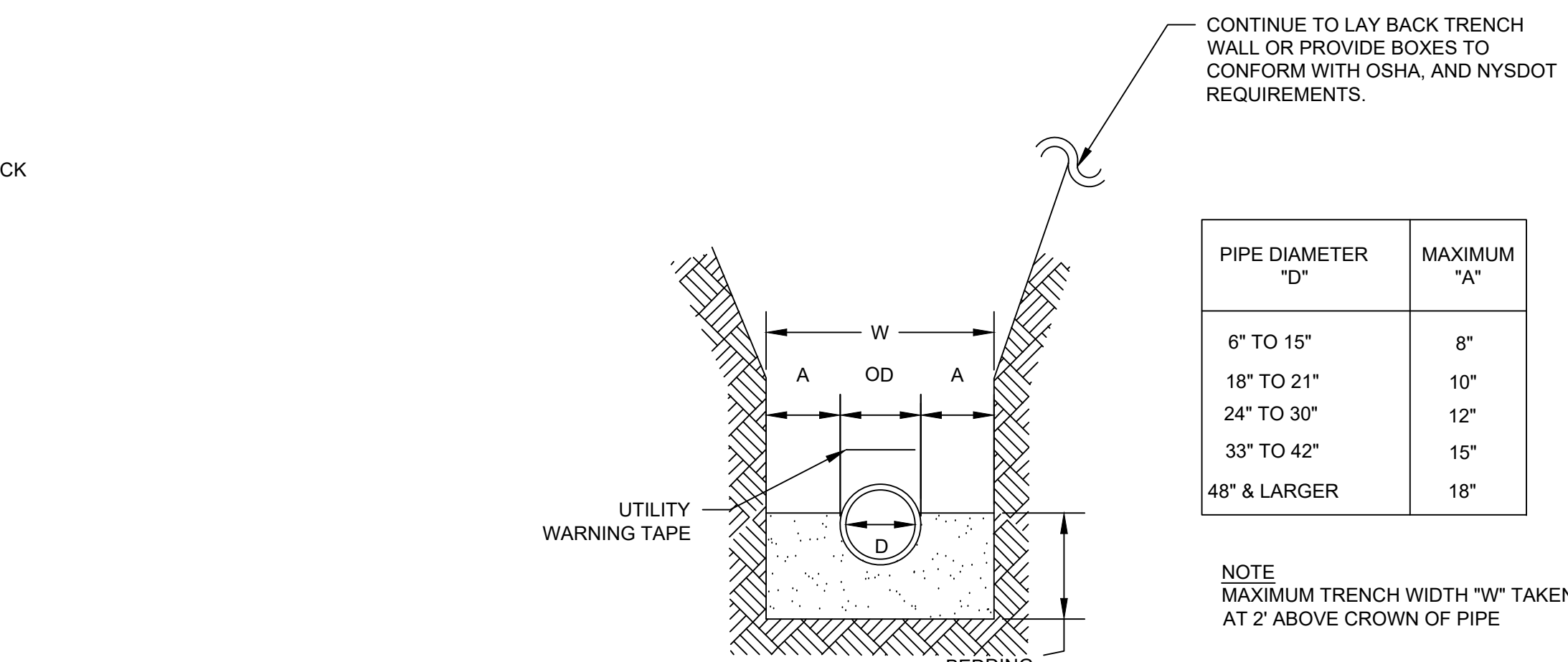
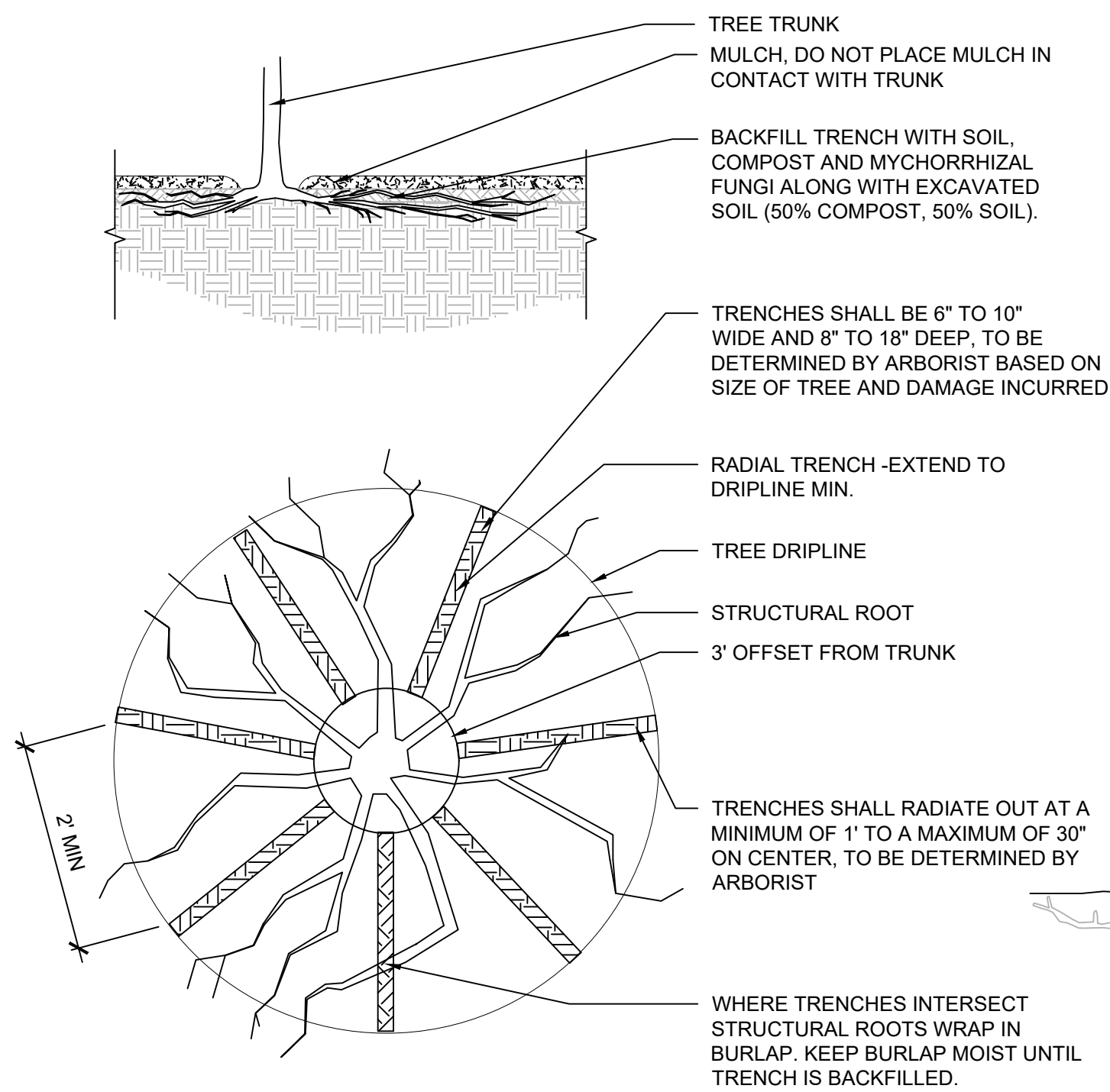
CONSTRUCTION SPECIFICATIONS

- AREA CHOSEN FOR FILL MATERIAL SHALL BE DRY AND STABLE
- MAXIMUM SLOPE OF FILL MATERIAL PILE SHALL BE 2:1
- EACH PILE SHALL BE SURROUNDED BY SILT FENCE.
- UPON COMPLETION, EACH PILE SHALL BE COVERED WITH 6-MIL PLASTIC OR STABILIZED WITH VEGETATION IF STOCKPILE SHALL BE INACTIVE FOR 14 OR MORE DAYS.
- SEGREGATE CERTIFIED CLEAN MATERIALS FROM OTHER MATERIALS WHEN STOCKPILING.

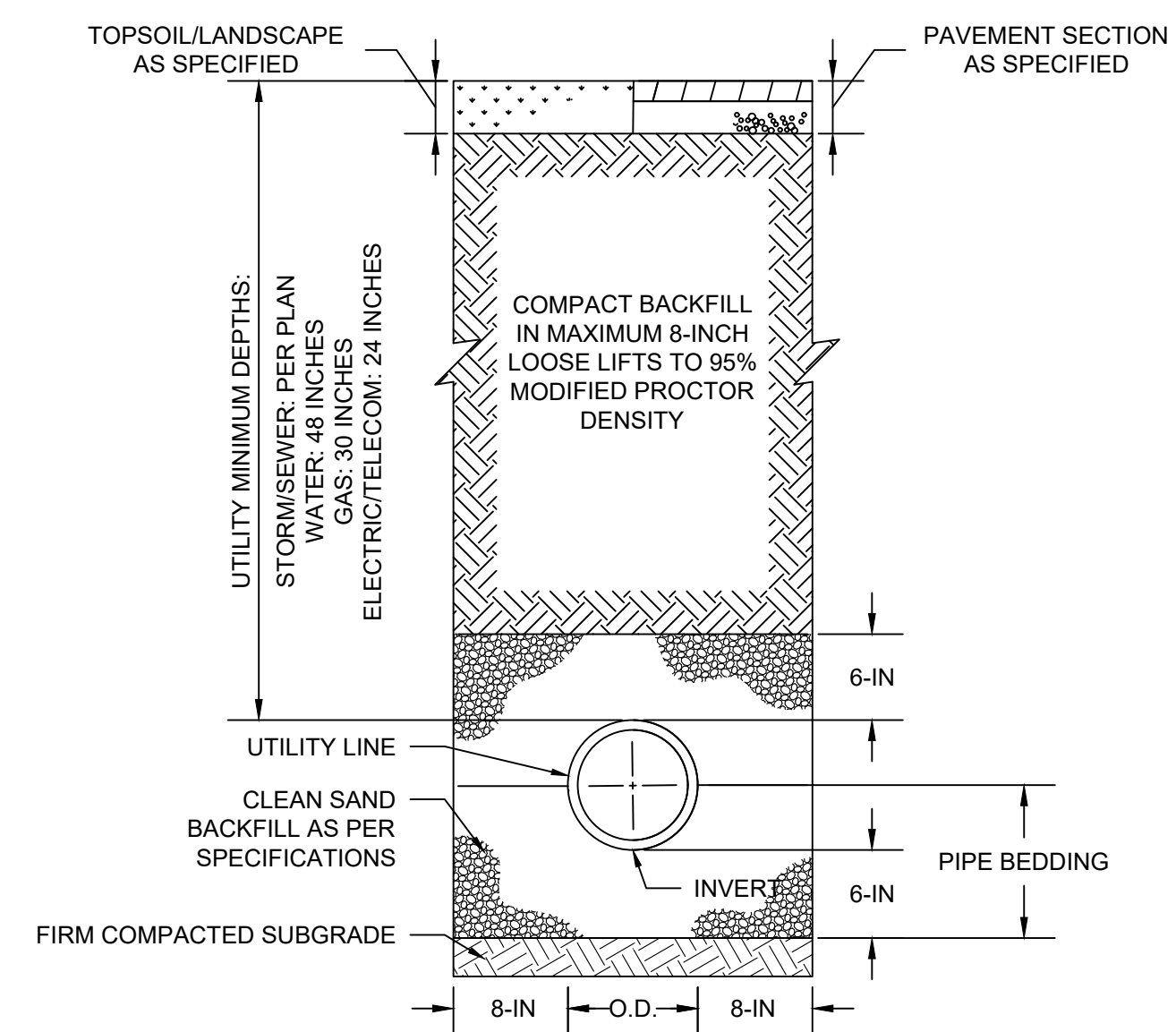
3 EXCAVATION INLET PROTECTION DETAIL
NOT TO SCALE



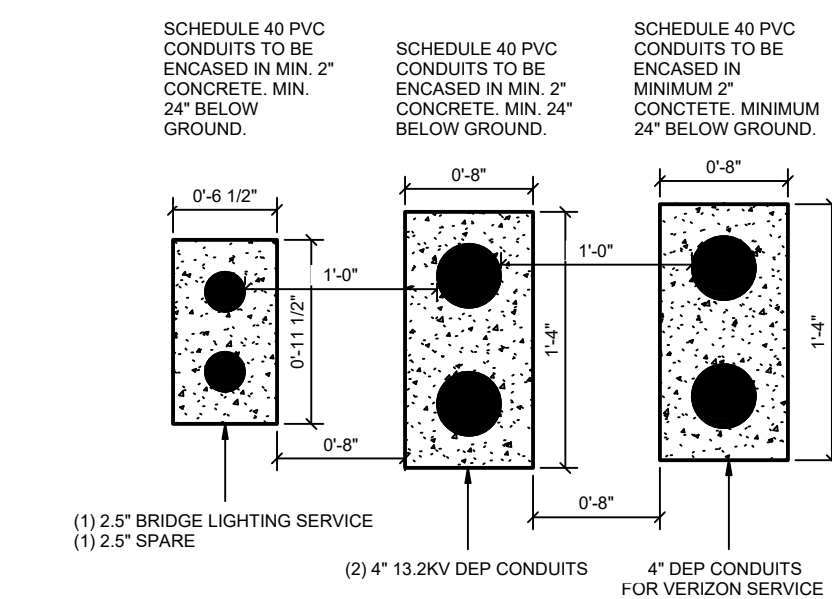
4 TREE PROTECTION DETAIL
NOT TO SCALE



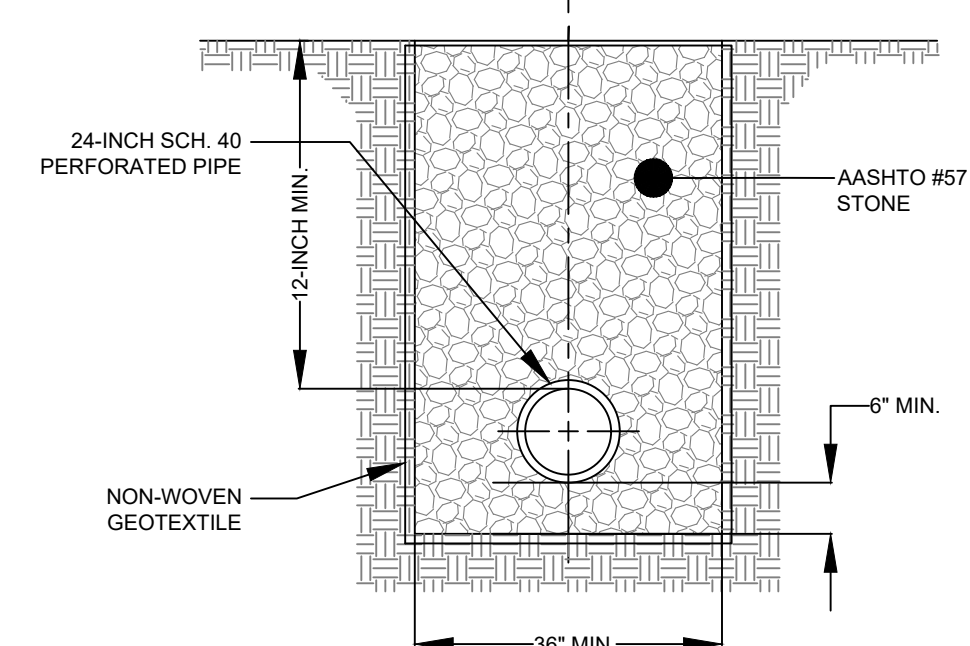
6 TYPICAL UTILITY TRENCH DETAIL
NOT TO SCALE



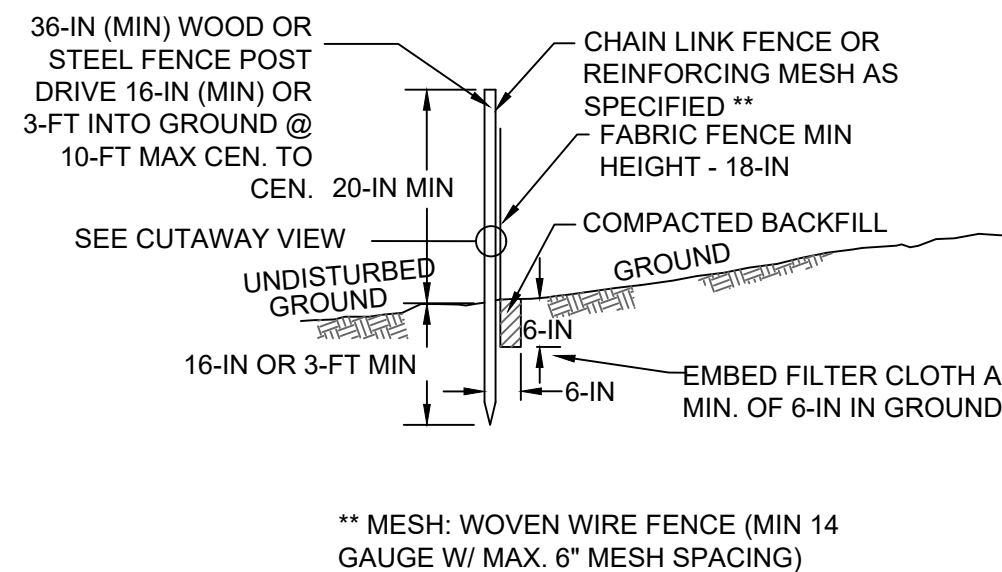
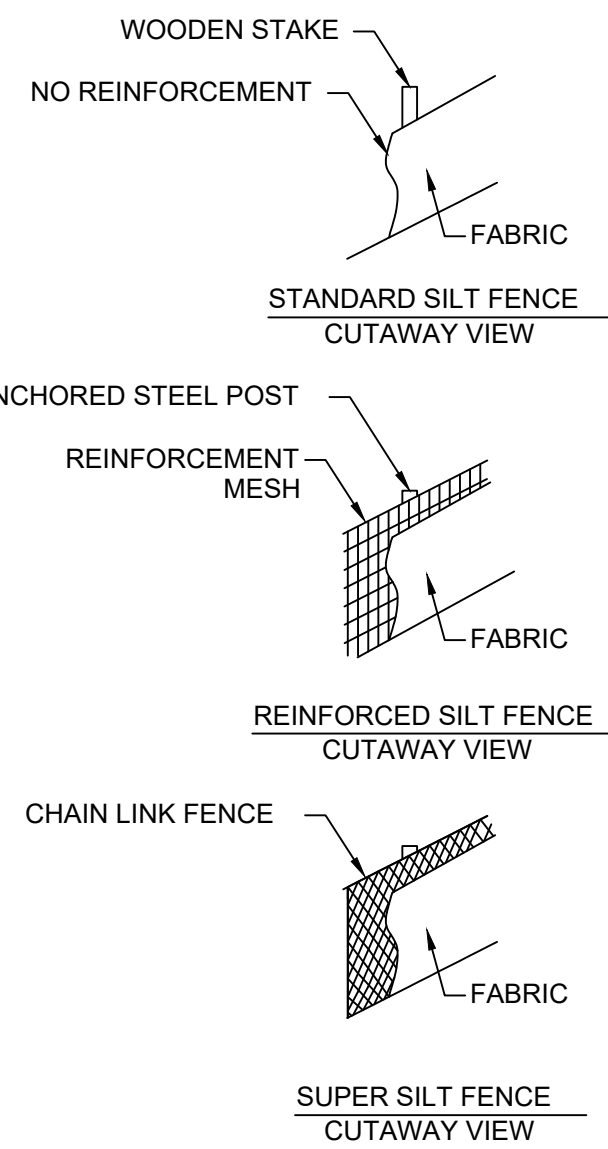
7 DUCT BANK DETAIL
NOT TO SCALE



8 FRENCH DRAIN DETAIL
NOT TO SCALE



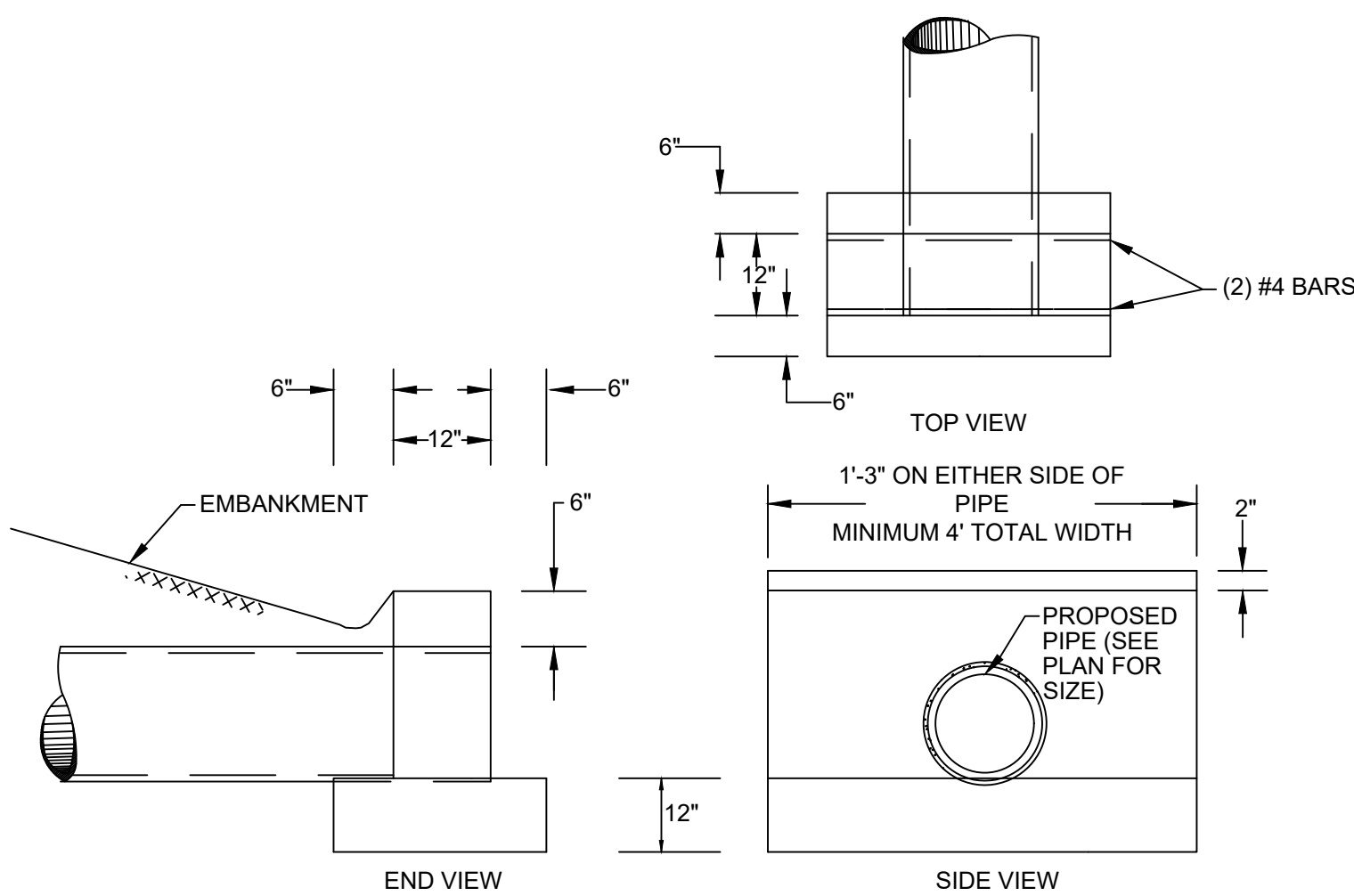
- NOTES:**
- NO PRUNING SHALL BE PERFORMED EXCEPT BY AN APPROVED CERTIFIED ARBORIST.
 - NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.



NOTES:

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE, OR HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, MIN 14 GAUGE, 6 INCHES MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUAL.
- STANDARD SILT FENCE WOODEN STAKES AND REINFORCED SILT FENCE ANCHORED STEEL POSTS TO BE DRIVEN 16 INCHES IN THE GROUND. SUPER SILT FENCE FABRIC TO BE PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3 FEET IN THE GROUND.
- PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE SILT FENCING.

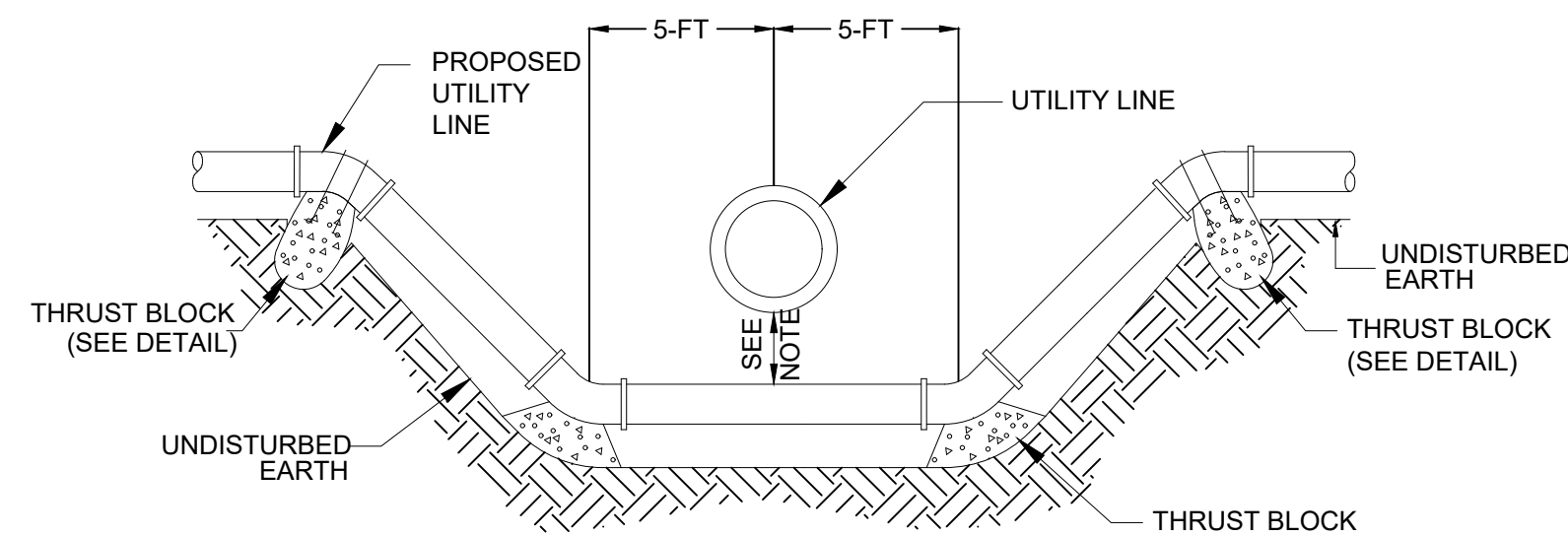
9 SILT FENCE DETAIL
NOT TO SCALE



NOTE

- LINE THE BOTTOM AND THE SIDES OF THE DITCH BELOW THE ENDWALL WITH RIP RAP AS NECESSARY TO PROVIDE EROSION CONTROL. ALL RIP RAP SHALL BE LIMESTONE.
- INSTALL TRASH RACKS ON ALL HEADWALLS.
- CONTRACTOR TO PROVIDE HEADWALL SHOP DRAWING SUBMITTAL.

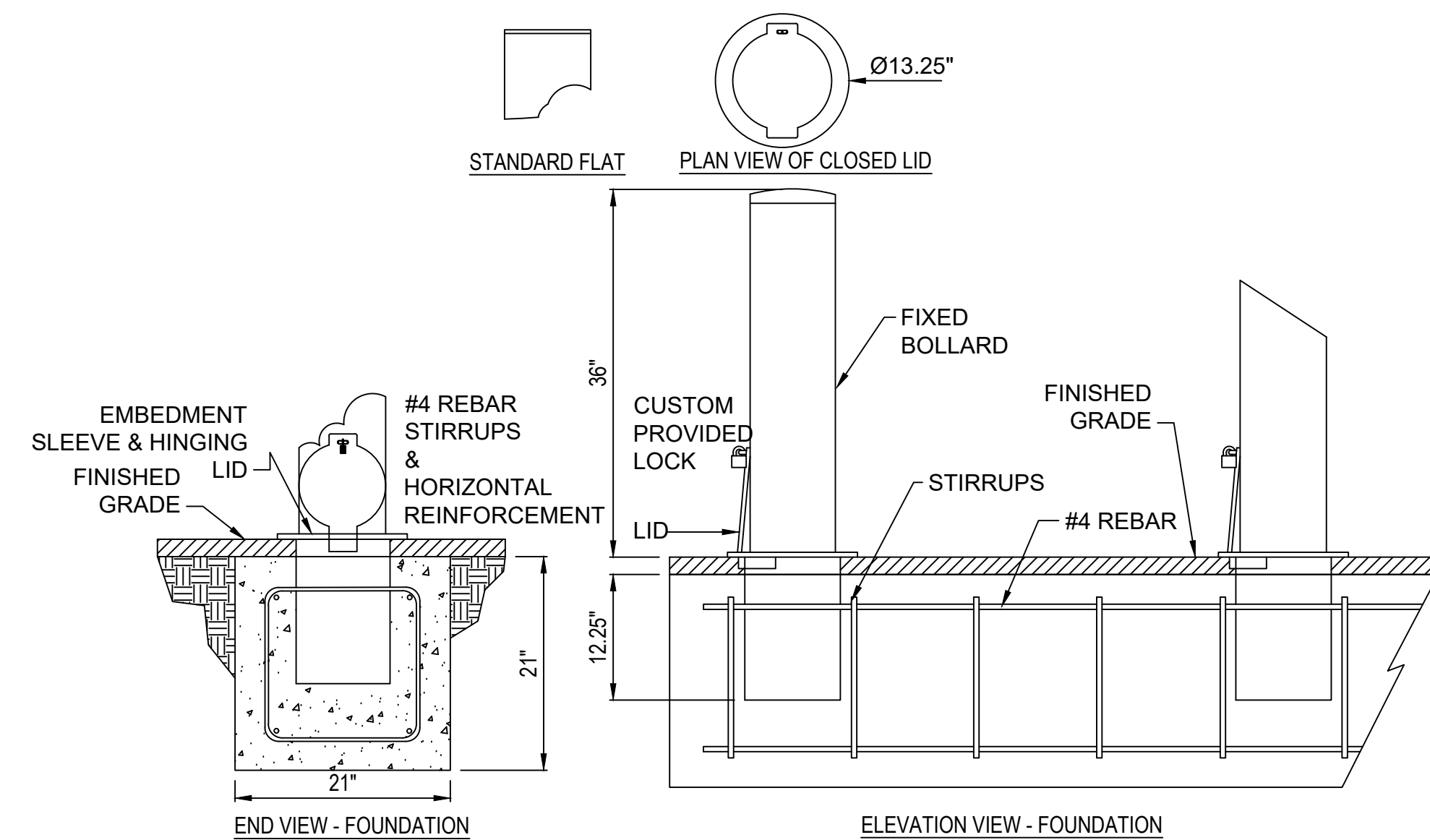
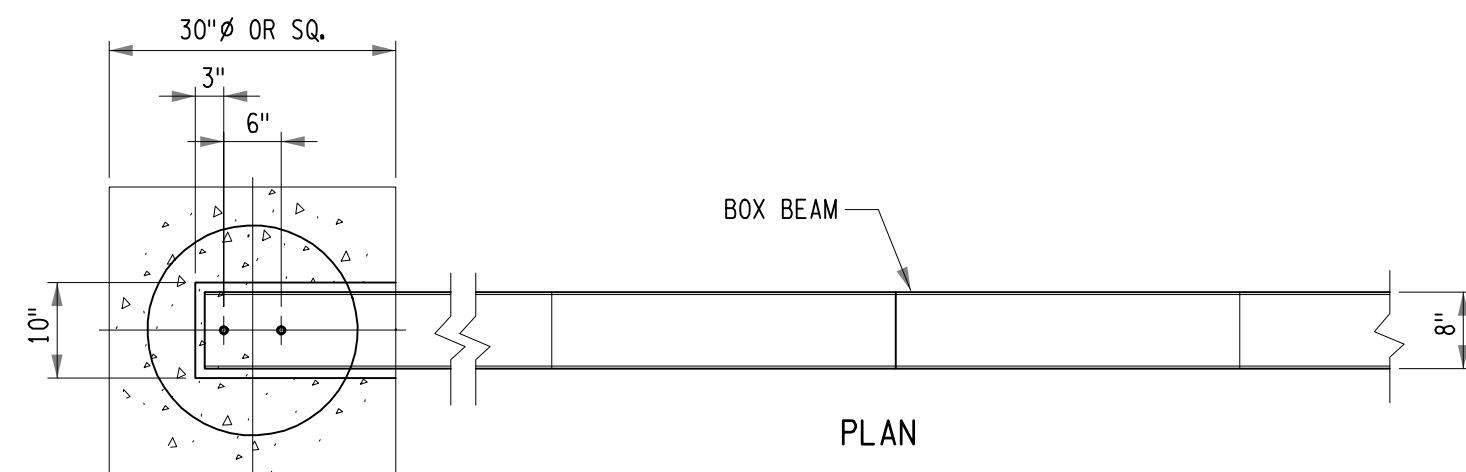
11 HEADWALL/ENDWALL DETAIL
NOT TO SCALE



NOTES:

- IF LESS THAN 12" TO STORM OR 18" TO SANITARY, USE CONC. ENCASEMENT OR AS DIRECTED BY UTILITY CO.
- WHEN WATER MAIN CROSSES ELECTRICAL DUCT, THE 5' OFFSET SHALL BE FROM THE EDGE OF THE CONCRETE ENCASUREMENT.

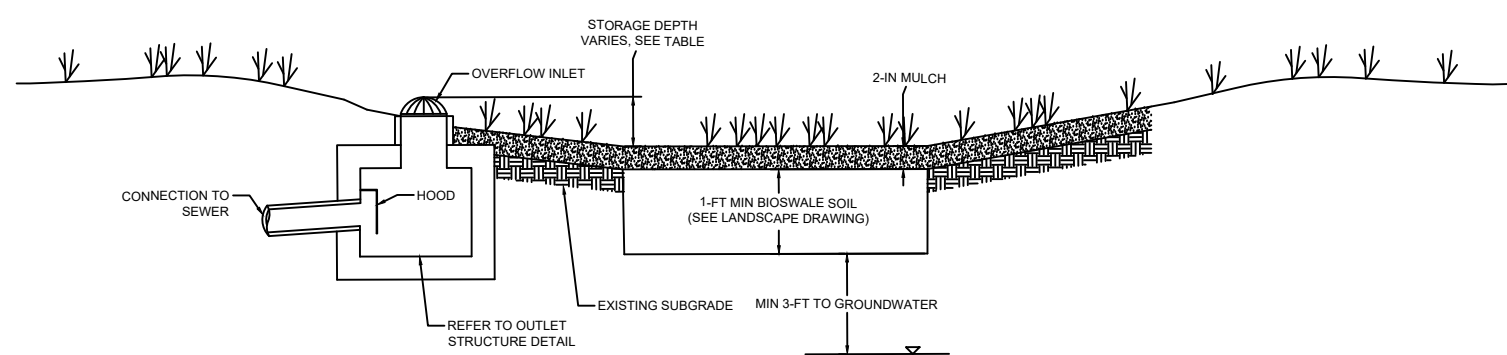
12 UTILITY CROSSING DETAIL
NOT TO SCALE



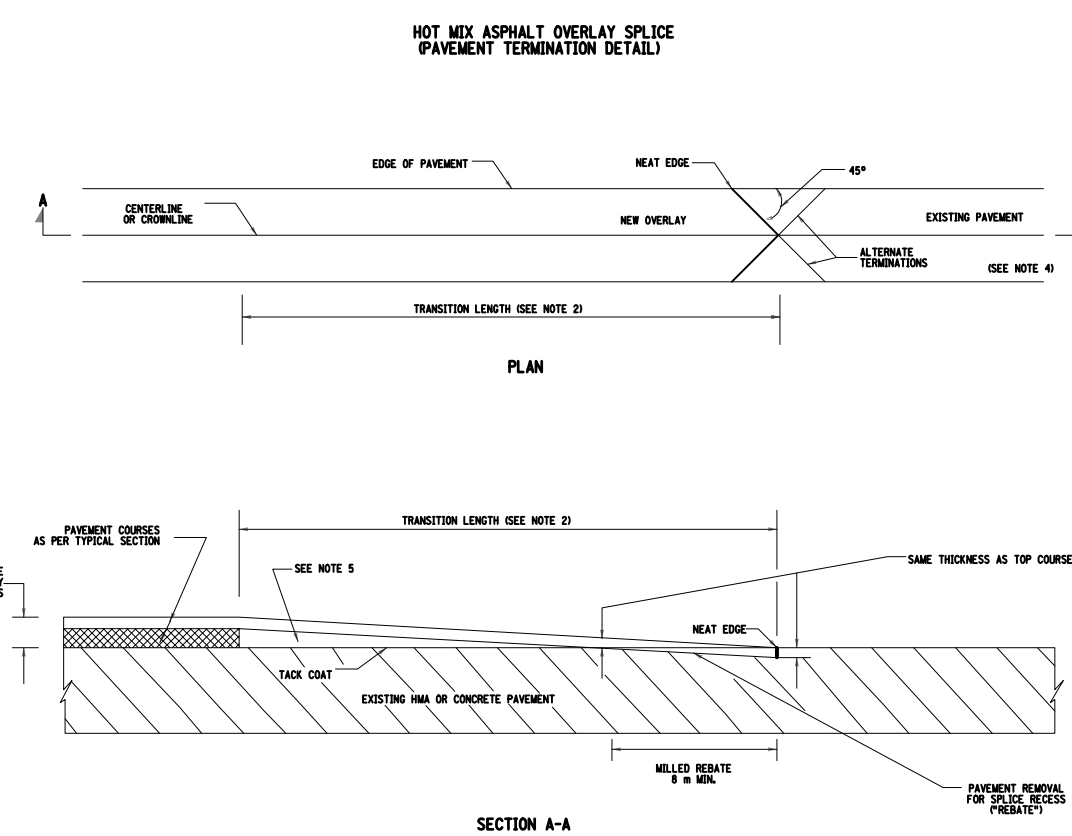
NOTES:

- BOLLARD SHALL BE SCHEDULE 40 OR SCHEDULE 80 STAINLESS STEEL.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- BOLLARD SHALL BE ASTM M30.

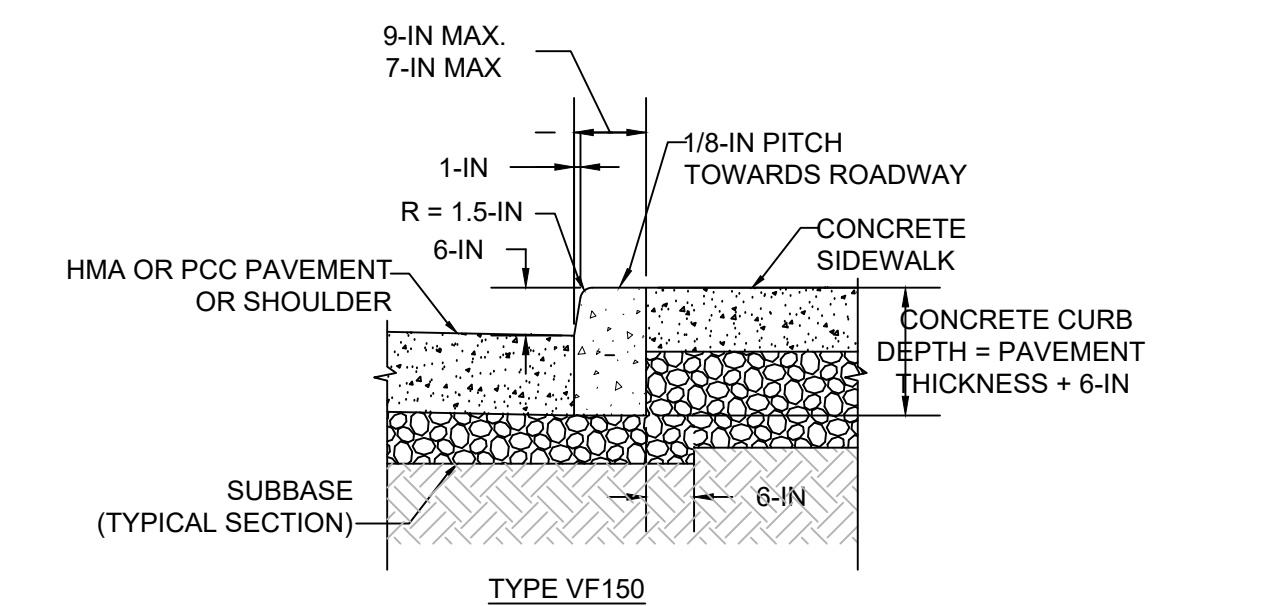
10 HIGH SECURITY EXTERNAL LOCKING BOLLARD DETAIL
NOT TO SCALE



16 BIOSWALE DETAIL
NOT TO SCALE



14 PAVEMENT TERMINATION DETAIL
NOT TO SCALE



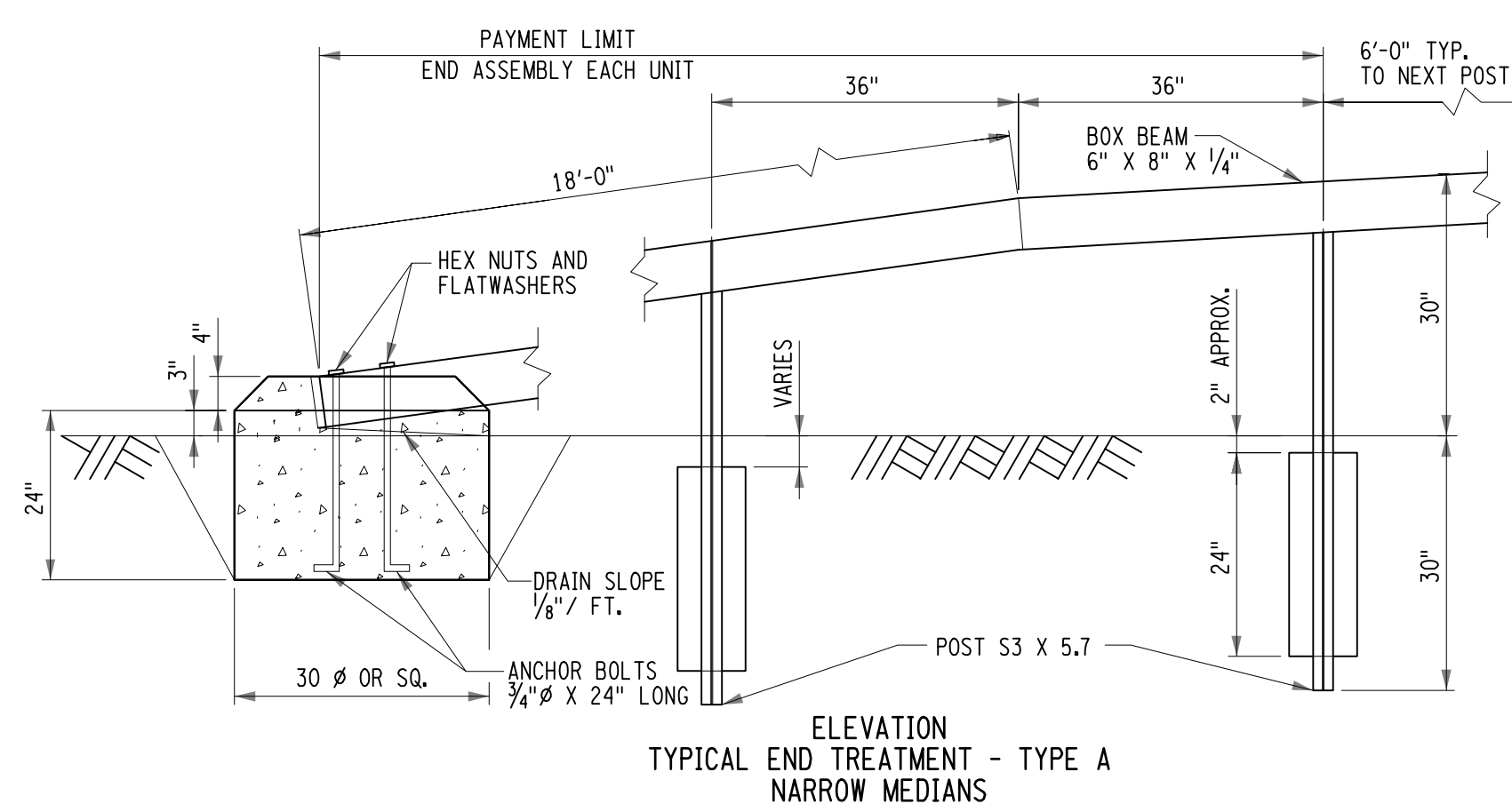
NOTE:

- USE CURB AND GUTTER MEETING THE MATERIAL AND CONSTRUCTION REQUIREMENTS OF SECTION 609 OF THE STANDARD SPECIFICATIONS.

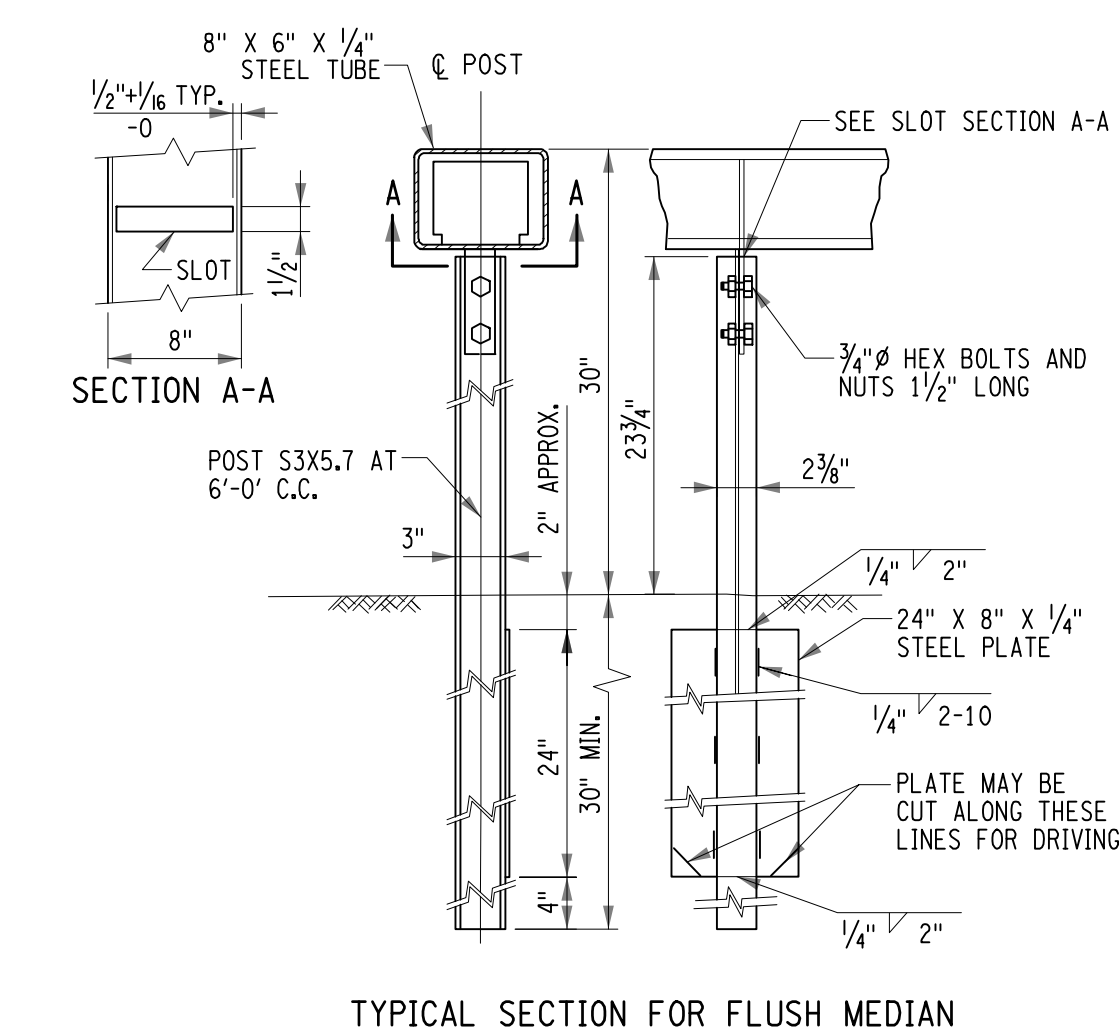
15 NYS DOT CONCRETE CURB DETAIL
NOT TO SCALE

NOTES:

- MINIMUM LENGTH OF RAIL TUBE TO BE 18'-0".
- SEE CONTRACT PLANS FOR LAYOUT DETAILS OF BOX BEAM MEDIAN BARRIERS.
- SEE SPECIFICATIONS FOR BOX BEAM MEDIAN BARRIER FOR MATERIAL REQUIREMENTS AND CONSTRUCTION DETAILS.
- CURVED MEDIAN BARRIER - CURVED MEDIAN BARRIER ERECTED WITH A RADIUS OF 1525'-0" OR LESS SHALL BE SHOP WORKED TO THE REQUIRED CURVATURE. PAYMENT FOR SUCH CURVED LENGTHS WILL BE MADE UNDER THE APPROPRIATE ITEM.
- THE CONTRACTOR SHALL HAVE THE OPTION IF USING EITHER THE SPLICE PLATES WITH THE 3/8"-10 HEX NUTS WELDED TO THEM, OR THE SPLICE PLATES WITH THE BOLT HOLES DRILLED AND TAPPED.



13 MEDIAN BOX BEAM DETAIL
NOT TO SCALE



Governor Kathy Hochul
Commissioner Erik Kulleseid

Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

Hudson Highlands Fjord Trail

Client Representative
ABOUT THE WORK
40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005

About the Work

Structural & Electrical Engineer of Record
ARUP US, INC.
77 WATER ST. NEW YORK, NEW YORK 10005

ARUP

Landscape Architect
SCAPE LANDSCAPE ARCHITECTURE DPC
277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007

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LANGAN
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LANGAN

Structural Scheme Design
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Fast + Epp

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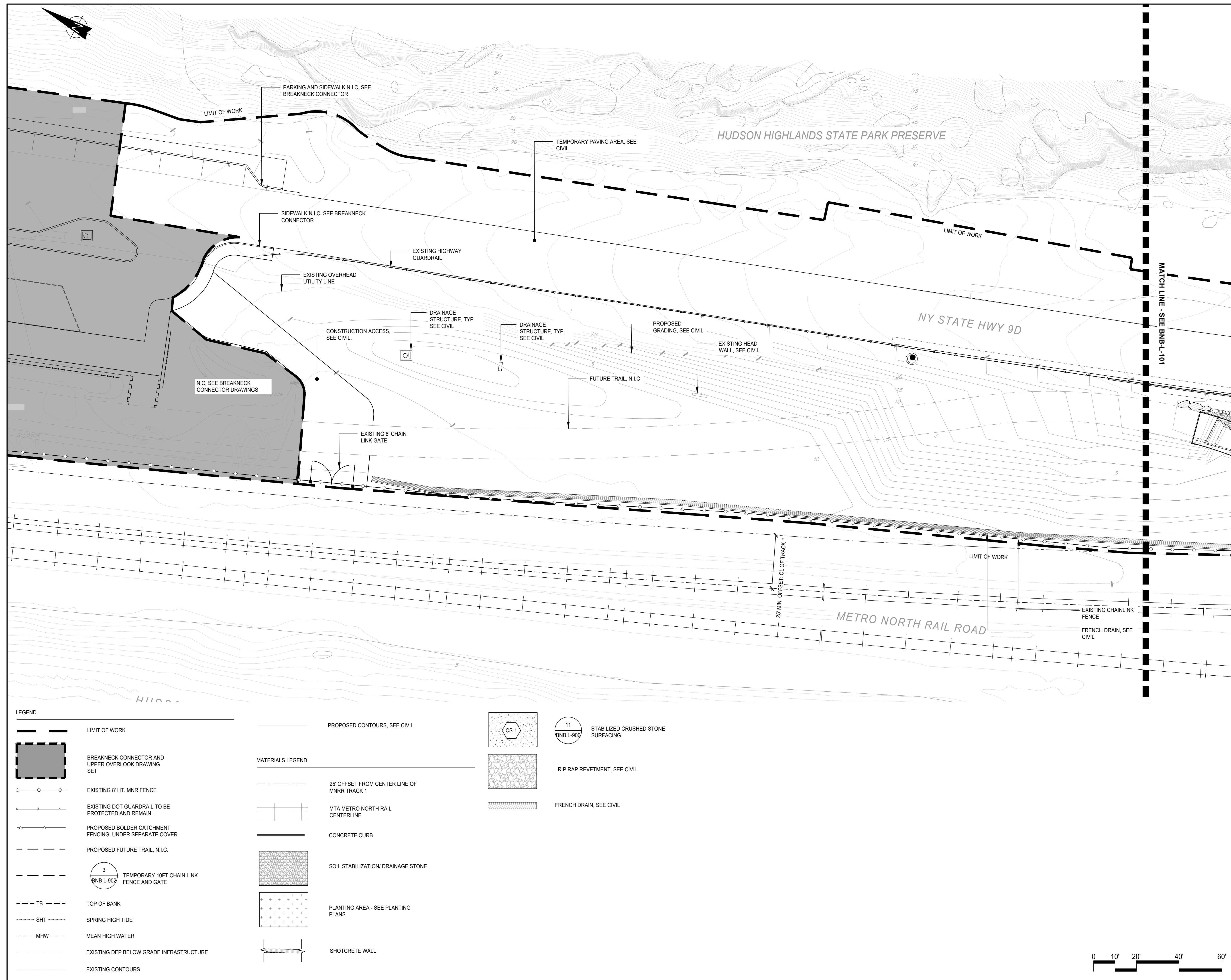
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Drawing Number: **BNB-C-501**

Project Number: **170553202**

Scale: **AS NOTED**

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Commissioner Erik Kulleseid

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Client
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ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

Client Representative
About the Work
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LEGEND

- LIMIT OF WORK
- BREAKNECK CONNECTOR AND UPPER OVERLOOK DRAWING SET
- EXISTING 8' HT. MNR FENCE
- EXISTING DOT GUARDRAIL TO BE PROTECTED AND REMAIN
- PROPOSED BOLDER CATCHMENT FENCING, UNDER SEPARATE COVER
- PROPOSED FUTURE TRAIL, N.I.C.
- TEMPORARY 10FT CHAIN LINK FENCE AND GATE
- TOP OF BANK
- SPRING HIGH TIDE
- MEAN HIGH WATER
- EXISTING DEP BELOW GRADE INFRASTRUCTURE
- EXISTING CONTOURS

MATERIALS LEGEND

- 25' OFFSET FROM CENTER LINE OF MNR TRACK 1
- MTA METRO NORTH RAIL CENTERLINE
- CONCRETE CURB
- SOIL STABILIZATION/ DRAINAGE STONE
- PLANTING AREA - SEE PLANTING PLANS
- SHOTCRETE WALL

CS-1
STABILIZED CRUSHED STONE SURFACING

11
BNB L-900

RIP RAP REVETMENT, SEE CIVIL

FRENCH DRAIN, SEE CIVIL

Drawn By: **SCAPE**

Design By: **SCAPE**

Checked By: **SCAPE**

Approved By: **SCAPE**

Date: **1/26/2023**

Sheet Title: **MATERIALS PLAN**

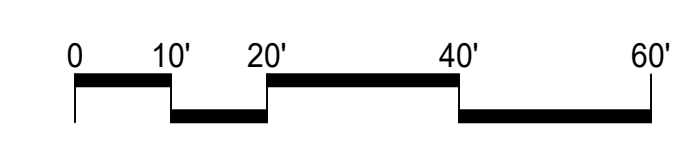
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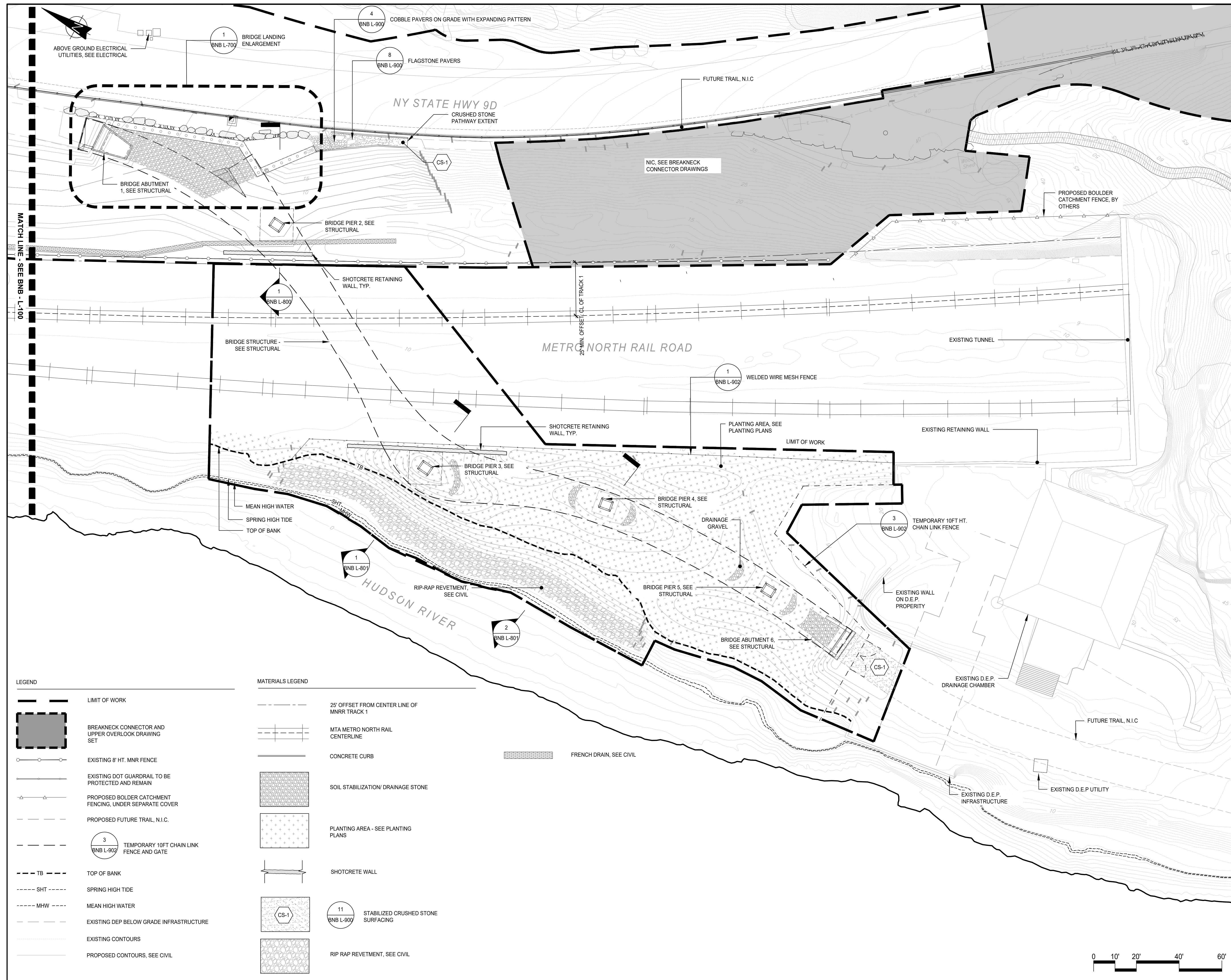
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Drawing Number: **BNB - L-100**





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360 WEST 31ST STREET, 8TH FL., NEW YORK, NY 10001

Structural Scheme Design
FAST + EPP
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
New York

Project Location: Town of Fishkill
Dutchess County
New York

Contract Numbers
GC Contract Number: D-
HVAC Contract Number: D-
Plumbing Contract Number: D-
Electrical Contract Number: D-

REVISIONS		
Rev. No	Description	Date
1	30% CONSTRUCTION DOCUMENTS	10/18/2022
2	60% CONSTRUCTION DOCUMENTS	1/26/2023

Drawn By: **SCAPE**
Design By: **SCAPE**
Checked By: **SCAPE**
Approved By: **SCAPE**
Date: 1/26/2023

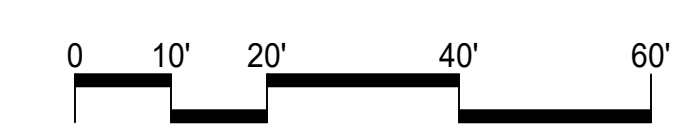
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Drawing Number: **BNB - L-101**

Project Number: 288206
Scale: AS NOTED

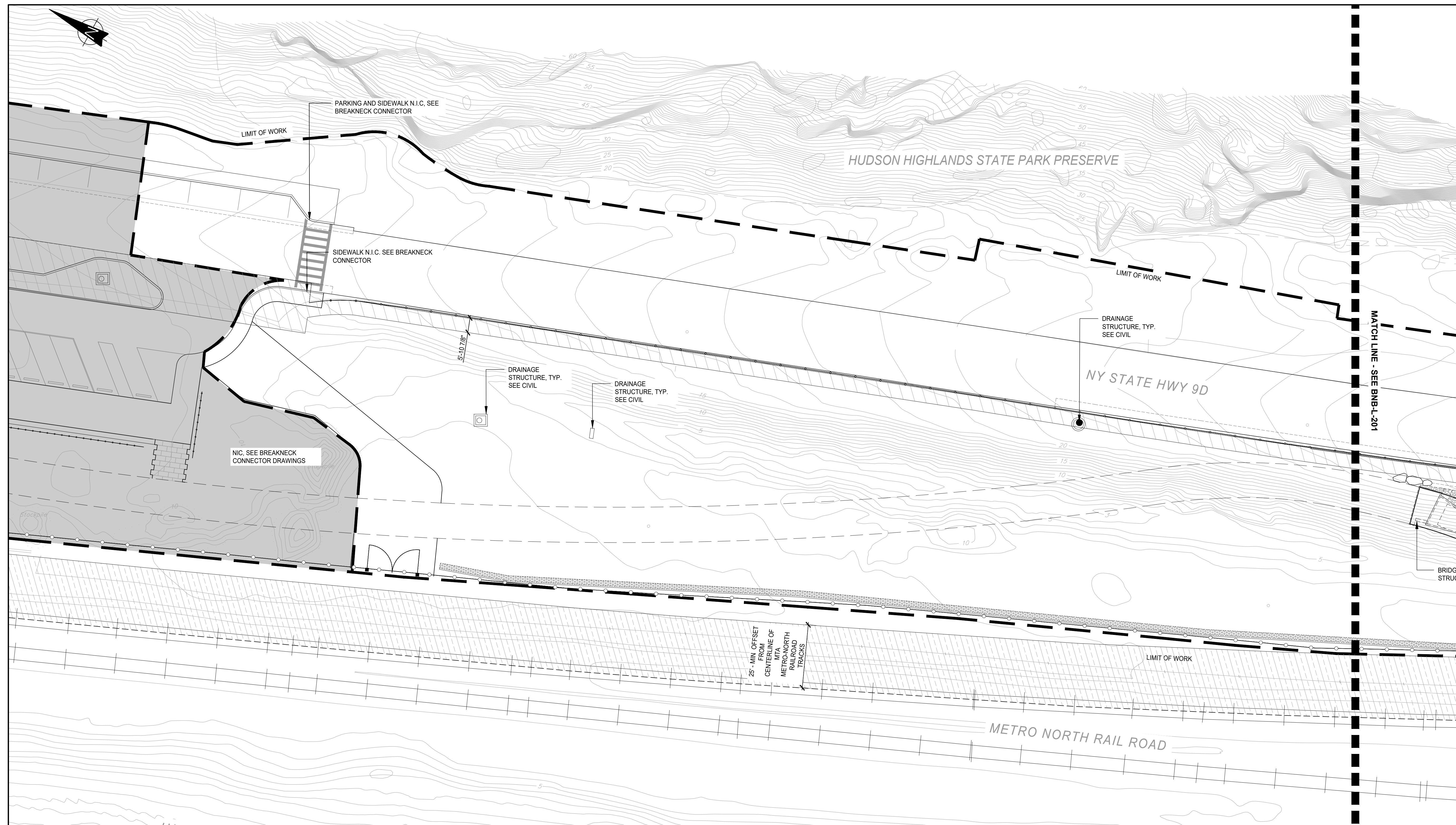
- LEGEND**
- LIMIT OF WORK
 - BREAKNECK CONNECTOR AND UPPER OVERLOOK DRAWING SET
 - EXISTING 8' HT. MNR FENCE
 - EXISTING DOT GUARDRAIL TO BE PROTECTED AND REMAIN
 - PROPOSED BOLDER CATCHMENT FENCING, UNDER SEPARATE COVER
 - PROPOSED FUTURE TRAIL, N.I.C.
 - TEMPORARY 10FT CHAIN LINK FENCE AND GATE
 - TOP OF BANK
 - SPRING HIGH TIDE
 - MEAN HIGH WATER
 - EXISTING DEP BELOW GRADE INFRASTRUCTURE
 - EXISTING CONTOURS
 - PROPOSED CONTOURS, SEE CIVIL

- MATERIALS LEGEND**
- 25' OFFSET FROM CENTER LINE OF MNR TRACK 1
 - MTA METRO NORTH RAIL CENTERLINE
 - CONCRETE CURB
 - SOIL STABILIZATION/ DRAINAGE STONE
 - PLANTING AREA - SEE PLANTING PLANS
 - SHOTCRETE WALL
 - STABILIZED CRUSHED STONE SURFACING
 - RIP RAP REVETMENT, SEE CIVIL

- FRENCH DRAIN, SEE CIVIL



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Commissioner Erik Kulleseid

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Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

Client Representative
ABOUT THE WORK
40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005

Structural & Electrical Engineer of Record
ARUP US, INC.
77 WATER ST. NEW YORK, NEW YORK 10005

Landscape Architect
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277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007

Survey
BADEY & WATSON
3036 ROUTE 9, COLD SPRING, NY 10516

Architect
GRAY ORGANSCHI ARCHITECTURE
35 CROWN STREET, NEW HAVEN, CT 06510

Civil, Traffic, Geotech & Permitting Engineer
LANGAN
360 WEST 31ST STREET, 8TH FL., NEW YORK, NY 10001

Structural Scheme Design
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Design By: **SCAPE**

Checked By: **SCAPE**

Approved By: **SCAPE**

Date: **1/26/2023**

Sheet Title: **LAYOUT PLAN**

Project Number: **288206**

Seal and Signature

NOT FOR CONSTRUCTION

Drawing Number: **BNB - L-200**

Scale: **AS NOTED**

GENERAL LEGEND

- LIMIT OF WORK
- BREAKNECK CONNECTOR AND UPPER OVERLOOK DRAWING SET
- EXISTING 8' HT. MNR FENCE
- EXISTING DOT GUARDRAIL TO BE PROTECTED AND REMAIN
- PROPOSED BOLDER CATCHMENT FENCING, UNDER SEPARATE COVER
- PROPOSED FUTURE TRAIL, N.I.C.
- TEMPORARY 10FT CHAIN LINK FENCE AND GATE
- TOP OF BANK
- SPRING HIGH TIDE
- MEAN HIGH WATER
- EXISTING DEP BELOW GRADE INFRASTRUCTURE
- FRENCH DRAIN, SEE CIVIL

LAYOUT LEGEND

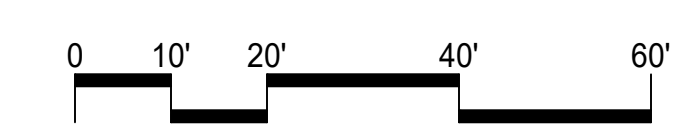
- MTA METRO NORTH RAIL CENTERLINE
- CENTERLINE
- P.T. POINT OF TANGENT
- P.I. POINT OF INTERSECTION
- P.C. POINT OF CURVATURE
- ALIGN
- NORTHING AND EASTING

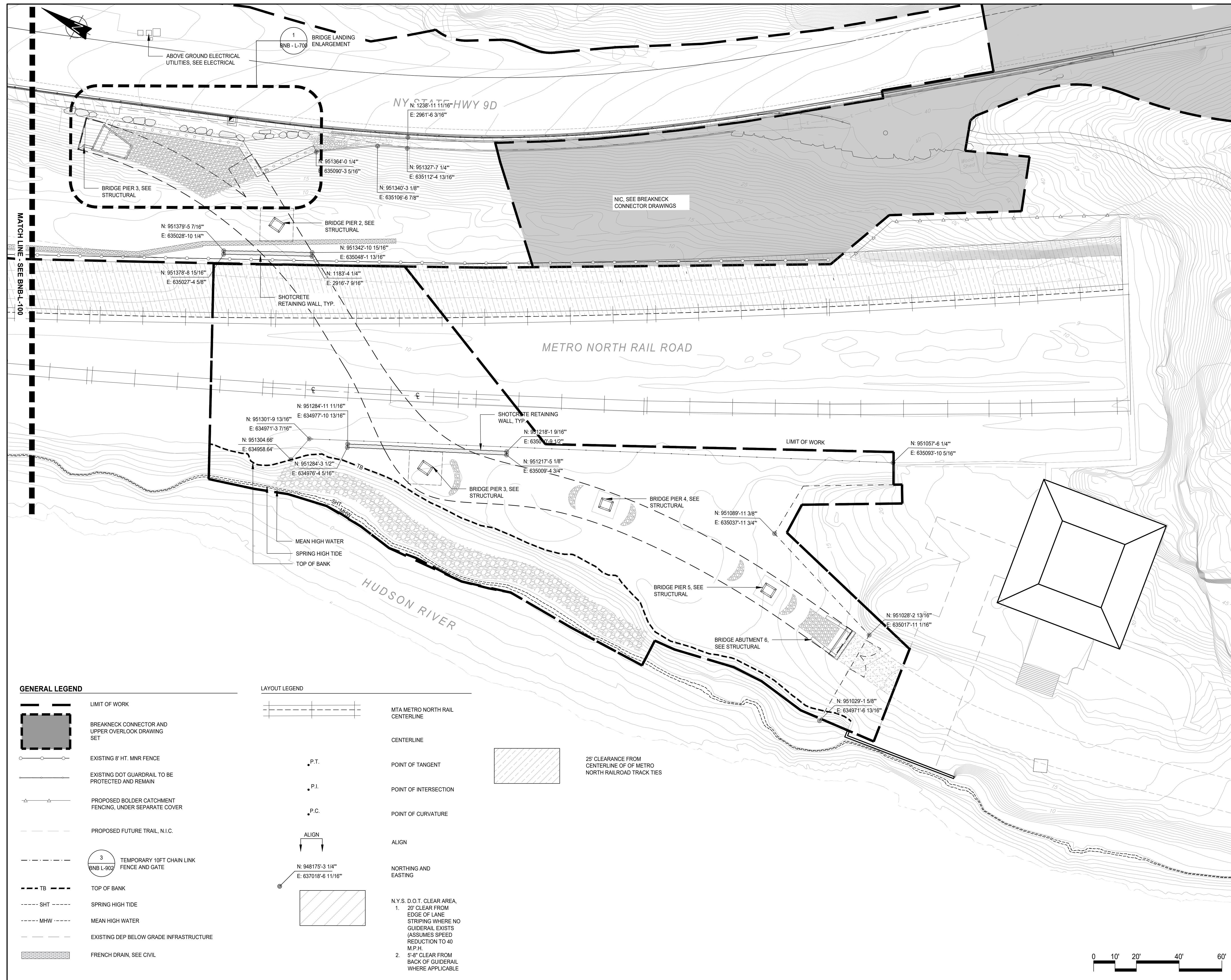
N.Y.S. D.O.T. CLEAR AREA,
1. 20' CLEAR FROM EDGE OF LANE STRIPING WHERE NO GUIDERAIL EXISTS (ASSUMES SPEED REDUCTION TO 40 M.P.H.)
2. 5'-8" CLEAR FROM BACK OF GUIDERAIL WHERE APPLICABLE

25' CLEARANCE FROM CENTERLINE OF METRO NORTH RAILROAD TRACK TIES

25'-MIN OFFSET FROM CENTERLINE OF METRO NORTH RAILROAD TRACKS

N: 948175'-3 1/4"
E: 637018'-6 11/16"





Governor Kathy Hochul
Commissioner Erik Kulleseid

Client: HUDSON HIGHLANDS FJORD TRAIL, ONE CIVIC CENTER PLAZA, SUITE 200, Poughkeepsie, NY 12601

Client Representative: ABOUT THE WORK, 40 EXCHANGE PLACE, SUITE 1708, NEW YORK, NY 10005

Structural & Electrical Engineer of Record: ARUP US, INC., 77 WATER ST., NEW YORK, NEW YORK 10005

Landscape Architect: SCAPE LANDSCAPE ARCHITECTURE DPC, 277 BROADWAY 9TH FLOOR, NEW YORK, NY 10007

Survey: BADEY & WATSON, 3036 ROUTE 9, COLD SPRING, NY 10516

Architect: GRAY ORGANSCHI ARCHITECTURE, 35 CROWN STREET, NEW HAVEN, CT 06510

Civil, Traffic, Geotech & Permitting Engineer: LANGAN, 360 WEST 31ST STREET, 8TH FL., NEW YORK, NY 10001

Structural Scheme Design: FAST + EPP, 411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE
Name of Region: Dutchess County, New York
Project Location: Town of Fishkill, Dutchess County, New York

Contract Numbers
GC Contract Number: D-
HVAC Contract Number: D-
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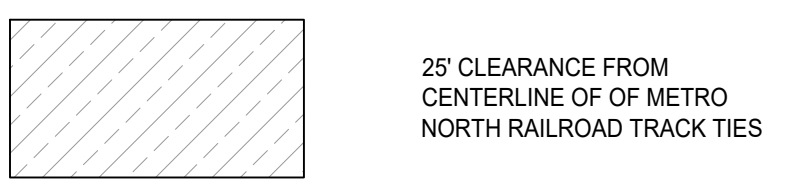
Drawn By: SCAPE
Design By: SCAPE
Checked By: SCAPE
Approved By: SCAPE
Date: 1/26/2023

Sheet Title: LAYOUT PLAN
Drawing Number: BNB - L-201

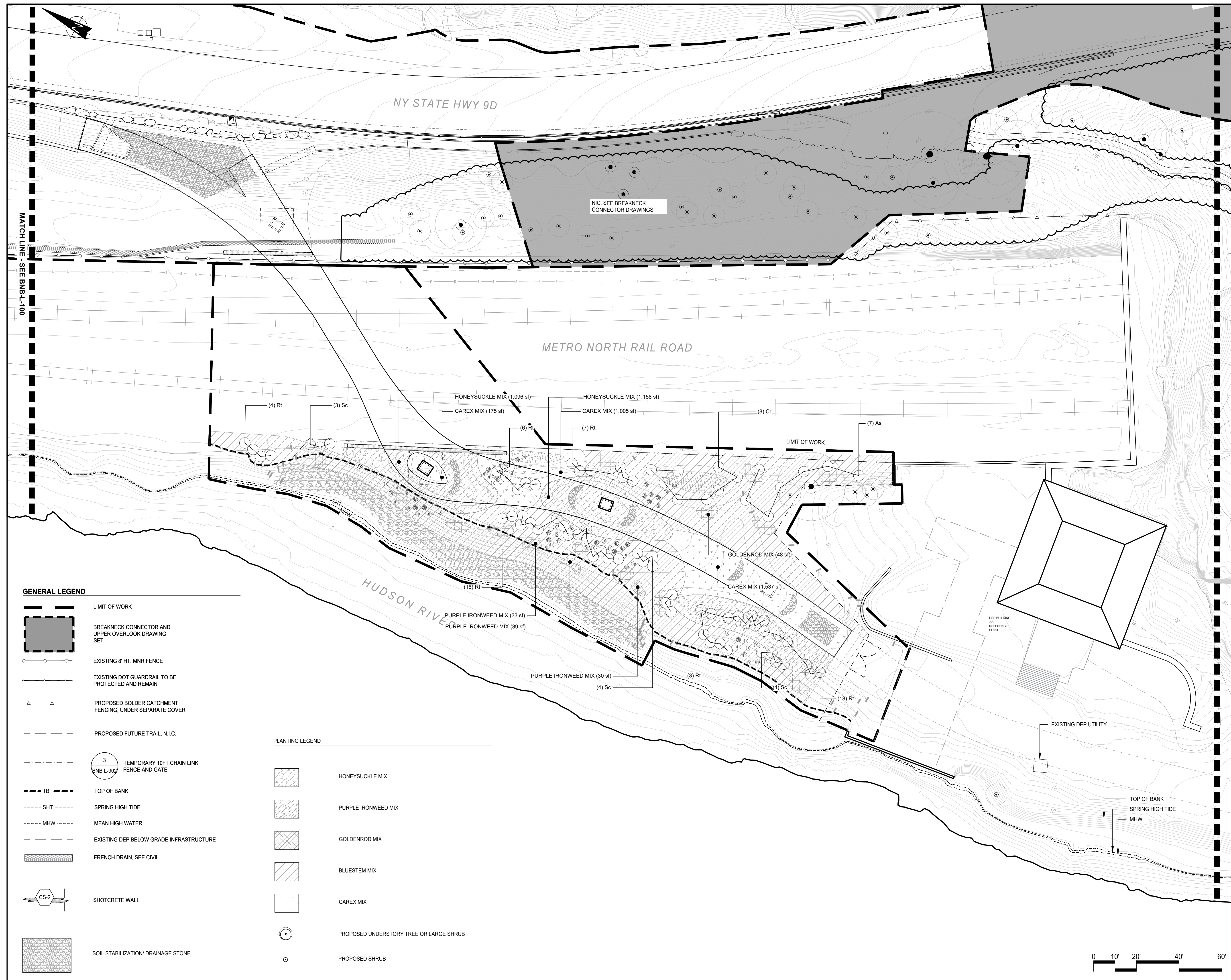
Project Number: 288206
Scale: AS NOTED

- GENERAL LEGEND**
- LIMIT OF WORK
 - BREAKNECK CONNECTOR AND UPPER OVERLOOK DRAWING SET
 - EXISTING 8' HT. MNR FENCE
 - EXISTING DOT GUARDRAIL TO BE PROTECTED AND REMAIN
 - PROPOSED BOLDER CATCHMENT FENCING, UNDER SEPARATE COVER
 - PROPOSED FUTURE TRAIL, N.I.C.
 - TEMPORARY 10FT CHAIN LINK FENCE AND GATE
 - TB --- TOP OF BANK
 - SHT --- SPRING HIGH TIDE
 - MHW --- MEAN HIGH WATER
 - EXISTING DEP BELOW GRADE INFRASTRUCTURE
 - FRENCH DRAIN, SEE CIVIL

- LAYOUT LEGEND**
- MTA METRO NORTH RAIL CENTERLINE
 - CENTERLINE
 - P.T. POINT OF TANGENT
 - P.I. POINT OF INTERSECTION
 - P.C. POINT OF CURVATURE
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2. 5'-8" CLEAR FROM BACK OF GUIDERAIL WHERE APPLICABLE



NOT FOR CONSTRUCTION



MATCH LINE - SEE BNB-L-100

- GENERAL LEGEND**
- LIMIT OF WORK
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 - EXISTING 8' HT. MNR FENCE
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 - PROPOSED FUTURE TRAIL, N.I.C.
 - TEMPORARY 10FT CHAIN LINK FENCE AND GATE (BNB L-902)
 - TOP OF BANK
 - SPRING HIGH TIDE
 - MEAN HIGH WATER
 - EXISTING DEP BELOW GRADE INFRASTRUCTURE
 - FRENCH DRAIN, SEE CIVIL
 - SHOTCRETE WALL (CS-2)
 - SOIL STABILIZATION/ DRAINAGE STONE

- PLANTING LEGEND**
- HONEYSUCKLE MIX
 - PURPLE IRONWEED MIX
 - GOLDENROD MIX
 - BLUESTEM MIX
 - CAREX MIX
 - PROPOSED UNDERSTORY TREE OR LARGE SHRUB
 - PROPOSED SHRUB

Governor Kathy Hochul
Commissioner Erik Kulleseid

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Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601

Client Representative
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Civil, Traffic, Geotech & Permitting Engineer
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360 WEST 31ST STREET, 8TH FL., NEW YORK, NY 10001

Structural Scheme Design
FAST + EPP
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
New York

Project Location: Town of Fishkill
Dutchess County
New York

Contract Numbers
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Plumbing Contract Number: D-
Electrical Contract Number: D-

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Drawn By: **SCAPE**

Design By: **SCAPE**

Checked By: **SCAPE**

Approved By: **SCAPE**

Date: 1/26/2023

Sheet Title: **PLANTING PLAN**

Project Number: **288206**

Scale: **AS NOTED**

Seal and Signature

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Governor Kathy Hochul Commissioner Erik Kulleseid

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Client
HUDSON HIGHLANDS FJORD TRAIL
ONE CIVIC CENTER PLAZA, SUITE 200
POUGHKEEPSIE, NY 12601




Client Representative
ABOUT THE WORK
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Structural & Electrical Engineer of Record
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Architect
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Civil, Traffic, Geotech & Permitting Engineer
LANGAN
360 WEST 31ST STREET, 8TH FL, NEW YORK, NY 10001



Structural Scheme Design
FAST + EPP
411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003



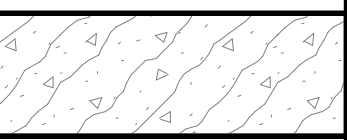
Project Title: THE BREAKNECK BRIDGE
Name of Region: Dutchess County New York
Project Location: Town of Fishkill Dutchess County New York



Contract Numbers
GC Contract Number: D-
HVAC Contract Number: D-
Plumbing Contract Number: D-
Electrical Contract Number: D-

PLANT SCHEDULE

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
	As	7	AMELANCHIER SPICATA	DWARF SERVICEBERRY	#3 CONT.	AS SHOWN	FULL SPECIMEN. 2" CAL.
	Cr	8	CORNUS RACEMOSA	GRAY DOGWOOD	#3 CONT.	AS SHOWN	FULL SPECIMEN
	DI	60	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE	#3 CONT.	AS SHOWN	FULL SPECIMEN.
	Rt	54	RHUS TYPHINA	STAGHORN SUMAC	#3 CONT.	AS SHOWN	FULL SPECIMEN
	Sc	11	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	#3 CONT.	AS SHOWN	FULL SPECIMEN

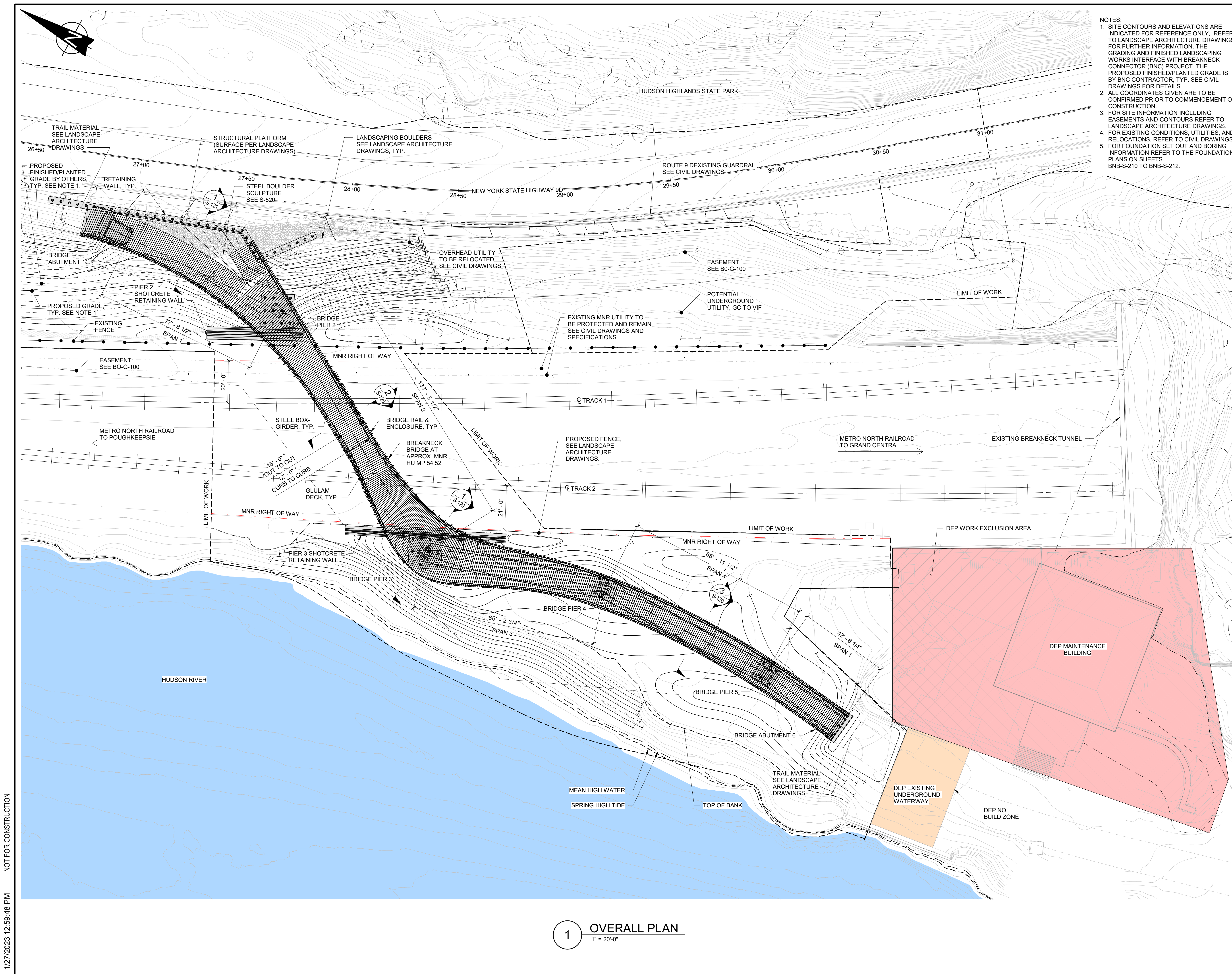
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
		2,254 SF	HONEYSUCKLE MIX				
	ca	564 SF	CAREX APPALACHIA	APPALACHIAN SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	cd	564 SF	CAREX PEDUNCULATA	LONG-STALKED SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	cp	564 SF	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	cr2	564 SF	CAREX ROSEA	ROSY SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	DI1	586	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE	#3 CONT.	24" o.c.	FULL SPECIMEN

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
		682 SF	GOLDENROD MIX				
	ss	89	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	PLUG	50% @ 24" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
	sf	32	SOLIDAGO FLEXICAULIS	ZIGZAG GOLDENROD	PLUG	10% @ 18" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
	sj	48	SOLIDAGO JUNCEA	EARLY GOLDENROD	PLUG	15% @ 18" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
	sn	32	SOLIDAGO NEMORALIS	GRAY GOLDENROD	PLUG	10% @ 18" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
	ss2	48	SOLIDAGO SPECIOSA	SHOWY GOLDENROD	PLUG	15% @ 18" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
		541 SF	PURPLE IRONWEED MIX				
	ep	75	EUTROCHIUM PURPUREUM	JOE PYE WEED	PLUG	30% @ 18" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
	ss	29	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	PLUG	20% @ 24" o.c.	FULL PLANTS EVENLY DISTRIBUTED.
	vn	125	VERNONIA NOVEBORACENSIS	COMMON IRONWEED	PLUG	50% @ 18" o.c.	FULL PLANTS EVENLY DISTRIBUTED.

SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
		2,717 SF	CAREX MIX				
	ca	679 SF	CAREX APPALACHIA	APPALACHIAN SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	cd	679 SF	CAREX PEDUNCULATA	LONG-STALKED SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	cp	679 SF	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	cr2	679 SF	CAREX ROSEA	ROSY SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
		8,678 SF	BLUESTEM MIX				
	cp	868 SF	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	mf	1,736 SF	MONARDA FISTULOSA	BERGAMOT	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.
	ss1	6,075 SF	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	SEED		LB OF P.L.S. SEED AT 20 LBS / ACRE PER SPECIFICATIONS.

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Drawn By: SCAPE	Seal and Signature NOT FOR CONSTRUCTION
Design By: SCAPE	
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Date: 1/26/2023	
Sheet Title: PLANTING SCHEDULE	Drawing Number: BNB - L-402
Project Number: 288206	Scale: AS NOTED

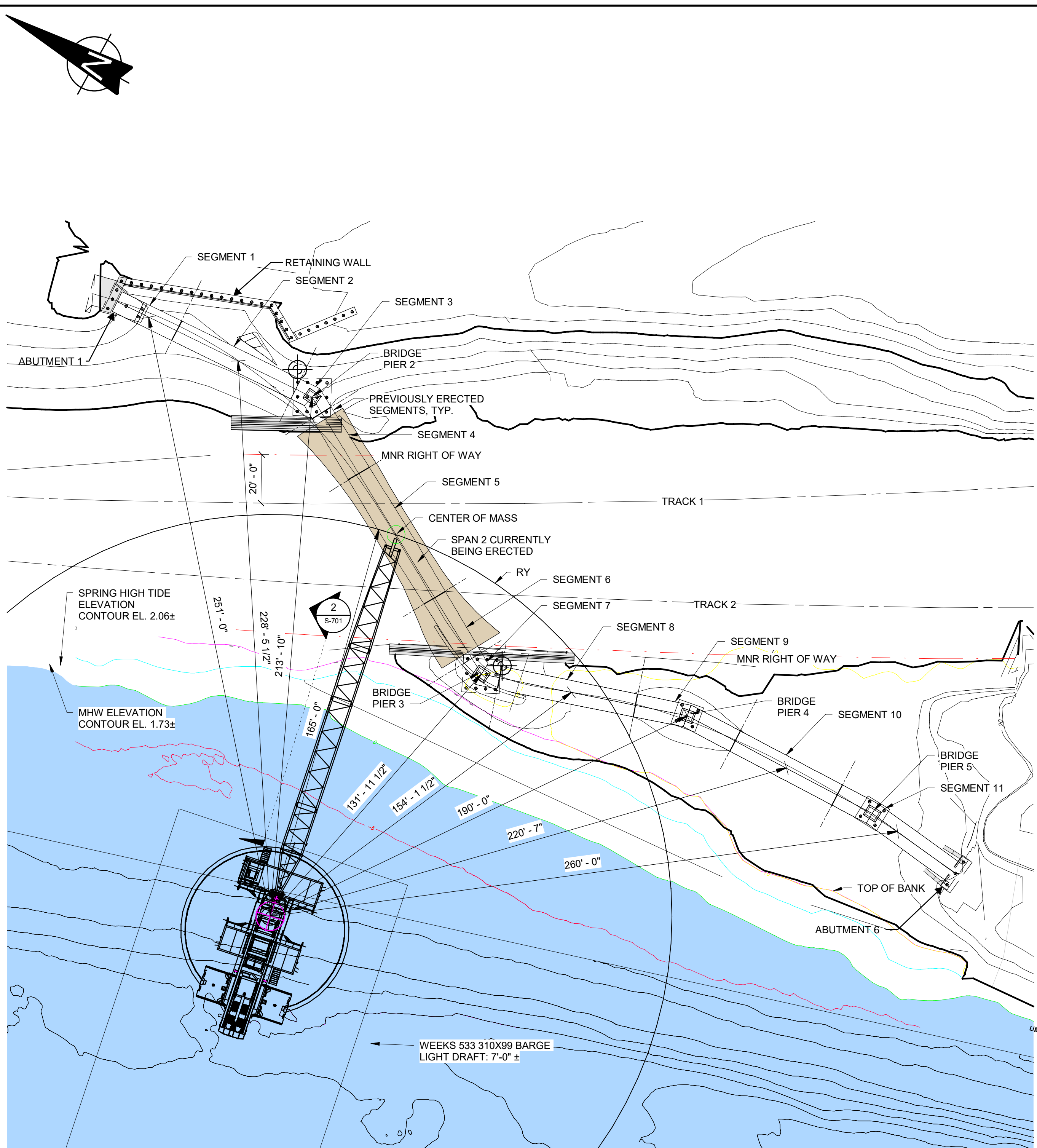


- NOTES:**
1. SITE CONTOURS AND ELEVATIONS ARE INDICATED FOR REFERENCE ONLY. REFER TO LANDSCAPE ARCHITECTURE DRAWINGS FOR FURTHER INFORMATION. THE GRADING AND FINISHED LANDSCAPING WORKS INTERFACE WITH BREAKNECK CONNECTOR (BNC) PROJECT. THE PROPOSED FINISHED/PLANTED GRADE IS BY BNC CONTRACTOR, TYP. SEE CIVIL DRAWINGS FOR DETAILS.
 2. ALL COORDINATES GIVEN ARE TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. FOR SITE INFORMATION INCLUDING EASEMENTS AND CONTOURS REFER TO LANDSCAPE ARCHITECTURE DRAWINGS.
 4. FOR EXISTING CONDITIONS, UTILITIES, AND RELOCATIONS, REFER TO CIVIL DRAWINGS.
 5. FOR FOUNDATION SET OUT AND BORING INFORMATION REFER TO THE FOUNDATION PLANS ON SHEETS BNB-S-210 TO BNB-S-212.

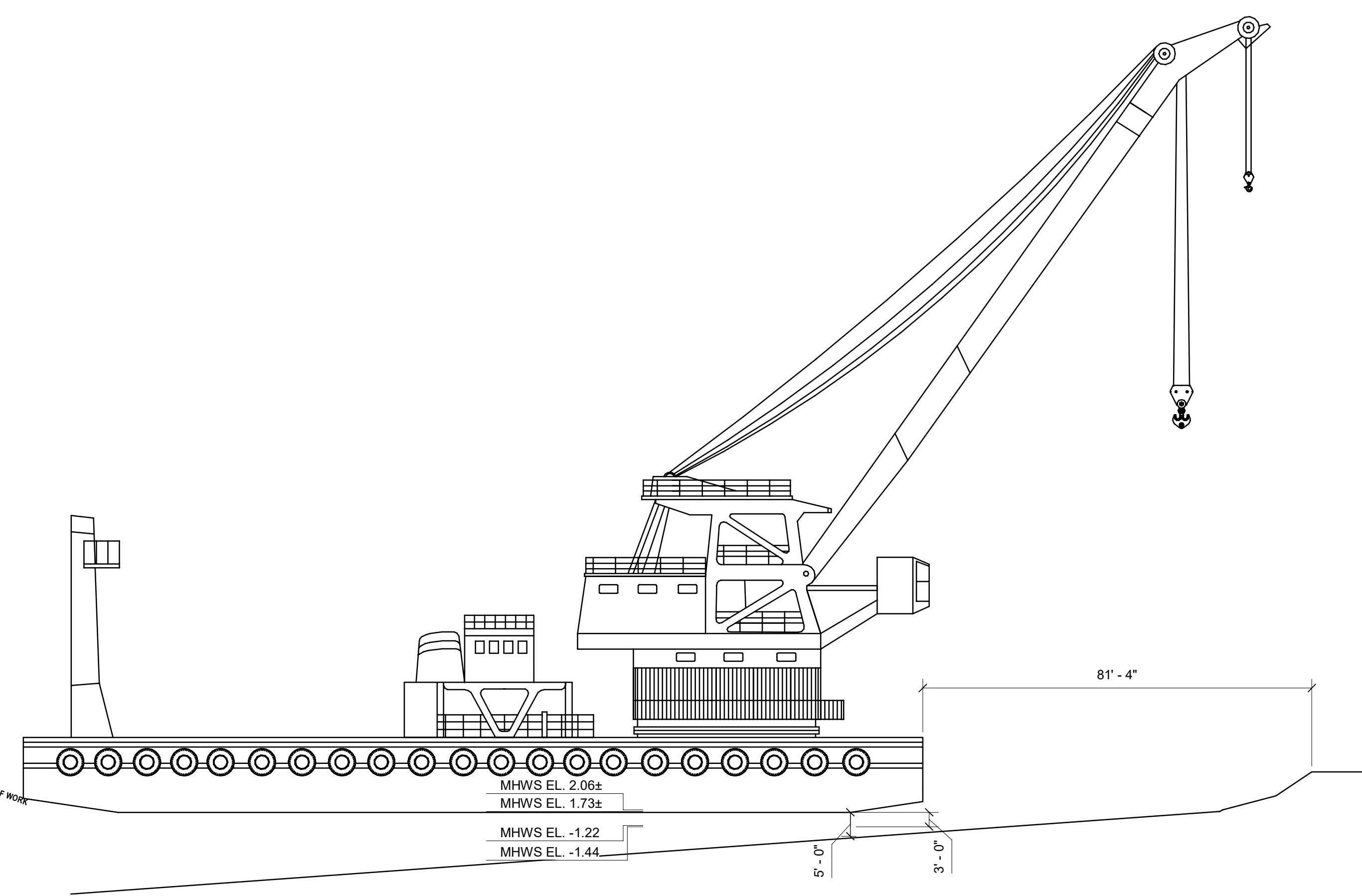
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Client HUDSON HIGHLANDS FJORD TRAIL 85 CIVIC CENTER PLAZA, SUITE 300 POUGHKEEPSIE, NY 12601											
Client Representative ABOUT THE WORK 40 EXCHANGE PLACE, SUITE 1405, NEW YORK, NY 10005											
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Design By: KW	<div style="font-size: 2em; font-weight: bold; transform: rotate(-45deg); opacity: 0.5;">NOT FOR CONSTRUCTION</div>										
Checked By: SP											
Approved By: MC											
Date: 01/26/23											
Sheet Title: GENERAL ARRANGEMENT OVERALL PLAN	Drawing Number: BNB-S-110										
Project Number: 288206	Scale: 1" = 20'-0"										

1
OVERALL PLAN
 1" = 20'-0"

1/27/2023 12:59:48 PM NOT FOR CONSTRUCTION



1 CRANE OPERATION PLAN - SPAN 2
1" = 30'-0"



2 SECTION AT BARGE

- NOTES:
- FOR GENERAL NOTES, REFER TO BNB-S-101 AND BNB-S-102.
 - VIABILITY OF BARGE CONSTRUCTION HAS BEEN VERIFIED BY TMS WATERFRONT AS PART OF THE SEQRA PROCESS AND IS SUMMARIZED IN HHFT - MARINE LOGISTICS MEMO, THE DIAGRAMS ON THIS PAGE HAVE BEEN PRODUCED BY TMS WATERFRONT IN SUPPORT OF THE MEMO AND ARE INCLUDED IN THE BRIDGE SET FOR REFERENCE.
 - WATER DEPTHS AT CONTOURS ARE AT MHW. NAVD88 -10 (11.72) WATER DEPTH AT MHW.
 - A RAILROAD SAFETY FACTOR OF 1.5 WAS MAINTAINED AS PART OF VERIFICATION.
 - VIABILITY OF SWINGING SEGMENT 1 AND 2 AT EXTENDED RADIUS OF 260 FT WAS PRELIMINARILY VERIFIED BY TMS WATERFRONT AND FOUND TO BE FEASIBLE.

Governor Kathy Hochul
Commissioner Erik Kuleseid

Client
HUDSON HIGHLANDS FJORD TRAIL
85 CIVIC CENTER PLAZA, SUITE 300
POUGHKEEPSIE, NY 12601

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411 EAST 11TH STREET, 11TH FLOOR, NEW YORK, NY 10003

Project Title: THE BREAKNECK BRIDGE

Name of Region: Dutchess County
New York

Project Location: Town of Fishkill
Dutchess County
New York

Contract Numbers
GC Contract Number: D-
HVAC Contract Number: D-
Plumbing Contract Number: D-
Electrical Contract Number: D-

REVISIONS		
Rev. No	Description	Date
1	30% CONSTRUCTION DOCUMENTS	10/18/2022
2	60% CONSTRUCTION DOCUMENTS	01/26/2023

Drawn By: MP
Design By: KW
Checked By: SP
Approved By: MC
Date: 01/26/23

Sheet Title: CONSTRUCTION SEQUENCE SHEET 2
Drawing Number: BNB-S-701

Project Number: 288206
Scale: AS INDICATED

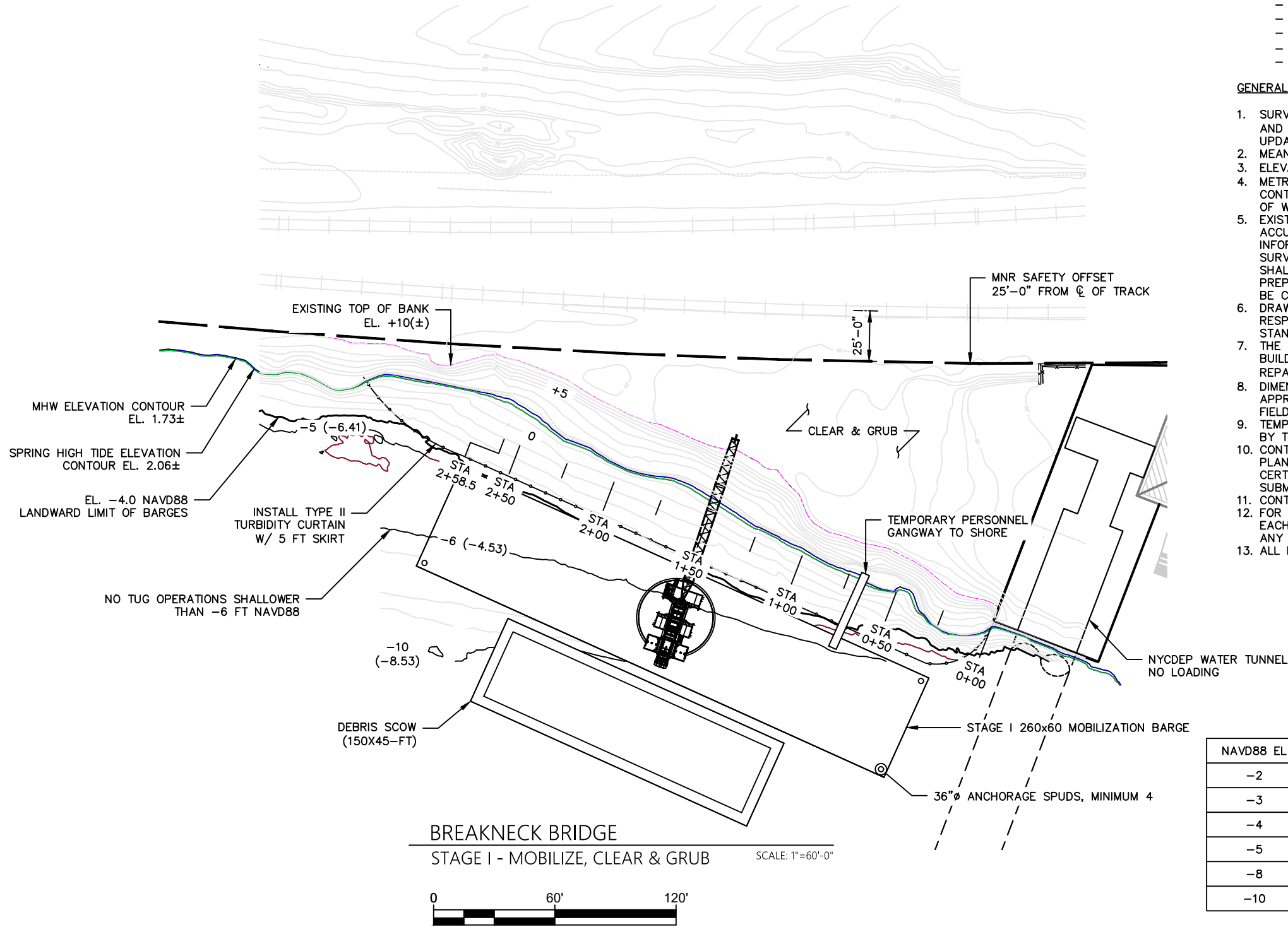
NOT FOR CONSTRUCTION

1/26/2023 7:15:02 AM NOT FOR CONSTRUCTION

Attachment 4d

Breakneck Connector and Bridge Project

Marine Logistics Drawings



SILT CURTAIN/CONTAINMENT BOOM NOTES

1. THE DISCARDING OF ANY MATERIAL INTO THE WATERWAY IS PROHIBITED. NO HARBOR DRIFT IS ALLOWED. APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT HARBOR DRIFT INCLUDING:
 - A. INSTALLING AND MAINTAIN FLOATING BOOMS TO PREVENT THE ESCAPE OF FLOATING MATERIALS FROM THE SITE AND NETTING, FLOAT STAGES WITH CURBS AND ANY OTHER TEMPORARY STRUCTURES USED TO PREVENT SOIL, STONE, CONCRETE, METALS AND OTHER NON-FLOATING DEBRIS FROM ENTERING THE WATERWAY AND REQUIRED TO PROVIDE PROTECTION.
 - B. THE BOOM SYSTEM SHALL BE DESIGNED FOR THE WAVE HEIGHT AND CURRENTS ANTICIPATED IN THE WORK AREA. SUBMIT A PLAN AND DETAILS WITH THE MANUFACTURER'S LITERATURE FOR THE SELECTED BOOM SYSTEM. THE FLOATING BOOM TURBIDITY BARRIER SHALL BE A FULL DEPTH SILT BOOM CONTAINMENT BARRIER MONOFILAMENT TYPE, WITH PVC COATED POLYESTER FLOAT COVER, CLOSED CELL PE FOAM FLOATATION (12" DIA. MIN.), FULL DEPTH PVC GEOMEMBRANE SKIRT, LACING GROMMET END CONNECTIONS, BALLAST CHAIN AND ALL OTHER ACCESSORIES.
 - C. TEMPORARY SILT CURTAIN/CONTAINMENT BOOM, AS NEEDED AND REQUIRED BY PERMIT, SHALL BE SILT AND TURBIDITY BARRIER, SUCH AS SILTMAX TYPE II DOT BY ELASTEC, OR APPROVED EQUAL. ANCHOR AS REQUIRED TO FULLY RESTRAIN FROM MOVEMENT. SILT CURTAIN/CONTAINMENT BOOM SHALL INCLUDE, AS A MINIMUM:
 - MARKER LIGHTS AT 100' O.C.
 - REINFORCED ANCHOR POINTS AT 25' O.C. FOR WIRE ATTACHMENT TO TEMPORARY PILES OR OTHER PURPOSES
 - SKIRT REEFING LINES AT 8' O.C.
 - 3/4" DIA. GALVANIZED BALLAST CHAIN, AS REQUIRED
 - HORIZONTAL CARGO WEBBING, AS REQUIRED, WITH 2" DIA. SUPPORT RINGS ON EACH SIDE AT 25' O.C.

GENERAL NOTES

1. SURVEY TAKEN FROM "HUDSON HIGHLANDS FJORD TRAIN (BREAKNECK TUNNEL TO BREAKNECK STATION) PROPERTY LINE AND TOPOGRAPHIC SURVEY" PREPARED BY BADEY & WATSON SURVEYING & ENGINEERING, P.C., DATED 26 JUNE 2020; UPDATED 29 JULY 2021.
2. MEAN HIGH WATER ELEVATION CONTOUR IS TAKEN FROM SURVEY.
3. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. METRO NORTH RAILROAD (MNR) STRUCTURES LOCATION AND DETAILS ARE BASED UPON THE TOPOGRAPHIC SURVEY. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CRANE ERECTIONS, BRIDGE ERECTION, AND COMMENCEMENT OF WORK.
5. EXISTING CONDITIONS ARE BASED ON AVAILABLE INFORMATION AND SURVEY REPORTS WHICH MAY NOT COMPLETELY AND ACCURATELY DEPICT CONDITIONS AT THE TIME OF CONSTRUCTION. TOPOGRAPHIC AND BATHYMETRIC SURVEY INFORMATION SHOWN IS ONLY REPRESENTATIVE OF THE CONDITIONS EXISTING AT THE RESPECTIVE TIMES OF THE SURVEYS. ACTUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL BASE BID ON THEIR OWN RECONNAISSANCE OF THE SITE AND FIELD VERIFY CONDITIONS INDICATED, PRIOR TO PREPARING SHOP DRAWINGS, ORDERING MATERIALS OR PERFORMING THE WORK. NO EXTRA WORK COMPENSATION WOULD BE CONSIDERED FOR CONDITIONS WHICH COULD BE KNOWN BEFORE CONSTRUCTION.
6. DRAWINGS DO NOT ADDRESS SITE SAFETY ISSUES RELATED TO THE WORK SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY AND PROVIDE A SITE SAFETY PLAN CONFORMING TO OSHA STANDARDS, NEW YORK STATE STANDARDS AND MNR REQUIREMENTS.
7. THE CONTRACTOR SHALL TAKE ALL CARE NECESSARY TO AVOID DAMAGE TO THE MNR TRACKS, EXISTING ADJACENT BUILDINGS AND ALL OTHER STRUCTURES OR UTILITIES TO REMAIN AND BE PROTECTED. ANY DAMAGES SHALL BE REPAIRED TO THE SATISFACTION OF THE DAMAGED STRUCTURE'S OWNER AT THE SOLE EXPENSE OF THE CONTRACTOR.
8. DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES AND/OR UTILITIES TO REMAIN AND BE PROTECTED ARE APPROXIMATE. CONTRACTOR TO NOTIFY THE OWNER IMMEDIATELY OF DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD OBSERVATIONS.
9. TEMPORARY UTILITIES, AS REQUIRED FOR THE COMPLETION OF THE WORK, SHALL BE OBTAINED, PERMITTED AND PAID FOR BY THE CONTRACTOR.
10. CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE OWNER FOR REVIEW PRIOR TO COMMENCING THE WORK: SAFETY PLANS; CRANE CRITICAL LIFT PLANS, CRANE BEARING PRESSURE AND GROUND PRESSURE CALCULATIONS AND CERTIFICATIONS, CRANE INSPECTIONS, INSTALLATION SEQUENCE PLANS; AND OTHER RELATED INFORMATION REQUIRING SUBMISSION.
11. CONTRACTOR IS DIRECTED NOT TO PLACE EQUIPMENT BELOW MHW OR SEAWARD OF MHW.
12. FOR EACH SEQUENCE AND MOVE, CONTRACTOR IS TO SUBMIT BARGE DIMENSIONS, DRAFTS AND VESSELS DRAFT FOR EACH SEQUENCE. KEEL AND PROPELLER CLEARANCES ARE NO LESS THAN 2 FEET TO THE MUDLINE, AT NO TIME SHALL ANY VESSELS OR BARGES GROUND OUT OR IMPACT THE MUDLINE.
13. ALL BARGE CRANES TO HAVE CERTIFIED USCG STABILITY AND LIFT LETTER WITH CURRENT INSPECTION.

LEGEND

--- TURBIDITY CURTAIN

NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

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DATE	SUBMISSIONS / REVISIONS
05.11.22	PRELIMINARY REVIEW

PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

LOCATED AT
HUDSON RIVER

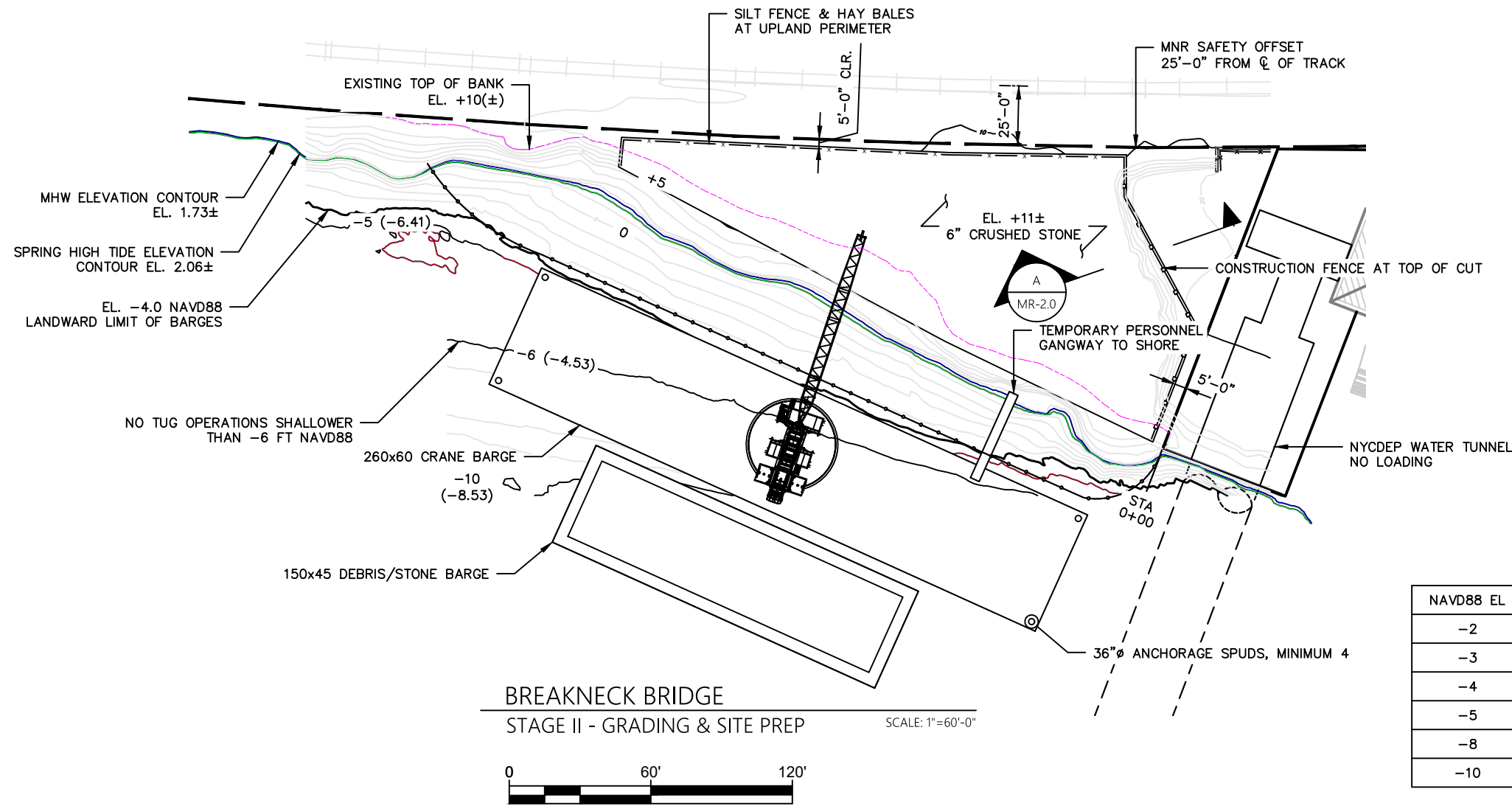
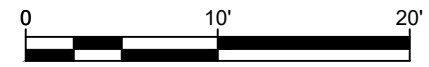
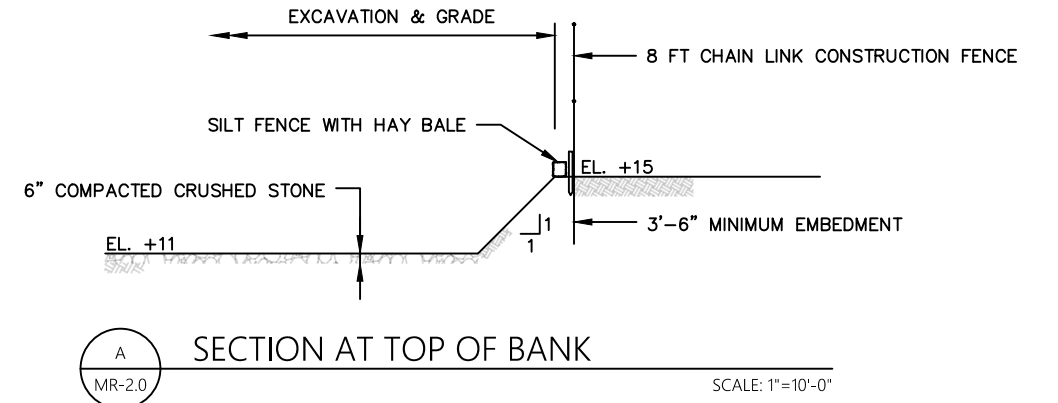
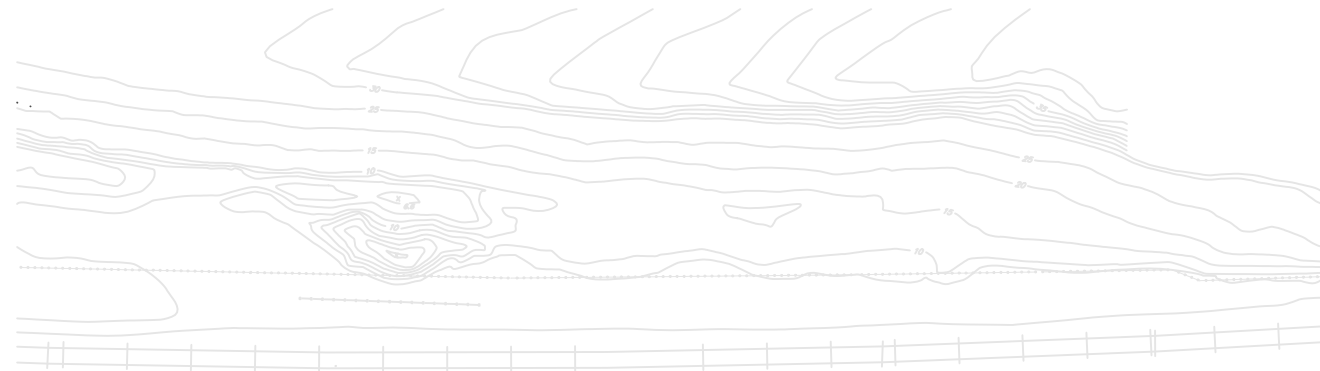
PREPARED FOR
HUDSON HIGHLANDS FJORD TRAIL, INC.

ROCKLAND COUNTY

OWNER:
 11 CIVIC CENTER PLAZA, STE 200
 Poughkeepsie, NY 12601
 TEL: XXX.XXX.XXXX
 FAX: XXX.XXX.XXXX

SHEET TITLE:
**STAGE I - MOBILIZE,
 CLEAR & GRUB**

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
DRAWN BY: JK	CHECKED BY: ST
SCALE: 1"=60'-0"	SHEET NO: 1 OF 10
DRAWING NO:	MR-1.0



NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

LEGEND

- x-x-x- SILT FENCE & HAY BALES
- o-o- CONSTRUCTION FENCE
- o-o- TURBIDITY CURTAIN

NOTES:

1. CONTRACTOR TO CLEAR AND GRADE SITE TO LEVEL, STABLE GROUND AND ADD 6 INCHES COMPACTED AND CRUSHED STONE.
2. EQUIPMENT TO BE LIFTED ONTO LAND BY CRANE OR ROLLED OFF VIA RAMP. CONTRACTOR TO PERFORM ALL LIFTING CALCULATION AND CRANE PLANS. NO LIFTS ARE TO EXCEED 85% OF THE RATED CRANE CAPACITY.



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05.11.22	PRELIMINARY REVIEW

PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

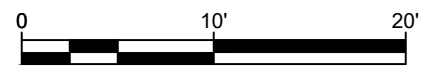
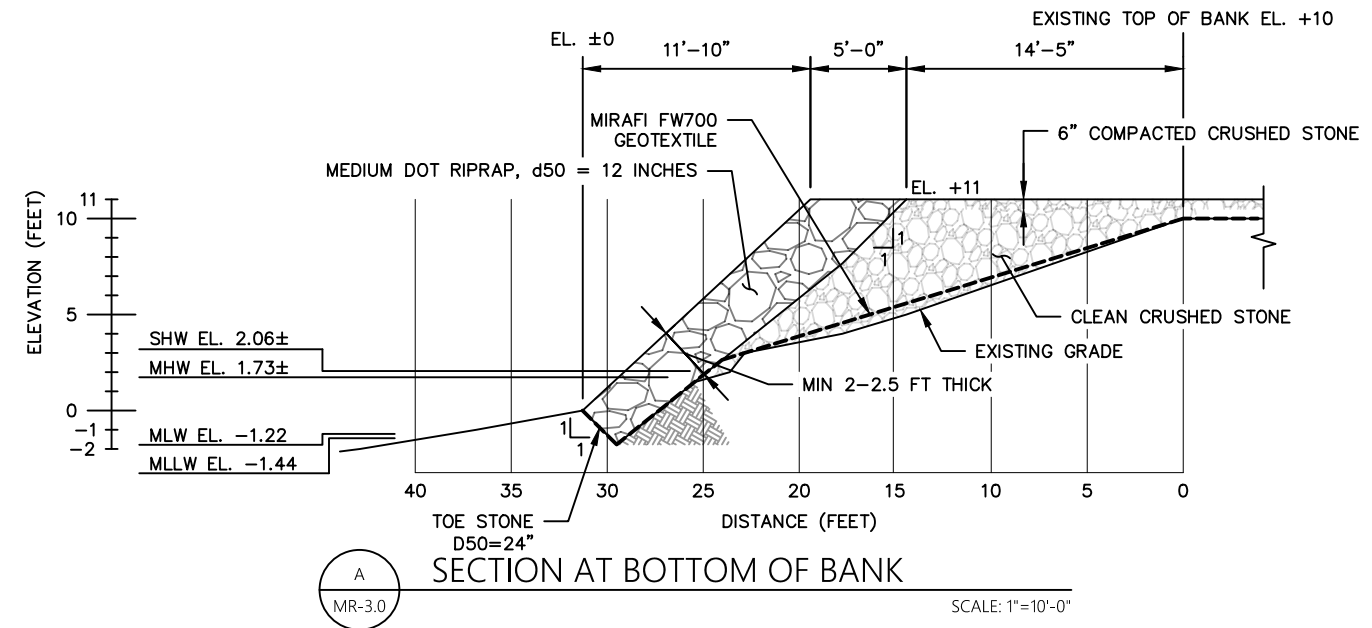
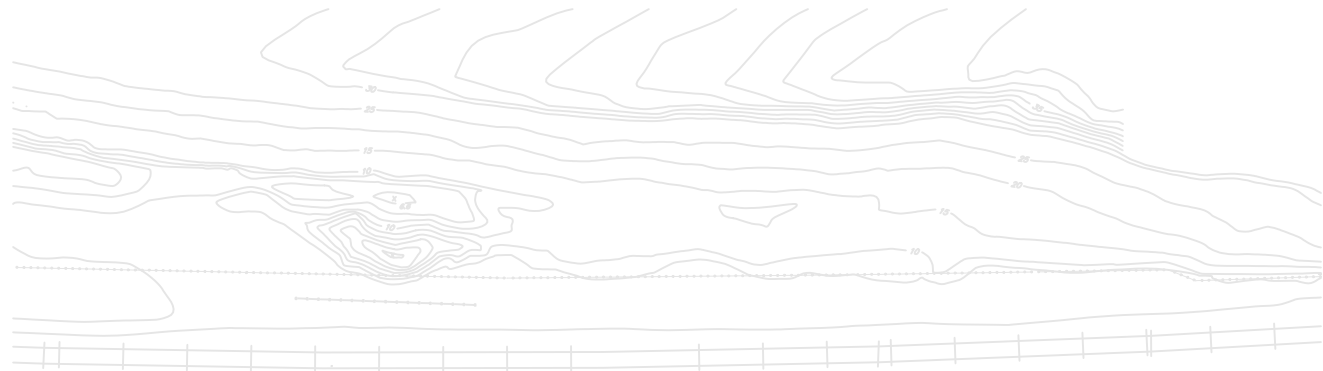
LOCATED AT
HUDSON RIVER
ROCKLAND COUNTY

PREPARED FOR
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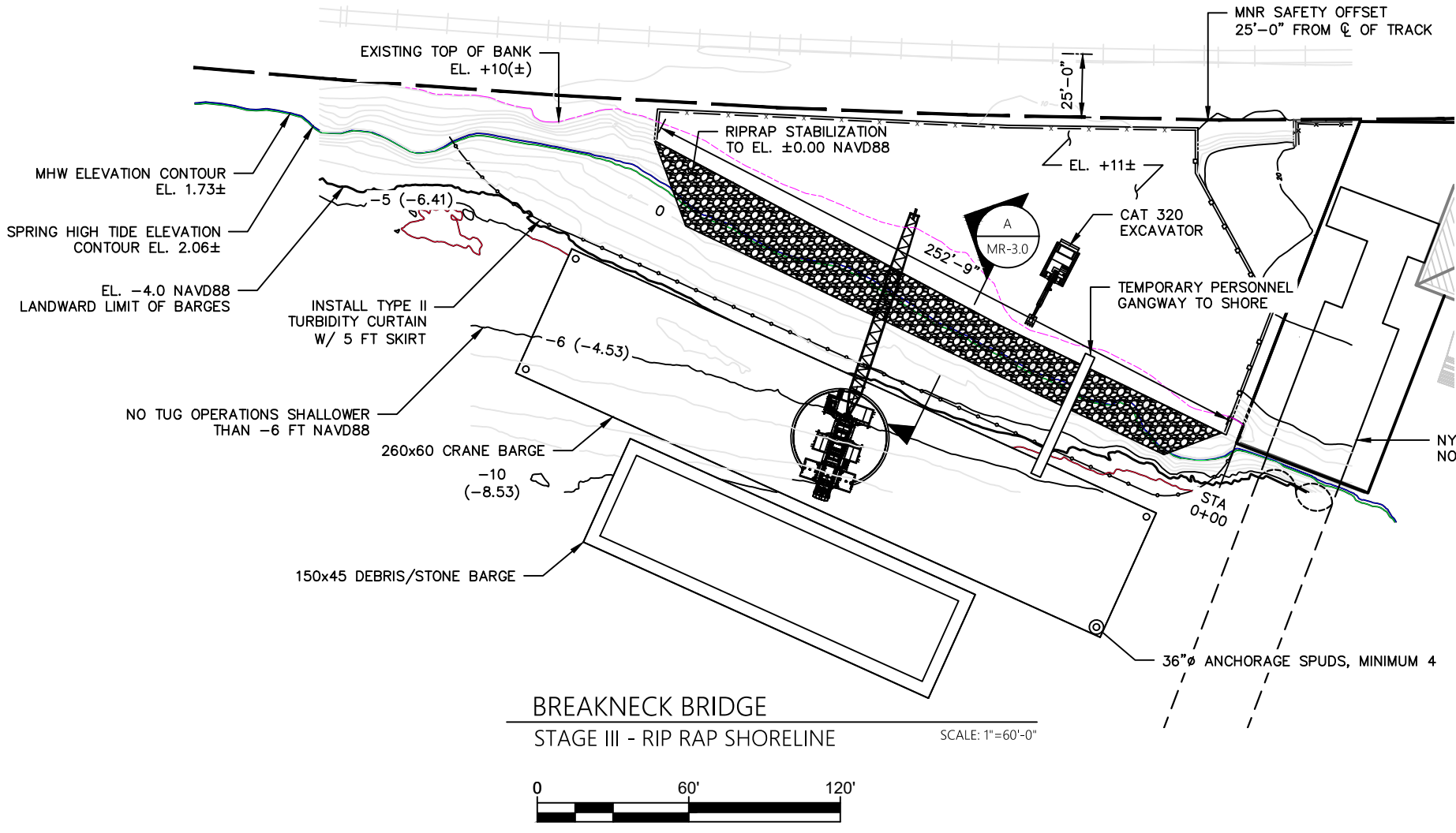
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POUGHKEEPSIE, NY 12601
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SHEET TITLE:
**STAGE II - GRADING
AND SITE PREP**

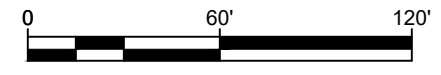
ISSUE DATE: 01.23.2023	PROJECT NO: 22065
DRAWN BY: JK	CHECKED BY: ST
SCALE: AS NOTED	SHEET NO: 2 OF 10
DRAWING NO: MR-2.0	



- NOTES:**
- CONTRACTOR TO CLEAR AND GRADE SITE TO LEVEL, STABLE GROUND AND ADD 6 INCHES COMPACTED AND CRUSHED STONE.
 - EQUIPMENT TO BE LIFTED ONTO LAND BY CRANE OR ROLLED OFF VIA RAMP. CONTRACTOR TO PERFORM ALL LIFTING CALCULATION AND CRANE PLANS. NO LIFTS ARE TO EXCEED 85% OF THE RATED CRANE CAPACITY.
 - RIVER BED ARMORING STONE (PRIMARY CRUSHER RUN QUARRY STONE): MAXIMUM SIZE OF 18 INCHES, DOWN TO SPALLS OR GRAVEL OF 1 INCH SIZE, SUFFICIENT TO FILL VOIDS BETWEEN LARGER PIECES. AVERAGE STONE SIZE SHALL BE 9 INCHES (TOTAL WEIGHT OF STONES LARGER THAN THIS SHALL EQUAL THE TOTAL WEIGHT OF STONES WHICH ARE SMALLER). STONE SHALL NOT CONTAIN MORE THAN 20% BY WEIGHT OF PIECES SMALLER THAN ONE INCH.
 - CALCULATED FILL FOR TEMPORARY RIPRAP STABILIZATION:
126.97 CY BELOW MHSIMHHW
112.06 CY BELOW MHW



BREAKNECK BRIDGE
STAGE III - RIP RAP SHORELINE
 SCALE: 1"=60'-0"



- LEGEND**
- x-x-x- SILT FENCE & HAY BALES
 - o--- CONSTRUCTION FENCE
 - o--- TURBIDITY CURTAIN

NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

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DATE	SUBMISSIONS / REVISIONS
05.11.22	PRELIMINARY REVIEW

PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

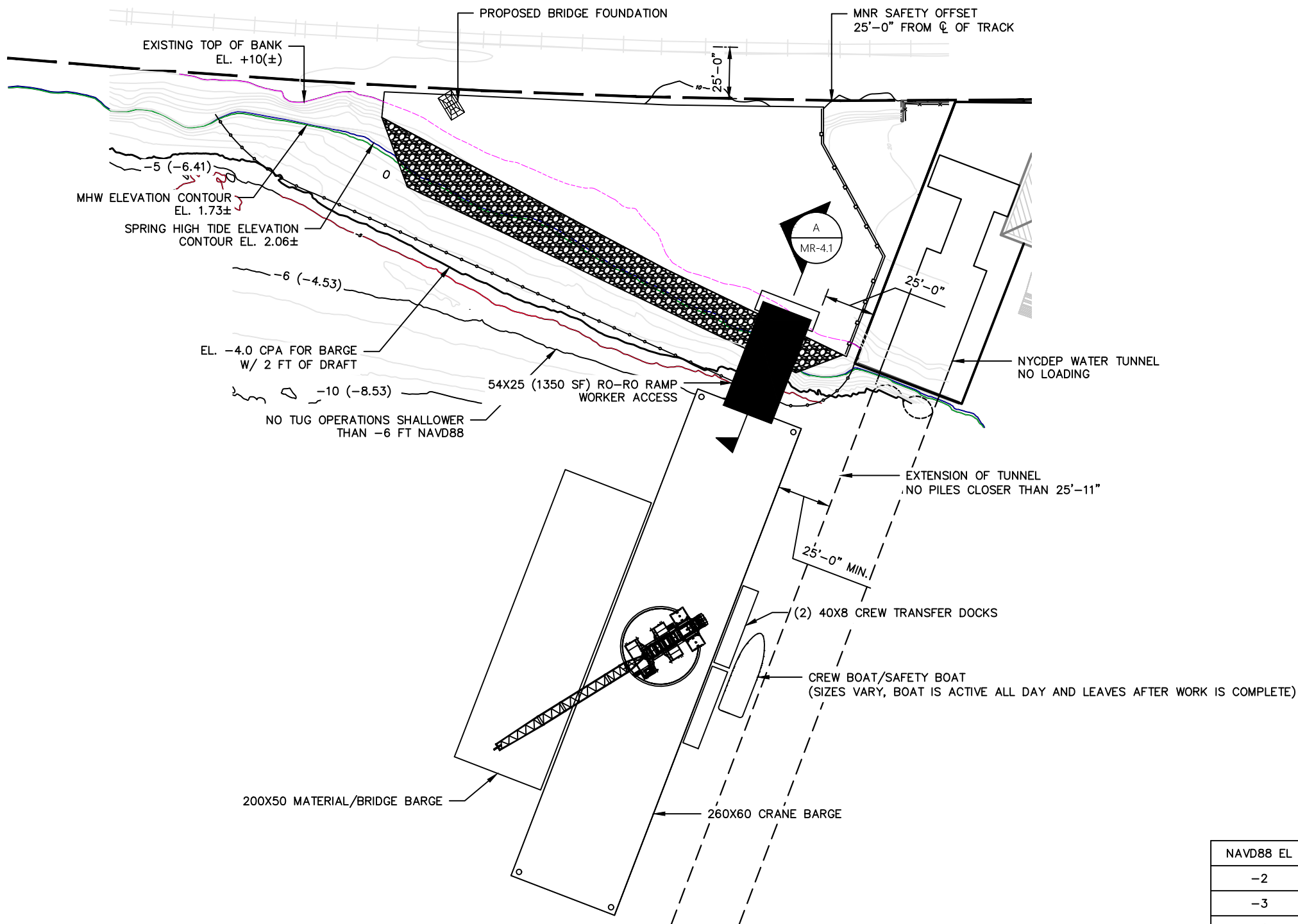
LOCATED AT
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 ROCKLAND COUNTY

PREPARED FOR
 HUDSON HIGHLANDS FJORD TRAIL, INC.

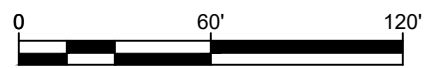
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 1 CIVIC CENTER PLAZA, STE 200
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 FAX: XXX.XXX.XXXX

SHEET TITLE:
STAGE III - RIP RAP SHORELINE

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
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SCALE: AS NOTED	SHEET NO: 3 OF 10
DRAWING NO: MR-3.0	



BREAKNECK BRIDGE
 STAGE IV - BRIDGE FOUNDATION CONSTRUCTION SCALE: 1"=60'-0"



NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

- LEGEND**
- x - x - SILT FENCE & HAY BALES
 - o - o - CONSTRUCTION FENCE
 - o - o - TURBIDITY CURTAIN

- NOTE(S):**
- A. RO-RO RAMP OVER WATER COVERAGE: 1350 SF
 - B. THE CREW BOAT/SAFETY BOAT WILL HAVE VARIOUS SIZES AVAILABLE. THE BOAT IS USED TO TRANSPORT PERSONNEL TO SITE DAILY AND WILL BE HOME PORTED OFFSITE OVERNIGHT AT A MARINA.
 - C. CREW TRANSFER DOCKS ARE FOR SAFE MOVEMENT OF PERSONNEL FROM THE CREW BOATS TO THE BARGE. THESE ARE TIMBER OR ALUMINUM FLOATING DOCKS 8-FT WIDE BY 40-FT LONG THAT ARE TIED TO THE BARGE, NOT ANCHORED.
 - D. THE NYCDEP WATER TUNNEL INFLUENCE EXCLUSIONS ZONE EXTENDS 25-FT TO EITHER SIDE OF THE LIMITS. NO ANCHORING, MOORING, SPUDDING OR EQUIPMENT SHOULD BE PLACED IN THE EXCLUSION ZONE.

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DATE	SUBMISSIONS / REVISIONS
05.11.22	PRELIMINARY REVIEW

PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

LOCATED AT
 HUDSON RIVER

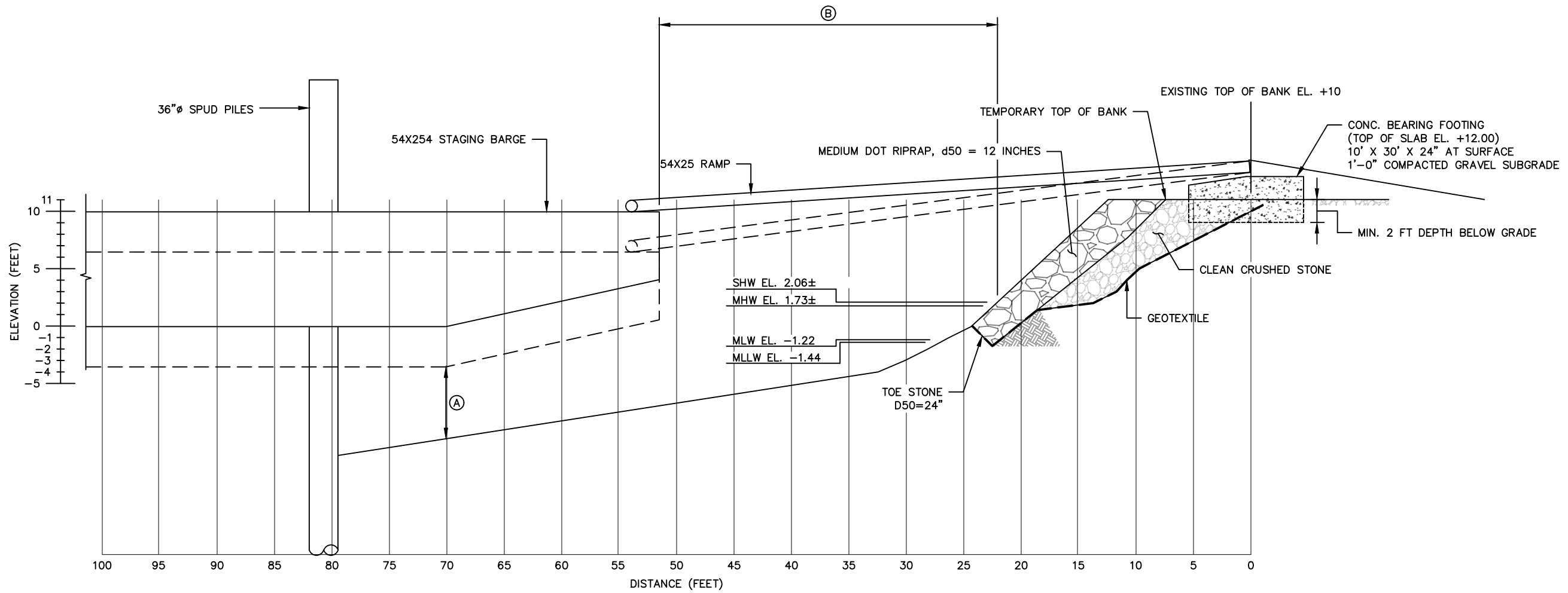
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ROCKLAND COUNTY

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 1 CIVIC CENTER PLAZA, STE 200
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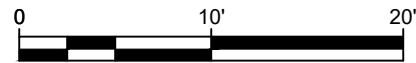
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STAGE IV - RIP RAP SHORELINE

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
DRAWN BY: JK	CHECKED BY: ST
SCALE: AS NOTED	SHEET NO: 4 OF 10
DRAWING NO: MR-4.0	



A SECTION AT BARGE AT MLLW
MR-4.1

SCALE: 1"=10'-0"



NOTES:

- Ⓐ HULL MAINTAIN 2 FT CLEAR AT ALL TIMES
- Ⓑ RAMP COVERAGE OVER WATER – 743.75 SF



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PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

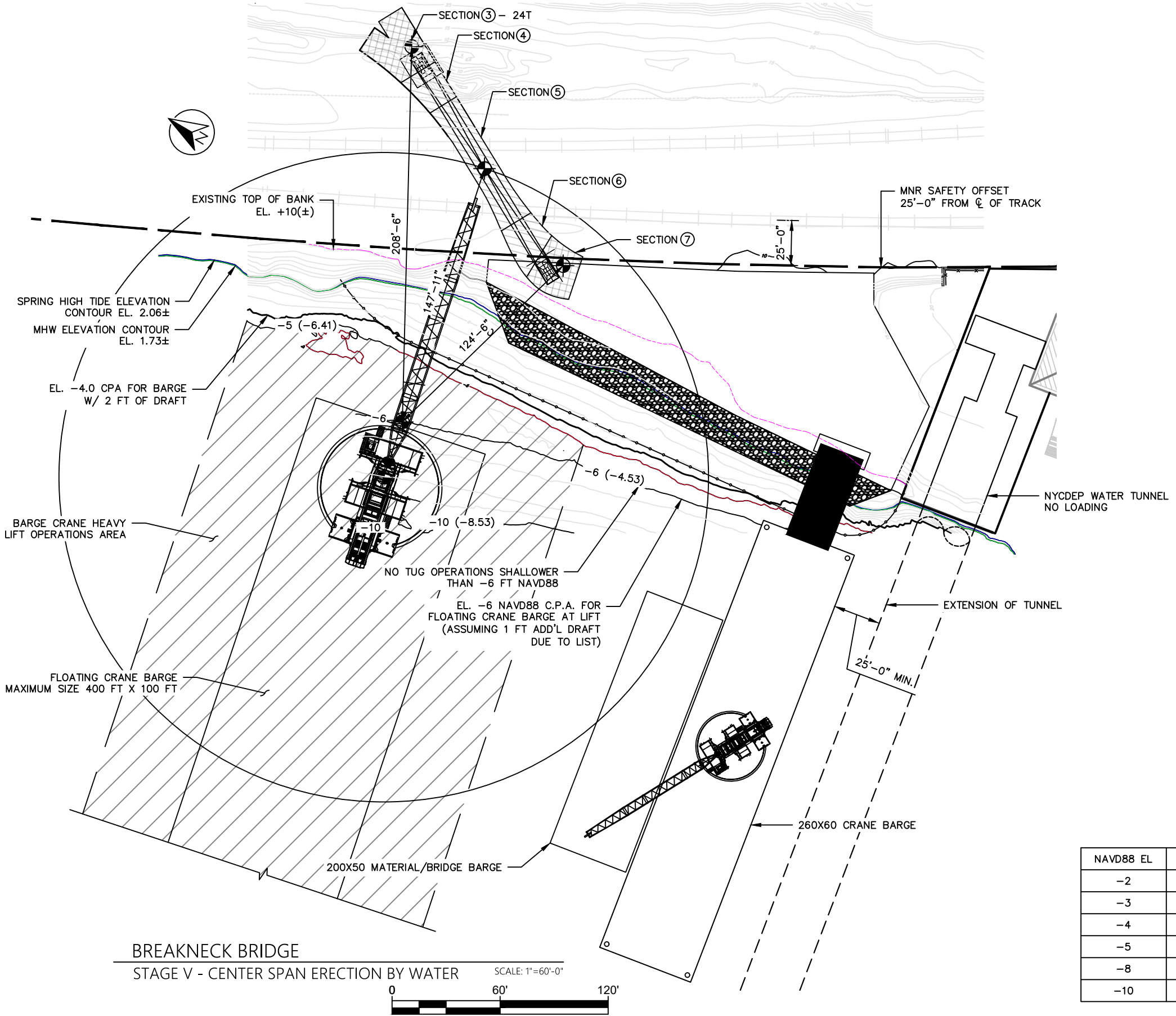
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ROCKLAND COUNTY

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POUGHKEEPSIE, NY 12601
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SHEET TITLE:
**SECTION AT BARGE AT
MLLW**

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
DRAWN BY: JK	CHECKED BY: ST
SCALE: AS NOTED	SHEET NO: 5 OF 10
DRAWING NO: MR-4.1	



LEGEND

--- TURBIDITY CURTAIN

SEGMENTATION

SEGMENT	3	4	5	6	7
WEIGHT	24T	12T	22T	12T	24T
COMBINATIONS					
Ⓐ	4, 5, 6		46T		
Ⓑ	3, 4, 5, 6, 7				

NOTE(S):

A. THE NYCDEP WATER TUNNEL INFLUENCE EXCLUSIONS ZONE EXTENDS 25-FT TO EITHER SIDE OF THE LIMITS. NO ANCHORING, MOORING, SPUDDING OR EQUIPMENT SHOULD BE PLACED IN THE EXCLUSION ZONE.

NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

BREAKNECK BRIDGE

STAGE V - CENTER SPAN ERECTION BY WATER

SCALE: 1"=60'-0"



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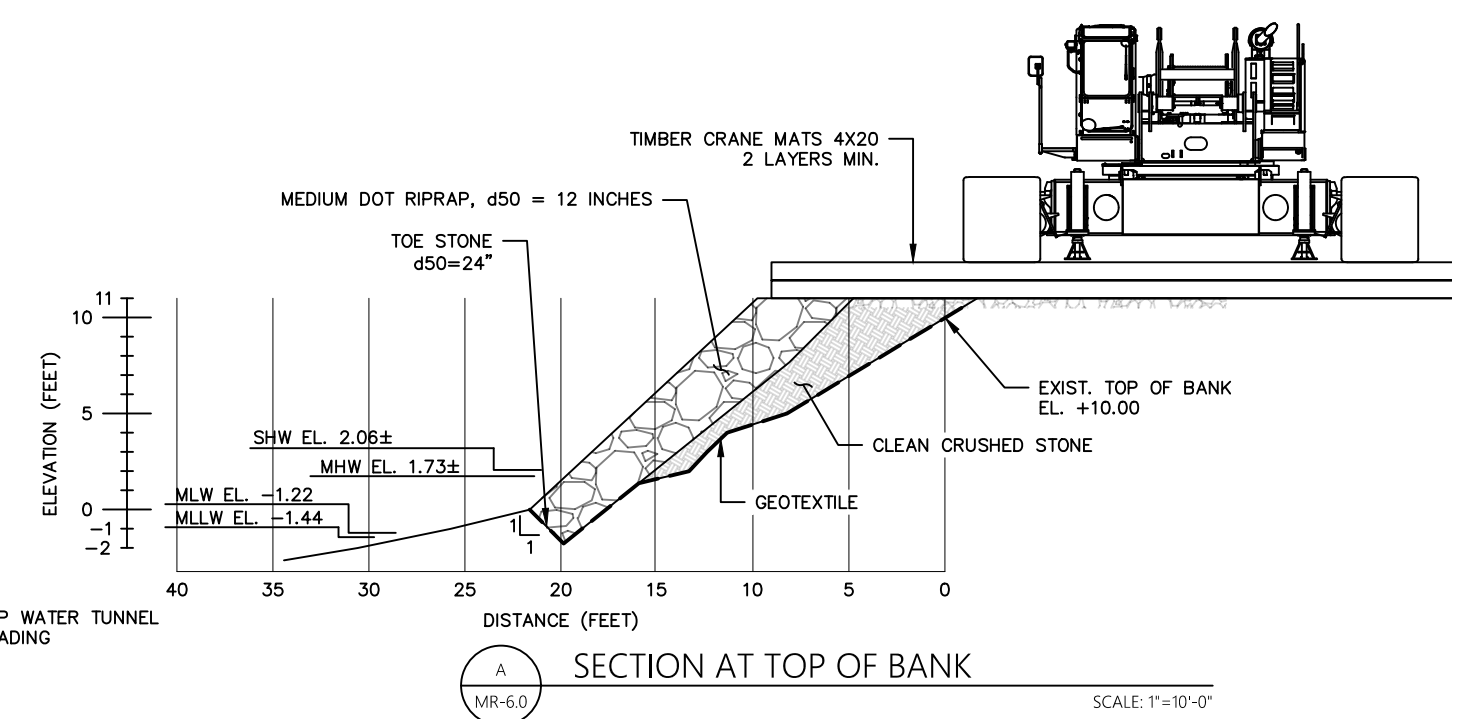
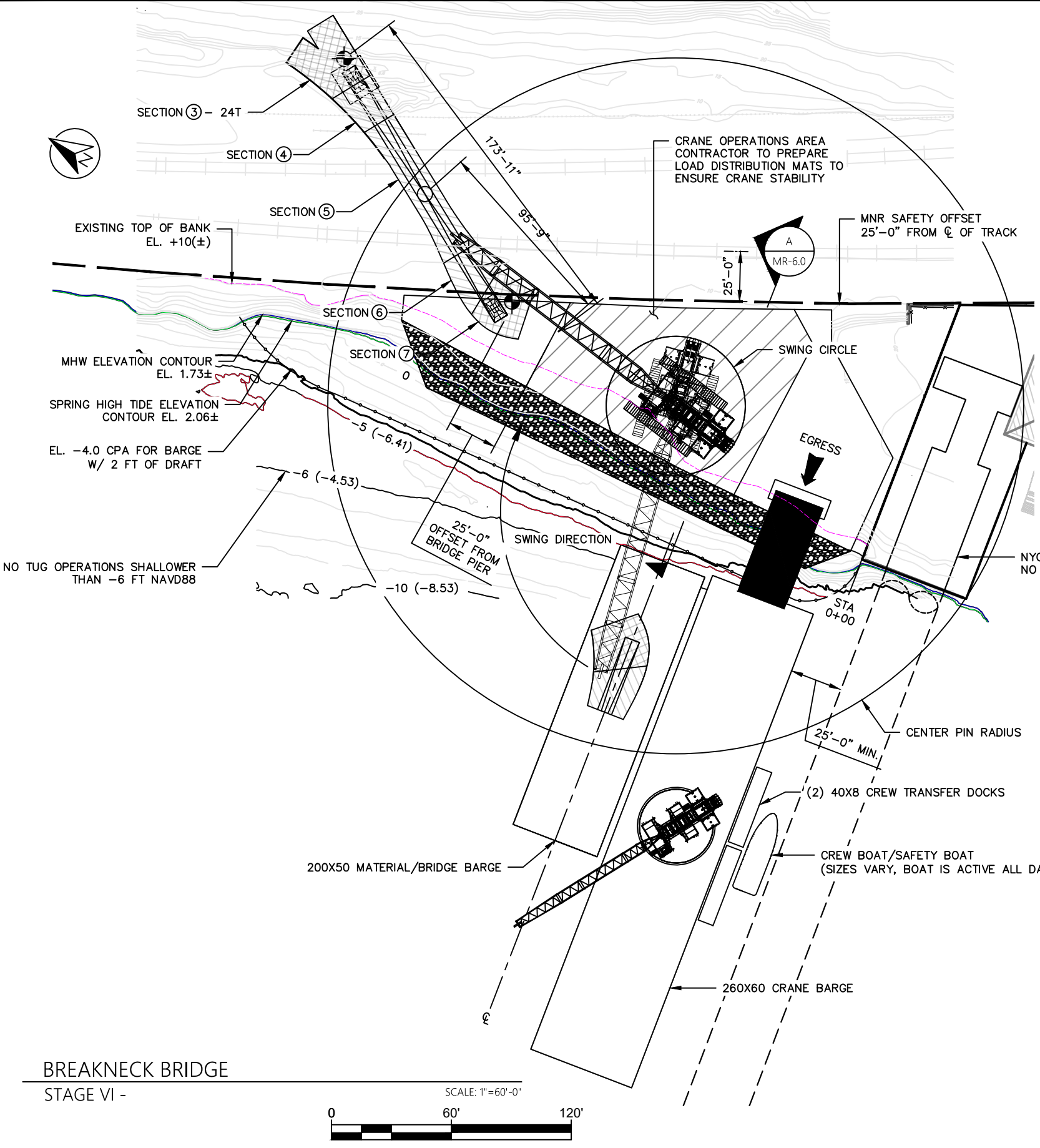
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OWNER:
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 FAX:

SHEET TITLE:
**STAGE V - CENTER SPAN
 ERECTION BY WATER**

ISSUE DATE: 01.23.2023
 PROJECT NO: 22065
 DRAWN BY: JK
 CHECKED BY: ST
 SCALE: AS NOTED
 SHEET NO: 6 OF 10
 DRAWING NO: MR-5.0



NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

LEGEND

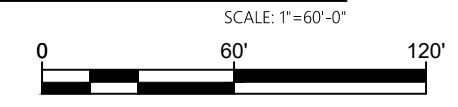
--- TURBIDITY CURTAIN

SEGMENTATION

SEGMENT	3	4	5	6	7
WEIGHT	24T	12T	22T	12T	24T
COMBINATIONS					
Ⓐ	4, 5, 6		46T		
Ⓑ	3, 4, 5, 6, 7 94T				

NOTE(S):
 A. THE NYCDEP WATER TUNNEL INFLUENCE EXCLUSIONS ZONE EXTENDS 25-FT TO EITHER SIDE OF THE LIMITS. NO ANCHORING, MOORING, SPUDDING OR EQUIPMENT SHOULD BE PLACED IN THE EXCLUSION ZONE.

BREAKNECK BRIDGE
 STAGE VI -



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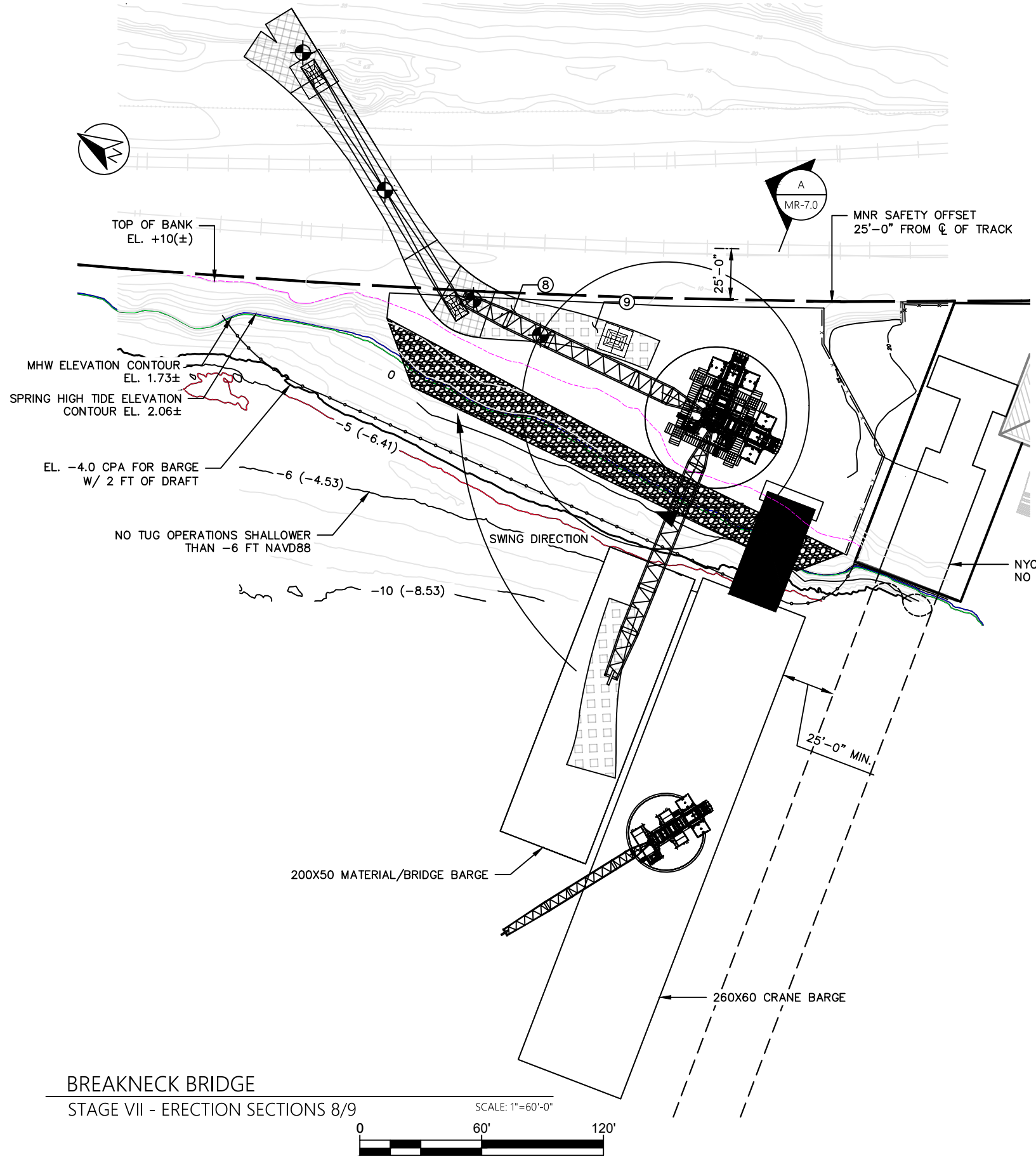
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OWNER:
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 FAX:

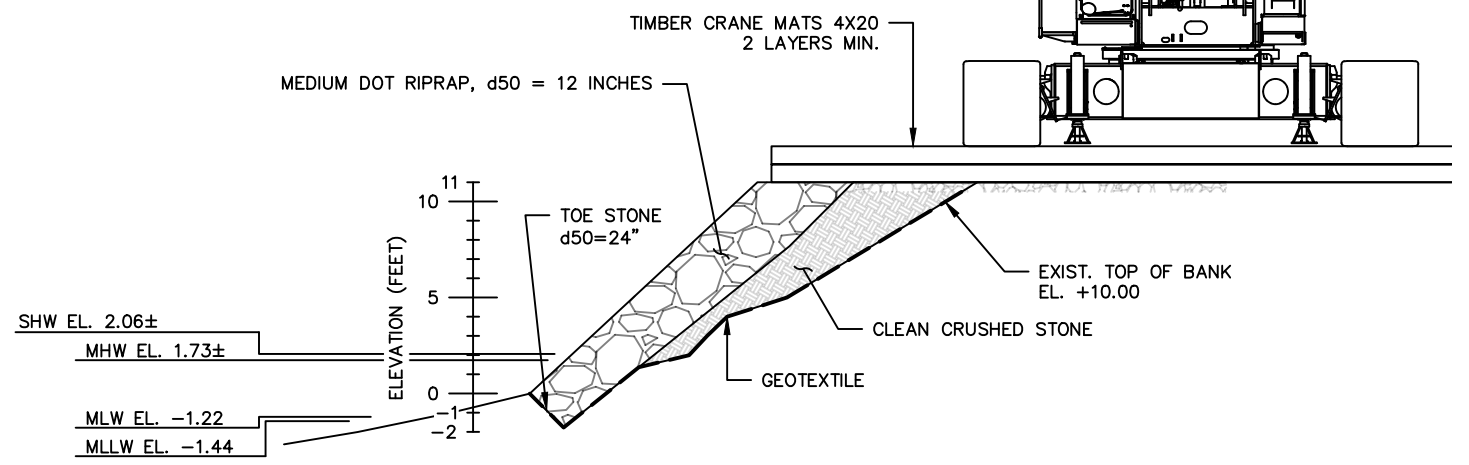
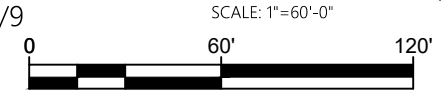
SHEET TITLE:
STAGE VI -

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
DRAWN BY: JK	CHECKED BY: ST
SCALE: AS NOTED	SHEET NO: 7 OF 10
DRAWING NO: MR-6.0	



BREAKNECK BRIDGE

STAGE VII - ERECTION SECTIONS 8/9



SECTION AT TOP OF BANK
SCALE: 1"=10'-0"

NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

LEGEND

--- TURBIDITY CURTAIN

SEGMENT	8	9	10	11	12
WEIGHT	22T	24T	22T	23T	12T
COMBINATIONS	46T		22T	23T	12T

NOTE(S):
A. THE NYCDEP WATER TUNNEL INFLUENCE EXCLUSIONS ZONE EXTENDS 25-FT TO EITHER SIDE OF THE LIMITS. NO ANCHORING, MOORING, SPUDDING OR EQUIPMENT SHOULD BE PLACED IN THE EXCLUSION ZONE.

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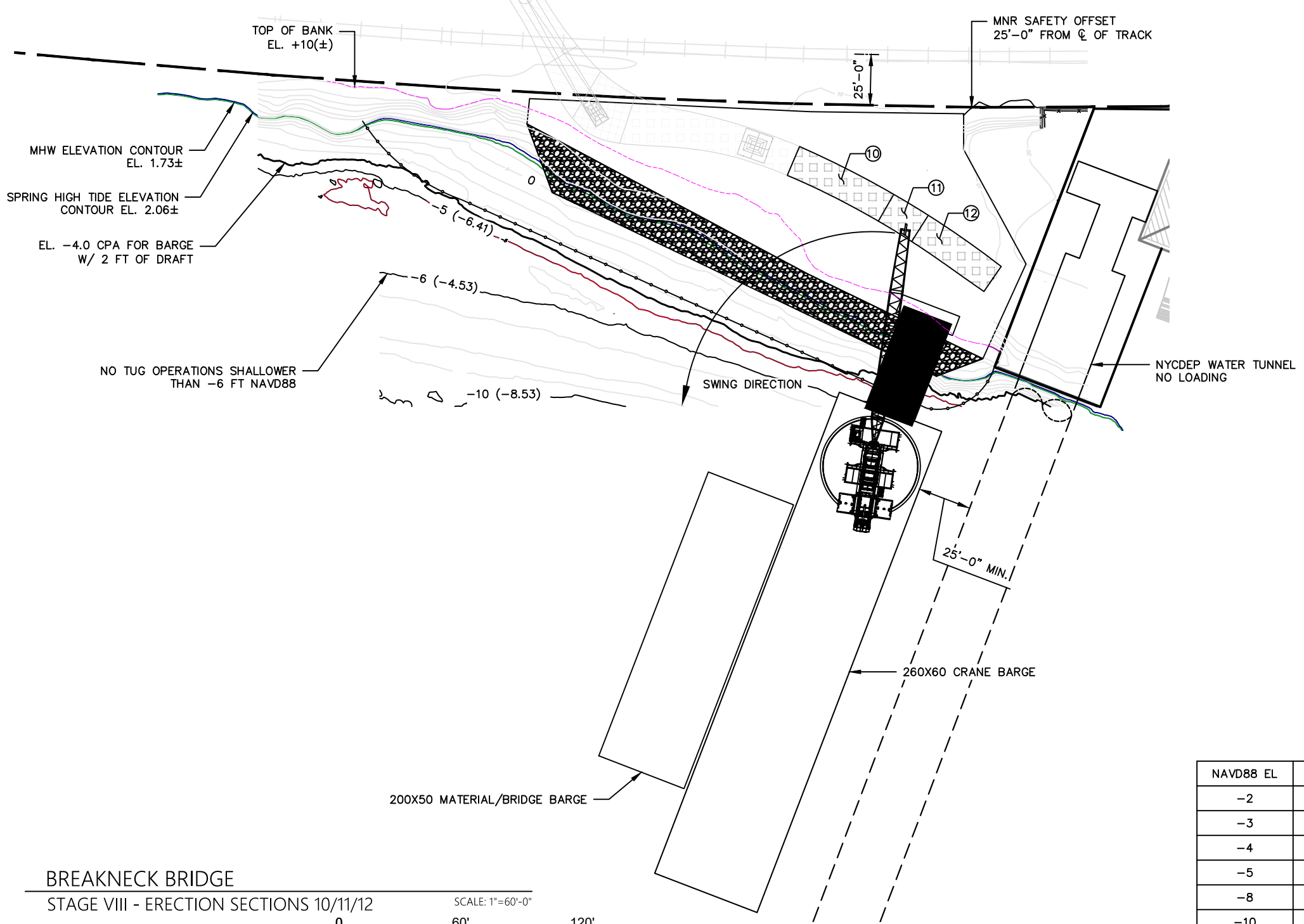
LOCATED AT
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PREPARED FOR
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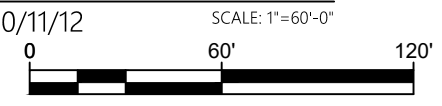
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SHEET TITLE:
STAGE VII - ERECTION SECTIONS 8/9

ISSUE DATE: 01.23.2023
PROJECT NO: 22065
DRAWN BY: JK
CHECKED BY: ST
SCALE: AS NOTED
SHEET NO: 8 OF 10
DRAWING NO: **MR-7.0**



BREAKNECK BRIDGE
 STAGE VIII - ERECTION SECTIONS 10/11/12



NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

LEGEND

--- TURBIDITY CURTAIN

SEGMENTATION

SEGMENT	8	9	10	11	12
WEIGHT	22T	24T	22T	23T	12T
COMBINATIONS					
Ⓒ 8, 9	46T				
Ⓓ 10			22T		
Ⓔ 11					23T
Ⓕ 12					12T

NOTE(S):

A. THE NYCDEP WATER TUNNEL INFLUENCE EXCLUSIONS ZONE EXTENDS 25-FT TO EITHER SIDE OF THE LIMITS. NO ANCHORING, MOORING, SPUDDING OR EQUIPMENT SHOULD BE PLACED IN THE EXCLUSION ZONE.

TORVALSEN CONSULTING, LLC
 DBA TMS WATERFRONT
 ONE VAN HOUTEN STREET
 NYACK, NY 10960
 +1.917.428.6788
 WWW.TMS-WATERFRONT.COM

DATE	SUBMISSIONS / REVISIONS

PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

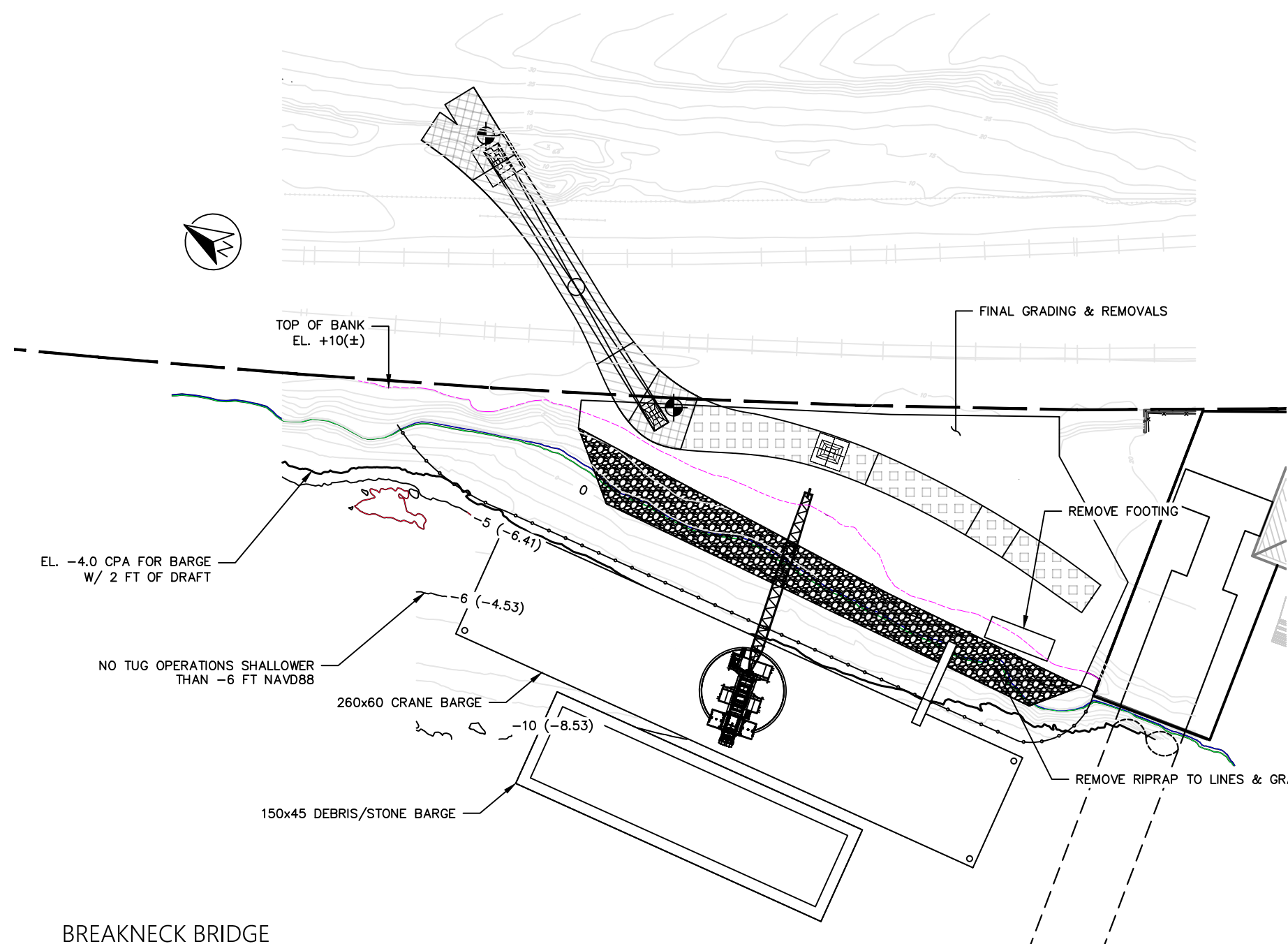
LOCATED AT
 HUDSON RIVER
 ROCKLAND COUNTY

PREPARED FOR
 HUDSON HIGHLANDS FJORD TRAIL, INC.

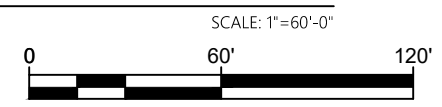
OWNER:
 1 CIVIC CENTER PLAZA, STE 200
 Poughkeepsie, NY 12601
 TEL:
 FAX:

SHEET TITLE:
STAGE VIII - ERECTION SECTIONS 10/11/12

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
DRAWN BY: JK	CHECKED BY: ST
SCALE: AS NOTED	SHEET NO: 9 OF 10
DRAWING NO: MR-8.0	



BREAKNECK BRIDGE
STAGE IX - DEMOBILIZATION



NAVD88 EL	WATER DEPTH
-2	0.53 Ft
-3	1.53 Ft
-4	2.53 Ft
-5	3.53 Ft
-8	6.53 Ft
-10	8.53 Ft

LEGEND

 TURBIDITY CURTAIN

NOTE(S)/SEQUENCE:
 1. ABCD
 2. ABCD
 3. ABCD

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DATE	SUBMISSIONS / REVISIONS

PROJECT TITLE: **HHFT - BREAKNECK CROSSING BRIDGE**

LOCATED AT
 HUDSON RIVER
 ROCKLAND COUNTY

PREPARED FOR
 HUDSON HIGHLANDS FJORD TRAIL, INC.

OWNER:
 1 CIVIC CENTER PLAZA, STE 200
 POUGHKEEPSIE, NY 12601
 TEL:
 FAX:

SHEET TITLE:
**STAGE IX -
 DEMOBILIZATION**

ISSUE DATE: 01.23.2023	PROJECT NO: 22065
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SCALE: AS NOTED	SHEET NO: 10 OF 10
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