

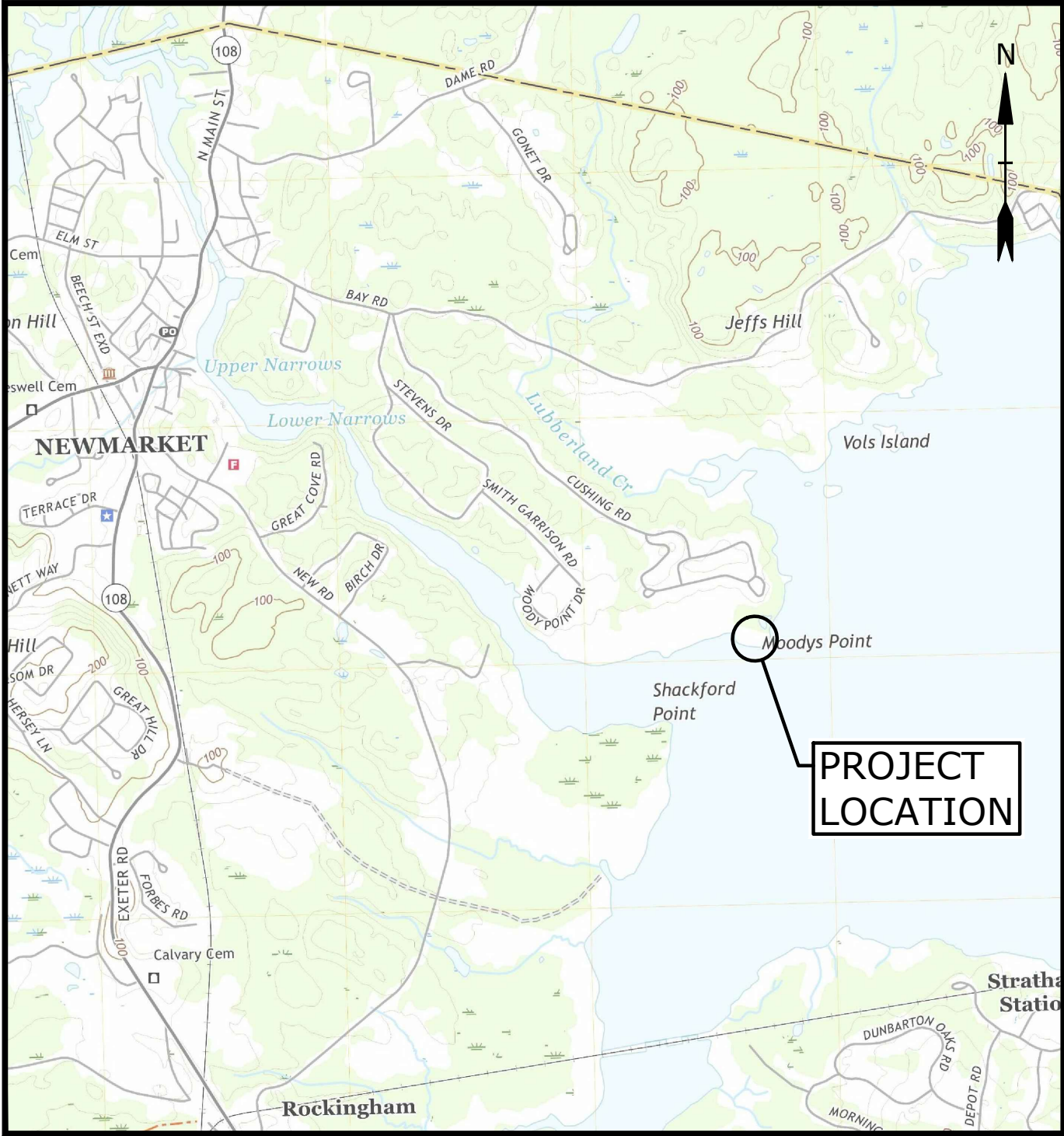
TOWN OF NEWMARKET, NH

MOODY POINT STABILIZATION

& LIVING SHORELINE PROJECT

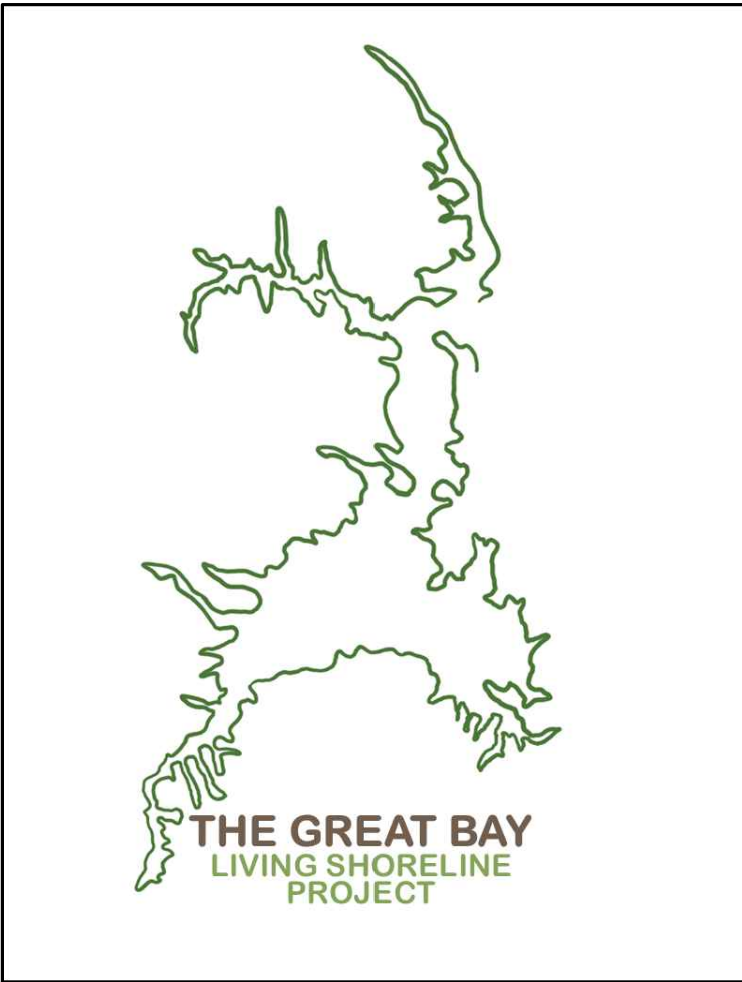
APRIL 5, 2022

LIST OF DRAWINGS			
SHEET NO.	DRAWING NO.	DRAWING TITLE	LAST REVISED
1	-	COVER SHEET	03.30.2022
2	C-100	PROJECT VICINITY PLAN	03.27.2022
3	C-101	EXISTING CONDITIONS PLAN	03.30.2022
4	C-102	PROPOSED CONDITIONS PLAN	03.30.2022
5	C-201	DETAILS SHEET	02.09.2022
6	C-202	DETAILS SHEET	02.09.2022
7	C-301	EXISTING CROSS SECTIONS	03.30.2022
8	C-302	EXISTING CROSS SECTIONS	03.30.2022
9	C-303	PROPOSED CROSS SECTIONS	03.30.2022
10	C-304	PROPOSED CROSS SECTIONS	03.30.2022
11	C-401	MARSH REGRESSION EXHIBIT	03.30.2022
12	C-006	PLANTING AND UPLAND LANDSCAPE PLAN	03.29.2022



LOCATION MAP
SCALE: 1" = 2000'

PREPARED BY:
Troy Barry



PREPARED FOR:
THE GREAT BAY LIVING SHORELINE PROJECT:
NH COASTAL PROGRAM
UNIVERSITY OF NEW HAMPSHIRE
GREAT BAY NATIONAL ESTUARINE RESEARCH RESERVE
NATIONAL FISH AND WILDLIFE FOUNDATION
PISCATAQUA REGION ESTUARIES PARTNERSHIP

CONCEPTUAL DRAWINGS
NOT FOR CONSTRUCTION

COMPLETE SET 12 SHEETS

Last Saved: 4/4/2022 2:20pm By: TBarry
Plotted On: Apr 05, 2022 2:20pm By: TBarry
File & Send To: References Coastal Living Shoreline\GreatBay, Newmarket, NH\CAD\Sheet\Moody Point-C-DSGN_TB.dwg



TIDAL ELEVATIONS TABLE:	
MEAN HIGHER HIGH WATER (MHHW)	3.9'±
MEAN HIGH WATER (MHW)	3.6'±
MEAN LOW WATER (MLW)	-2.8'±
MEAN LOWER LOW WATER (MLLW)	-2.9'±
*ALL ELEVATIONS ARE NAVD88	
SLR 1.6'	
BASED ON NH CFR RCP4.5, MED RISK FLOOD	
TOLERANCE, FORECAST YEAR 2050	

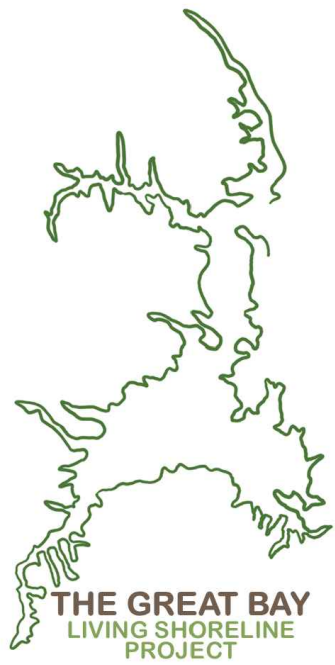
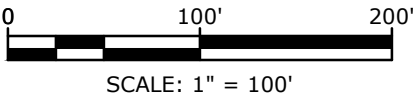
EXISTING 100-YR
FLOOD ELEVATION
(ELEV.=6.3±)

EXISTING
PERCHED
COASTAL
WETLAND

EXISTING MEAN HIGHER
HIGH WATER (MHHW)
ELEVATION (ELEV.=3.9±)

EXISTING MEAN HIGH
WATER (MHW) ELEVATION
(ELEV.=3.6±)

LOCATION OF STABILIZATION
AND LIVING SHORELINE PROJECT
(SEE SHEETS C-101 & C-102)



THE GREAT BAY
LIVING SHORELINE PROJECT

CONCEPTUAL
DRAWING
NOT FOR CONSTRUCTION

Moody Point
Bank
Stabilization
and Living
Shoreline

Moody Point
Community
Association

Newmarket, NH

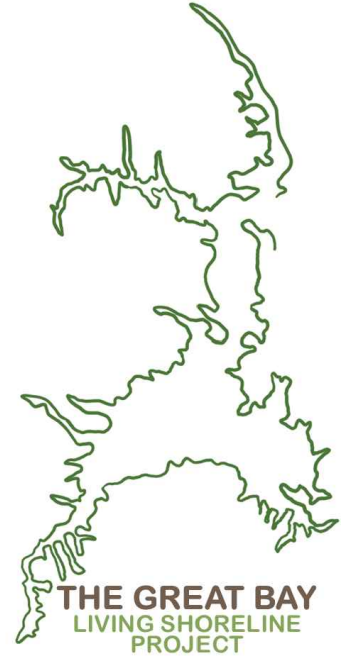
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DATE:		March 25, 2022
FILE:		MOODY POINT-C-DSGN_TB.DWG
DRAWN BY:		NSC/CED
DESIGNED/CHECKED BY:		TROY BARRY
APPROVED BY:		XXX

PROJECT VICINITY PLAN

SCALE: AS SHOWN

C-100

Last Saved: 4/5/2022 11:05:00 AM
Printed On: Apr 05, 2022 3:41 PM
Title & Content: References Coastal Living Shoreline
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THE GREAT BAY
LIVING SHORELINE PROJECT

CONCEPTUAL
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Moody Point
Bank
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Shoreline

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Association

Newmarket, NH

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DRAWN BY:	NSC/CED	
DESIGNED/CHECKED BY:	TROY BARRY	
APPROVED BY:	XXX	

EXISTING CONDITIONS
PLAN

SCALE: AS SHOWN



THE GREAT BAY
LIVING SHORELINE PROJECT

CONCEPTUAL DRAWING

NOT FOR CONSTRUCTION

Moody Point Bank Stabilization and Living Shoreline

Moody Point
Community
Association

Newmarket, NH

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PROJECT NO:		N5000-000
DATE:	March 25, 2022	
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DRAWN BY:	NSC/CED	
DESIGNED/CHECKED BY:	TROY BARRY	
APPROVED BY:	XXX	

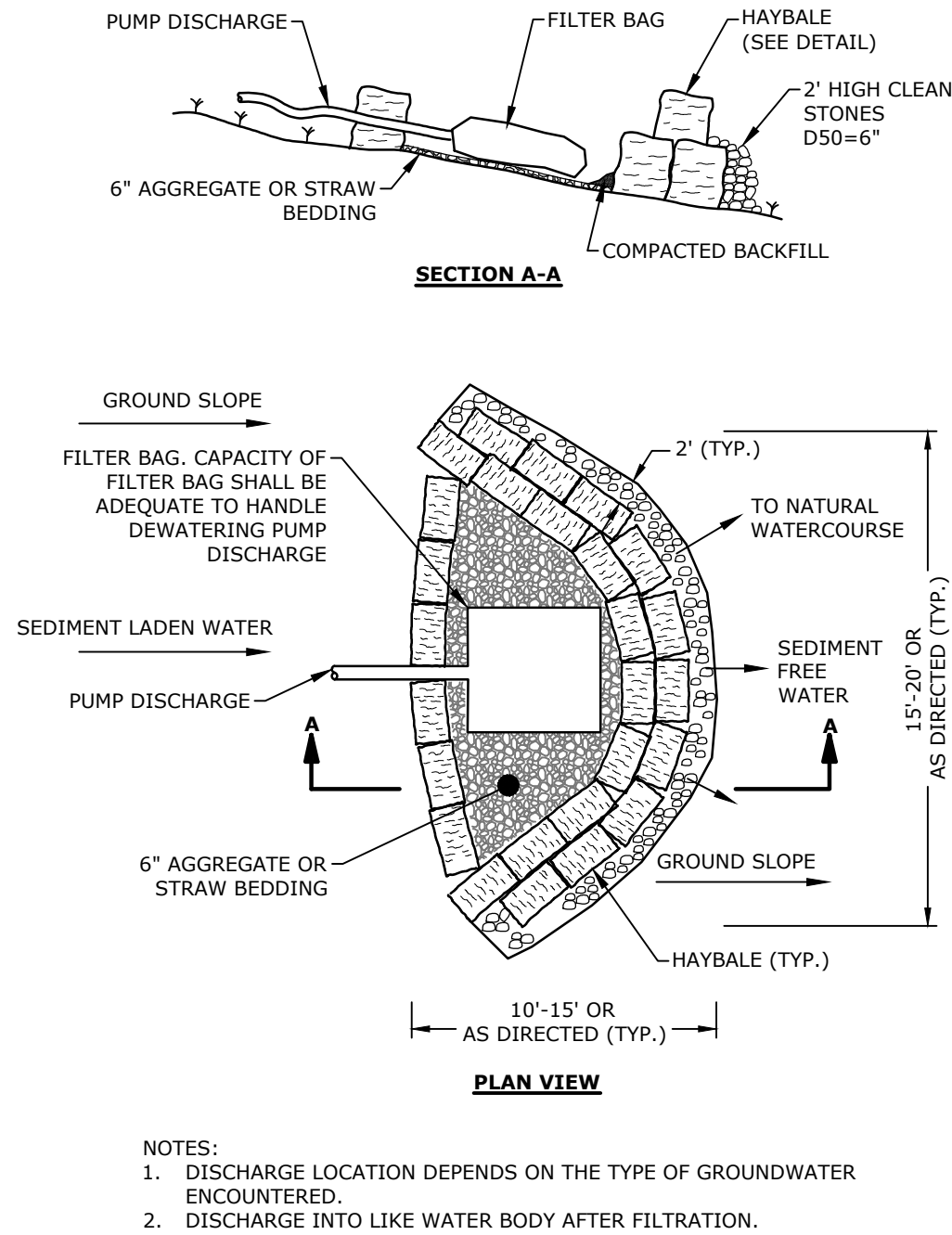
PROPOSED CONDITIONS PLAN

SCALE: AS SHOWN

C-102

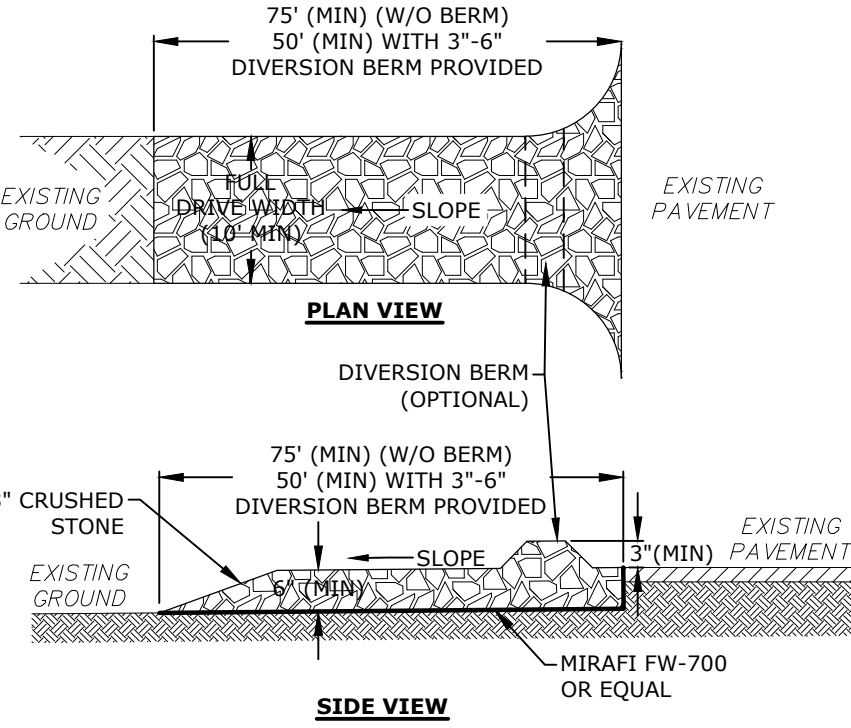
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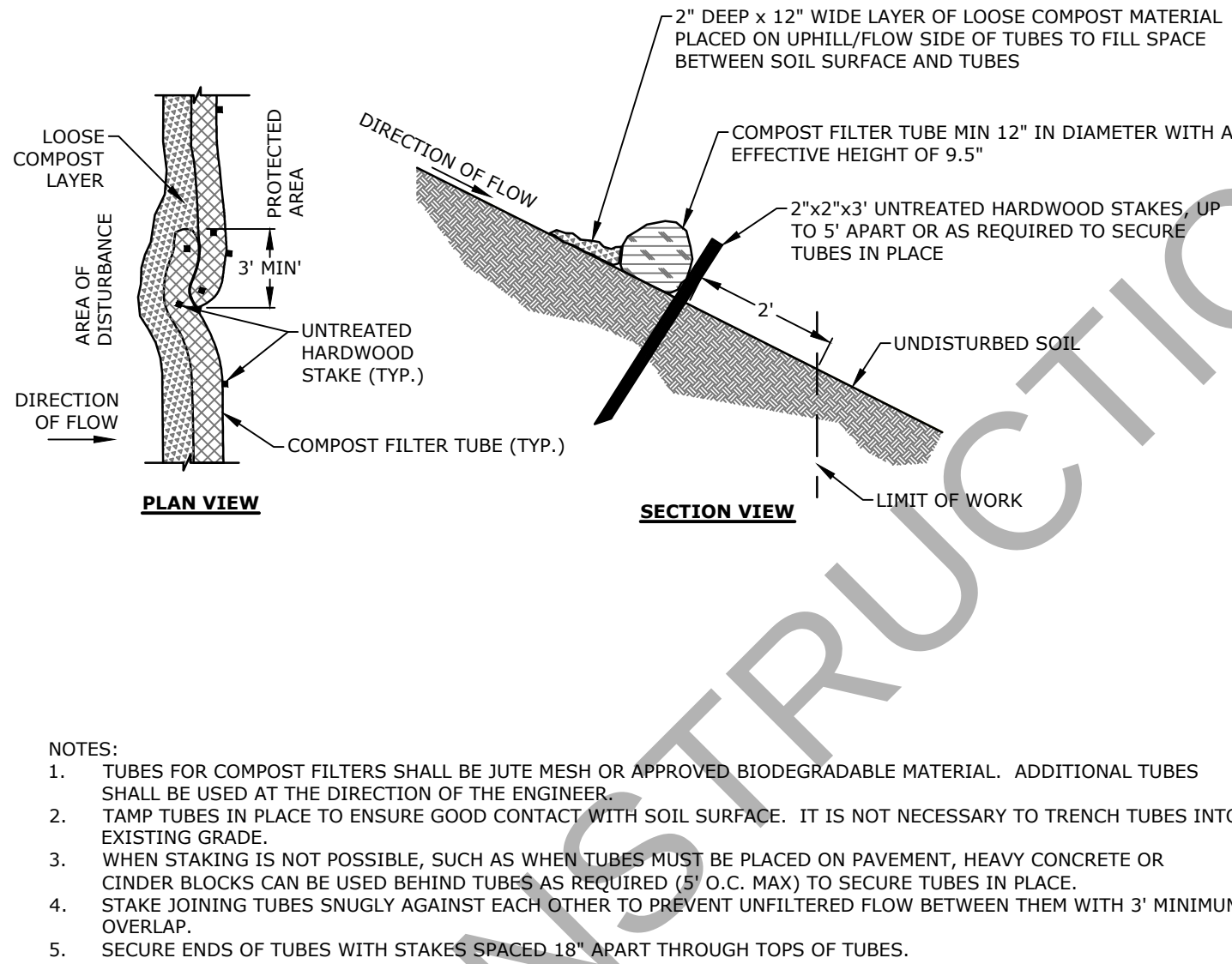
DEWATERING BASIN
NO SCALE

1
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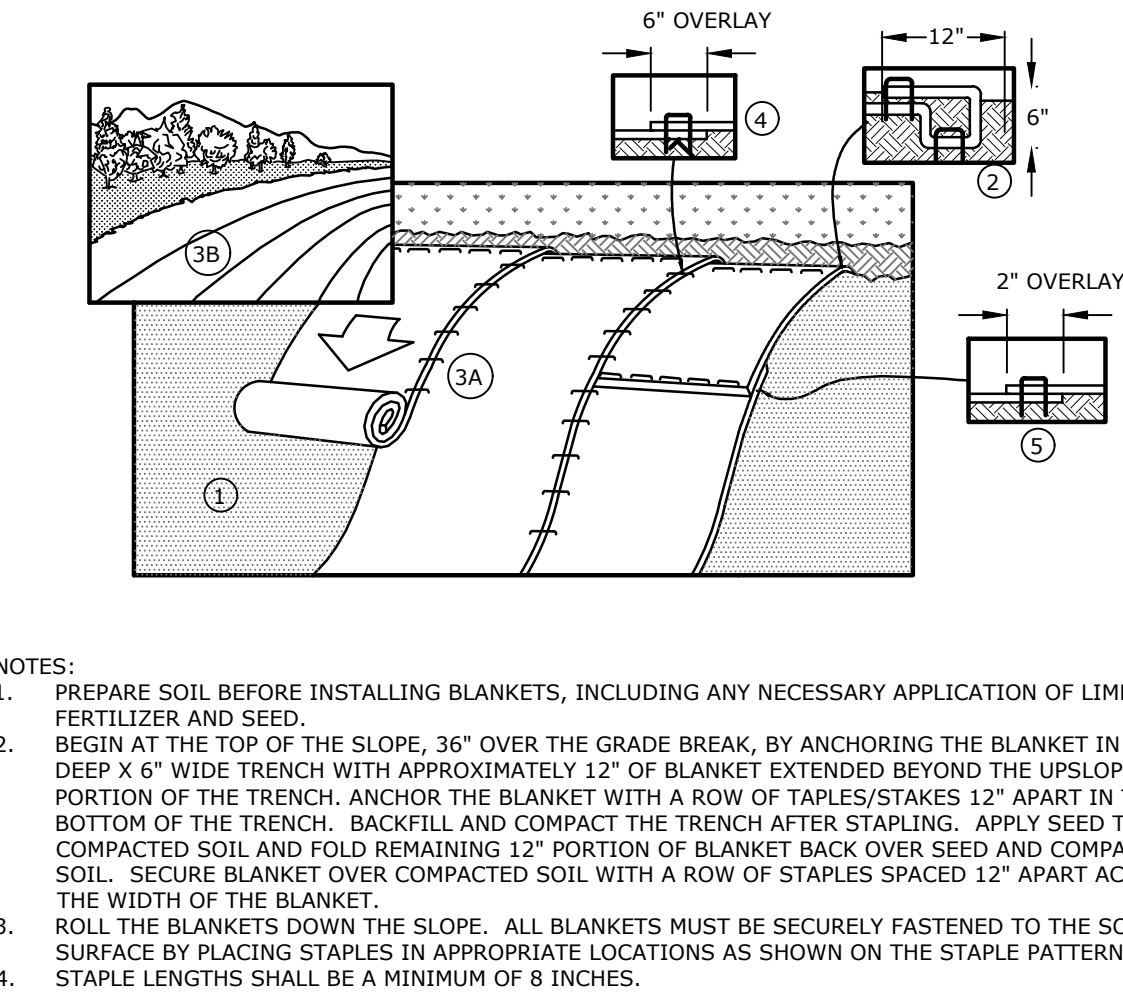
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4
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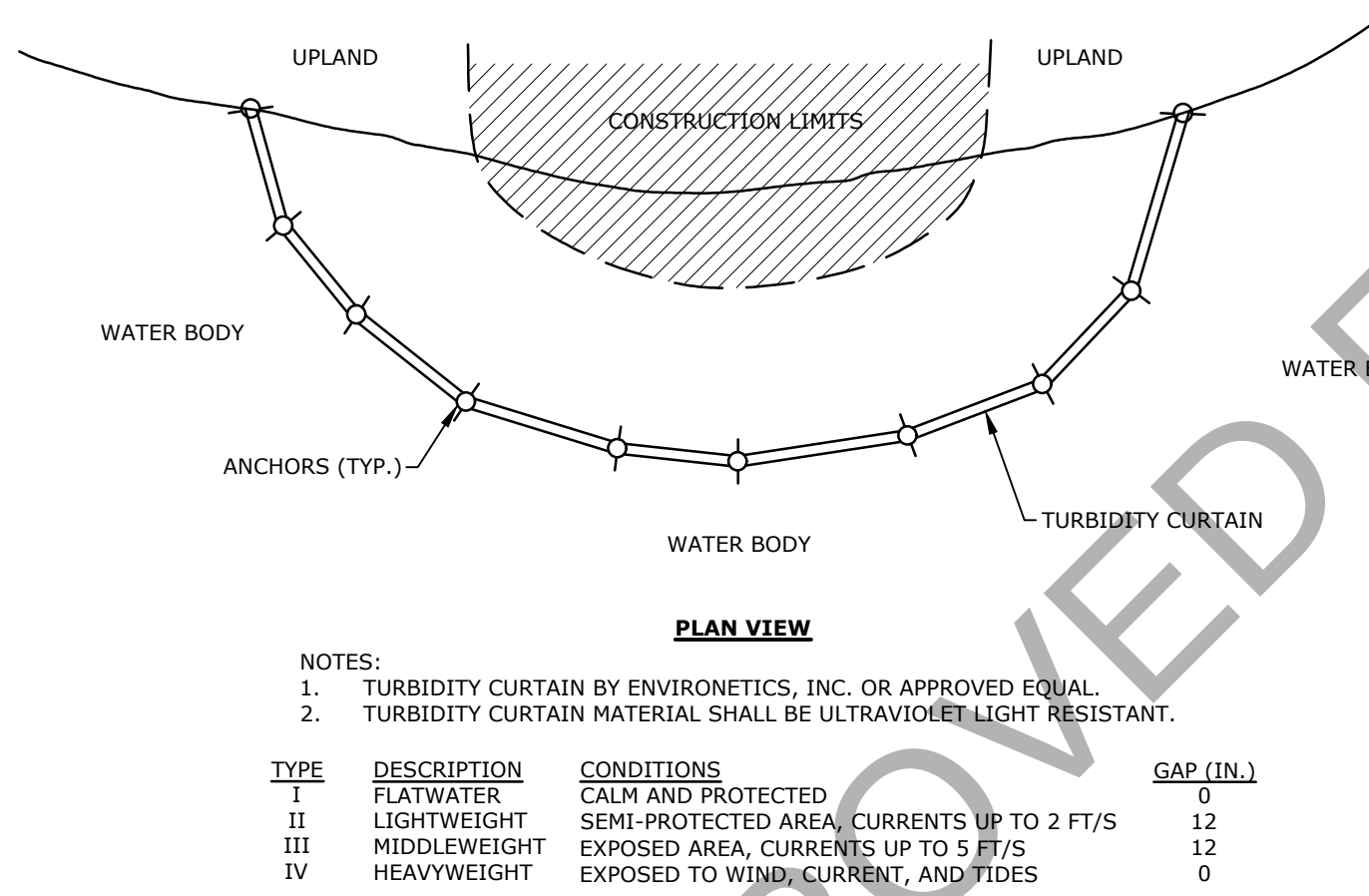
COMPOSITE FILTER TUBE
NO SCALE

5
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STABILIZATION BLANKET
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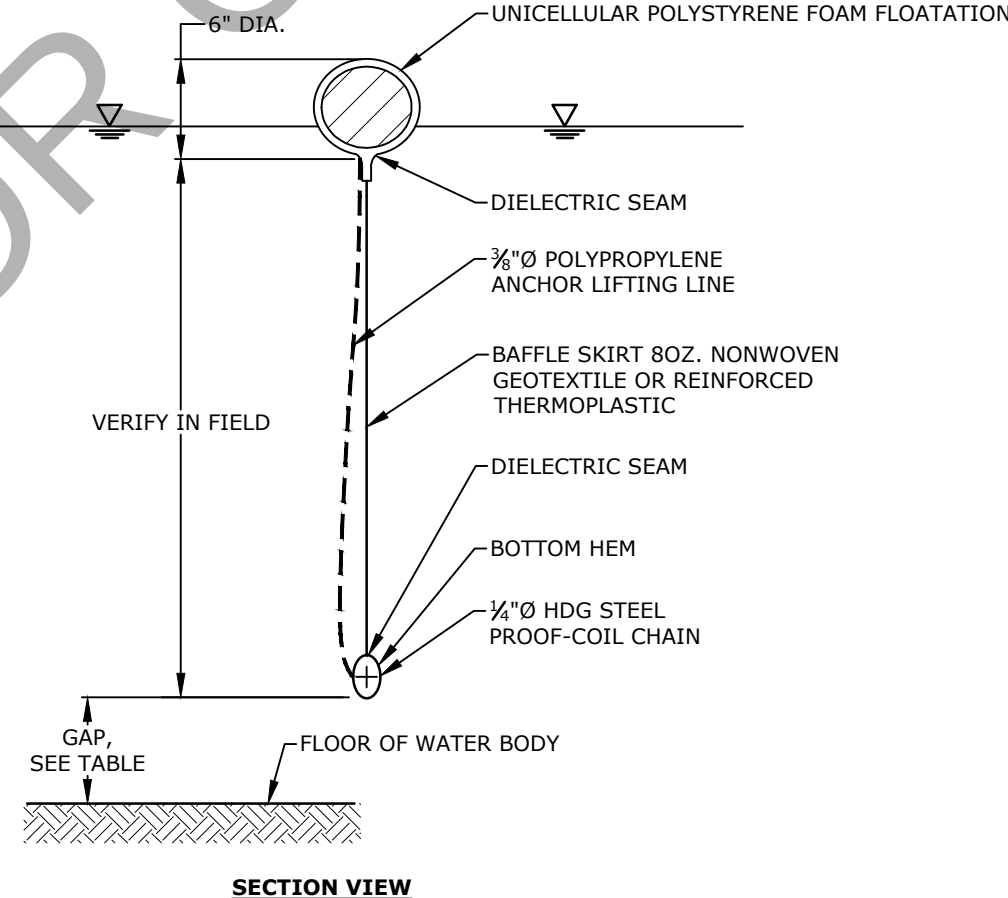
2
-



TYPE	DESCRIPTION	CONDITIONS	GAP (IN.)
I	FLATWATER	CALM AND PROTECTED	0
II	LIGHTWEIGHT	SEMI-PROTECTED AREA, CURRENTS UP TO 2 FT/S	12
III	MIDDLEWEIGHT	EXPOSED AREA, CURRENTS UP TO 5 FT/S	12
IV	HEAVYWEIGHT	EXPOSED TO WIND, CURRENT, AND TIDES	0

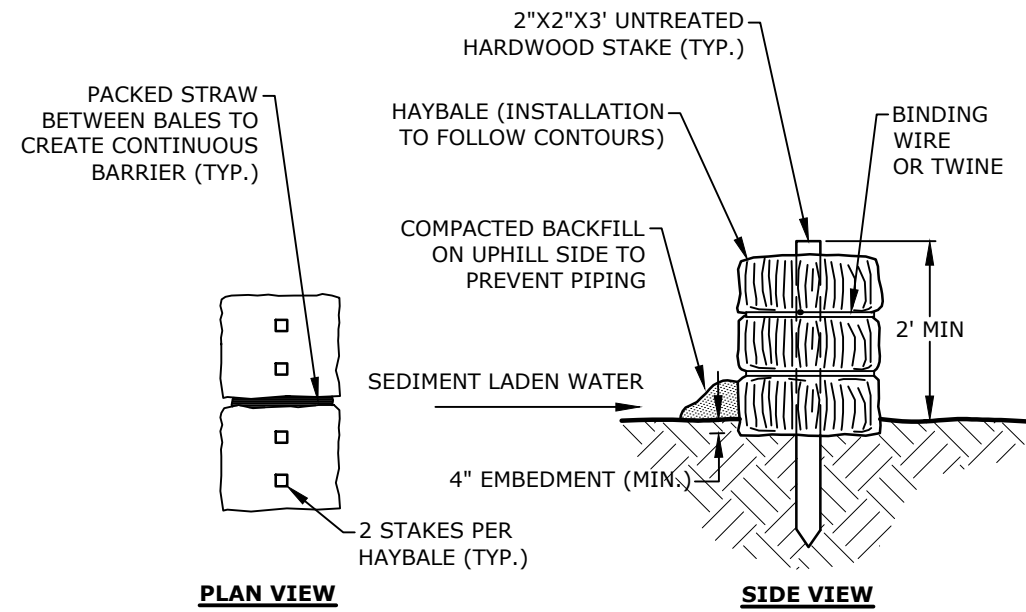
TURBIDITY CURTAIN
NO SCALE

6
-



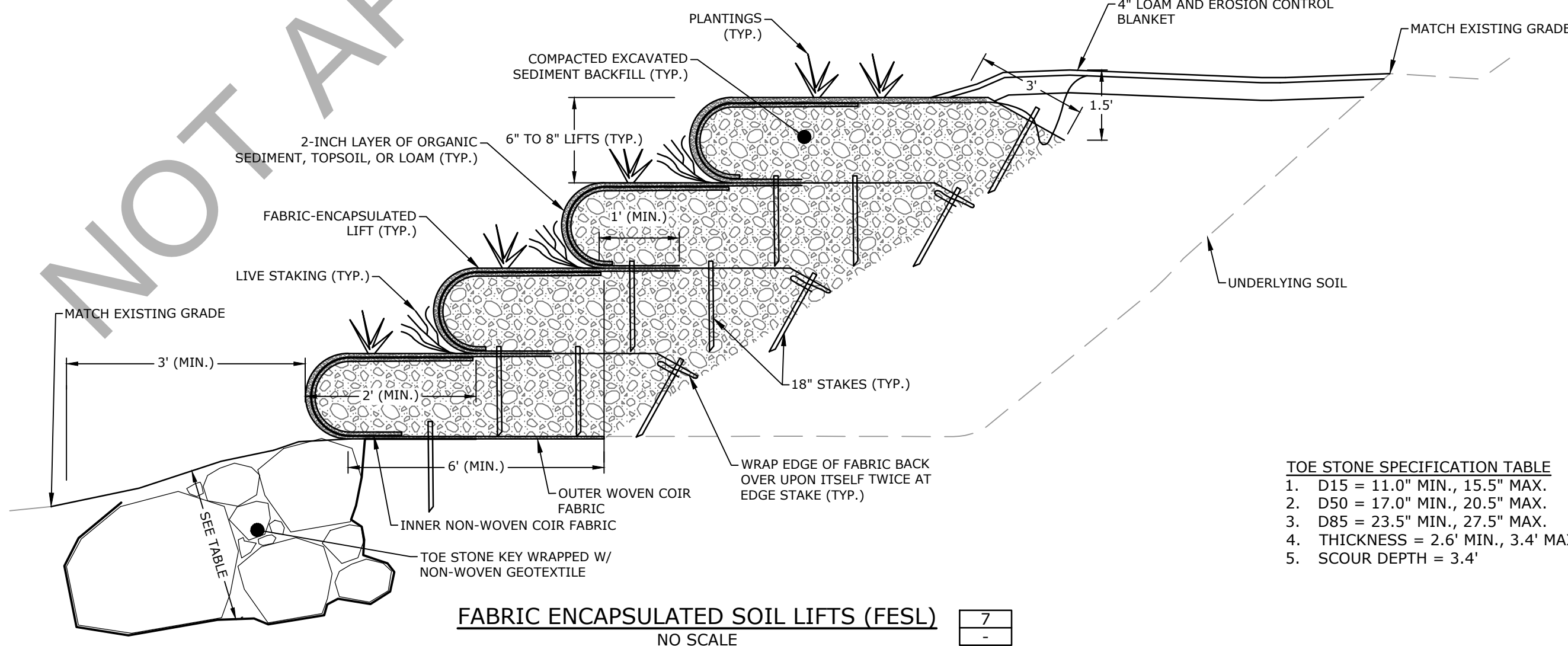
**BRUSH AGGRADATION BUNDLE
STRUCTURES (BABS)**
NO SCALE

8
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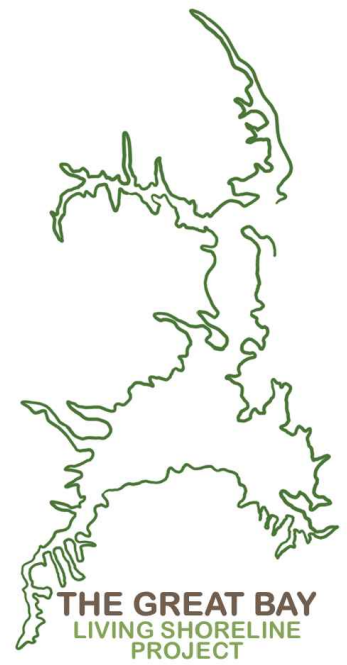
HAYBALE BARRIER
NO SCALE

3
-



FABRIC ENCAPSULATED SOIL LIFTS (FESL)
NO SCALE

7
-



**THE GREAT BAY
LIVING SHORELINE PROJECT**

**CONCEPTUAL
DRAWING
NOT FOR CONSTRUCTION**

**Moody Point
Bank
Stabilization
and Living
Shoreline**

**Moody Point
Community
Association**

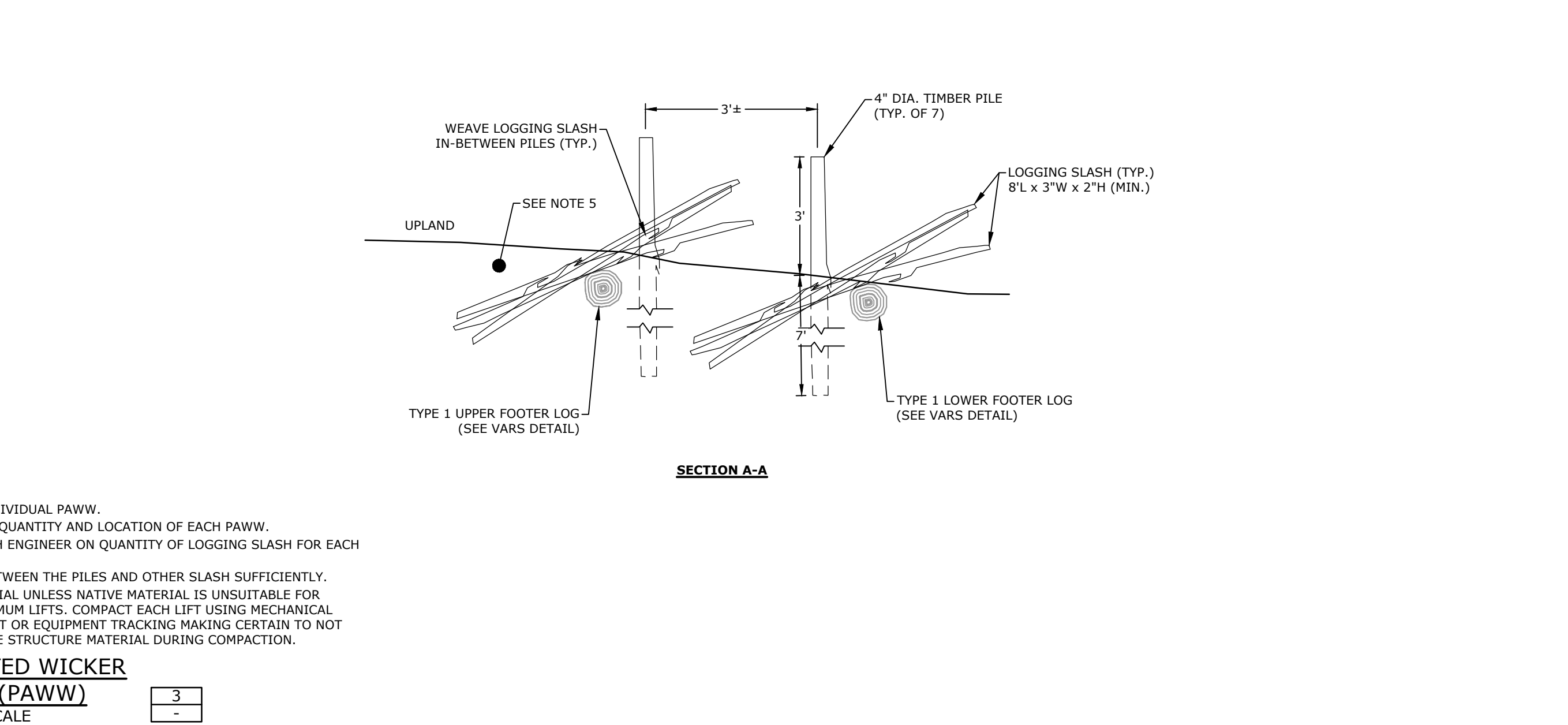
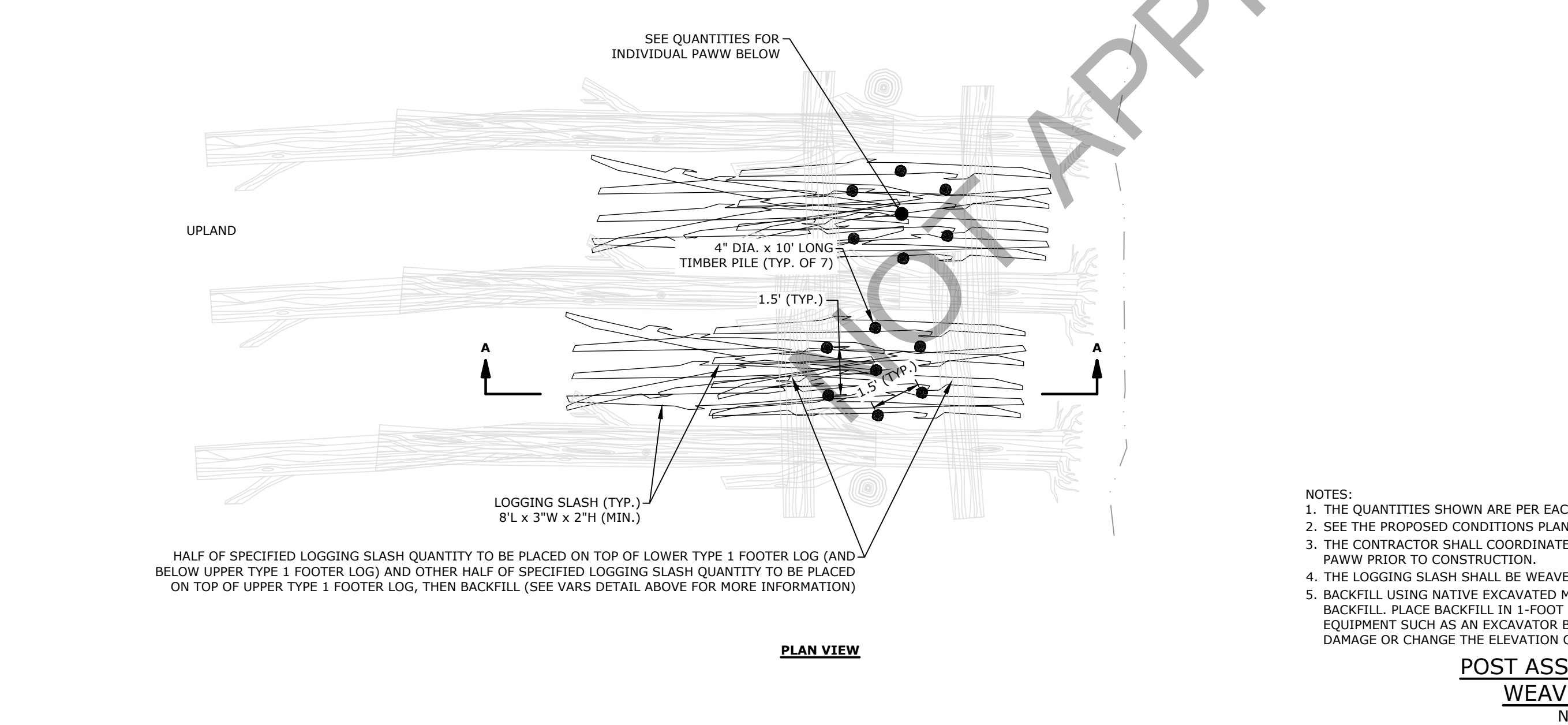
Newmarket, NH

MARK	DATE	DESCRIPTION
PROJECT NO:	N5000-000	
DATE:	March 25, 2022	
FILE:	MOODY POINT-C-DTLS.DWG	
DRAWN BY:	NSC/CED	
DESIGNED/CHECKED BY:	TROY BARRY	
APPROVED BY:	XXX	

DETAILS SHEET

SCALE: AS SHOWN

C-201



**CONCEPTUAL
DRAWING**
NOT FOR CONSTRUCTION

Moody Point Bank Stabilization and Living Shoreline

Moody Point
Community
Association

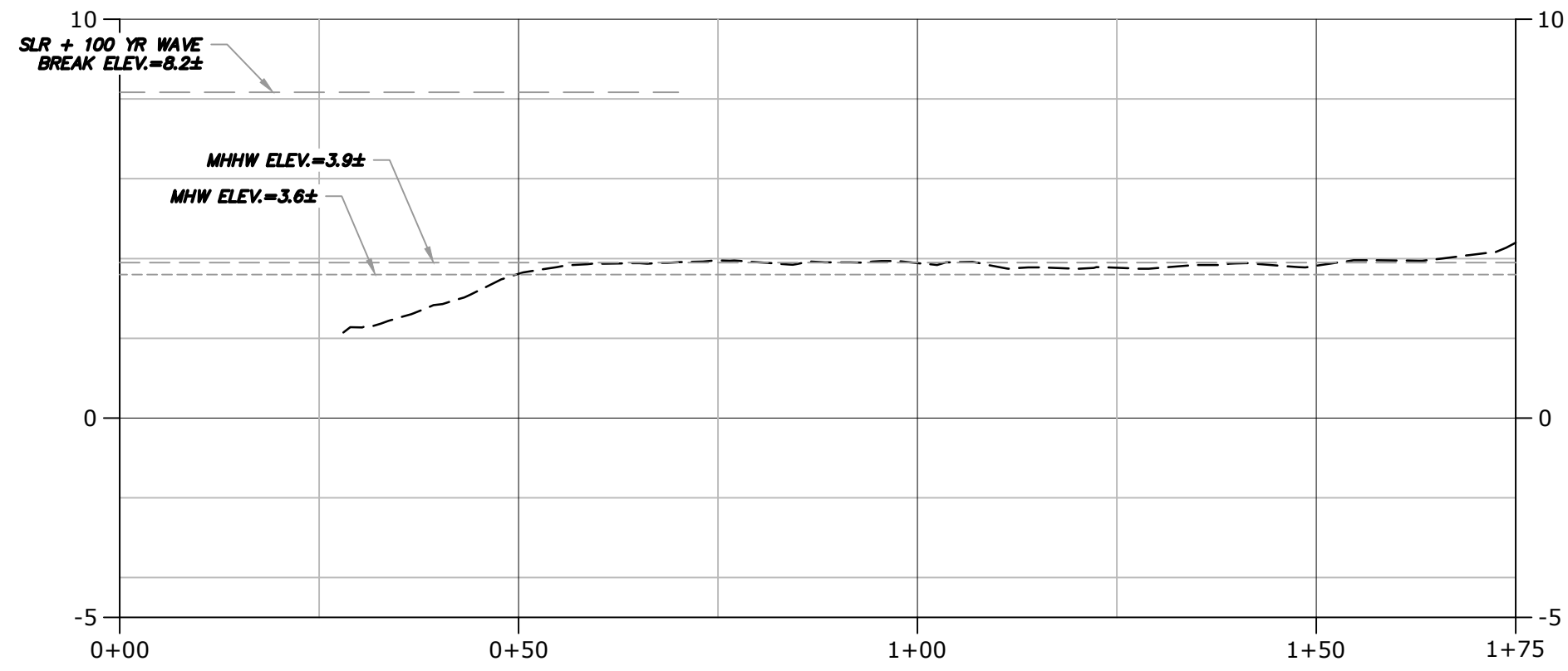
Newmarket, NH

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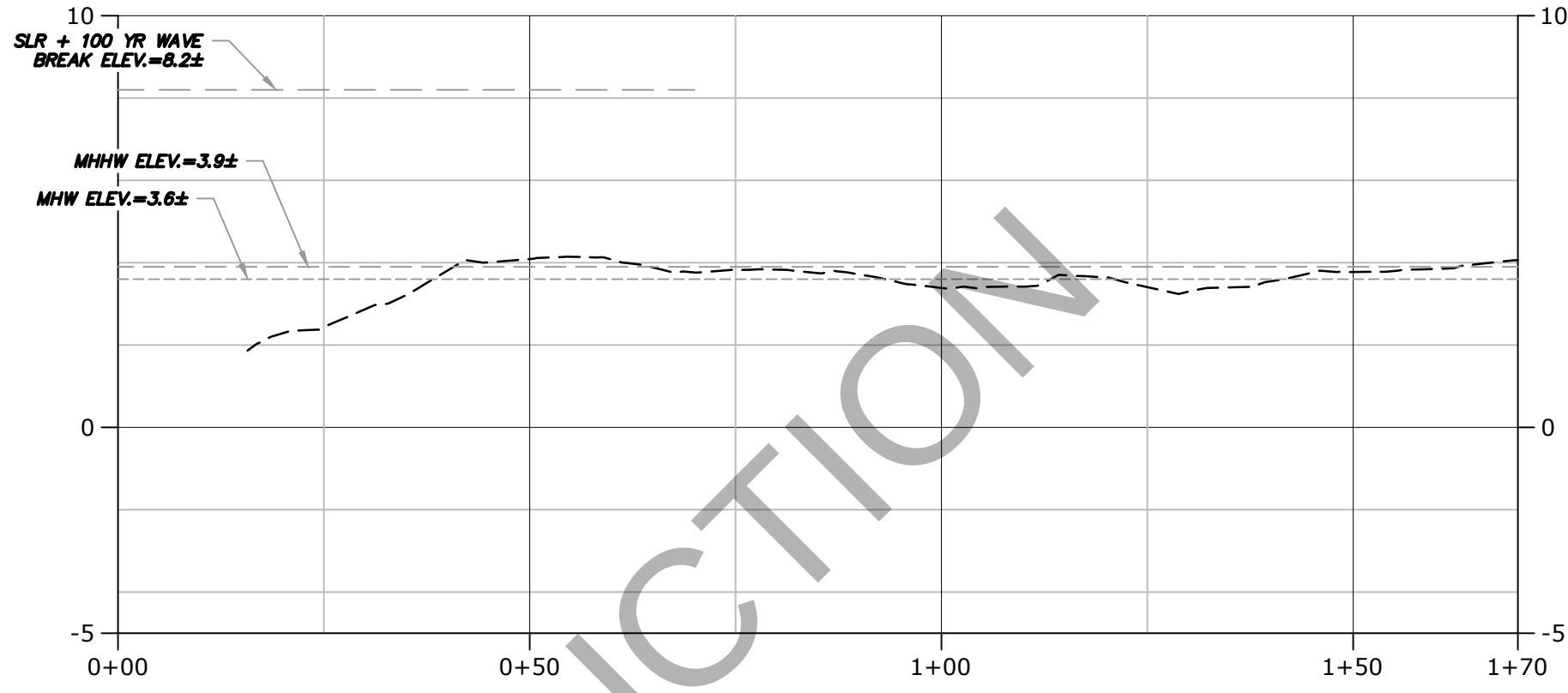
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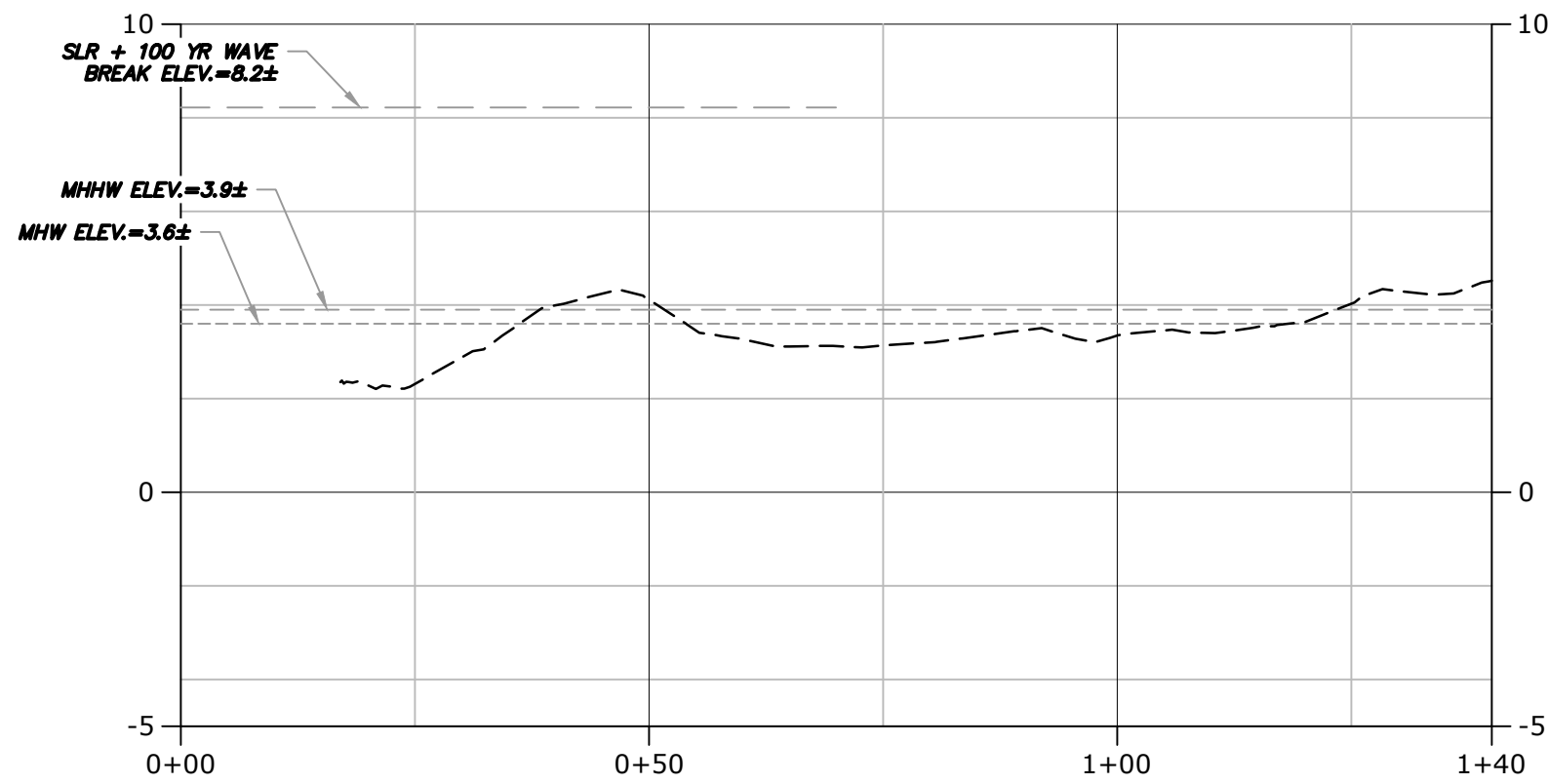
C-202



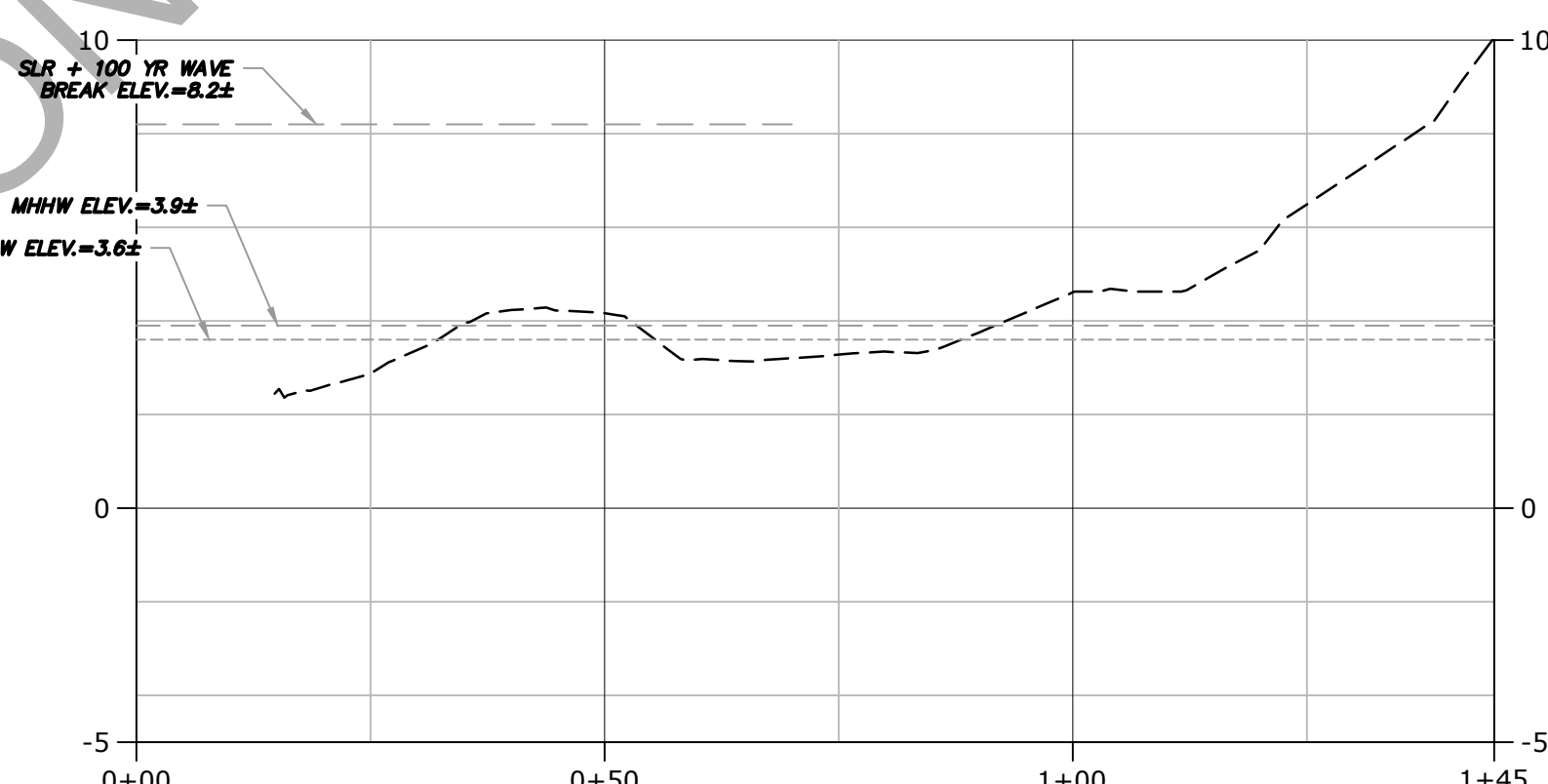
XSEC1 - STA: 0+00 TO 1+75



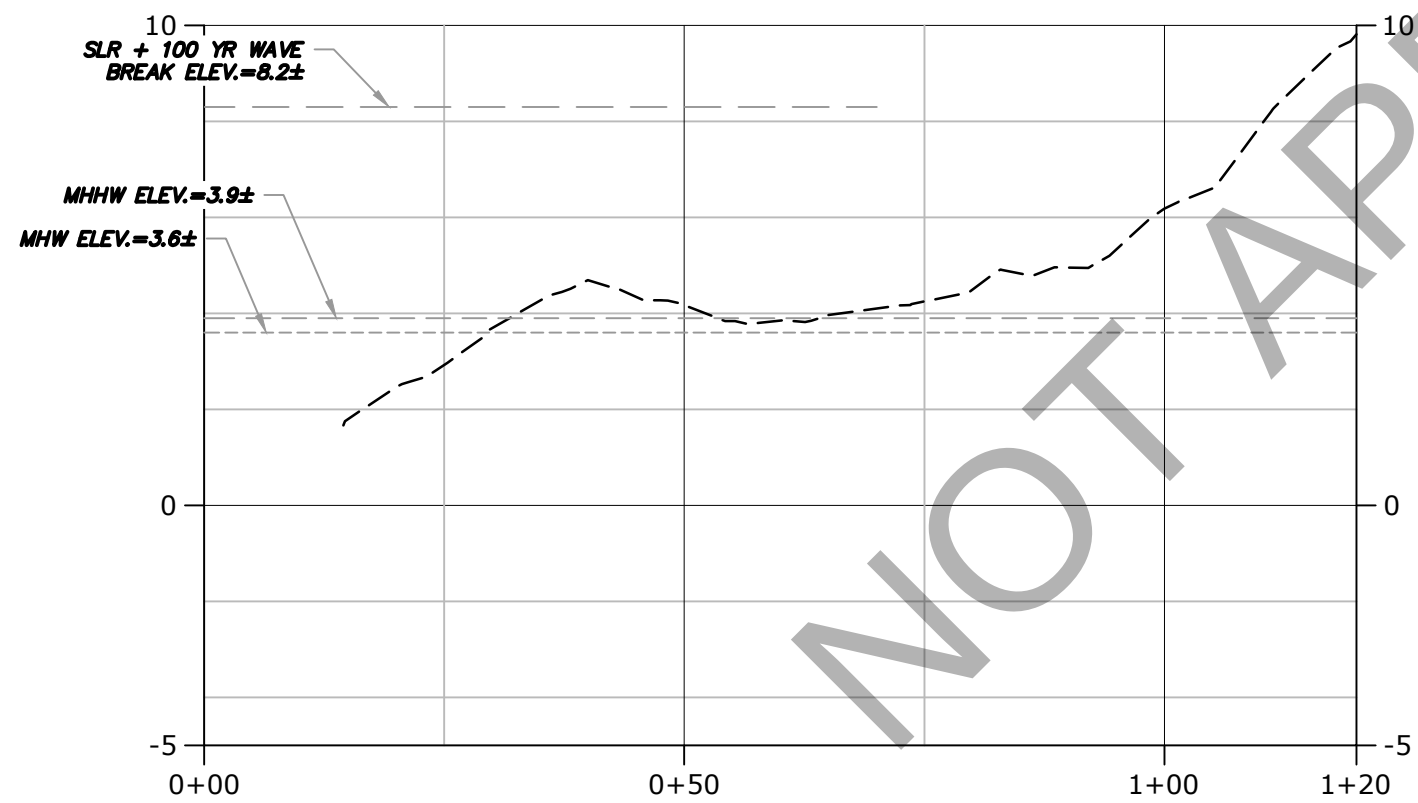
XSEC2 - STA: 0+00 TO 1+70



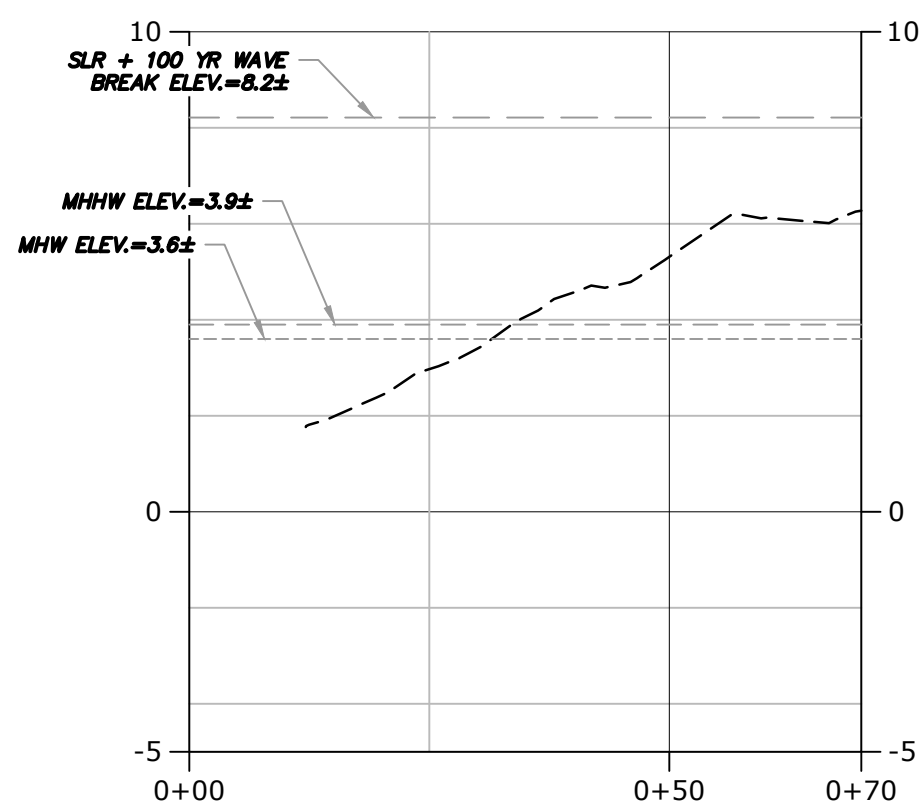
XSEC3 - STA: 0+00 TO 1+40



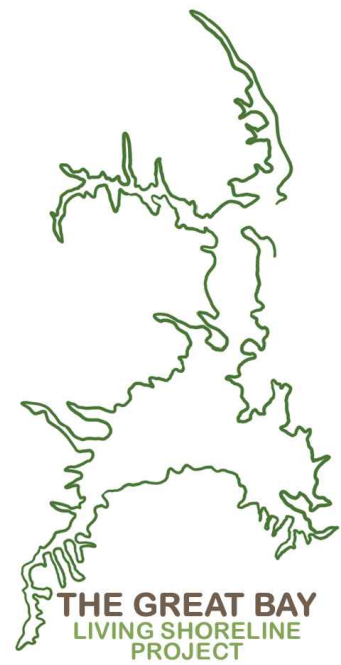
XSEC4 - STA: 0+00 TO 1+45



XSEC5 - STA: 0+00 TO 1+20



XSEC6 - STA: 0+00 TO 0+70



THE GREAT BAY
LIVING SHORELINE
PROJECT

CONCEPTUAL
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Bank
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Association

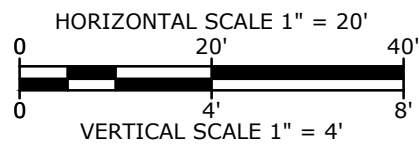
Newmarket, NH

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DATE:	March 25, 2022	
FILE:	MOODY POINT-C-DSGN_TB.DWG	
DRAWN BY:	NSC/CED	
DESIGNED/CHECKED BY:	TROY BARRY	
APPROVED BY:	XXX	

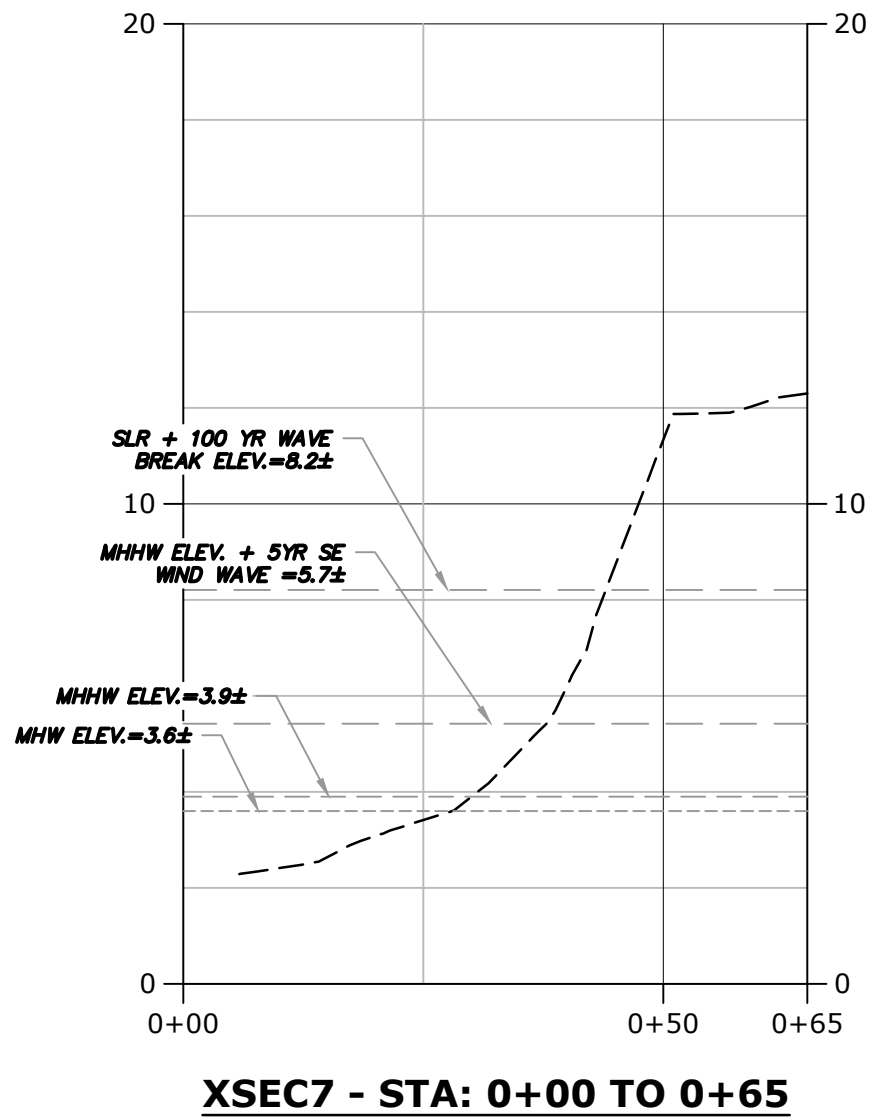
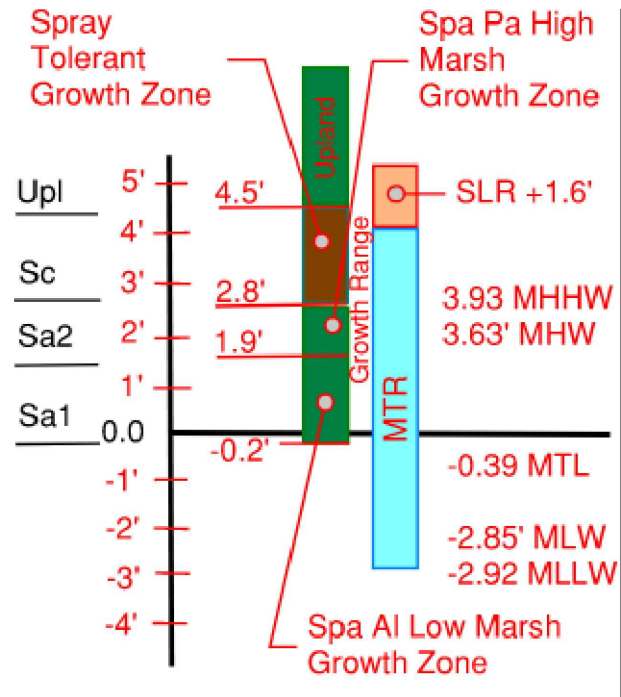
EXISTING CROSS
SECTIONS

SCALE: AS SHOWN

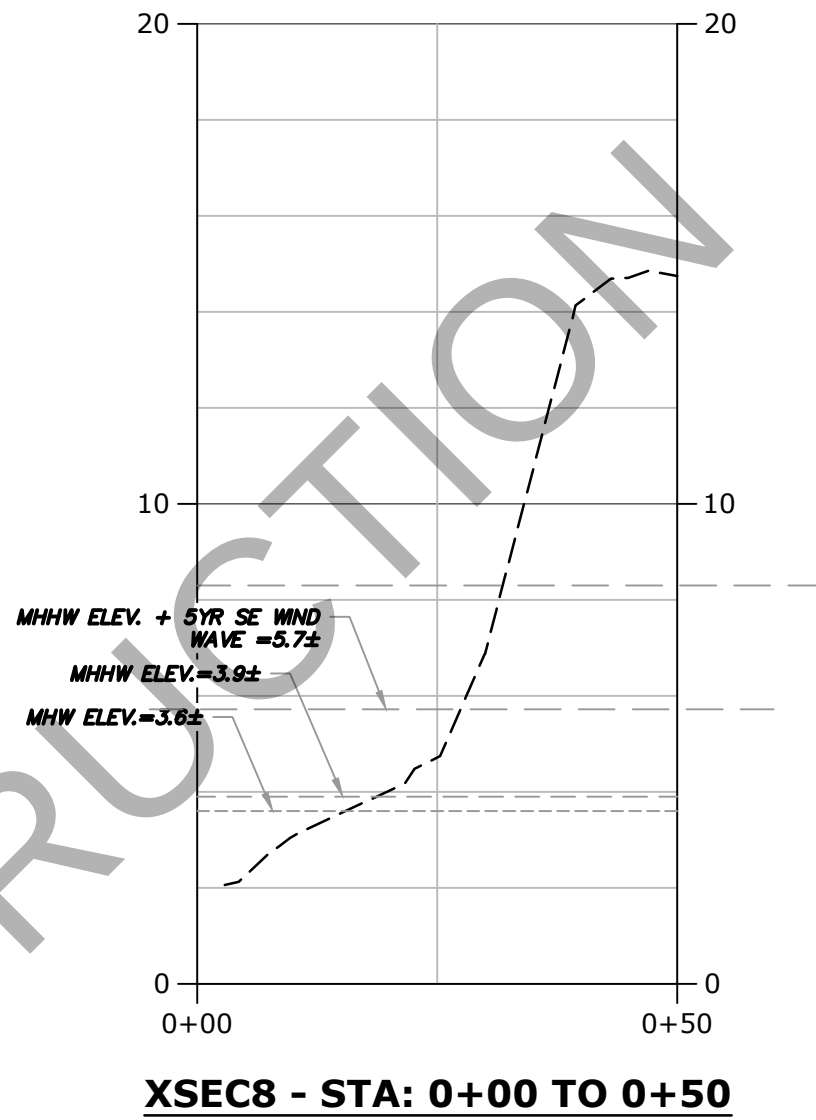
C-301



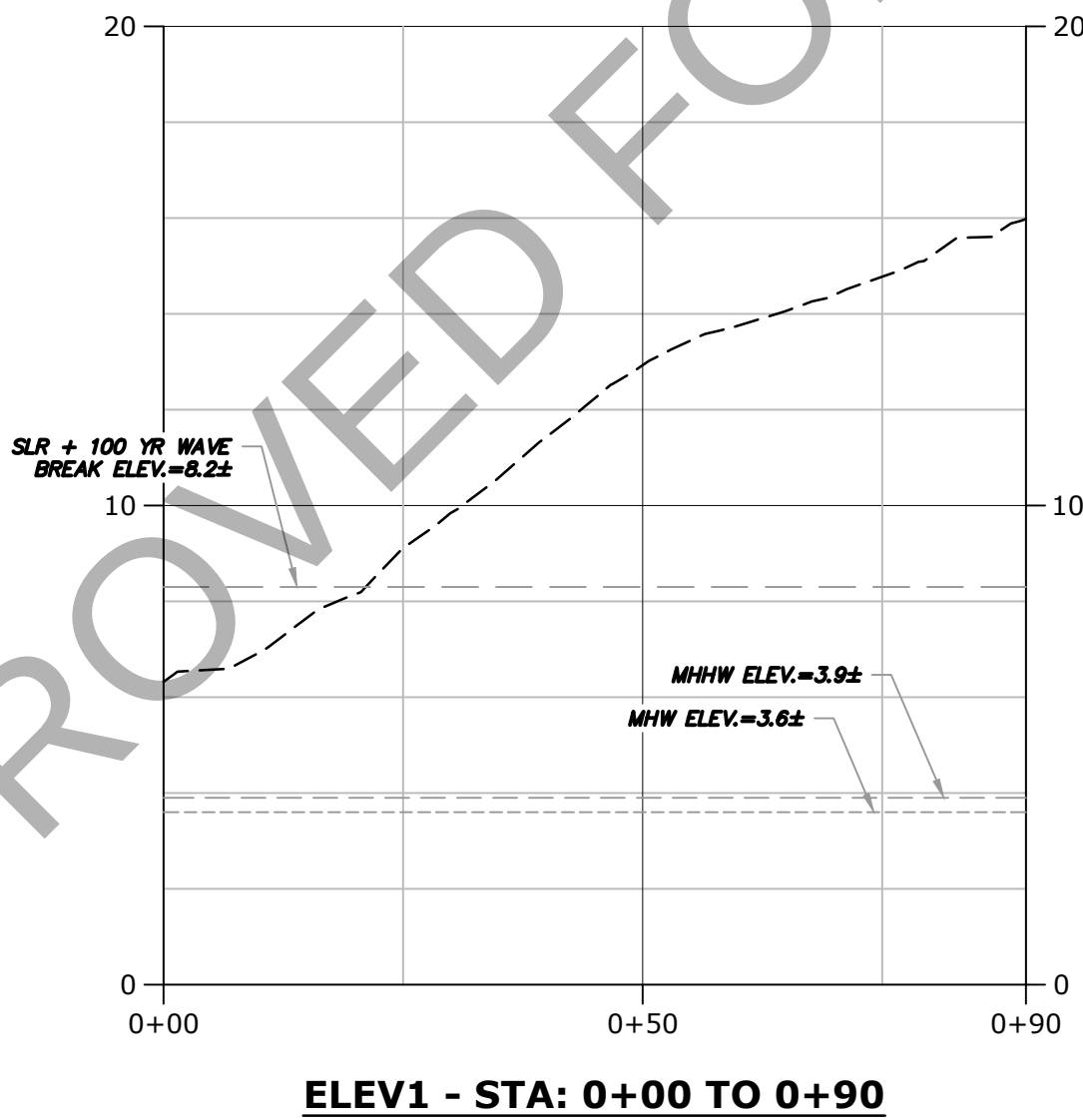
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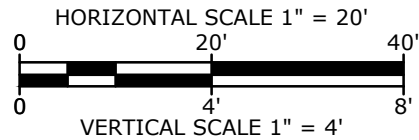
XSEC7 - STA: 0+00 TO 0+65



XSEC8 - STA: 0+00 TO 0+50



ELEV1 - STA: 0+00 TO 0+90



THE GREAT BAY
LIVING SHORELINE
PROJECT

CONCEPTUAL
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Moody Point Bank Stabilization and Living Shoreline

Moody Point
Community
Association

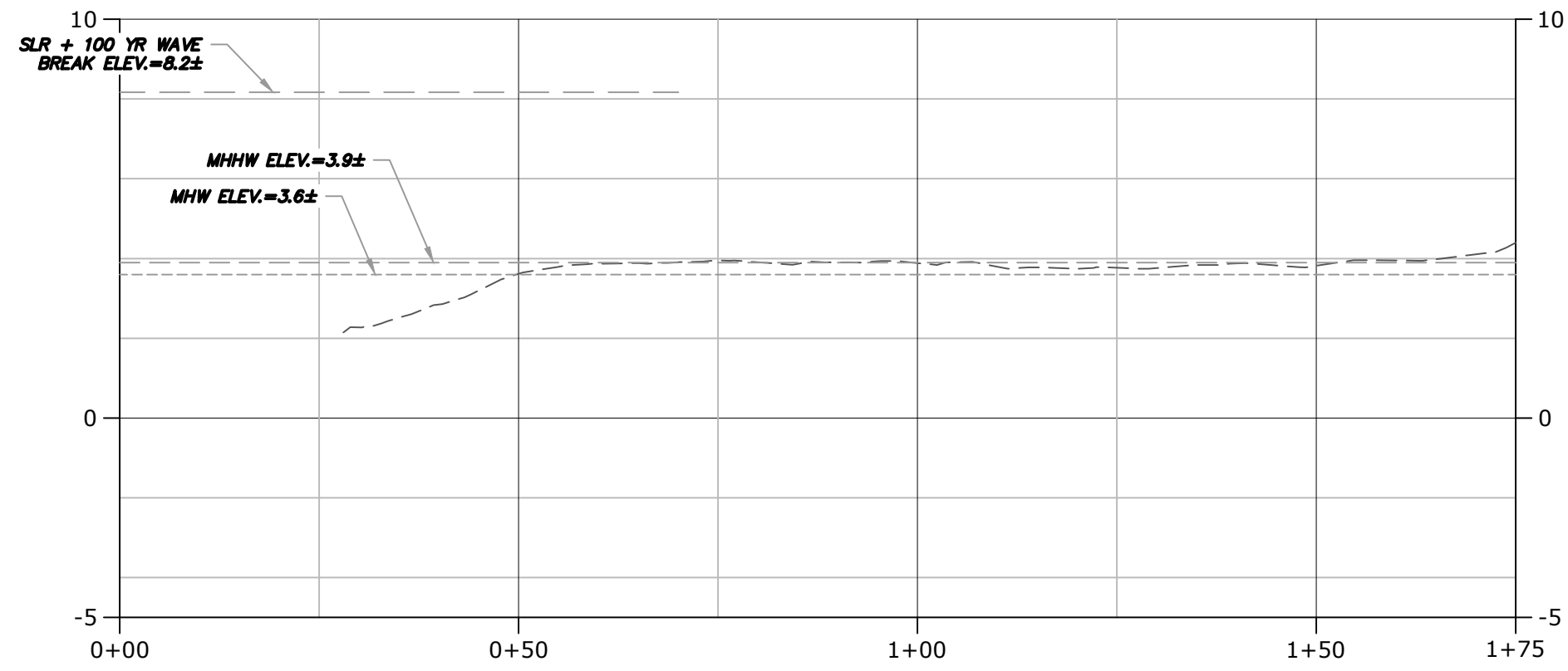
Newmarket, NH

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DATE:	March 25, 2022	
FILE:	MOODY POINT-C_DSGN_TB.DWG	
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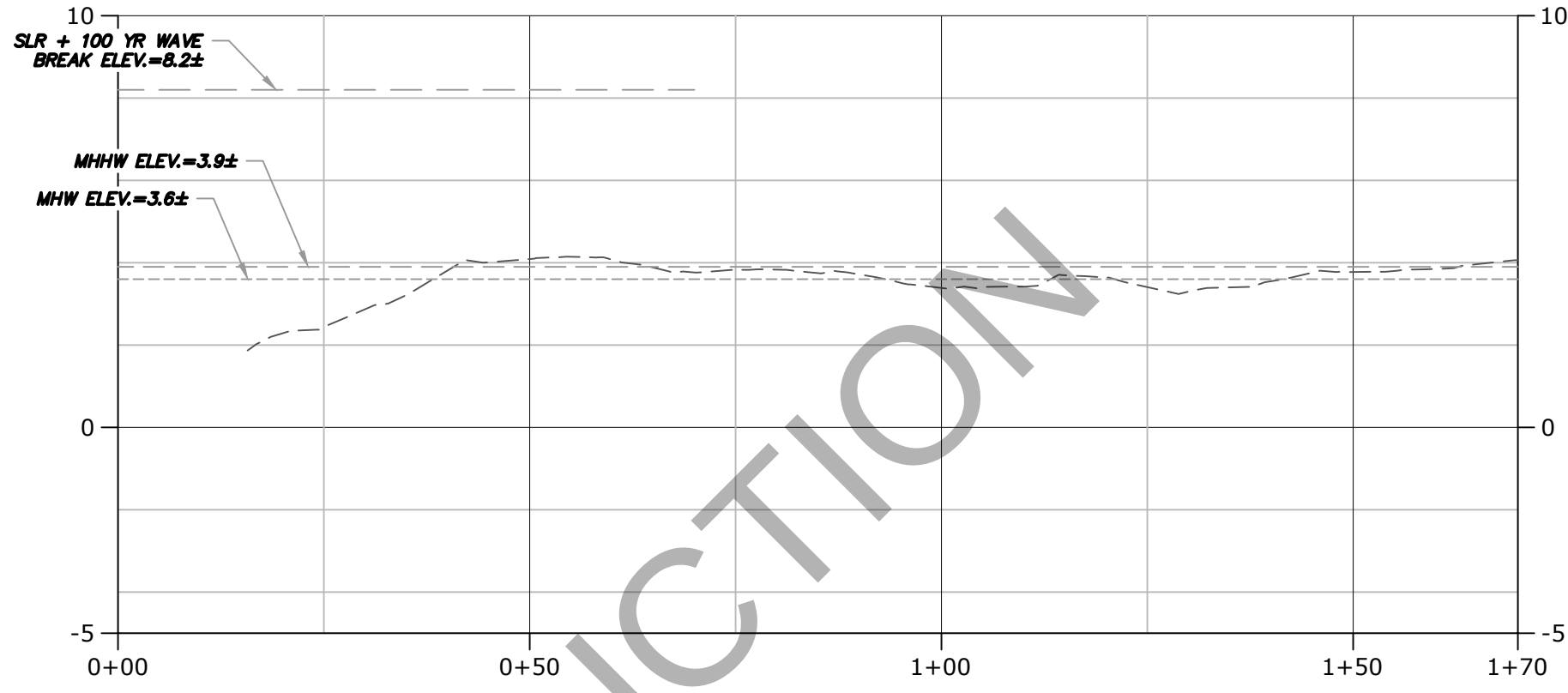
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SECTIONS

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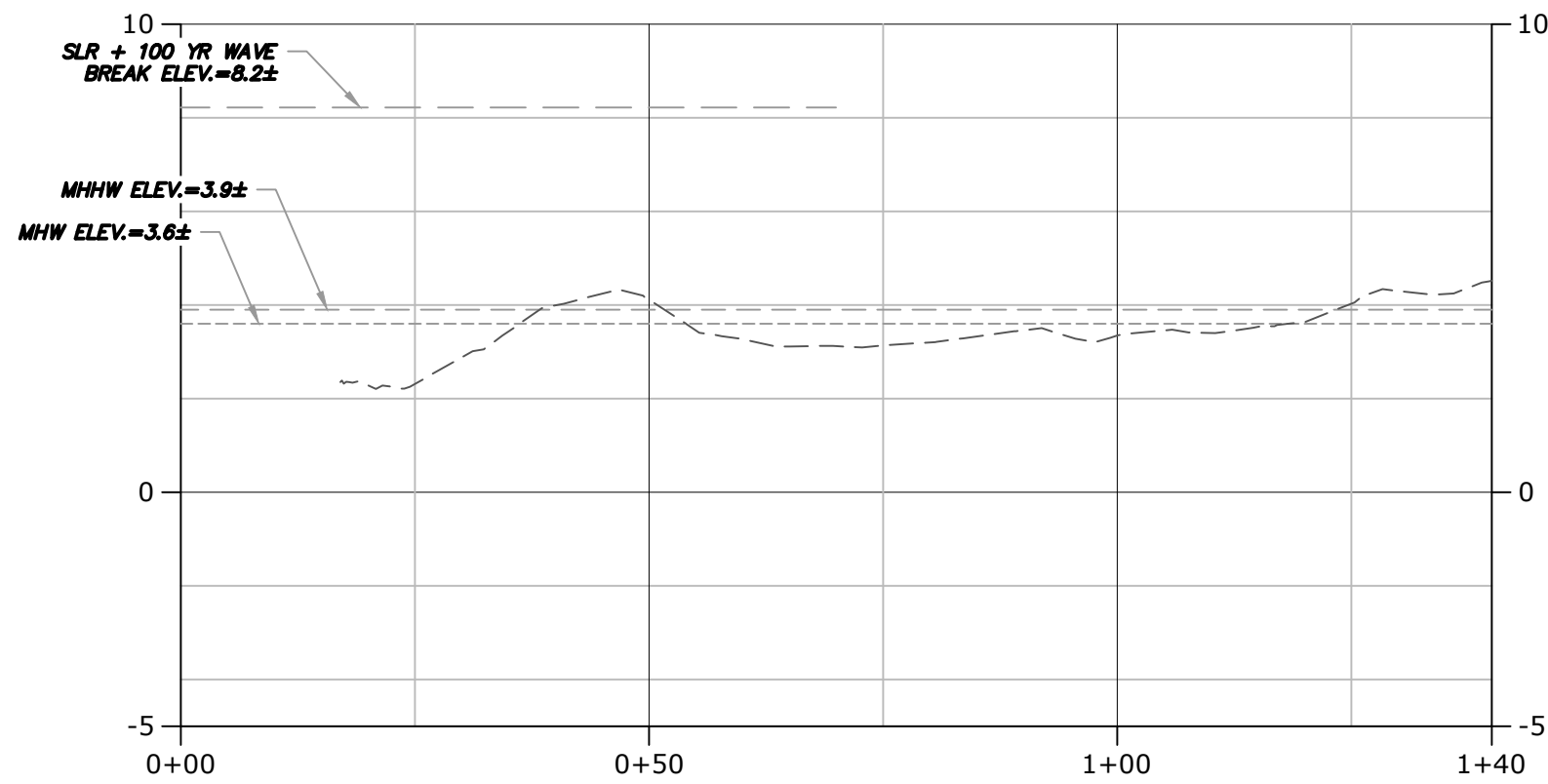
C-302



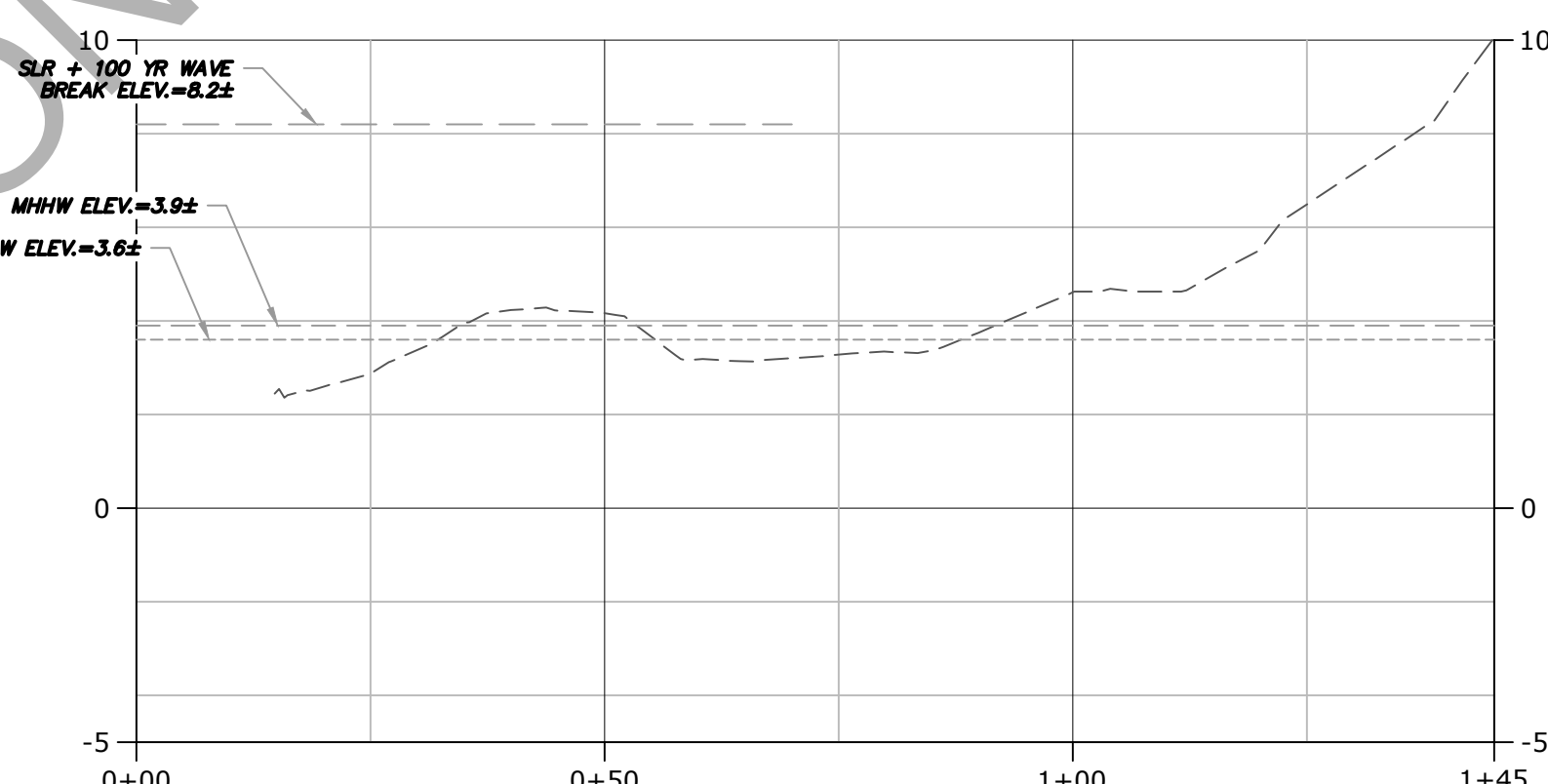
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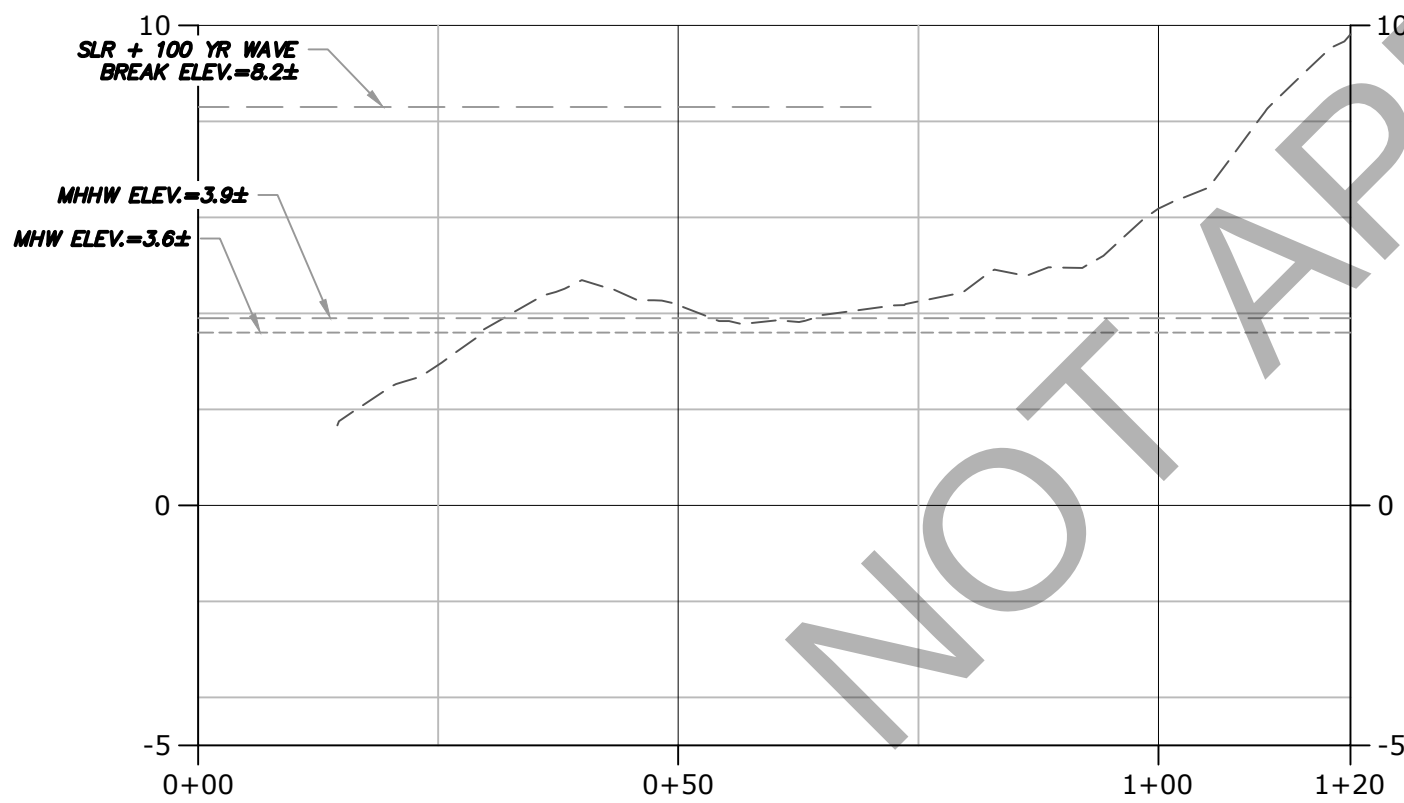
XSEC2 - STA: 0+00 TO 1+70



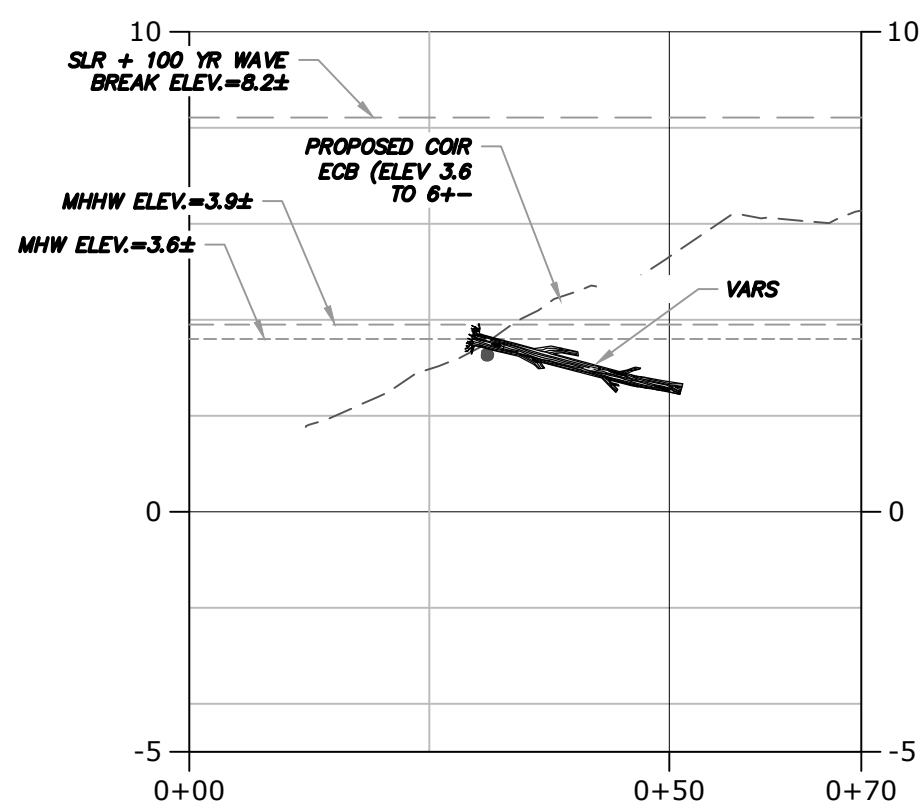
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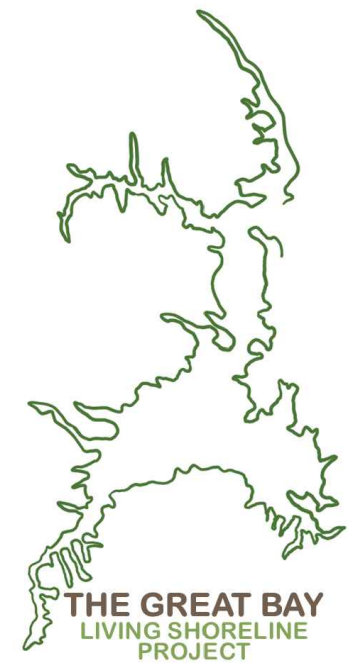
XSEC4 - STA: 0+00 TO 1+45



XSEC5 - STA: 0+00 TO 1+20



XSEC6 - STA: 0+00 TO 0+70



THE GREAT BAY
LIVING SHORELINE PROJECT

CONCEPTUAL
DRAWING
NOT FOR CONSTRUCTION

Moody Point Bank Stabilization and Living Shoreline

Moody Point
Community
Association

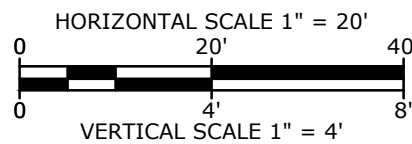
Newmarket, NH

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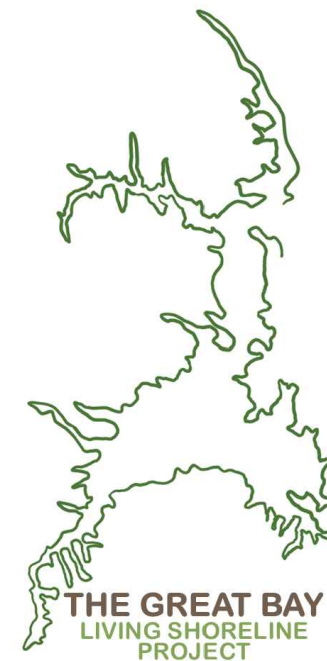
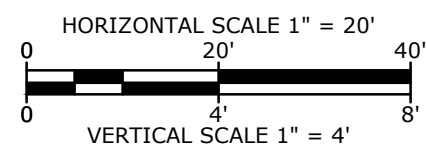
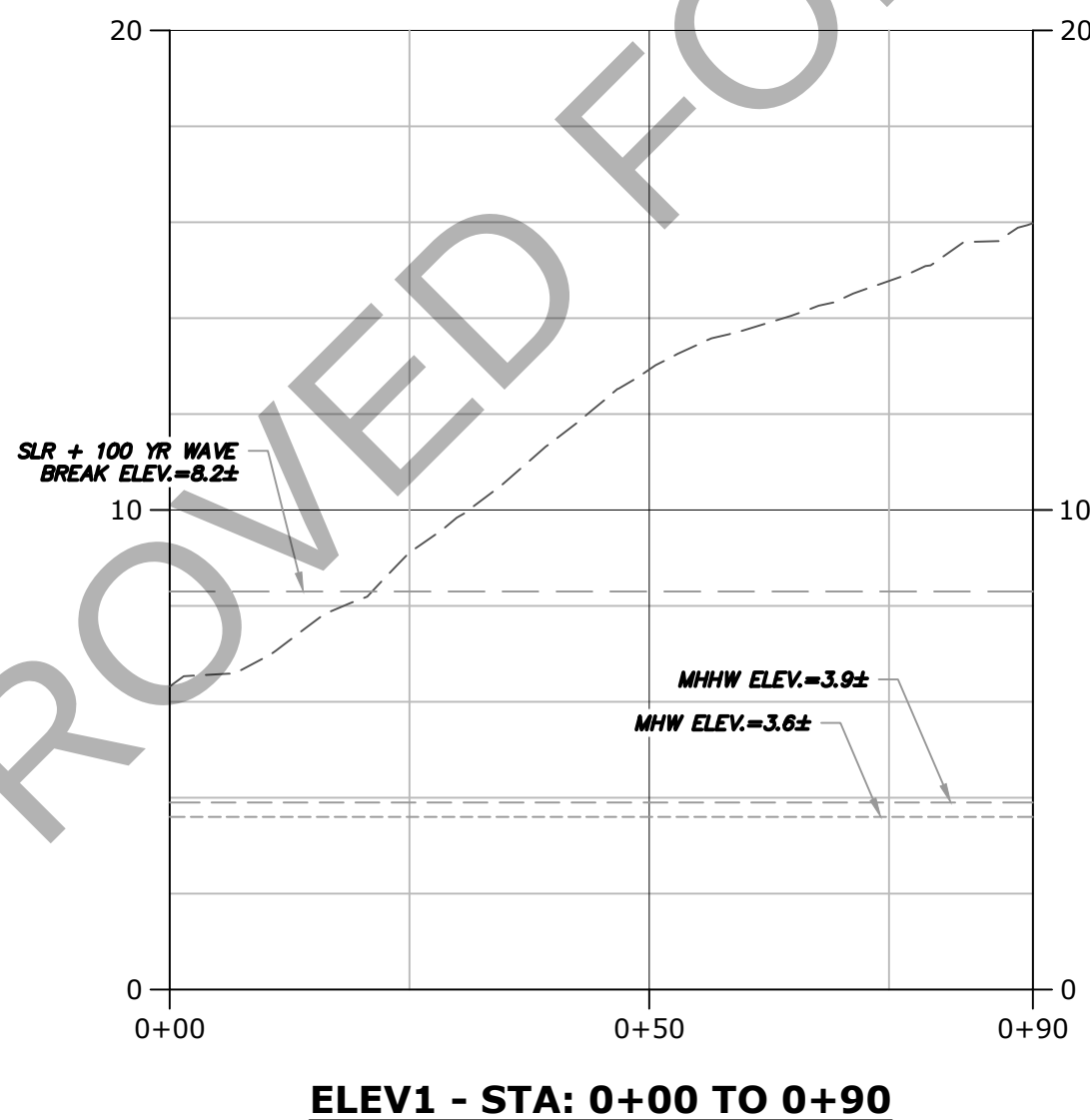
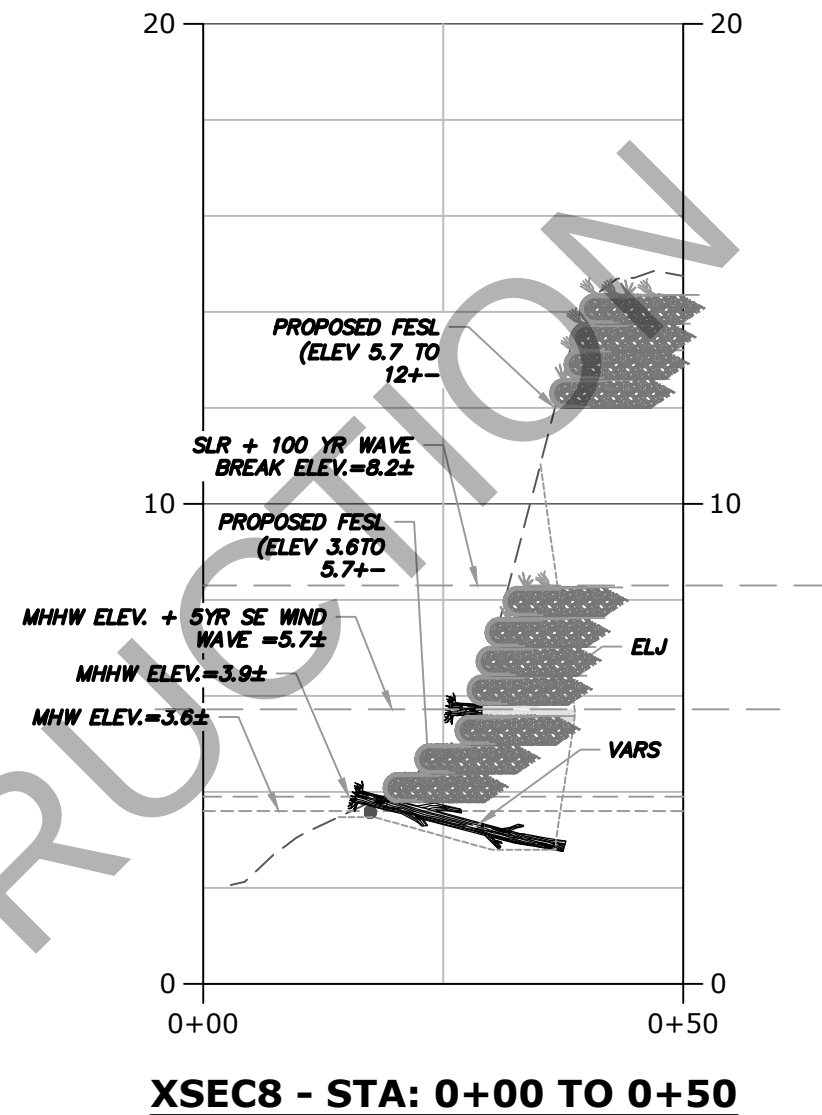
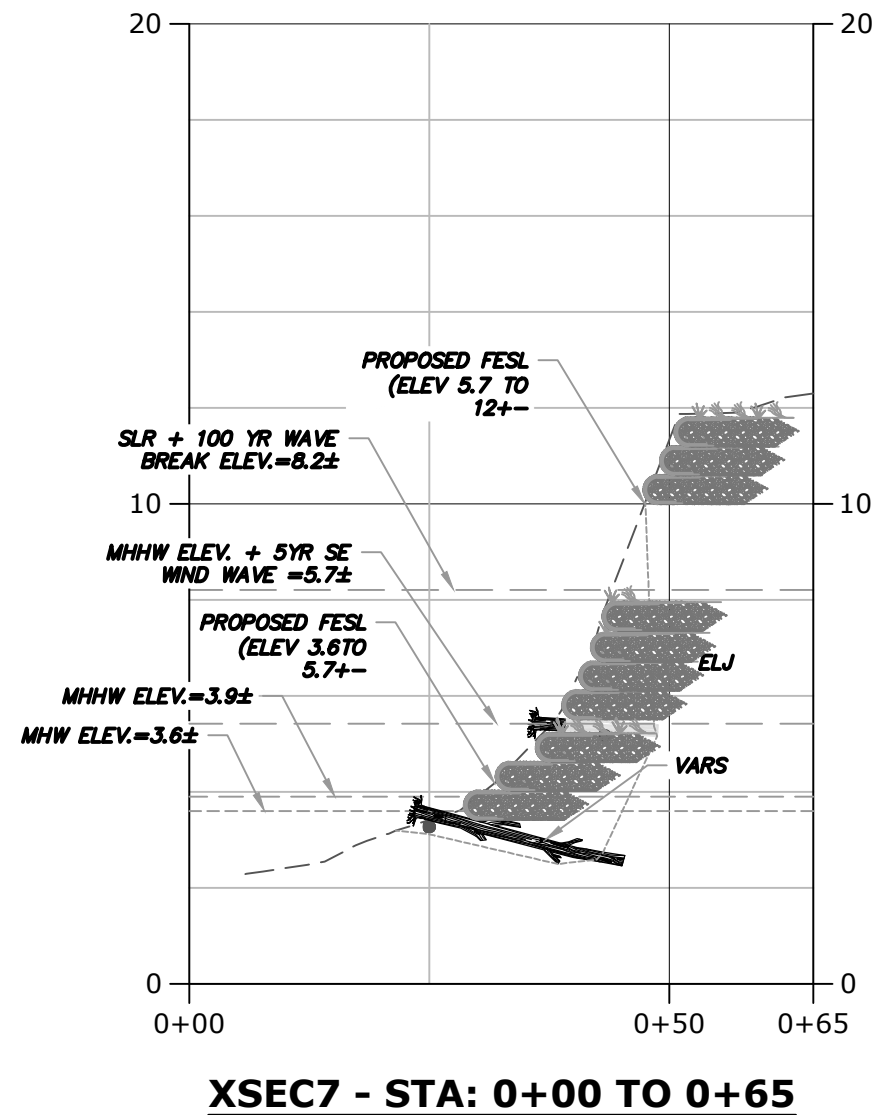
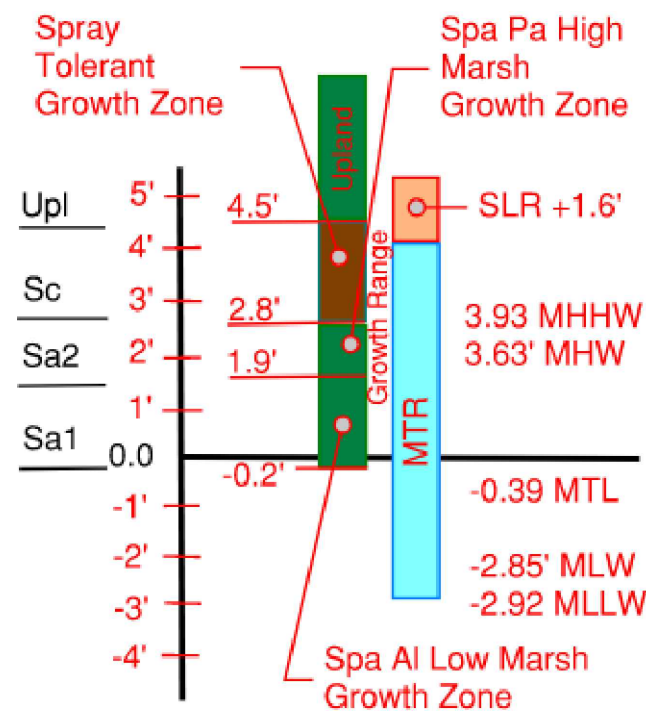
PROPOSED CROSS
SECTIONS

SCALE: AS SHOWN

C-303



Last Saved: 4/5/2022
Plotted On: Apr 05, 2022 3:00pm By: T Barry
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THE GREAT BAY
LIVING SHORELINE
PROJECT

**CONCEPTUAL
DRAWING**
NOT FOR CONSTRUCTION

Moody Point Bank Stabilization and Living Shoreline

Moody Point
Community
Association

Newmarket, NH

MARK	DATE	DESCRIPTION
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DRAWN BY:	NSC/CED	
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APPROVED BY:	XXX	

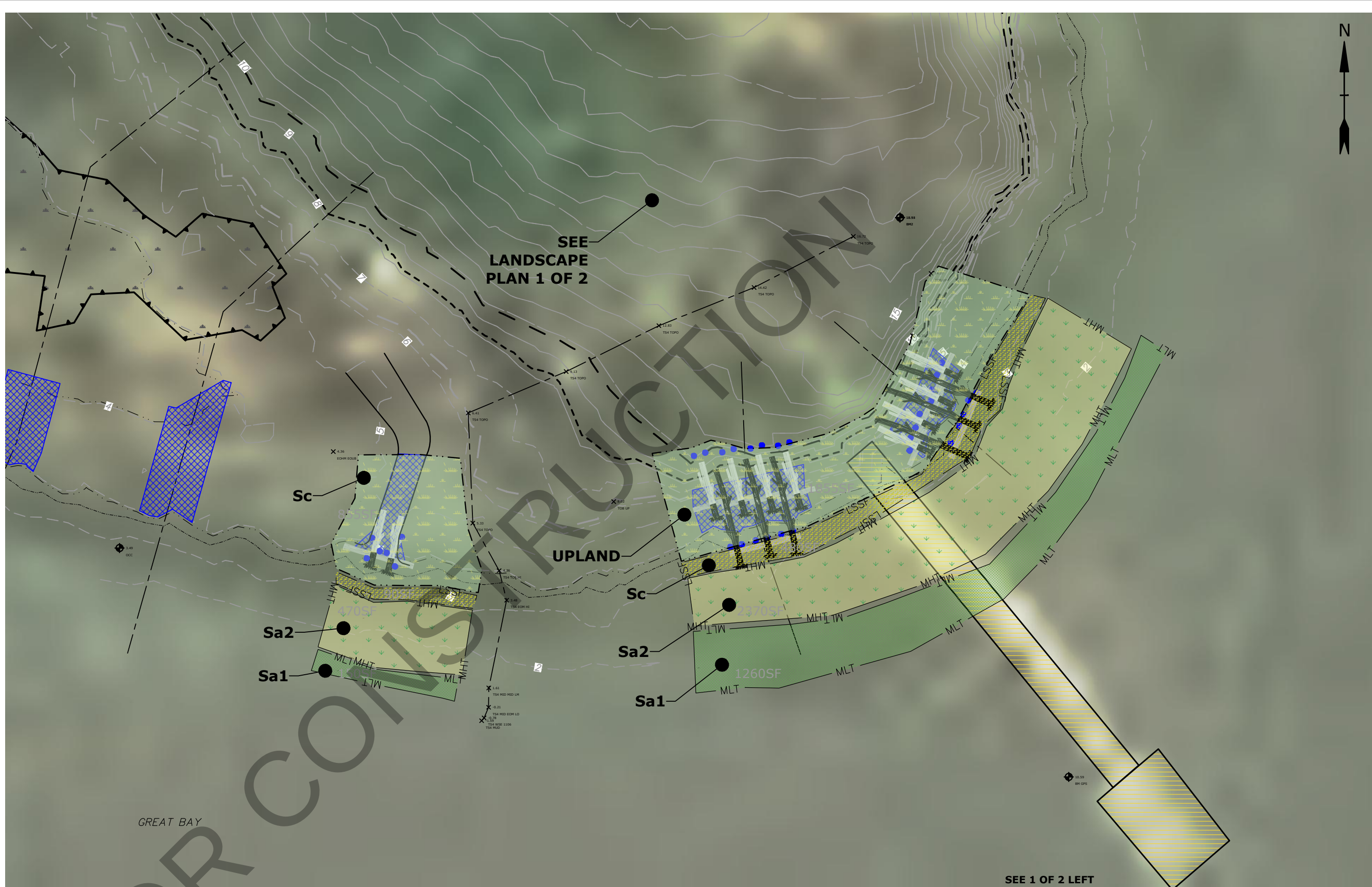
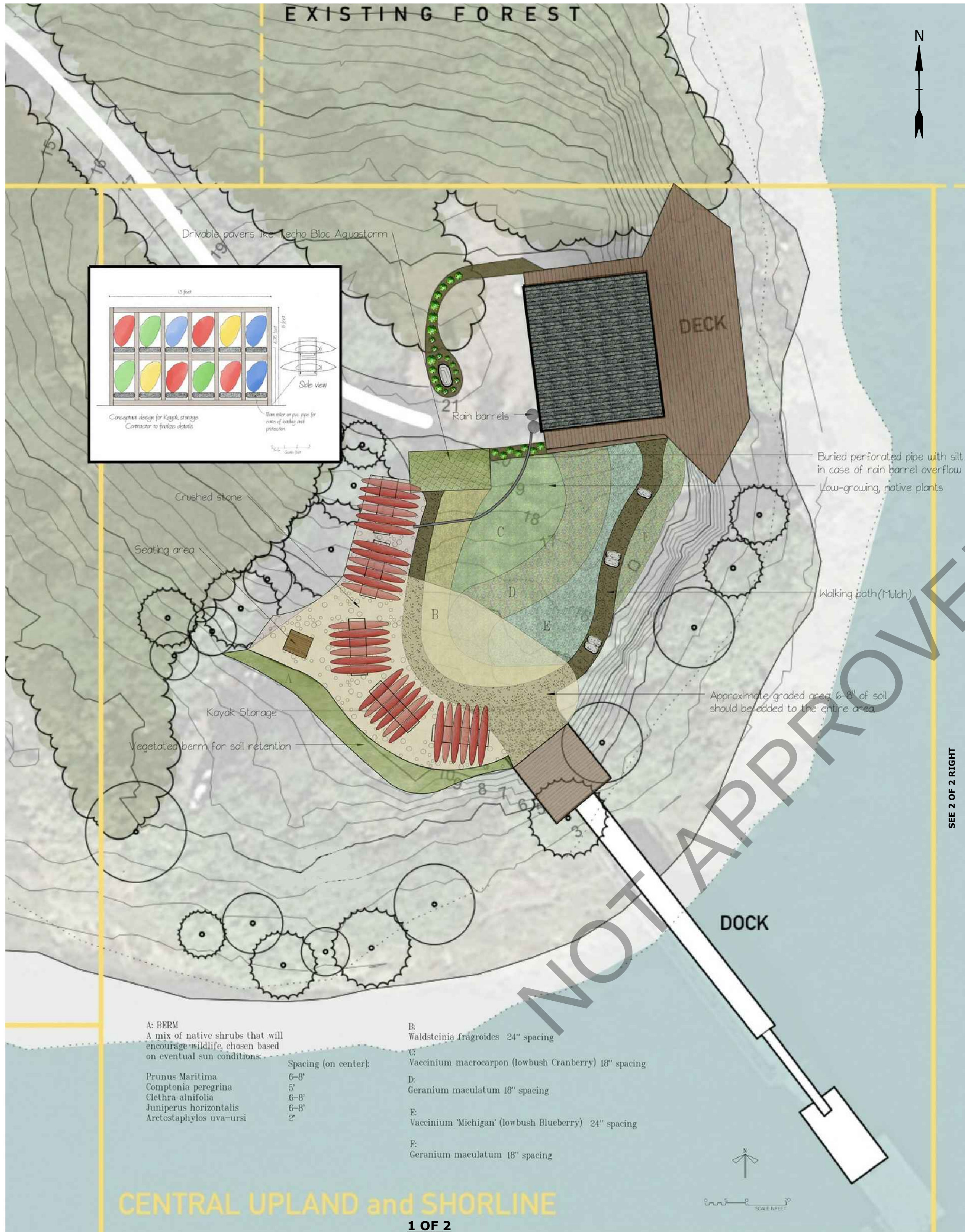
PROPOSED CROSS SECTIONS

SCALE: AS SHOWN

C-304

Last Saved: 4/5/2022
Plotted On: Apr 05, 2022 3:42pm By: T Barry
Title & User: D:\References\Coastal Living Shoreline\GreatBay - Newmarket - NH\CAD\Sheet\Moody Point-C-DSGN_TB.dwg

LIVING SHORELINE PLANTING SCHEDULE					
SCIENTIFIC NAME	COMMON NAME	PLANT SIZE	PLANTING DISTANCE (O.C.)	QUANTITY	NOTES
UPLAND					
PRUNUS MARITIMA	BEACH PLUM	1 gal	6-8 feet	TBD	PLANTING ZONE UPLAND SLOPE
CLETHRA AINFLOLIA	SWEET PEPPERBUSH	18" TO 24"-1 Gal	6-8 feet		INSTALL ON BERM
COMPTONIA PEREGRINA	SWEET FERN	1 Gal	5 feet		INSTALL ON BERM
JUNIPERUS HORIZONTALIS	CREEPING JUNIPER	1 Gal	6-8 feet		INSTALL ON BERM
ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	1 Gal	2 feet		INSTALL ON BERM
RUBUS OCCIDENTALIS	BLACK RASBERRY	18" TO 24"	4"		INSTALL AROUND PERIMETER
GROUND COVER					
VACCINIUM ANGUSTIFOLIUM	LOW BUSH BERRY	3" TO 5"	1' TO 2'	TBD	PLANTING ZONE UPLAND
GERANIUM MACULATUM	WILD GERANIUM	1 Gal	24 Inches		INSTALL THROUGHOUT SITE (SCATTERED)
VACCINIUM MACROCARPON	AMERICAN CRANBERRY	1 Gal	18 Inches		UPLAND GROUND COVER
WALDSTEINIA FRAGAROIDES	BARREN STRAWBERRY	1 Gal	24 Inches		UPLAND GROUND COVER
SPRAY ZONE - Sc					
JVA FRUTESCENS	HIGH TIDE BUSH	TRANSPLANT*	2 Feet		PLANTING ZONE Sc - SPRAY ZONE
JUNIPERUS HORIZONTALIS	CREEPING JUNIPER	1 Gal	6-8 Feet		
PANICUM VIRGATUM	SWITCHGRASS	1 Gal	2 Feet		
HIGH MARSH - Sa2					
SPARTINA PATENS	SALTMEADOW CORDGRASS	MAT	2 Feet	TBD	PLANTING ZONE Sa2 - HIGH MARSH
DISTICHLIS SPICATA	SALTGRASS	1 Gal	8 Feet		
JUNCUS GERARDII	BLACK NEEDLE RUSH	1 Gal	8 Feet		
LOW MARSH - Sa1					
SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	MAT	2 Feet	TBD	PLANTING ZONE Sa1 - LOW MARSH

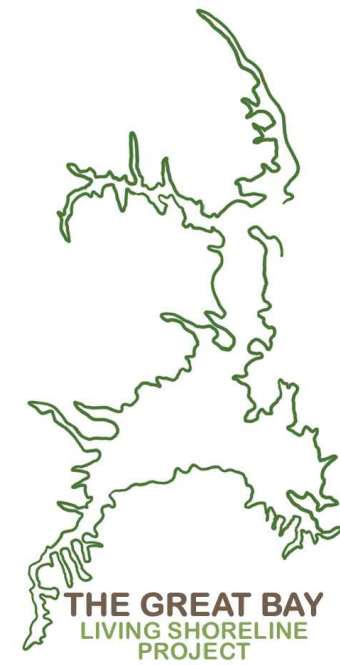
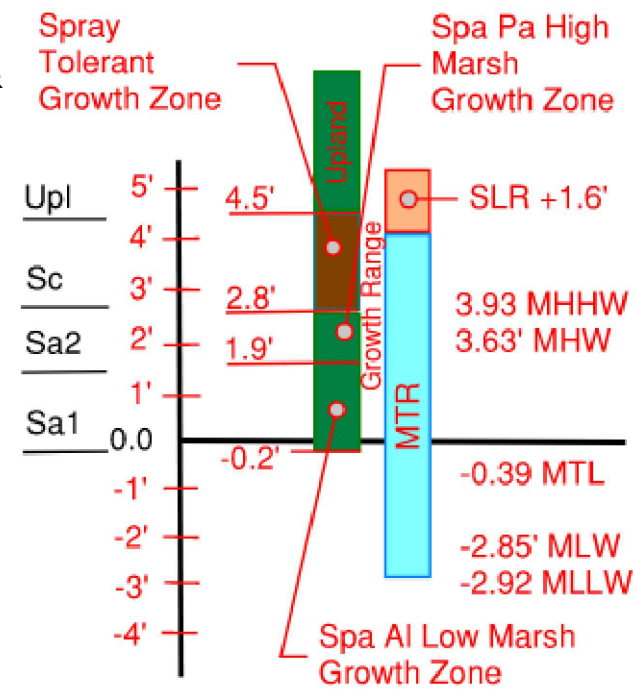


- PLANTING NOTES:**
- PLANTINGS SHALL BE COMPLETED ACCORDING TO ZONE HORIZON.
 - PROPOSED SEED MIX SHALL BE BROADCAST SEED.
 - BROADCAST SEED ON LOAM FOR ALL FABRIC ENCAPSULATED SOIL LIFTS AND ENGINEERED LOG JAMS.
 - ALL DISTURBED AREAS SHALL BE SEED WITH ONE OF THE FOLLOWING SEED MIXES, OR APPROVED EQUAL. SEEDING MAY ALSO INCLUDE ANNUAL RYE FOR INITIAL STABILIZATION.
 - ERNST SEEDS RIPARIAN BUFFER MIX:

COMMON NAME	BOTANICAL NAME
DEERTOUNGE	PANICUM CLANDESTINUM
VIRGINIA WILD RYE	ELYMUS VIRGINICUS
BIG BLUESTEM	ANDROPOGON GERARDII
INDIAN GRASS	SORGHASTRUM NUTANS
SWITCHGRASS	PANICUM VIRGATUM
BLACK EYED SUSAN	RUDBECKIA HIRTA
SWAMP MILKWEED	ASCLEPIAS INCARNATA
BLUE VERVAIN	VERBENA HASTATA
BONESET	EUPATORIUM PERFORIATUM
COMMON SNEEZEWEED	HELENIUM AUTUMNALE
NEW ENGLAND ASTER	ASTER NOVAE-ANGLIAE
FLAT TOPPED WHITE ASTER	ASTER UMBELLATUS
GOLDEN ALEXANDERS	ZIZIA AUREA
WILD BERGAMOT	MONARDA FISTULOSA
WRINKLELEAF GOLDENROD	SOLIDAGO RUGOSA
 - NEW ENGLAND WETLAND PLANTS - NEW ENGLAND CONSERVATION/WILDLIFE MIX:

COMMON NAME	BOTANICAL NAME
VIRGINIA WILD RYE	ELYMUS VIRGINICUS
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM
BIG BLUESTEM	ANDROPOGON GERARDII
RED FESCUE	FESTUCA RUBRA
INDIAN GRASS	SORGHASTRUM NUTANS
SWITCH GRASS	PANICUM VIRGATUM
PARTRIDGE PEA	CHAMAECRISTA FASCICULATA
PANICLELEAF TICK TREFOIL	DESMODIUM PANICULATUM
BLUE VERVAIN	VERBENA HASTATA
BUTTERFLY MILKWEED	ASCLEPIAS TUBEROSA
BLACK EYED SUSAN	RUDBECKIA HIRTA
COMMON SNEEZEWEED	HELENIUM AUTUMNALE
HEATH ASTER	ASTER PILOSUS (SYMPHYOTRICHUM PILOSUM)
EARLY GOLDENROD	SOLIDAGO JUNCEA
UPLAND BENTGRASS	AGROSTIS PERENNANS

- GENERAL NOTES:**
- POTENTIAL IMPLEMENTATION SCHEDULE:
 - WINTER
 - HARVEST TREES
 - WINTER
 - WEAVES (PAWW).
 - LATE WINTER:
 - INSTALL ENGINEERED LOG JAMS (ELJ) AND FABRIC ENCAPSULATED SOIL LIFTS (FESL) IN UPPER SHORELINE
 - WEAVE PAWW AND BABS STRUCTURES BY HOA WITH ENVIRONMENTAL STAFF.
 - PLANTINGS IN UPLAND AREAS.



THE GREAT BAY
LIVING SHORELINE PROJECT

CONCEPTUAL DRAWING NOT FOR CONSTRUCTION

Moody Point Bank Stabilization and Living Shoreline

Moody Point
Community
Association

Newmarket, NH

MARK	DATE	DESCRIPTION
PROJECT NO:	N5000-000	
DATE:	March 25, 2022	
FILE:	MOODY POINT-C-DSGN_TB.DWG	
DRAWN BY:	NSC/CED	
DESIGNED/CHECKED BY:	TROY BARRY	
APPROVED BY:	XXX	

PROPOSED PLANTING PLAN

SCALE: AS SHOWN

C-006