



LEGEND

—	EXISTING
—	MEGIS ELEVATION CONTOURS
—	MEGIS PARCEL BOUNDRIES
- - -	TIDAL WADING WATERFOWL HABITAT
- - -	SHOREBIRD HABITAT



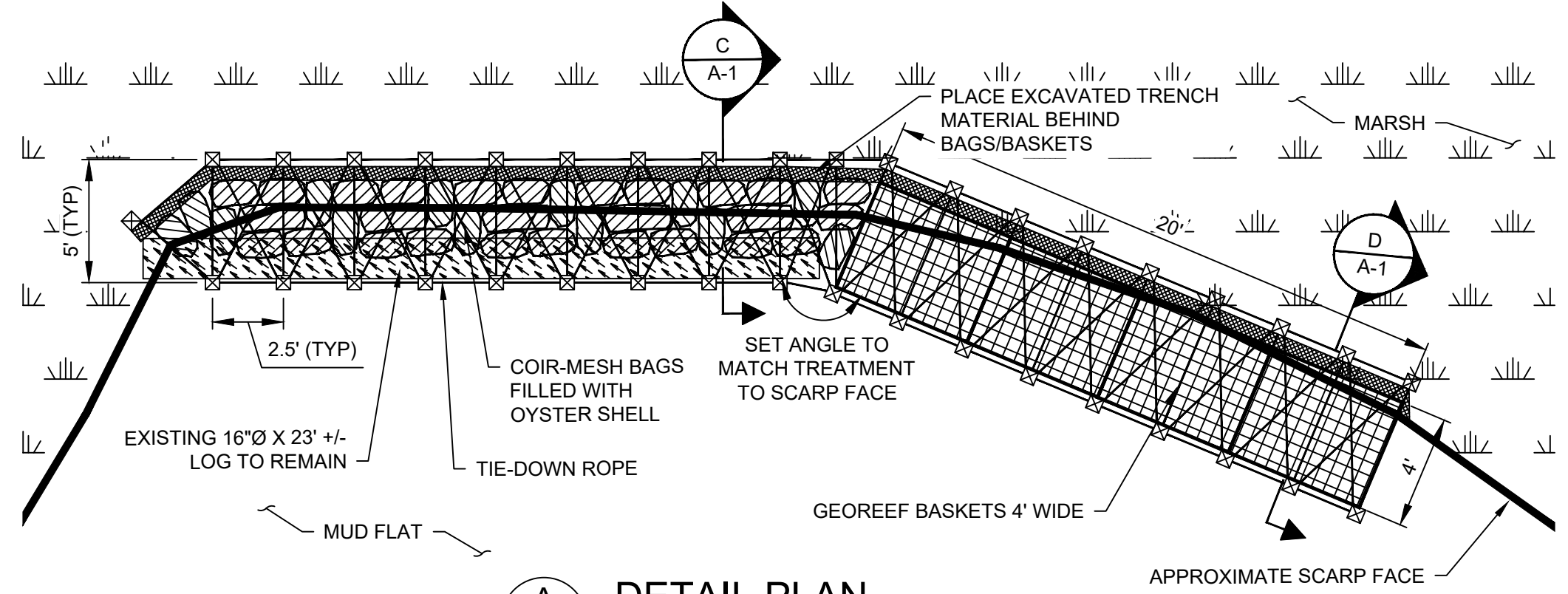
ELEVATION	MLLW	NAVD88*
BFE	+17.14	+12.00
HAT	+11.64	+6.50
MHHW	+10.00	+4.86
MHW	+9.56	+4.42
MLW	+0.29	-4.85
MLLW	0.00	-5.14

*PROJECT DATUM

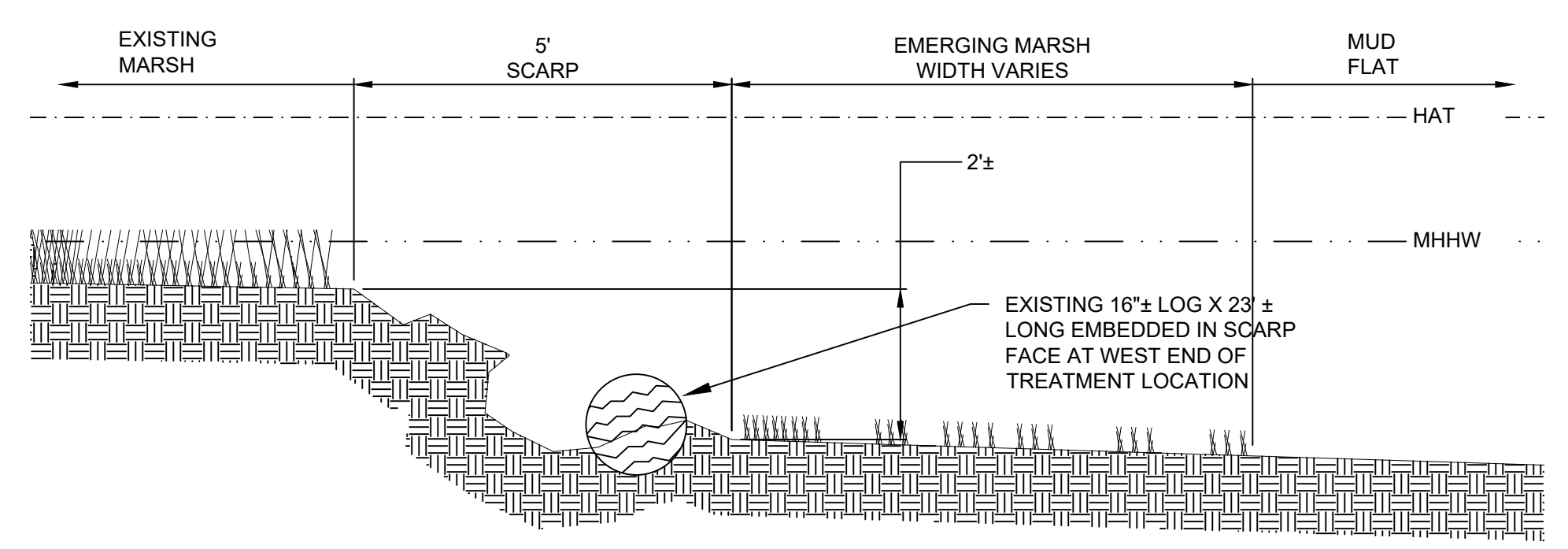
NO.	DATE	ISSUE/REVISION	APP
B	11/13/2019	REVISED MATERIAL SPECIFICATIONS	DB
A	7/23/2019	PRELIMINARY DESIGN	VH

Attention:

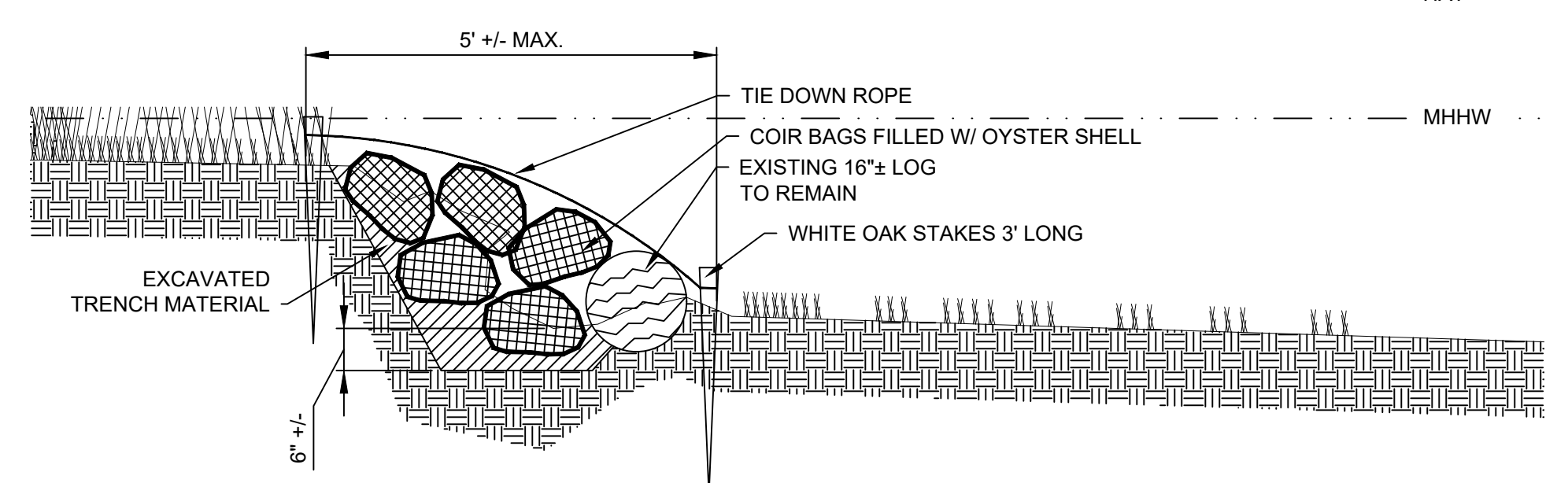
If this scale bar does not measure 1" then drawing is not original scale.



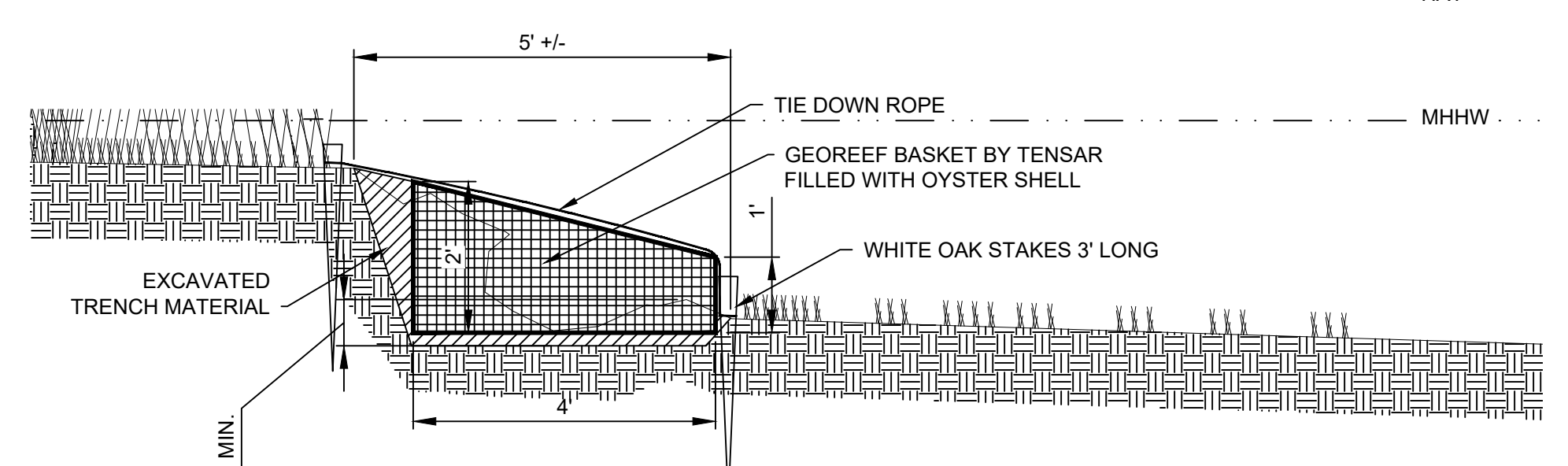
A DETAIL PLAN
A-1 SCALE: 1"=5'-0"



B EXISTING SECTION
A-1 SCALE: 1/2"=1'-0"



C COIR BAG TREATMENT SECTION
A-1 SCALE: 1/2"=1'-0"



D GEOREEF TREATMENT SECTION
A-1 SCALE: 1/2"=1'-0"

- SURVEY AND PROPERTY NOTES**
1. THE SUBJECT PARCEL IS DEPICTED ON TOWN OF BRUNSWICK TAX MAP 26, LOT 26.
 2. THE RECORD OWNER IS MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE.
 3. PROJECT BASEPLAN HAS BEEN COMPILED FROM MAINE GIS 2-FT CONTOUR DATA, PARCEL BOUNDARIES, ORTHOIMAGERY, AND ENVIRONMENTAL HABITAT LAYERS.
 4. THE ENTIRE PROJECT AREA IS LOCATED IN AN AREA THAT IS MAPPED AS TIDAL WADING WATERFOWL HABITAT.
 5. MARSH SURVEY POINT DATA DEPICTED HEREON WAS COLLECTED BY PETER SLOVINSKY OF MAINE GEOLOGICAL SURVEY DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY, IN LATE 2018, AND CAN REFLECT THE CONDITIONS AS THEY EXISTED DURING THE TIME OF THE SURVEY.

- CONSTRUCTION ACCESS AND STAGING:**
1. STAGING AND MATERIAL STORAGE SHALL BE IN DESIGNATED LAY DOWN AREA ADJACENT EXISTING BOAT RAMP ON MAQUOIT ROAD.
 2. ACCESS TO PROJECT AREA SHALL BE ALONG DESIGNATED ACCESS ROUTE. AVOID MARSH VEGETATION DURING SITE ACCESS.
 3. WORK SHALL BE COMPLETED DURING LOW WATER CONDITIONS. NO IN-WATER WORK SHALL BE PERFORMED.
 4. TRACKED OR WHEELED EQUIPMENT OPERATING ALONG THE MUDFLAT SHALL USE TEMPORARY MATS ALONG THE ACCESS ROUTE.

- MATERIALS:**
1. IN ACCORDANCE WITH REGULATORY REVIEW COMMENTS, MATERIALS USED TO CONTAIN OYSTER SHELL SHALL CONSIST OF SYNTHETIC MATERIALS FOR 50% OF THE TREATMENT LENGTH AND BIODEGRADABLE MATERIALS FOR 50% OF THE TREATMENT LENGTH.
 2. SYNTHETIC SECTION SHALL UTILIZE GEOREEF BASKETS BY TENSAR INTERNATIONAL CORPORATION. GEOREEF BASKET UNITS SHALL HAVE NOMINAL DIMENSIONS OF 4' WIDE X 5' OR 10' LONG X 2' HIGH. EMPTY GEOREEF BASKETS SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS. BASKETS SHALL BE SITE-FILLED WITH CLEAN OYSTER SHELL TO THE DIMENSIONS INDICATED ON THE PLANS AND STITCHED SHUT.
 3. BIODEGRADABLE SECTION SHALL CONSIST OF COIR-FABRIC BAGS WITH NOMINAL DIMENSIONS OF 18"X24" USING 1000 GSM COIR FABRIC. BAGS SHALL BE FILLED WITH CLEAN OYSTER SHELL OFFSITE AND DELIVERED TO THE SITE FOR INSTALLATION. BAGS SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 4. STAKES SHALL BE 1 1/2" X 1 1/2" X 36" SAWN WHITE OAK.
 5. ROPE SHALL BE 3/8" DIAMETER HEMPEX SYNTHETIC ROPE OR EQUIVALENT.

- INSTALLATION:**
1. A 6-IN DEEP ± TRENCH SHALL BE EXCAVATED ALONG THE LENGTH OF THE INSTALLATION TO ALLOW FOR EMBEDMENT OF THE BOTTOM COURSE OF BAGS.
 2. MATERIAL EXCAVATED FROM THE TRENCH SHALL BE STOCKPILED ADJACENT TO THE INSTALLATION FOR REUSE AS FILL IN VOIDS BETWEEN BACKSIDE OF OYSTER BAGS AND SCARP FACE.
 3. THE DAILY LIMIT OF EXCAVATION SHALL BE NO MORE THAN CAN BE REMOVED AND REPLACED DURING ONE LOW-TIDE CYCLE. NO EXPOSED STOCKPILES SHALL BE ALLOWED TO BE EXPOSED TO HIGH WATER CONDITIONS.
 4. PLACE OYSTER BAGS TO LINES AND LIMITS SHOWN ON PLANS. NOTE THAT PLAN GEOMETRY IS APPROXIMATE. THE INTENT IS FOR THE FACE OF THE TREATMENT TO FOLLOW THE SHAPE OF THE EXISTING SCARP FACE.
 5. INSTALL WOOD STAKES PER THE PLAN AND DETAILS SHOWN ON THIS SHEET. STAKES SHALL INITIALLY BE DRIVEN TO APPROXIMATELY 2/3 OF THEIR TOTAL EMBEDMENT PRIOR TO INSTALLING ROPE LASHING. AFTER LASHING IS INSTALLED, STAKES SHALL BE DRIVEN THEIR REMAINING DEPTH TO TIGHTEN THE LASHING OVER THE OYSTER BAGS.

CALCULATION OF IMPACTS BEYOND HAT:

COIR BAG TREATMENT SECTION	4 FT X 25 FT = 100 SF
GEOREEF TREATMENT SECTION	5 FT X 20 FT = 100 SF
TOTAL	= 200 SF

PRELIMINARY

Designed: VH
Checked: DB
Drawn: JF/AB
Submitted By: DB
P.E. Number: -



State of Maine Bureau of Real Estate Management
Augusta, ME

GEI Project 1902025

Living Shoreline Pilot Program
Wharton Point
Brunswick, ME

**SITE A:
OVERVIEW PLAN**

DWG. NO.
A-1
SHEET NO.
2 OF 4