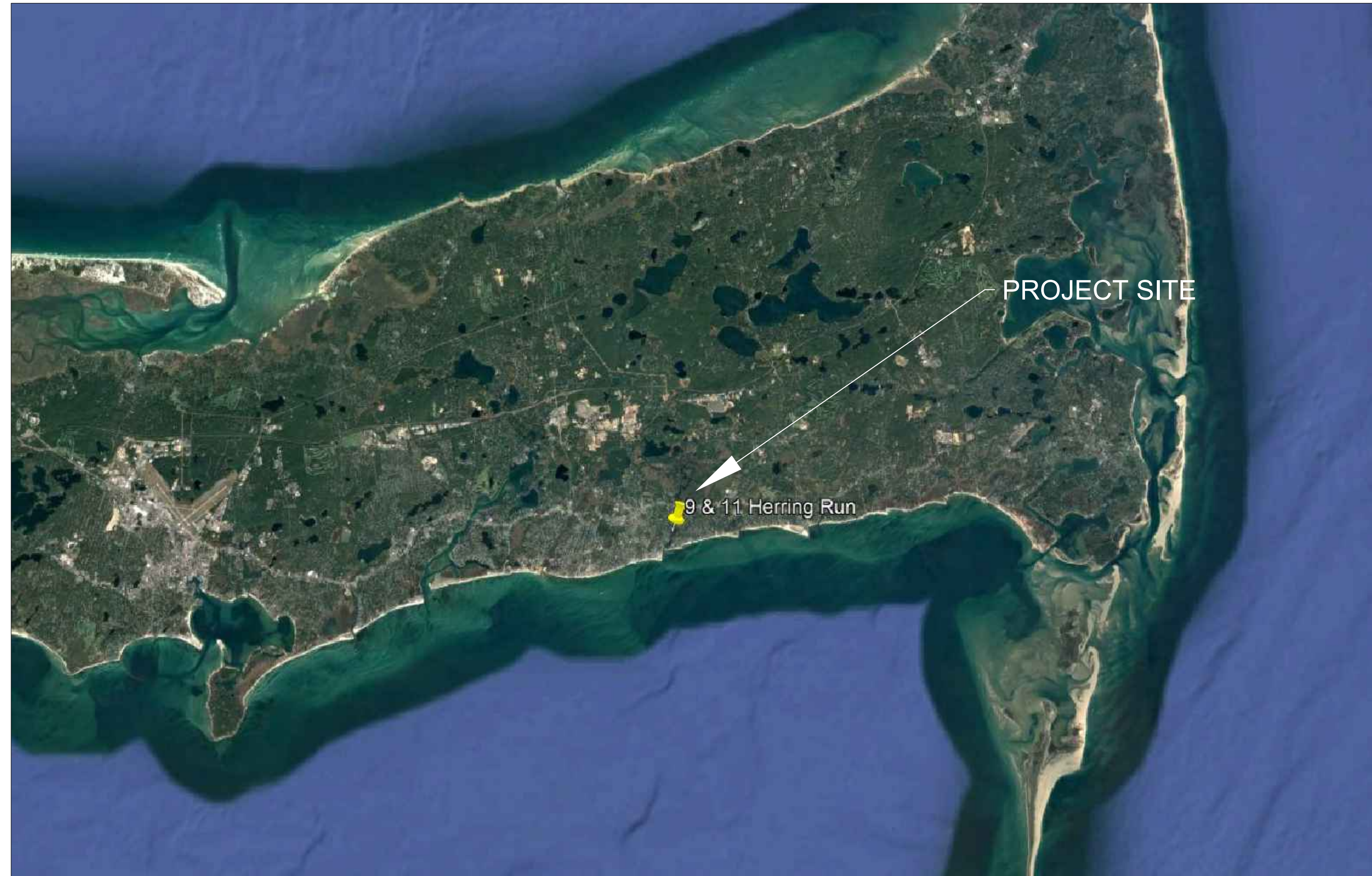


# PROPOSED DOCK

9 & 11 HERRING RUN, HARWICH MA



**SITE VICINITY MAP**  
SCALE: N.T.S.



**SITE LOCATION MAP**  
SCALE: NTS

## SHEET INDEX

SHEET	DESCRIPTION	DATE	REV. DATE
G-001	COVER, SHEET INDEX, LOCATION & VICINITY MAPS	02-08-2022	04-05-2023
G-002	GENERAL NOTES, LEGEND AND DATUM	02-08-2022	04-05-2023
C-101	EXISTING CONDITIONS	02-08-2022	04-05-2023
C-102	PROPOSED DOCK AND DREDGING	02-08-2022	07-28-2023
C-301	CROSS SECTION AND DETAILS	02-08-2022	04-05-2023

PREPARED FOR: DAVID AND PAULA MOGAN AND DANIEL COREY  
PREPARED BY: COASTAL ENGINEERING COMPANY, INC.

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NO.	DATE	REVISION	BY
1	04-05-2023	VISUAL PLAN CHANGES AND ADDITION OF SHELLFISH BAGS	MJT

PROJECT	DAVID & PAULA MOGAN & DANIEL COREY	HARWICH, MA
PROJECT NO.	11 & 9 HERRING RUN	
SHEET TITLE	COVER, SHEET INDEX, LOCATION & VICINITY MAPS	
SCALE	AS NOTED	
DRAWING FILE	C19802_C19804_C-MAR_WIP.dwg	
DATE	02-08-22	
DRAWN BY	CAA/MJT	
CHECKED BY	TDT	

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**G-001**

1 OF 5 SHEETS

PROJECT NO.  
C19802.00 & C19804.00

**GENERAL NOTES:**

- THE PROJECT IS LOCATED IN THE TOWN OF HARWICH, MA ALONG HERRING RIVER AND IS REFERENCED BY:  
ASSESSORS MAP 3 PARCELS X3-2 AND X3-3
- THE HYDROGRAPHIC SURVEY DATA AS ON THIS PLAN WAS COLLECTED ON DECEMBER 03, 2021, BY COASTAL ENGINEERING COMPANY AND ONLY REPRESENTS THE SEA FLOOR DEPTH AS IT EXISTED DURING THE TIME OF THE SURVEY.
- THE TOPOGRAPHIC SURVEY AND HYDROGRAPHIC SURVEYS PREPARED BY COASTAL ENGINEERING COMPANY REPRESENTED ARE IN REFERENCED TO MLW AS CALCULATED USING THE CONVERSION FACTOR TO NAVD 1988 AS INDICATED ON THE DRAWINGS.
- EXISTING UTILITIES, UNDERGROUND AND OVERHEAD, MAY EXIST IN ADDITION TO THE UTILITY INFORMATION SHOWN ON THESE PLANS. THIS PLAN MUST NOT BE USED TO LOCATE UNDERGROUND UTILITIES. CALL DIG SAFE AT 811 AND APPROPRIATE TOWN UTILITY OFFICES PRIOR TO STARTING ANY EXCAVATION.
- THE SUBJECT PREMISES AS SHOWN LIES WITHIN FLOOD ZONE VE (EL. 13), ZONE AE (EL. 13), ZONE AE (EL. 12), AND ZONE X AS INDICATED ON FLOOD INSURANCE RATE MAP NUMBER 25001C0611J FOR BARNSTABLE COUNTY MASSACHUSETTS WITH AN EFFECTIVE DATE OF JULY 16, 2014.
- THE PROPERTY LINES SHOWN ARE APPROXIMATE ONLY. THEY ARE A GRAPHICAL REPRESENTATION OF THE GENERAL LOT CONFIGURATION LIMITED TO THE AREA OF WORK AND HAVE NOT BEEN DETERMINED BY A REGISTERED PROFESSIONAL LAND SURVEYOR. THEREFORE THEY SHOULD NOT BE USED FOR ANY PURPOSE THAT WOULD REQUIRE AN ACTUAL BOUNDARY RETRACEMENT SURVEY.
- THIS SURVEY HAS BEEN PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.
- RIPARIAN BOUNDARIES ARE SUBJECT TO CHANGE DUE TO NATURAL CAUSES AND THAT THE BOUNDARY SHOWN HEREON MAY OR MAY NOT REPRESENT THE ACTUAL LOCATION OF THE LIMIT OF TITLE.
- CONTRACTOR SHALL SUPPLY ALL MATERIAL, EQUIPMENT AND LABOR FOR CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS AS DESCRIBED AND SHOWN ON THE PLAN AND DETAILS.
- ACCESS FOR MATERIAL AND EQUIPMENT TO BE THROUGH THE PROPERTY OF 9 HERRING RUN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMISSION REQUIRED FOR USE OF ANY AND ALL ACCESS.
- STAGING AREA FOR MATERIALS AND EQUIPMENT TO BE ABOVE THE MEAN HIGH WATER ELEVATION. IF THE WATER ELEVATION IS EXPECTED TO BE HIGHER THAN NORMAL, MACHINERY AND EQUIPMENT WILL BE BROUGHT TO THE UPLAND AREA OF 9 HERRING RUN. WHEN MACHINERY AND EQUIPMENT ARE NOT IN USE, THEY SHALL BE KEPT IN THE STAGING AREA.
- PERFORMANCE OF THE WORK SHALL BE IN COMPLIANCE WITH THE PLAN, DETAILS, AND ORDER OF CONDITIONS ISSUED BY THE HARWICH CONSERVATION COMMISSION FOR THE REFERENCED PROJECT AND AS DESCRIBED BELOW AND APPROVED THE WORK.
- ANY FUTURE MAINTENANCE REQUIRED SHALL NOT COMMENCE UNTIL THE HARWICH CONSERVATION AGENT HAS FIRST BEEN NOTIFIED AS TO THE SCOPE OF THE REPAIRS.
- ALL DIMENSIONS, GRADES, ETC. SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER TO BE RESOLVED PRIOR TO CONSTRUCTION.
- ALL FILL MATERIAL BROUGHT TO THE SITE SHALL BE COARSE, CLEAN MATERIAL OF SIMILAR GRAIN SIZE COMPATIBILITY.
- ABUTTERS NAMES SHOWN HEREON REFERENCE THE CURRENT TOWN OF HARWICH ASSESSORS RECORDS AT THE TIME OF THIS PLAN.
- SPECIAL PROVISIONS FOR COASTAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOUND IN THE "COASTAL CONSTRUCTION MANUAL" AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA-55) MA.

**EROSION & SEDIMENT CONTROL NOTES:**

- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL UNTIL COMPLETION OF SITEWORK AND ESTABLISHMENT OF VEGETATIVE GROUND COVER.
- THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING MEASURES DURING THE DAY TO DAY OPERATION AT THE SITE. THE SITE SHOULD BE POLICED DAILY TO REMOVE ANY LITTER OR DEBRIS.
- TEMPORARY SOIL MATERIAL STOCKPILES SHALL BE SURROUNDED WITH SILTATION BARRIER ON THE DOWNGRADIENT SIDE TO PREVENT DISCHARGE OF SEDIMENT FROM SITE. MATERIAL STOCKPILES THAT ARE IN PLACE FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED WITH VEGETATION, MULCHING, EROSION CONTROL BLANKETS, AND OTHER MEASURES THAT ARE NECESSARY TO PREVENT THE DISCHARGE OF SEDIMENT FROM THE PROJECT SITE.
- IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
- PRIOR TO STARTING WORK, CLEARLY MARK WORK LIMITS. DO NOT DISTURB THE AREA BEYOND THE PROPOSED LIMITS. COORDINATE WITH THE ENGINEER FOR LOCATIONS OF TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.
- REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION.
- SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
- ALL HYDRAULIC EQUIPMENT SHALL UTILIZE BIODEGRADABLE, VEGETABLE BASED, NON-TOXIC AND NON-POLLUTING HYDRAULIC FLUID.
- STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.
- PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

**TIMBER NOTES:**

- FRAMING LUMBER SHALL CONFORM TO THE LATEST EDITION OF THE AFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION", LATEST EDITION. MAXIMUM MOISTURE CONTENT SHALL BE 19%.
- THE FRAMING LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADE AND SPECIES FOR THE SPECIFIED USE. ALL LUMBER SHALL BE GRADE STAMPED BY A RECOGNIZED GRADING AGENCY AND SHALL BE SURFACE DRY.

**TIMBER PRESERVATIVE TREATMENT AND GRADE SPECIFICATIONS**

MEMEBER / LOCATION	LUMBER GRADE	SERVICE CONDITIONS	PRESERVATIVE RETENTION LEVEL AND TREATMENT	SURFACE TEXTURE
STRUCTURAL FRAMING MEMBERS	NO. 2 SYP	SALTWATER SPLASH / NOT IN GROUND CONTACT	0.60 PCF ACQ 0.23 PCF MCA	S4S OR ROUGH SAWN
MEMBERS WITH GROUND CONTACT	NO. 2 SYP	SALTWATER SPLASH/GROUND CONTACT	0.31 PCF MCA 0.60 PCF ACQ	S4S OR ROUGH SAWN

- CONNECTORS, CONNECTIONS, FASTENERS, ETC. USED TO SECURE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED, UNLESS NOTED OTHERWISE
- LUMBER WHICH IS SPLIT, CRACKED, NOTCHED OR OTHERWISE ALTERED OR DAMAGED SHALL BE IMMEDIATELY REJECTED AND NOT ALLOWED FOR USE, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- CONTRACTOR SHALL SUBMIT PROPOSED WOOD SPECIES, GRADES, GRADING AGENCY, TYPE OF PRESSURE TREATMENT, MANUFACTURE DATA, AND CERTIFICATIONS TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO ORDERING ANY MATERIALS.
- USE FULLY NAILED METAL CONNECTORS (USP, SIMPSON, TECO, OR EQUAL), JOIST, OR BEAM HANGERS WHEN JOISTS OR BEAMS FRAME INTO OTHER JOISTS OR BEAMS.
- WOOD FRAMING BELOW THE BASE FLOOD ELEVATION SHALL BE FLOOD-DAMAGE RESISTANT MATERIALS IN ACCORDANCE WITH THE "COASTAL CONSTRUCTION MANUAL"

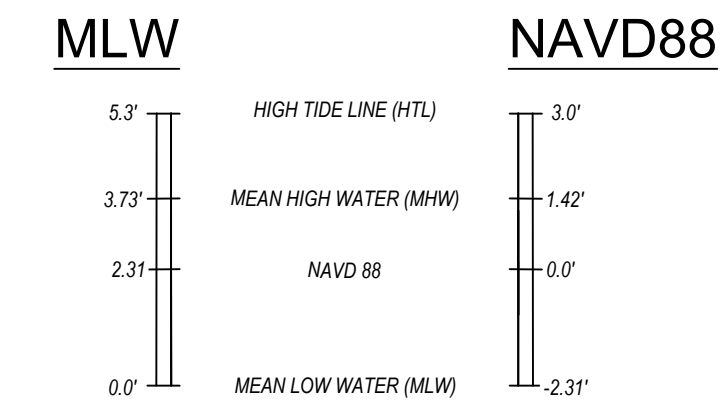
**MITIGATION NOTES**

- THE PROPOSED MITIGATION AS SHOWN WAS CALCULATED TO OFFSET THE TOTAL AREA OF WETLAND RESOURCE IMPACTS TO A 4:1 RATIO AS REQUIRED BY THE TOWN OF HARWICH BYLAWS TO THE WETLAND PROTECTION ACT.
- THE PROPOSED AREA OF MITIGATION WAS DETERMINED AS FOLLOWS:
  - COASTAL BANK = 69±S.F. (TOTAL AREA OF PIER/STAIRS WITHIN THE COASTAL BANK)
  - SALT MARSH = 300±S.F. (TOTAL AREA OF PIER WITHIN THE SALT MARSH)
  - COASTAL BEACH (TIDAL FLATS) = 3.14 S.F. (FOUR (4) 12" DIA PILES WITHIN THE COASTAL BEACH)
  - LAND UNDER OCEAN = 3.93 S.F. (FIVE (5) 12" DIA PILES WITHIN THE LAND UNDER OCEAN)
  - TOTAL AREA OF IMPACTED RESOURCE AREAS = 377± S.F.
  - REQUIRED (4:1) MITIGATION = 1,508 S.F.
- TOTAL PROPOSED MITIGATION = 1,662 S.F. > 1,508 S.F.
  - PROPOSED SHELLFISH MITIGATION: 72 OYSTER BAGS @ 6 S.F PER BAG = 432 S.F.
  - PROPOSED UPLAND MITIGATION = 1,230 S.F.

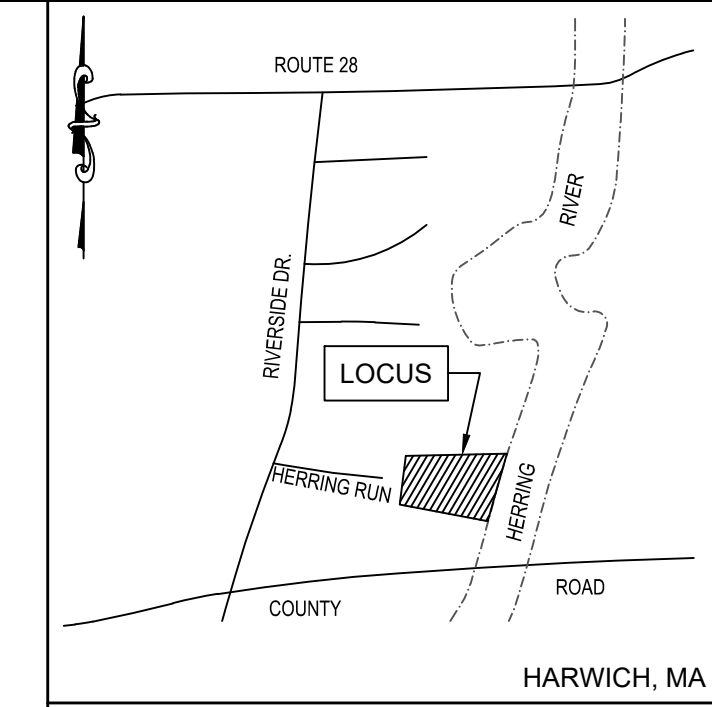
**LEGEND**

EXISTING		PROPOSED
--- 5 ---	MAJOR CONTOUR	— 5 —
--- 4 ---	MINOR CONTOUR	— 4 —
× 4.38	SPOT ELEVATION	+5.94
MHW EL = 1.5	MEAN HIGH WATER	
	SALT MARSH	
---	FLOOD ZONE	
---	LIMIT OF WORK	— LOW —
---	EBB/FLOOD DIRECTION	
---	80' OFFSET FROM MHW	
---	25' OFFSET FROM SALT MARSH	
	DREDGE FOOTPRINT	
■	BOUND	
---	PROPERTY LINE	
---	COASTAL BANK	
	VEGETATED AREA	
---	FLOODPLAIN CONTOUR	
	MOORING	
	DECIDUOUS TREE	
	WATER LEVEL	

**DATUM PROFILE**



NOAA TIDAL PROFILE  
STATION ID 8447495, SAQUATUCKET HARBOR, MA  
HTL REF: BUZZARDS BAY NATIONAL ESTUARY PROGRAM JULY 7, 2017 TIDAL DATUM CALCULATION



**KEY MAP**  
NO SCALE



NO.	DATE	REVISION
1	04-05-2023	VISUAL PLAN CHANGES AND ADDITION OF SHELLFISH BAGS

SEAL

PROJECT: DAVID & PAULA MOGAN & DANIEL COREY  
11 & 9 HERRING RUN  
SHEET TITLE: GENERAL NOTES, LEGEND, AND DATUM  
HARWICH, MA

SCALE	AS NOTED
DRAWING FILE	C19802_C19804_C-MAR_WIP.dwg
DATE	02-08-2022
DRAWN BY	CAAM/JT
CHECKED BY	TDT

PROJECT NO. C19802.00 & C19804.00

**G-002**

2 OF 5 SHEETS

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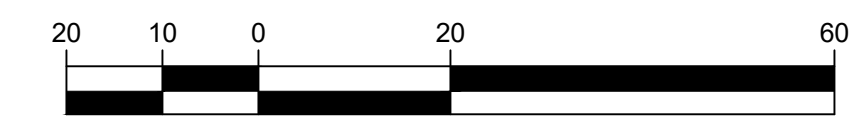
MASS. COORD. SYSTEM NAD 1983 MAINLAND ZONE



A  
C-101

**EXISTING SITE PLAN**

SCALE: 1" = 20'



1 inch = 20 ft.

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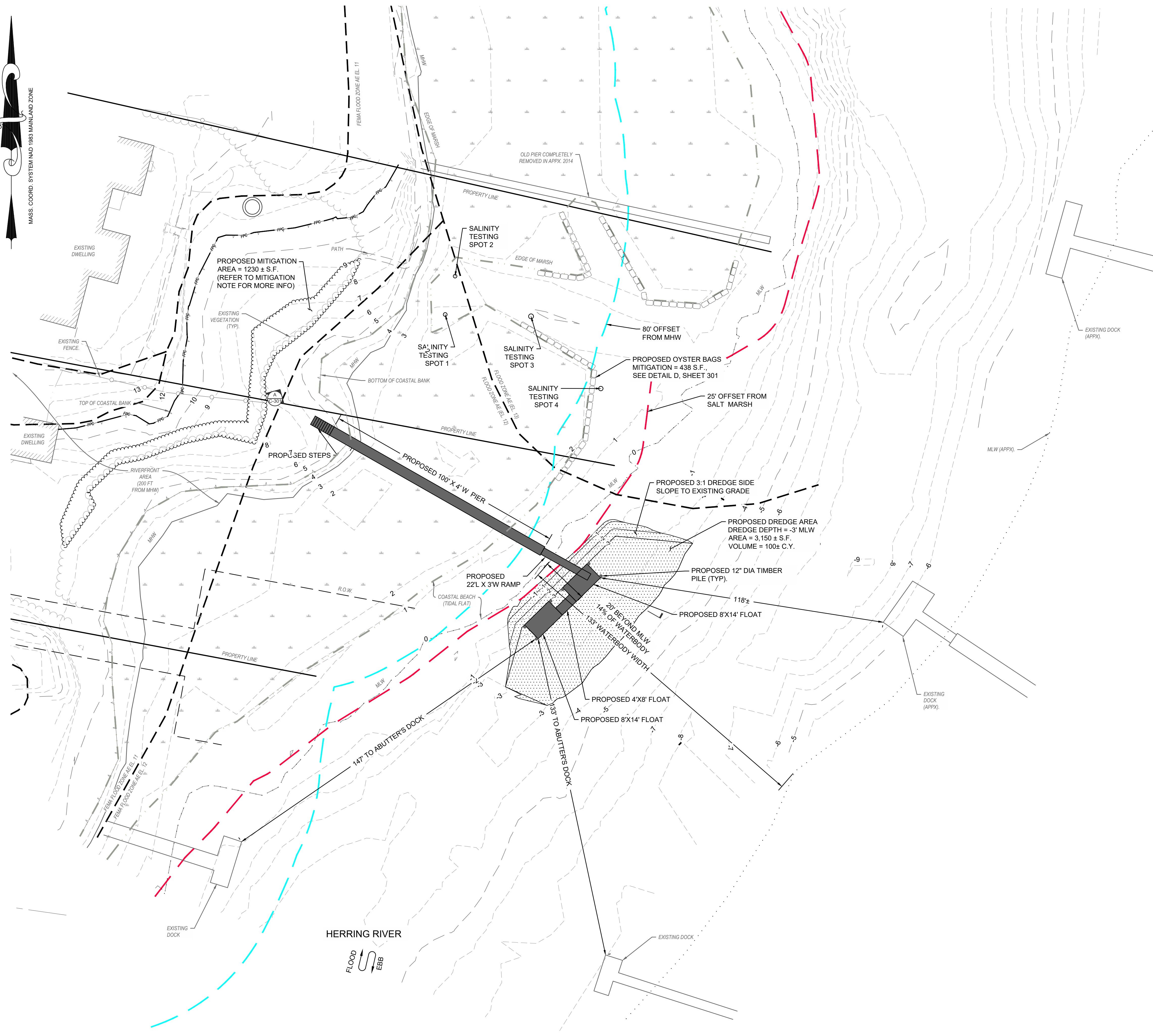
SEAL

PROJECT: DAVID & PAULA MOGAN & DANIEL COREY  
11 & 9 HERRING RUN HARWICH, MA  
SHEET TITLE: EXISTING CONDITIONS

SCALE	AS NOTED
DRAWING FILE	C19802_C19804_C-MAR_WIP.dwg
DATE	02-08-22
DRAWN BY	CA/MJT
CHECKED BY	TDT

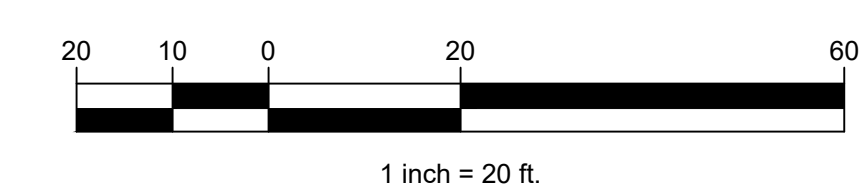
PROJECT NO. C19802.00 & C19804.00  
3 OF 5 SHEETS  
C-101

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TOWN OF HARWICH CONSERVATION COMMISSION WETLAND PROTECTION REGULATIONS (REV. 08-20-2021)		
REGULATION	REQUIREMENT	PROPOSED
MAXIMUM EXTENT BEYOND MHW	80'	119' (VARIANCE REQUIRED)
MAXIMUM DISTANCE INTO THE DEEP WATER CHANNEL	50'	26.4'
MINIMUM DISTANCE TO ADJACENT STRUCTURES	65'	118'
MAXIMUM STRUCTURE WALKWAY WIDTH	4'	4'
MAXIMUM FLOAT SIZE	200 S.F.	200 S.F.
MINIMUM DECK SPACING	2'	2'
MINIMUM ELEVATION OF DECKING	= 1.5X WIDTH OF THE DECK ABOVE MHW	6'
MINIMUM DISTANCE FROM EELGRASS BED	50'	N/A
MINIMUM DISTANCE TO SHELLFISH AREA	50'	SHELLFISH SURVEY PERFORMED SEE REPORT (VARIANCE REQUIRED)
WATER DEPTH OF STRUCTURE AT MLW	3'	3'
2003 DEP Small Docks & Piers		
MAXIMUM DISTANCE ACROSS THE WATER BODY	25% WIDTH OF WATER BODY	14%
MINIMUM DISTANCE FROM PROPERTY LINE	25'	32' (SHARED DOCK)
MINIMUM PIER HEIGHT ABOVE MHW (IF NO PUBLIC ACCESS STEPS)	5'	6'
MINIMUM PILE SPACING	20X THE DIAMETER OF PILES, NO LESS THAN 10'	10'-15'
MINIMUM CROSS BRACING HEIGHT	ABOVE MHW	ABOVE MHW
MINIMUM PLANK SPACING FOR SOLID DECKING	2'	2'

IMPACT AREAS (S.F.)			
IMPACTED AREA (SF)	4X IMPACTED AREA (SF)	PROPOSED MITIGATION (SF)	
300	1,200	SHELL BAGS	438
		REMOVAL OF LAWN AND PLANT NATIVE SPECIES	1,230
		<b>TOTAL MITIGATION</b>	<b>1,668</b>



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**PROPOSED SITE PLAN**  
 SCALE: 1" = 20'

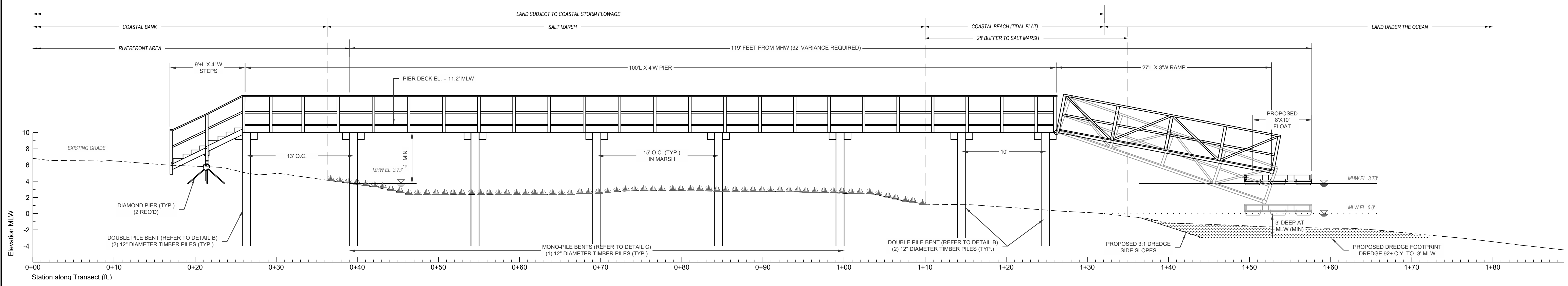


NO.	DATE	REVISION
3	07-28-2023	REVISED FLOAT LAYOUT AND MITIGATION TABLE
2	07-20-2023	REVISED FLOAT LAYOUT
1	04-05-2023	VISUAL PLAN CHANGES AND ADDITION OF SHELLFISH BAGS

SEAL

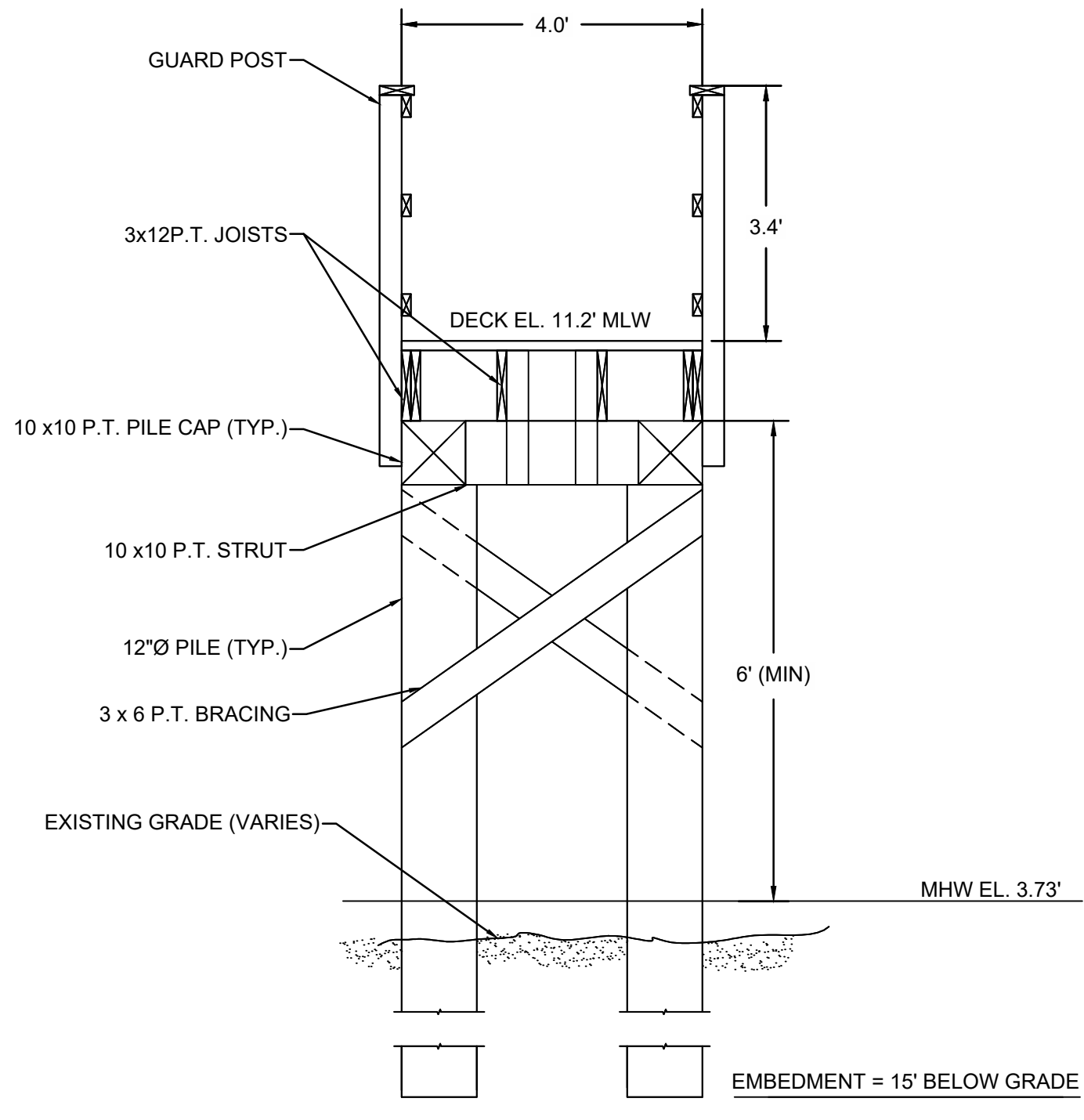
PROJECT: DAVID & PAULA MOGAN & DANIEL COREY  
 11 & 9 HERRING RUN  
 SHEET TITLE: PROPOSED DOCK AND DREDGING  
 HARWICH, MA  
 SCALE: AS NOTED  
 DRAWING FILE: C19802\_C19804\_C-MAR\_WIP.dwg  
 DATE: 05-16-2022  
 DRAWN BY: CAAM/JT  
 CHECKED BY: TDT  
**C-102**  
 4 OF 5 SHEETS  
 PROJECT NO. C19802.00 & C19804.00

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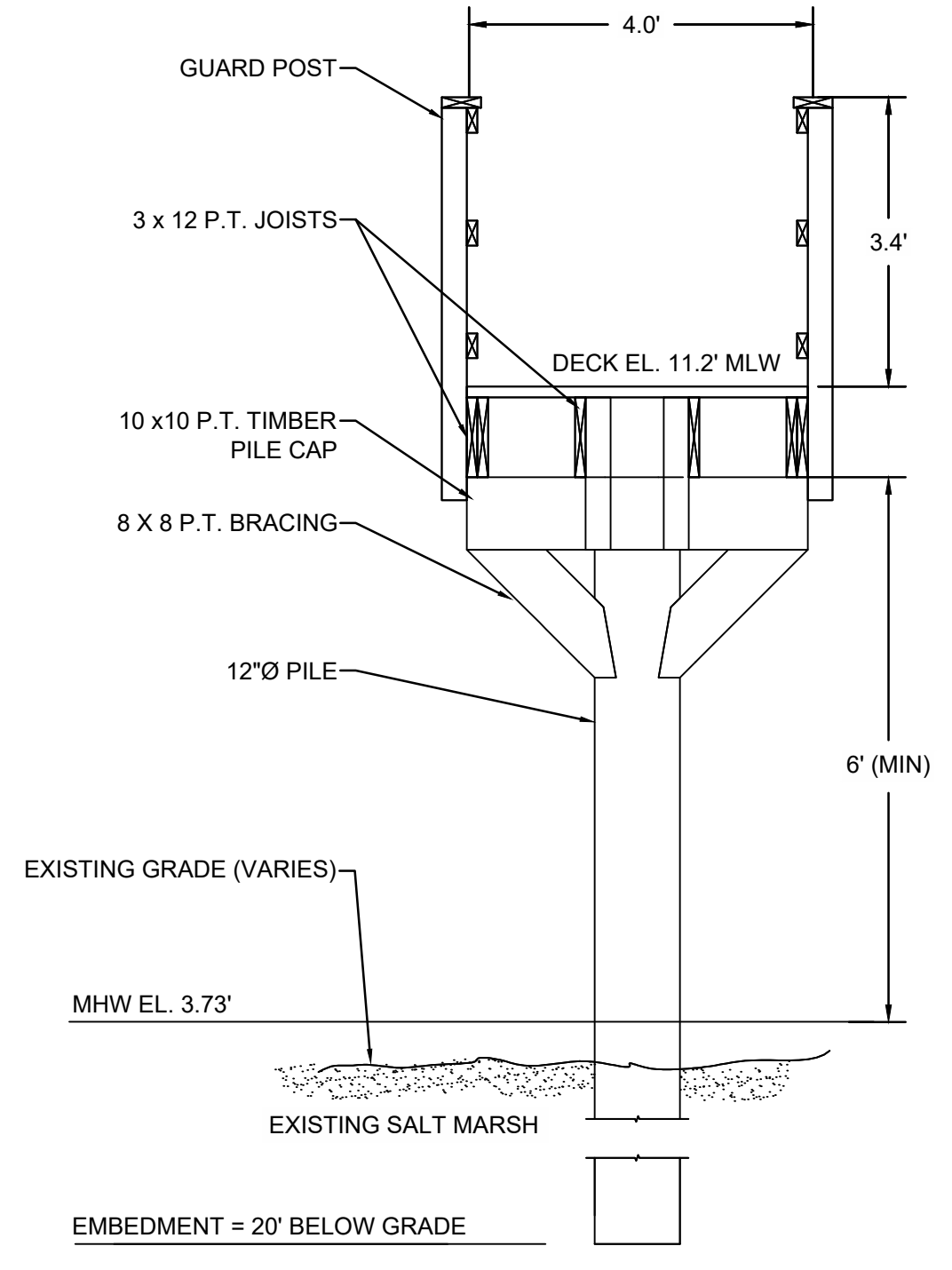
**A**  
C-301  
**CROSS SECTION DETAIL**  
SCALE: 1" = 6'

DOUBLE PILE BENTS TO BE IMPLEMENTED WHERE THE PROPOSED PIER DOES NOT TRAVERSE OVER EXISTING SALT MARSH

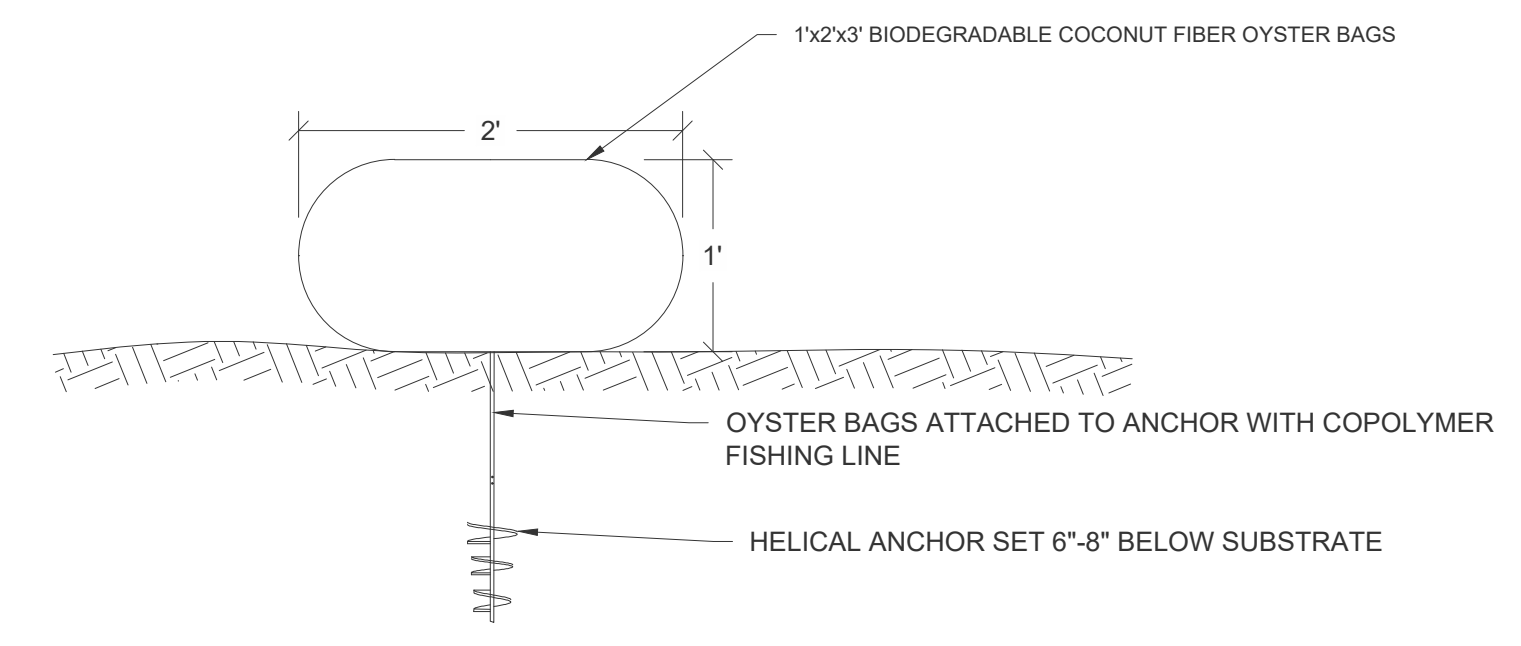


**B**  
C-301  
**DOUBLE PILE BENT DETAILS**  
SCALE: 1" = 2'

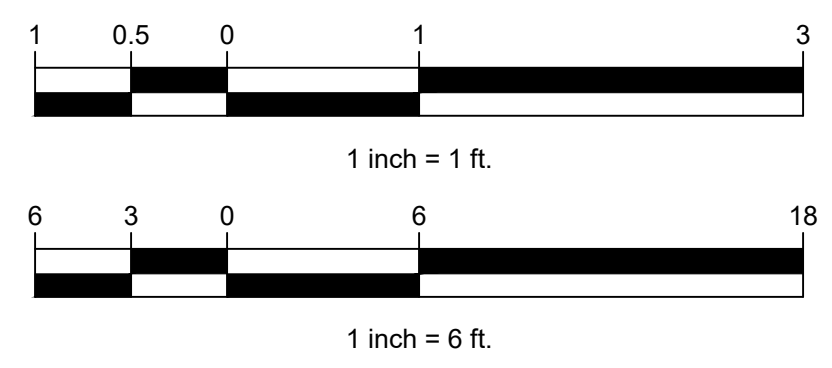
MONO PILE BENTS TO BE IMPLEMENTED WHERE THE PROPOSED PIER TRAVERSES OVER EXISTING SALT MARSH



**C**  
C-301  
**SINGLE PILE BENT DETAILS**  
SCALE: 1" = 2'



**D**  
C-301  
**OYSTER BAG DETAILS**  
SCALE: 1" = 1'



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NO.	DATE	REVISION	BY
1	04-05-2023	VISUAL PLAN CHANGES AND ADDITION OF SHELLFISH BAGS	MJT

PROJECT: DAVID & PAULA MOGAN & DANIEL COREY  
PROJECT LOCATION: 11 & 9 HERRING RUN, HARWICH, MA  
SHEET TITLE: CROSS SECTION AND DETAILS  
SCALE: AS NOTED  
DRAWING FILE: C19802\_C19804\_C-MAR\_WIP.dwg  
DATE: 05-16-2022  
DRAWN BY: CAAM/JT  
CHECKED BY: TDT  
PROJECT NO.: C19802.00 & C19804.00  
5 OF 5 SHEETS

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