



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT
P.O. BOX 2288
MOBILE, AL 36628-0001

October 11, 2022

CESAM RD-A
PUBLIC NOTICE NO. SAM-2019-01004-DCH

JOINT PUBLIC NOTICE
U.S. ARMY CORPS OF ENGINEERS AND
STATE OF ALABAMA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

REQUEST TO IMPACT 84 ACRES OF NEARSHORE AND SUBTIDAL
WATERBOTTOMS IN CONJUNCTION WITH A SHORELINE NOURISHMENT AND
PROTECTION PROJECT ALONG DAUPHIN ISLAND PARKWAY IN MOBILE BAY,
MOBILE COUNTY, ALABAMA

TO WHOM IT MAY CONCERN: This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), and Section 404 of the Clean Water Act (33 U.S.C. 1344). Please communicate this information to interested parties.

APPLICANT: Mobile County Commission
C/o: Ms. Tina Sanchez
205 Government Street
Mobile, Alabama 36644-1600

AGENT: Barry A. Vittor & Associates, Inc.
Attention: Dr. Barry A. Vittor
8060 Cottage Hill Road
Mobile, Alabama 36695

LOCATION: Mobile Bay; along Dauphin Island Parkway; North Segment: Sections 7, 18 and 32, Township 8 South, Range 1 West; South Segment: Sections 32 and 25, Township 8 South, Range 2 West; beginning near Latitude 30.354257° North, Longitude -88.117538° West, ending near Latitude: 30.314827° North, Longitude: -88.137648° West; Coden, Mobile County, Alabama.

PROJECT PURPOSE: The basic project purpose is to provide protection and restoration of an eroded shoreline. The overall project purpose is to provide shoreline protection by restoring the historic extent of the existing shoreline to the 1917 configuration and restore habitat function by reestablishing intertidal marsh and sand shoreline.

PROPOSED WORK: The applicant proposes to restore, enhance, and protect 3.2 miles of shoreline adjacent to the Dauphin Island Parkway and is anticipated to

reestablish up to 84 acres of tidal marsh. The shoreline protection and enhancement project will include the construction of 15,700 linear feet (LF) of low-profile rock breakwaters, the placement of 1,500,000 cubic yards (CY) of beneficial use dredged material obtained from the U.S. Army Corps of Engineers Mobile Harbor dredging project, and the planting of 410,000 native emergent tidal marsh vegetation. The project will also include dredging for the creation of 15,823 linear feet of temporary approach channels and of 33,000 LF of access channels, with temporary side cast areas, within 89.8 acres of estuarine waterbottoms. Material from access channels will be temporarily sidecast into 19.4 acre of waterbottoms within the footprint of the restoration area. The project would occur in two segments, a North Segment and a South Segment. Each project segment will include a material staging area within the fill footprint for temporary stockpiling of sediment, which includes a 6-acre area for the North Segment and a 7-acre area for the South Segment. Breakwaters will initially be installed along the southern third of both the North and South Segments, prior to sediment placement for the restored shoreline and marsh. It is estimated that the breakwater installation phase will take roughly 6 months for the North Segment and 9 months for the South Segment. Breakwaters along the northern two thirds of the North and South Segments will be installed after shallow layer sand fill placement, after the introduced sediment consolidates. A portion of the breakwaters will be installed without segments or gaps. These continuous breakwaters are to later have gaps installed at least every 1,000-feet that are at least 25-feet wide within three years (Figures 2D and 2E). Rock excavated to form these gaps will be spread in the immediate area to serve as hard bottom oyster habitat. The gaps will provide larval and nekton access to the restored shoreline and marsh. Existing oyster beds within 500-feet of sediment placement will be protected with an enhanced bottom sealing turbidity curtain (Fishtech or approved equal).

Location specific project descriptions and dimensions:

North Segment Construction: Hydraulic dredging of 135,500 CY of subtidal, silty-sand waterbottoms for the creation of 18,755 LF of temporary barge approach and access channels. The access channels will have an average width of 60 ft at the existing mudline and a depth of -5.48 feet MLLW. For the North Segment, approximately 39,350 CY of stone will be used to build a continuous breakwater (Figure 2A), with a top elevation at +5.52 feet MLLW (Figures 2C and 2D). The North Segment breakwaters will be 40 feet wide at base, and collectively cover a bay bottom area of 7 acres. The breakwaters will be placed at varying distances from the existing shoreline, up to a maximum of 625 feet into Mobile Bay. Pile-mounted signage will mark the breakwater segments. Following completion of the southern third of the breakwater containment structures, approximately 500,000 cubic yards of beneficial use material, to be delivered via barge, and will be hydraulically pumped and/or mechanically placed into the 38-acre placement area. Elevation of the restored marsh at the north segment will range from +2.52 ft MLLW at the landward edge to +1.27 ft MLLW at the seaward edge (Figure 2H). After sufficient sediment compaction, tidal channels will be excavated (if not formed naturally) and native marsh vegetation (smooth cordgrass (*Spartina alterniflora*), black needlerush (*Juncus roemerianus*), and salt meadow cordgrass (*Spartina patens*)) will be planted on 3-foot centers.

South Segment Construction: Excavation of 261,788 CY of subtidal, silty-sand waterbottoms for the creation of 30,068 LF of temporary barge approach and access channels. The access channels will have an average width of 60 ft at the existing mudline and a depth of -5.48 feet MLLW. For the South Segment, approximately 63,130 CY of stone will be used to build a continuous breakwater (Figure 2B), with top elevation at +5.52 feet MLLW, respectively (Figures 2C and 2E). The South Segment breakwater segments will be 50 feet wide at base and cover a bay bottom area of 13 acres. The South Segment will have typical linear breakwaters and semicircular breakwaters that will surround 0.5-acre oyster bay areas (Figure 2B). Typical oyster bay plans and sections are shown in Figure 2F. The breakwaters will be placed at varying distances from the existing shoreline, up to a maximum of 640 feet into Mobile Bay. As mentioned above, continuous breakwaters will later have gaps installed at least every 1,000-feet that are at least 25-feet wide within three years (Figures 2D and 2E). Pile-mounted signage will mark the breakwater segments. Following completion of the southern third of the breakwater containment structures, approximately 1,000,000 CY of beneficial use material, to be delivered via barge, and will be hydraulically pumped and/or mechanically placed into the 46-acre placement area. Target elevations of the restored marsh at the south segment will range from +2.72 ft MLLW at the landward edge to +1.32 ft MLLW at the seaward edge (Figure 2H). After sufficient sediment compaction, tidal channels will be excavated (if not formed naturally) and native marsh vegetation (smooth cordgrass (*Spartina alterniflora*), black needlerush (*Juncus roemerianus*), and salt meadow cordgrass (*Spartina patens*)) will be planted on 3-foot centers.

AVOIDANCE AND MINIMIZATION: The applicant has indicated that there are no proposed impacts to existing wetlands. An analysis of alternative project designs and modeling has been conducted by the applicant using various shoreline stabilization techniques and has concluded that the proposed design incorporates all necessary components required to achieve the desired shoreline configuration. The project has been designed to preclude direct impacts to existing or potential oyster resources, and to minimize any indirect impacts to those resources that might be caused by elevated turbidities during construction of access and approach channels and placement of sediment. Turbidity curtains are proposed to be installed to preclude excessive release of fine sediments from the placement areas landward of the breakwaters and along both sides of the sidecast areas for the approach channels. The applicant also proposes construction monitoring to include daily water quality (turbidity) testing to ensure compliance with State water quality standards. The U.S. Army Corps of Engineers (USACE), Mobile District, has not verified the adequacy of the applicant's avoidance and minimization efforts or alternatives analysis at this time.

WATER QUALITY / COASTAL ZONE MANAGEMENT: The applicant has applied for certification from the State of Alabama in accordance with Section 401(a)(1) of the Clean Water Act and for Coastal Zone Management (CZM) consistency concurrence in accordance with the Alabama Coastal Area Management Program. Upon completion of the required advertising and public comment review, a determination relative to Water Quality Certification and CZM consistency will be made by the Alabama Department of Environmental Management (ADEM). This notice will serve as the notification to the

Administrator of the Environmental Protection Agency (EPA) pursuant to section 401(a)(2) of the Clean Water Act.

HISTORIC PROPERTIES: In accordance with Section 106 of the National Historic Preservation Act and Appendix C of 33 CFR Part 325, the undertaking defined in this notice is being considered for the potential to affect cultural and historic properties within the permit area. In accordance with Appendix C of 33 CFR Part 325, the Mobile District has determined the permit area consists of the entire marsh restoration and shoreline protection area, the access channel and approach channel dredging and sidecast footprints, all to occur within waters of the United States, as well as the upland portions of the project area to be utilized for access and staging. The USACE has not yet determined the proposed project's effect on cultural resources or historic properties within the current Permit Area. Coordination with the State Historic Preservation Officer and federally-recognized American Indian tribes will be performed separately from this notice, as determined to be appropriate.

ESSENTIAL FISH HABITAT: This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The proposed project would occur within approximately 174-acres of non-vegetated estuarine substrate, which includes the shoreline restoration and protection footprint, as well as the access and approach channel dredge footprints. Dredging and the discharge of fill material would have the potential to affect any benthic organisms, filter feeders, and fin-fish in the immediate area. Neighboring benthic communities, filter feeders, and fin-fish within the water column would have the potential to be stressed by any migrant sediments and/or suspended particulates generated during the temporary period of construction. Existing oyster beds within 500-feet of sediment placement will be protected with an enhanced bottom sealing turbidity curtain (Fishtech or approved equal). Due to the proposed use of turbidity barriers and the temporary nature of the dredging activities, effects from dredging activities are expected to be minor and temporary, and benthic communities within the dredge footprint of the project are expected to repopulate rapidly. In regard to the shoreline protection and restoration areas, the Project would create up to 84 acres of tidally influenced marsh and tidal channels, providing a significant increase in fishery habitat function compared to the current condition. Our initial determination is that the proposed action May Adversely Affect EFH due to the nature and location of the activities. Our final determination is subject to review by and coordination with the National Marine Fisheries Service and/or the U.S. Department of Interior, and the U.S. Fish and Wildlife Service (USFWS).

ENDANGERED SPECIES: Preliminary review of this application and the U.S. Department of the Interior's List of Endangered and Threatened Wildlife and Plants indicate the following listed endangered or threatened species have the potential to exist within the watershed of the permit area: West Indian manatee (T), wood stork (T), Alabama red-bellied turtle (E), green sea turtle (T), Kemp's ridley sea turtle (E), and loggerhead sea turtle (T). There is no designated critical habitat within the project action area. Our initial determination is that the proposed activity may affect but is not likely to

adversely affect the West Indian manatee and the Alabama red-bellied turtle and will have no effect on the wood stork, green sea turtle, Kemp's ridley sea turtle, and loggerhead sea turtle. Our determination is being coordinated with the USFWS via this Public Notice.

COMMENTS: This public notice is being distributed to all known interested persons in order to assist in developing facts on which a decision by the USACE can be based. The Mobile District is soliciting comments from the public, federal, state and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the USACE to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed below. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, and in general, the needs and welfare of the people. Evaluation of the probable impacts involving deposits of dredged or fill material into waters of the United States will also include the application of guidelines established by the Administrator of the U.S. Environmental Protection Agency.

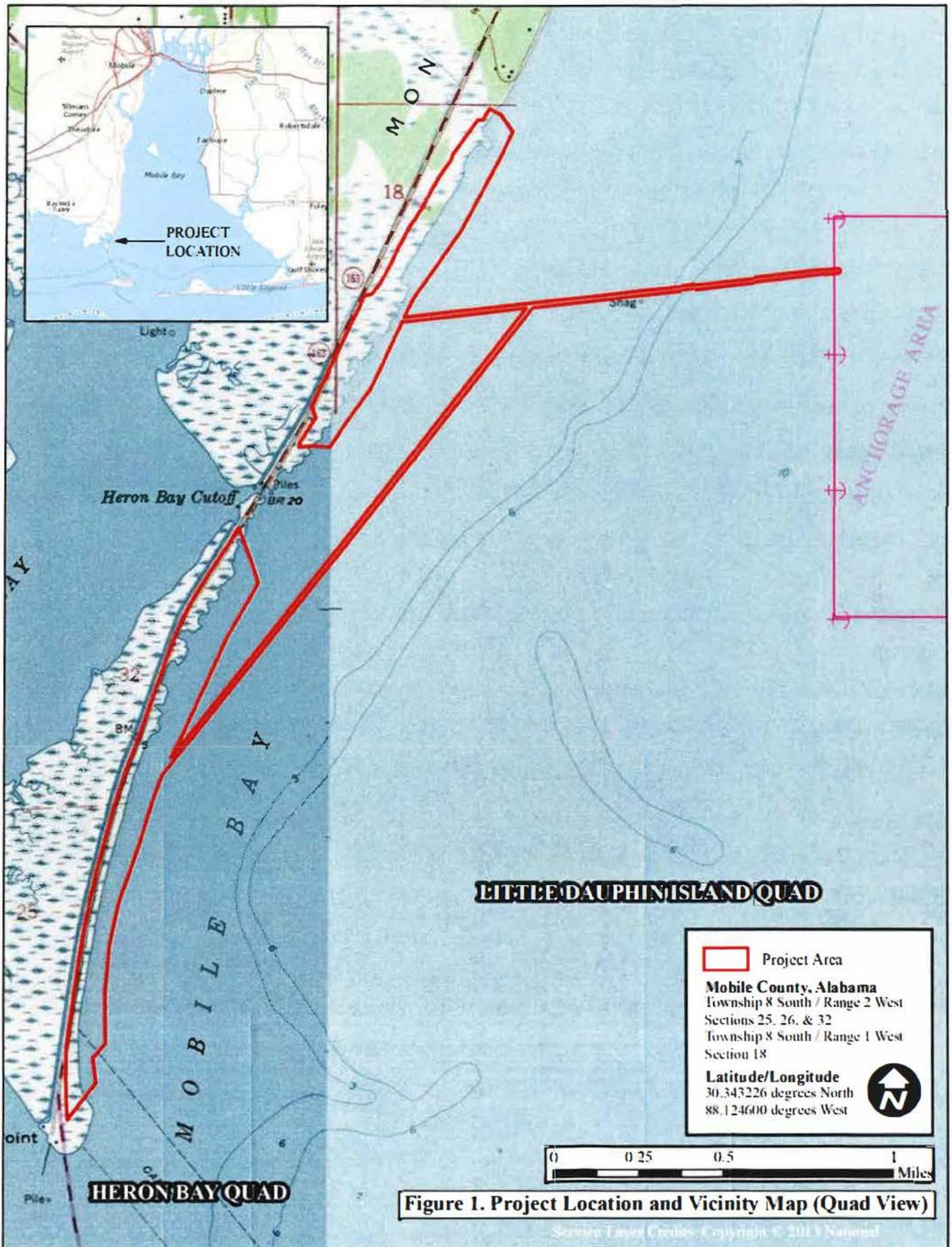
Correspondence concerning this notice should refer to Public Notice Number **SAM-2019-01004-DCH**, and should be directed to the project manager, Ms. Elizabeth A. Hamilton by e-mail at Elizabeth.A.Hamilton@usace.army.mil, or to the USACE, Mobile District, Regulatory Division, Attention: Ms. Elizabeth A. Hamilton, Post Office Box 2288, Mobile, Alabama 36628-0001. Copies of all comments should be furnished to the Alabama Department of Environmental Management at coastal@adem.alabama.gov, or sent to: Alabama Department of Environmental Management, Mobile Branch / Coastal

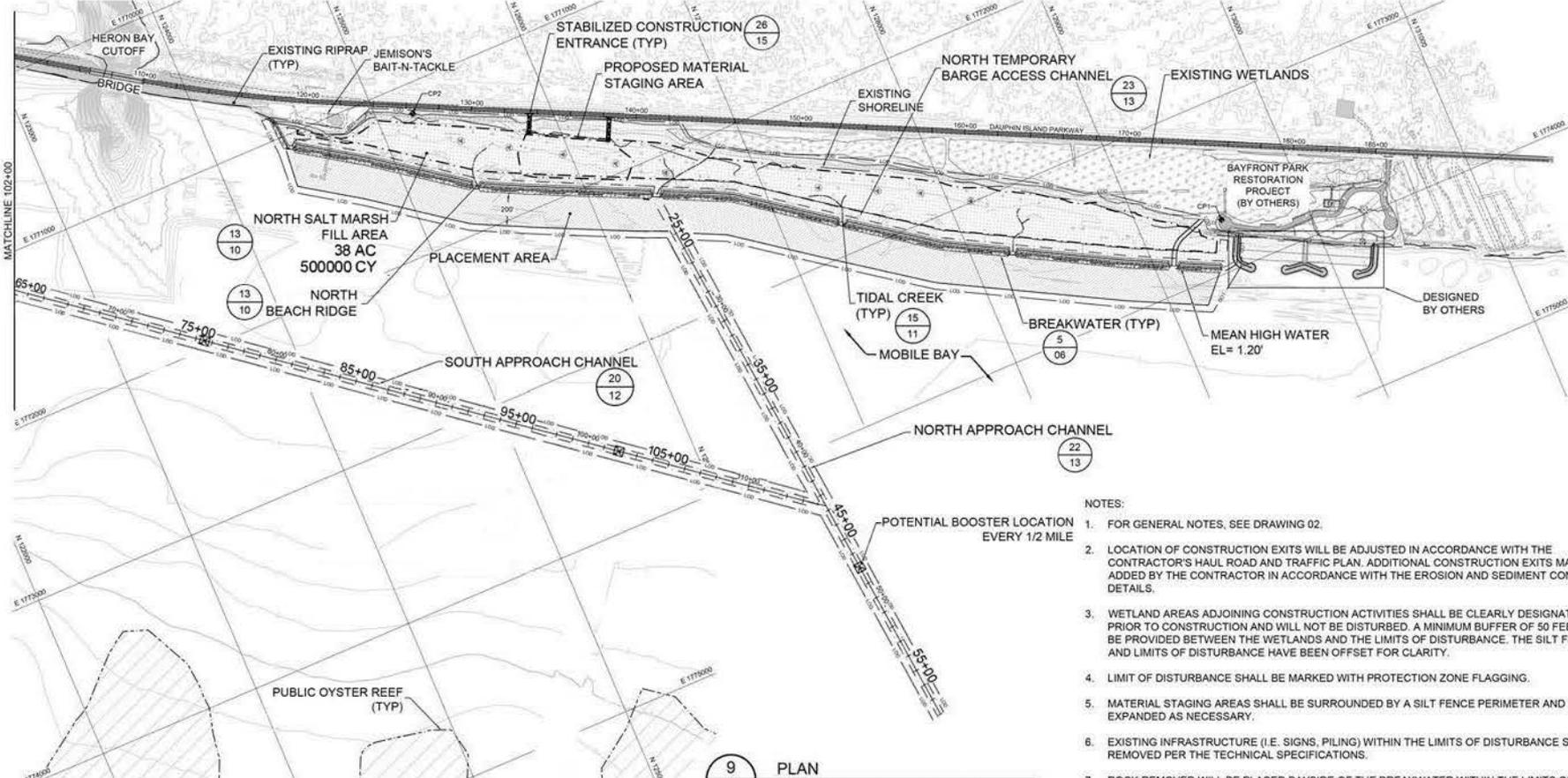
Section, 3664 Dauphin Street, Suite B, Mobile, Alabama 36608. **All comments should be received no later than 30 days from the date of this Public Notice.**

For additional information about our Regulatory Program, please visit our web site at www.sam.usace.army.mil/Missions/Regulatory.aspx.

MOBILE DISTRICT
U.S. Army Corps of Engineers

Attachments

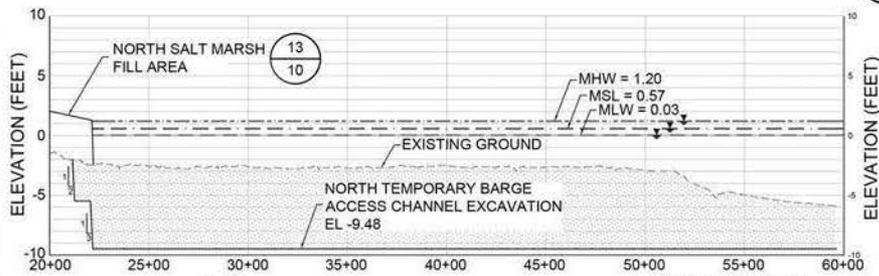




NOTES:

1. FOR GENERAL NOTES, SEE DRAWING 02.
2. LOCATION OF CONSTRUCTION EXITS WILL BE ADJUSTED IN ACCORDANCE WITH THE CONTRACTOR'S HAUL ROAD AND TRAFFIC PLAN. ADDITIONAL CONSTRUCTION EXITS MAY BE ADDED BY THE CONTRACTOR IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
3. WETLAND AREAS ADJOINING CONSTRUCTION ACTIVITIES SHALL BE CLEARLY DESIGNATED PRIOR TO CONSTRUCTION AND WILL NOT BE DISTURBED. A MINIMUM BUFFER OF 50 FEET SHALL BE PROVIDED BETWEEN THE WETLANDS AND THE LIMITS OF DISTURBANCE. THE SILT FENCE AND LIMITS OF DISTURBANCE HAVE BEEN OFFSET FOR CLARITY.
4. LIMIT OF DISTURBANCE SHALL BE MARKED WITH PROTECTION ZONE FLAGGING.
5. MATERIAL STAGING AREAS SHALL BE SURROUNDED BY A SILT FENCE PERIMETER AND EXPANDED AS NECESSARY.
6. EXISTING INFRASTRUCTURE (I.E. SIGNS, PILING) WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED PER THE TECHNICAL SPECIFICATIONS.
7. ROCK REMOVED WILL BE PLACED BAYSIDE OF THE BREAKWATER WITHIN THE LIMITS OF DISTURBANCE.
8. RESTORATION PHASE WILL BE COMPLETED WITHIN THREE YEARS OF CONSTRUCTION PHASE.

9
07 PLAN
NORTH SEGMENT RESTORATION
SCALE: 1" = 300'



22
13 PROFILE
NORTH APPROACH CHANNEL
SCALE: 1" = 300' (HORIZONTAL); 1" = 5' (VERTICAL)

STA 20+00 TO STA 60+00
FOR REVIEW PURPOSES ONLY
DRAFT PERMIT DRAWING - NOT FOR CONSTRUCTION

08/08/22	PERMIT PACKAGE REVISION	JFH	WB	
04/22/22	PERMIT PACKAGE REVISION	JFH	WB	
10/30/20	PERMIT PACKAGE REVISION	JFH	WB	
09/29/20	PERMIT PACKAGE SUBMITTAL	JFH	WB	
REV	DATE	DESCRIPTION	DRN	APP

31148 CAPITAL DRIVE, SUITE B
DAPHNE, AL 36528
TELEPHONE: 251 210 8330

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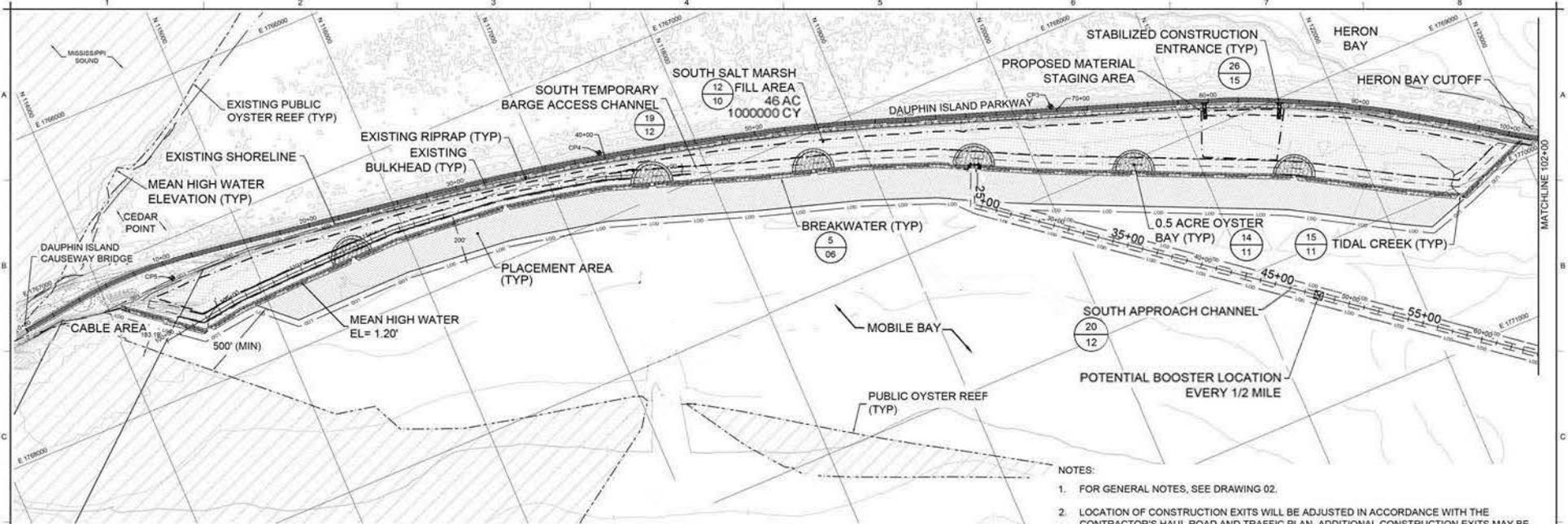
TITLE: **FIGURE 2A. NORTH SEGMENT RESTORATION**

PROJECT: **DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION**

SITE: **DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA**

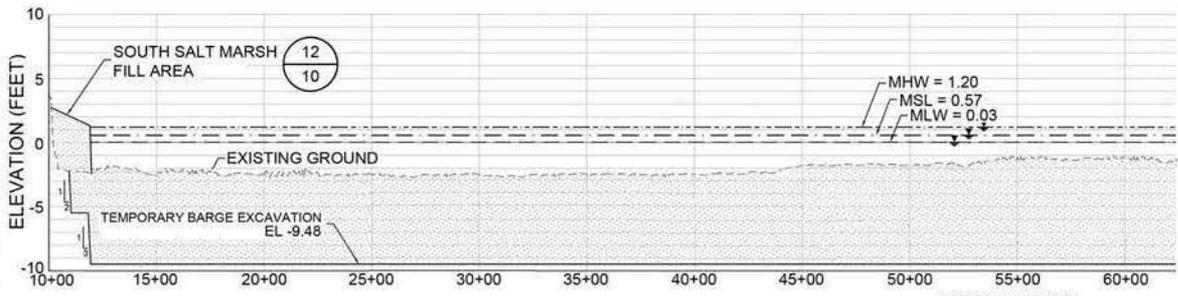
DESIGN BY:	AMT	DATE:	MAY 2022
DRAWN BY:	JFH	PROJECT NO.:	GK7115A
CHECKED BY:	WB	FILE:	GK7115A.1-10.DWG
REVIEWED BY:		DRAWING NO.:	
APPROVED BY:		DATE:	

Approach channel alignments modified by Barry A. Vittor & Associates, Inc. July 2022



8 PLAN
07 SOUTH SEGMENT RESTORATION
 SCALE: 1" = 300'

- NOTES:
1. FOR GENERAL NOTES, SEE DRAWING 02.
 2. LOCATION OF CONSTRUCTION EXITS WILL BE ADJUSTED IN ACCORDANCE WITH THE CONTRACTOR'S HAUL ROAD AND TRAFFIC PLAN. ADDITIONAL CONSTRUCTION EXITS MAY BE ADDED BY THE CONTRACTOR IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
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 4. LIMIT OF DISTURBANCE SHALL BE MARKED WITH PROTECTION ZONE FLAGGING.
 5. MATERIAL STAGING AREAS SHALL BE SURROUNDED BY A SILT FENCE PERIMETER AND EXPANDED AS NECESSARY.
 6. EXISTING INFRASTRUCTURE (I.E. SIGNS, PILING) WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED PER THE TECHNICAL SPECIFICATIONS.
 7. ROCK REMOVED WILL BE PLACED BAYSIDE OF THE BREAKWATER WITHIN THE LIMITS OF DISTURBANCE.
 8. RESTORATION PHASE WILL BE COMPLETED WITHIN THREE YEARS OF CONSTRUCTION PHASE.



20 PROFILE
12 SOUTH APPROACH CHANNEL
 SCALE: 1" = 300' (HORIZONTAL); 1" = 5' (VERTICAL)

ID	09/20/22 PERMIT PACKAGE REVISION	JFH	WB
C	04/22/23 PERMIT PACKAGE REVISION	JFH	WB
B	10/30/21 PERMIT PACKAGE REVISION	JFH	WB
A	05/29/21 PERMIT PACKAGE SUBMITTAL	JFH	WB
REV	DATE	DESCRIPTION	DRN

Geosyntec[®]
consultants

26148 CAPITAL DRIVE, SUITE B
DAPHNE, AL 36628
TELEPHONE: 251 281-6438

TITLE: FIGURE 2B. SOUTH SEGMENT RESTORATION

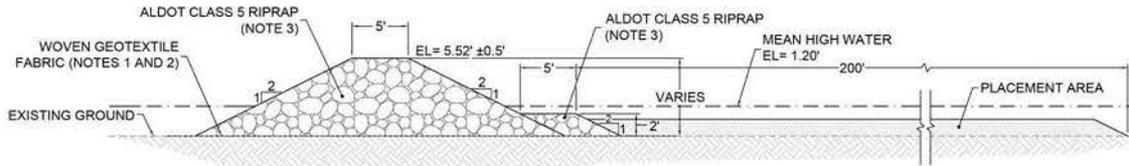
PROJECT: DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION

SITE: DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA

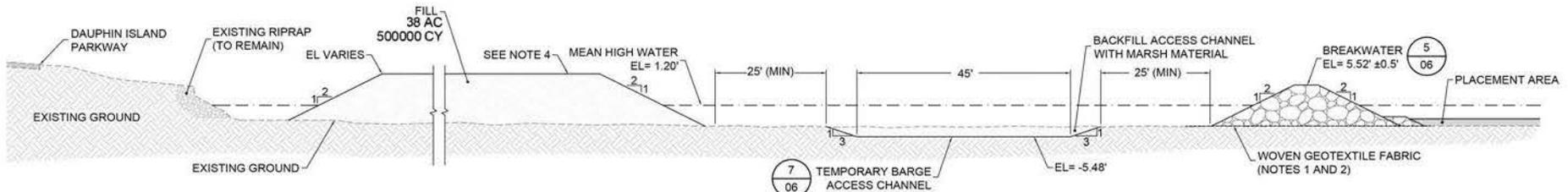
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DRAWN BY: JFH	PROJECT NO: GK1115A
CHECKED BY: WB	FILE: GK1115A.1-10.DWG
REVIEWED BY:	DRAWING NO:
APPROVED BY:	OF

Approach channel alignment modified by Barry A. Vittor & Associates, Inc. July 2022

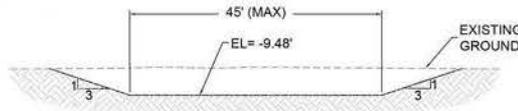
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DRAFT PERMIT DRAWING - NOT FOR CONSTRUCTION



5
06 DETAIL
BREAKWATER
SCALE: 1" = 5'



6
06 SECTION
SALT MARSH FILL AREA
SCALE: 1" = 10'



7
06 DETAIL
BARGE APPROACH CHANNEL
SCALE: 1" = 10'

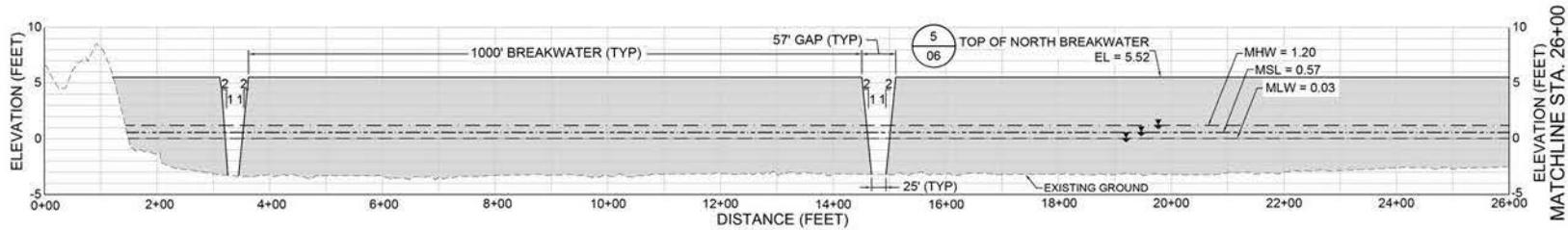
NOTES:

1. WOVEN GEOTEXTILE FABRIC SHALL EXTEND 5' TO BOTH SIDES OF BREAKWATER STRUCTURES.
2. SEE SPECIFICATION TS-300 WOVEN GEOTEXTILE FABRIC.
3. SEE SPECIFICATION TS-610 RIPRAP.
4. MARSH MATERIAL WILL BE PLACED WITHIN THE PLACEMENT AREA SEAWARD OF THE BREAKWATER ALIGNMENT AND ALLOWED TO MIGRATE TO THE SHORELINE RESTORATION AREA AND IF NECESSARY THE MARSH CREATION AREA WILL BE GRADED DURING THE RESTORATION PHASE

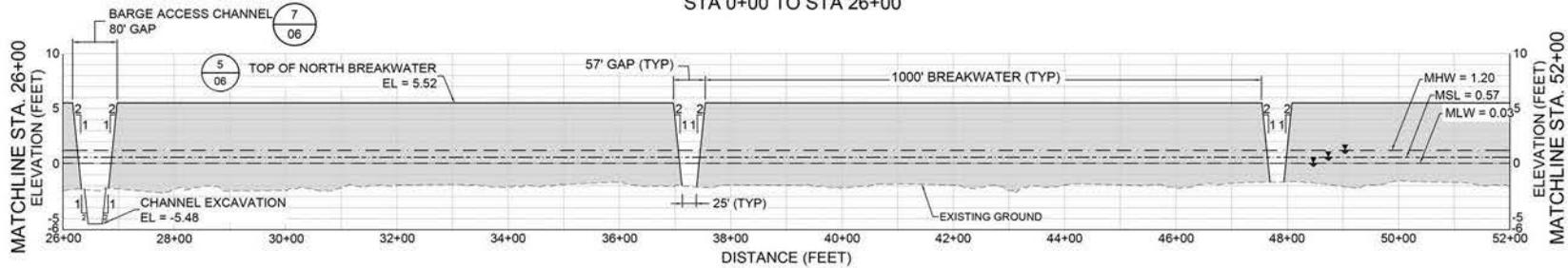
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A	09/28/20	PERMIT PACKAGE SUBMITTAL	JPH	WSB

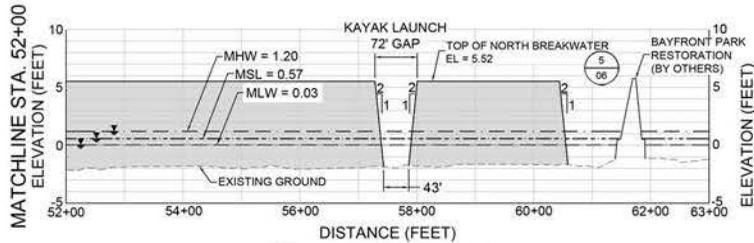
Geosyntec[®] consultants		26144 CAPITAL DRIVE, SUITE 6 DAPHNE, AL 36628 TELEPHONE: 251.284.6320	
		TITLE: CONSTRUCTION PHASE TYPICAL SECTIONS AND DETAILS PROJECT: DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION SITE: DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA	
DESIGN BY:	AMT	DATE:	MAY 2022
DRAWN BY:	JPH	PROJECT NO.:	GK7115A
CHECKED BY:	WB	FILE:	GK7115A.1-10.DWG
REVIEWED BY:		DRAWING NO.:	
APPROVED BY:		DATE:	



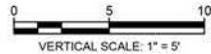
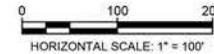
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STA 26+00 TO STA 52+00



STA 52+00 TO STA 63+00



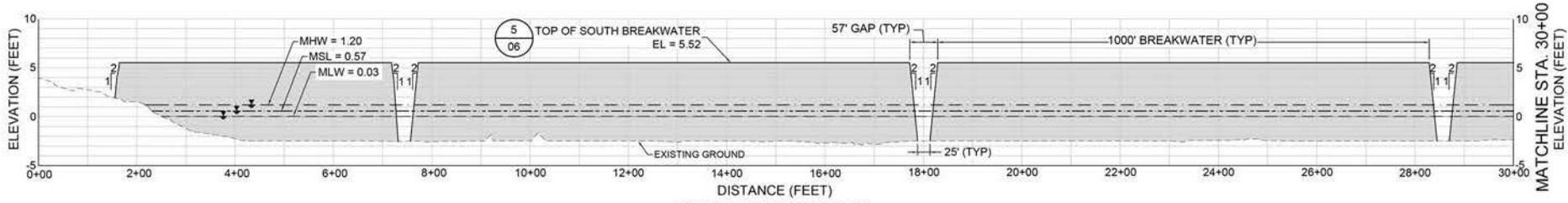
11
09

PROFILE
NORTH BREAKWATER RESTORATION
SCALE: 1" = 100' (HORIZONTAL); 1" = 5' (VERTICAL)

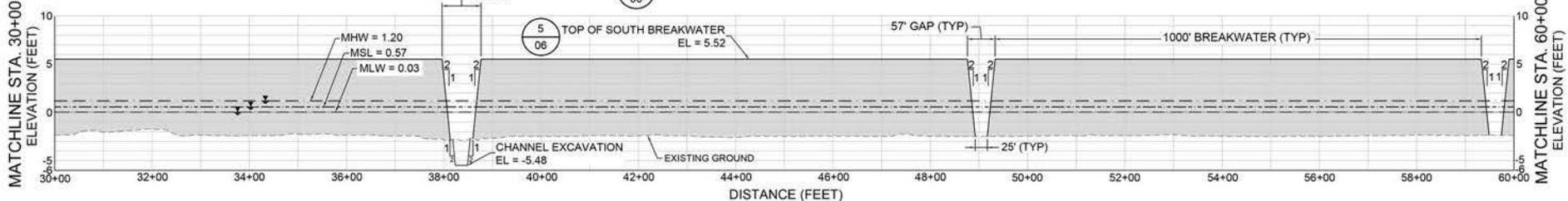
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B	10.30.20	PERMIT PACKAGE REVISION	JPH	WSB
A	09.29.20	PERMIT PACKAGE SUBMITTAL	JPH	WSB

Geosyntec[®] consultants		26148 CAPITAL DRIVE, SUITE E DAPHNE, AL 36626 TELEPHONE: 251-226-8320	
FIGURE 2D			
TITLE: RESTORATION PHASE NORTH BREAKWATER PROFILES			
PROJECT: DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION			
SITE: DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA			
DESIGN BY:	AMT	DATE:	MAY 2022
DRAWN BY:	JPH	PROJECT NO.:	GK7115A
CHECKED BY:	WSB	FILE:	GK7115A.1-10.DWG
REVIEWED BY:		DRAWING NO.:	
APPROVED BY:			

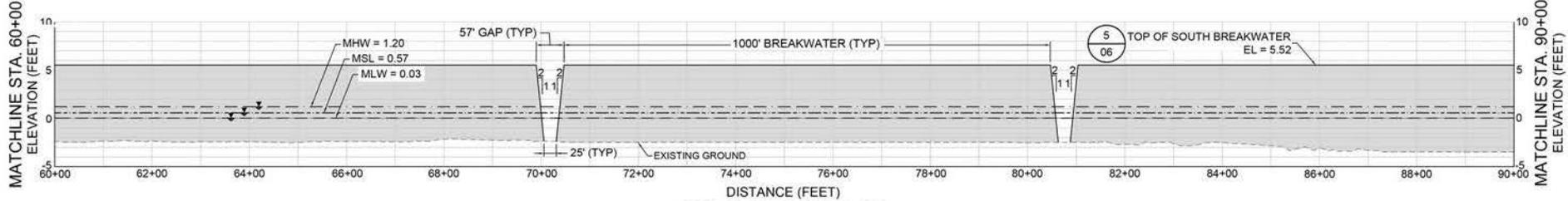
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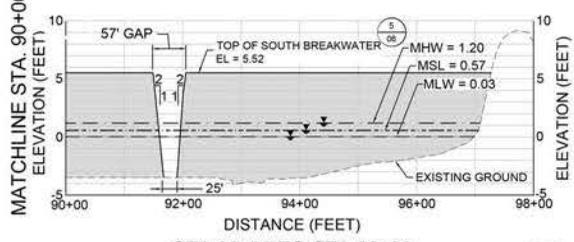
STA 0+00 TO STA 30+00



STA 30+00 TO STA 60+00



STA 60+00 TO STA 90+00



STA 90+00 TO STA 98+00

10
08 PROFILE
SOUTH BREAKWATER RESTORATION
SCALE: 1" = 100' (HORIZONTAL); 1" = 5' (VERTICAL)



D	05.20.22	PERMIT PACKAGE REVISION	JFH	WB
C	04.22.22	PERMIT PACKAGE REVISION	JFH	WB
B	10.30.20	PERMIT PACKAGE REVISION	JFH	WB
A	05.28.20	PERMIT PACKAGE SUBMITTAL	JFH	WB
REV	DATE	DESCRIPTION	DRN	APP

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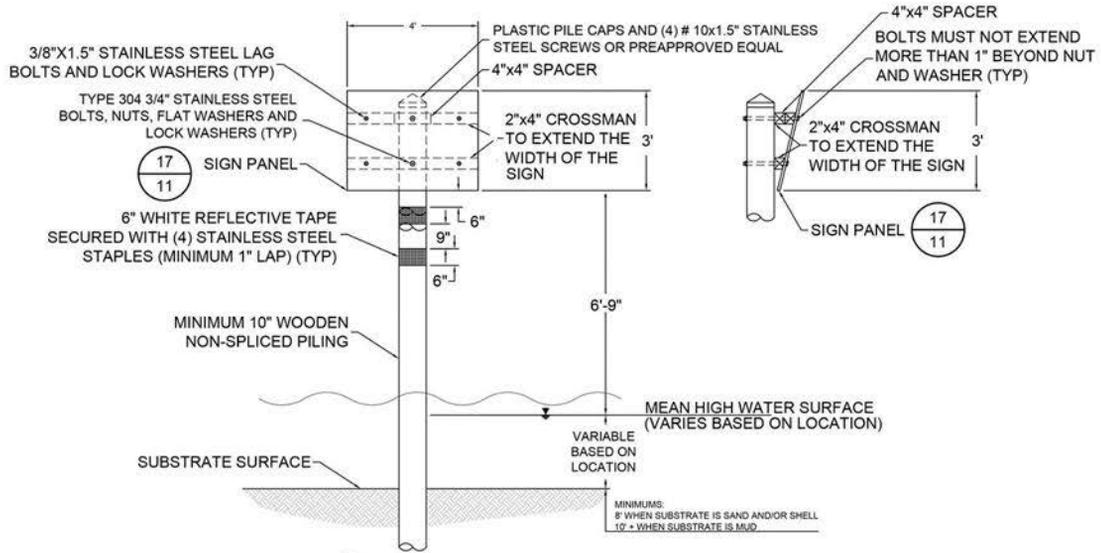
FIGURE 2E

TITLE: RESTORATION PHASE SOUTH BREAKWATER PROFILES
PROJECT: DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION
SITE: DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA

DESIGN BY: AMT DATE: MAY 2022
DRAWN BY: JFH PROJECT NO.: GK7115A
CHECKED BY: WB FILE: GK7115A.1-10.DWG
REVIEWED BY: DRAWING NO.:
APPROVED BY: OF:

26148 CAPITAL DRIVE, SUITE E
DAPHNE, AL 36628
TELEPHONE 251.266.6332

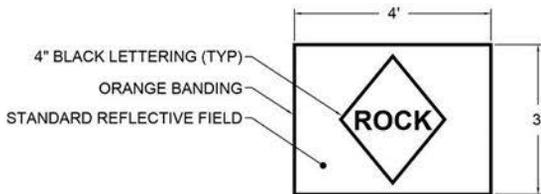
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16 DETAIL
11 WARNING SIGN
SCALE: 1" = 2'

NOTES:

1. WARNING SIGNS SHALL BE INSTALLED IN MOBILE PER US COAST GUARD REQUIREMENTS.
2. ALL PILINGS MUST BE PRESSURE TREATED LUMBER (2.50 CCA FOR SALTWATER APPLICATIONS; 0.80 CCA, 0.80 ACQ, OR 1.0 ACZA FOR FRESHWATER APPLICATIONS).
3. ALL FRAMING FOR SIGNBOARD MUST BE PRESSURE TREATED LUMBER (0.60 CCA, 0.60 ACQ, OR 0.60 ACZA FOR SALTWATER APPLICATIONS; 0.40 CCA, 0.40 ACQ, 0.40 ACZA, 0.21 CA OR 0.41 CBA FOR FRESHWATER APPLICATIONS).
4. BOLT HOLES BORED 1/8" LARGER THAN DIAMETER OF BOLT, ALL FASTENERS MUST BE VANDAL PROOF.
5. THE CONTRACTOR SHALL NOT IMPACT THE MESSAGE AREA OF REFLECTIVE SURFACES CROSSING TIMBERS.
6. PLASTIC PILE CAP SHALL BE EQUAL TO THE TOP OF EDGE OF (±6") AND SHALL FIT PILING NATURALLY WITHOUT HAVING TO MODIFY CAP IN ANY WAY.
7. SIGN(S) MUST BE CENTERED ON SINGLE PILE.
8. SIGNS SHALL BE LOCATED OFFSET 20' FROM ROCK STRUCTURE AND SPACED EVERY 50'.



17 DETAIL
11 SIGN PANEL
SCALE: NTS

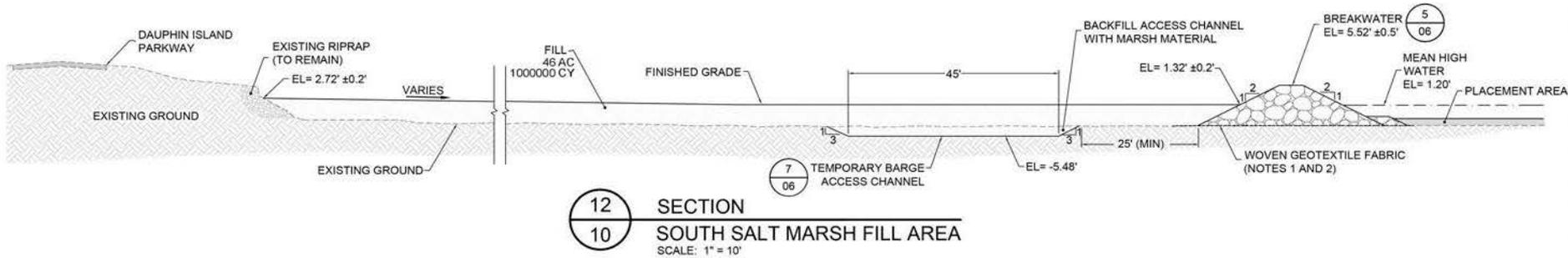
NOTES:

1. WATERWAY MARKER SIGNS SHALL BE BLACK LETTERING.
2. WARNING MESSAGE LETTERING SHALL BE CENTERED WITHIN SIGN PANEL.
3. THE CONTRACTOR SHALL NOT IMPACT THE MESSAGE AREA OR REFLECTIVE SURFACES OF THE SIGN WHEN DRILLING HOLES IN THE SIGNS, OR SPLIT THE ENDS OF CROSSING TIMBERS.

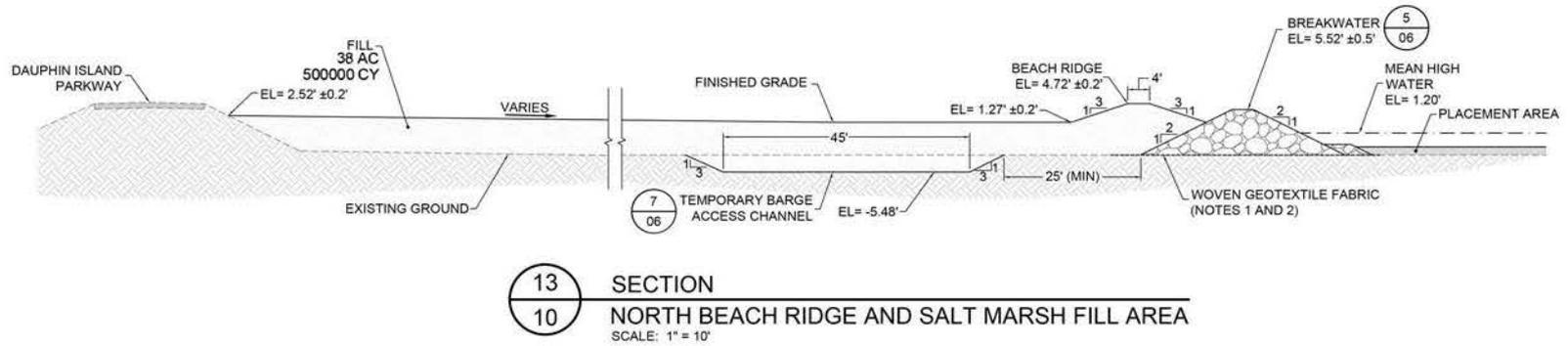
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REV	DATE	DESCRIPTION	DRN	APP
D	05.09.22	PERMIT PACKAGE REVISION	JFH	WB
C	04.22.22	PERMIT PACKAGE REVISION	JFH	WB
B	10.30.20	PERMIT PACKAGE REVISION	JFH	WB
A	05.29.20	PERMIT PACKAGE SUBMITTAL	JFH	WB

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FIGURE 2G			
TITLE: RESTORATION PHASE TYPICAL SECTIONS AND DETAILS II			
PROJECT: DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION			
SITE: DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA			
DESIGN BY:	AMT	DATE:	MAY 2022
DRAWN BY:	JFH	PROJECT NO.:	GK7115A
CHECKED BY:	WB	FILE:	GK7115A.1-10.DWG
REVIEWED BY:		DRAWING NO.:	
APPROVED BY:			OF



12
10 SECTION
SOUTH SALT MARSH FILL AREA
SCALE: 1" = 10'



13
10 SECTION
NORTH BEACH RIDGE AND SALT MARSH FILL AREA
SCALE: 1" = 10'

NOTES:

1. WOVEN GEOTEXTILE FABRIC SHALL EXTEND 5' TO BOTH SIDES OF BREAKWATER STRUCTURES.
2. SEE SPECIFICATION TS-300 WOVEN GEOTEXTILE FABRIC.
3. SEE SPECIFICATION TS-610 RIPRAP.
4. MARSH MATERIAL WILL BE PLACED WITHIN THE PLACEMENT AREA SEAWARD OF THE BREAKWATER ALIGNMENT AND ALLOWED TO MIGRATE TO THE SHORELINE RESTORATION AREA AND IF NECESSARY THE MARSH CREATION AREA WILL BE GRADED DURING THE RESTORATION PHASE.

0	05/08/22	PERMIT PACKAGE REVISION	JPH	WSB
C	04/22/22	PERMIT PACKAGE REVISION	JPH	WSB
B	10/30/20	PERMIT PACKAGE REVISION	JPH	WSB
A	05/29/20	PERMIT PACKAGE SUBMITTAL	JPH	WSB
REV	DATE	DESCRIPTION	BY	APP

FIGURE 2H Geosyntec[®] consultants

TITLE: RESTORATION PHASE TYPICAL SECTIONS AND DETAILS I

PROJECT: DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION

SITE: DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA

DESIGN BY: AMT DATE: MAY 2022

DRAWN BY: JPH PROJECT NO: GK7115A

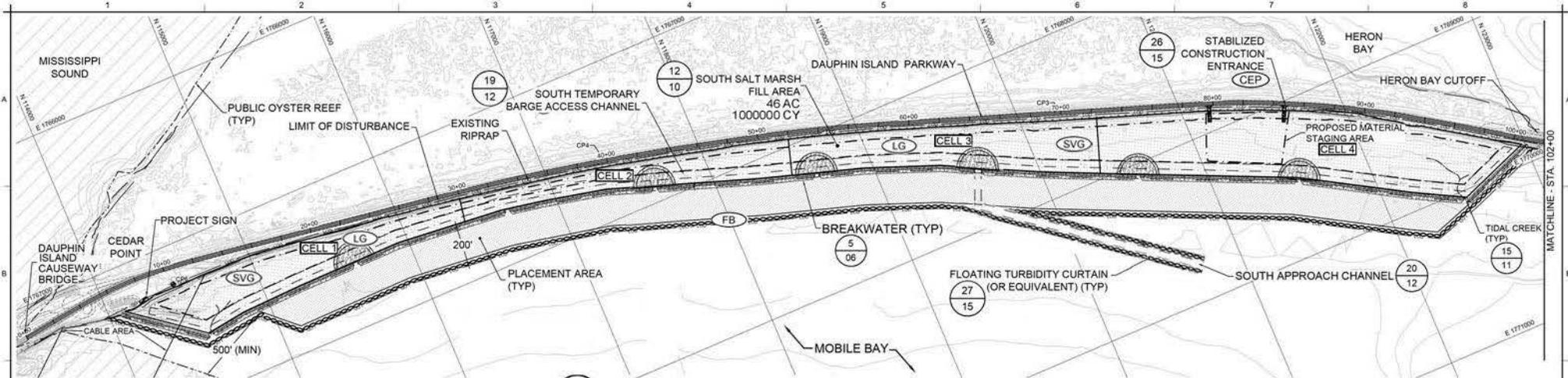
CHECKED BY: WSB FILE: GK7115A.1-10.DWG

REVIEWED BY: _____ DRAWING NO: _____

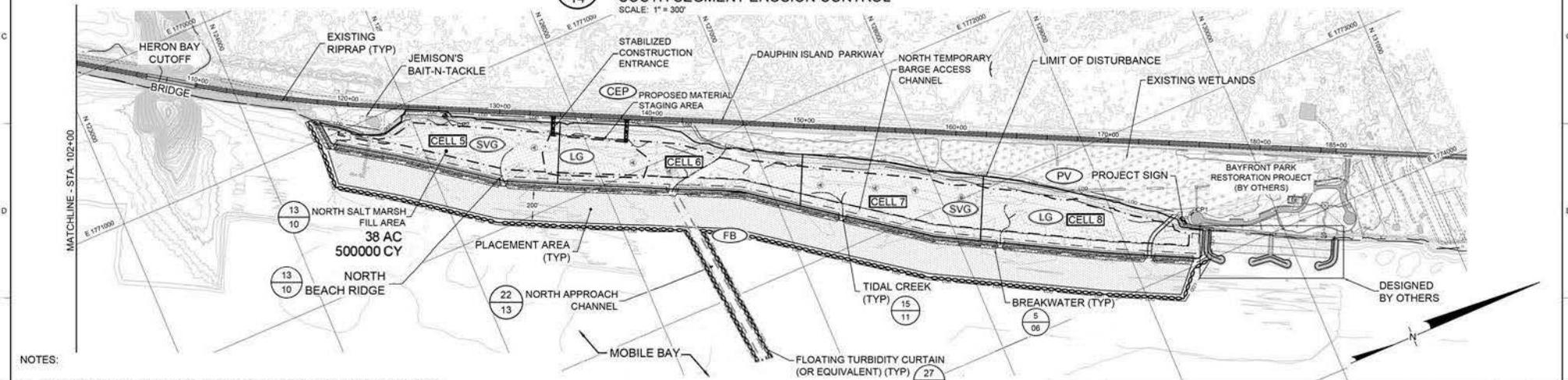
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24 PLAN
14 SOUTH SEGMENT EROSION CONTROL
SCALE: 1" = 300'



25 PLAN
14 NORTH SEGMENT EROSION CONTROL
SCALE: 1" = 300'

- NOTES:
- FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE DRAWING 02.
 - LOCATION OF CONSTRUCTION EXITS WILL BE ADJUSTED IN ACCORDANCE WITH THE CONTRACTOR'S HAUL ROAD AND TRAFFIC PLAN. ADDITIONAL CONSTRUCTION EXITS MAY BE ADDED BY THE CONTRACTOR IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
 - WETLAND AREAS ADJOINING CONSTRUCTION ACTIVITIES SHALL BE CLEARLY DESIGNATED PRIOR TO CONSTRUCTION AND WILL NOT BE DISTURBED. A MINIMUM BUFFER OF 50 FEET SHALL BE PROVIDED BETWEEN THE WETLANDS AND THE LIMITS OF DISTURBANCE. THE SILT FENCE AND LIMITS OF DISTURBANCE HAVE BEEN OFFSET FOR CLARITY.
 - LIMIT OF DISTURBANCE SHALL BE MARKED WITH PROTECTION ZONE FLAGGING.
 - MATERIAL STAGING AREAS SHALL BE SURROUNDED BY A SILT FENCE PERIMETER AND EXPANDED AS NECESSARY.
 - EXISTING INFRASTRUCTURE (I.E. SIGNS, PILING) WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED PER THE TECHNICAL SPECIFICATIONS.
 - ENHANCED TURBIDITY CURTAINS SHALL BE PLACED AROUND ANY WORK AREA LESS THAN 500' FROM THE PUBLIC OYSTER REEFS.

LEGEND

- CONSTRUCTION EXIT PAD
- FLOATING TURBIDITY BARRIER
- GROUND COVER PLANTING
- LAND GRADING
- PRESERVATION OF VEGETATION
- CONSTRUCTION CELL

SCALE: 1" = 300'

FOR REVIEW
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3	08.09.22	PERMIT PACKAGE REVISION	JFH	WB
2	04.22.22	PERMIT PACKAGE REVISION	JFH	WB
1	03.30.20	PERMIT PACKAGE REVISION	JFH	WB
A	05.25.20	PERMIT PACKAGE SUBMITTAL	JFH	WB
REV	DATE	DESCRIPTION	DRN	APP

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FIGURE A1

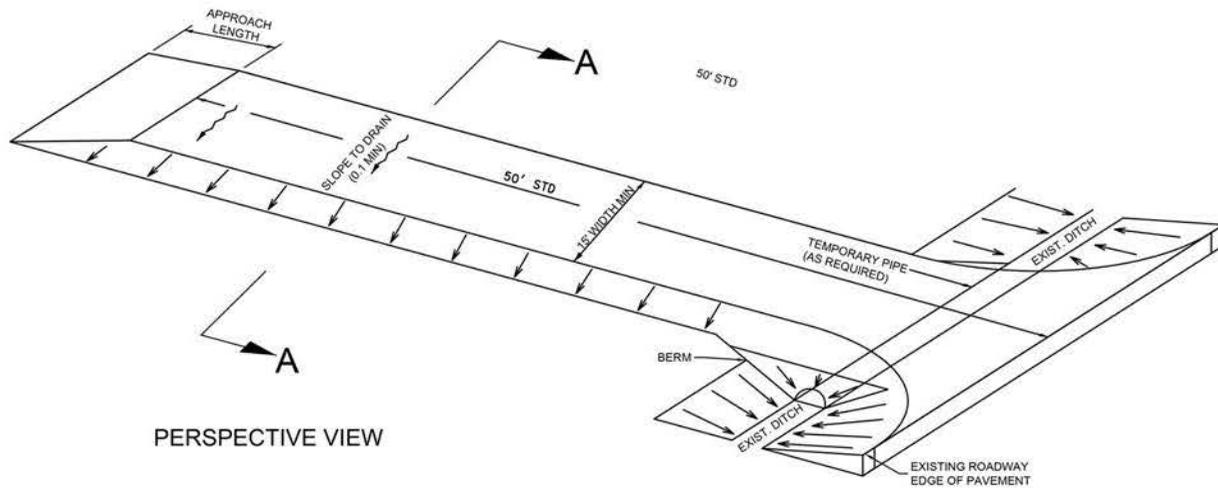
TITLE: **EROSION, SEDIMENTATION, AND TURBIDITY CONTROL PLAN**

PROJECT: **DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION**

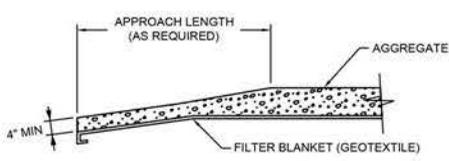
SITE: **DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA**

DESIGN BY:	AMT	DATE:	MAY 2022
DRAWN BY:	JFH	PROJECT NO.:	GK7115A
CHECKED BY:	WB	FILE:	GK7115A-1-10.DWG
REVIEWED BY:		DRAWING NO.:	
APPROVED BY:			

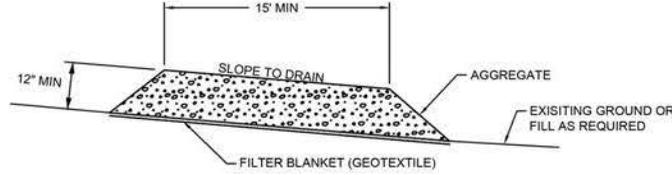
Approach channel alignments modified by Barry A. Vittor & Associates, Inc. July 2022



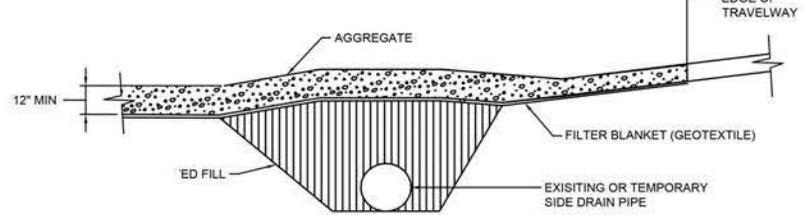
PERSPECTIVE VIEW



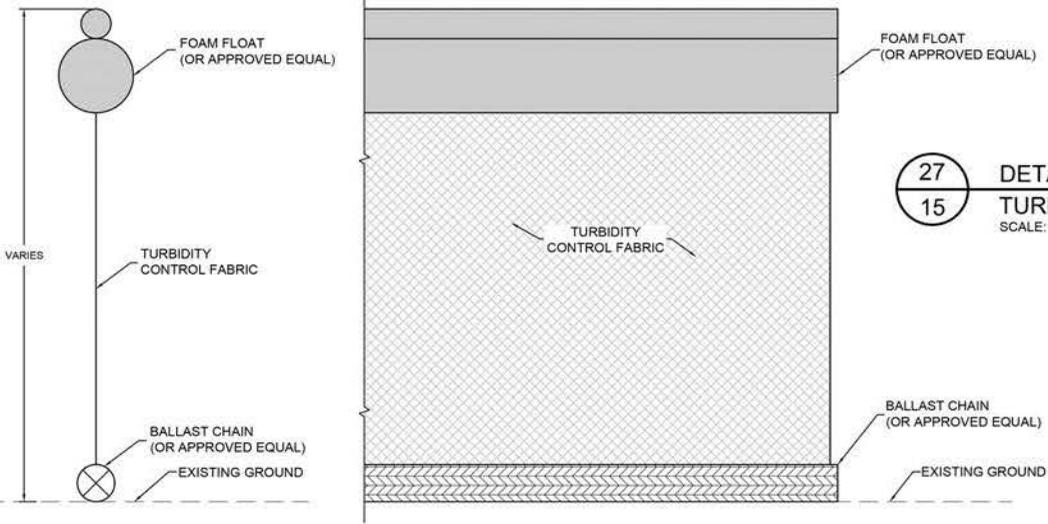
TRANSITION DETAIL



SECTION A-A



RURAL CONNECTION DETAIL



27
15
DETAIL
TURBIDITY CONTROL DETAIL
SCALE: NTS

NOTES:

1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE EROSION SEDIMENT CONTROL SHEETS OR AS APPROVED BY THE ENGINEER BASED ON SAFETY, ECONOMY AND CONSTRUCTION SEQUENCE. THESE ENTRANCES ARE POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFFSITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE PROJECT SHALL BE DIRECTED THRU THE STABILIZED ENTRANCE, BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STABILIZED ENTRANCE.
2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ITS USE.
3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
4. AGGREGATES SHALL BE ALOD SIZE #1. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.
5. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION TO PREVENT OFFSITE TRACKING. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE RINSED WHEN NECESSARY TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STABILIZED ENTRANCE MAY BE REQUIRED TO LIMIT THE MUD TRACKED.
6. THE NOMINAL SIZE OF A STANDARD STABILIZED CONSTRUCTION ENTRANCE IS 15' X 50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXITING VEHICLES WARRANT, A 30' WIDTH MAY BE USED IF APPROVED BY THE ENGINEER.

D	02.20.22	PERMIT PACKAGE REVISION	JFH	WB
C	04.22.22	PERMIT PACKAGE REVISION	JFH	WB
B	10.30.20	PERMIT PACKAGE REVISION	JFH	WB
A	05.29.20	PERMIT PACKAGE SUBMITTAL	JFH	WB
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FIGURE A2

TITLE: **EROSION, SEDIMENTATION, AND TURBIDITY CONTROL PLAN**

PROJECT: **DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION**

SITE: **DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA**

DESIGNED BY:	AMT	DATE:	MAY 2022
DRAWN BY:	JFH	PROJECT NO.:	GK7115A
CHECKED BY:	WB	FILE:	GK7115A.1-10.DWG
REVIEWED BY:		DRAWING NO.:	
APPROVED BY:			

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LINETYPE LEGEND

	EXISTING GROUND CONTOUR (FEET) (NOTE 5)
	FINISHED GRADE CONTOUR (FEET) (NOTE 5)
	EXISTING BULKHEAD
	EDGE OF EXISTING ROAD
	EXISTING GROUND (NOTE 5)
	EXISTING SHORELINE
	NON-WOVEN GEOTEXTILE FABRIC
	LIMIT OF DISTURBANCE (NOTE 6)
	MATERIAL STAGING AREA
	MEAN HIGH WATER ELEVATION
	MEAN LOW WATER ELEVATION
	MEAN SEA LEVEL ELEVATION
	PROPOSED GRADE
	SILT FENCE
	TEMPORARY BARGE ACCESS
	TURBIDITY CURTAIN

SYMBOL LEGEND

	CONTROL POINT
	EXISTING PILING
	EXISTING POWER POLE
	EXISTING SIGN
	EXISTING TRAILER OR BUILDING
	SIGN
	SLOPE GRADE
	SLOPE INDICATOR
	SLOPE LABEL
	STABILIZED CONSTRUCTION ENTRANCE
	TIDAL CREEK
	WATER SURFACE

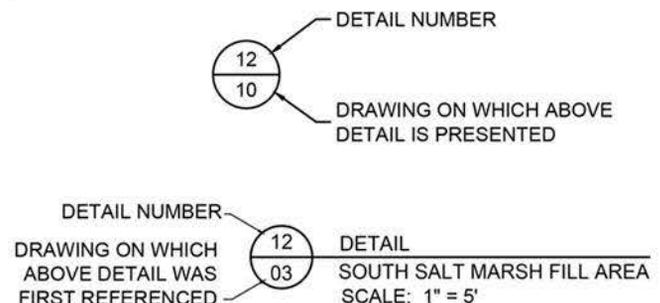
HATCH PATTERN LEGEND

	EXISTING ASPHALT ROAD
	EXISTING GROUND
	EXISTING PUBLIC OYSTER REEF PROTECTION AREA
	EXISTING RIPRAP
	EXISTING WETLANDS (VITTOR, 2019)
	POTENTIAL THIN LAYER PLACEMENT AREA
	RIPRAP
	SALT MARSH / FILL AREA

ABBREVIATIONS

AC	ACRES
ALDOT	ALABAMA DEPARTMENT OF TRANSPORTATION
APP	APPROVED BY
CL	CENTERLINE
CP	CONTROL POINT
DRN	DRAWN BY
DWG	DRAWING
EL	ELEVATION
ESC	EROSION AND SEDIMENT CONTROL
FT	FEET
H:V	HORIZONTAL TO VERTICAL LENGTH RATIO FOR A SLOPE
HWY	HIGHWAY
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
N	NORTH OR NORTHING
NAD	NORTH AMERICAN DATUM
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NO.	NUMBER
NTS	NOT TO SCALE
%	PERCENT OR PERCENTILE
PROJ	PROJECT
REV	REVISION
S	SOUTH
STA	STATION
TYP	TYPICAL
YR	YEAR

DETAIL AND SECTION IDENTIFICATION LEGEND



EXAMPLE: DETAIL NO. 12 WHICH IS PRESENTED ON DRAWING NO. 10 WAS FIRST REFERENCED ON DRAWING NO. 03.

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TITLE:	LEGENDS AND ABBREVIATIONS		
PROJECT: T:	DAUPHIN ISLAND CAUSEWAY SHORELINE RESTORATION		
SITE:	DAUPHIN ISLAND PARKWAY MOBILE COUNTY, ALABAMA		
DESIGN BY:	AMT	DATE:	MAY 2022