TO WHOM IT MAY CONCERN: This District has received an application for a Department of the Army (DA) 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: Alabama State Port Authority  
Attention: Mr. Robert Harris  
250 North Water Street Mobile,  
Alabama 36602

AGENT: Moffatt & Nichol  
Attention: Ms. Mary Beth Sullivan  
11 North Water Street, Suite 20220  
Mobile, Alabama 36606

LOCATION: The proposed project is located within Upper Mobile Bay; approximately 1.5 miles south of US Highway 90/98 causeway; at Latitude 30.646906°, Longitude -88.000935°; Mobile, Mobile County, Alabama.

PROJECT PURPOSE: The basic project purpose is to establish a large-scale, long-term beneficial use (BU) dredged-material placement area to create wetland habitat. The overall project purpose is to construct multiple individual Wetland Creation Cells (WCC), as needed, within three (3) phased Wetland Creation Areas (WCA) in order to use material dredged from the Upper Mobile Bay area to create up to 1,200 acres of intertidal wetland habitat in Upper Mobile Bay.

PROPOSED WORK: The applicant proposes the phased construction of a 1,200-acre beneficial used dredged-material placement (wetland creation) area in Upper Mobile Bay over a 20-year period, dependent on dredged material volumes and timing of maintenance dredging activities. The completed project would allow for the overall placement of up to 9.5 million cubic yards of material dredged from Upper Mobile Bay area within three (3) fully-enclosed WCA containment dikes protected by rock breakwaters or revetment at the south boundary of the project area progressing to the north boundary, as needed, into softer...
containment structures. Three (3) types of shoreline protection and external containment structures are proposed, dependent on the controlling environmental conditions: Type I includes a rock breakwater with a maximum crest elevation of +4 feet NAVD88, a marsh buffer, and an internal earthen containment dike with a crest elevation of +6 feet NAVD88. Type II includes a sand containment dike protected by a rock revetment, with a crest elevation of +6 feet NAVD88. Type III includes a sand containment dike with a fortified core of constructed geotubes and a fronting beach, with a maximum crest elevation of +6 feet NAVD88. Project design elevations may be adjusted as the project is implemented, to account for sea level rise.

Individual WCC would be constructed within the larger WCAs to provide manageable-sized areas for material placement and targeted wetland habitat creation. Each cell is anticipated to be 40-80 acres in size. Construction of internal containment structures would proceed as existing WCC approach capacity to allow for continued dredge-material placement. Material obtained for construction of the internal containment dikes would be hydraulically or mechanically dredged within individual WCC or sourced from existing upland dredge placement areas for upper Mobile Harbor and transported by hopper barge to the WCA. If in-situ material is utilized, internal borrow areas would be filled over time and incorporated into habitat creation activities for each WCC.

Habitat creation would include the excavation of tidal creeks, tidal ponds, embayments, low- and high-marsh features, and scrub shrub mounds. Dredged material placed for marsh creation would be placed by hydraulic dredge lines. Dredged material construction fill elevation would not exceed +4 feet NAVD88 to accommodate settling to the wetland design target elevation of +1 feet NAVD88. Within the initial five years, approximately 100 acres of wetlands would be created through the placement of dredged material. Approximately 40-80 acres of wetlands would be created each following year, dependent on the volumes of material dredged by the Alabama State Port Authority, the U.S. Army Corps of Engineers, or other entities. Fill impacts for each area of the overall project are described in Table 1 below.

A corridor for vessels and equipment would be established to access the project site. The corridor would use areas where the minimal water depth is met for vessel access. Impacts to the water bottom are not anticipated for the project corridor. A Project Access Facility at the project site for equipment and personnel access and material offloading for use over the lifespan of the project would be constructed. This activity would require installation of steel sheet piles for construction of a bulkhead, and timber piles for mooring and berthing activities. The Project Access Facility would be constructed to a maximum elevation of +6 feet NAVD88 and be approximately 30 feet wide and 100 feet long. The Project Access Facility would intersect the external containment dike system to provide access throughout the project site.

Corridors for dredge pipelines would be established between the federal navigation channel and the project site. The corridor would include crossing(s) for the Mobile Ship Channel and would be routed through open water along a route that minimizes navigation impacts and impacts to benthic habitat, and avoids cultural resource and submerged aquatic vegetation (SAV) areas. During each dredge cycle, the dredge pipeline would be temporarily placed within the pipeline corridor. All dredged materials used for the project would be determined suitable for open-water disposal in accordance with the Southeast Regional Implementation

Table 1: Proposed Project Impacts

<table>
<thead>
<tr>
<th>EXCAVATIONS AND FILL SUMMARY</th>
<th>VOLUME (cubic yards)</th>
<th>AREA (square feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXCAVATIONS - EXTERNAL CONTAINMENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH WCA</td>
<td>974,156</td>
<td>2,630,221</td>
</tr>
<tr>
<td>MIDDLE WCA</td>
<td>659,716</td>
<td>1,781,234</td>
</tr>
<tr>
<td>NORTH WCA</td>
<td>606,240</td>
<td>1,636,849</td>
</tr>
<tr>
<td><strong>EXCAVATIONS - INTERNAL CONTAINMENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH WCA</td>
<td>349,744</td>
<td>944,309</td>
</tr>
<tr>
<td>MIDDLE WCA</td>
<td>293,829</td>
<td>793,339</td>
</tr>
<tr>
<td>NORTH WCA</td>
<td>214,799</td>
<td>579,958</td>
</tr>
<tr>
<td><strong>FILL - DREDGE FILL FOR EXTERNAL CONTAINMENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH WCA</td>
<td>487,078</td>
<td>1,262,836</td>
</tr>
<tr>
<td>MIDDLE WCA</td>
<td>329,858</td>
<td>1,027,635</td>
</tr>
<tr>
<td>NORTH WCA</td>
<td>303,120</td>
<td>818,425</td>
</tr>
<tr>
<td><strong>FILL - DREDGE FILL FOR INTERNAL CONTAINMENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH WCA</td>
<td>174,872</td>
<td>770,232</td>
</tr>
<tr>
<td>MIDDLE WCA</td>
<td>146,915</td>
<td>762,368</td>
</tr>
<tr>
<td>NORTH WCA</td>
<td>107,400</td>
<td>618,338</td>
</tr>
<tr>
<td><strong>FILL - RIP RAP FOR EXTERNAL CONTAINMENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH WCA</td>
<td>493,154</td>
<td>2,020,538</td>
</tr>
<tr>
<td>MIDDLE WCA</td>
<td>296,806</td>
<td>1,644,216</td>
</tr>
<tr>
<td>NORTH WCA</td>
<td>272,748</td>
<td>1,309,479</td>
</tr>
<tr>
<td><strong>FILL - DREDGE FILL FOR WETLAND CREATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTH WCA</td>
<td>3,772,883</td>
<td>16,411,955</td>
</tr>
<tr>
<td>MIDDLE WCA</td>
<td>3,281,707</td>
<td>14,992,569</td>
</tr>
<tr>
<td>NORTH WCA</td>
<td>2,410,898</td>
<td>13,071,136</td>
</tr>
</tbody>
</table>

**AVOIDANCE & MINIMIZATION:** The applicant has indicated that avoidance measures such as the implementation of an exclusion zone and a soft start procedure (ramping up) in order to alert nearby sensitive species and allow them to move out of the area prior to construction activities could be used to minimize potential noise impacts to marine mammals. Additionally, the applicant has indicated that potential cultural resources have been identified and will be avoided prior to and during construction. The applicant has surveyed and avoided areas containing SAV and/or seagrass. The U.S. Army Corps of Engineers (USACE) has not
determined the adequacy of the applicant's avoidance and minimization efforts for the proposed activity.

**MITIGATION:** The provision of compensatory mitigation has not been proposed. The applicant has stated that while the project would result in the loss of 1,200 acres of estuarine water column and water bottoms, the ecological benefits of creating 1,200 acres of tidal marsh would offset the loss of functions and services provided by this resource.

**WATER QUALITY / COASTAL ZONE MANAGEMENT:** The applicant will apply for certification from the State of Alabama in accordance with Section 401(a)(1) of the Clean Water Act, as well as Coastal Zone Management (CZM) consistency certification in accordance with the Alabama Coastal Zone 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) within an established reasonable period of time.

**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 undertaking in waters of the United States, which includes the footprint of the proposed dredge and fill areas that would be disturbed by construction of the project. The National Register of Historic Places will be consulted for properties listed, or eligible for listing, in the National Register, which are known to exist and would be affected by the proposed work. The Mobile District is seeking comments regarding the existence, or the potential for existence, of significant cultural and historic properties within the permit area. The applicant has provided a Phase I Cultural Resources Assessment of the project site. At this time, the USACE, Mobile District has made no determination regarding potential effects of the project on cultural/historic resources. Further coordination with the State Historic Preservation Officer and/or federally-recognized American Indian tribes will be performed as determined to be appropriate.

In addition, we are seeking comments from local historical societies, museums, universities, the U.S. Department of the Interior, National Park Service, Division of Archeological Services and concerned citizens regarding the existence or the potential for existence of significant cultural and historic properties within the permit area.

**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 permanently impact 1,200 acres of estuarine water column and water bottoms. The applicant has provided an EFH Assessment and Marsh Planting and Monitoring Plan to the USACE, Mobile District which will be coordinated with the National Marine Fisheries Service (NMFS) as part of this consultation. Our initial determination is that the proposed action may adversely affect EFH or federally managed fisheries. However, such effects are mitigated through the avoidance of SAV/seagrass and the overall ecological benefits to creation of 1,200 acres of tidal marsh within Upper Mobile Bay. Our final
determination relative to project impacts and the need for mitigative measures is subject to review by and coordination with the National Marine Fisheries Service (NMFS).

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 federally-listed species are known or expected to occur within the project area: Alabama red-bellied turtle (E), West Indian manatee (T), wood stork (T), green sea turtle (T), Kemp’s Ridley sea turtle (E), Loggerhead sea turtle (T), and Gulf sturgeon (T). There is no designated critical habitat within the project action area. At this time, the USACE, Mobile District has made no determination with regard to potential effects of the project on the above-listed species. Further coordination with the U.S. Fish and Wildlife Service (USFWS) and NMFS will be performed as determined to be appropriate.

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-2021-00246-DCH, and should be directed to the District Engineer, Mobile District, Regulatory
Division, Attention: Mr. Dylan C. Hendrix, Post Office Box 2288, Mobile, Alabama 36628-0001, or by e-mail at dylan.c.hendrix@usace.army.mil, or (251) 694-3772. Copies of all comments should be furnished to the ADEM 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
INDEX OF DRAWINGS

<table>
<thead>
<tr>
<th>SHEET INDEX</th>
<th>SHEET</th>
<th>DRAWING TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G-001</td>
<td>TITLE SHEET</td>
</tr>
<tr>
<td>2</td>
<td>G-002</td>
<td>GENERAL NOTES</td>
</tr>
<tr>
<td>3</td>
<td>V-101</td>
<td>GENERAL CONDITIONS</td>
</tr>
<tr>
<td>4</td>
<td>V-102</td>
<td>ENVIRONMENTAL AVOIDANCE PLAN</td>
</tr>
<tr>
<td>5</td>
<td>B-101</td>
<td>GENERAL SOIL BORING LOGS PLAN</td>
</tr>
<tr>
<td>6</td>
<td>C-101</td>
<td>WETLAND CREATION SITE LAYOUT</td>
</tr>
<tr>
<td>7</td>
<td>C-102</td>
<td>CONCEPTUAL WETLAND CREATION CELL DETAIL</td>
</tr>
<tr>
<td>8</td>
<td>C-301</td>
<td>WETLAND CREATION AREA TYPICAL SECTION</td>
</tr>
<tr>
<td>9</td>
<td>C-320</td>
<td>CONTAINMENT DIKE TYPICAL SECTIONS (1 OF 2)</td>
</tr>
<tr>
<td>10</td>
<td>C-321</td>
<td>CONTAINMENT DIKE TYPICAL SECTIONS (2 OF 2)</td>
</tr>
<tr>
<td>11</td>
<td>C-501</td>
<td>TEMPORARY WARNING SIGN DETAIL</td>
</tr>
<tr>
<td>12</td>
<td>C-502</td>
<td>TURBIDITY CURTAIN DETAIL</td>
</tr>
<tr>
<td>13</td>
<td>C-503</td>
<td>BOX WEIR DETAIL</td>
</tr>
<tr>
<td>14</td>
<td>C-601</td>
<td>COORDINATE TABLES</td>
</tr>
</tbody>
</table>

NOT TO BE USED FOR CONSTRUCTION
ABBREVIATIONS

TIDAL DATUM INFORMATION:

AC ACRES
WATER LEVELS (FEET)
WATER LEVELS (FEET)

1. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR _______________________________+1.16'

2. BACKGROUND AERIAL IMAGERY COURTESY OF MICROSOFT BING, 2021.

3. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A COMMUNICATION PLAN TO THE OWNER AND THE _______________________________-0.44'

4. HYDRAULIC AND/OR MECHANICAL DREDGING AND PLACEMENT IS PROPOSED FOR CONTAINMENT _______________________________-0.53'

5. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE OR STORE WITHIN _________________.

6. CONTAINMENT DIKES TO CONSIST OF EITHER TYPE I, TYPE II, OR TYPE III CONTAINMENT AS SHOWN _________________.

7. TIDAL CHANNELS SHALL BE SIZED TO PROVIDE HYDROLOGIC CONNECTION BETWEEN WETLANDS _________________.

8. INITIAL CONSTRUCTION SHALL CONSIST OF EXTERNAL CONTAINMENT FOR AN APPROXIMATELY _________________.

9. WARNING SIGNS AND LIGHTS SHALL BE INSTALLED AS NECESSARY PER UNITED STATES COAST _________________.

10. WETLAND CREATION SITE SHALL NOT FILL WITHIN ENVIRONMENTALLY SENSITIVE AREAS INCLUDING _________________.

GENERAL NOTES

1. THESE PERMIT DRAWINGS SHOW THE 1,200-ACRE CONCEPTUAL WETLAND CREATION SITE LAYOUT 250 N. WATER STREET

2. REQUESTING PERMIT FOR A 1,200-ACRE WETLAND CREATION SITE. THE WETLAND CREATION SITE IS 11 N. WATER STREET,

3. TIDAL CHANNELS SHALL BE SIZED TO PROVIDE HYDROLOGIC CONNECTION BETWEEN WETLANDS 2103315

4. INITIAL CONSTRUCTION SHALL CONSIST OF EXTERNAL CONTAINMENT FOR AN APPROXIMATELY 20214:02PM by ESPINO, GUILLERMO

5. THE REMAINING PORTION OF THE SOUTHERN WETLAND CREATION AREA, AS WELL AS THE MIDDLE _______________________


7. WARNING SIGNS AND MARKERS.

8. THESE DRAWINGS.

DIA DIAMETER
ELEV ELEVATION
EXG EXAGGERATION
IN INCH
LB POUND
MHW MEAN HIGH WATER
MLLW
MLW
MLW
NAD 83 NORTH AMERICAN DATUM OF 1983
PFIP PROJECT FEATURE INFLECTION POINT
PFW PROJECT FEATURES W/ DIRECTION
SURVEY FEET.

1. INTERNAL IN-SITU BORROW AREA EXCAVATION VOLUME IS THE CUT VOLUME NECESSARY TO ________________________________________

2. FILL VOLUME IS TO THE LONG-TERM DESIGN ELEVATION OF +1.0' NAVD 88.

3. TIDAL CHANNELS SHALL BE SIZED TO PROVIDE HYDROLOGIC CONNECTION BETWEEN WETLANDS _________________.

4. INITIAL CONSTRUCTION SHALL CONSIST OF EXTERNAL CONTAINMENT FOR AN APPROXIMATELY _________________.

5. THE REMAINING PORTION OF THE SOUTHERN WETLAND CREATION AREA, AS WELL AS THE MIDDLE _______________________


7. WARNING SIGNS AND MARKERS.

8. THESE DRAWINGS.
NOTE:
1. Existing elevations from
2. Contours referenced North
American Vertical Datum of 1988
3. The extents of the 1,200-acre
Conceptual Wetland Creation
Site layout and shown.
4. Legend:
5. Permit Drawings
Issued: 2021-09-08
NOT TO BE USED FOR CONSTRUCTION
NOTES:
1. SITE GENERAL NOTE 1 ON SHEET GIVES FOR CONSTRUCTION SITE LIMITATIONS
2. SITE SHEET 0-0-0 FOR WARNING SIGN
3. WARNING SIGNS TO BE PLACED AS NECESARY BASED ON COORDINATION WITH U.S. COAST GUARD
4. EXACT INTERNAL CONTAINMENT ORIGIN LAYOUT TO BE DETERMINED DURING DETAIL DESIGN. WETLAND CREATION CELLS TO BE APPROX. 40 ACRES
5. EXAMPLE WETLAND CREATION CELL SHOWN IN DETAIL ON SHEET C-101

LEGEND:
- EXTERNAL DIKE TOE
- INTERNAL DIKE
- WETLAND CREATION AREA
- DP - DEPTH CONTOR
- MP - PROPOSED DESIGN WATERLINE CORRIDOR
- WP - WARNING SIGNS (EACH SET)
- PF - PROJECT FEATURE INFLECTION POINT
NOTES:
1. WETLAND HABITAT TO BE CONSTRUCTED AFTER FINAL DREDGED MATERIAL LIFT HAS BEEN DELIVERED.
2. WETLAND HABITAT LAYOUT SHOWN AS AN EXAMPLE, EXACT LAYOUT TO BE DETERMINED.
3. WETLAND HABITAT TO BE HYDRAULICALLY CONNECTED TO MOBILE BAY.
4. EXTERNAL DIKE TO BE GAPPED/DEGRADED AS NECESSARY.

LEGEND:
- HIGH MARSH HABITAT
- LOW MARSH HABITAT

CONCEPTUAL WETLAND CREATION CELL DETAIL

SCALE: 1" = 120'

NOT TO BE USED FOR CONSTRUCTION PERMIT DRAWINGS
ISSUED: 2021-09-08

PERMIT DRAWINGS
ISSUED: 2021-09-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALE SHOWN BASED ON 22 X 35 DRAWING
NOTES:
1. EXACT DIMENSIONS, INCLUDING SLOPES, WETLAND LOCATION, SLOPES, ETC., TO BE DETERMINED DURING DETAILED DESIGN.
2. DESIGN ELEVATIONS OF CONTAMINANT DIKES SHALL NOT EXCEED +6.0' NAVD 88.
3. DREDGED MATERIAL CONSTRUCTION FILL ELEVATION SHALL NOT EXCEED +4.0' NAVD 88. WETLAND DESIGN ELEVATION SHALL BE INTERTIDAL, ASSUMED TO BE +1.0' NAVD 88.
4. INTERNAL IN-SITU BORROW TO BE USED TO CONSTRUCT SAND BENCH AND INTERNAL EARTHEN CONTAMINANT DIKES. BORROW DEPTH SHALL NOT EXCEED -20.0' NAVD 88.
5. WORKED AREA DREDGE DEPTH VARYING, DEPENDING ON SAND LAYER THICKNESS. CONTRACTOR SHALL NOT DREDGE BEYOND -20.0' NAVD 88.
MARSH PLATFORM CONSTRUCTED OF HYDRAULICALLY DREDGED SAND

ELEV. +1’ NAVD 88

ELEV. +6.0’ NAVD 88

ELEV. +4.0’ NAVD 88

EARTHEN CONTAINMENT DIKE HYDRAULICALLY DREDGE OR SIDECAST FROM INTERIOR IN-SITU MATERIAL

ELEV. VARIES, -1.0’ TO -7.0’ EXISTING BOTTOM

ELEV. +6.0’ NAVD 88

ARMOR STONE
2 LAYERS
W50 3000 LB
D50 2.50 FT

15.0’

10.0’

5.0’

GEOTEXTILE

ARMOR STONE
2 LAYERS
W50 3000 LB
D50 2.50 FT

15.0’

10.0’

5.0’

GEOTEXTILE

NOTES:
1. EXACT DIMENSIONS, INCLUDING ELEVATIONS, WIDTHS, LENGTHS, SLOPES, ETC. TO BE DETERMINED DURING DETAILED DESIGN.
2. DESIGN ELEVATIONS OF CONTAINMENT DIKES SHALL NOT EXCEED +6.0’ NAVD 88.
3. LOCATIONS OF TYPE I, TYPE II AND TYPE III CONTAINMENT TO BE DETERMINED DURING DETAILED DESIGN.

INDEX:
C - 1
D - 2
E - 3
F - 4
G - 5
H - 6

NOT TO BE USED FOR CONSTRUCTION PERMIT DRAWINGS

ISSUED: 2021-09-08

SEAL

250 N. WATER STREET,
MOBILE, AL 36602
251-378-9000

NOTES:
1. EXACT DIMENSIONS, INCLUDING ELEVATIONS, WIDTHS, LENGTHS, SLOPES, ETC. TO BE DETERMINED DURING DETAILED DESIGN.
2. DESIGN ELEVATIONS OF CONTAINMENT DIKES SHALL NOT EXCEED +6.0’ NAVD 88.
3. LOCATIONS OF TYPE I, TYPE II AND TYPE III CONTAINMENT TO BE DETERMINED DURING DETAILED DESIGN.
NOTES:
1. EXACT DIMENSIONS, INCLUDING ELEVATIONS, WIDTHS, LENGTHS, SLOPES, ETC., TO BE DETERMINED DURING DETAIL DESIGN.

2. THE INTERNAL IN-SITU BORROW AREAS PLANNED FOR EXTERNAL CONTAINMENT WILL ALSO BE AVAILABLE FOR INTERNAL CONTAINMENT DIKE MATERIAL.

3. BORROW AREA DREDGE DEPTH VARIES DEPENDING ON SAND LAYER THICKNESS. CONTRACTOR SHALL NOT DREDGE BEYOND -20.0' NAVD 88.

4. EXISTING BOTTOM ELEVATION VARIES, -1.0' TO -7.0'.

5. BERM EL. +4.0'

6. CREST EL. +6.0' NAVD 88

7. SAND FILLED GEOTUBES 3' HIGH x 10' WIDE (TYP)

8. CONSTRUCTION BASELINE ELEV. 0.0' NAVD 88

9. ELEV. VARIES, -1.0' TO -7.0'

10. EXISTING BOTTOM

11. ELEV. 0.0' NAVD 88

12. CONSTRUCTION BASELINE
DANGER
BREAKWATER
MARINE SIGNAL LIGHT (SEE NOTE 1)

(3) 3/4"Ø A307 (HDG) DOME HEAD BOLTS WITH OGEE WASHERS AND NUT (TYP)

3'x3' SIGN FACE
0.125" THICK MARINE GRADE ALUMINUM WITH WHITE SHEETING (ONE SIDE)

RETROREFLECTIVE BLACK LETTERS (TYP)

EL +6.0±

DRIVE POST IN PLACE

(1) ASTM D25 12"Ø x 50' LONG TREATED TIMBER PILE (2.5 CCA)

3" ORANGE RETROREFLECTIVE BORDER

DANGER
OBSTRUCTION

3'x3' SIGN FACE
EL +6.0±

DRIVE POST IN PLACE

TIMBER OR METAL POST OR PILE - LENGTH AND DIAMETER TO BE SELECTED BY CONTRACTOR

MARINE SIGNAL LIGHT (SEE NOTE 1)

WHITE FACE
3" ORANGE RETROREFLECTIVE BORDER

0.35'
0.25'

RETROREFLECTIVE BLACK LETTERS (TYP)

ENGINEER'S REVIEW.

NOTES
1. MARINE SIGNAL LIGHT SHALL MEET REQUIREMENTS OF CFR TITLE 33, SUBPART 67.30 FOR CLASS "C" STRUCTURES AND HAVE AS MINIMUM THE FOLLOWING PROPERTIES

RANGE 3 NAUTICAL MILES (25 CANDELA)
LENS CLEAR
SLOW FLASH 2.5 SEC
VISIBILITY 360° HORIZON
COLOR WHITE

2. CONTRACTOR SHALL COORDINATE WITH US COAST GUARD ON REQUIREMENTS OF TEMPORARY WARNING SIGNS, INCLUDING SIGN VERBAGE AND PLACEMENT LOCATION, PRIOR TO INSTALLATION.

3. OTHER FORMS OF TEMPORARY WARNING SIGNS MAY BE USED WITH PRIOR APPROVAL OF US COAST GUARD AND ENGINEER'S REVIEW.

4. DURING CONSTRUCTION TEMPORARY WARNING SIGNS AND/OR BUOYS SHALL BE REQUIRED AS NECESSARY.

5. ALL SIGN FACES SHALL BE ORIENTED TO FACE PREDOMINANT APPROACH DIRECTION OF ONCOMING BOAT TRAFFIC.

NOTES: HDG  HOT DIP GALVANIZED
CCA  CHROMATED COPPER ARSENATE

INDEX: OF DRAWINGS
PERMANENT WARNING SIGN DETAIL
SCALE: NTS

TEMPORARY WARNING SIGN DETAIL
SCALE: NTS

M&N PROJECT NO
250 N. WATER STREET
MOBILE, AL 36602

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION PROJECT

PERMITTED DRAWINGS
ISSUED: 2021-09-08
CONSTRUCTION -08

PWL
11 N. WATER STREET, SUITE 2022 MOBILE, AL 36602 251-378-9000

INDEX: OF DRAWINGS
PERMANENT WARNING SIGN DETAIL
SCALE: NTS

TEMPORARY WARNING SIGN DETAIL
SCALE: NTS

M&N PROJECT NO
250 N. WATER STREET
MOBILE, AL 36602

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION PROJECT

PERMITTED DRAWINGS
ISSUED: 2021-09-08
CONSTRUCTION -08

PWL
TURBIDITY CONTROL NOTES:

1. CONTRACTOR SHALL SUBMIT TURBIDITY CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TURBIDITY CONTROL CURTAIN AROUND DREDGE FILL AREA. THE CONTRACTOR HAS THE OPTION TO ENCLOUSE THE WATERSIDE OF THE SITE, WITHIN THE LIMITS OF DISTURBANCE, OR TO INSTALL, MAINTAIN SUCH CURTAINS AT ALL TIMES IN THE AREAS WHERE DREDGE FILL IS IN PROGRESS.

3. TURBIDITY SHALL BE MONITORED DAILY.

4. TURBIDITY CURTAINS SHALL BE SECURED WITH TEMPORARY STEEL OR TIMBER PILINGS AT SUFFICIENT SPACING TO MAINTAIN FUNCTION. A WEIGHT SYSTEM CAN ALSO BE UTILIZED IF PRACTICAL.

5. TURBIDITY CURTAINS SHALL BE SIMILAR TO EITHER THE TYPE I OR TYPE II CURTAINS SHOWN ON THIS SHEET.

6. MEASURES FOR REDUCING ENTRAPMENT RISK TO PROTECTED SPECIES WILL BE IMPLEMENTED.
NOTES:

1. BOX RISER WEIRS PROPOSED FOR WETLAND CREATION CELL DREDGED MATERIAL DEWATERING.

2. 30" ID HDPE PIPE ASSUMED.

3. 2 WEIRS MAY BE INSTALLED WITHIN A WETLAND CREATION CELL FOR REDUNDANCY.

4. ACCESS TO FLOATING DOCK BY GANGWAY FROM EXTERIOR DIKE.

5. HDPE PIPE TO BE ANCHORED AS NECESSARY.

6. HDPE PIPE TO BE INSTALLED AT APPROX. 2% SLOPE THROUGH EXTERNAL CONTAINMENT DIKE. OUTFALL ELEVATION TO BE DETERMINED.
### Boring Point Table

<table>
<thead>
<tr>
<th>Point</th>
<th>Depth</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 33.73</td>
<td></td>
</tr>
<tr>
<td>B-2</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 20.98</td>
<td></td>
</tr>
<tr>
<td>B-3</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 08.00</td>
<td></td>
</tr>
<tr>
<td>B-4</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 00.00</td>
<td></td>
</tr>
<tr>
<td>B-5</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 01.68</td>
<td></td>
</tr>
<tr>
<td>B-6</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 03.89</td>
<td></td>
</tr>
<tr>
<td>B-7</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 06.25</td>
<td></td>
</tr>
<tr>
<td>B-8</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 08.50</td>
<td></td>
</tr>
<tr>
<td>B-9</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 10.72</td>
<td></td>
</tr>
<tr>
<td>B-10</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 13.03</td>
<td></td>
</tr>
<tr>
<td>B-11</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 15.34</td>
<td></td>
</tr>
<tr>
<td>B-12</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 17.65</td>
<td></td>
</tr>
<tr>
<td>B-13</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 19.96</td>
<td></td>
</tr>
<tr>
<td>B-14</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 22.27</td>
<td></td>
</tr>
<tr>
<td>B-15</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 24.58</td>
<td></td>
</tr>
<tr>
<td>B-16</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 26.89</td>
<td></td>
</tr>
<tr>
<td>B-17</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 29.20</td>
<td></td>
</tr>
<tr>
<td>B-18</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 31.51</td>
<td></td>
</tr>
<tr>
<td>B-19</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 33.83</td>
<td></td>
</tr>
<tr>
<td>B-20</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 36.14</td>
<td></td>
</tr>
<tr>
<td>B-21</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 38.45</td>
<td></td>
</tr>
<tr>
<td>B-22</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 40.76</td>
<td></td>
</tr>
<tr>
<td>B-23</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 43.07</td>
<td></td>
</tr>
<tr>
<td>B-24</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 45.38</td>
<td></td>
</tr>
<tr>
<td>B-25</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 47.69</td>
<td></td>
</tr>
<tr>
<td>B-26</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 49.92</td>
<td></td>
</tr>
<tr>
<td>B-27</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 33.33</td>
<td></td>
</tr>
<tr>
<td>B-28</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 55.55</td>
<td></td>
</tr>
<tr>
<td>B-29</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 00.00</td>
<td></td>
</tr>
<tr>
<td>B-30</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 00.00</td>
<td></td>
</tr>
<tr>
<td>B-31</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 00.00</td>
<td></td>
</tr>
<tr>
<td>B-32</td>
<td>50'</td>
<td>N30° 38' 0.12 W88° 00' 00.00</td>
<td></td>
</tr>
</tbody>
</table>

### Dredge Pipeline Point Table

<table>
<thead>
<tr>
<th>Point</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1</td>
<td>N30° 38' 0.12 W88° 00' 33.73</td>
<td></td>
</tr>
<tr>
<td>B-2</td>
<td>N30° 38' 0.12 W88° 00' 20.98</td>
<td></td>
</tr>
<tr>
<td>B-3</td>
<td>N30° 38' 0.12 W88° 00' 08.00</td>
<td></td>
</tr>
<tr>
<td>B-4</td>
<td>N30° 38' 0.12 W88° 00' 00.00</td>
<td></td>
</tr>
<tr>
<td>B-5</td>
<td>N30° 38' 0.12 W88° 00' 01.68</td>
<td></td>
</tr>
<tr>
<td>B-6</td>
<td>N30° 38' 0.12 W88° 00' 03.89</td>
<td></td>
</tr>
<tr>
<td>B-7</td>
<td>N30° 38' 0.12 W88° 00' 06.25</td>
<td></td>
</tr>
<tr>
<td>B-8</td>
<td>N30° 38' 0.12 W88° 00' 08.50</td>
<td></td>
</tr>
<tr>
<td>B-9</td>
<td>N30° 38' 0.12 W88° 00' 10.72</td>
<td></td>
</tr>
<tr>
<td>B-10</td>
<td>N30° 38' 0.12 W88° 00' 13.03</td>
<td></td>
</tr>
<tr>
<td>B-11</td>
<td>N30° 38' 0.12 W88° 00' 15.34</td>
<td></td>
</tr>
<tr>
<td>B-12</td>
<td>N30° 38' 0.12 W88° 00' 17.65</td>
<td></td>
</tr>
<tr>
<td>B-13</td>
<td>N30° 38' 0.12 W88° 00' 19.96</td>
<td></td>
</tr>
<tr>
<td>B-14</td>
<td>N30° 38' 0.12 W88° 00' 22.27</td>
<td></td>
</tr>
<tr>
<td>B-15</td>
<td>N30° 38' 0.12 W88° 00' 24.58</td>
<td></td>
</tr>
<tr>
<td>B-16</td>
<td>N30° 38' 0.12 W88° 00' 26.89</td>
<td></td>
</tr>
<tr>
<td>B-17</td>
<td>N30° 38' 0.12 W88° 00' 29.20</td>
<td></td>
</tr>
<tr>
<td>B-18</td>
<td>N30° 38' 0.12 W88° 00' 31.51</td>
<td></td>
</tr>
<tr>
<td>B-19</td>
<td>N30° 38' 0.12 W88° 00' 33.83</td>
<td></td>
</tr>
<tr>
<td>B-20</td>
<td>N30° 38' 0.12 W88° 00' 36.14</td>
<td></td>
</tr>
<tr>
<td>B-21</td>
<td>N30° 38' 0.12 W88° 00' 38.45</td>
<td></td>
</tr>
<tr>
<td>B-22</td>
<td>N30° 38' 0.12 W88° 00' 40.76</td>
<td></td>
</tr>
<tr>
<td>B-23</td>
<td>N30° 38' 0.12 W88° 00' 43.07</td>
<td></td>
</tr>
<tr>
<td>B-24</td>
<td>N30° 38' 0.12 W88° 00' 45.38</td>
<td></td>
</tr>
<tr>
<td>B-25</td>
<td>N30° 38' 0.12 W88° 00' 47.69</td>
<td></td>
</tr>
<tr>
<td>B-26</td>
<td>N30° 38' 0.12 W88° 00' 50.00</td>
<td></td>
</tr>
</tbody>
</table>

### Permit Drawings

PERMIT DRAWINGS
ISSUED: 2021-09-08
NOT TO BE USED FOR CONSTRUCTION

Sheet Reference No. C-601

DRAWING SCALE SHEET SIZE BASED ON 22 x 3 DRAWING