



**US Army Corps
of Engineers**

Vicksburg District
4155 Clay Street
Vicksburg, MS 39183-3435
www.mvk.usace.army.mil



Public Notice

APPLICATION NO.:	MVK-2020-834
EVALUATOR:	Ms. Jennifer Brown
PHONE NO.:	(601) 631-5147
E-MAIL:	Jennifer.G.Brown@usace.army.mil
DATE:	July 14, 2023
EXPIRATION DATE:	August 3, 2023

Interested parties are hereby notified that the U.S. Army Corps of Engineers, Vicksburg District, and the Mississippi Department of Environmental Quality (MDEQ), are considering an application for a Department of the Army Permit and State Water Quality Certification for the work described herein. Comments should be forwarded to the Vicksburg District, Attention: CEMVK-RD, and the MDEQ at Post Office Box 2261, Jackson, Mississippi 39225-2261, and must reach these offices by the above-cited expiration date.

The Clean Water Act (CWA) Section 401 Certification Rule (Certification Rule, 40 CFR 121), effective September 11, 2020, requires certification for any license or permit that authorizes an activity that may result in a discharge. The scope of a CWA Section 401 certification is limited to assuring that a discharge from a federally licensed or permitted activity will comply with water quality requirements. The applicant is responsible for requesting certification and providing required information to the certifying agency. As of the date of this public notice, the applicant has not submitted a certification request to MDEQ (certifying authority). In accordance with Certification Rule part 121.6, once the applicant submits a certification request, the Corps of Engineers will notify the certifying agency of the reasonable period of time for them to act upon the certification request.

Law Requiring a Permit: Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) which applies to structures or work in navigable waters of the United States, and Section 404 of the Clean Water Act (33 U.S.C. 1344) which applies to discharges of dredged and/or fill material into waters of the United States.

Name of Applicant:
Mr. Mike Webster
Viking USA, LLC
5700 Canoga Avenue, Ste. 200
Woodland Hills, California 91367

Name of Agent:
Ms. Jessica Smith
Hargrove and Associates, Inc.
17 Park of Commerce Blvd., Ste. 200
Savannah, Georgia 31405

Location of Work: Section 16, Township 7 North, Range 3 West; Latitude 31.558947, Longitude -91.412625; within the Mississippi River Drainage Basin (8-digit HUC 08060100); Adams County, Mississippi.

Description of Work:

The following descriptions of the proposed project and associated impacts are based upon information provided by the applicant.

The applicant is applying for a Department of the Army permit for the purpose of providing an embarkation facility to allow passengers, staff, provisions, and waste to be safely loaded/unloaded along the waterfront of Natchez, Mississippi. The City of Natchez is an established destination for the Viking USA, LLC cruise vessel *Viking Mississippi*.

To enable safe embarkation, the applicant proposes construction of a truss-style gangway to support floating platforms extending into the Mississippi River. The floating platform system would be a “flexi-float” system that utilizes twelve (12), 20-inch diameter stud-piles to secure the two (2) 30 feet long by 20 feet wide floating platforms. The proposed 320 feet long (total) structure would be hinged to allow adjustment to the current river levels, therefore maintaining access to the moored vessel during rising and falling river elevations. Six (6), 72-inch diameter, monopile breasting dolphins equipped with solar operating navigational beacons and donut fenders would be installed to absorb berthing loads; six (6), 72-inch diameter, mooring dolphins would be installed as mooring points to secure the vessel; and one (1), 72-inch diameter, monopile protection dolphin would be installed to protect the floating platform. Riprap scour protection would be installed around each pile set (approximately 226 square feet of riprap at each set). See enclosed maps and drawings.

At the proposed site, a 90% operability target was established as Viking USA, LLC's minimally acceptable standard for the structure. The vessel, when fully loaded, will draft under the surface water line to a depth of 9.5 feet. Taking into consideration predicted wave motion and necessary safety clearances, a total required water depth below the surface water line of 12.0 feet was calculated. Using Automated Identification System data, Viking USA conducted a passing vessel analysis; the results of which are shown on the enclosed traffic density imagery.

The vessel would moor at the Natchez location once every 6-8 days for approximately 8-13 hours each iteration. The most channelward mooring pile would be located at coordinates: 31.5590283126, -91.4140841938.

Upon reviewing this notice, you should write to this office to provide your opinion of the impacts this work will have on the natural and human environment and address any mitigation you believe is necessary to offset these impacts. Other

comments are welcome, but the above information will further our review of the applicant's plan as proposed. Comments of a general nature are not as helpful as those specific to the impacts of the subject project.

State Water Quality Permit: The State Pollution Control Agency must certify that the described work will comply with the State's water quality standards and effluent limitations before a Corps permit is issued.

Cultural Resources: The Regulatory Archaeologist has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible, and other sources of information. The following is current knowledge of the presence or absence of historic properties and the effects of the proposed undertaking upon these properties: The permit area has been so extensively modified that little likelihood exists for the proposed project to impinge upon a historic property, even if present within the affected area.

Endangered Species: The Threatened and Endangered Species list for the project area includes: Fat Pocketbook Mussel (*Potamilus capax*), Pallid Sturgeon (*Scaphirhynchus albus*), Wood Stork (*Mycteria americana*), Northern Long-eared Bat (*Myotis septentrionalis*), and Alligator Snapping Turtle (*Macrochelys temminckii*). Utilizing the Standard Local Operating Procedure for Endangered Species (SLOPES) as signed on June 28, 2017, between the U.S. Army Corps of Engineers, Vicksburg District and the U.S. Fish and Wildlife Service (USFWS), the Corps has determined that the proposed activity: would have no effect on Fat Pocketbook Mussel, Pallid Sturgeon, Wood Stork, or Northern Long-eared Bat, and would not jeopardize the continued existence of the (proposed for listing) Alligator Snapping Turtle.

Floodplain: In accordance with 44 CFR Part 60 (Floodplain Management and Use), participating communities are required to review all proposed development to determine if a floodplain development permit is required. Floodplain administrators should review the proposed development described in this public notice and apprise this office of any flood plain development permit requirements. The project area is located within the 100-year floodplain.

Evaluation Factors: The decision whether or not to issue a permit will be based upon an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which may be expected to accrue from the proposal must be balanced against its expected adverse effects. All factors which may be relevant to the proposal will be considered; among these are conservation, economics, aesthetics, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use classification, navigation, recreation, water supply, water quality, energy needs, safety, food requirements and, in general, the needs and welfare of the people.

Evaluation of the proposed activity will include application of the guidelines published by the Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act.

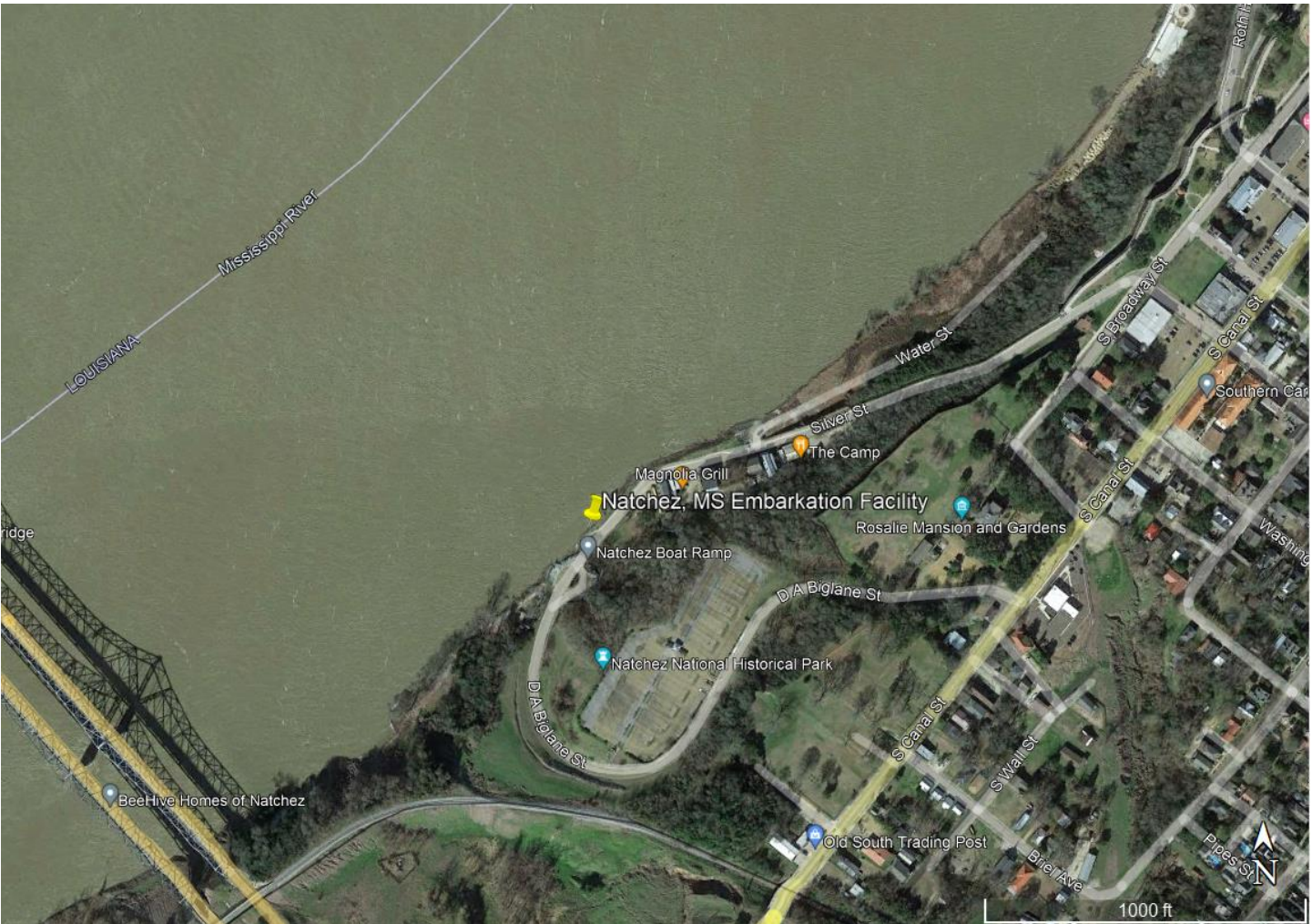
Public Involvement: The purpose of this notice is to solicit comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties. These comments will be used to evaluate the impacts of this project. All comments will be considered and used to help determine whether to issue the permit, deny the permit, or issue the permit with conditions, and to help us determine the amount and type of mitigation necessary. This information will be used in our Environmental Assessment or Impact Statement. Comments are also used to determine the need for a public hearing.

Opportunity for a Public Hearing: Any person may make a written request for a public hearing to consider this permit application. This request must be submitted by the public notice expiration date and must clearly state why a hearing is necessary. Failure of any agency or individual to comment on this notice will be interpreted to mean that there is no objection to the proposed work. Please bring this announcement to the attention of anyone you know who might be interested in this matter.

Notification of Final Permit Actions: Each month, the final permit actions from the preceding month are published on the Vicksburg District Regulatory web page. To access this information, you may follow the link from the Regulatory web page, <http://www.mvk.usace.army.mil/Missions/Regulatory.aspx>.

Bryan Williamson
Chief, Mississippi Branch
Regulatory Division


VIKING-NATCHEZ, MS EMBARKATION FACILITY
HARGROVE PROJECT NO. 2166.230428

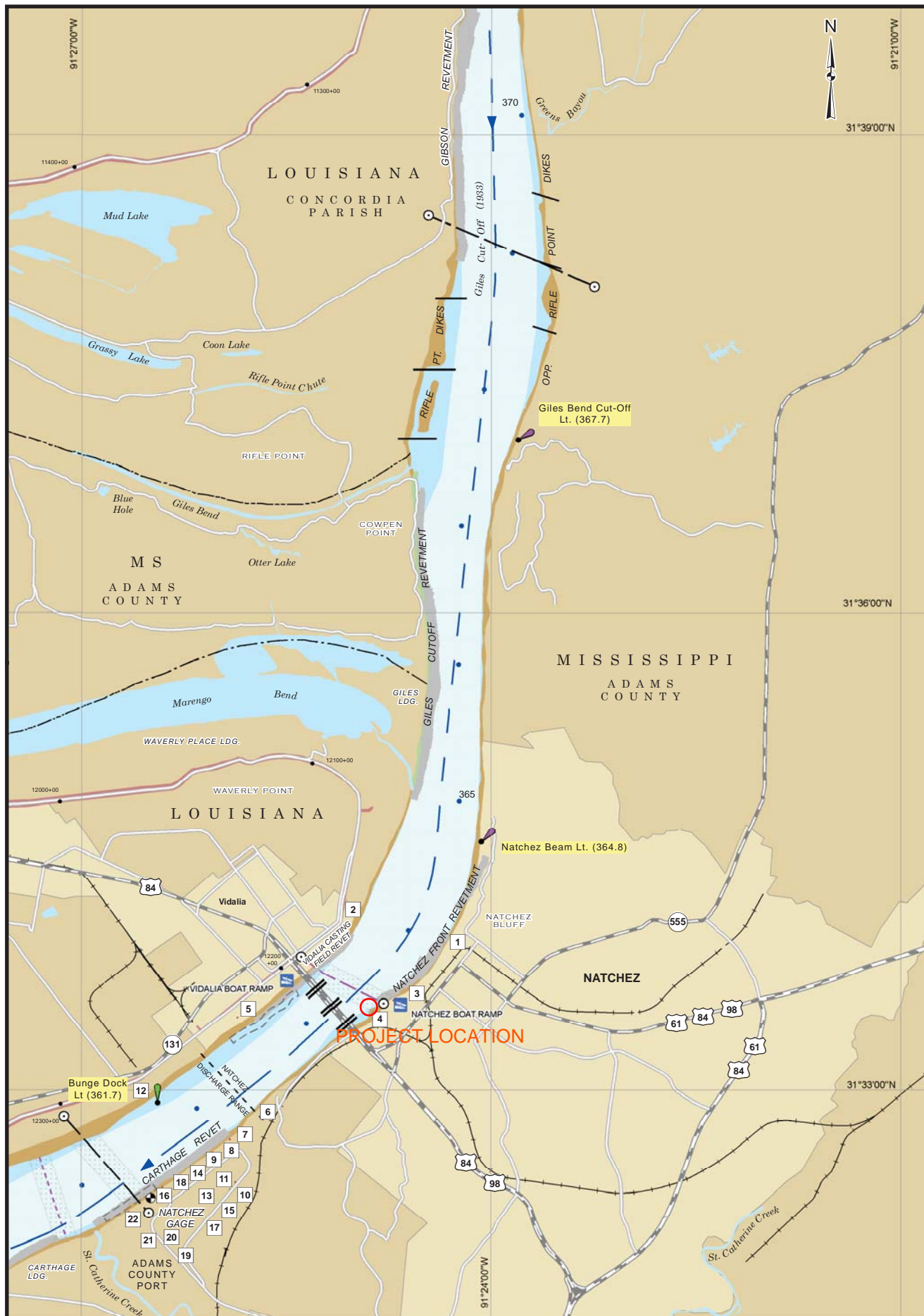


LOCATION MAP
SCALE: N.T.S.

PRELIMINARY
NOT FOR
CONSTRUCTION

ISSUED
FOR
PERMIT

<div><p>Hargrove and Associates Inc. 17 Park of Commerce Blvd - Ste 200 Savannah, GA 31405 912.239.1411 - hargrove-epc.com</p></div>	APPLICATION BY: VIKING USA, LLC 5700 CANOGA AVE, SUITE 200 WOODLAND HILLS, CA 91367	STATE: MISSISSIPPI	DATUM: NAVD 88	
	PURPOSE: EMBARKATION FACILITY	COUNTY OF: ADAMS	LAT: 31° 33'32.21"N	LONG: 91°24'45.45"W
	PROPOSED ACTIVITY: DOCKING RIVER CRUISE VESSELS	DRAWN BY: JAS DATE: 06/19/2023	CONTRACT NO. 230428	OWNER NO. 2166
		CHECKED BY: RMD DATE: 06/19/2023	APPROVED BY: J. SMITH	DATE: 06/20/2023
	LOCATION MAP	SCALE: AS NOTED	DRAWING NO. 230428-PERM-001	REV. 0



2015

SCALE = 1:40,000

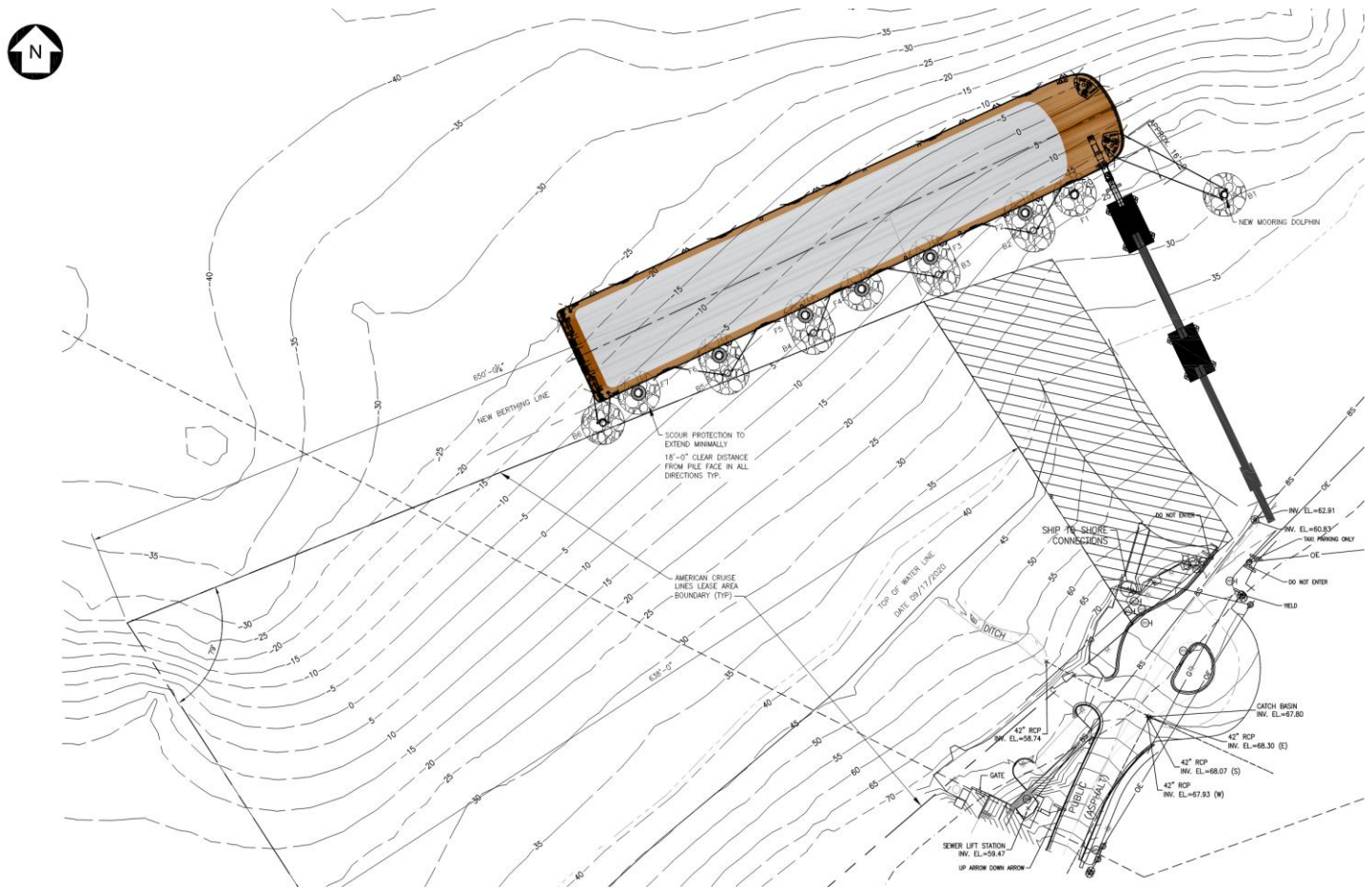


CHART NO. 60

Last Revised Date: 5/6/2016

River Mile 370.8 to 360.4

PILE SCHEDULE				
PILE NO.	PILE DESCRIPTION	CUTOFF ELEVATION	TIP ELEVATION	PILE BATTER
B1	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
B2	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
B3	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
B4	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
B5	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
B6	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
F2	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
F3	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
F4	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
F5	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
F6	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB
F7	72"Ø x 1.5"	83'-0"	-100'-0"	PLUMB



SITE LAYOUT
SCALE: N.T.S.

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hargrove
engineers & constructors

Hargrove and Associates Inc.
17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

SITE LAYOUT

STATE:
MISSISSIPPI

COUNTY OF:
ADAMS

DRAWN BY: DATE:
JAS 06/19/2023

CHECKED BY: DATE:
RMD 06/19/2023

SCALE:
AS NOTED

DATUM:
NAVD 88

LAT:
31° 33'32.21"N

CONTRACT NO.
230428

APPROVED BY:
J. SMITH

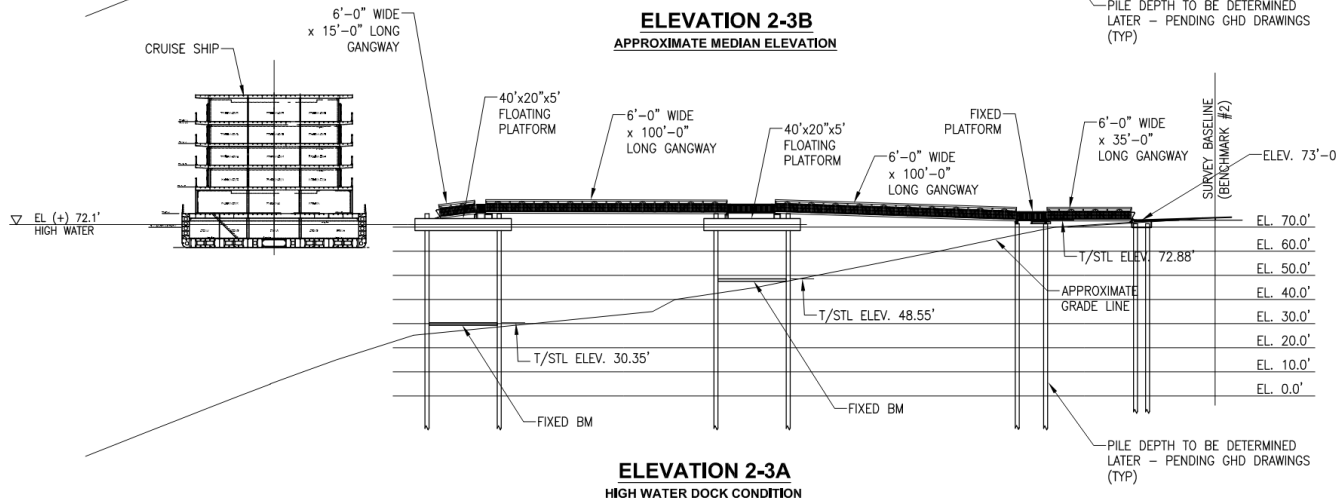
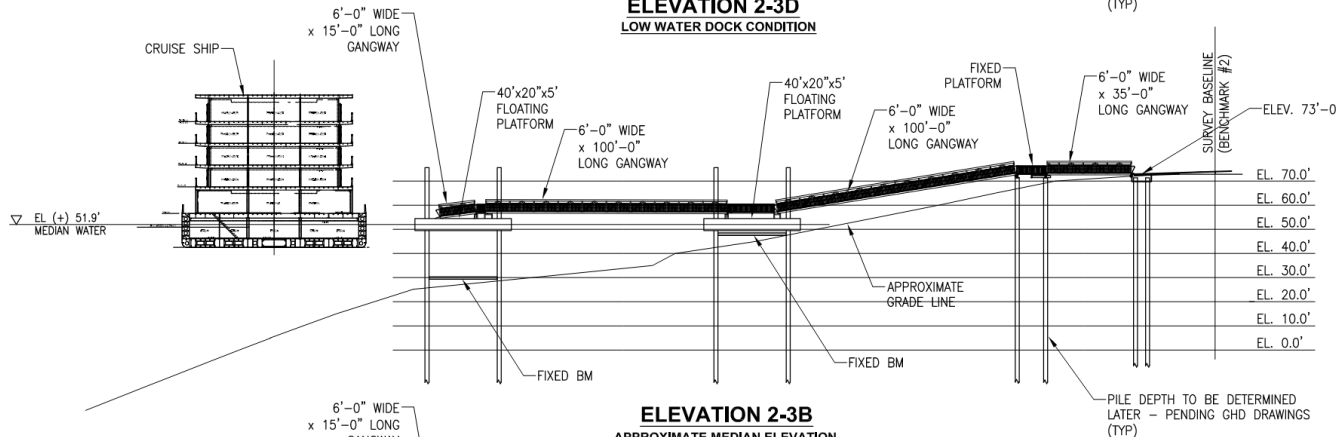
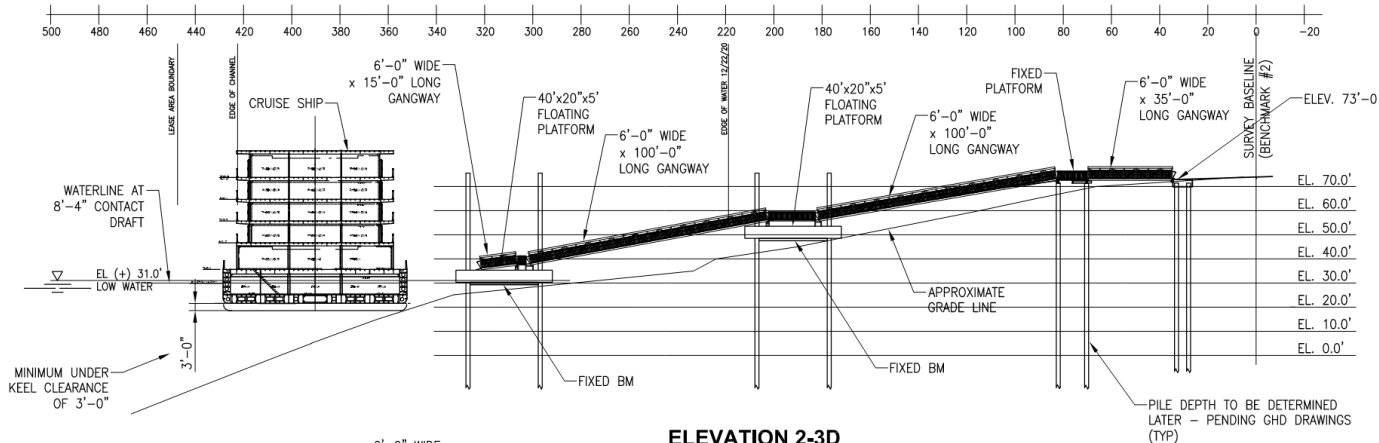
DRAWING NO.
230428-PERM-002

LONG:
91°24'45.45"W

OWNER NO.
2166

DATE:
06/20/2023

REV.
0



NATCHEZ EMBARKATION FACILITY ELEVATIONS

SCALE: N.T.S.

**PRELIMINARY
NOT FOR
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FOR
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hargrove
engineers & constructors

Hargrove and Associates Inc.
17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

ELEVATIONS

STATE:
MISSISSIPPI
COUNTY OF:
ADAMS

DRAWN BY: JAS
DATE: 06/19/2023

CHECKED BY: RMD
DATE: 06/19/2023

SCALE:
AS NOTED

DATUM:
NAVD 88

LAT:
31° 33' 32.21"N

CONTRACT NO.
230428

APPROVED BY:
J. SMITH

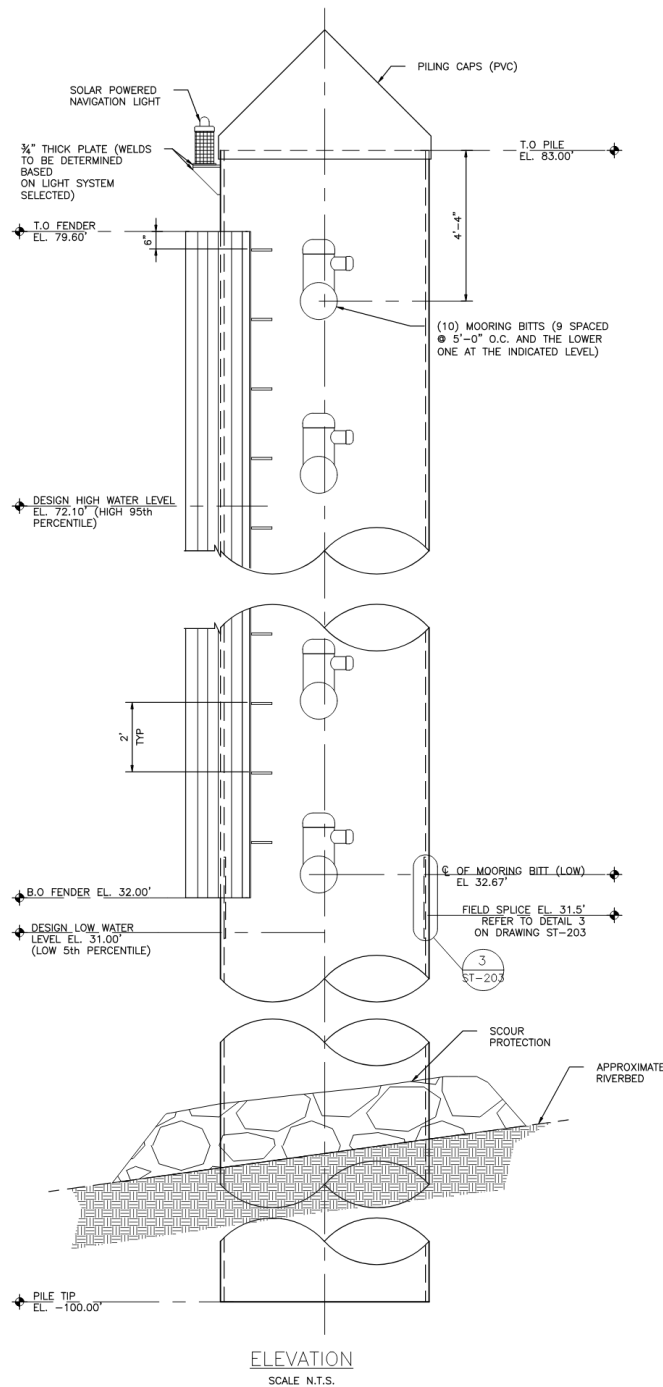
DRAWING NO.
230428-PERM-003

LONG:
91° 24' 45.45"W

OWNER NO.
2166

DATE:
06/20/2023

REV.
0



PRELIMINARY
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hargrove
engineers & constructors

Hargrove and Associates Inc.
17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

**MOORING DOLPHIN
ELEVATION**

STATE:
MISSISSIPPI

COUNTY OF:
ADAMS

DRAWN BY: JAS DATE: 06/19/2023

CHECKED BY: RMD DATE: 06/19/2023

SCALE:
AS NOTED

DATUM:
NAVD 88

LAT:
31° 33'32.21"N

CONTRACT NO.
230428

APPROVED BY:
J. SMITH

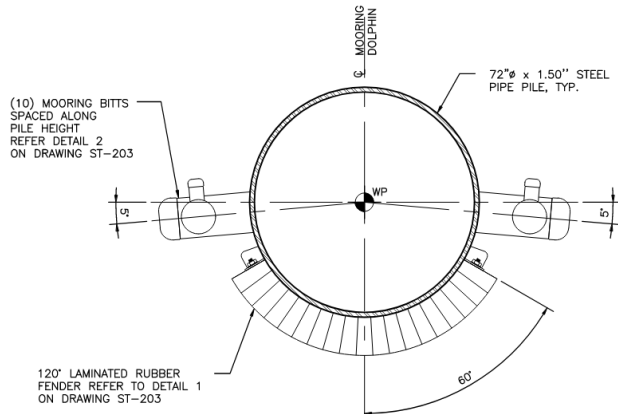
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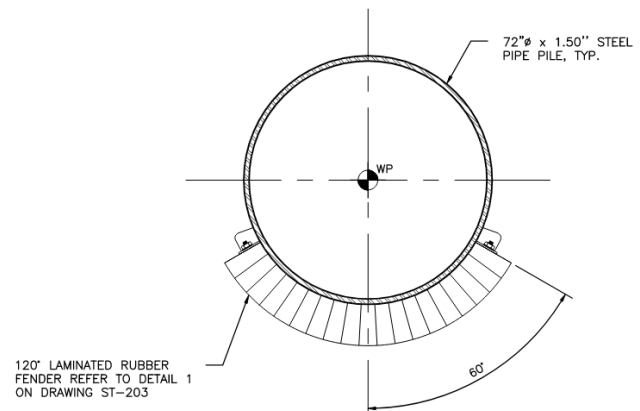
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DATE:
06/20/2023

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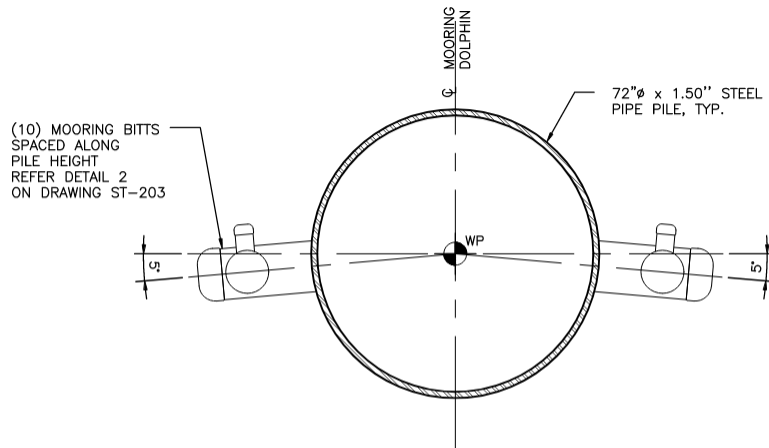


PLAN VIEW
MOORING DOLPHIN B-1 & B-6
REQ. 1 no. 72"Ø x 1.50" STEEL PIPE PILES



PLAN VIEW
POONTON PROTECTION DOLPHIN F-1
REQ. 1 no. 72"Ø x 1.50" STEEL PIPE PILES

SCALE: N.T.S.



PLAN VIEW
MOORING DOLPHIN B-2 to B-5
REQ. 1 no. 72"Ø x 1.50" STEEL PIPE PILES

PRELIMINARY
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hargrove
engineers & constructors

Hargrove and Associates Inc.
17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

**MOORING DOLPHIN
PLAN VIEW**

STATE:
MISSISSIPPI

COUNTY OF:
ADAMS

DRAWN BY: DATE:
JAS 06/19/2023

CHECKED BY: DATE:
RMD 06/19/2023

SCALE:
AS NOTED

DATUM:
NAVD 88

LAT:
31° 33' 32.21"N

CONTRACT NO.
230428

APPROVED BY:
J. SMITH

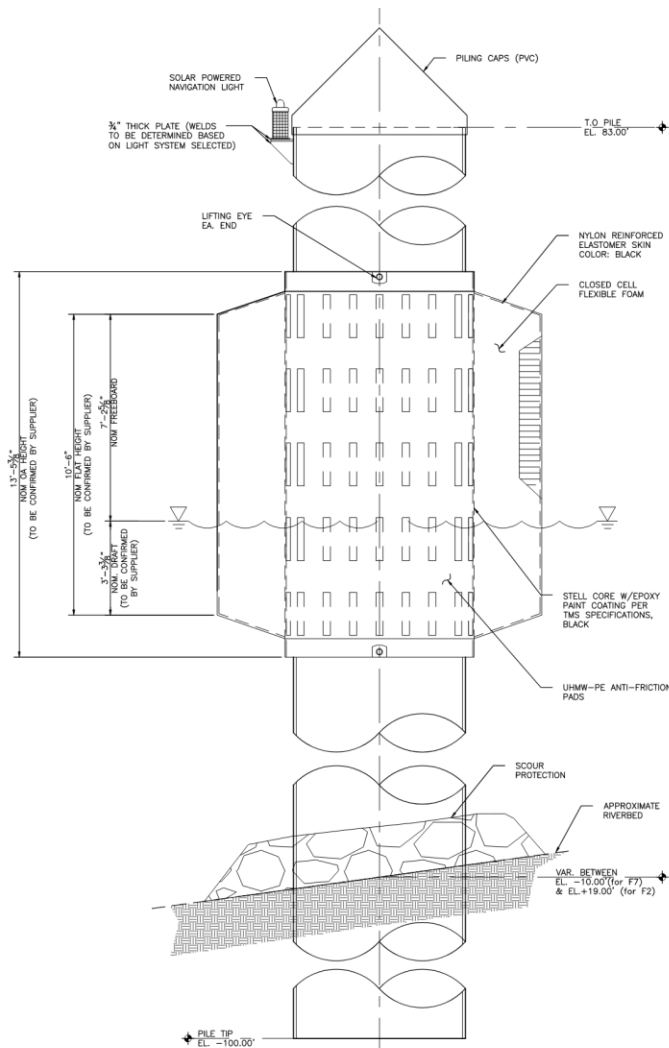
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230428-PERM-005

LONG:
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OWNER NO.
2166

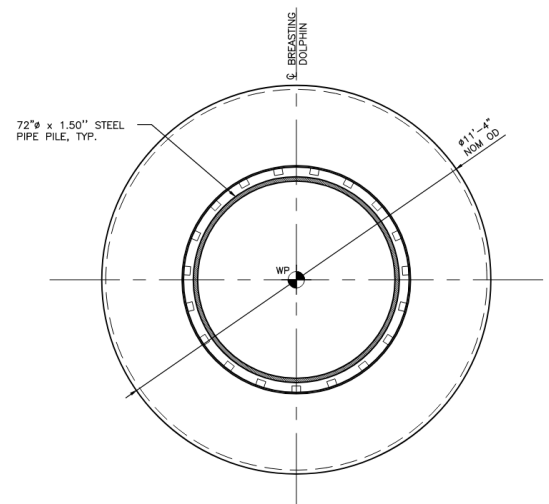
DATE:
06/20/2023

REV.
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ELEVATION
BREASTING DOLPHINS F-2 to F-7

REQ. 1 no. 72"Ø x 1.50" STEEL PIPE PILE WITH FOAM FILLED DONUT FENDER (HIGH CAPACITY)



PLAN VIEW
BREASTING DOLPHINS F-2 to F-7

SCALE: N.T.S.

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17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

**BREASTING DOLPHIN
ELEVATION & PLAN VIEW**

STATE:
MISSISSIPPI

COUNTY OF:
ADAMS

DRAWN BY: DATE:
JAS 06/19/2023

CHECKED BY: DATE:
RMD 06/19/2023

SCALE:
AS NOTED

DATUM:
NAVD 88

LAT:
31° 33' 32.21"N
CONTRACT NO.
230428

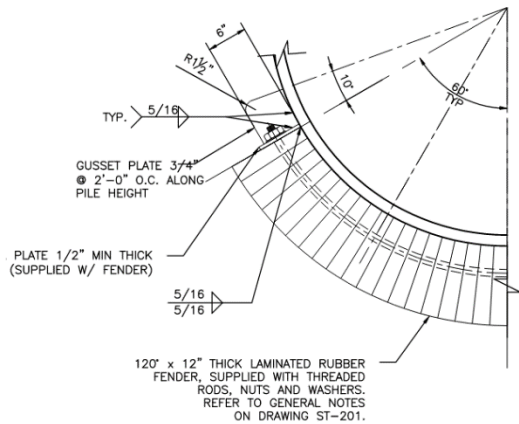
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J. SMITH

DRAWING NO.
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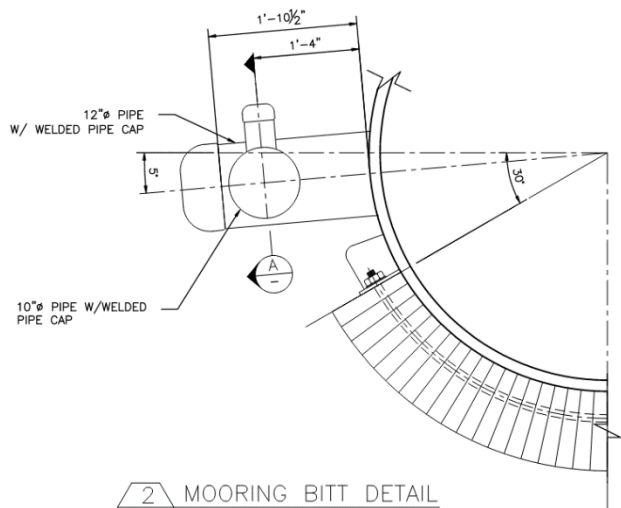
LONG:
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OWNER NO.
2166

DATE:
06/20/2023

REV.
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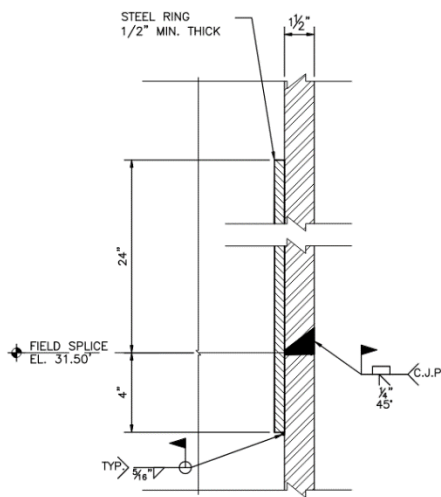


1 120° LAMINATED RUBBER FENDER DETAIL

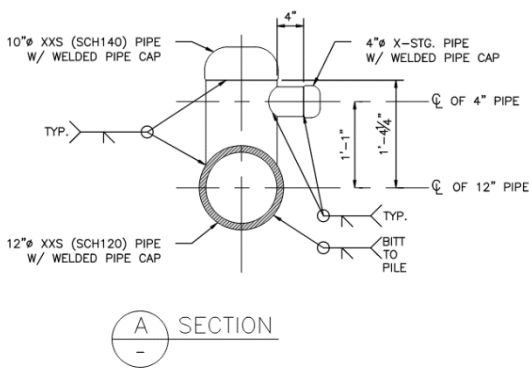


2 MOORING BITT DETAIL

NOTE : 12"Ø, 10"Ø and 4"Ø PIPES TO BE FILLED WITH CONCRETE, PROVIDE AIR VENTS IN REQUIRED LOCATIONS TO ALLOW COMPLETE FILLING. REFER TO GENERAL NOTES ON DRAWING ST-001.



3 FIELD SPLICE DETAIL
ST-201



A SECTION

SCALE: N.T.S.

hargrove
engineers & constructors

Hargrove and Associates Inc.
17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

**MOORING & BREASTING
DOLPHIN DETAILS &
SECTIONS**

STATE:
MISSISSIPPI
COUNTY OF:
ADAMS

DRAWN BY: DATE:
JAS 06/19/2023

CHECKED BY: DATE:
RMD 06/19/2023

SCALE:
AS NOTED

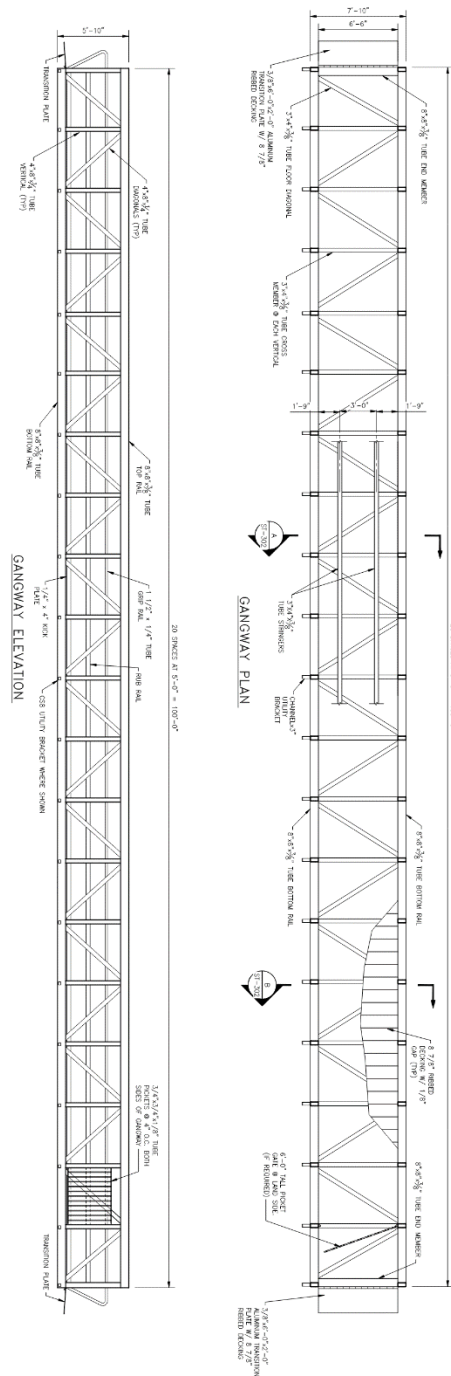
DATUM:
NAVD 88

LAT:
31° 33'32.21"N
LONG:
91°24'45.45"W

CONTRACT NO.
230428
OWNER NO.
2166


APPROVED BY:
J. SMITH
DATE:
06/20/2023

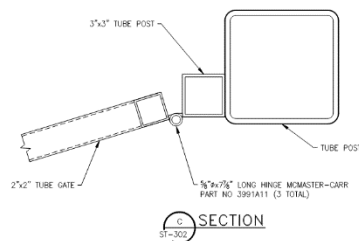
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230428-PERM-007
REV.
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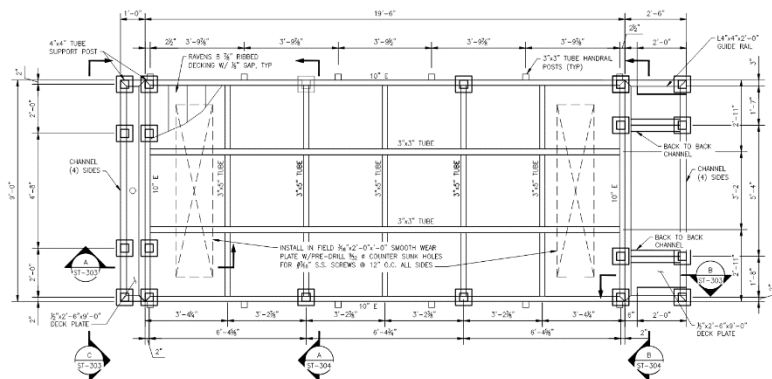
GANGWAY ELEVATIONS & PLANS
SCALE: N.T.S.

PRELIMINARY NOT FOR CONSTRUCTION	ISSUED FOR PERMIT
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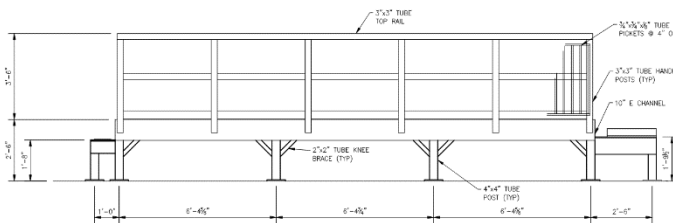
 <p>Hargrove and Associates Inc. 17 Park of Commerce Blvd - Ste 200 Savannah, GA 31405 912.239.1411 - hargrove-epc.com</p>	APPLICATION BY: VIKING USA, LLC 5700 CANOGA AVE, SUITE 200 WOODLAND HILLS, CA 91367	STATE: MISSISSIPPI	DATUM: NAVD 88	
	PURPOSE: EMBARKATION FACILITY	COUNTY OF: ADAMS	LAT: 31° 33' 32.21"N	LONG: 91° 24' 45.45"W
	PROPOSED ACTIVITY: DOCKING RIVER CRUISE VESSELS	DRAWN BY: DATE: JAS 06/19/2023	CONTRACT NO. 230428	OWNER NO. 2166
	GANGWAY PLANS, ELEVATIONS & DETAILS	CHECKED BY: DATE: RMD 06/19/2023	APPROVED BY: J. SMITH	DATE: 06/20/2023
		SCALE: AS NOTED	DRAWING NO. 230428-PERM-008	REV. 0



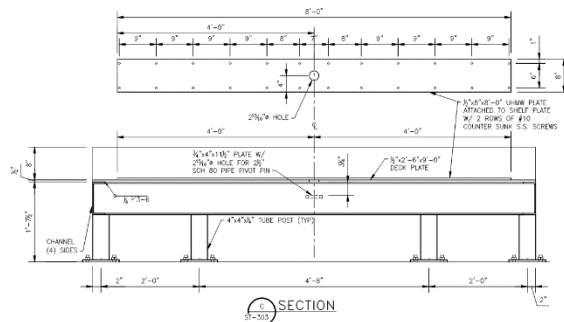
 <p>hargrove engineers & constructors</p> <p>Hargrove and Associates Inc. 17 Park of Commerce Blvd - Ste 200 Savannah, GA 31405 912.239.1411 - hargrove-epc.com</p>	APPLICATION BY: VIKING USA, LLC 5700 CANOGA AVE, SUITE 200 WOODLAND HILLS, CA 91367	STATE: MISSISSIPPI	DATUM: NAVD 88	
		COUNTY OF: ADAMS	LAT: 31° 33'32.21"N	LONG: 91°24'45.45"W
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	GANGWAY SECTIONS & DETAILS	SCALE: AS NOTED	DRAWING NO. 230428-PERM-009	REV. 0



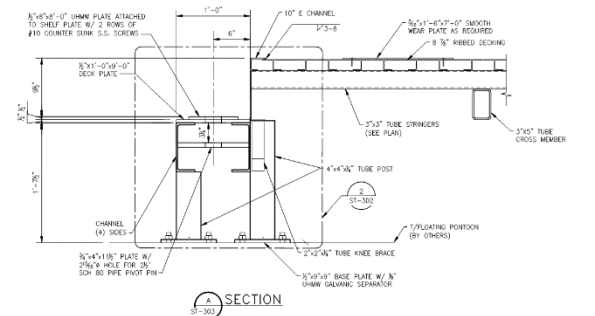
9'-0"x19'-6" PLATFORM PLAN (2 REQ'D)



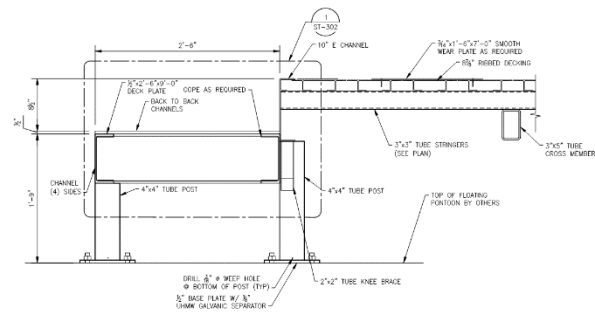
9'-0"x19'-6" PLATFORM ELEVATION (2 REQ'D)



SECTION C



SECTION A



SECTION B

FLEXI-FLOAT PLATFORM PLAN, ELEVATIONS & SECTIONS

SCALE: N.T.S.

PRELIMINARY
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CONSTRUCTION

ISSUED
FOR
PERMIT

hargrove
engineers & constructors

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APPLICATION BY:
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WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

**FLEXI-FLOAT PLATFORMS
PLAN, ELEVATIONS &
SECTIONS**

STATE:
MISSISSIPPI

COUNTY OF:
ADAMS

DRAWN BY: DATE:
JAS 06/19/2023

CHECKED BY: DATE:
RMD 06/19/2023

SCALE:
AS NOTED

DATUM:
NAVD 88

LAT:
31° 33'32.21"N

CONTRACT NO.
230428

APPROVED BY:
J. SMITH

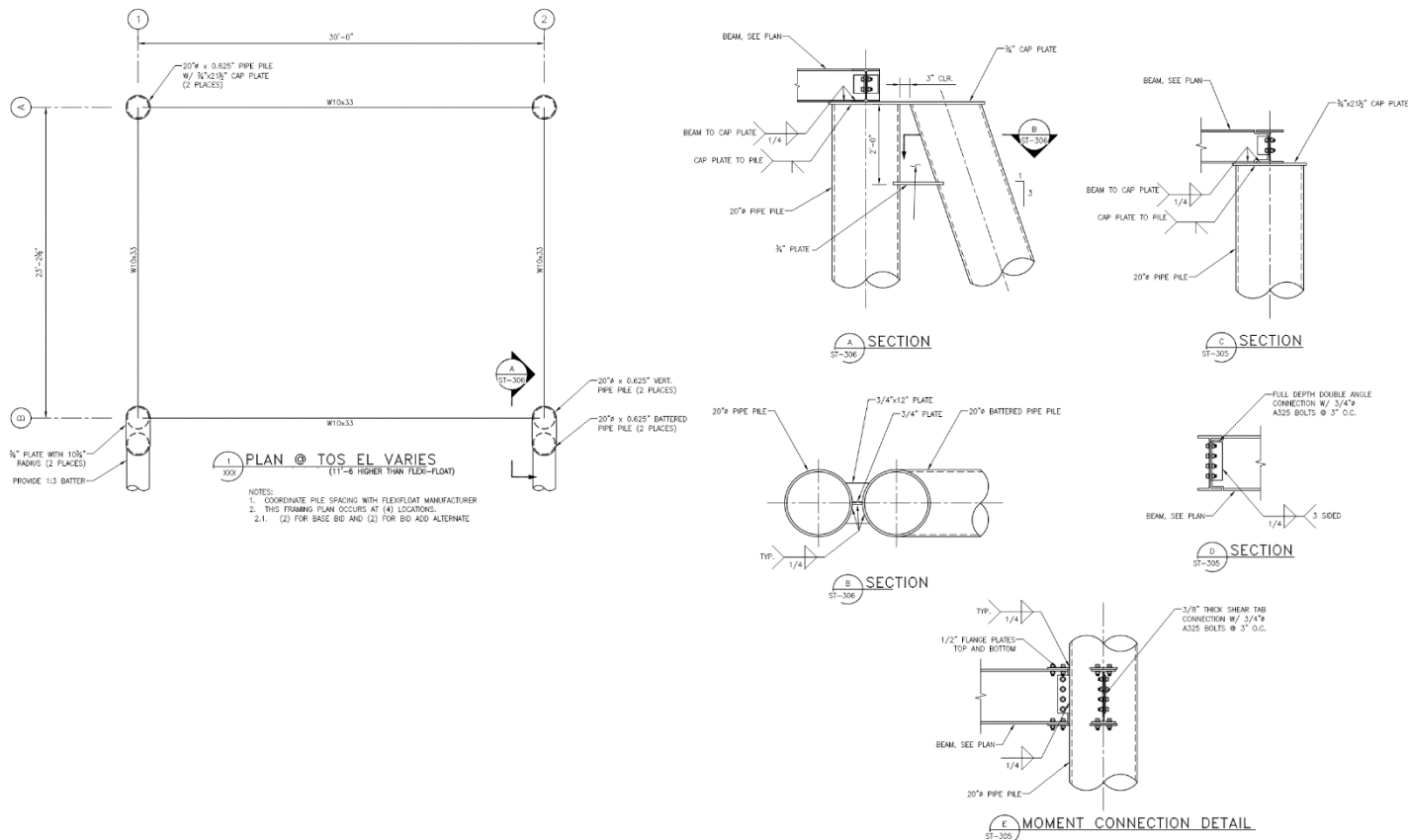
DRAWING NO.
230428-PERM-010

LONG:
91°24'45.45"W

OWNER NO.
2166

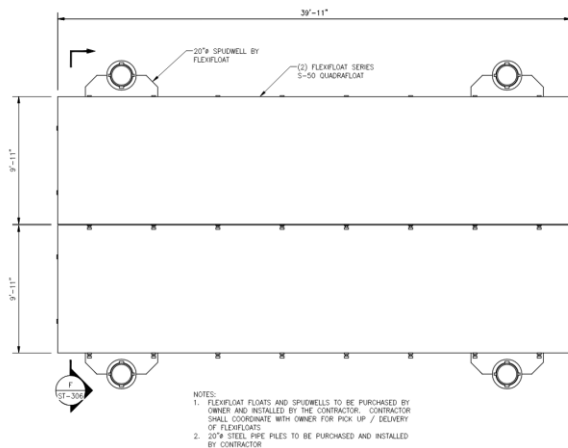
DATE:
06/20/2023

REV.
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FLEXI-FLOAT SUPPORT FRAMING PLAN, SECTIONS & DETAILS

SCALE: N.T.S.



FLEXI-FLOAT PLAN VIEW

SCALE: N.T.S.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**ISSUED
FOR
PERMIT**

hargrove
engineers & constructors

Hargrove and Associates Inc.
17 Park of Commerce Blvd - Ste 200
Savannah, GA 31405
912.239.1411 - hargrove-epc.com

APPLICATION BY:
VIKING USA, LLC
5700 CANOGA AVE, SUITE 200
WOODLAND HILLS, CA 91367

PURPOSE:
EMBARKATION FACILITY

PROPOSED ACTIVITY:
DOCKING RIVER CRUISE VESSELS

**FLEXI-FLOAT SUPPORT
FRAMING PLAN, SECTIONS &
DETAILS**

STATE:
MISSISSIPPI

COUNTY OF:
ADAMS

DRAWN BY: DATE:
JAS 06/19/2023

CHECKED BY: DATE:
RMD 06/19/2023

SCALE:
AS NOTED

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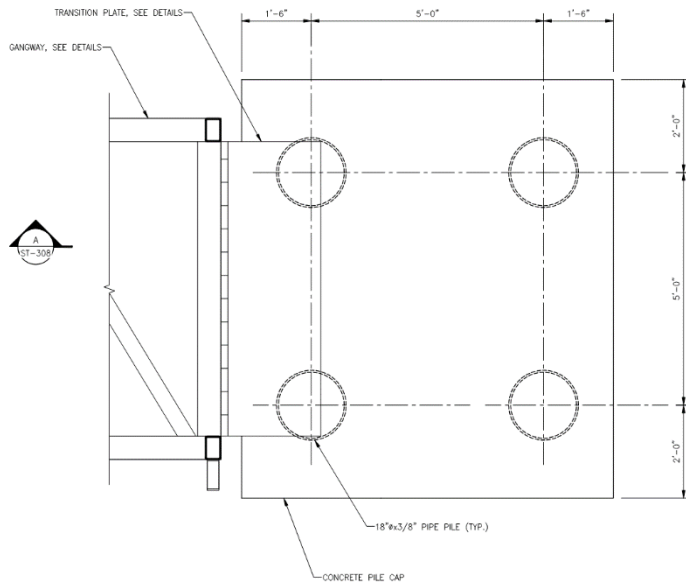
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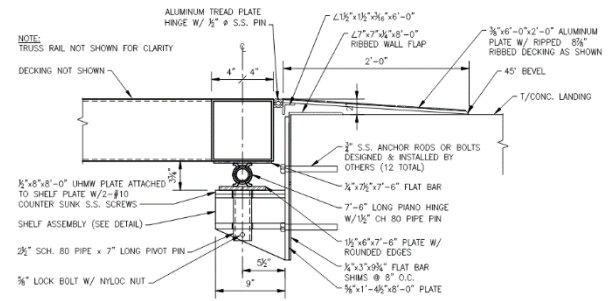
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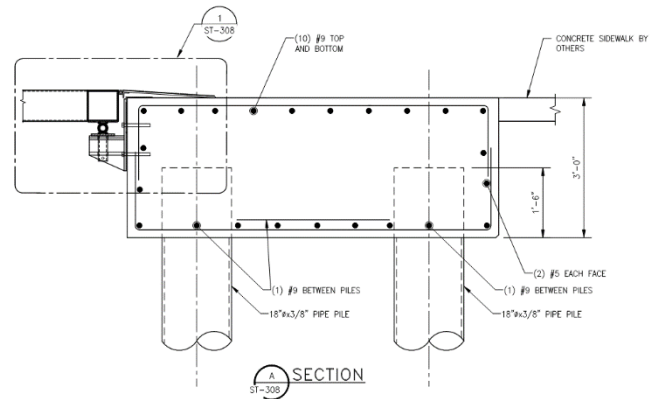
REV.
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FOUNDATION PLAN VIEW @ SHORE



DETAIL



SECTION

FOUNDATION @ SHORE PLAN, DETAIL & SECTIONS

SCALE: N.T.S.

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0

Passing Vessel Characteristics Summary (from Application Package):

Table 4 *Passing Vessel Characteristic Summary*

Parameter	Value
Vessel Type	Towing Vessel
Length Over All (LOA)	477 m (1,565.0 ft)
Beam	55 m (180.4 ft)
Draft (Loaded)	3.6 m (11.8 ft)



Figure 6 *Passing Vessel Tracks*

Pile Location Schedule:

B = Mooring Dolphin

F = Breasting Dolphin

P = Spud Pile for Flexi-Float System

PILE SCHEDULE (Reference system: SPC MS W-2302)										
PILE NO.	PILE DESCRIPTION	X (Imperial with decimals)	X (Metric, in m)	Y (Imperial with decimals)	Y (Metric, in m)	CUTOFF ELEVATION	TIP ELEVATION	PILE BATTER	Latitude	Longitude
B1	72"Ø x 1.5"	1960394.677	597528.2974	750681.400	228807.6906	83'-0"	-100'-0"	PLUMB	31.5594522084	-91.4126648817
B2	72"Ø x 1.5"	1960249.946	597484.1834	750654.310	228799.4336	83'-0"	-100'-0"	PLUMB	31.5593738257	-91.41312860953
B3	72"Ø x 1.5"	1960178.153	597462.3012	750620.940	228789.2626	83'-0"	-100'-0"	PLUMB	31.5592801599	-91.4133579986
B4	72"Ø x 1.5"	1960083.527	597433.4590	750576.957	228775.8563	83'-0"	-100'-0"	PLUMB	31.5591567003	-91.4136603522
B5	72"Ø x 1.5"	1960018.395	597413.6069	750546.683	228766.6289	83'-0"	-100'-0"	PLUMB	31.5590717129	-91.4138684626
B6	72"Ø x 1.5"	1959924.129	597384.8745	750508.720	228755.0577	83'-0"	-100'-0"	PLUMB	31.5589648202	-91.4141698495
F1	72"Ø x 1.5"	1960281.180	597403.7035	750681.316	228807.6651	83'-0"	-100'-0"	PLUMB	31.5594489012	-91.4130292007
F2	72"Ø x 1.5"	1960243.776	597482.3029	750667.621	228803.4909	83'-0"	-100'-0"	PLUMB	31.5594102462	-91.4131488316
F3	72"Ø x 1.5"	1960171.984	597460.4206	750634.252	228793.3199	83'-0"	-100'-0"	PLUMB	31.5593165804	-91.4133782247
F4	72"Ø x 1.5"	1960120.103	597444.6072	750610.136	228785.9695	83'-0"	-100'-0"	PLUMB	31.5592488892	-91.4135439973
F5	72"Ø x 1.5"	1960077.357	597431.5784	750590.268	228779.9137	83'-0"	-100'-0"	PLUMB	31.5591931207	-91.4136805787
F6	72"Ø x 1.5"	1960012.225	597411.7263	750559.994	228770.6862	83'-0"	-100'-0"	PLUMB	31.5591081433	-91.4138886892
F7	72"Ø x 1.5"	1959951.039	597393.0766	750531.554	228762.0176	83'-0"	-100'-0"	PLUMB	31.5590283126	-91.4140841938
P1	24"Ø x 1"	1960327.829	597507.9222	750678.248	228806.7301	87'-6"	-73'-0"	PLUMB	31.5594417343	-91.4128793610
P2	24"Ø x 1"	1960340.684	597511.8405	750651.222	228798.4924	87'-6"	-73'-0"	PLUMB	31.5593677981	-91.4128372404
P3	24"Ø x 1"	1960306.090	597501.2963	750667.907	228803.5782	87'-6"	-73'-0"	PLUMB	31.5594127224	-91.4129488138
P4	24"Ø x 1"	1960318.946	597505.2147	750640.882	228795.3409	87'-6"	-73'-0"	PLUMB	31.5593387900	-91.4129066919
P5	24"Ø x 1"	1960304.544	597500.8250	750667.069	228803.3226	87'-6"	-73'-0"	1H:3V	31.5594103758	-91.4129537511
P6	24"Ø x 1"	1960317.399	597504.7432	750640.842	228795.0849	87'-6"	-73'-0"	1H:3V	31.5593364396	-91.4129116304
P7	24"Ø x 1"	1960374.134	597522.0360	750580.907	228777.0605	87'-6"	-55'-0"	PLUMB	31.5591754395	-91.4127276421
P8	24"Ø x 1"	1960386.989	597525.9543	750553.881	228768.8229	87'-6"	-55'-0"	PLUMB	31.5591015032	-91.4126855217
P9	24"Ø x 1"	1960352.394	597515.4098	750570.567	228773.9087	87'-6"	-55'-0"	PLUMB	31.5591464282	-91.4127970982
P10	24"Ø x 1"	1960305.250	597519.3280	750543.540	228765.6711	87'-6"	-55'-0"	PLUMB	31.5590724919	-91.4127549778
P11	24"Ø x 1"	1960350.801	597514.9242	750569.748	228773.6593	87'-6"	-55'-0"	1H:3V	31.5591441358	-91.4128021858
P12	24"Ø x 1"	1960303.657	597518.8425	750542.722	228765.4217	87'-6"	-55'-0"	1H:3V	31.5590701999	-91.4127600654