



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVENUE
NEW ORLEANS LA 70118-3651

September 18, 2023

Regulatory Division
Eastern Evaluation Branch

Project Manager:
Carrie Schott
(504) 862-1153
Carrie.G.Schott@usace.army.mil

Application #: MVN-2023-00199-ECS

PUBLIC NOTICE

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344), and/or [X] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408).

DOCK FACILITY ON THE MISSISSIPPI RIVER IN PLAQUEMINES PARISH

NAME OF APPLICANT: Edison Chouest Offshore, c/o: GIS Engineering, LLC, Attn.: Mr. Mohen Menon, 450 Laurel Street, Ste. 1500, Baton Rouge, LA 70801.

LOCATION OF WORK: Located on the westbank bank or right descending bank of the Mississippi River near mile marker 53 and adjacent to Louisiana Highway 23, Port Sulfur, in Plaquemines Parish, Louisiana, (lat. 29.598481, long. -89.853215), as shown on the attached drawings. (Hydrologic Unit Code: 08090301; Lower Mississippi River and 08070100; Mississippi River Basin).

CHARACTER OF WORK: The proposed project includes the clearing, grading, excavating, and depositing fill for the construction of a road, bridge, gangway, and dock that will support the proposed Galliano Marine Plaquemines Dock. The purpose of the project is to assist with the restocking and refueling of tugboats as they travel through the Mississippi River. The project as proposed would directly impact 1.039 acres (permanently) of jurisdictional wetlands.

MITIGATION: The applicant proposed to contract with an approved mitigation bank in order to offset the adverse impact to jurisdictional wetlands, should a DA permit be issued.

The comment period on the requested Department of the Army Permit will close **30 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the Corps of Engineer's project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGE, Carrie Schott**. The Branch Chief will review the request and the requester will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous and inclusive of the initial comment period and will not exceed a total of 30 calendar days. This public notice is also available for review online at <https://go.usa.gov/xennJ>

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, 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, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

This request will also be reviewed pursuant to Section 408 and USACE Engineering Circular (EC) 1165-2-220, which provides policy and procedural guidance for processing requests to alter USACE civil works projects.

The decision whether to grant permission for the requested alteration will be based on several factors. The benefits that reasonably may be expected to accrue from the proposal will be balanced against its reasonably foreseeable detriments. Review of the requests for modification will be reviewed by a USACE technical review team considering the following factors:

- 1) Potential to Impair the Usefulness of the Project. Proposed alterations will be reviewed to determine whether the alteration would limit the ability of the USACE project to function as authorized, or would compromise or change any authorized project conditions, purposes or outputs. If USACE determines that the usefulness of the authorized project would be impaired, the request will be denied.

2) Potential to be Injurious to the Public Interest. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. This evaluation will consider information received from the interested parties, including tribes, agencies, and the public. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

The U.S. Army Corps of Engineers 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 U.S. Army Corps of Engineers to determine whether to make, 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 other public interest factors listed above. 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. Further, all factors that may be relevant to the proposal will be considered, including the potential cumulative effects associated with the proposed project. The Section 408 review will consider the potential impact to the usefulness of the Federal project and whether the proposed alteration would be injurious to the public interest. Policy and legal compliance will also be considered.

The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. As deemed necessary, copies of this public notice will be sent to the State Archeologist, State Historic Preservation Officer, and federally listed tribes regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would have no effect on any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any such species.

The New Orleans District has determined that the work is located in waters known to be utilized by the endangered Pallid Sturgeon (*Scaphirhynchus albus*) and the threatened West Indian Manatee (*Trichechus manatus*) and provided the determination that the activity is not likely to adversely affect these species based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed

on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of 0 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the LA Department of Environmental Quality before a Department of the Army permit is issued.

Any person may request, (preferably by email to the project manager, or 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.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program (Louisiana Coastal Zone Application P20230414). The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Brad P. Laborde
Chief, Eastern Evaluation Branch
Regulatory Division

Enclosures



ENGINEERING LLC

Coastal Design & Infrastructure
 197 Elysian Drive
 Houma, LA 70363
 O: (985) 219-1000 | F: (985) 475-7014

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REVISIONS

No.	Description	Date

PRELIMINARY

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ENGINEER'S NAME
 LA. LICENSE NO. 00000

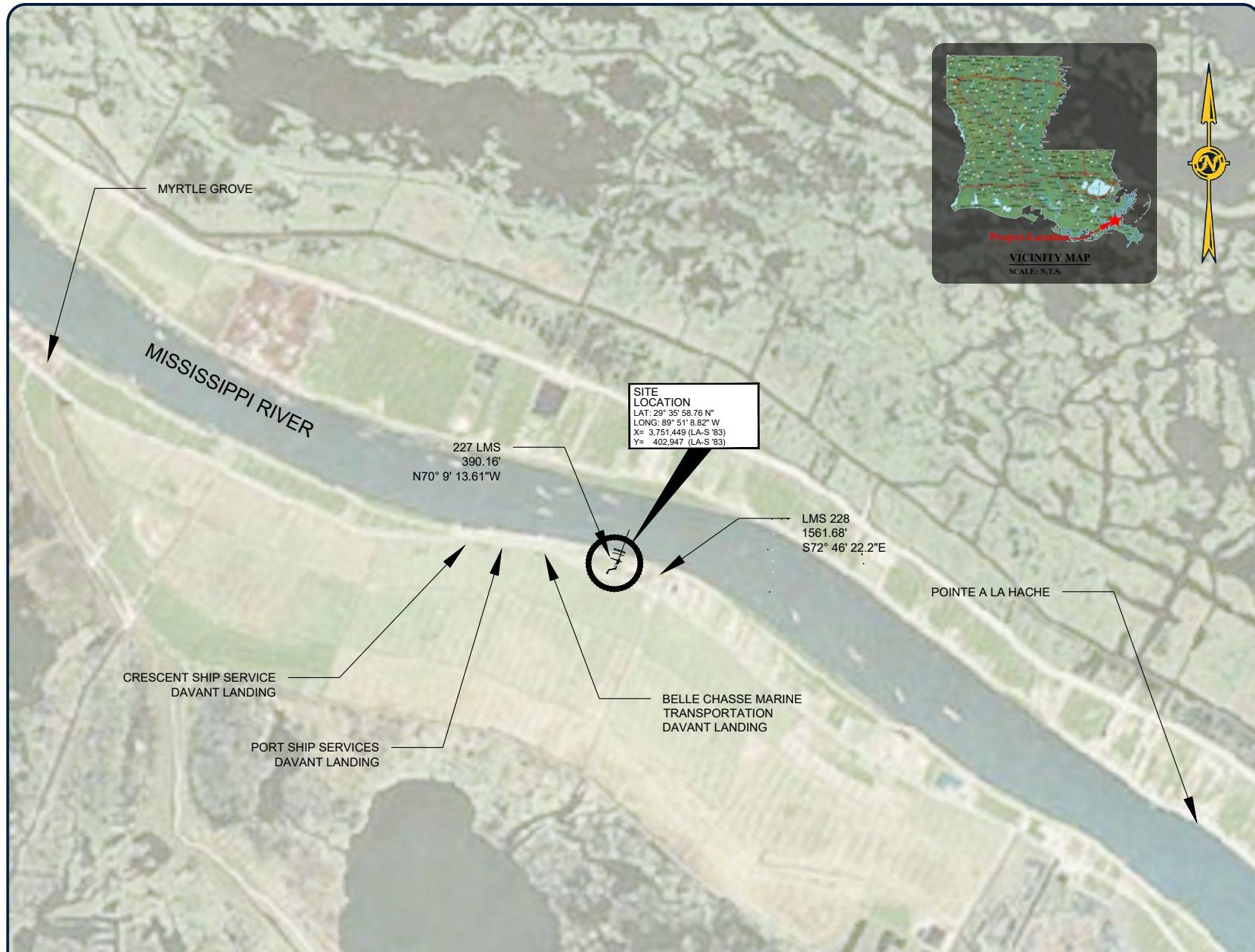
EDISON CHOUEST OFFSHORE

GALLIANO MARINE PLAQUEMINES DOCK

VICINITY MAP

Project number	39130-1395
Date	MAY 2023
Designed by	BKR
Drawn by	KES
Checked by	JMH
Checked by	XXX
Plot Date	August 16, 2023

01



SITE LOCATION
 LAT: 29° 35' 58.76" N
 LONG: 89° 51' 8.82" W
 X= 3,751,449 (LA-S '83)
 Y= 402,947 (LA-S '83)

227 LMS
 390.16'
 N70° 9' 13.61"W

LMS 228
 1561.68'
 S72° 46' 22.2"E

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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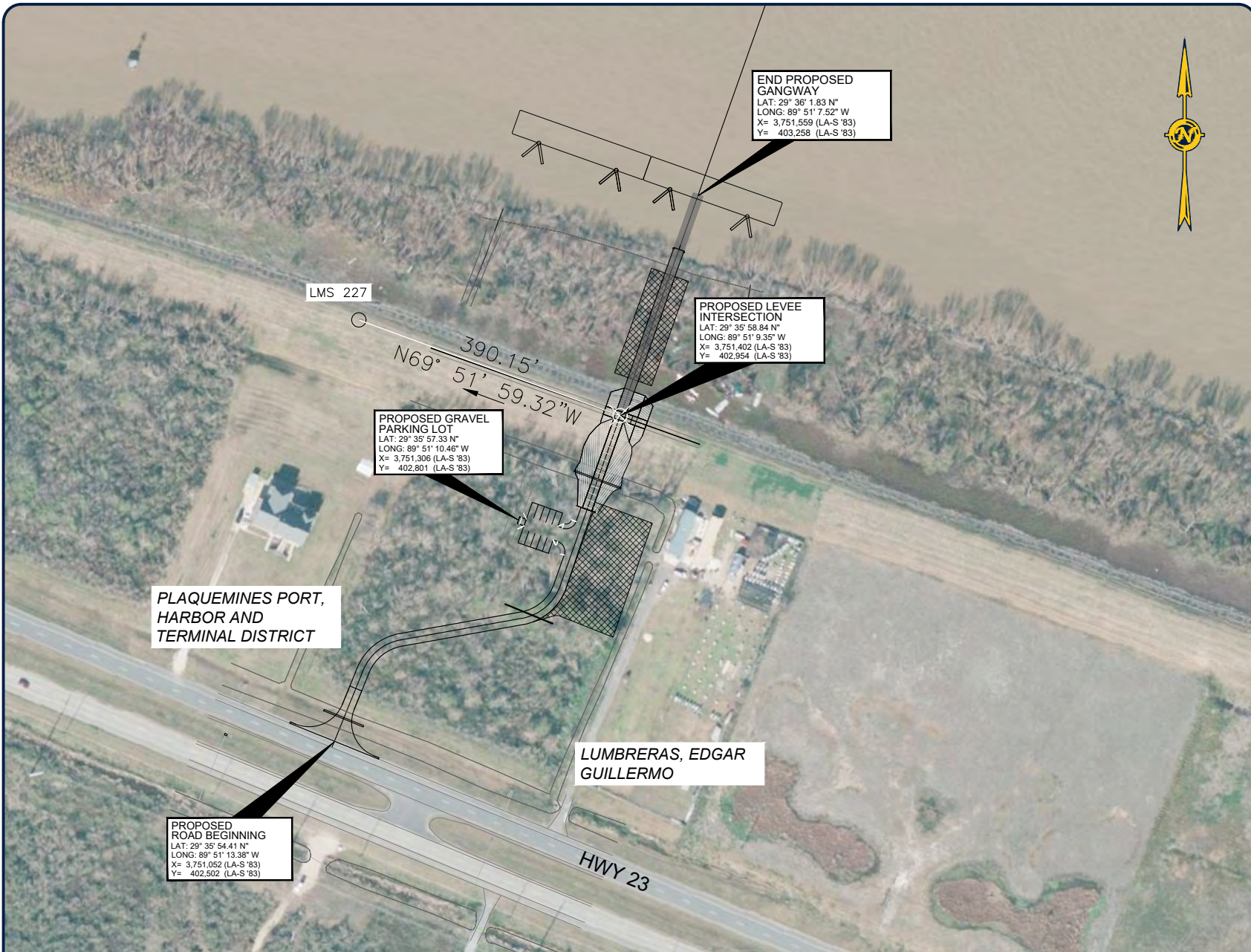
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GALLIANO MARINE PLAQUEMINES DOCK

PLAN VIEW

Project number	39130-1395
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02



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

 PROPOSED STAGING AND WORK AREAS



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GALLIANO MARINE PLAQUEMINES DOCK

**WETLAND
 DISTRIBUTION**

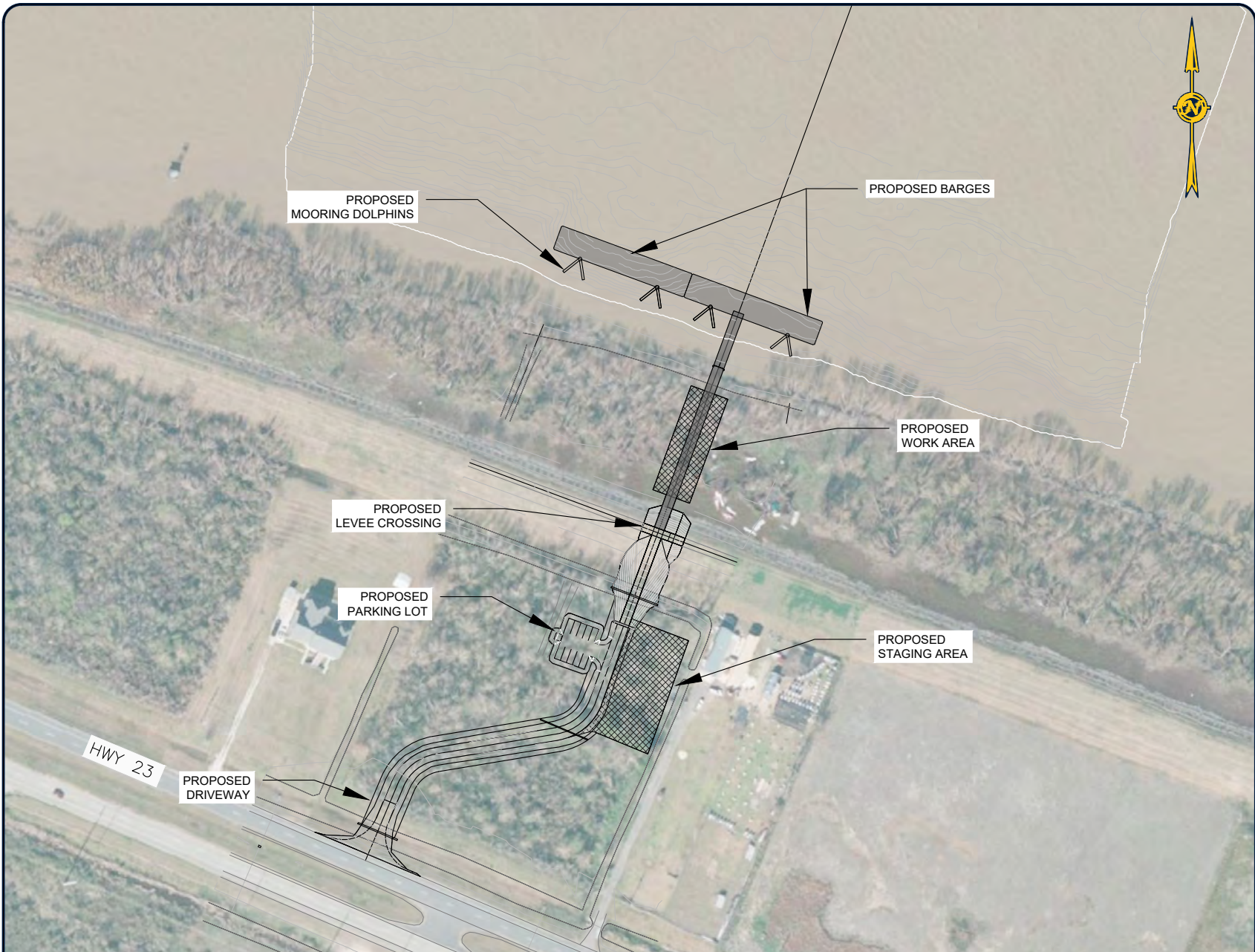
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-  SECTION 404 WETLANDS: 0.794 ACRES IN PROJECT FOOTPRINT
-  SECTION 10/404 WETLANDS: 0.245 ACRES IN PROJECT FOOTPRINT
-  SECTION 404 WATERS: 0.083 ACRES IN PROJECT FOOTPRINT
-  PROPOSED STAGING AND WORK AREAS



PROJECT FOOTPRINT INCLUDES PROPOSED DRIVEWAY, ROAD, CLEARING LIMITS BRIDGE, GANGWAY, PARKING LOT, LEVEE CROSSING, BARGES, STAGING AREA, AND WORK AREA.



PROPOSED MOORING DOLPHINS

PROPOSED BARGES

PROPOSED WORK AREA

PROPOSED LEVEE CROSSING

PROPOSED PARKING LOT

PROPOSED STAGING AREA

PROPOSED DRIVEWAY

HWY 23

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 PROPOSED STAGING AND WORK AREAS



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**EDISON CHOUEST
 OFFSHORE**

GALLIANO MARINE PLAQUEMINES DOCK

SITE PLAN

Project number	39130-1395
Date	MAY 2023
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Drawn by	KES
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Plot Date	August 16, 2023

04

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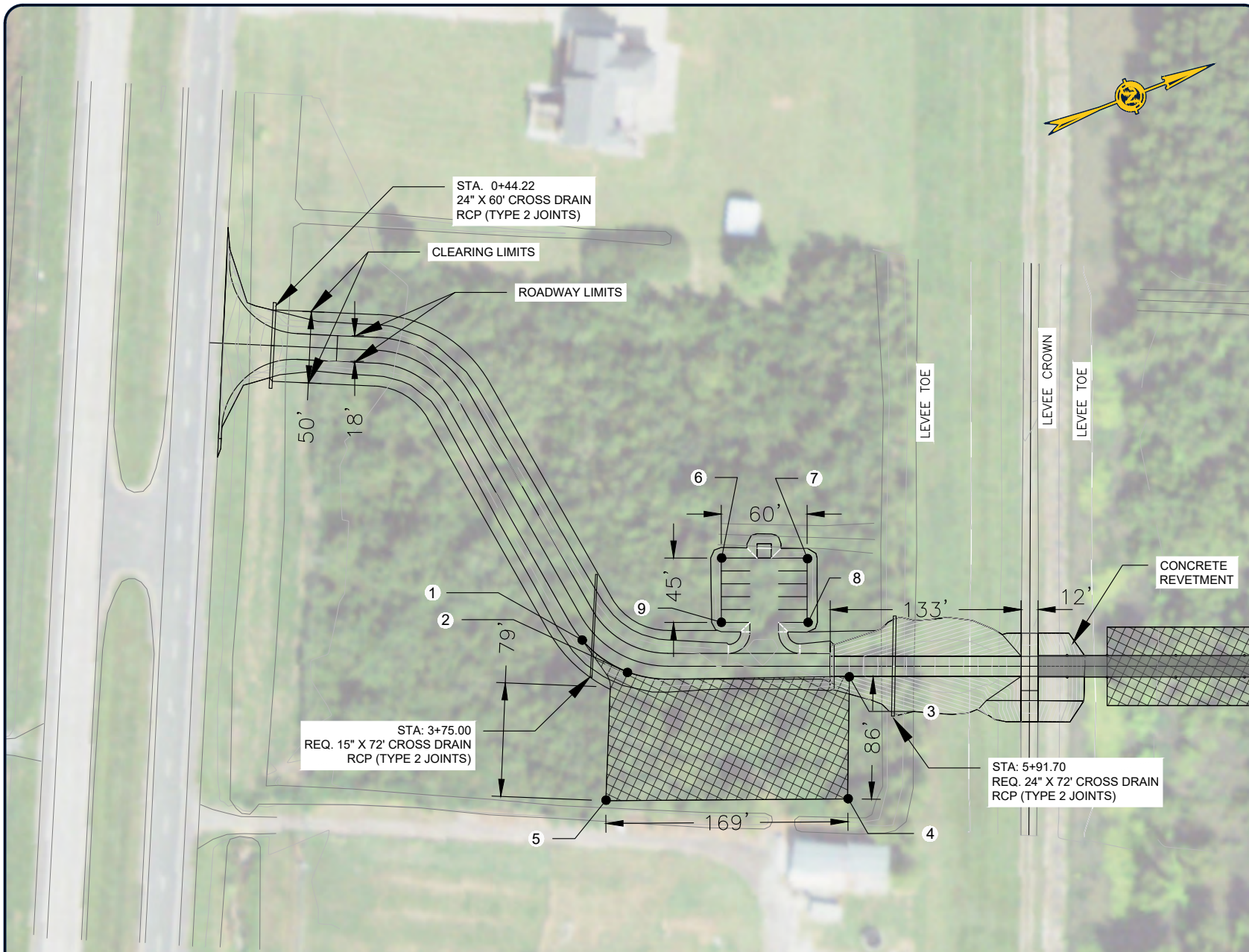
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GALLIANO MARINE PLAQUEMINES DOCK

DETAILED SITE PLAN PROPOSED ROAD, PARKING LOT, AND BRIDGE

Project number	39130-1395
Date	MAY 2023
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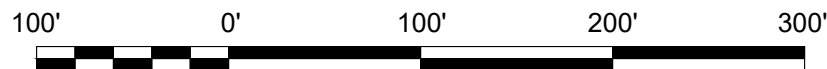
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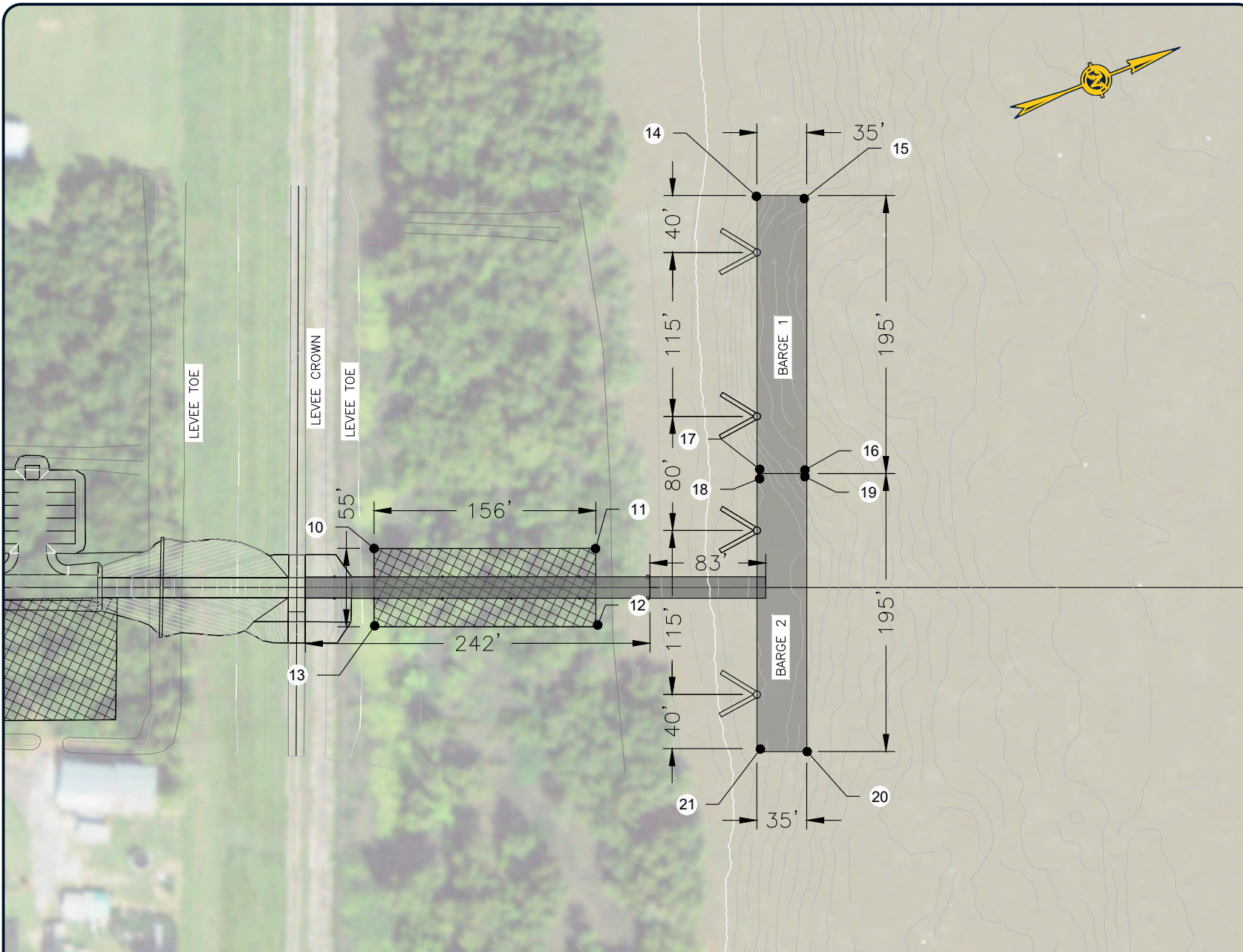


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SEE SHEET 07 FOR POINT COORDINATES

 PROPOSED STAGING AND WORK AREAS

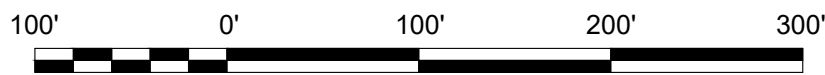




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 PROPOSED STAGING AND WORK AREAS




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GALLIANO MARINE PLAQUEMINES DOCK

**DETAILED SITE PLAN
PROPOSED BRIDGE,
GANGWAY, AND
BARGES**

Project number	39130-1395
Date	MAY 2023
Designed by	BKR
Drawn by	KES
Checked by	JMH
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Plot Date	August 16, 2023

06

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GALLIANO MARINE PLAQUEMINES DOCK

POINT COORDINATE TABLE

Project number	39130-1395
Date	MAY 2023
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07

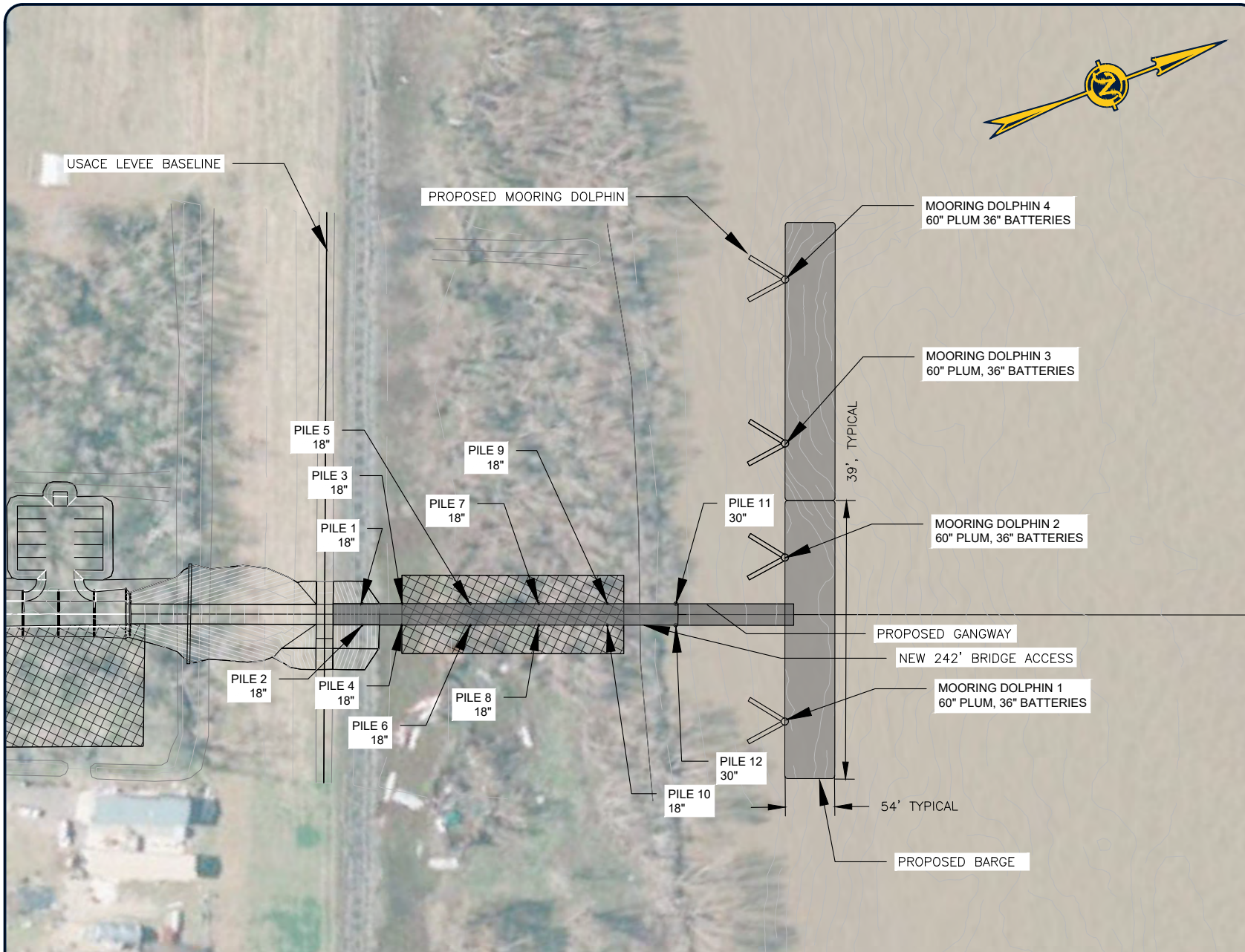
POINT COORDINATES

	POINT NUMEBR	X-COORDINATE	Y-COORDINATE	LATTITUDE	LONGITUDE
STAGING AREA	POINT 1	3751327.35	402658.11	N29°35'55.92"	W89°51'10.23"
	POINT 2	3751359.96	402681.6	N29°35'56.15"	W89°51'09.86"
	POINT 3	3751412.39	402825.73	N29°35'57.57"	W89°51'09.24"
	POINT 4	3751493.85	402796.14	N29°35'57.26"	W89°51'08.33"
	POINT 5	3751438.72	402636.21	N29°35'55.69"	W89°51'08.98"
PARKING LOT	POINT 6	3751305.61	402768.83	N29°35'57.02"	W89°51'10.46"
	POINT 7	3751325.41	402825.41	N29°35'57.57"	W89°51'10.23"
	POINT 8	3751368.02	402810.43	N29°35'57.42"	W89°51'09.75"
	POINT 9	3751348.04	402753.85	N29°35'56.86"	W89°51'09.99"
WORK AREA	POINT 10	3751440.83	403007.04	N29°35'59.36"	W89°51'08.90"
	POINT 11	3751492.64	403153.73	N29°36'00.80"	W89°51'08.29"
	POINT 12	3751544.5	403135.41	N29°36'00.61"	W89°51'07.71"
BARGE 1	POINT 13	3751492.7	402988.73	N29°35'59.17"	W89°51'08.31"
	POINT 14	3751297.63	403343.03	N29°36'02.70"	W89°51'10.47"
	POINT 15	3751308.89	403374.93	N29°36'03.02"	W89°51'10.34"
	POINT 16	3751491.66	403310.39	N29°36'02.35"	W89°51'08.28"
BARGE 2	POINT 17	3751480.39	403278.49	N29°36'02.04"	W89°51'08.41"
	POINT 18	3751481.5	403278.1	N29°36'02.03"	W89°51'08.40"
	POINT 19	3751492.77	403309.99	N29°36'02.35"	W89°51'08.27"
	POINT 20	3751675.53	403245.46	N29°36'01.69"	W89°51'06.21"
	POINT 21	3751664.27	403213.56	N29°36'01.37"	W89°51'06.34"

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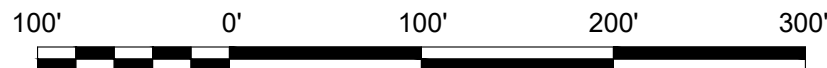
POINTS DETAILED ON SHEETS 05 AND 06

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SEE SHEET 09 FOR POINT COORDINATES



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LA. LICENSE NO. 00000

EDISON CHOUEST OFFSHORE

GALLIANO MARINE PLAQUEMINES DOCK

PILING LOCATIONS

Project number	39130-1395
Date	MAY 2023
Designed by	BKR
Drawn by	KES
Checked by	JMH
Checked by	XXX
Plot Date	August 16, 2023

08



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GALLIANO MARINE PLAQUEMINES DOCK

PILING LOCATIONS POINT TABLE

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09

PILE LOCATION COORDINATES

PILE NUMBER	X-COORDINATE	Y-COORDINATE	LATTITUDE	LONGITUDE
PILE 1	3751450	402974	N29°35'59.03"	W89°51'8.79"
PILE 2	3751465	402969	N29°35'58.98"	W89°51'8.64"
PILE 3	3751459	403000	N29°35'58.29"	W89°51'8.69"
PILE 4	3751474	402995	N29°35'59.24"	W89°51'8.53"
PILE 5	3751476	403046	N29°35'59.73"	W89°51'8.50"
PILE 6	3751490	403041	N29°35'59.68"	W89°51'8.34"
PILE 7	3751492	403090	N29°36'0.18"	W89°51'8.31"
PILE 8	3751506	403085	N29°36'0.13"	W89°51'8.15"
PILE 9	3751508	403136	N29°36'0.63"	W89°51'8.12"
PILE 10	3751522	403131	N29°36'0.58"	W89°51'7.96"
PILE 11	3751523	403181	N29°36'1.07"	W89°51'7.94"
PILE 12	3751538	403176	N29°36'1.02"	W89°51'7.78"
MOORING DOLPHIN 1	3751627	403226	N29°36'1.50"	W89°51'6.76"
MOORING DOLPHIN 2	3751518	403264	N29°36'1.89"	W89°51'7.98"
MOORING DOLPHIN 3	3751443	403291	N29°36'2.17"	W89°51'8.83"
MOORING DOLPHIN 4	3751335	403329	N29°36'2.56"	W89°51'10.05"

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POINTS ARE DETAILED ON SHEET 08

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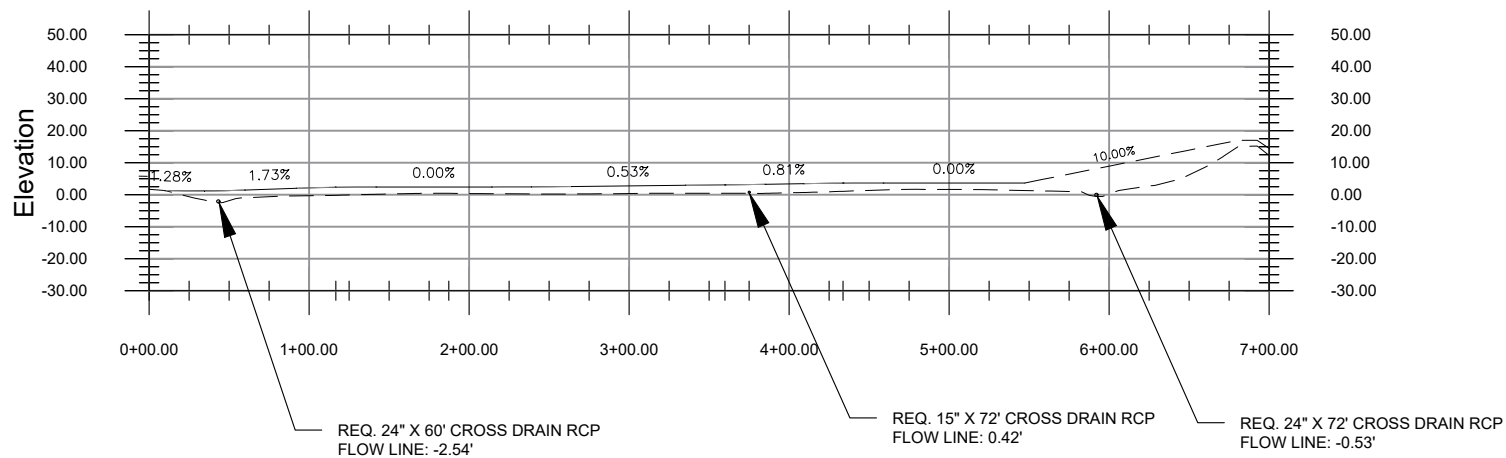
GALLIANO MARINE PLAQUEMINES DOCK

ROAD PROFILE

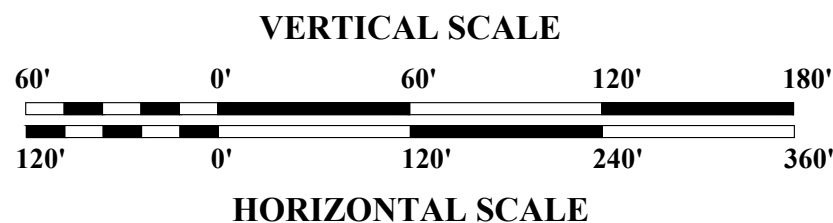
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Plot Date	August 16, 2023

10

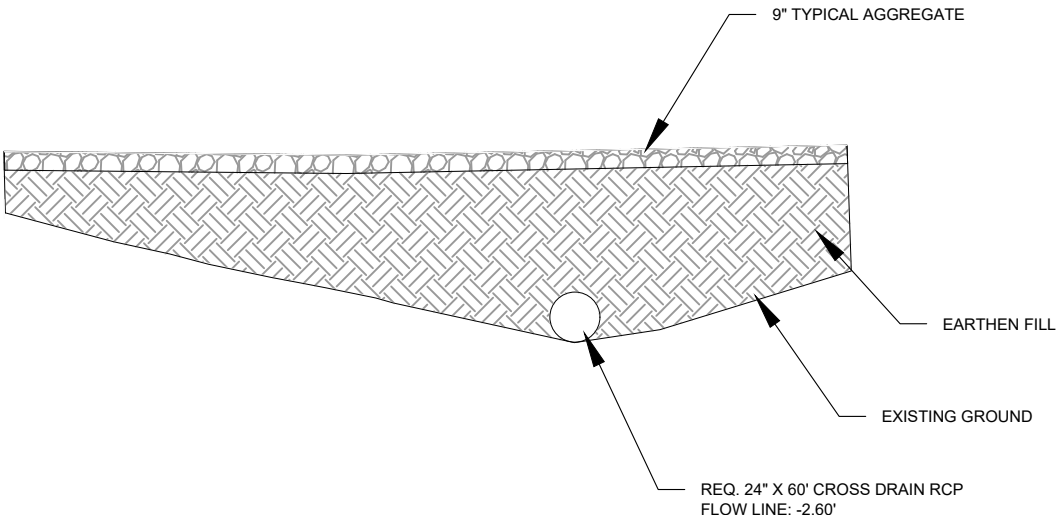
PROFILE OF ROAD CENTERLINE



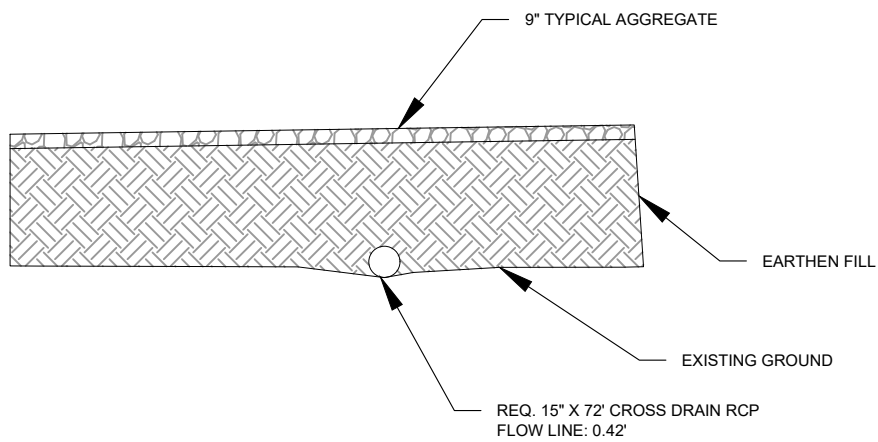
PVI = POINT OF VERTICAL INTERSECTION
 OR CHANGE IN GRADE



DRIVEWAY CULVERT
SCALE: NTS



ACCESS ROAD CULVERT
SCALE: NTS



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ENGINEER'S NAME
LA. LICENSE NO. 00000

**EDISON CHOUEST
OFFSHORE**

GALLIANO MARINE PLAQUEMINES DOCK

CULVERT DETAILS

Project number	39130-1395
Date	MAY 2023
Designed by	BKR
Drawn by	KES
Checked by	JMH
Checked by	XXX
Plot Date	August 16, 2023

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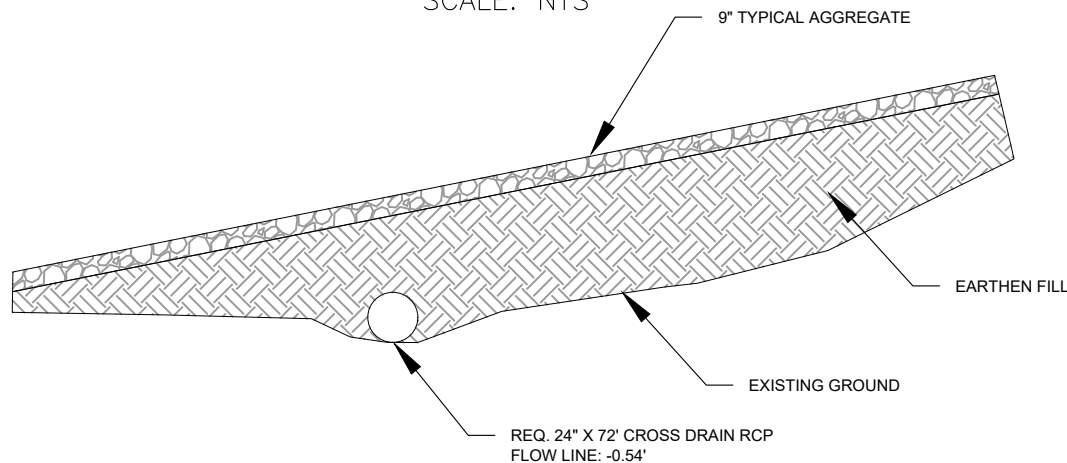
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GALLIANO MARINE PLAQUEMINES DOCK

CULVERT DETAILS

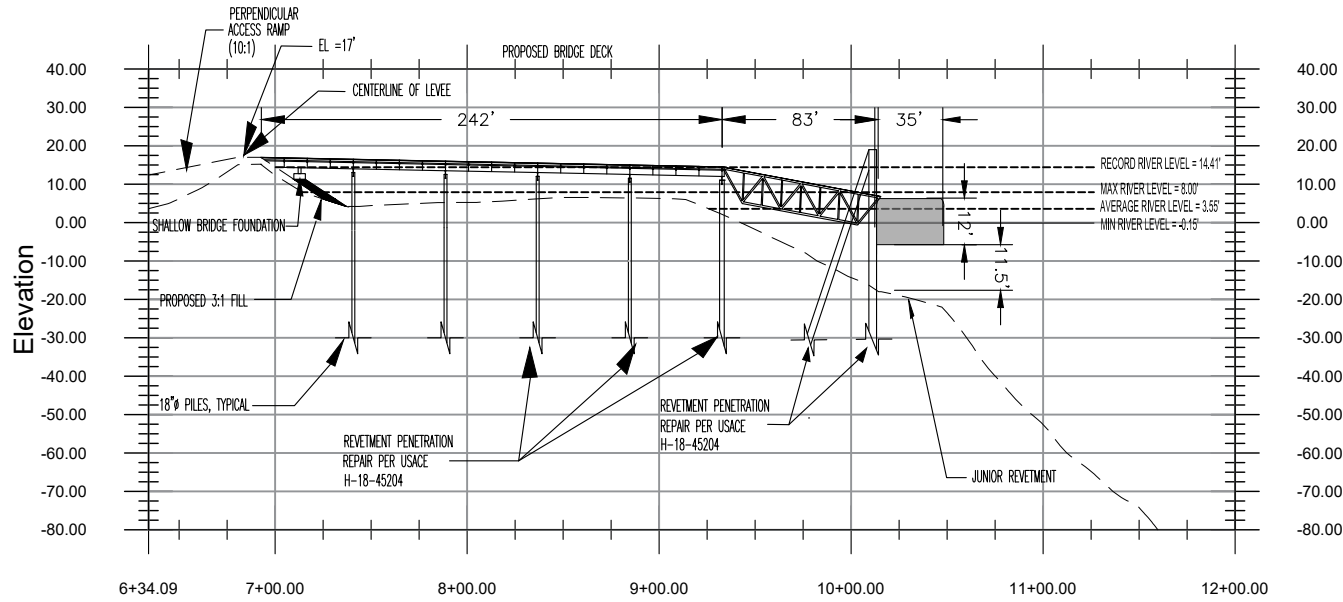
Project number	39130-1395
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ACCESS RAMP CULVERT SCALE: NTS

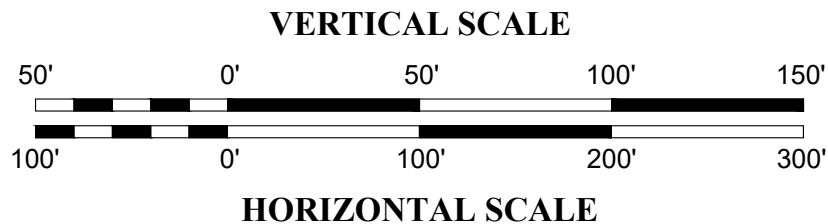


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PROFILE AT ALIGNMENT CENTERLINE



BARGE WILL RISE/FALL ACCORDING TO WATER LEVEL



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**LOW RIVER LEVEL
GANGWAY PROFILE**

Project number	39130-1395
Date	MAY 2023
Designed by	BKR
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Checked by	XXX
Plot Date	August 16, 2023

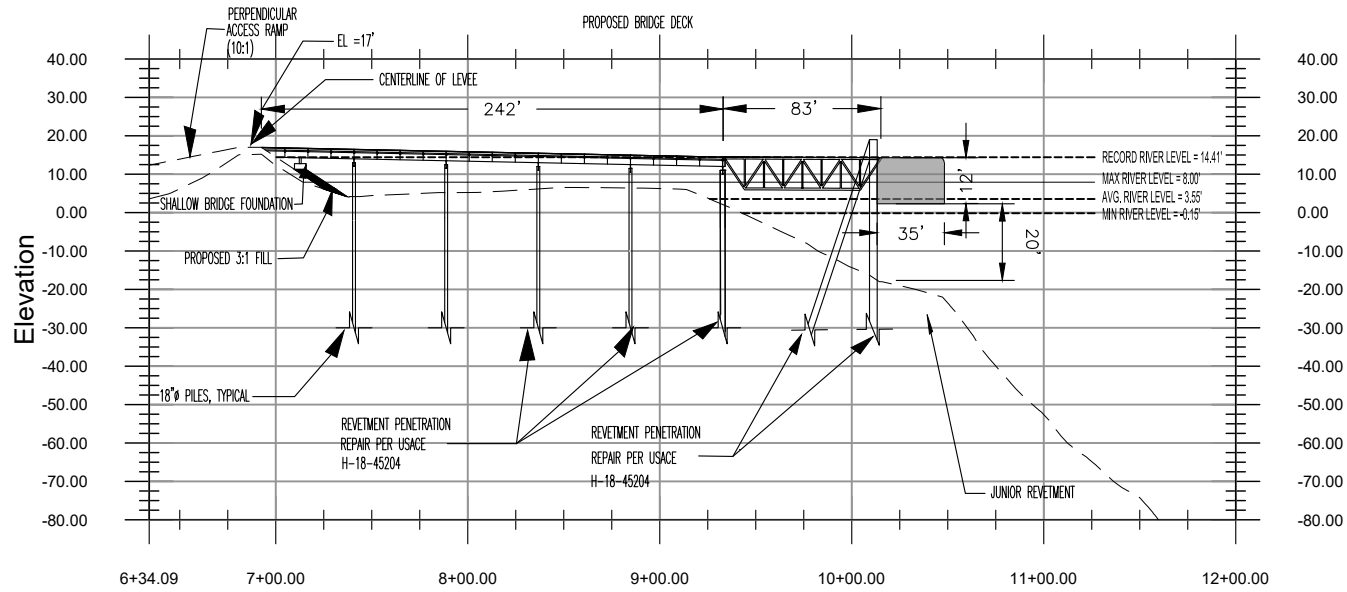


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PROFILE AT ALIGNMENT CENTERLINE



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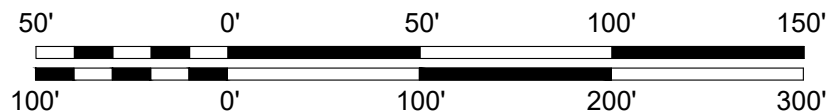
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GALLIANO MARINE PLAQUEMINES DOCK

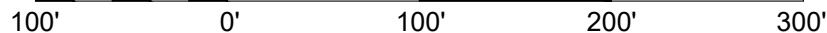
HIGH RIVER LEVEL GANGWAY PROFILE

Project number	39130-1395
Date	MAY 2023
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VERTICAL SCALE



HORIZONTAL SCALE



BARGE WILL RISE/FALL ACCORDING TO WATER LEVEL



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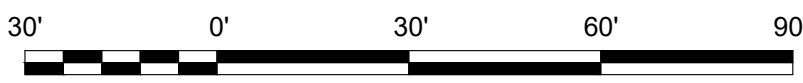
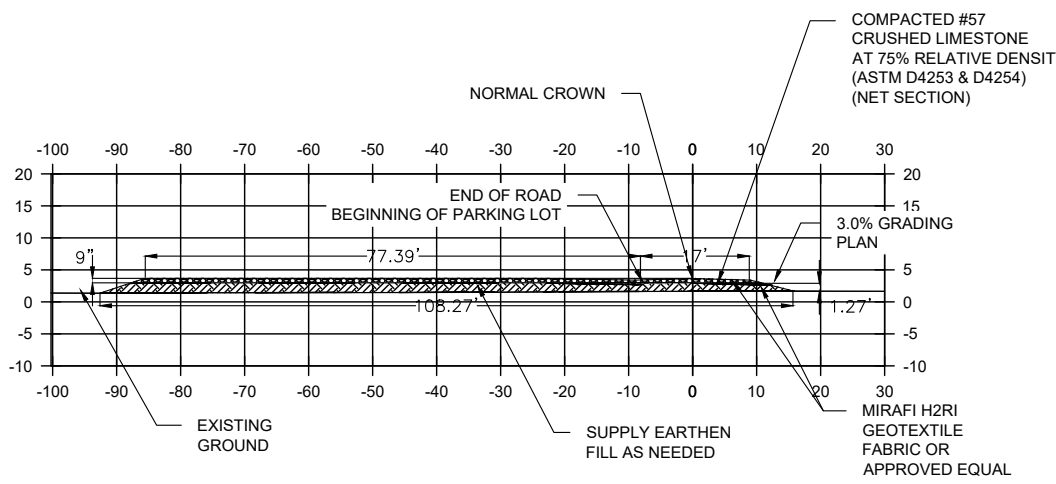
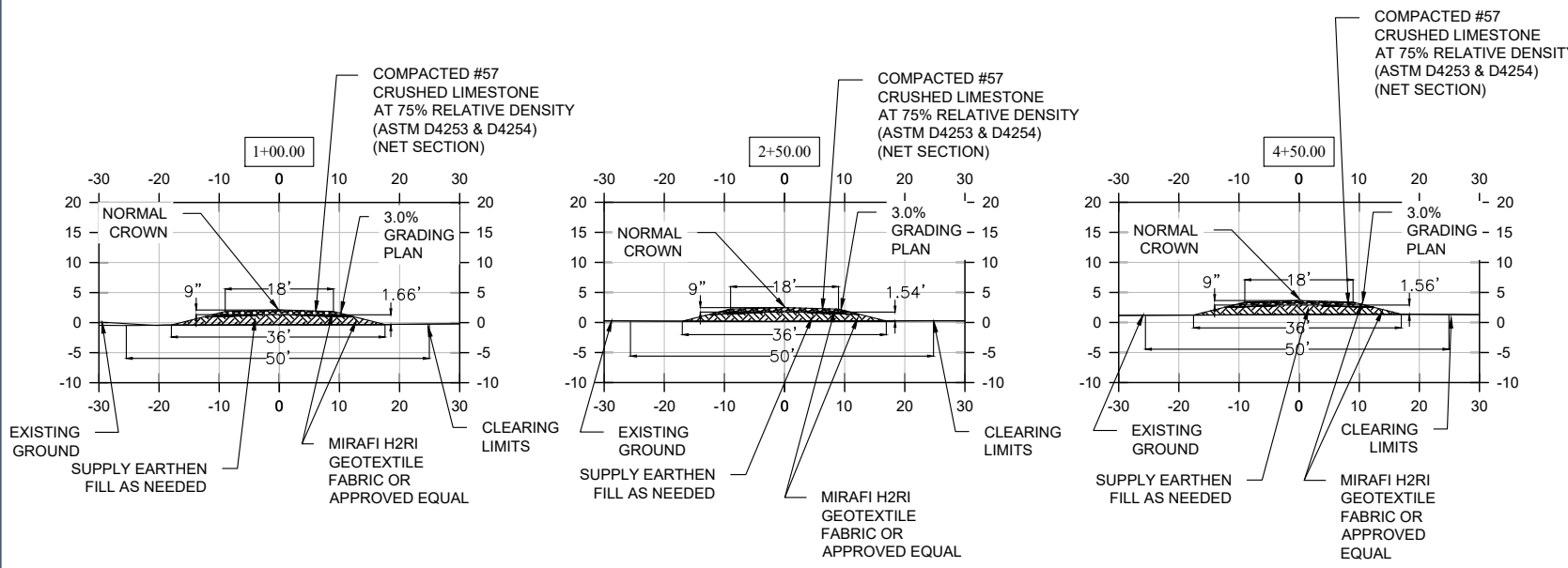
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GALLIANO MARINE PLAQUEMINES DOCK

ROAD TYPICAL SECTIONS

Project number	39130-1395
Date	MAY 2023
Designed by	BKR
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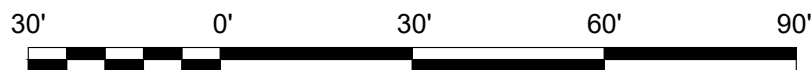
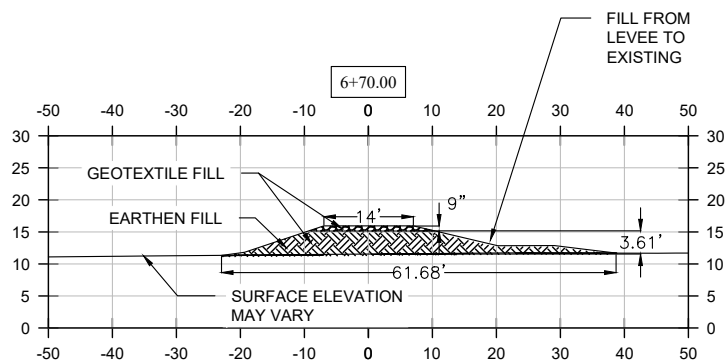
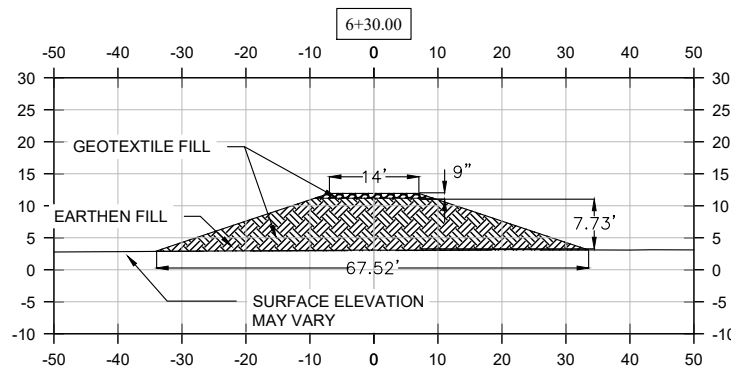
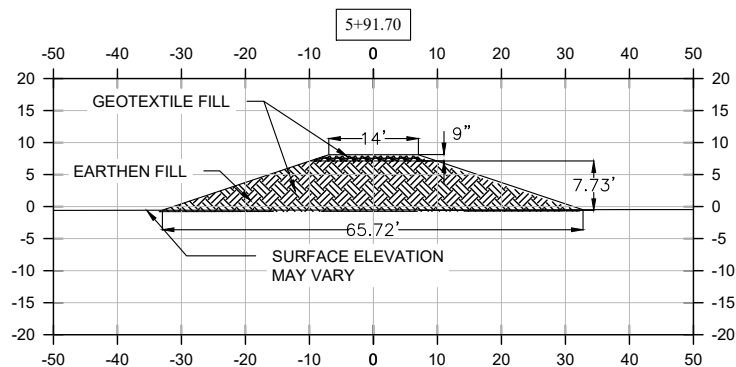
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RAMP SECTIONS

Project number	39130-1395
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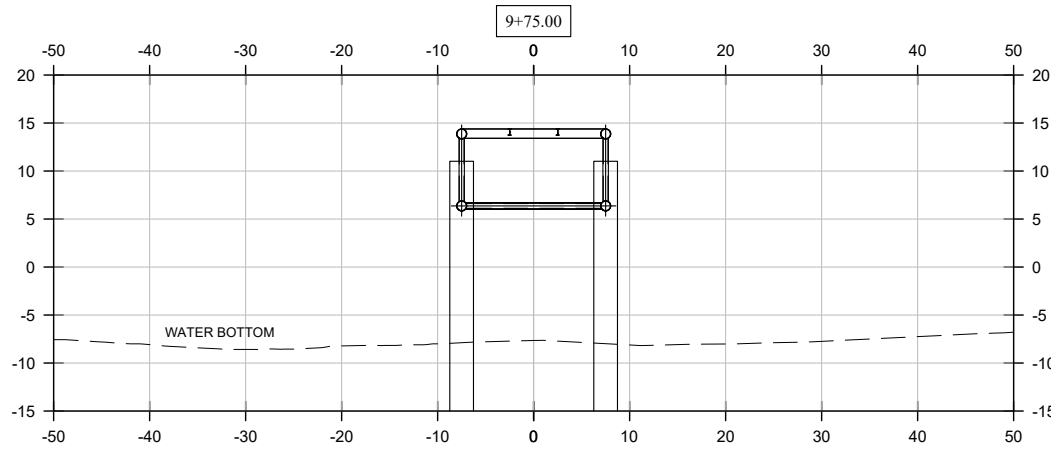
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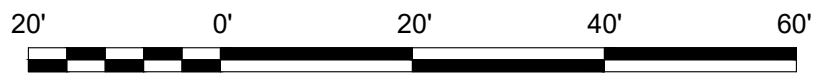
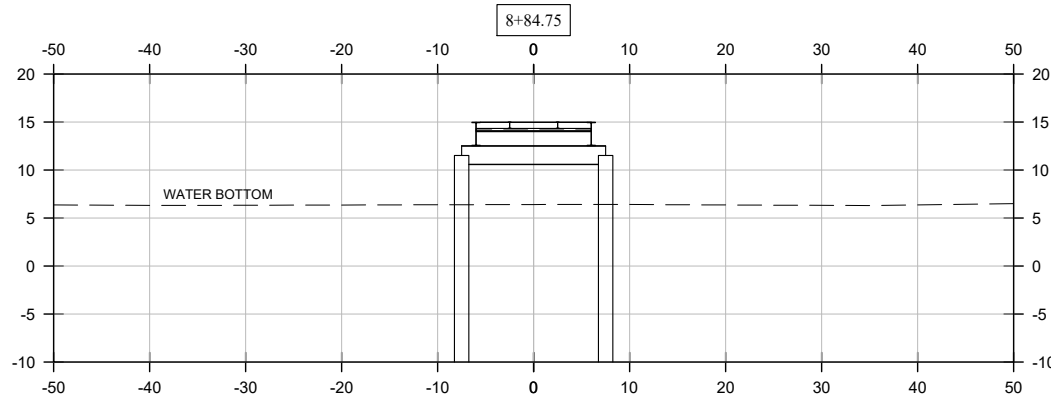
BRIDGE SECTIONS

Project number	39130-1395
Date	MAY 2023
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Checked by	JMH
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Plot Date	August 16, 2023

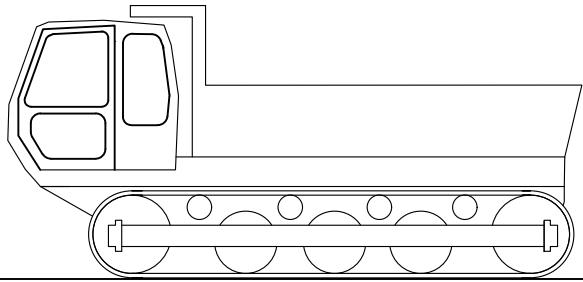
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 MAX RIVER LEVEL = 8.00'
 AVG. RIVER LEVEL = 3.55'
 MIN RIVER LEVEL = -0.15'



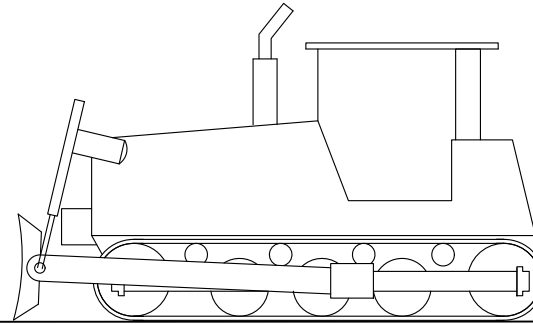
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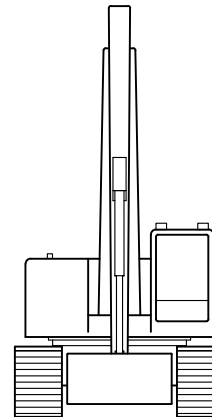
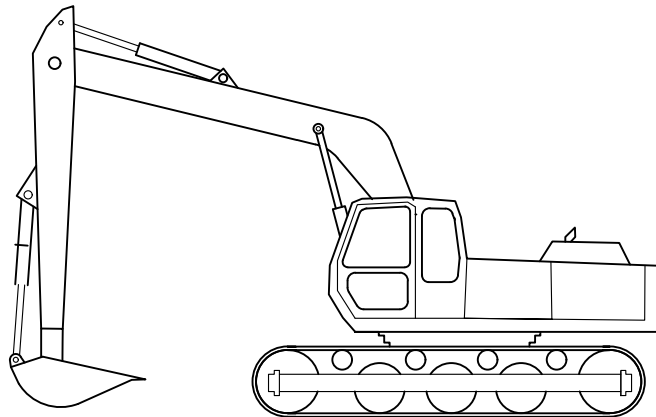
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TYPICAL TRACK TRUCK



TYPICAL DOZER



Excavator

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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**EDISON CHOUEST
OFFSHORE**

GALLIANO MARINE PLAQUEMINES DOCK

EQUIPMENT

Project number	39130-1395
Date	MAY 2023
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Drawn by	KES
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Checked by	XXX
Plot Date	August 16, 2023

PROJECT NOTES

- The proposed project will require approximately 2,821.15 cubic yards of fill material to be placed. (Concrete = 76.21 cubic yards, Crushed Stone or Gravel = 373.4 cubic yards, Hauled in Topsoil / Dirt = 2,371.54)
- The project will impact approximately 1.039 acres of wetlands (0.245 acres of section 10 / 404 wetlands and 0.794 acres of section 404 wetlands).
- Any equipment crossing the levee will comply with HS-20 loading standards.
- GIS Engineering has been in contact with LADOTD with regard to a driveway permit.

NDSI NOTES

- As-built drawings and/or plats shall have written on them the date of completion of said activities and shall be submitted to the Louisiana Department of Natural Resources, Office of Coastal Management, P. O. Box 44487, Baton Rouge, LA 70804-4487 within 30 days following project completion.
- All structures built under the authorization and conditions of this permit shall be removed from the site within 120 days of abandonment of the facilities for the herein permitted use, or when these structures fall into a state of disrepair such that they can no longer function as intended. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.
- Structures must also be marked/lighted in accordance with U. S. Coast Guard regulations.
- In order to ensure the safety of all parties, the permittee shall contact the Louisiana One Call System (1-800-272-3020) a minimum of 48 hours prior to the commencement of any excavation (digging, dredging, jetting, etc.) or demolition activity.

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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GALLIANO MARINE PLAQUEMINES DOCK

NOTES

Project number	39130-1395
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Drawn by	KES
Checked by	JMH
Checked by	XXX
Plot Date	August 16, 2023

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P20230414

Hydrologic Modification Impacts Analysis (HMIA) – Level 1

Introduction

The proposed Galliano Marine Plaquemines Dock is located on the west bank of the Mississippi River in Plaquemines Parish (**Figure 1**). The dock is being constructed to provide tug service in support of Venture Global’s Plaquemines LNG facility. The dock will be accessed from Louisiana Highway 23. An aggregate access drive will allow ingress and egress of personnel to the dedicated parking lot. To traverse the levee, a perpendicular ramp crossing will allow for vehicular crossing of the Mississippi River Levee. A vehicle-rated bridge will allow vehicles to approach a gangway that will terminate on a permanently moored captive barge, and four tugs will berth on the captive barge (**Figure 2**).

The purpose of this analysis is to provide information on how the proposed project changes would result in minor, localized changes in existing surface water flow and/or quality.

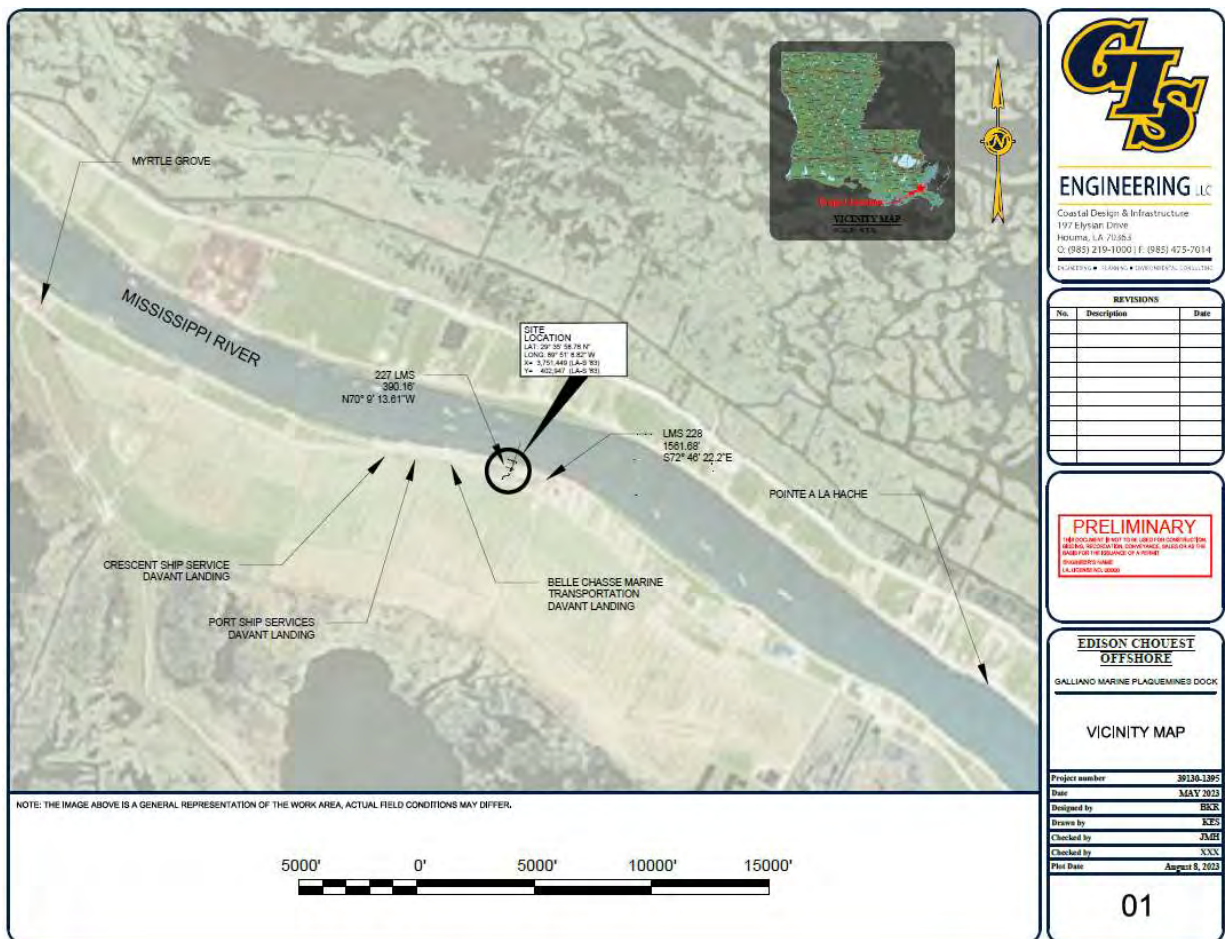


Figure 1: Proposed Project Vicinity Map

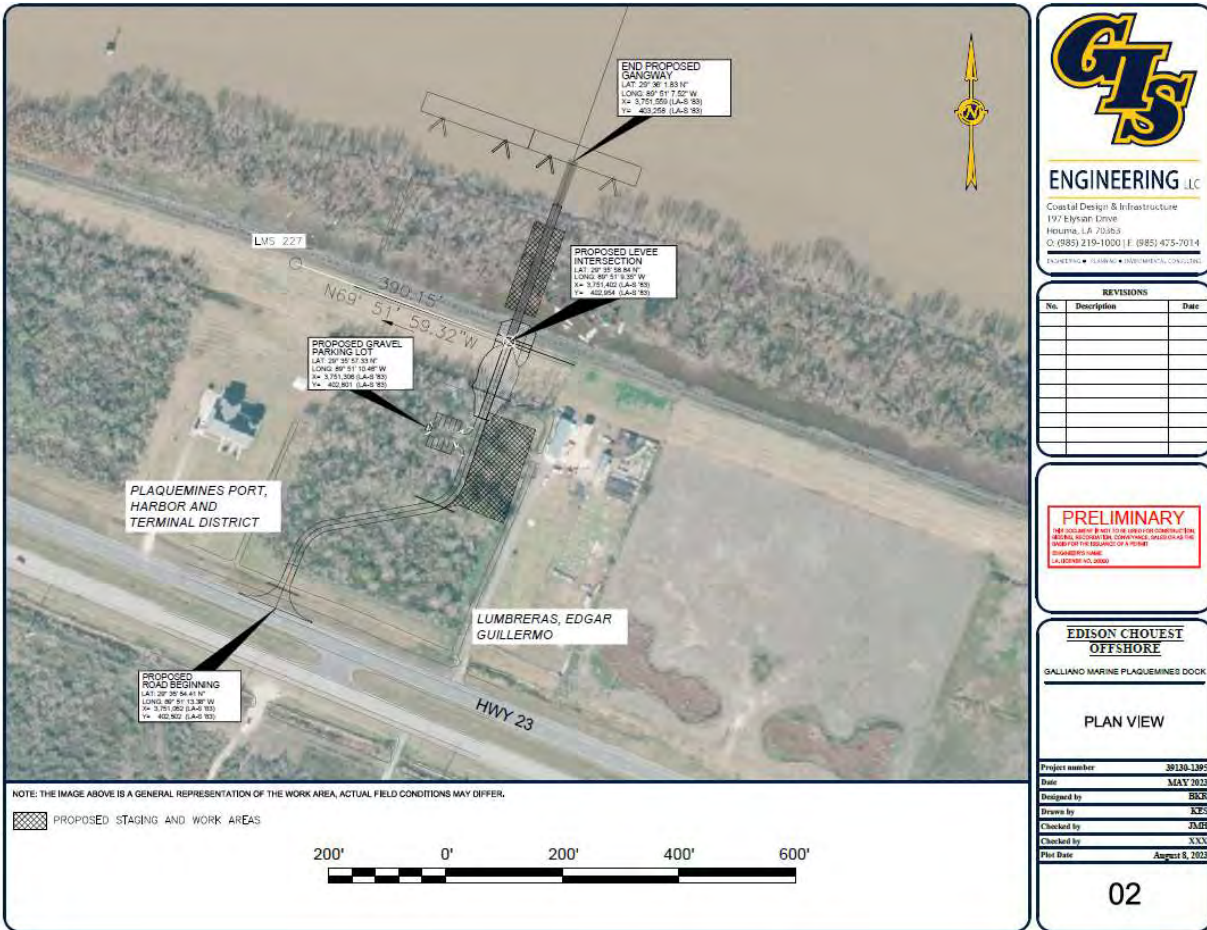
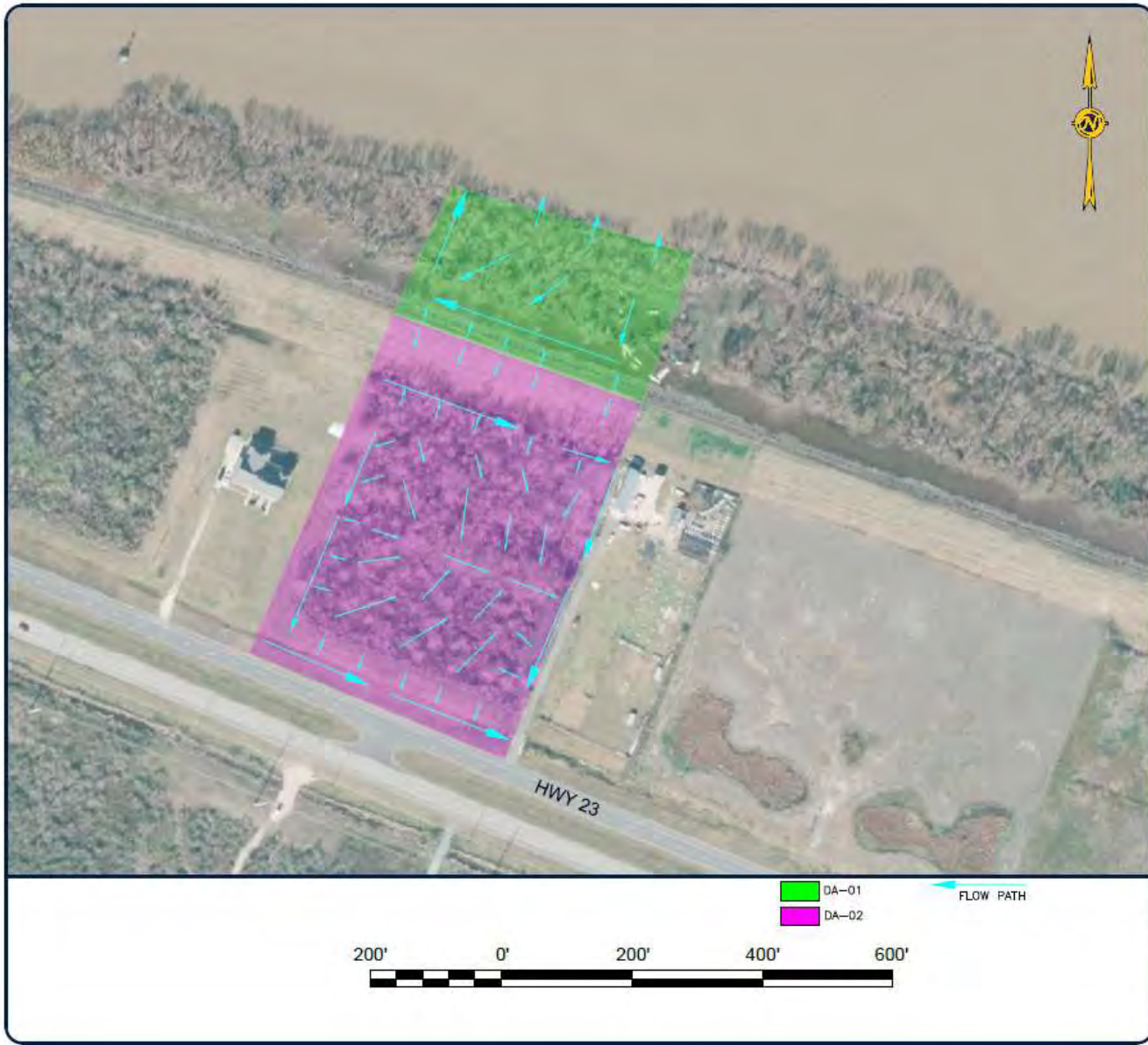


Figure 2: Proposed Project Features

1. Hydrology

a. A map showing existing and proposed water flow patterns

Figure 3 shows the existing flow patterns. To preserve existing flow patterns, three cross drains will be constructed: one south of the levee toe (24" x 72'), one north of HWY-23 (24" x 60'), and one approximately halfway between the other two drains (15" x 72') at an existing depression in the vegetated area. The cross drains will allow water from existing drainage to flow under the proposed road. There will be minimal impact on runoff timing due to the addition of new gravel surfaces and vegetation clearance for construction, however, there will not be any adverse impacts on downstream neighbors. The overall flow pattern of the project area will be preserved post-construction (Figure 4).




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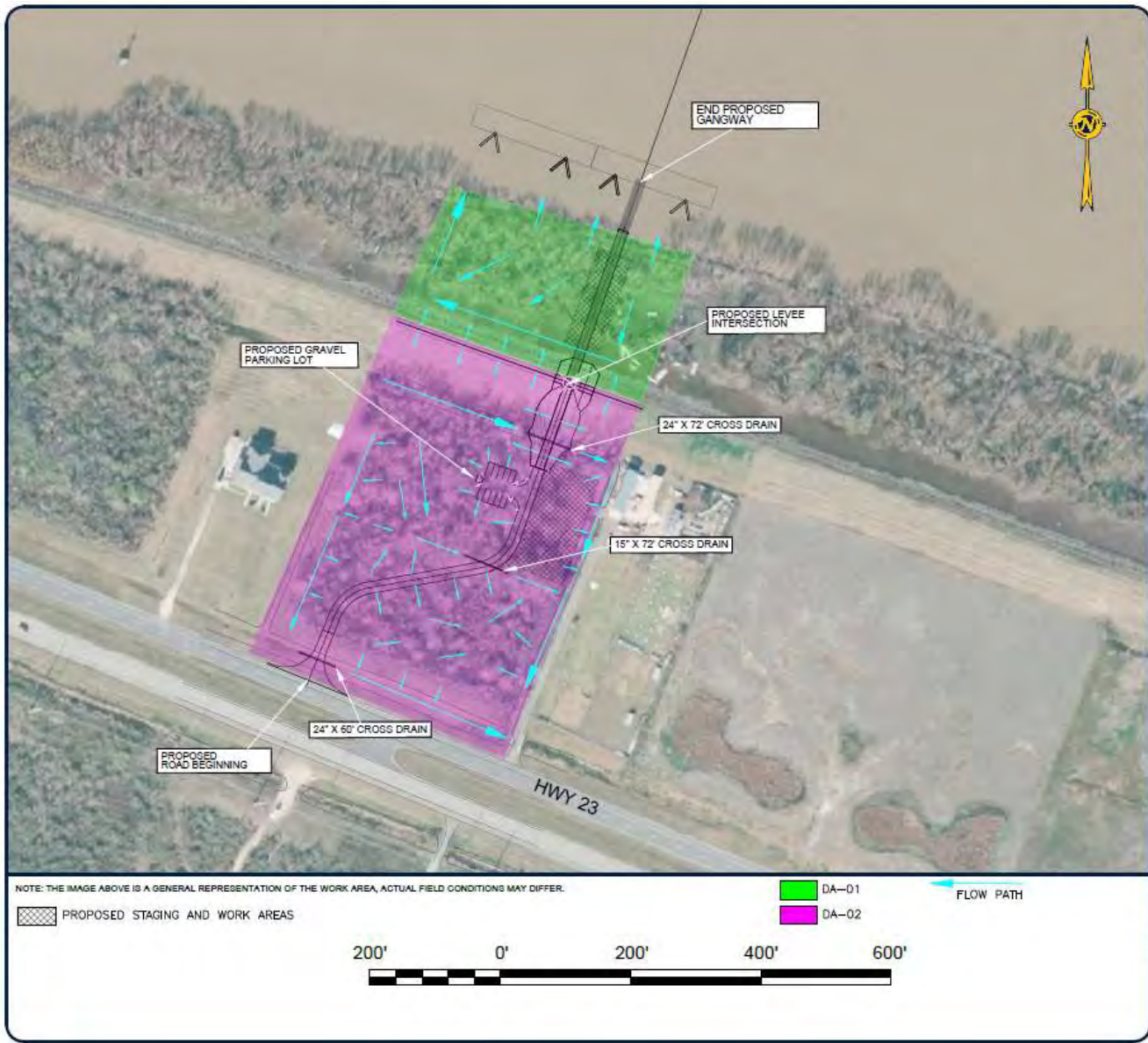
GALLIANO MARINE PLAQUEMINES DOCK

PRE-CONSTRUCTION FLOW PATH

Project number	39130-1380
Date	4/03/2023
Designed by	JMH
Drawn by	AFC
Checked by	MG
Plot Date	July 28, 2023

01

Figure 3: Pre-Construction Flow Path




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GALLIANO MARINE FLAQUEMINES DOCK

POST CONSTRUCTION FLOW PATH

Project number	39130.1390
Date	4/03/2023
Designed by	JLH
Drawn by	AFC
Checked by	MKG
Checked by	
Plot Date	August 16, 2023

02

Figure 4: Post-Construction Flow Path

- b. Information on the pre- and post-project hydrologic conditions, including at a minimum, local topography, slope, surface condition, drainage pattern, response to storm event, etc.

The project area is primarily rural, with some residential and commercial properties. The project area was divided into two drainage areas, namely DA-01 and DA-02. DA-01 consists of the parcel of land north of the levee to the Mississippi River, and DA-02 consists of the parcel of land south of the levee and north of HWY-23. The Mississippi River levee has a side slope of 1V:5H.

Sub-basin DA-01 is an approx. 2.1-acre vegetated area with trees between the levee and the Mississippi River. There is a drainage ditch at the northern levee toe that drains into the Mississippi River. The slope of the vegetated area is approx. 210 feet per mile ($S=0.040$), draining southwest into this drainage ditch and then into the Mississippi River. Post construction, this flow pattern will not be affected as the proposed bridge deck is elevated on piles above the existing ground.

Sub-basin DA-02 is an approx. 5.5-acre vegetated parcel of land with trees between the levee and HWY-23. The slope of the vegetated area is approx. 80 feet per mile ($S=0.015$), overall draining to the southeast. There are drainage ditches at the southern levee toe and north of HWY-23 that drains to the southeast of DA-02. In the middle of DA-02, there is also a depression that drains southeast to connect with the larger drainage ditch on the east side of the property, which flows towards the ditch adjacent to HWY-23. To preserve existing flow patterns, three cross drains will be constructed: one south of the levee toe (24" x 72'), one north of HWY-23 (24" x 60'), and one approximately halfway between the other two drains (15" x 72') at an existing depression in the vegetated area.

2. Water Quality

- a. Information on BMPs to be implemented during and after construction to prevent impacts on surface water and/or coastal resources

The implementation of the proposed project is not expected to impact water quality resulting from the construction and maintenance of the proposed activity.

The proposed activity will not change any point or non-point sources. During the construction of the project, Best Management Practices (BMPs) will be implemented so that point sources such as sediment will be prevented from entering into the neighboring waterbodies.

The proposed dock and associated project features will have no impact on existing stormwater conveyance systems, either manmade or natural channels. .

Best Management Practices (BMPs) that will be considered are as follows:

- Wire-backed silt fences/screens will be placed around the construction area to prevent any runoff of sediment-laden stormwater.
- Erosion of bare soil (if any) will be controlled by mulching, seeding, and sodding, if necessary.

Construction-Related Debris: Utmost care will be taken while performing the construction work so as to avoid any debris (dirt, riprap, or any miscellaneous debris) from entering the adjacent water body. Measures such as good housekeeping practices

will be implemented and debris will be collected regularly and stored in a waste receptacle placed on the staging area. The staging area will be silt fenced to prevent debris from moving around and ending up in the adjacent water bodies.