



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

September 12, 2022

Project Manager:
Stephanie Castaing
(504) 862-1564
Stephanie.L.Castaing@usace.army.mil

Permit Application Number: MVN-2022-00523-EPP

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).

CONTAINER EXPORT TERMINAL WITHIN AND ALONG THE MISSISSIPPI RIVER IN PLAQUEMINES PARISH

NAME OF APPLICANT: Louisiana 23 Asset Management Group, LLC, c/o Cardno, Inc., Attn: Brenton Jenkins, 251 Florida Street, Suite 407, Baton Rouge, Louisiana 70816 or brenton.jenkins@cardno.com

LOCATION OF WORK: At approximately Latitude: 29.5771, Longitude: -89.8139, on the right descending bank of the Mississippi River, at about 50 miles above Head of Passes, off Louisiana Highway 23, in Port Sulphur, Louisiana, in Plaquemines Parish, as shown on the enclosed drawings.

Hydrologic Unit Code: 08090301 (East Central Louisiana Coastal)

CHARACTER OF WORK: Construct a container export terminal (The Louisiana's Gateway Terminal -LGT project), to include a Terminal and Wharf Facility. The basic layout of the Terminal facility shall include a container storage, maintenance and gate building, and industrial facility area. The basic layout of the Wharf facility shall include an approximately 2,750' x 200' wharf, four (4) approachways, dock house, and fire intake system. The project as proposed would directly impact approximately 29.67 acres of wetlands and/or waterbottoms. The applicant proposed to contract with an approved mitigation bank to offset the adverse impact to jurisdictional wetlands.

The comment period for the 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 and must be mailed 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 Engineers project manager listed above or forwarded to the Corps of Engineers at the address above, ATTENTION: REGULATORY DIVISION, RGE, Stephanie Castaing. 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.

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 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.

By letter dated April 26, 2022, the State Historic Preservation Office (SHPO) stated, based on the description of the Area of Potential Effect (APE), the proposed ground-disturbing activities, and the identification of historic properties within the APE, our office concurs with the assessment that no historic properties listed in or eligible for listing in the National Register of Historic Places will be affected by this project. We concur that the portions of sites 16PL125, 16PL157, and 16PL266, along with LHRI no. 38-00177 within the APE are not eligible for listing in the National Register. Our office has no further concerns for this project.

The New Orleans District has determined that the activity is not likely to adversely affect the endangered Pallid Sturgeon or the threatened West Indian Manatee with the inclusion of Intake Conditions and the Standard Manatee Conditions, based on the Information & Planning Consultation for Endangered Species in Louisiana (IPaC), dated January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office.

Our initial finding is that the proposed work is Not Likely to Adversely Affect any species listed as endangered by the U.S. Departments of Commerce, nor affect any habitat designated as critical to the survival and recovery of such species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of 29.67 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would have no 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 Department of Environmental Quality, Water Quality Certifications, before a permit is issued.

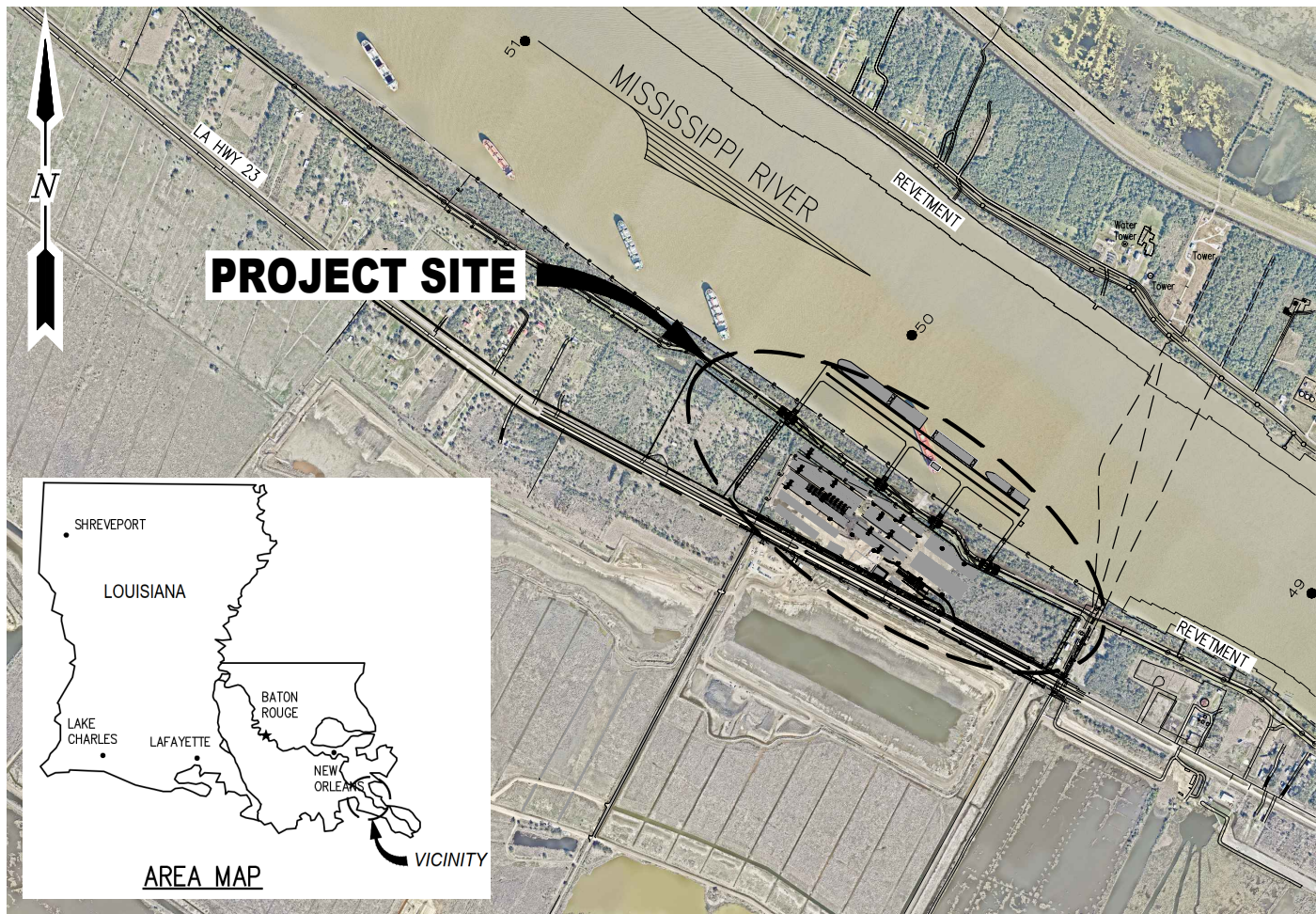
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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

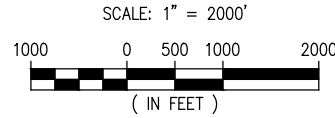
Brad P. LaBorde
Chief, Eastern Evaluation Branch

J:\110005\11641 LA 23 PLAQUEMINE GGC TERMINAL\DRAWINGS\PERMIT\11641-P1.DWG



PARISH: PLAQUEMINES
 LATITUDE: 29° 34' 43" N
 LONGITUDE: 89° 48' 42" W

VICINITY MAP



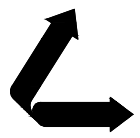
NOTES:

1. AS-BUILT DRAWINGS WILL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF CONSERVATION, PIPELINE DIVISION, P. O. BOX 94275 BATON ROUGE, LA 70804, AND TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION, P. O. BOX 44487, BATON ROUGE, LA 70804-4487.
2. ALL STRUCTURES, FACILITIES, WELL AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS OR IN OILFIELD CANALS OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE UNLESS PRIOR WRITTEN APPROVAL TO LEAVE SUCH STRUCTURES IN PLACE IS RECEIVED FROM THE COASTAL MANAGEMENT DIVISION. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED.
3. STRUCTURES MUST BE MARKED / LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
4. 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.
5. APPLICANT SHALL COORDINATE WITH CPRA TO ENSURE THAT THIS PROJECT DOES NOT IMPEDE CONSTRUCTION OF THE BA-0240 PROJECT. ALSO, CPRA HAS \$100s OF MILLIONS IN OTHER PROJECTS PLANNED UTILIZING THIS BORROW AREA. APPLICANT SHALL COORDINATE WITH CPRA DURING DESIGN AND CONSTRUCTION TO ENSURE CPRA WILL BE ABLE TO CONSTRUCT THOSE PROJECTS AND UTILIZE AS MUCH OF THIS BORROW AREA AS POSSIBLE.
6. THE APPLICANT MUST SUBMIT FOR AND RECEIVE A LEVEE PERMIT/LETTER OF NO OBJECTION FROM THE CPRA, THE UNITED STATES ARMY CORPS OF ENGINEERS AND THE PLAQUEMINES PARISH GOVERNMENT PRIOR TO COMMENCEMENT OF THE ACTIVITY.
7. THE APPLICANT SHALL ADHERE TO ALL STATE STATUTES (R.S. 56:2011 ET SEQ.) AND DEPARTMENT REGULATIONS (LAC 76:XIII.101 ET SEQ.) CONCERNING DREDGING OF FILL SAND AND FILL MATERIAL FROM WATER BOTTOMS OF THE STATE OF LOUISIANA AND SEVERANCE ROYALTIES.

BRAD FRISCHHERTZ
 LA PE #32628

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 PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
VICINITY MAP,
AREA MAP, AND NOTES

DATE	MAR. 2022
DESIGN	MDF
DRAWN	SJA
CHECK	JPL
JOB NO.	11641
SHEET No.	1 OF 32

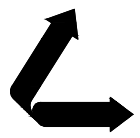
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2	A	DRAWING INDEX
3	A	OVERALL EXISTING SITE PLAN
4	A	PROPOSED NEW SITE PLAN
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10	A	SECTION AT USACE STA. 1704+00
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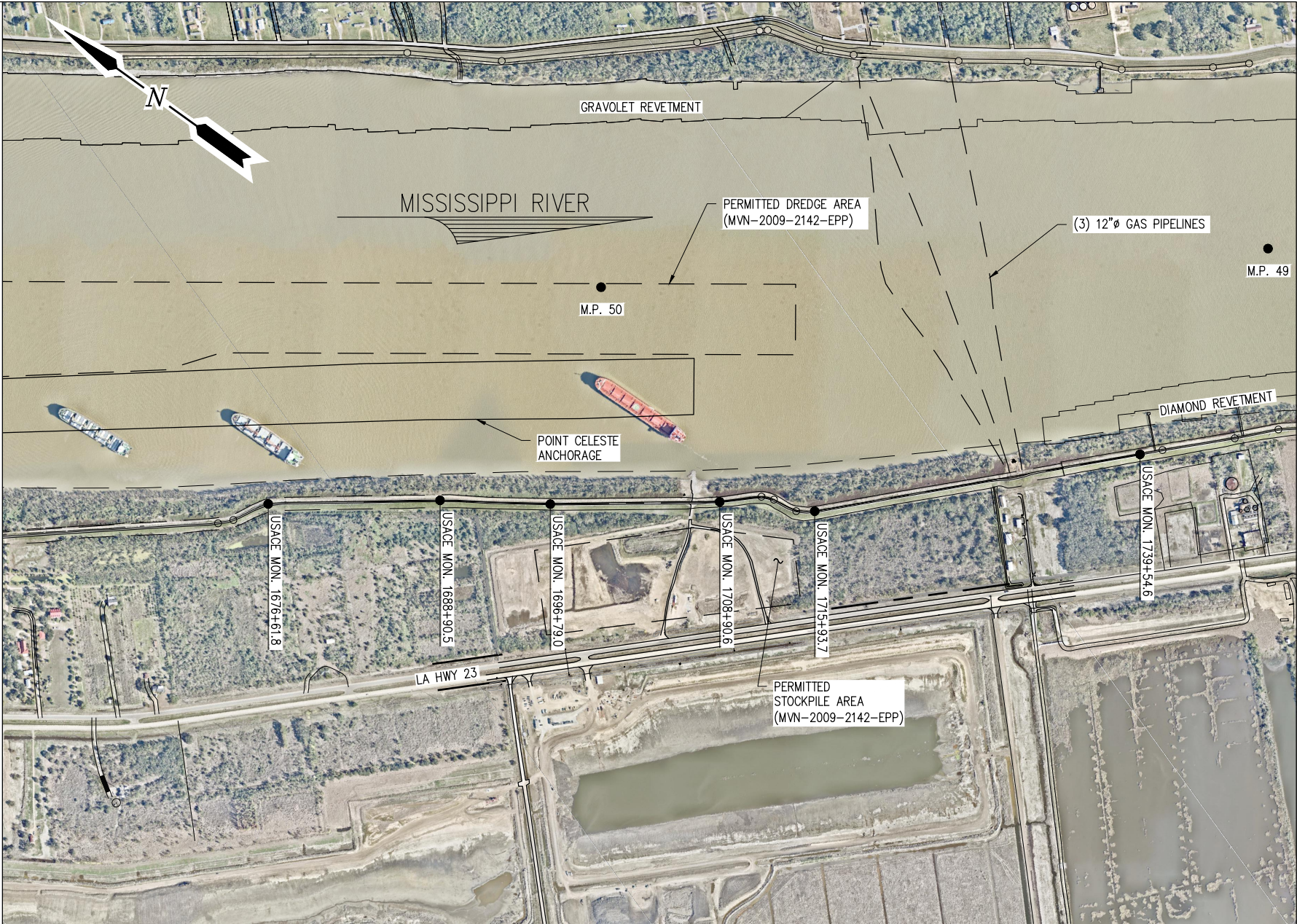


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PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
DRAWING INDEX

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SHEET No.
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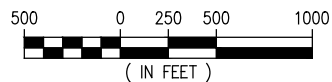
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LOUISIANA'S GATEWAY TERMINAL
OVERALL EXISTING SITE PLAN

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OVERALL EXISTING SITE PLAN

SCALE: 1" = 1000'



NOTE:
AERIAL IMAGE FROM NEAR
MAP TAKEN ON NOV. 2021

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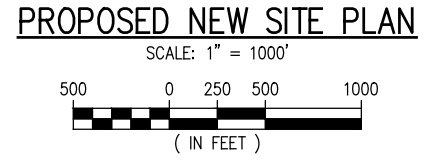
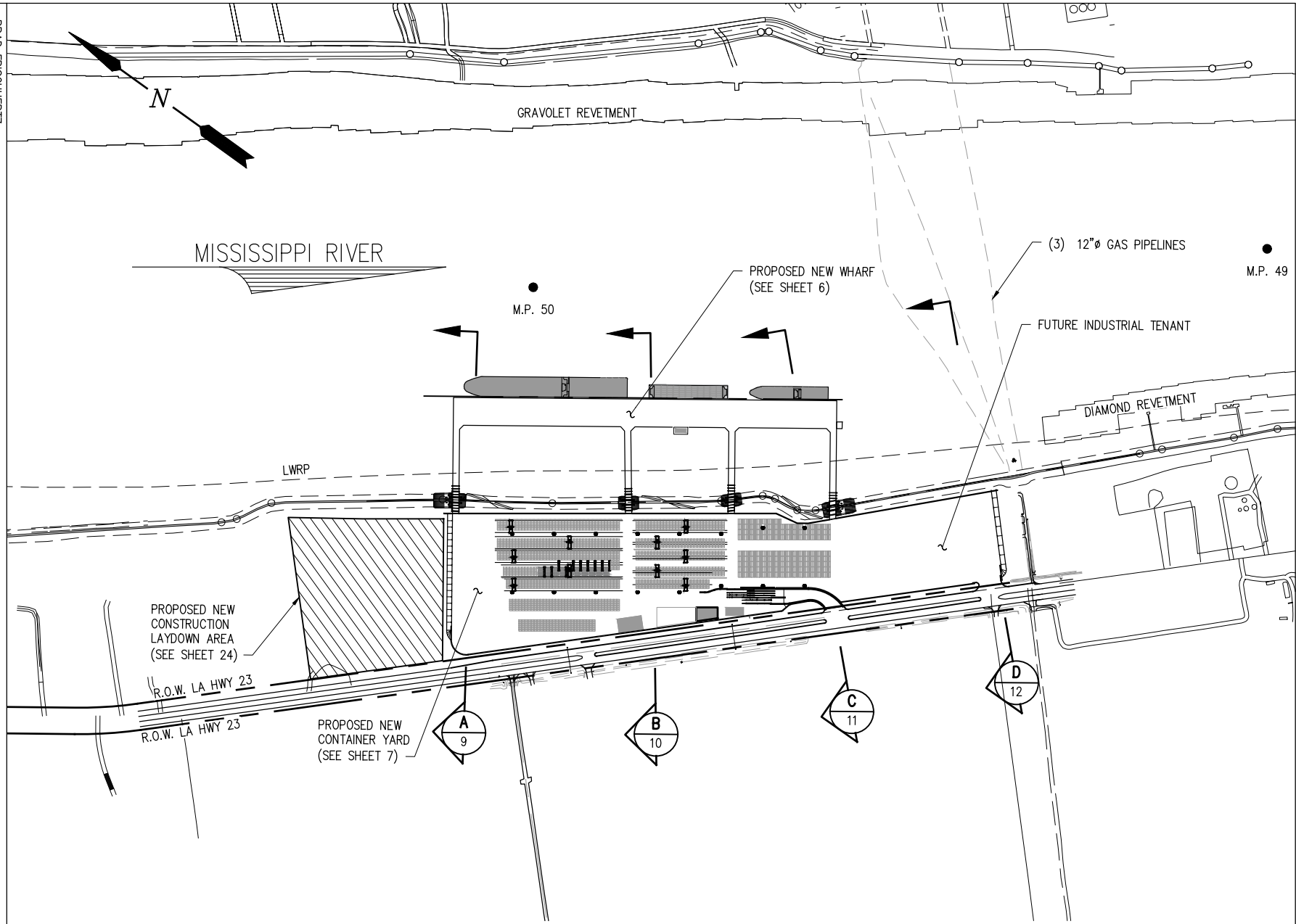
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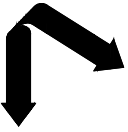


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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW SITE PLAN

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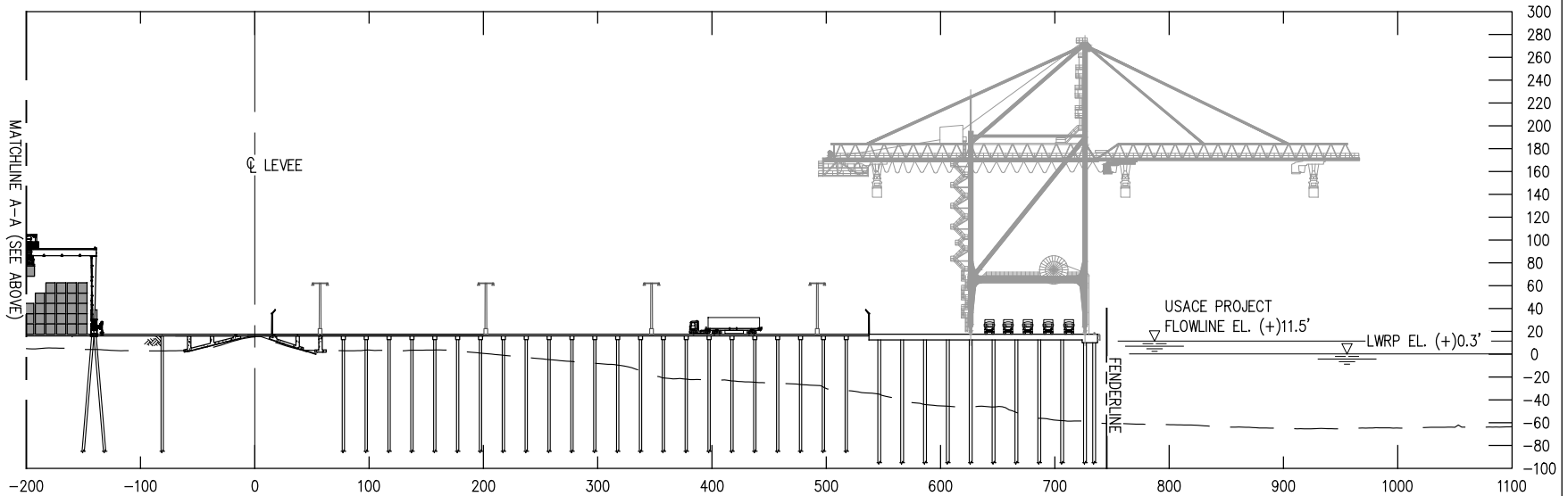
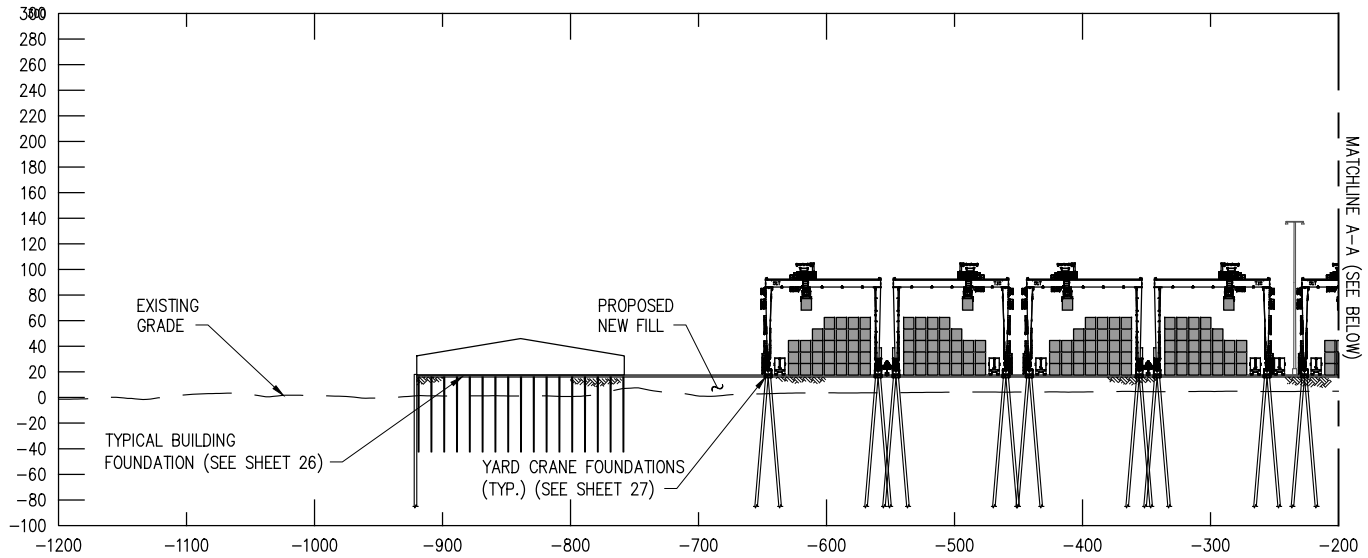
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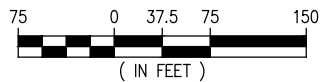
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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW GENERAL ARRANGEMENT

DATE MAR. 2022
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PROPOSED NEW GENERAL ARRANGMENT

SCALE: 1" = 150'



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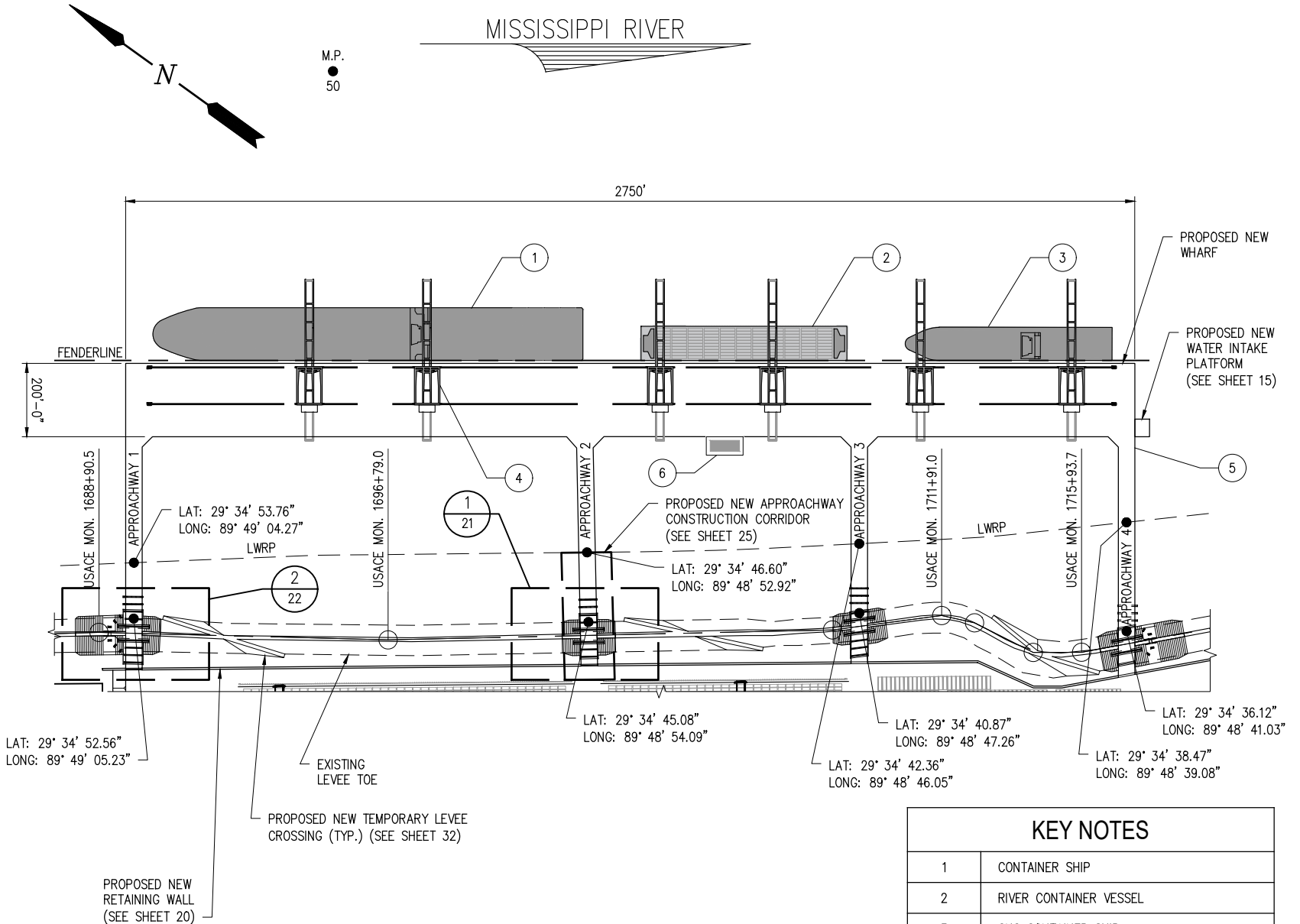
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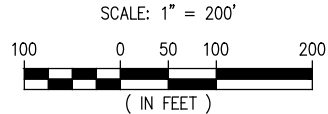
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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW WHARF
ENLARGED PLAN

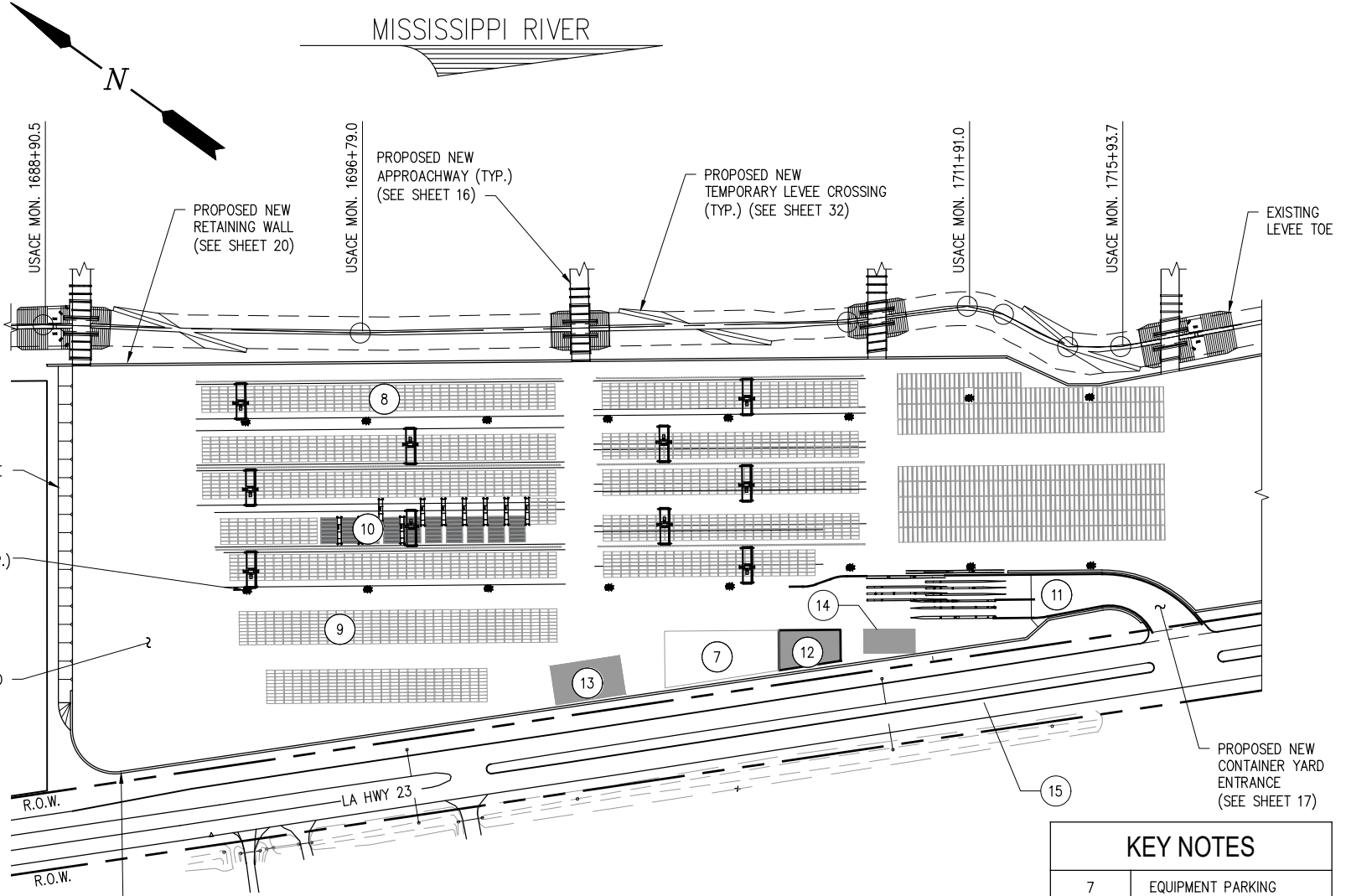
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PROPOSED NEW WHARF ENLARGED PLAN

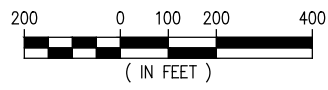


KEY NOTES	
1	CONTAINER SHIP
2	RIVER CONTAINER VESSEL
3	CNG CONTAINER SHIP
4	SHIP TO SHORE CRANE (TYP.)
5	APPROACHWAY TO OFFSHORE WHARF (TYP.)
6	DOCK HOUSE PLATFORM



PROPOSED NEW CONTAINER YARD – ENLARGED PLAN

SCALE: 1" = 400'



KEY NOTES

7	EQUIPMENT PARKING
8	CONTAINER STORAGE
9	CONTAINER STORAGE
10	REEFER RACK
11	TRUCK GATE
12	PARKING
13	MAINTENANCE BUILDING
14	GATE BUILDING
15	TURNING LANE

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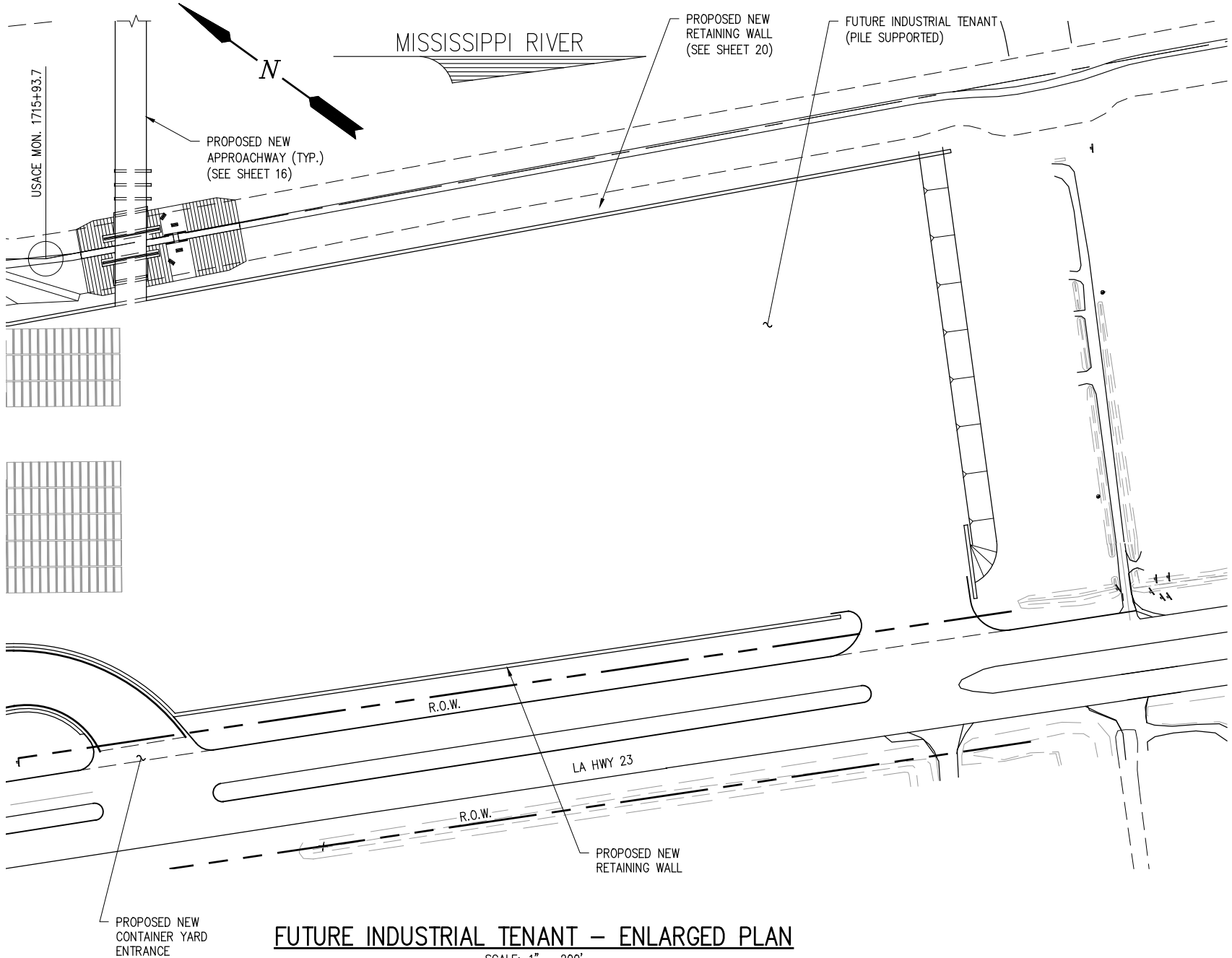
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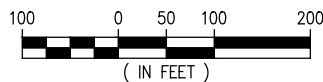
LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW CONTAINER YARD
ENLARGED PLAN

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FUTURE INDUSTRIAL TENANT – ENLARGED PLAN

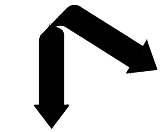
SCALE: 1" = 200'



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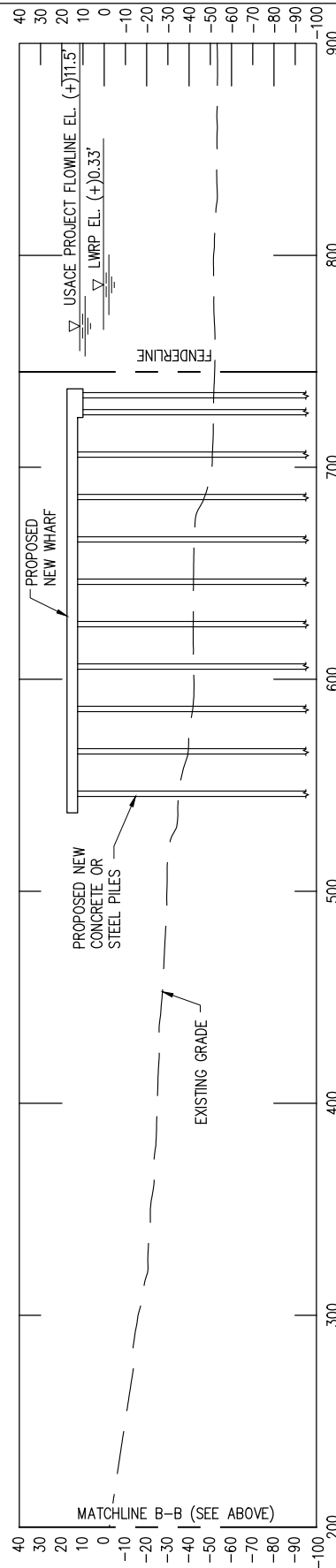
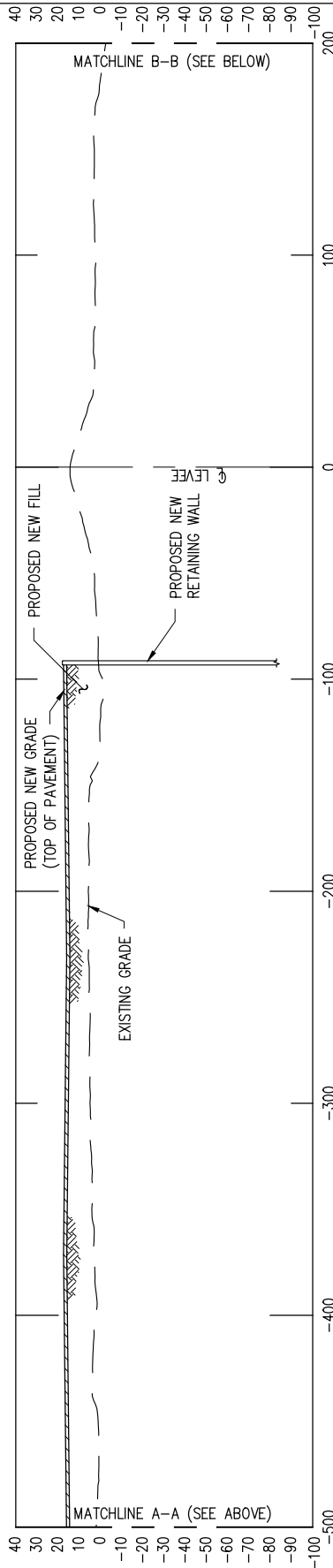
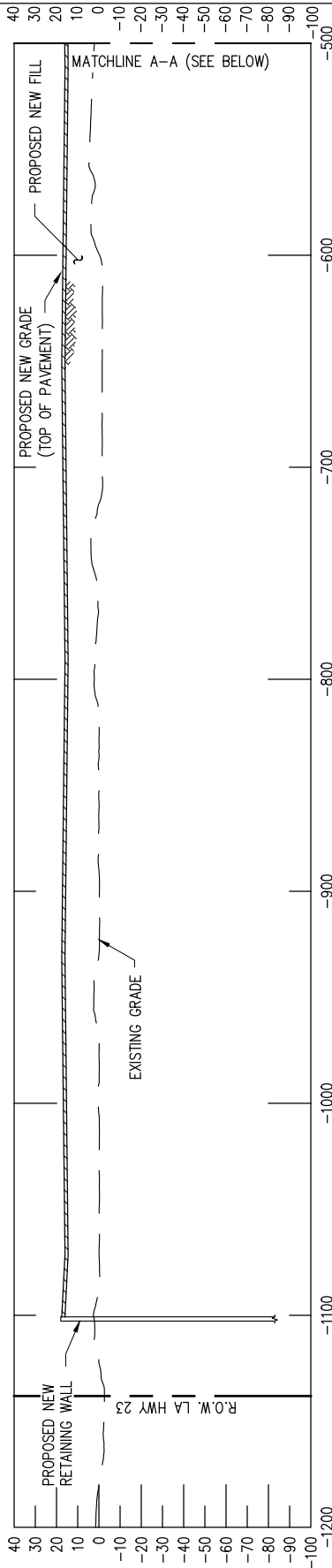
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FUTURE INDUSTRIAL TENANT
ENLARGED PLAN

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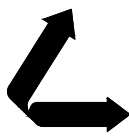
USACE STATION 1691+00
SCALE: 1" = 80'



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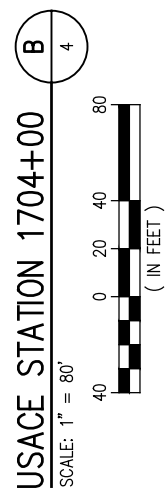
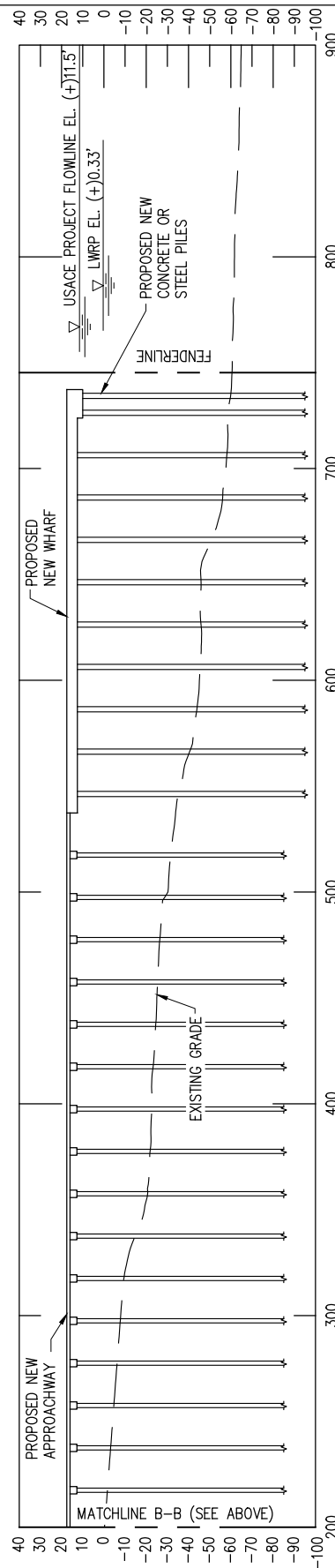
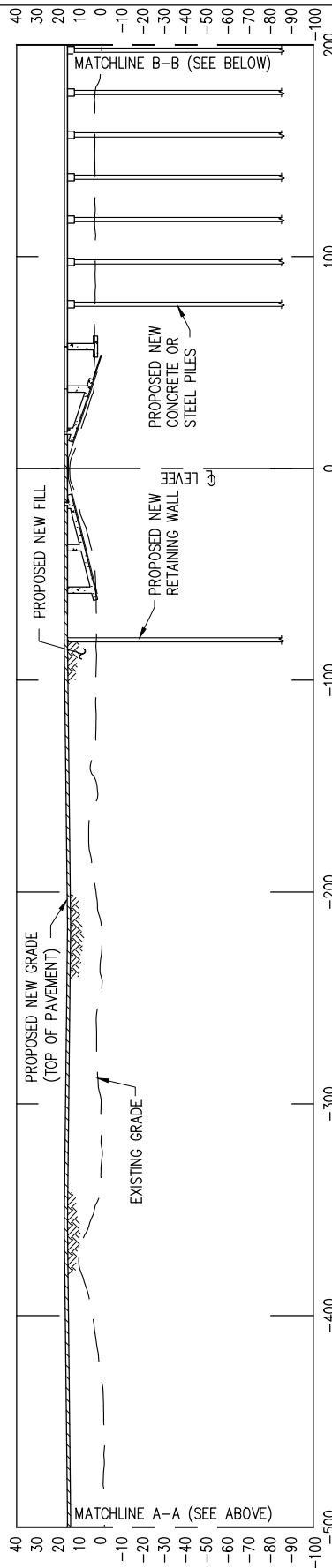
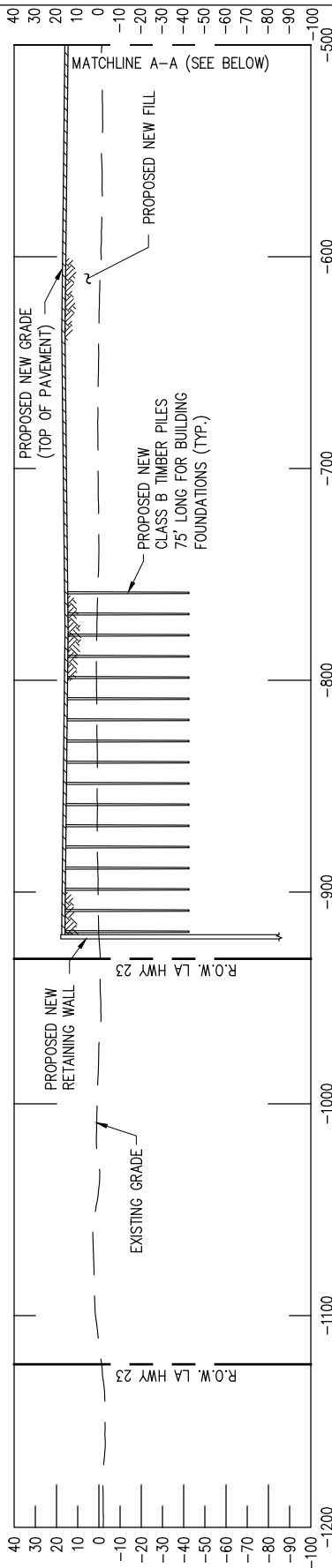


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PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
SECTION AT USACE STA. 1691+00

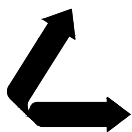
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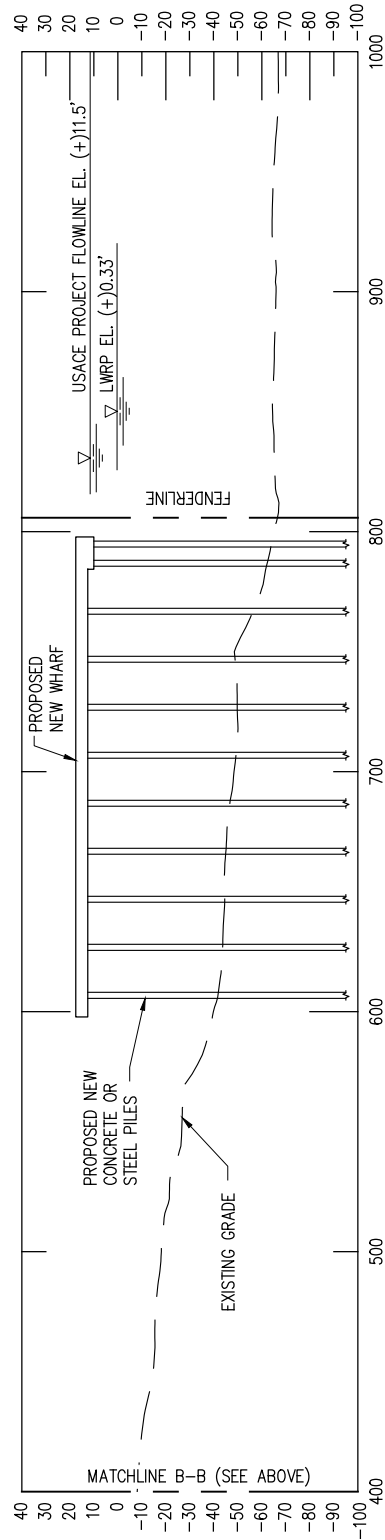
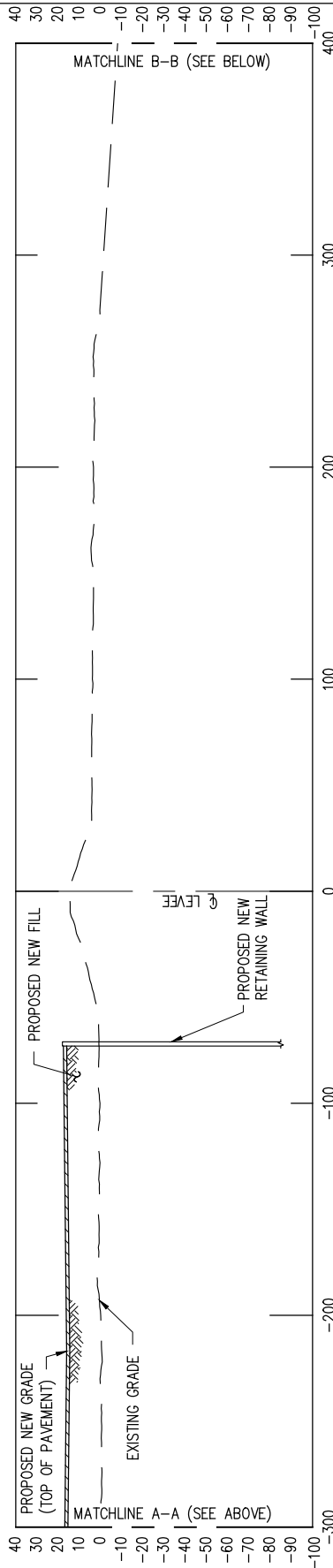
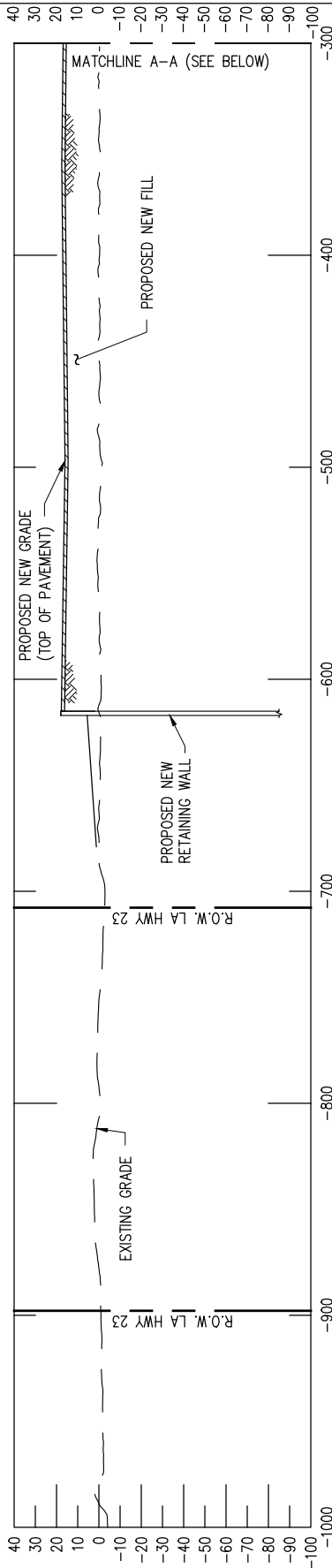


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LOUISIANA'S GATEWAY TERMINAL
SECTION AT USACE STA. 1704+00

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C
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USACE STATION 1716+00

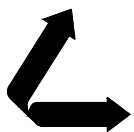
SCALE: 1" = 80'



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LA PE #32628

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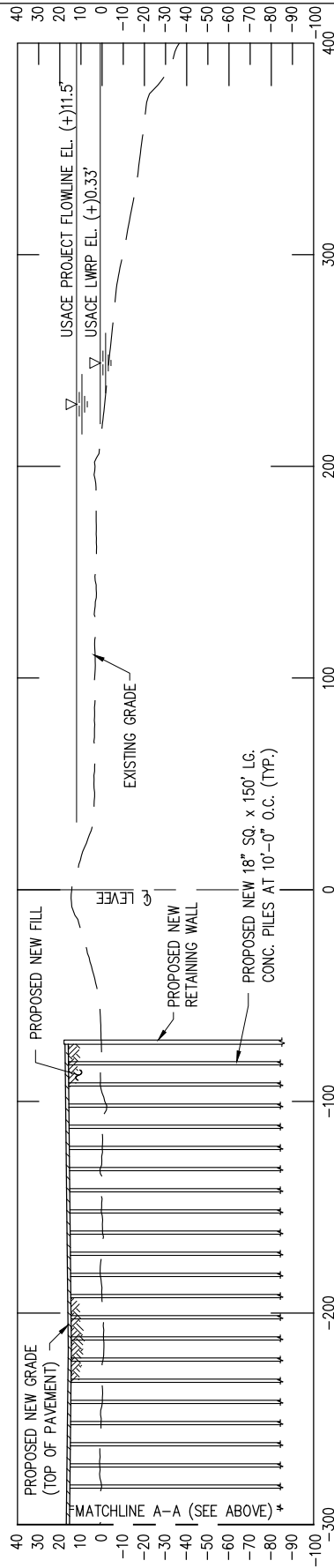
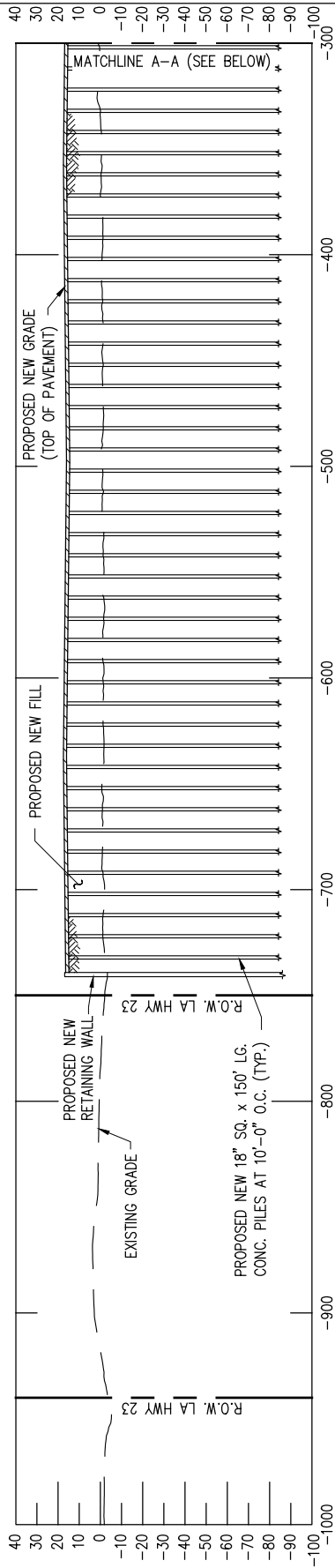
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED

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LA 23 DEVELOPMENT COMPANY
PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
SECTION AT USACE STA. 1716+00

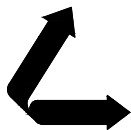
DATE MAR. 2022
DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO 11641
SHEET No.
11 OF 32



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LOUISIANA'S GATEWAY TERMINAL
SECTION AT USACE STA. 1728+00

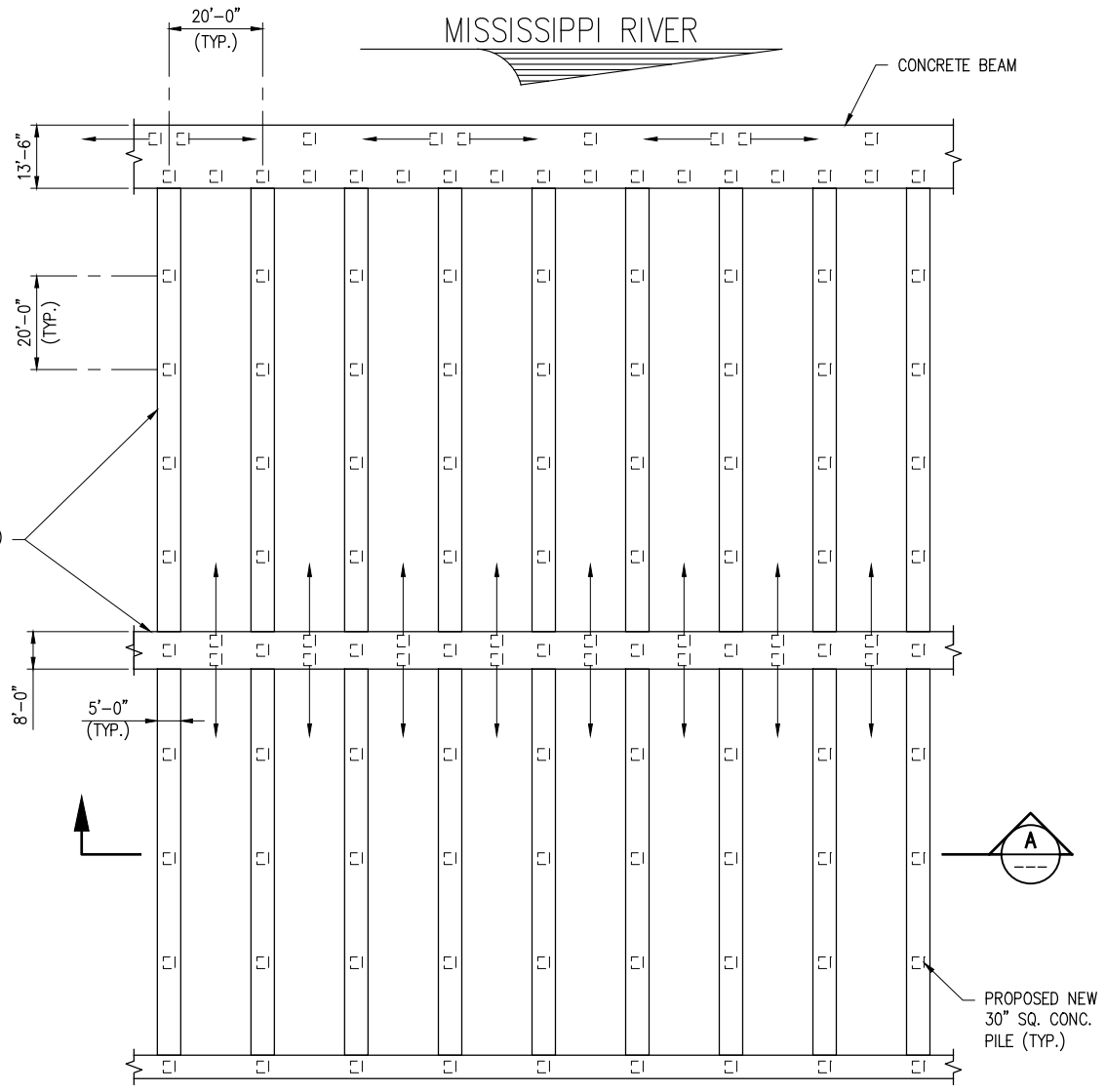
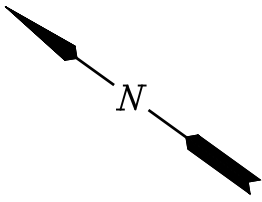
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DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO 11641
SHEET No.
12 OF 32

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4

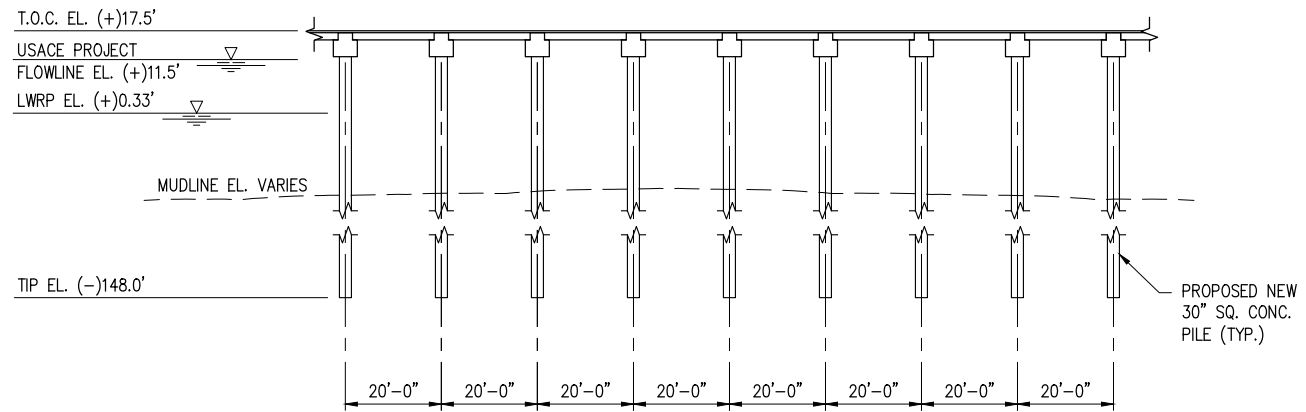
USACE STATION 1728+00
SCALE: 1" = 80'



(IN FEET)



PARTIAL WHARF - PLAN
SCALE: 1" = 40'



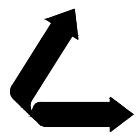
SECTION A
SCALE: 1" = 40'

J:\110005\11641 LA 23 PLAQUEMINE GGC TERMINAL\DRAWINGS\PERMIT\11641-P1.3.DWG

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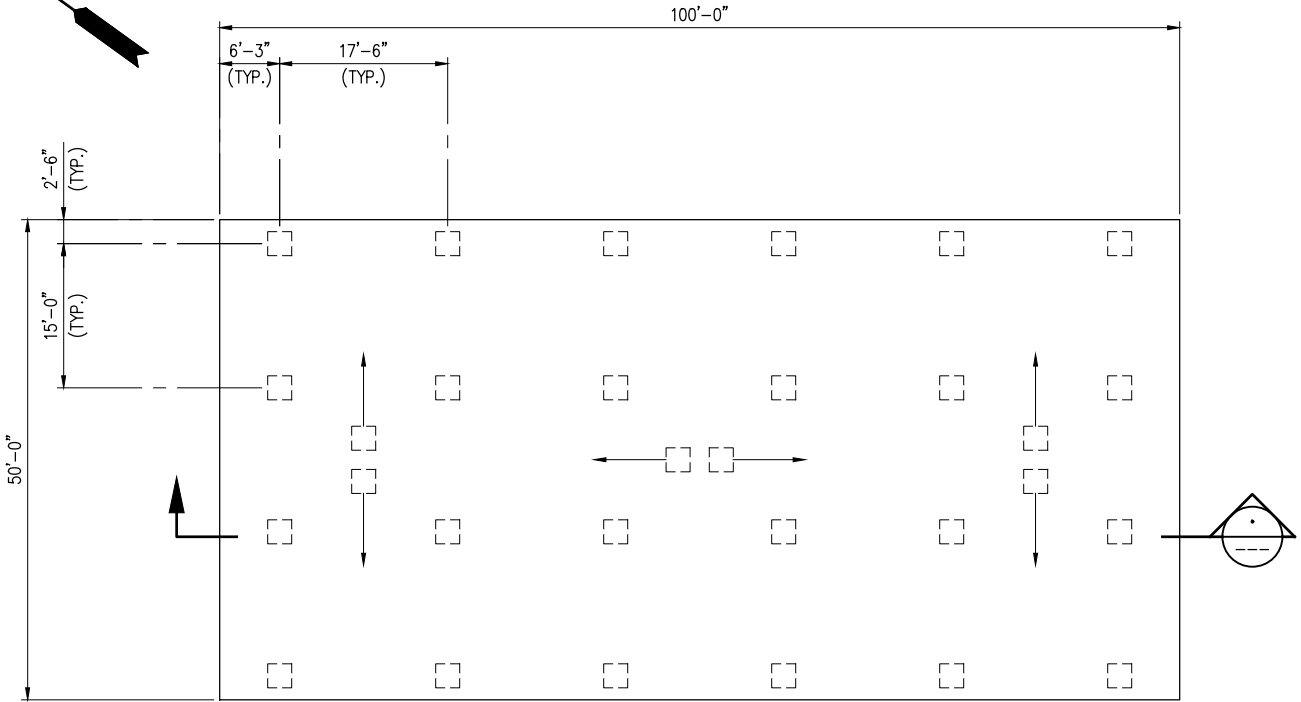
LA 23 DEVELOPMENT COMPANY
PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW WHARF
PARTIAL PLAN AND SECTION

DATE MAR. 2022
DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO. 11641
SHEET No.
13 OF 32

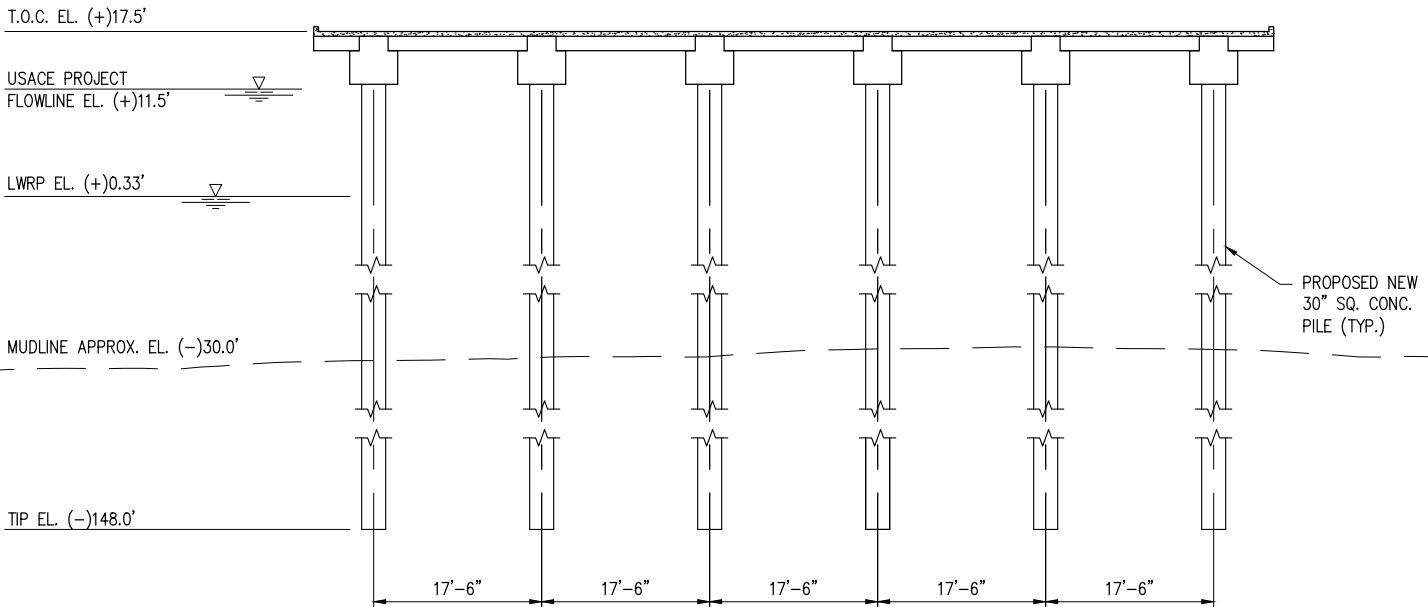
MISSISSIPPI RIVER

N



DOCK HOUSE PLATFORM – PLAN

SCALE: 1" = 20'



SECTION

A

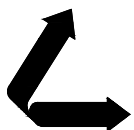
SCALE: 1" = 20'

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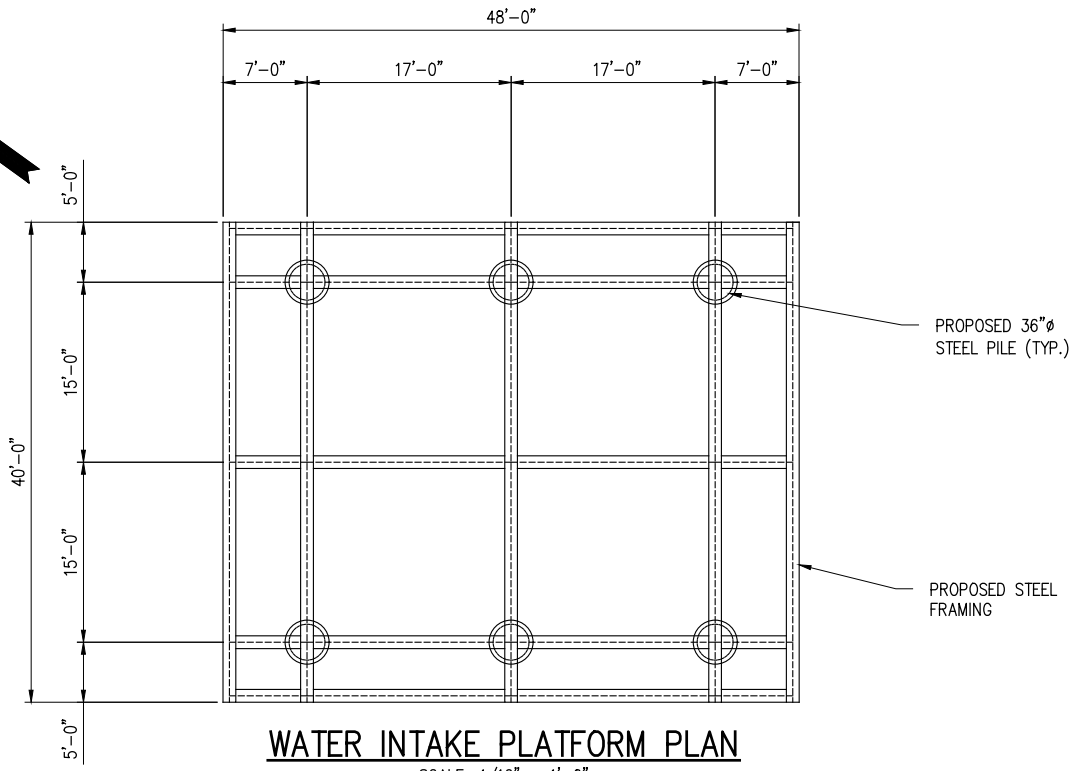
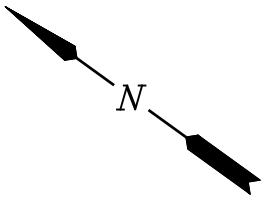
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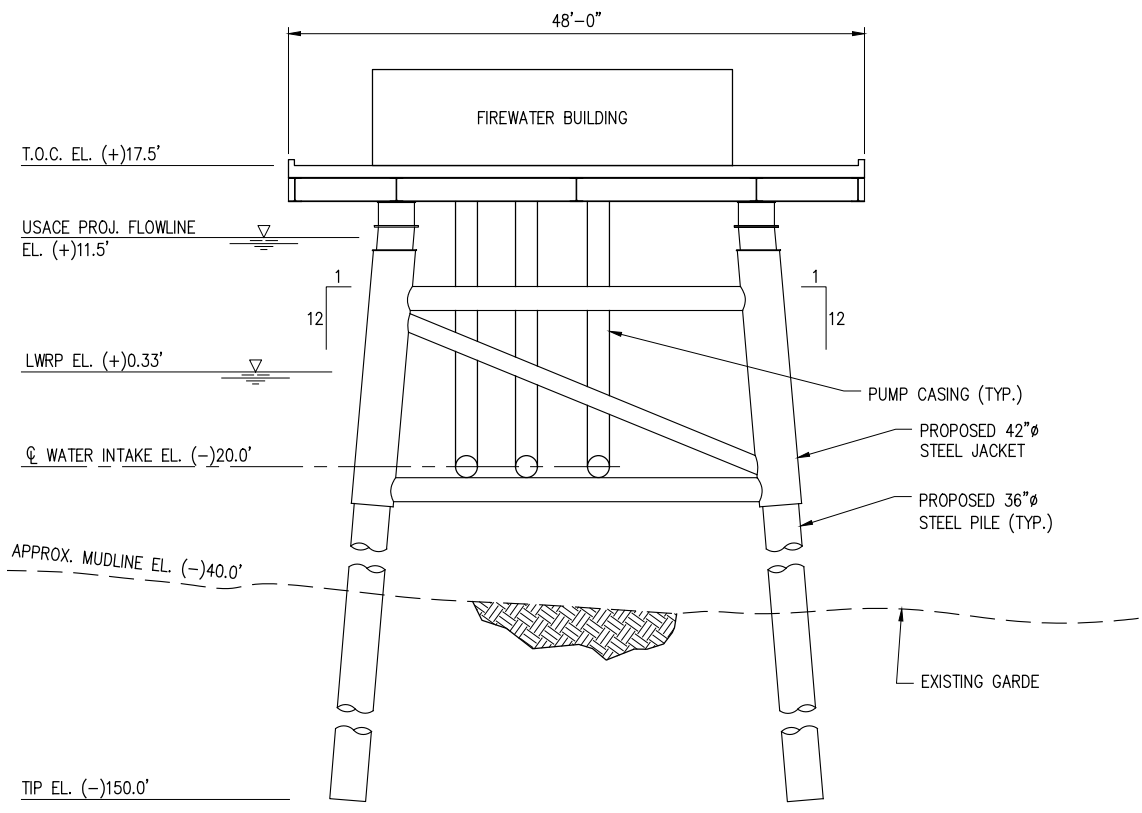
LA 23 DEVELOPMENT COMPANY
PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW DOCK HOUSE PLATFORM
PLAN AND SECTION

DATE MAR. 2022
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DRAWN SJA
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JOB NO. 11641
SHEET No. 14 OF 32



WATER INTAKE PLATFORM PLAN
SCALE: 1/16" = 1'-0"



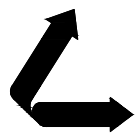
WATER INTAKE PLATFORM - ELEVATION
SCALE: 1/16" = 1'-0"

J:\110005\11641 LA 23 PLAQUEMINE GGC TERMINAL\DRAWINGS\PERMIT\11641-P15.DWG

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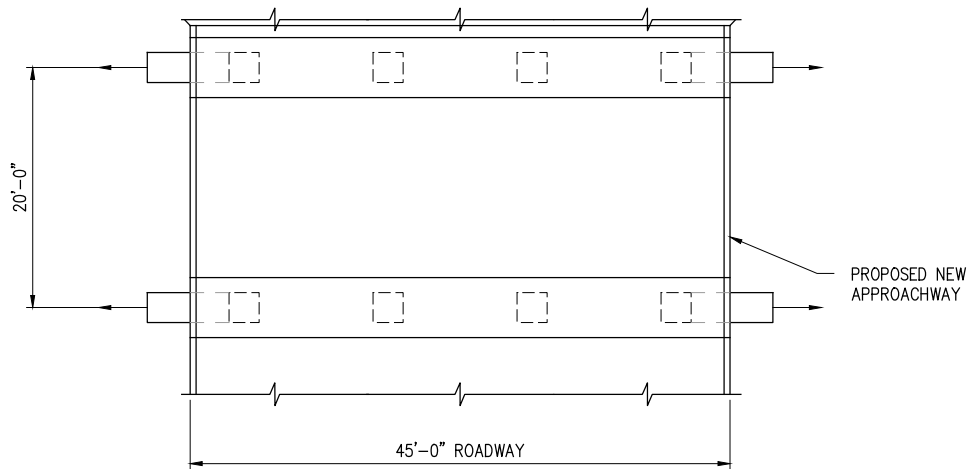


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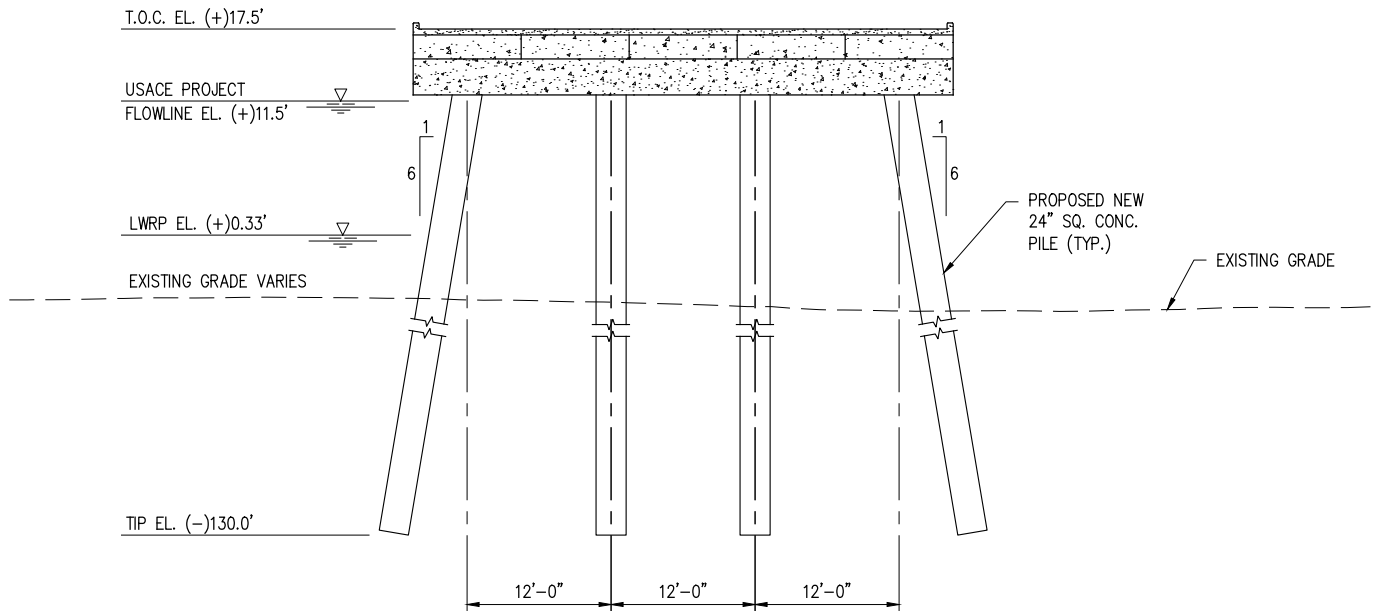
LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW WATER INTAKE PLATFORM
PLAN & ELEVATION

DATE MAR. 2022
DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO. 11641
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PARTIAL APPROACHWAY – PLAN

SCALE: 1/16" = 1'-0"



TYPICAL APPROACHWAY SECTION

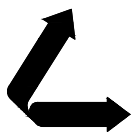
SCALE: 1/16" = 1'-0"

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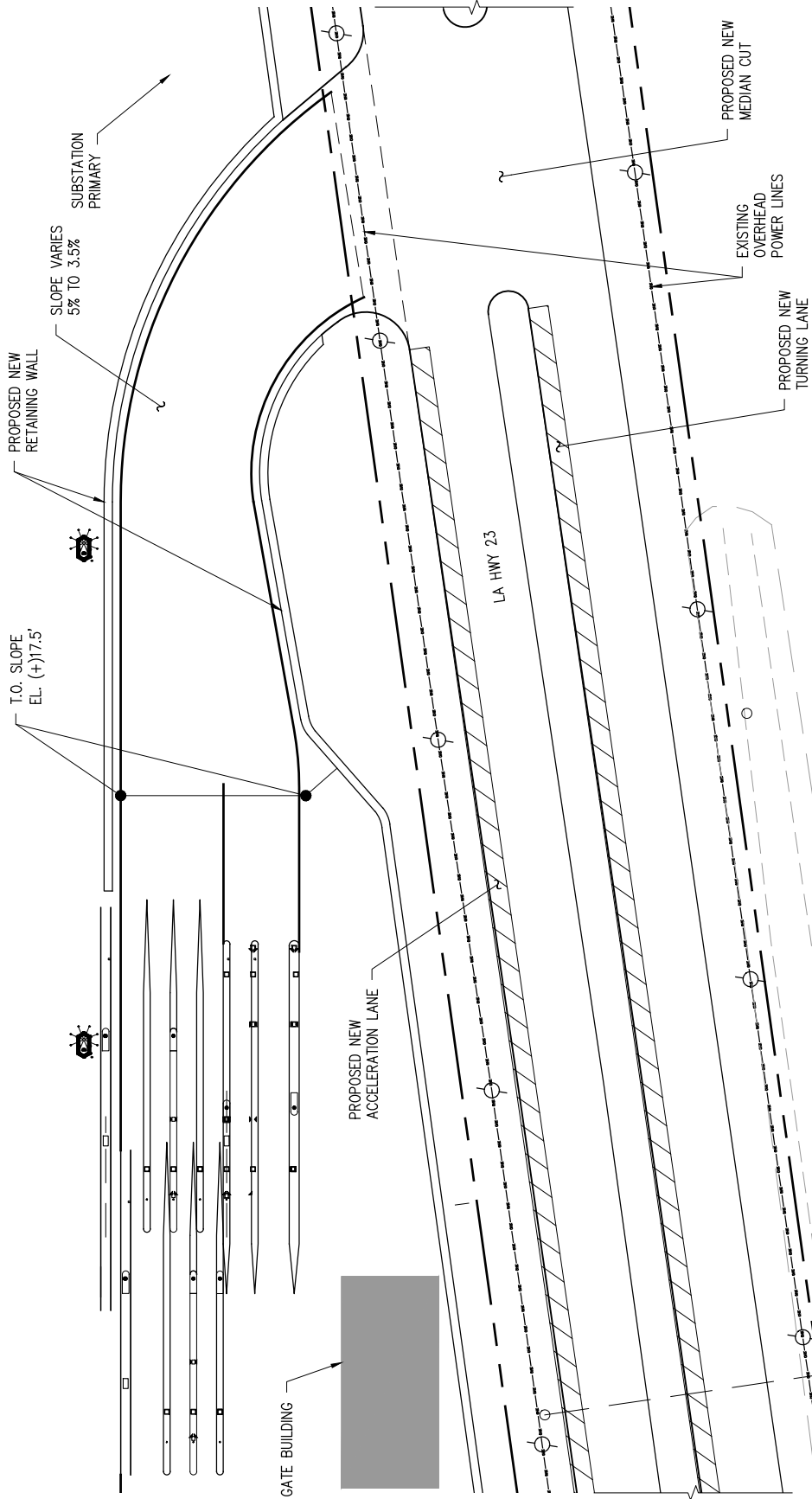
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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW PARTIAL APPROACHWAY
PLAN AND SECTION

DATE MAR. 2022
DESIGN MDF
DRAWN LPR
CHECK JPL
JOB NO. 11641
SHEET No. 16 OF 32

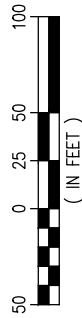


MISSISSIPPI RIVER



PROPOSED NEW CONTAINER YARD ENTRANCE PLAN

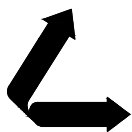
SCALE: 1" = 100'



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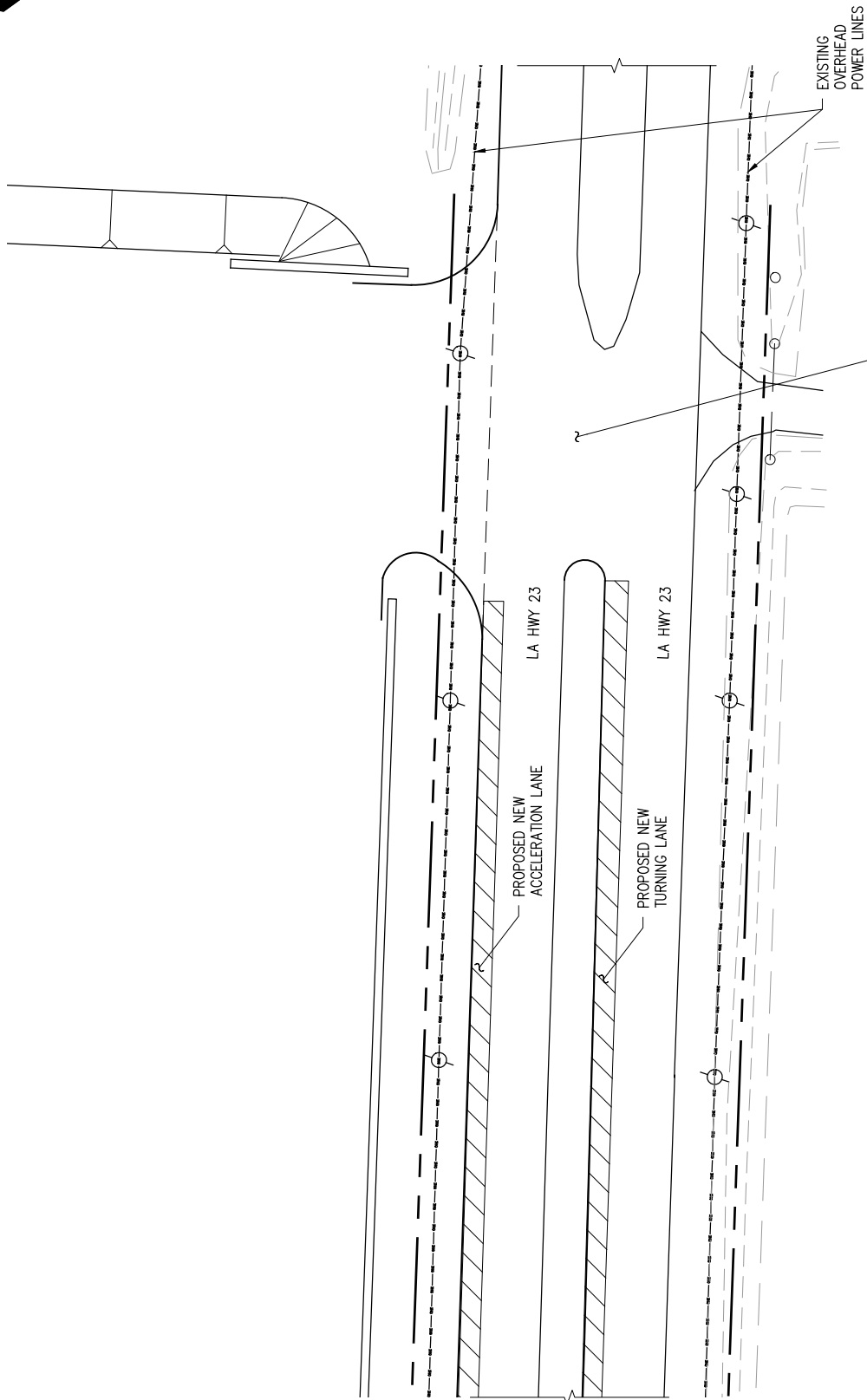
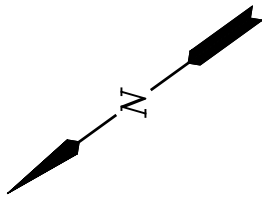
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PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW CONTAINER YARD
ENTRANCE PLAN

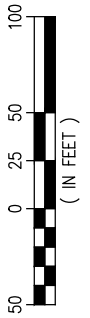
DATE MAR. 2022
DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO 11641
SHEET No.
17 OF 32

MISSISSIPPI RIVER



FUTURE INDUSTRIAL TENANT ENTRANCE PLAN

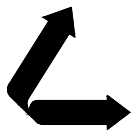
SCALE: 1" = 100'



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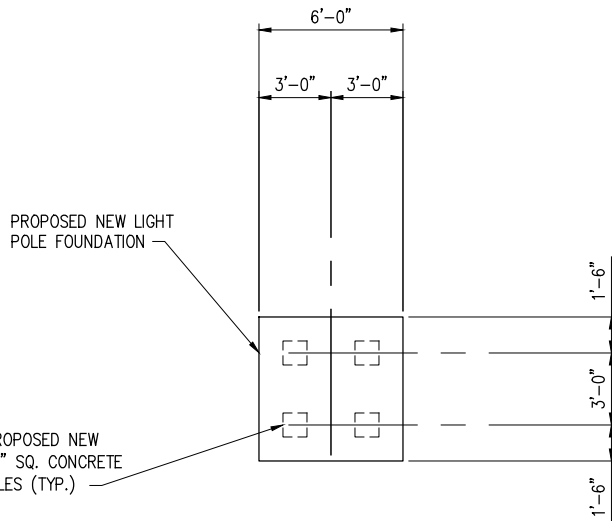


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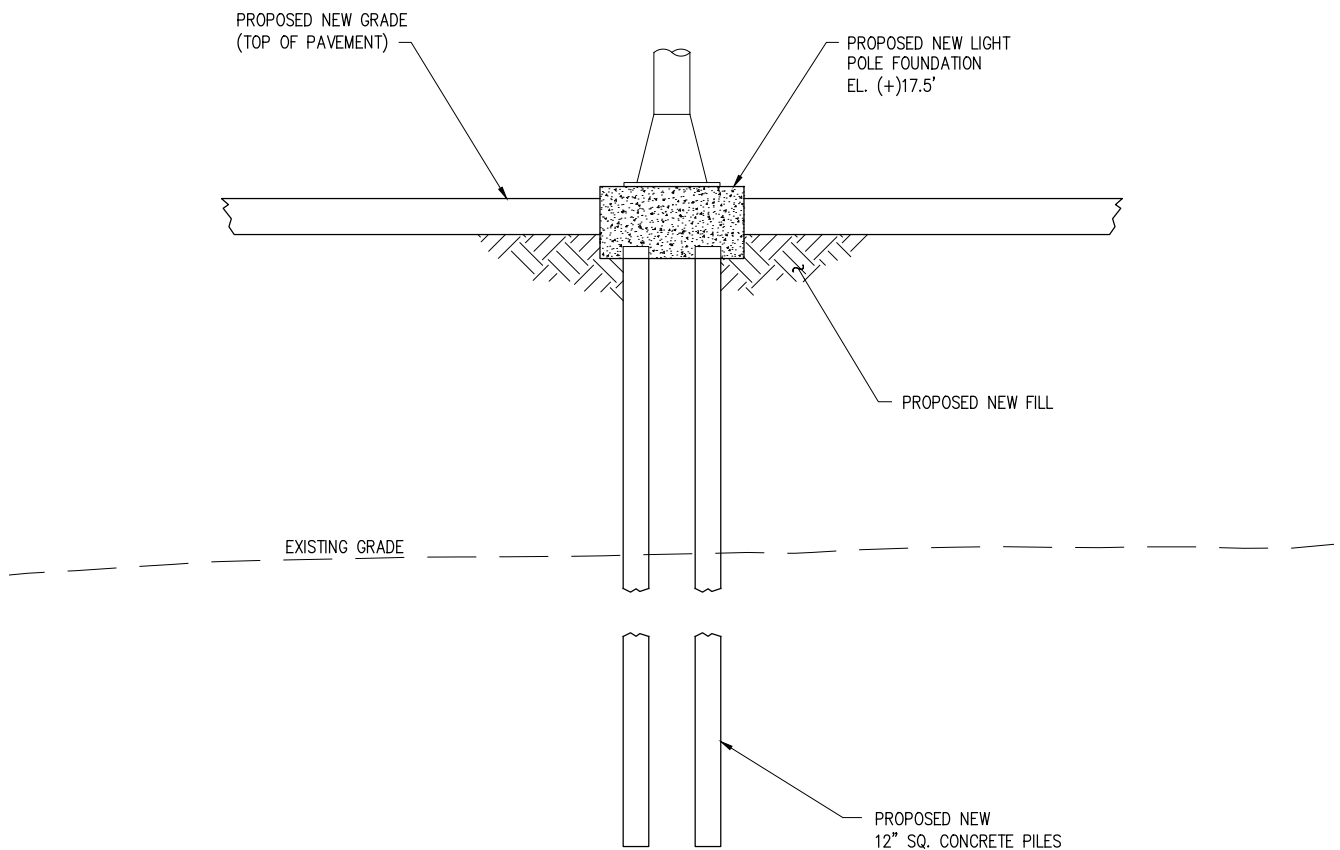
LOUISIANA'S GATEWAY TERMINAL
FUTURE INDUSTRIAL TENANT
ENTRANCE PLAN

DATE MAR. 2022
DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO 11641
SHEET No.
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LIGHT POLE FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



LIGHT POLE FOUNDATION ELEVATION

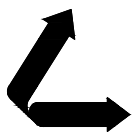
SCALE: 1/8" = 1'-0"

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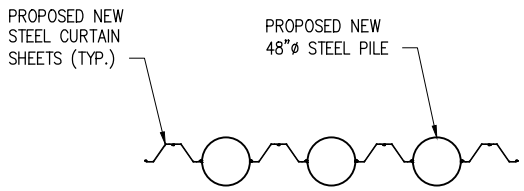
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PROPOSED NEW LIGHT POLE FOUNDATION
PLAN AND ELEVATION

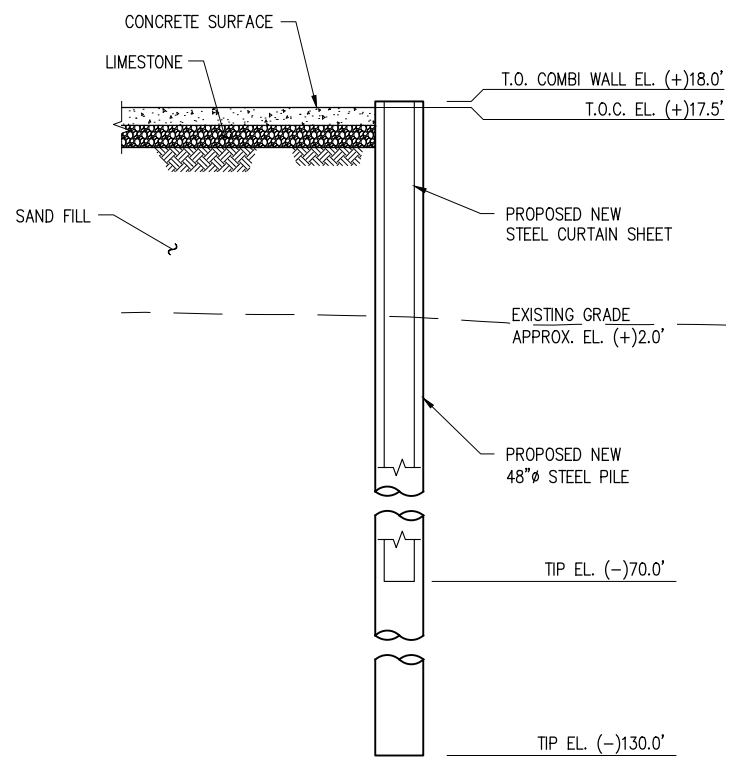
DATE MAR. 2022
DESIGN MDF
DRAWN SJA
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JOB NO 11641
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RETAINING WALL PARTIAL PLAN

SCALE: 1/16" = 1'-0"



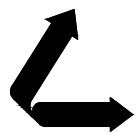
SECTION AT RETAINING WALL

SCALE: 1/16" = 1'-0"

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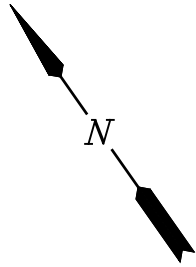


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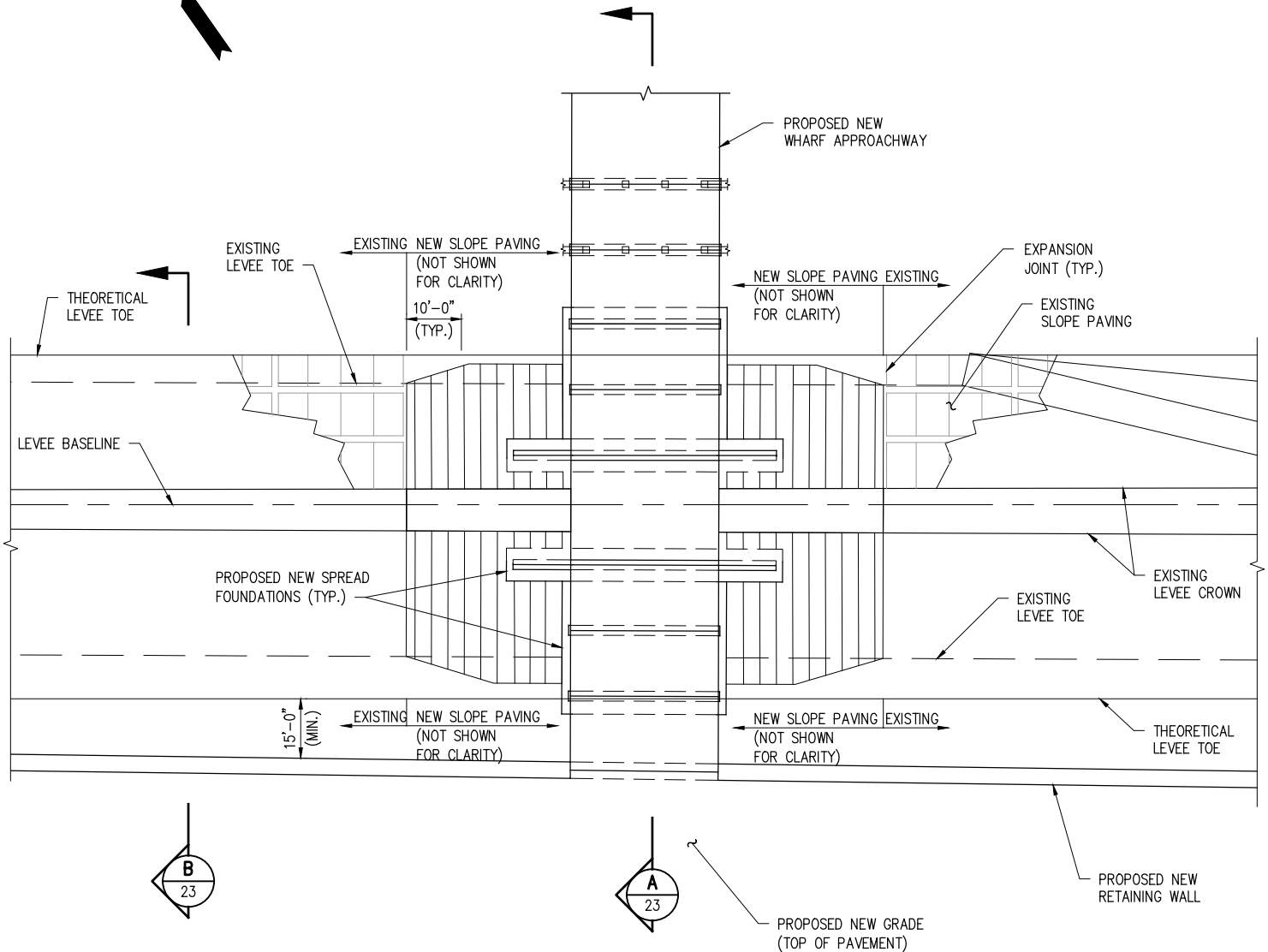
LA 23 DEVELOPMENT COMPANY
PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW RETAINING WALL
PLAN AND SECTION

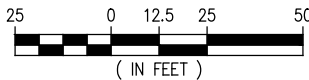
DATE MAR. 2022
DESIGN MDF
DRAWN LPR
CHECK JPL
JOB NO. 11641
SHEET No. 20 OF 32



MISSISSIPPI RIVER



DETAIL 1
SCALE: 1" = 50'

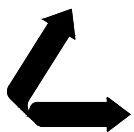


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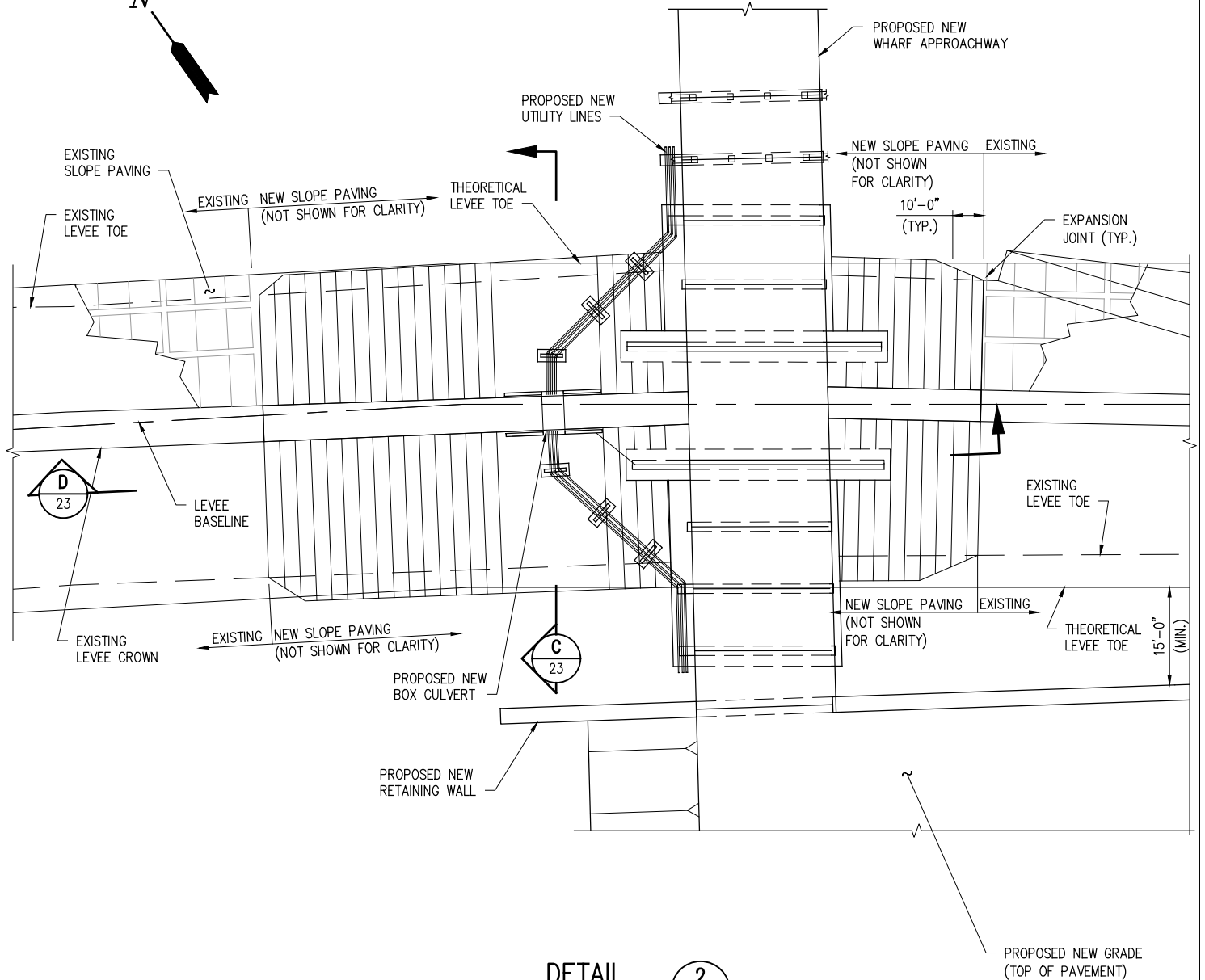
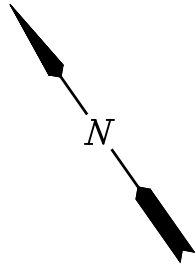
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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW ACCESS RAMP
PLAN (1 OF 2)

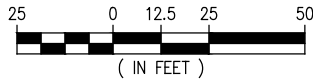
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DESIGN MDF
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JOB NO. 11641
SHEET No. 21 OF 32

MISSISSIPPI RIVER



DETAIL 2

SCALE: 1" = 50'



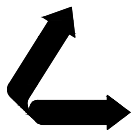
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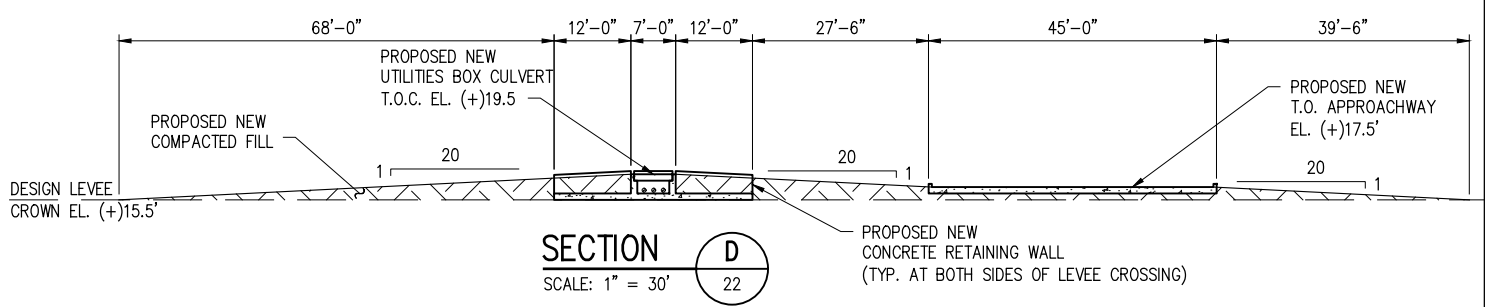
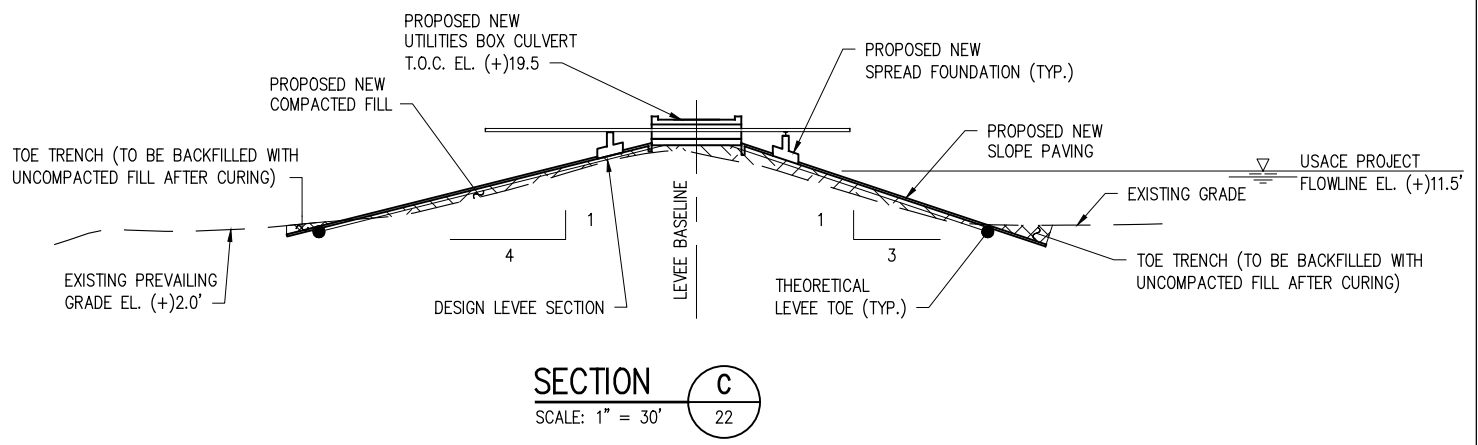
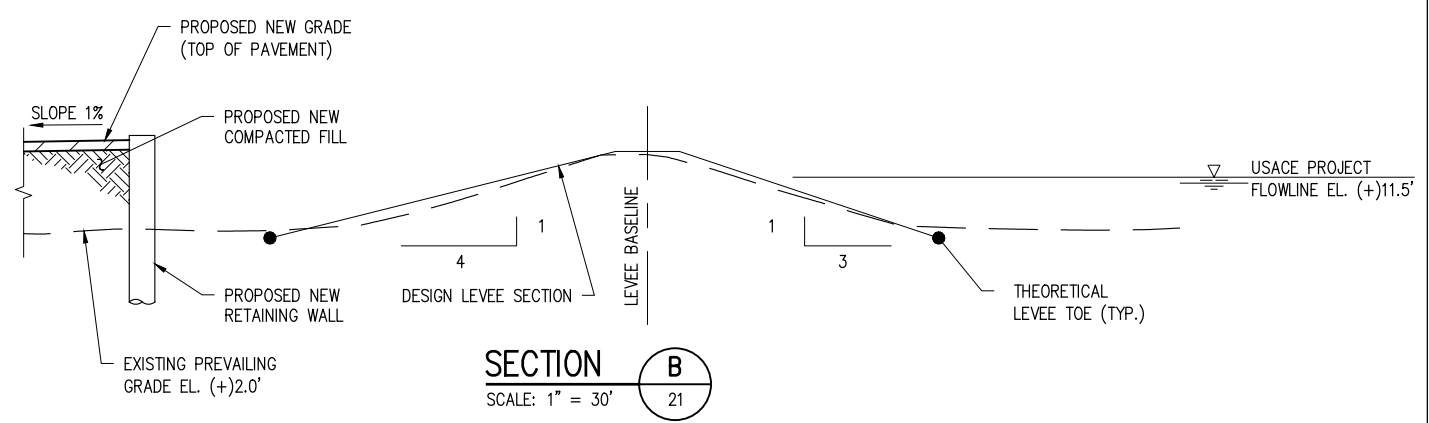
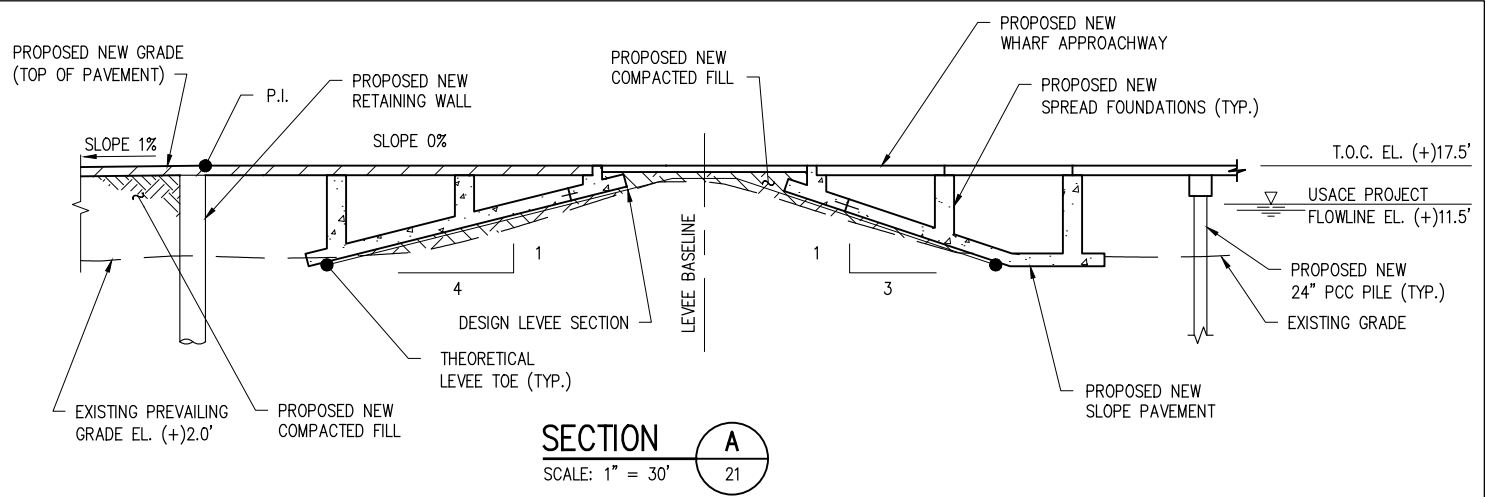
LA: EF-1120 TX: F-2981
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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW ACCESS RAMP
PLAN (2 OF 2)

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SHEET No.
22 OF 32

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LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW ACCESS RAMP
SECTIONS

DATE	MAR. 2022
DESIGN	MDF
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CHECK	JPL
JOB NO.	11641
SHEET No.	23 OF 32

MISSISSIPPI RIVER

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LWRP

EXISTING
LEVEE TOE

EXISTING
LEVEE CROWN

PROPOSED NEW
WHARF APPROACHWAY

USACE BASELINE

USACE MON. 1676+61.8

USACE MON. 1688+90.5

PROPOSED NEW
RETAINING WALL

SLOPE

PROPOSED NEW
RETAINING WALL

LA HWY 23

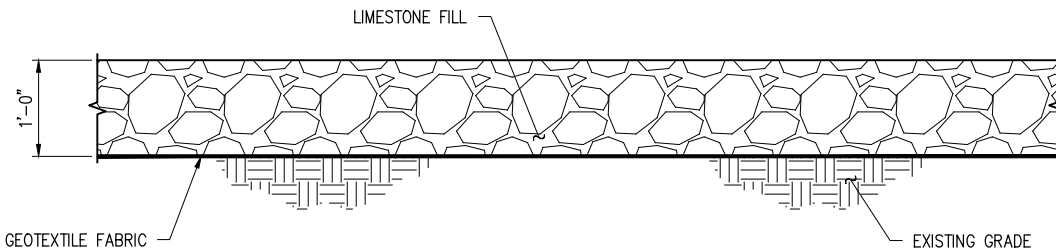
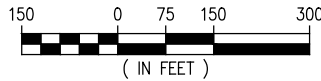
PROPOSED LAYDOWN AREA
(APPROX. 25 ACRES)
(SEE DETAIL THIS SHEET)

R.O.W.

R.O.W.

PROPOSED COSTRUCTION LAYDOWN AREA - PLAN

SCALE: 1" = 300'



PROPOSED CONSTRUCTION LAYDOWN AREA - DETAIL

SCALE: 1" = 2'

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PROPOSED CONSTRUCTION LAYDOWN AREA
PLAN AND DETAIL

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SHEET No.
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MISSISSIPPI RIVER

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LWRP

TEMPORARY CONSTRUCTION CORRIDOR

LEVEE BASELINE

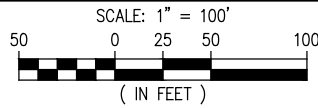
PROPOSED NEW WHARF APPROACHWAY

EXISTING LEVEE TOE

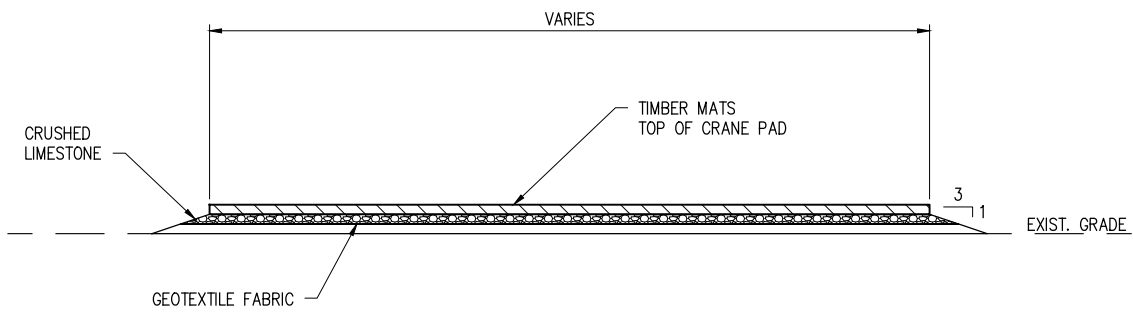
EXISTING LEVEE TOE

TYPICAL CRANE PAD

TYPICAL APPROCHWAY CONSTRUCTION - PLAN



NOTE:
WORK WILL BE PERFORMED
OVER THE ENTIRE WORK AREA



TEMPORARY CONSTRUCTION SECTION

SCALE: 1" = 20'

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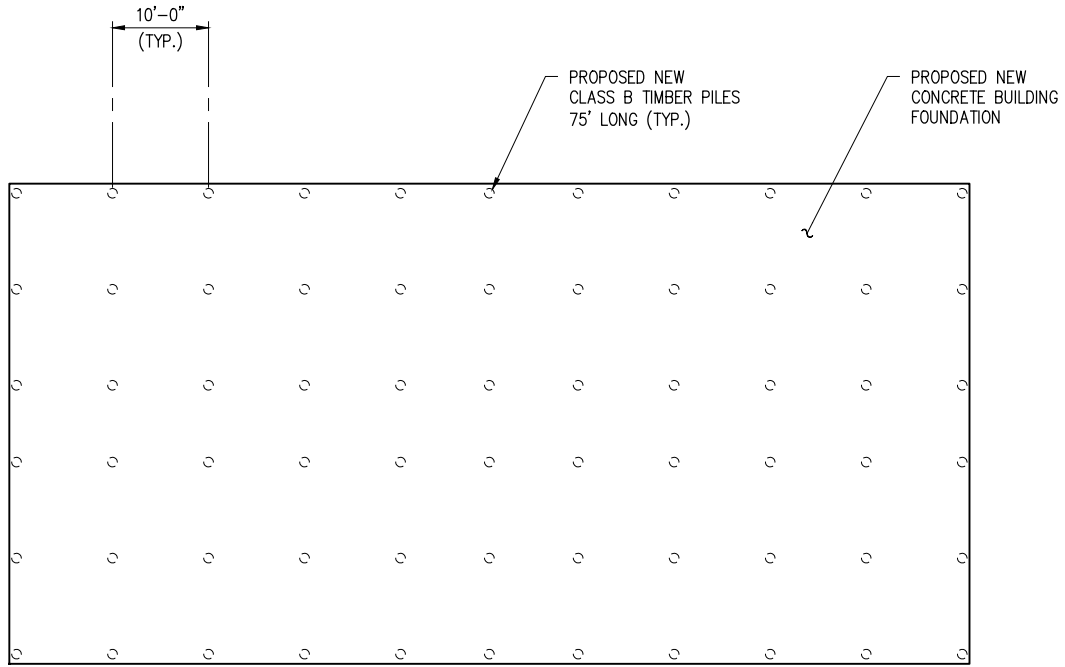
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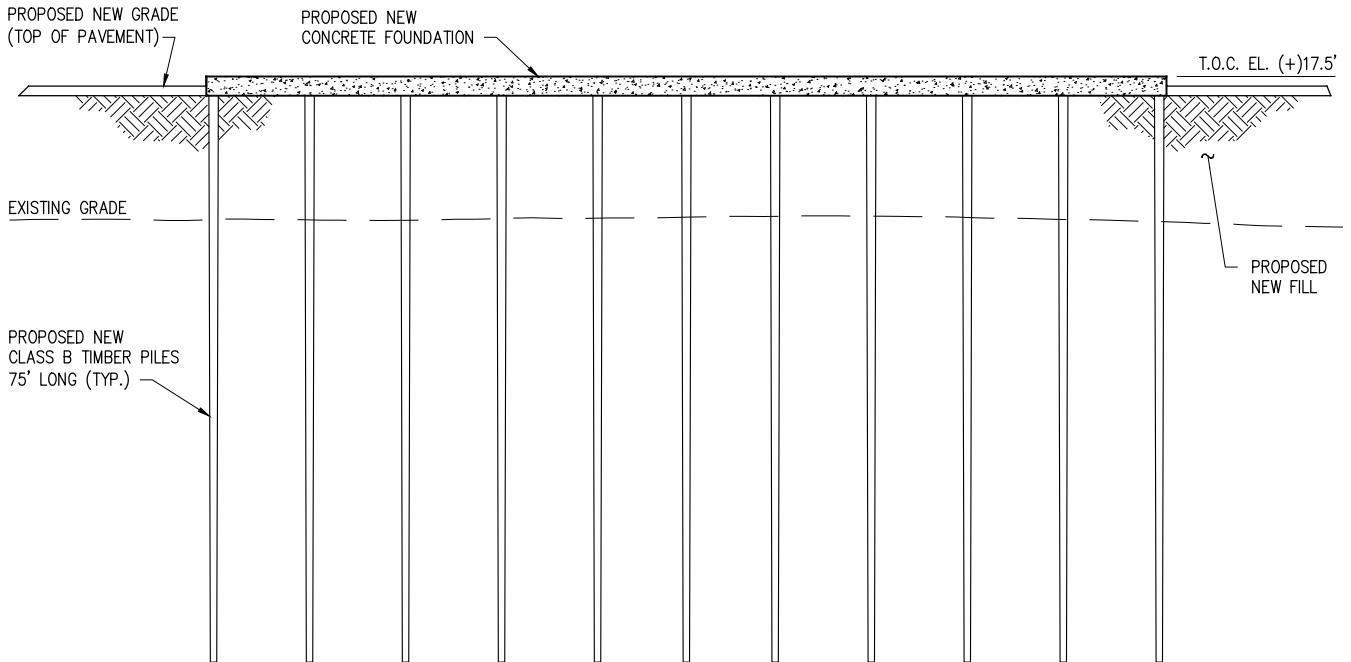
LOUISIANA'S GATEWAY TERMINAL
TYPICAL APPROCHWAY CONSTRUCTION
CORRIDOR - PLAN AND SECTION

DATE	MAR. 2022
DESIGN	MDF
DRAWN	SJA
CHECK	JPL
JOB NO.	11641
SHEET No.	25 OF 32



TYPICAL BUILDING FOUNDATION – PLAN

SCALE: 1" = 20'



TYPICAL BUILDING FOUNDATION – ELEVATION

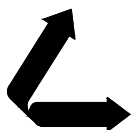
SCALE: 1" = 20'

J:\110005\11641 LA 23 PLAQUEMINE G&C TERMINAL\DRAWINGS\PERMIT\11641-P26.DWG

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LA PE #32628

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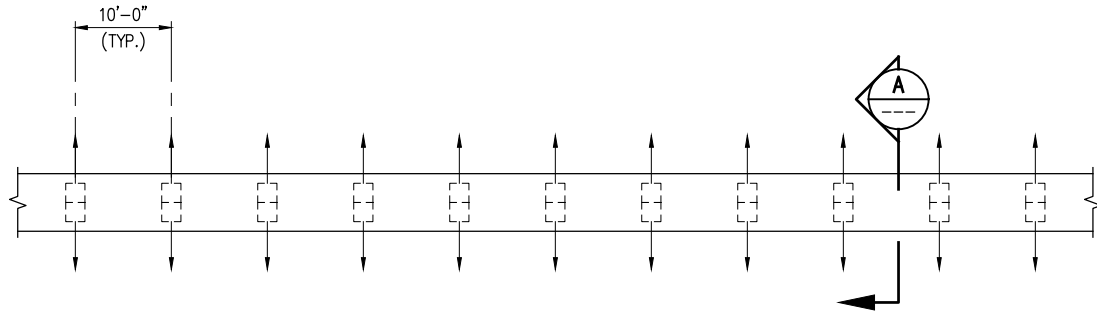
LANIER & ASSOCIATES
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LA 23 DEVELOPMENT COMPANY
PLAQUEMINES PARISH LOUISIANA

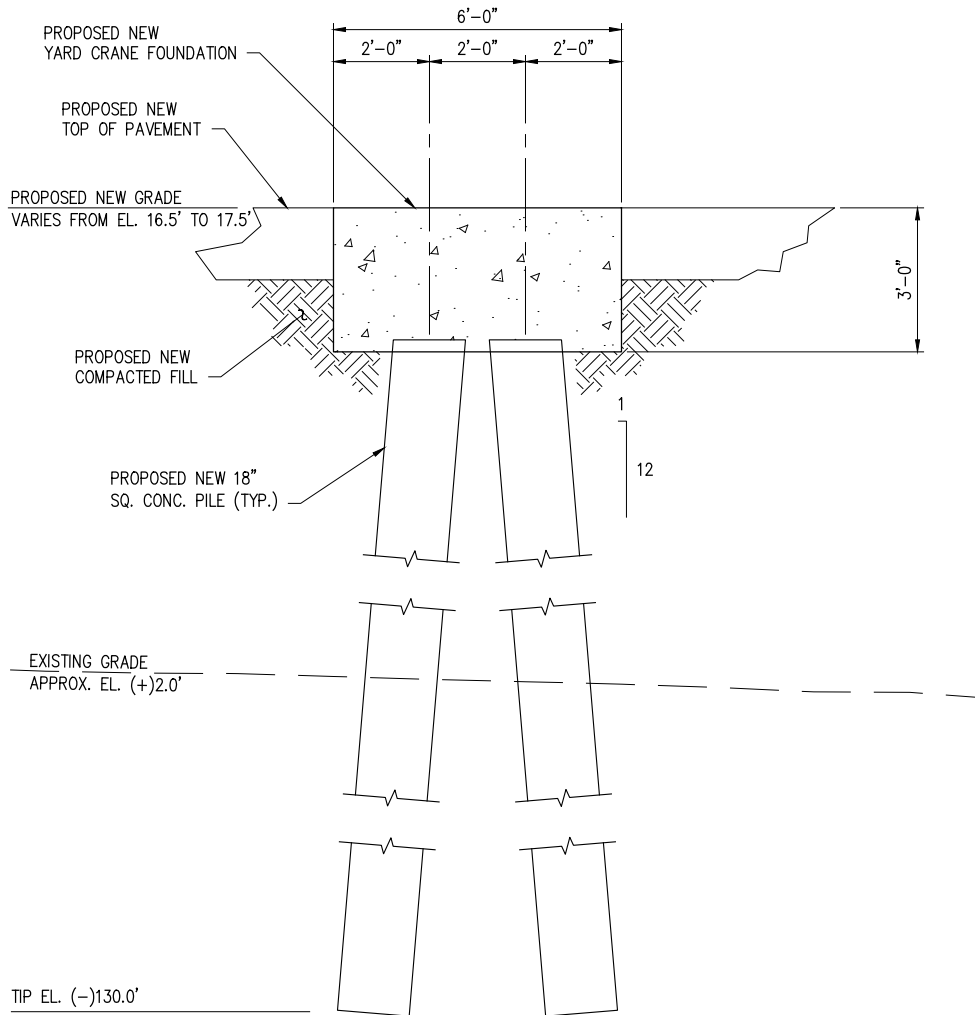
LOUISIANA'S GATEWAY TERMINAL
TYPICAL BUILDING FOUNDATION
PLAN AND ELEVATION

DATE MAR. 2022
DESIGN MDF
DRAWN SJA
CHECK JPL
JOB NO. 11641
SHEET No.
26 OF 32



TYPICAL YARD CRANE FOUNDATION – PLAN

SCALE: 1" = 20'



SECTION



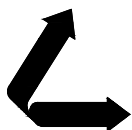
SCALE: 1/4" = 1'-0"

J:\110005\11641 LA 23 PLAQUEMINE GGC TERMINAL\DRAWINGS\PERMIT\11641-P27.DWG

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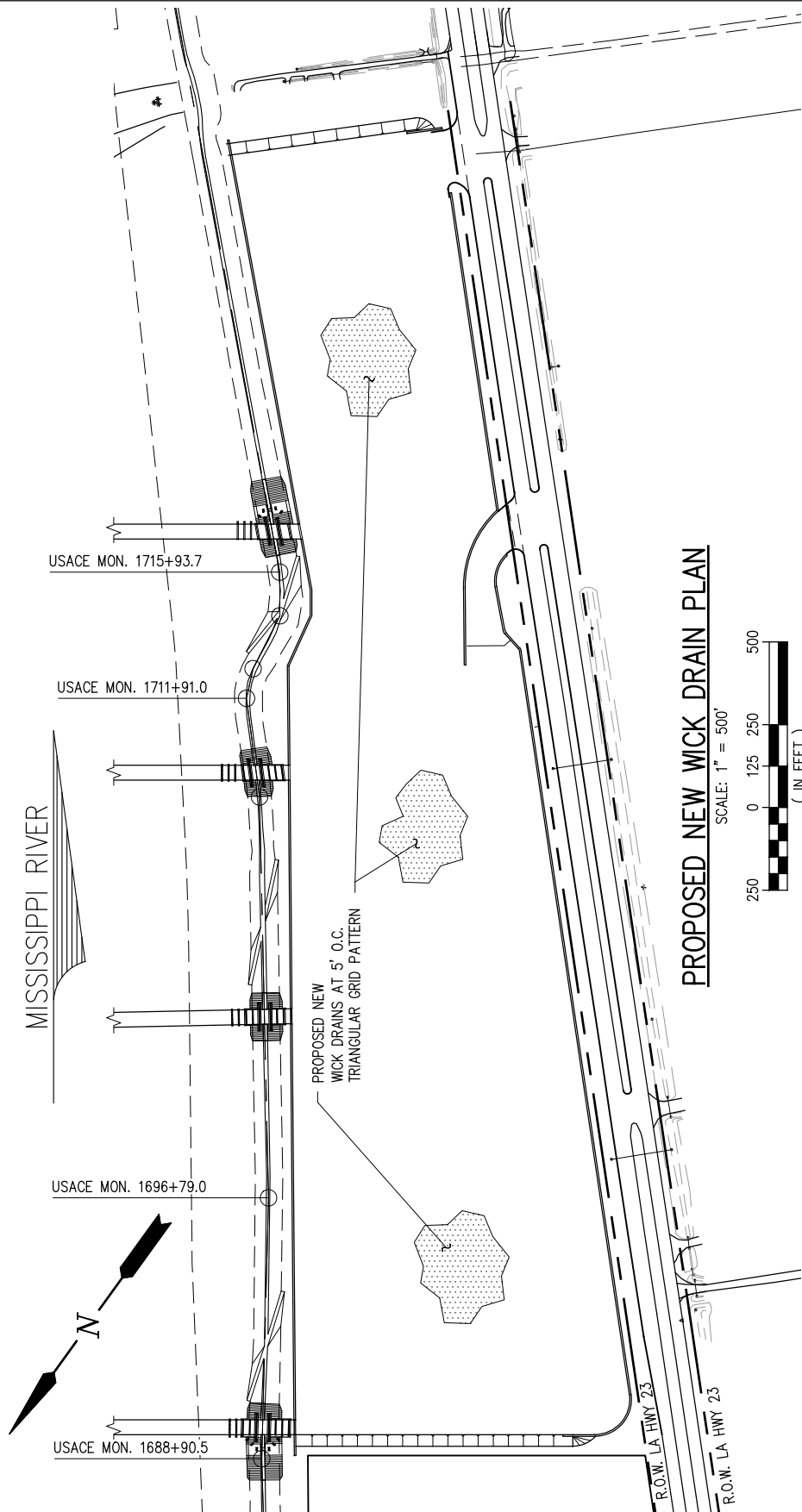
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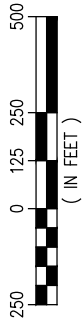
LOUISIANA'S GATEWAY TERMINAL
TYPICAL YARD CRANE FOUNDATION
PLAN AND SECTION

DATE MAR. 2022
DESIGN MDF
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JOB NO. 11641
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PROPOSED NEW WICK DRAIN PLAN

SCALE: 1" = 500'



MISSISSIPPI RIVER

USACE MON. 1715+93.7

USACE MON. 1711+91.0

USACE MON. 1696+79.0

USACE MON. 1688+90.5

PROPOSED NEW WICK DRAINS AT 5' O.C. TRIANGULAR GRID PATTERN

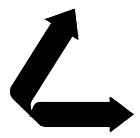
R.O.W. LA HWY 23

R.O.W. LA HWY 23

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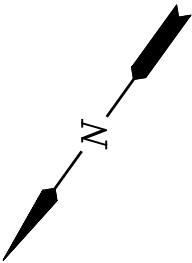
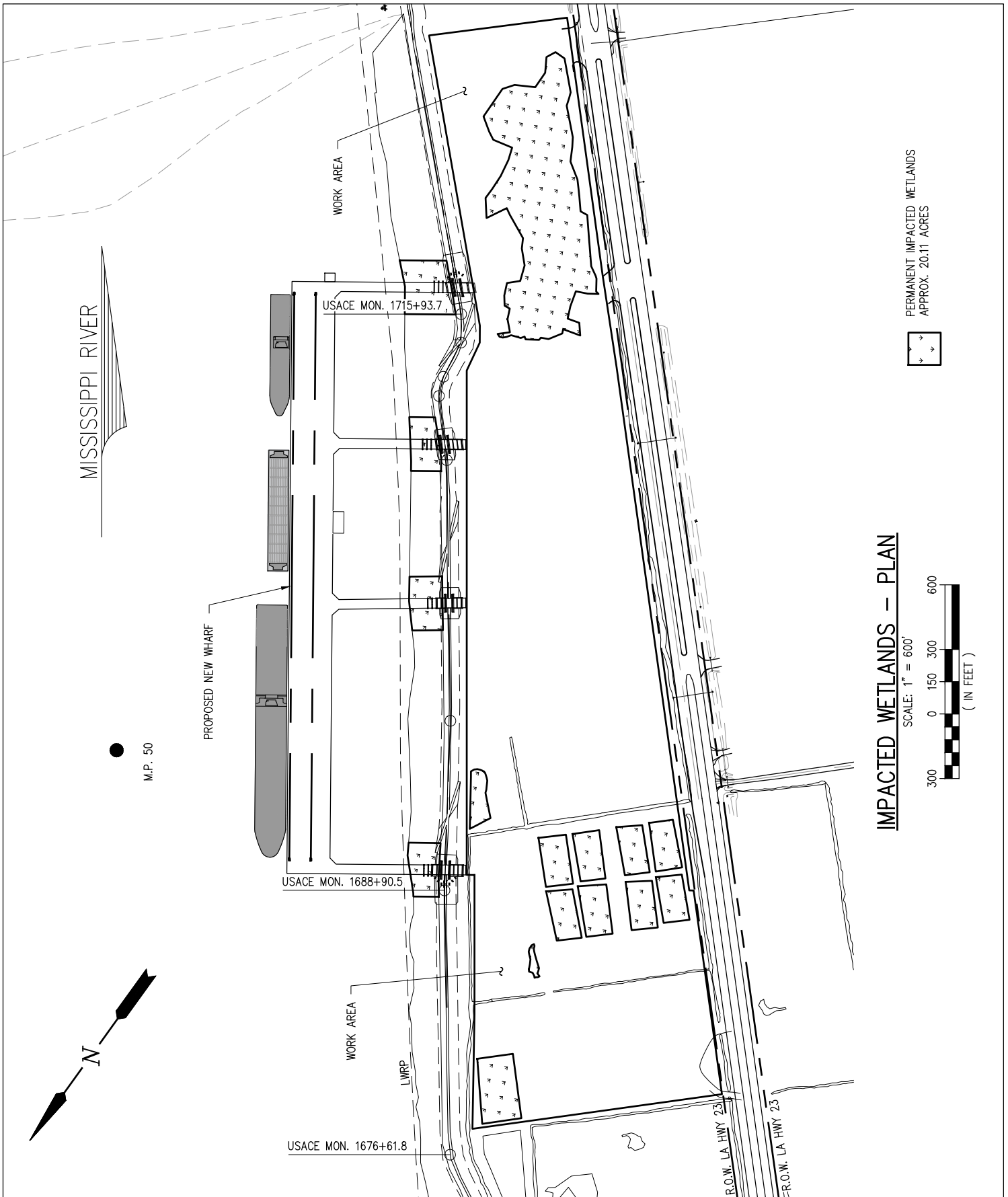


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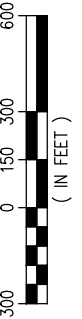
LOUISIANA'S GATEWAY TERMINAL
PROPOSED NEW WICK DRAIN
PLAN AND SECTION

DATE MAR. 2022
DESIGN MDF
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IMPACTED WETLANDS - PLAN

SCALE: 1" = 600'



PERMANENT IMPACTED WETLANDS
APPROX. 20.11 ACRES



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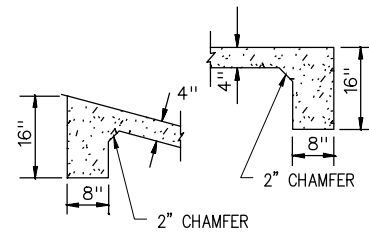
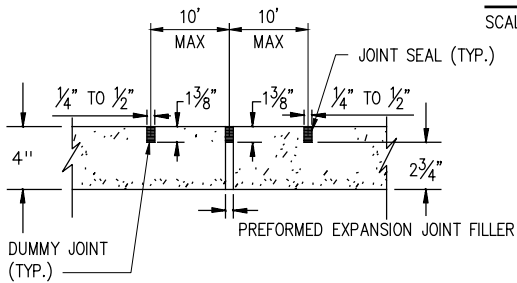
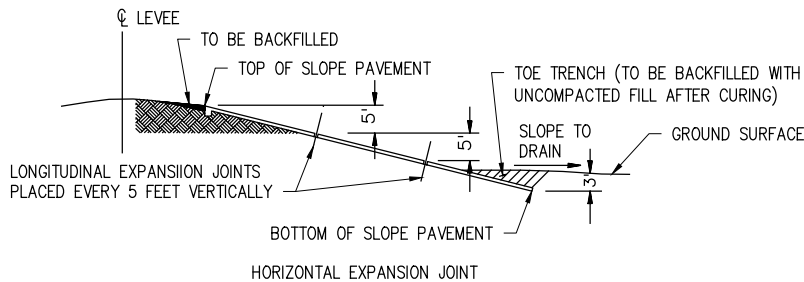
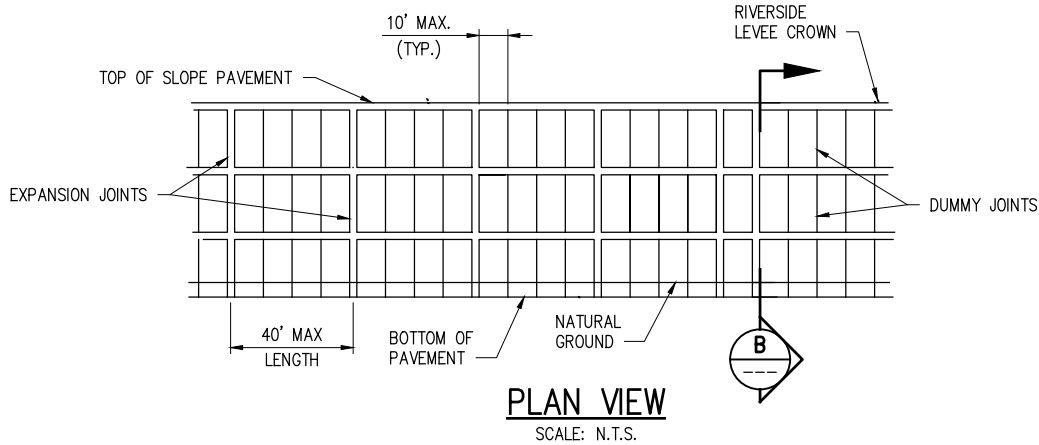
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LOUISIANA'S GATEWAY TERMINAL

IMPACTED WETLANDS - PLAN

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8" CUT-OFF WALL TO BE CONSTRUCTED ALONG THE TOP AND AT EACH END OF THE PAVEMENT FROM TOP TO BOTTOM.

SLOPE PAVING DETAILS

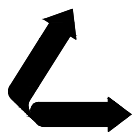
NOTES:

1. CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN FOOTINGS RESTS ON LEVEE SLOPE. PAVEMENT MUST EXTEND 5' EACH SIDE OF FOOTINGS.
2. IN THE ABSENCE OF FOOTING ON LEVEE, LANDSIDE SLOPE PAVING WILL NOT BE REQUIRED. RIVERSIDE SLOPE PAVING WILL BE REQUIRED WHEN NECESSARY FOR EROSION CONTROL.
3. SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND EXISTING LEVEE.
4. ALL FRESH FILL SHALL BE SODDED OR FERTILIZED AND SEEDDED AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
5. THE CROWN OF THE ENLARGED LEVEE SHALL BE SURFACED WITH ROADWAY WASHED GRAVEL SIX INCHES IN THICKNESS OR NINE INCHES IN THICKNESS FOR FULL WIDTH (10' MIN.) AND LENGTH OF RAMP.
6. FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMPS, PIPE COVER, AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
7. PIPELINE MARKERS SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE IN LINE WITH PIPE CROSSING AND INDICATING OWNER, SIZE AND NUMBER OF LINES, PRODUCT AND ADDRESS FOR CONTACTING OWNER.

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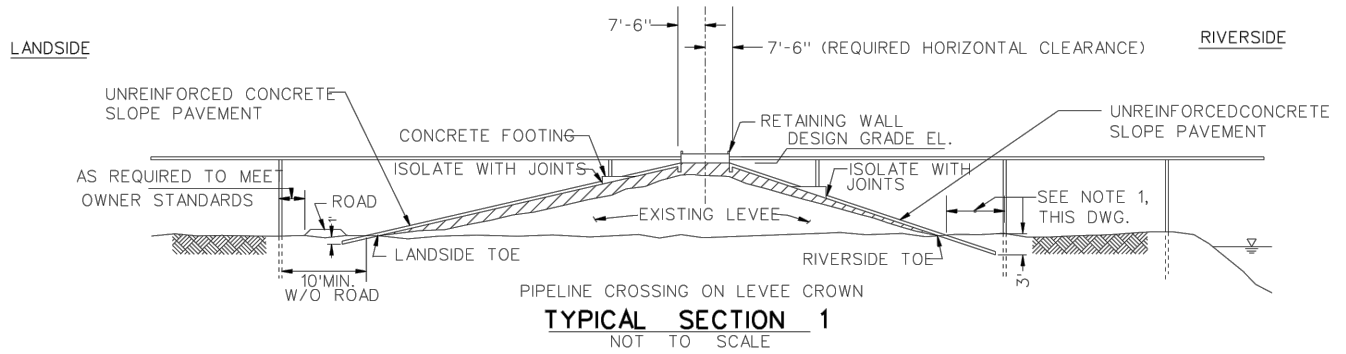


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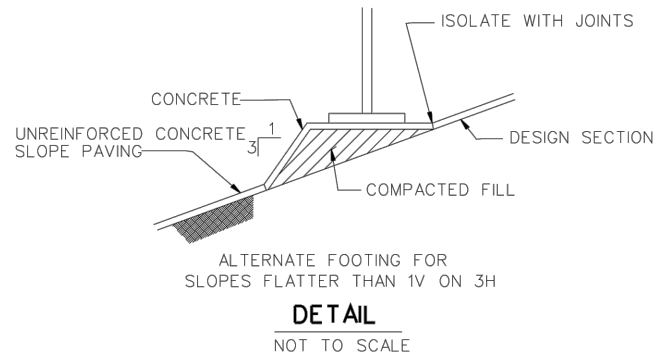
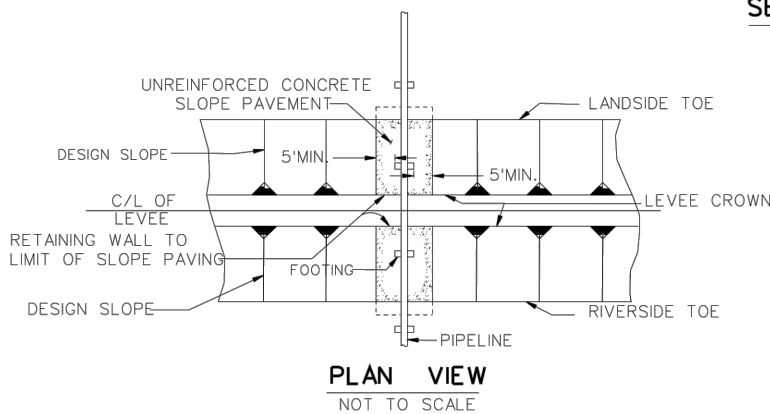
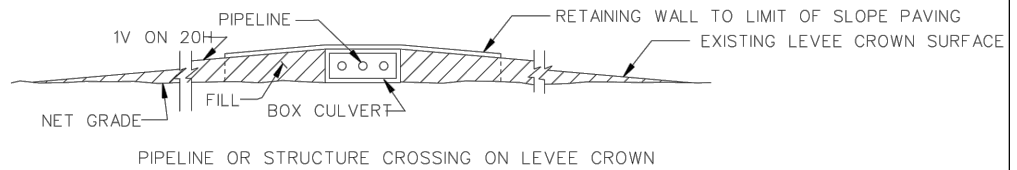
LA 23 DEVELOPMENT COMPANY
PLAQUEMINES PARISH LOUISIANA

LOUISIANA'S GATEWAY TERMINAL
USACE SLOPE PAVING DETAILS

DATE MAR. 2022
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REFERENCE USACE DRAWING:
 PIPE LINE CROSSINGS OVER LEVEES AND FLOODWALLS
 SURFACE CROSSINGS TYPICAL OF RIVER LEVEES
 FILE NUMBER H-8-29027, DRAWING 4 OF 9



EMBANKMENT REQUIREMENTS

COMPACTED FILL: (LEVEE ACCESS ROADS AND FOOTINGS) THE MATERIAL FOR COMPACTED FILL SHALL BE PLACED IN LAYERS. THE FIRST LAYER NOT MORE THAN 4 INCHES IN THICKNESS AND THE SUCCEEDING LAYERS NOT MORE THAN 8 INCHES IN THICKNESS PRIOR TO COMPACTION. EACH LAYER SHALL BE COMPACTIONED BY 10 COMPLETE PASSES OF A CRAWLER- TYPE TRACTOR WEIGHING NOT LESS THAN 20,000 POUNDS AND EXERTING A UNIT TREAD PRESSURE OF NOT LESS THAN 6 POUNDS PER SQUARE INCH. THE TRACTOR SHALL BE OPERATED AT SPEEDS NOT TO EXCEED 3.5 MILES PER HOUR. IF AN ALTERNATE TYPE COMPACTIONING MACHINE IS USED, TYPE SHOULD BE STATED ON APPLICANT'S DRAWING FOR REVIEW AND APPROVAL.

SEMICOMPACTED FILL: (LEVEE) THE MATERIAL FOR SEMICOMPACTED FILL SHALL BE PLACED OR SPREAD IN LAYERS. THE FIRST LAYER NOT MORE THAN 6 INCHES IN THICKNESS AND THE SUCCEEDING LAYERS NOT MORE THAN 12 INCHES IN THICKNESS PRIOR TO COMPACTION. EACH LAYER SHALL BE COMPACTIONED BY THREE COMPLETE PASSES OF A CRAWLER-TYPE TRACTOR WEIGHING NOT LESS THAN 20,000 POUNDS AND EXERTING A UNIT TREAD PRESSURE OF NOT LESS THAN 6 POUNDS PER SQUARE INCH. THE TRACTOR SHALL BE OPERATED AT SPEEDS NOT TO EXCEED 3.5 MILES PER HOUR. IF AN ALTERNATE TYPE COMPACTIONING MACHINE IS USED, TYPE SHOULD BE STATED ON APPLICANT'S DRAWING FOR REVIEW AND APPROVAL.

UNCOMPACTIONED FILL: (BERMS AND BACKFILL) THE MATERIAL FOR UNCOMPACTIONED FILL SHALL BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS NOT EXCEEDING 3 FEET IN THICKNESS THE LAYERS SHALL BE UNIFORMLY SPREAD, DISTRIBUTED, AND OTHERWISE MANIPULATED DURING PLACEMENT TO SUCH AN EXTENT THAT INDIVIDUAL LOADS OF MATERIAL DEPOSITED ON THE FILL WILL NOT REMAIN INTACT, AND LARGE, OPEN VOIDS IN THE FILL WILL BE ELIMINATED.

SLOPE PAVEMENT DETAILS

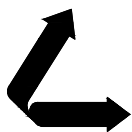
NOTES:

1. 10' MIN. OR AS REQUIRED TO AVOID PENETRATION OF CONCRETE SLOPE PAVEMENT.
2. CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN FOOTINGS RESTS ON LEVEE SLOPE. PAVEMENT MUST EXTEND 5' EACH SIDE OF FOOTINGS.
3. IN THE ABSENCE OF FOOTING ON LEVEE, LANDSIDE SLOPE PAVING WILL NOT BE REQUIRED. RIVERSIDE SLOPE PAVING WILL BE REQUIRED WHEN NECESSARY FOR EROSION CONTROL.
4. SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND EXISTING LEVEE.
5. ALL FRESH FILL SHALL BE SODDED OR FERTILIZED AND SEEDING AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
6. THE CROWN OF THE ENLARGED LEVEE SHALL BE SURFACED WITH ROADWAY WASHED GRAVEL SIX INCHES IN THICKNESS OR NINE INCHES IN THICKNESS FOR FULL WIDTH (10' MIN.) AND LENGTH OF RAMP.
7. FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMPS, PIPE COVER, AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
8. PIPELINE MARKERS SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE IN LINE WITH PIPE CROSSING AND INDICATING OWNER, SIZE AND NUMBER OF LINES, PRODUCT AND ADDRESS FOR CONTACTING OWNER

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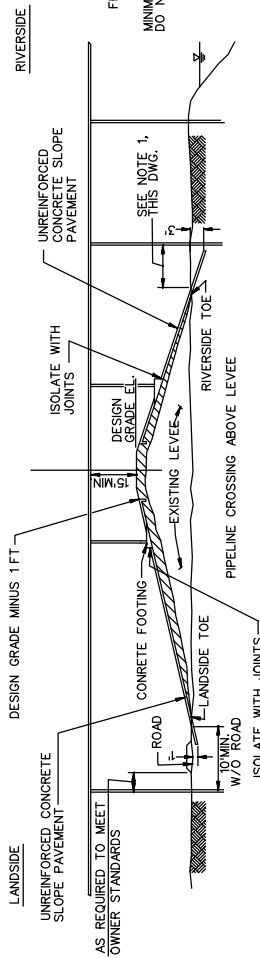


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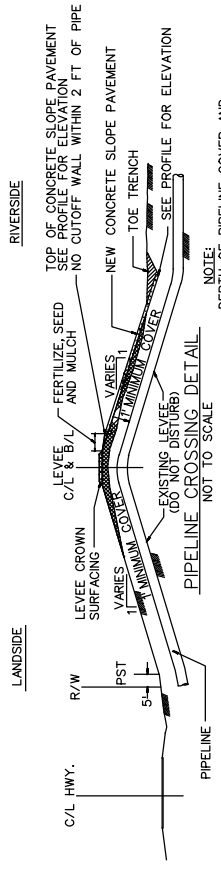
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LOUISIANA'S GATEWAY TERMINAL
USACE LEVEE PIPE CROSSING DETAILS

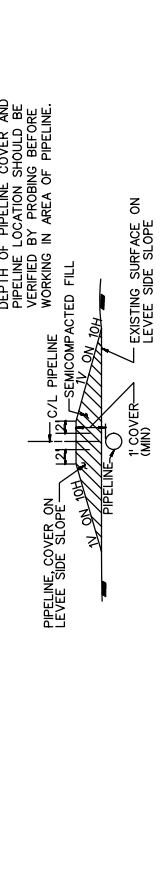
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 CHECK JPL
 JOB NO 11641
 SHEET No.
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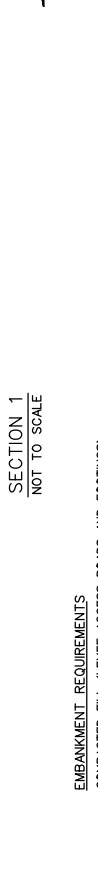
TYPICAL SECTION 2
NOT TO SCALE



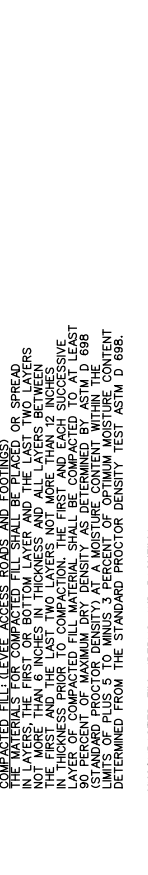
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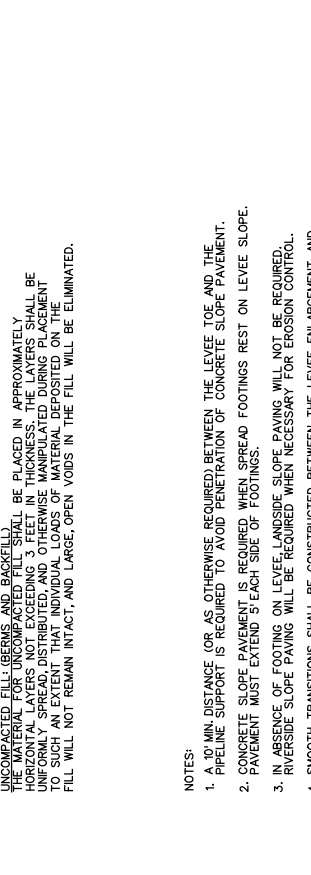
SECTION A
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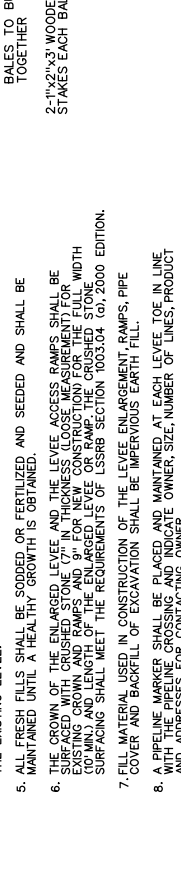
SECTION B
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



ELEVATION VIEW
NOT TO SCALE



- NOTES:**
1. A 10' MIN. DISTANCE OR AS OTHERWISE REQUIRED BETWEEN THE LEVEE TOE AND THE PIPELINE SUPPORT IS REQUIRED TO AVOID PENETRATION OF CONCRETE SLOPE PAVEMENT.
 2. CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN SPREAD FOOTINGS REST ON LEVEE SLOPE. PAVEMENT MUST EXTEND 5' EACH SIDE OF FOOTINGS.
 3. IN ABSENCE OF FOOTING ON LEVEE, LANDSIDE SLOPE PAVING WILL NOT BE REQUIRED. RIVERSIDE SLOPE PAVING WILL BE REQUIRED WHEN NECESSARY FOR EROSION CONTROL.
 4. SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND THE EXISTING LEVEE.
 5. ALL FRESH FILLS SHALL BE SODDED OR FERTILIZED AND SEEDED AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
 6. THE CROWN OF THE ENLARGED LEVEE AND THE LEVEE ACCESS RAMPS SHALL BE SURFACED WITH CRUSHED STONE (7" IN THICKNESS (LOOSE MEASUREMENT) FOR EXISTING CROWN AND RAMPS, AND 9" FOR NEW CONSTRUCTION) FOR THE FULL WIDTH OF THE ENLARGEMENT AND RAMPS. THE LENGTH OF THE CRUSHED STONE SURFACING SHALL MEET THE REQUIREMENTS OF USCSB SECTION 105.03A (6), 2000 EDITION.
 7. FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMPS, PIPE COVER AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
 8. A PIPELINE MARKER SHALL BE PLACED AND MAINTAINED AT EACH LEVEE TOE IN LINE WITH THE PIPELINE CROSSING AND INDICATE OWNER SIZE, NUMBER OF LINES, PRODUCT AND ADDRESSES FOR CONTRACTING OWNER.
- EMBANKMENT REQUIREMENTS**
- COMPACTED FILL (LEVEE ACCESS ROADS AND FOOTINGS) SHALL BE PLACED IN LAYERS NOT MORE THAN 6 INCHES IN THICKNESS AND ALL LAYERS BETWEEN LAYERS SHALL BE COMPACTED TO THE FIRST AND LAST SUCCESSIVE LAYERS. THE COMPACTED FILL MATERIAL SHALL BE DETERMINED TO AT LEAST 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. THE MOISTURE CONTENT SHALL BE DETERMINED TO WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT DETERMINED FROM THE STANDARD PROCTOR DENSITY TEST ASTM D 698.
- UNCOMPACTED FILL (BERMS AND BACKFILL) SHALL BE PLACED IN APPROXIMATELY 12 INCH LAYERS NOT MORE THAN 6 INCHES IN THICKNESS. THE FILL SHALL BE UNIFORM IN SPREAD DISTRIBUTION AND OTHERWISE IMPLIED DURING SOIL PLACEMENT TO SUCH AN EXTENT THAT INDIVIDUAL LOADS OF MATERIAL DEPOSITED ON THE FILL WILL NOT REMAIN INTACT, AND LARGE, OPEN VOIDS IN THE FILL WILL BE ELIMINATED.

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LOUISIANA'S GATEWAY TERMINAL
USACE SURFACE CROSSINGS TYPICAL
FOR RIVER LEVEES

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