

JOINT PUBLIC NOTICE

August 27, 2018

United States Army Corps of Engineers
New Orleans District
Regulatory Branch
7400 Leake Avenue
New Orleans, Louisiana 70118

(504) 862-1301
Project Manager
Neil T. Gauthier
Neil.T.Gauthier@USACE.army.mil
MVN 2018-00159-CM

State of Louisiana
Department of Environmental Quality
Water Permits Division
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(225) 219-3225
Project Manager
Elizabeth Hill
WQC Application Number
WQC 180816-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the US 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).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications Section, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS 30:2074 A(3) and provisions of Section 401 of the Clean Water Act.

PROPOSED CONSTRUCTION OF A GREENFIELD CHEMICAL COMPLEX ON THE MISSISSIPPI RIVER IN ST. JAMES PARISH

NAME OF APPLICANT: FG LA, LLC, c/o Zephyr Environmental Corporation, Attn: Lance Gillaspie, 2600 Via Fortuna Ste 450, Austin, Texas 78746.

LOCATION OF WORK: On the Mississippi River, RDB, mile 165.5, approximately 5.5 miles southeast of Donaldsonville, Louisiana, crossing LA Hwy 3127 and the St. James Canal, (30.046, -90.9176) in Welcome, Louisiana, within the Vermillion-Teche Basin, in hydrologic unit (HUC 08090301), as shown on the attached drawings.

CHARACTER OF WORK: The applicant has requested Department of the Army authorization to clear, grade, excavate, and place fill and aggregate material to construct and maintain a Greenfield Petrochemical Complex and Marine Facility which will include the construction of a dock, water intake structure, heavy haul Mississippi River levee crossing/road, barge dock, and ship dock. Additionally, the complex will include a rail complex that will connect with the existing railroad crossing the site, power generation facilities, pipelines for import and export of materials, waste water treatment plant and several storm water detention ponds. Prior to entering the facility, all pipelines associated with this plant are being processed by other entities who will be constructing and permitting the lines independently. The proposed project is situated in an approximately 2,319-acre site that has been determined to contain jurisdictional forested and herbaceous wetlands

and of other waters of the U.S.

A Preliminary analysis has determined that the proposed project would directly impact approximately 79.2 acres of jurisdictional forested and herbaceous wetlands and 58.3 acres of other waters of the U.S. It is anticipated that the proposed project would have no impact on adjacent wetlands.

The applicant stated that the proposed project has been designed to avoid and minimize direct and secondary adverse impacts to the maximum extent practicable. Any further reduction would limit usage of the property deeming the project impracticable. As compensation for unavoidable wetland impacts, the applicant proposes to mitigate in-kind wetland credits from a Corps approved mitigation bank located in the watershed.

The comment period for the Department of Army will close in **30 days** from the date of this joint 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/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH.** Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

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 US 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 US 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.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, pre-historical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Interior. Utilizing Standard Local Operating Procedure for Endangered Species in Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps has determined that this project is in an area where the pallid sturgeon can be found and this project is Not Likely to Adversely Affect the 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 up to 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 water quality standards will be required from the Department of Environmental Quality, Water Permits Division 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. 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.

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.

JOHN M. HERMAN
Chief, Central Evaluation Section
Regulatory Branch

Enclosures

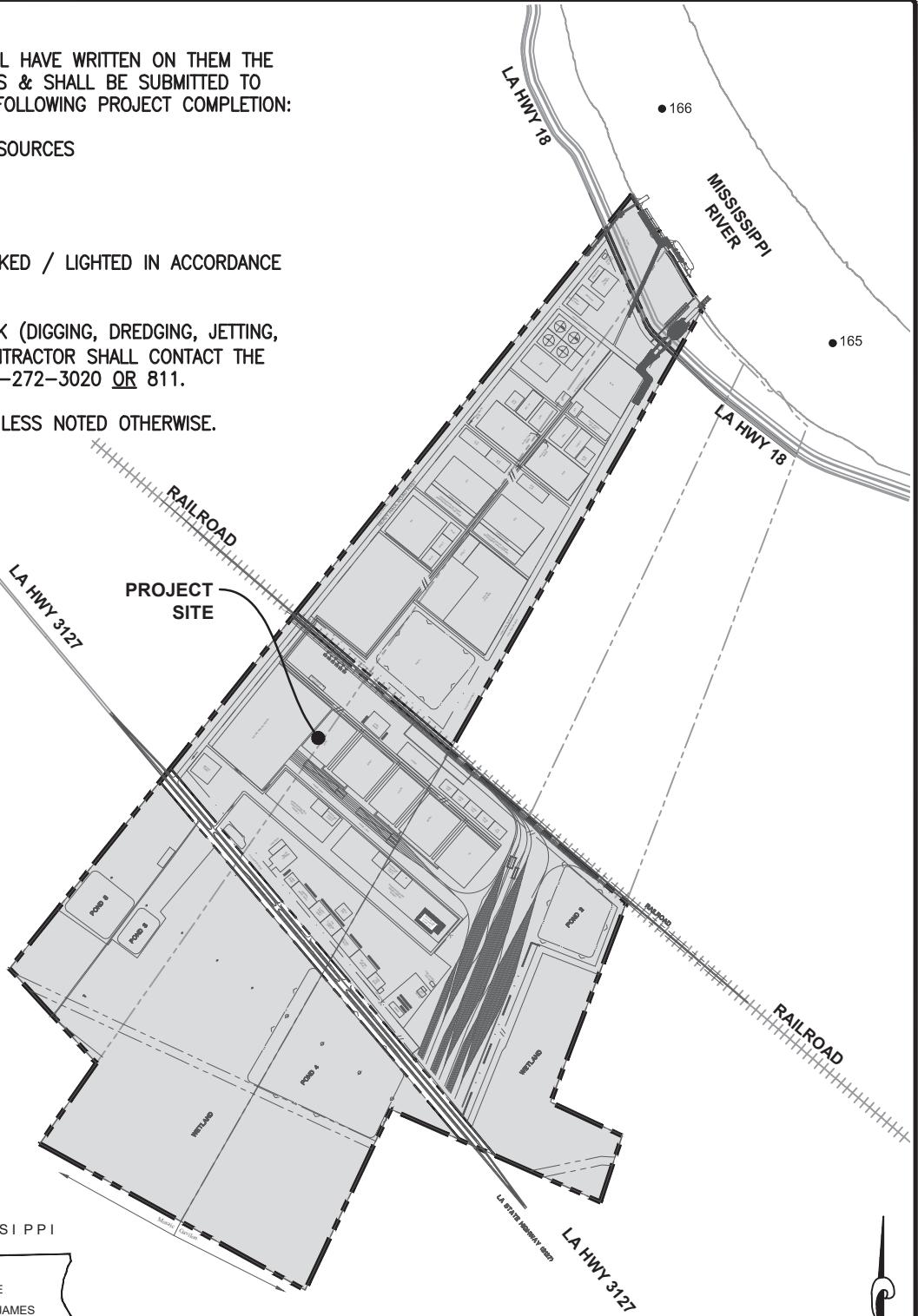
GENERAL NOTES:

- AS-BUILT DRAWINGS &/OR PLANS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES & SHALL BE SUBMITTED TO THE ADDRESS BELOW WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION:

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT
P.O. BOX 44487
BATON ROUGE, LA 70804-4487

2. ALL WATER STRUCTURES SHALL BE MARKED / LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
 3. PRIOR TO ANY ONSITE EXCAVATION WORK (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM AT 1-800-272-3020 OR 811.
 4. ALL ELEVATIONS REFER TO NAVD 88 UNLESS NOTED OTHERWISE.

ST. JAMES PARISH
LATITUDE: 30° 02' 45.590" N
LONGITUDE: 90° 55' 03.350" W



**VICINITY MAP, AREA
MAP & GENERAL NOTES**



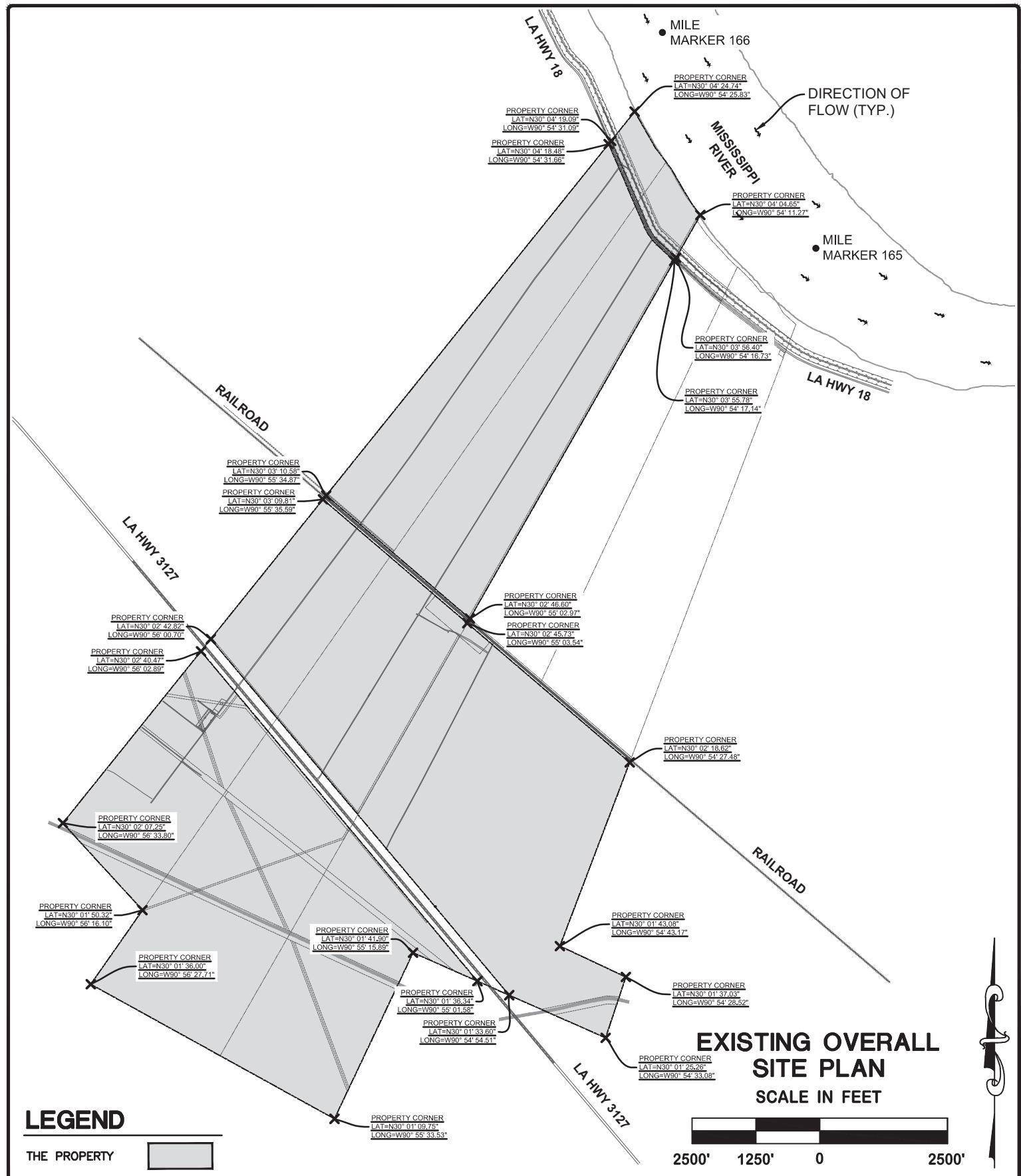
3000' 1500' 0 3000'

DRAWN MTB
CHECKED KTL
ISSUE DATE 12-28-17
PROJECT NO. 17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**



DUPLANTIS DESIGN GROUP, PC
314 E. Bayou Road Thibodaux, LA 70301
Phone: 985.447.0090 \\\ Fax: 985.447.7009



EXISTING OVERALL SITE PLAN SCALE IN FEET

LEGEND

THE PROPERTY

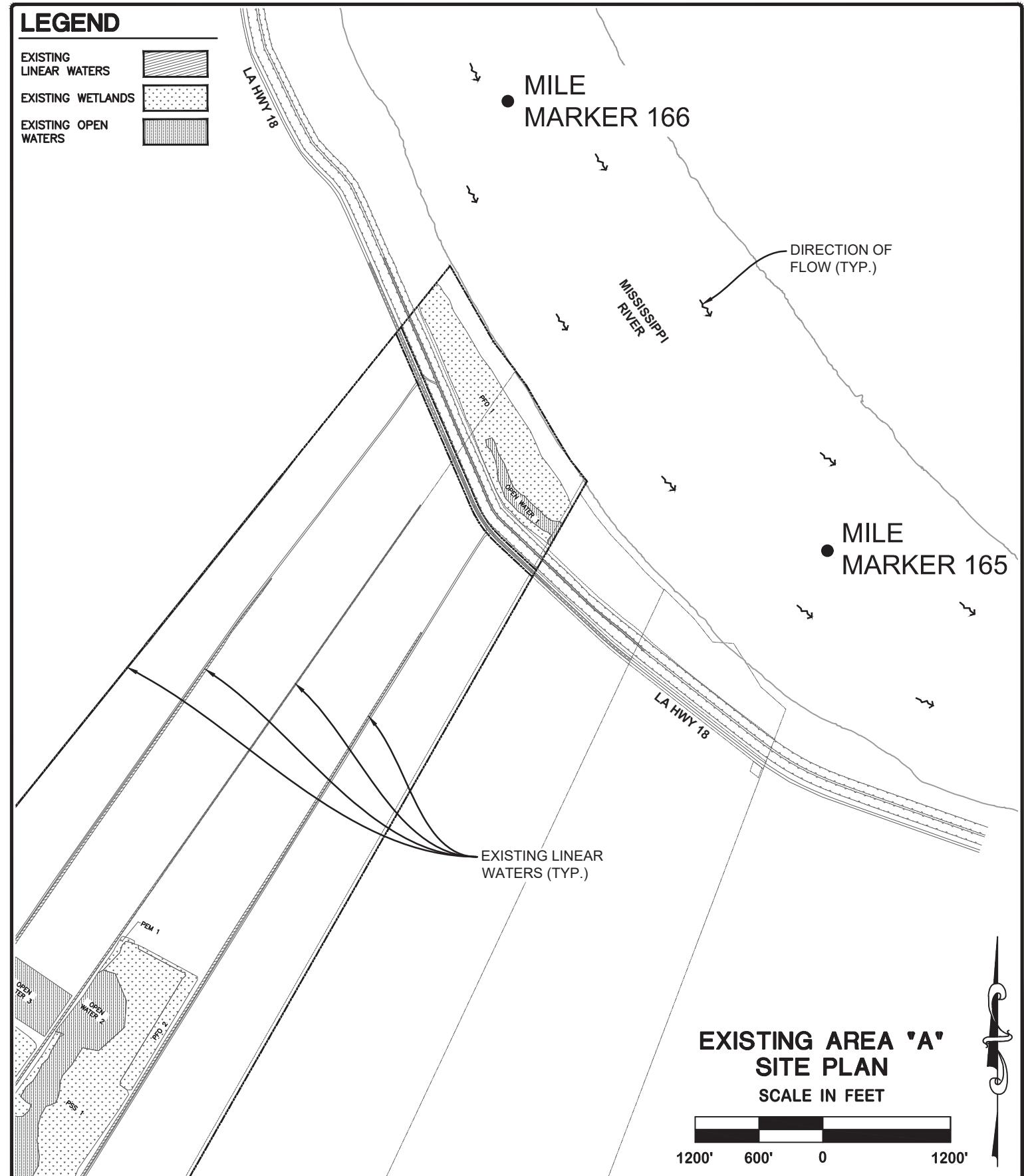
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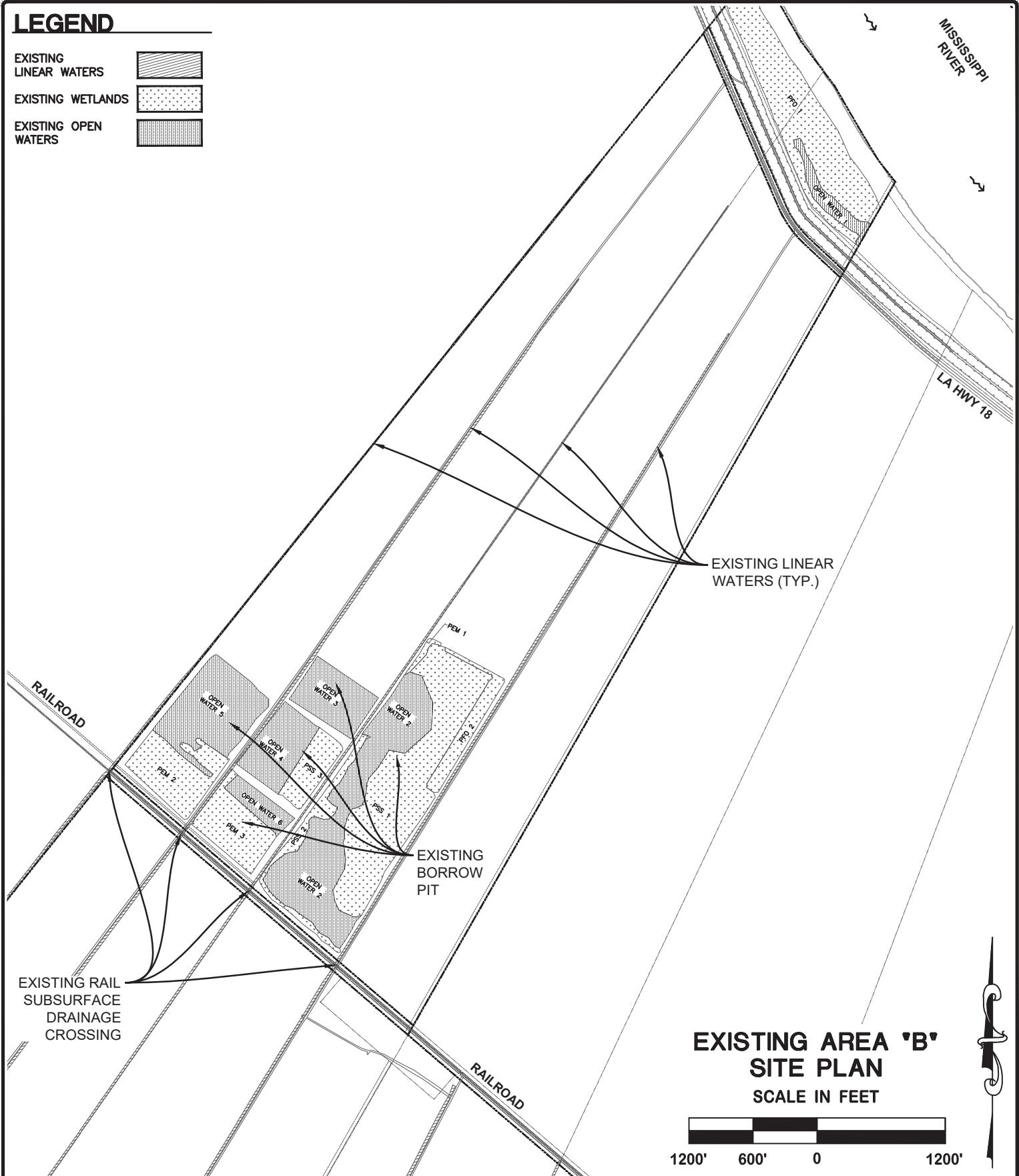
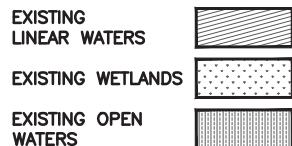
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**EXISTING AREA 'B'
SITE PLAN
SCALE IN FEET**



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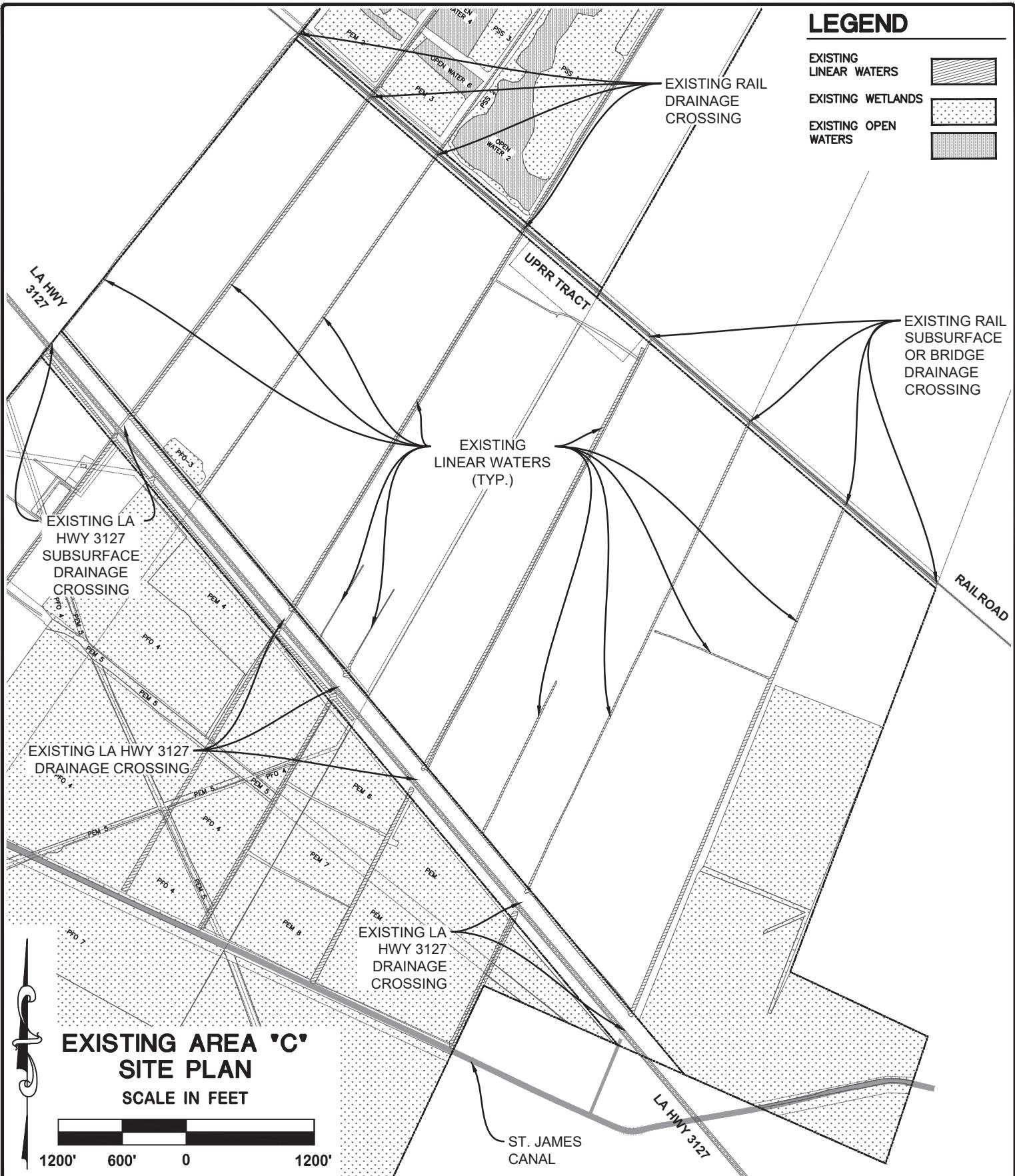
EXISTING LINEAR WATERS



EXISTING WETLANDS



EXISTING OPEN WATERS



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MTB

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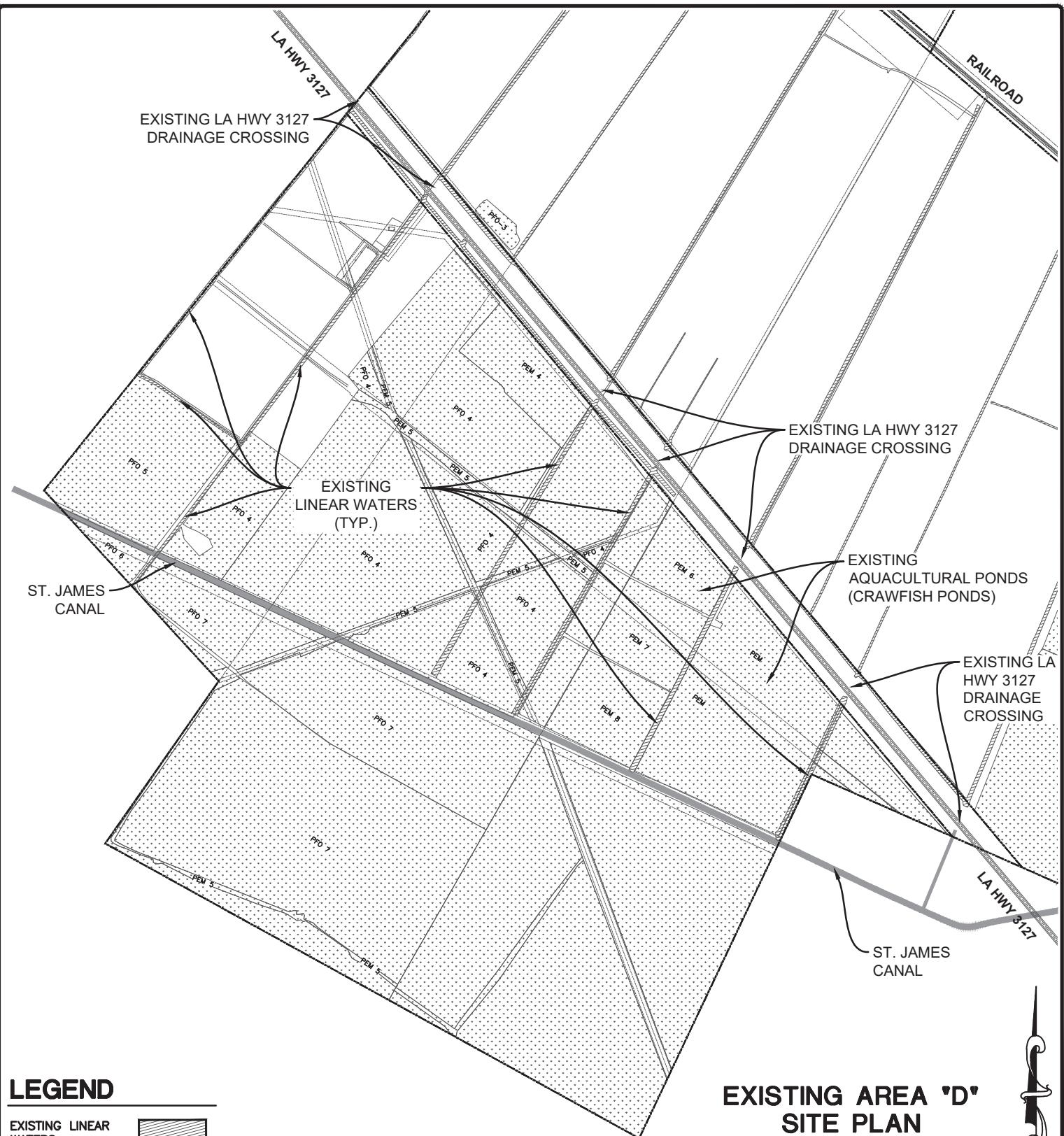


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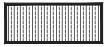
EXISTING LINEAR WATERS



EXISTING WETLANDS



EXISTING OPEN WATERS



**EXISTING AREA 'D'
SITE PLAN**
SCALE IN FEET

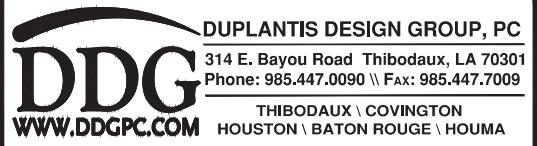
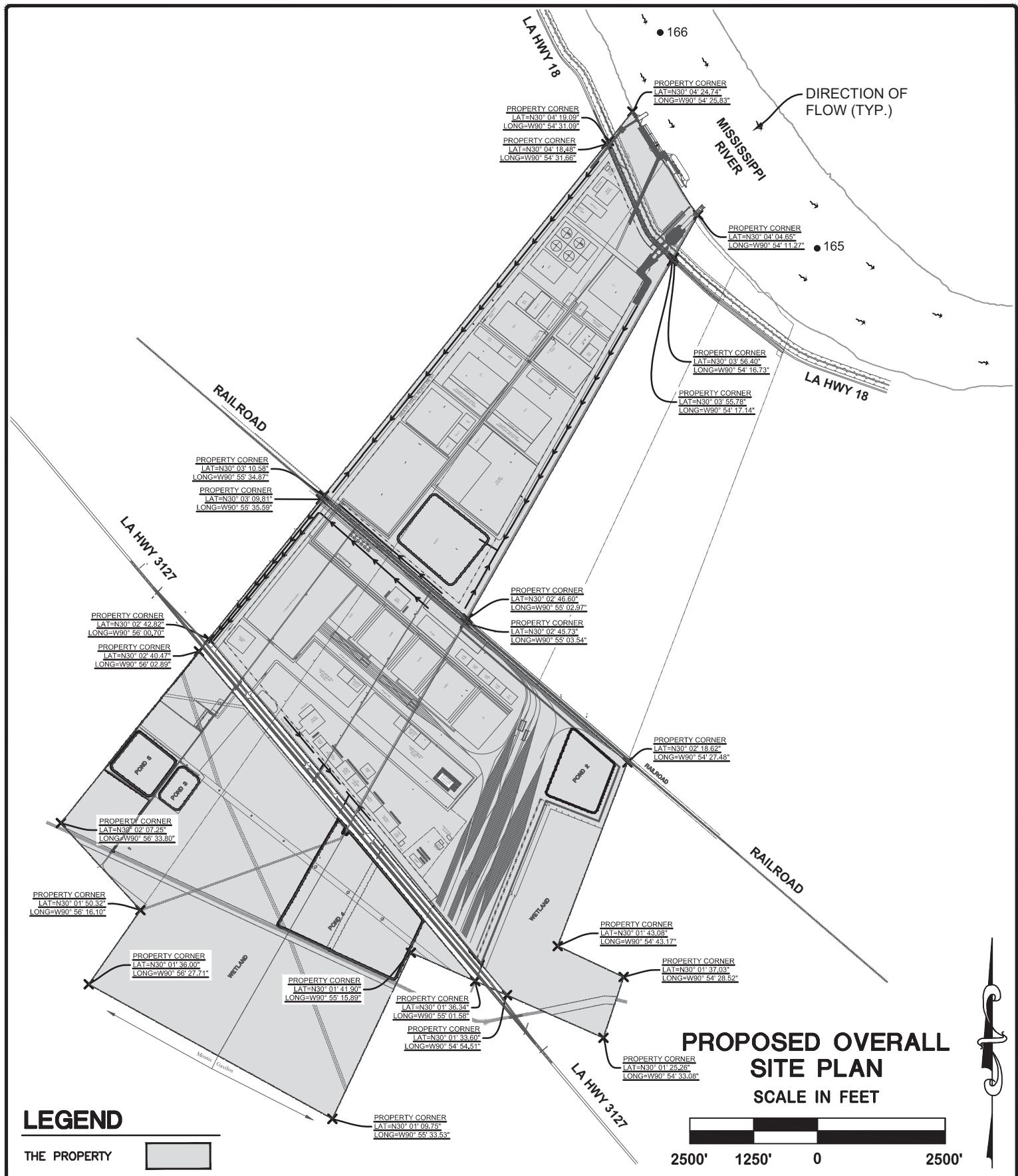


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LEGEND

EXISTING LINEAR
WATERS
(NOT IMPACTED)



EXISTING LINEAR
WATERS (IMPACTED)



EXISTING WETLANDS
(NOT IMPACTED)



EXISTING WETLANDS
(IMPACTED)



EXISTING OPEN
WATERS
(NOT IMPACTED)



EXISTING OPEN
WATERS
(IMPACTED)



PROPOSED SITE
CONTRACTOR DOCK
AND APPROACH
BRIDGE

• 166

MISSISSIPPI
RIVER

DIRECTION OF
FLOW (TYP.)

PROPOSED PERMANENT
BARGE DOCK

PROPOSED
PERMANENT INTAKE
STRUCTURE

PROPOSED PERMANENT
SHIP AND BARGE DOCKS.

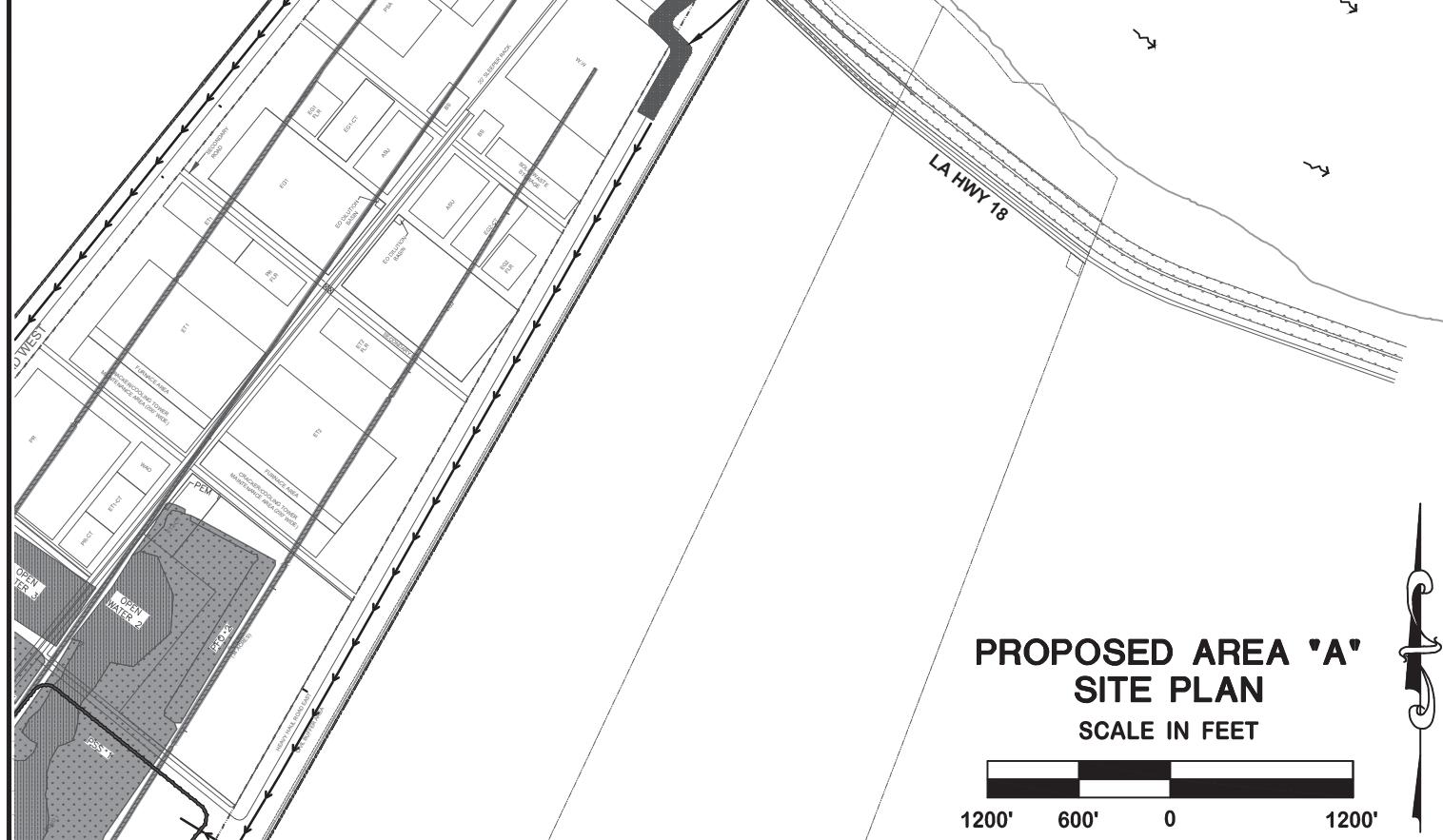
PROPOSED APPROACH
BRIDGE & PIPE RACK

PROPOSED PERMANENT
DISCHARGE

BARGE DOCKING
FACILITY

PROPOSED TEMPORARY
BRIDGE & HEAVY HAUL ROAD

• 165



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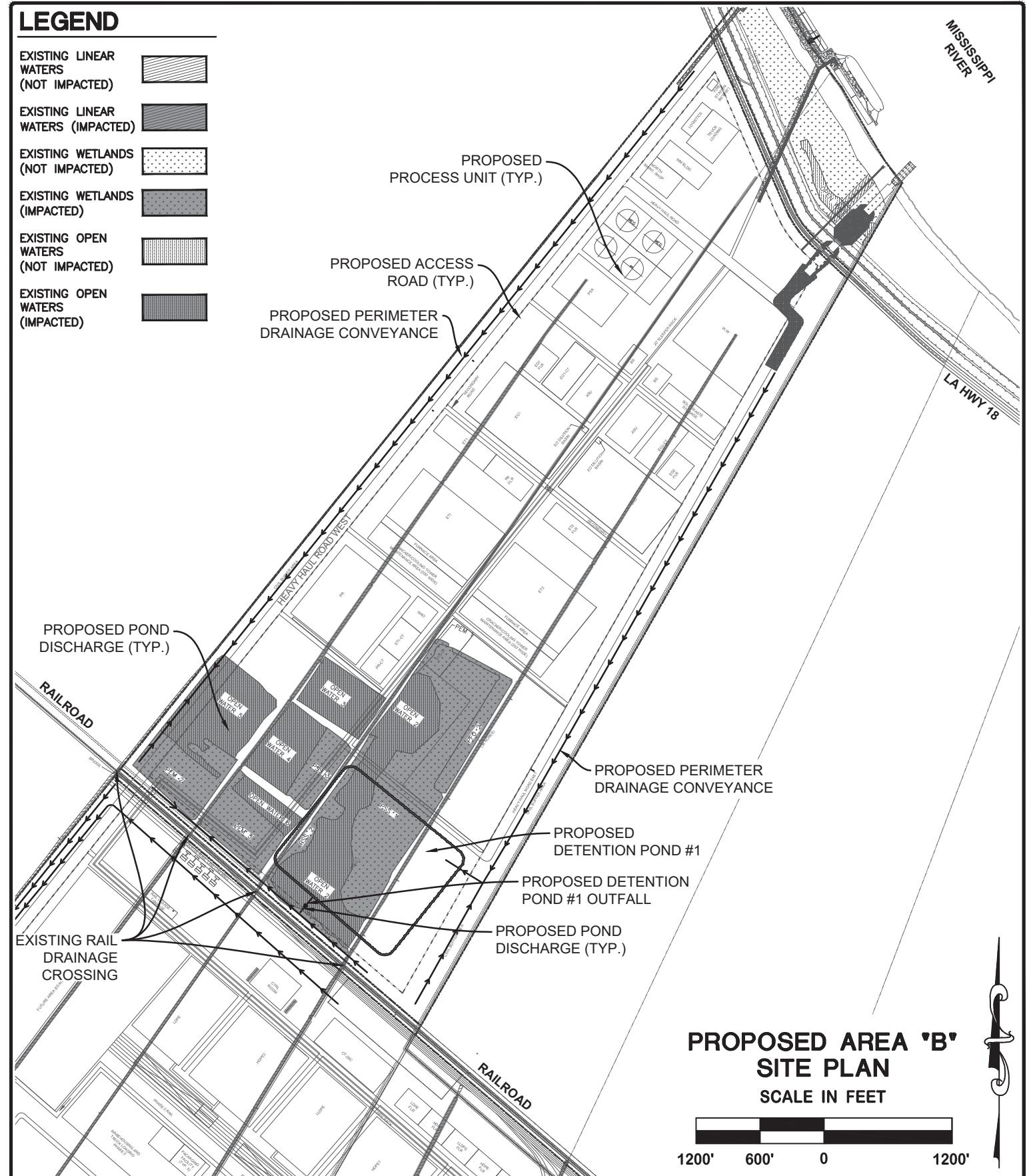


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LEGEND

EXISTING LINEAR WATERS (NOT IMPACTED)	
EXISTING LINEAR WATERS (IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)	
EXISTING WETLANDS (IMPACTED)	
EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING OPEN WATERS (IMPACTED)	



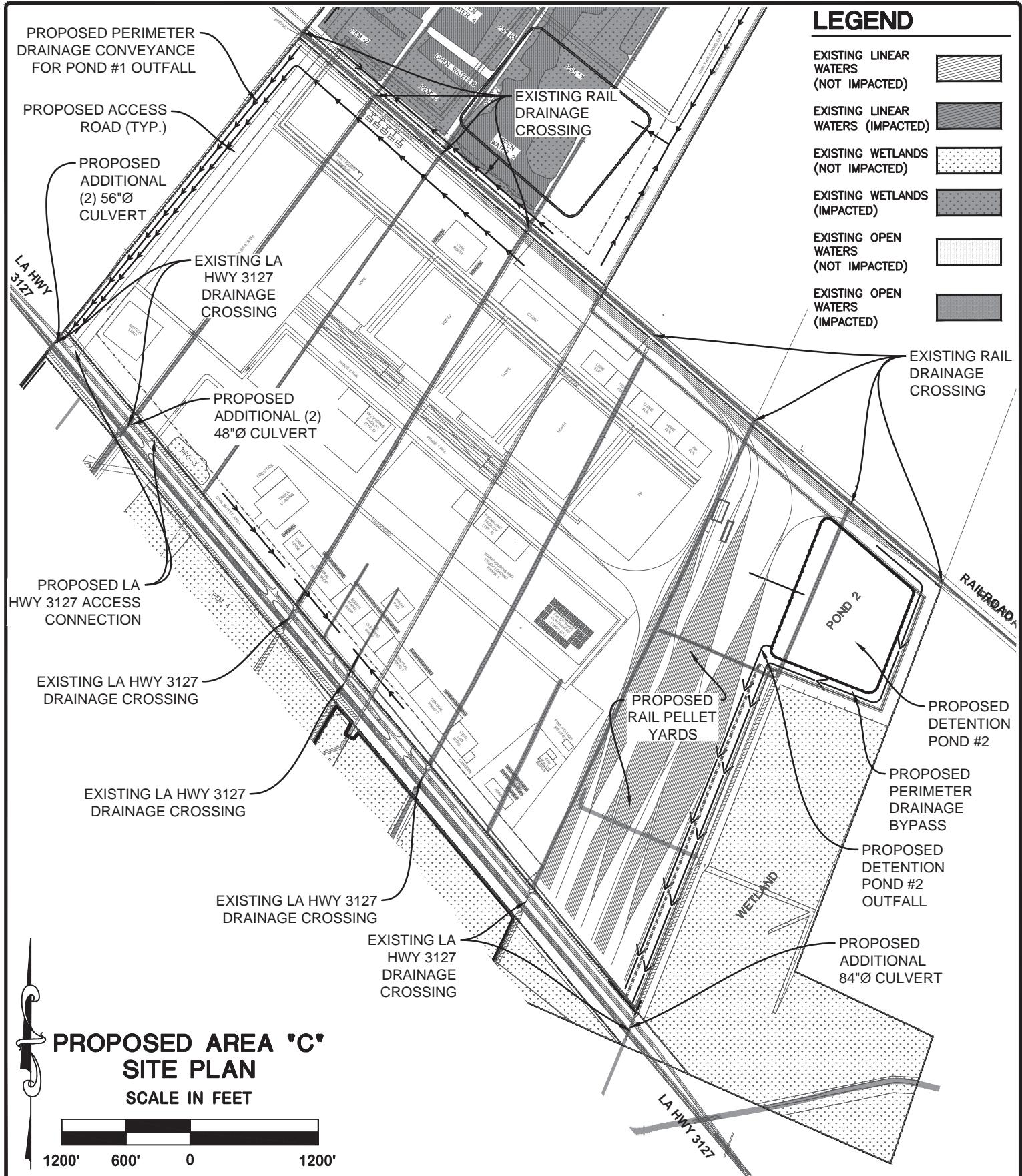
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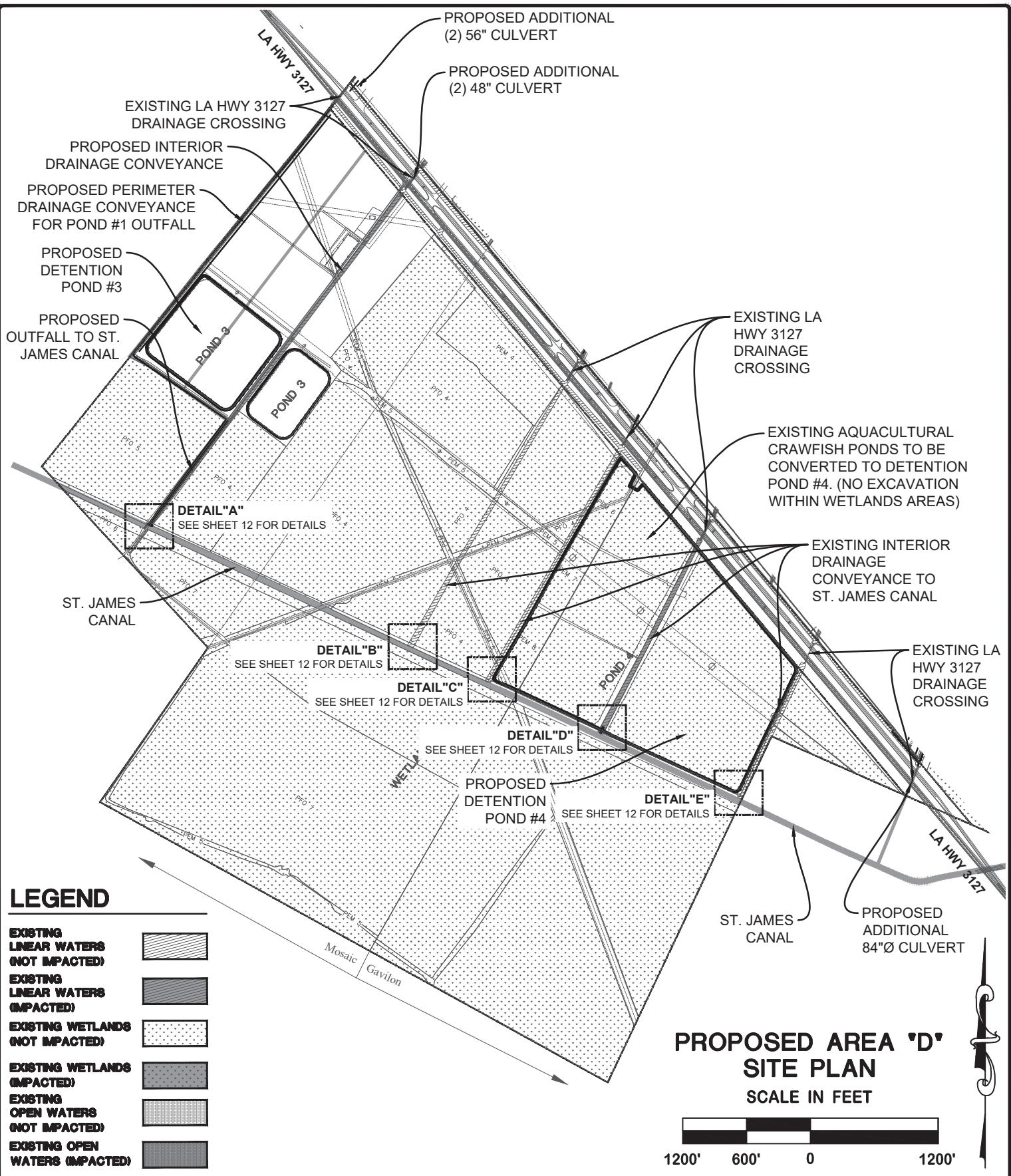
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EXISTING WETLANDS (NOT IMPACTED)	
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EXISTING OPEN WATERS (IMPACTED)	



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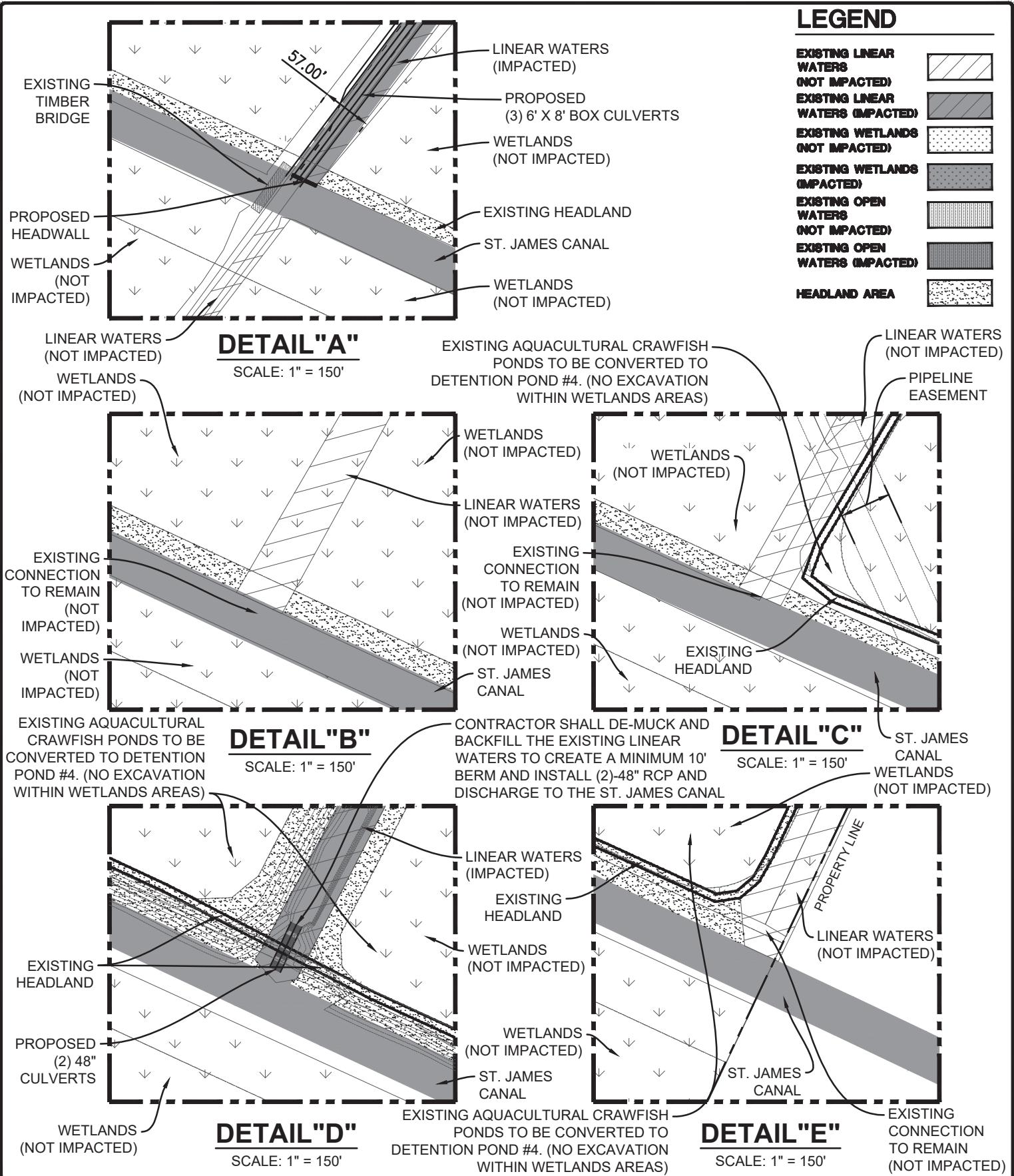
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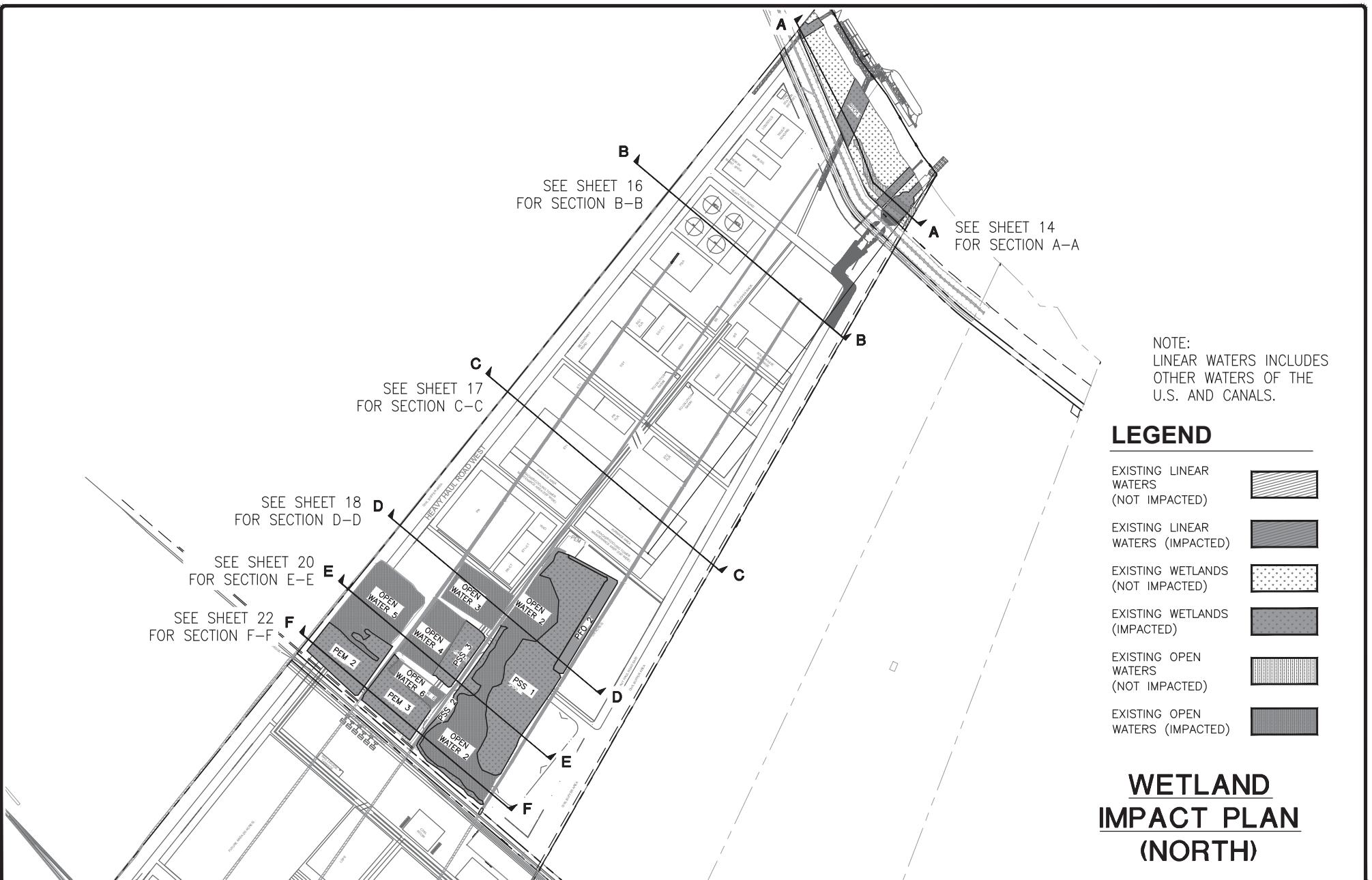


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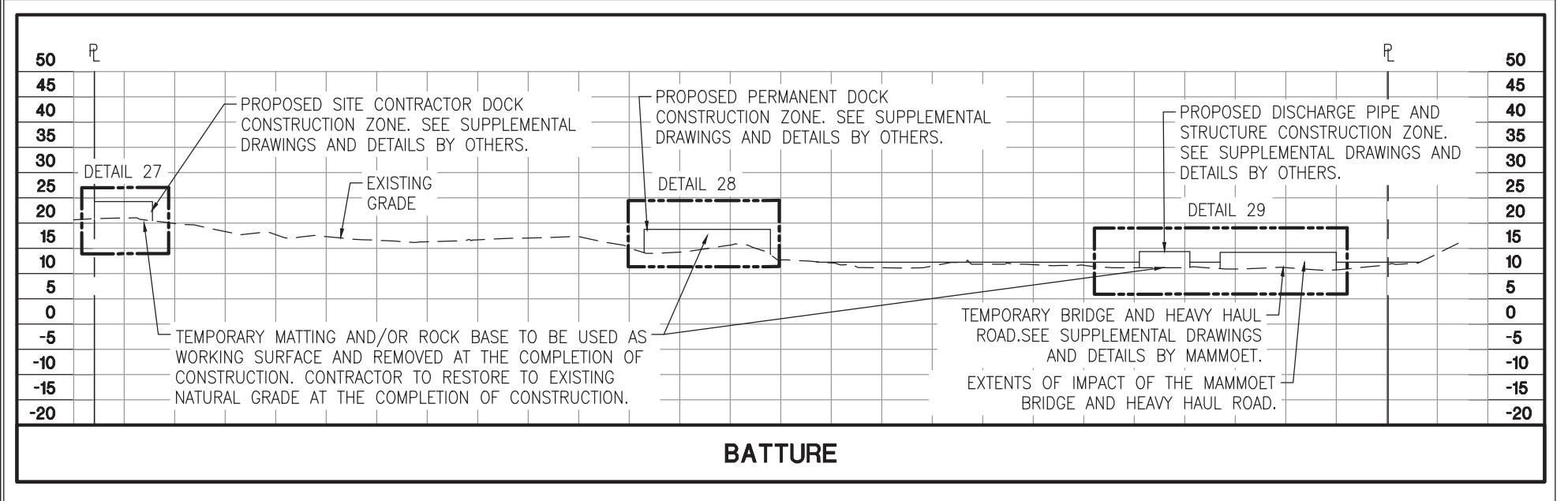
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SCALE IN FEET

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HORIZONTAL SCALE: 1" = 300'

* SEE SHEET 15 FOR CROSS SECTION DETAILS 27, 28, & 29.

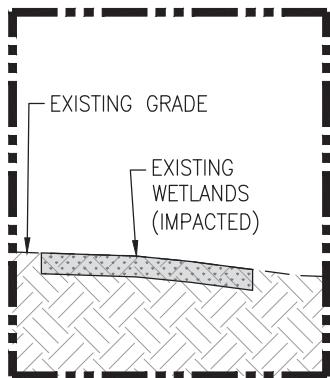
LEGEND

EXISTING LINEAR WATERS (NOT IMPACTED)		EXISTING WETLANDS (IMPACTED)	
EXISTING LINEAR WATERS (IMPACTED)		EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)		EXISTING OPEN WATERS (IMPACTED)	

WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

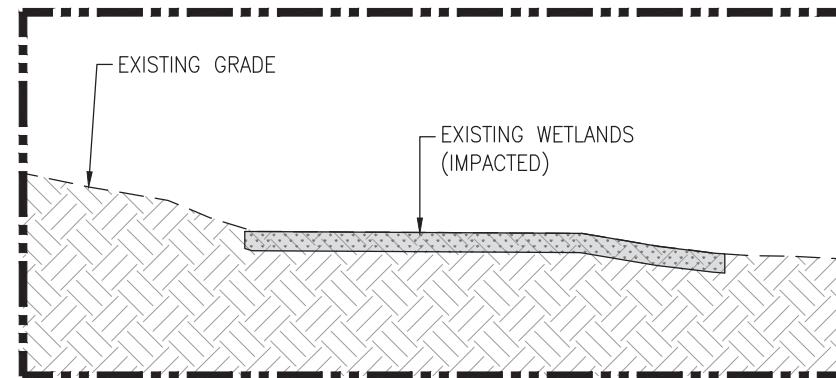
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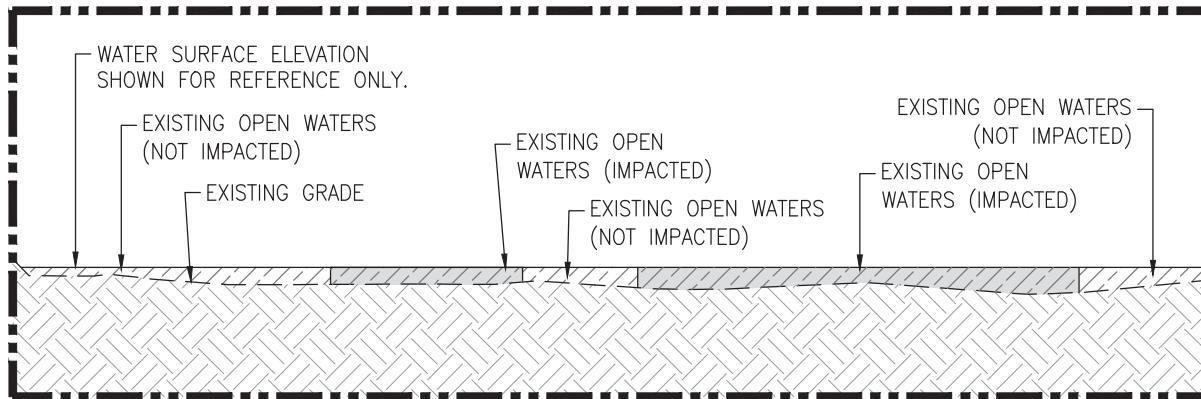
DETAIL 27

HORIZONTAL SCALE:
1" = 100'



DETAIL 28

HORIZONTAL SCALE:
1" = 100'



DETAIL 29

HORIZONTAL SCALE:
1" = 100'

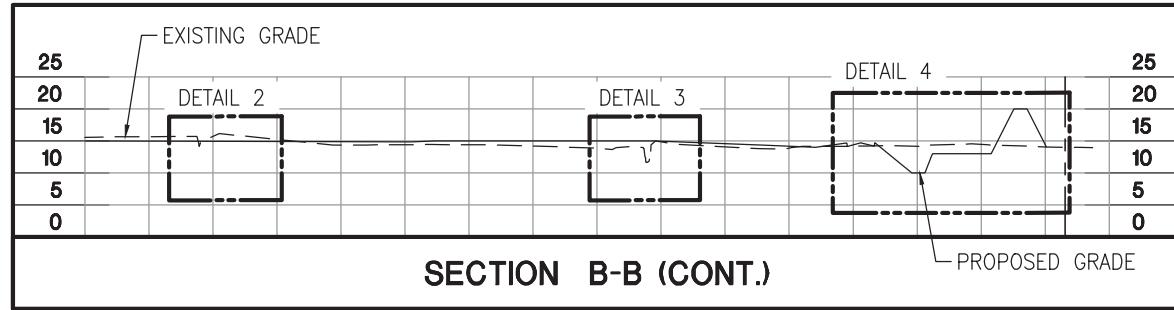
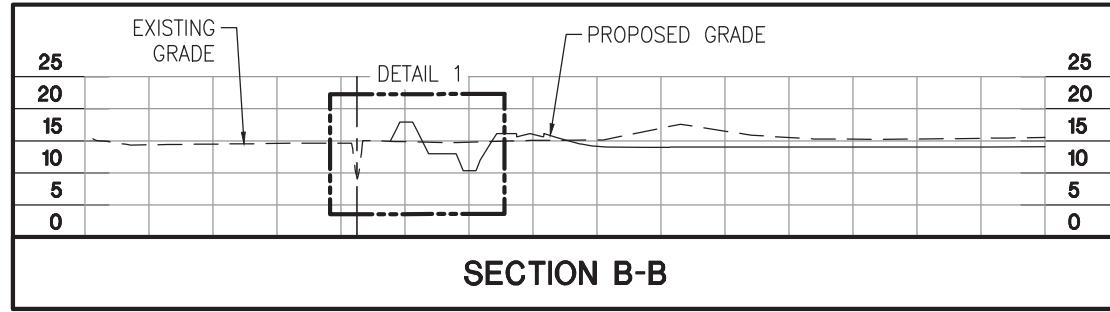
LEGEND

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EXISTING LINEAR WATERS (IMPACTED)		EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)		EXISTING OPEN WATERS (IMPACTED)	

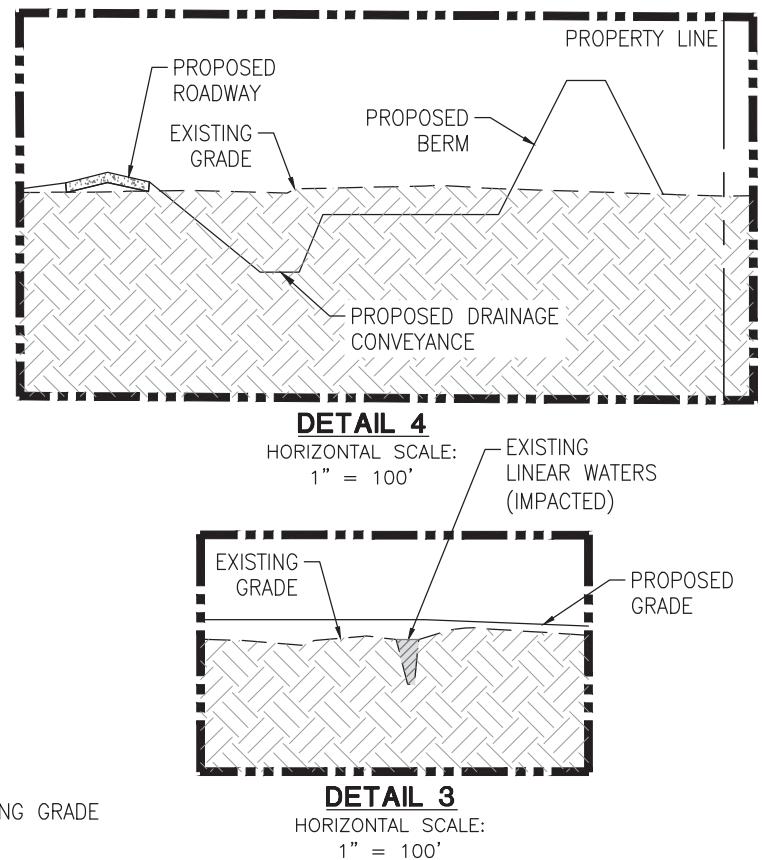
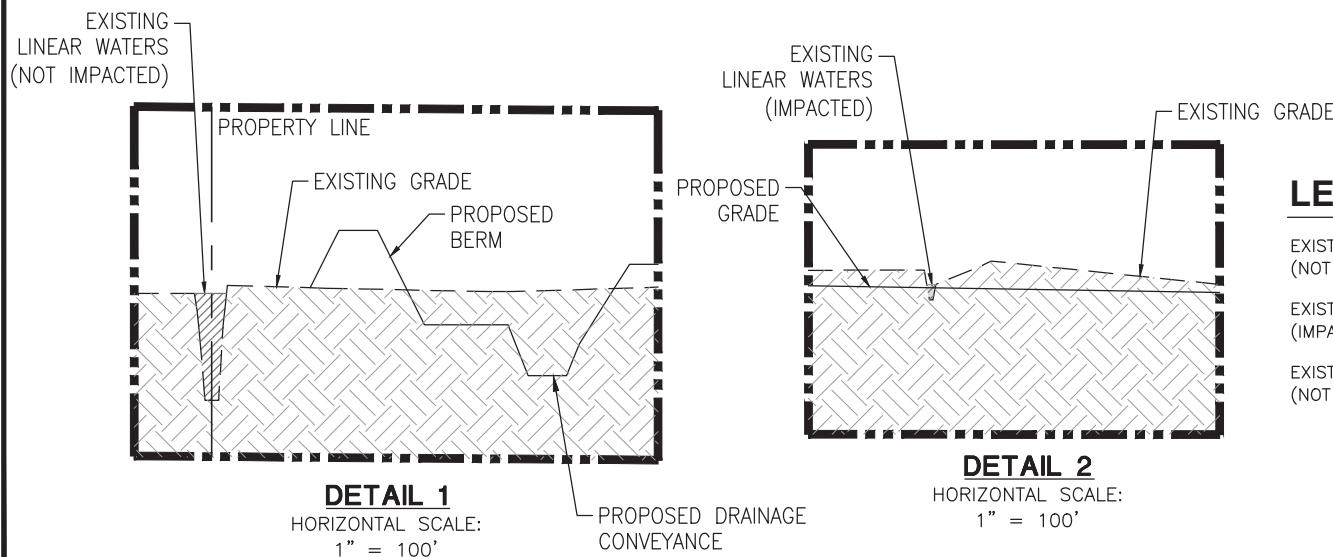
WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

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HORIZONTAL SCALE: 1" = 300'



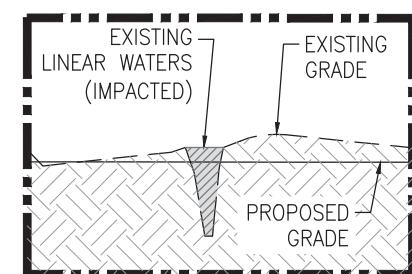
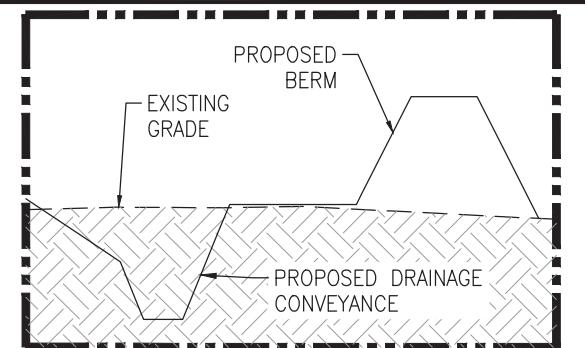
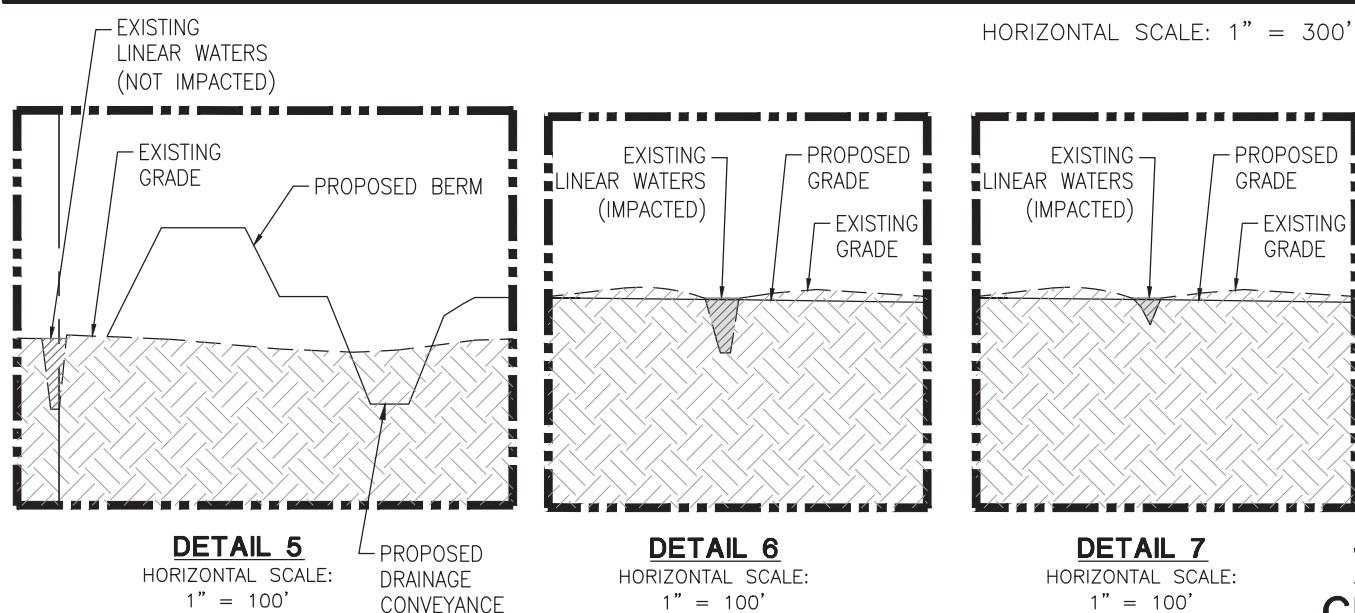
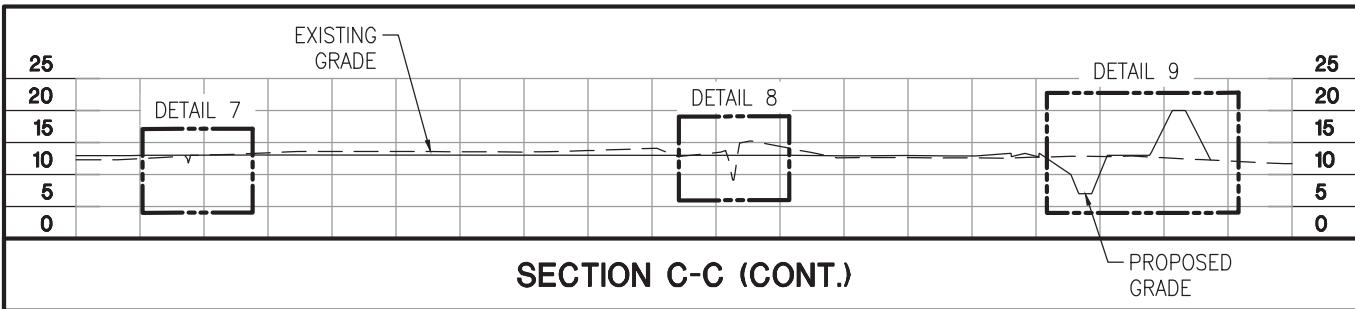
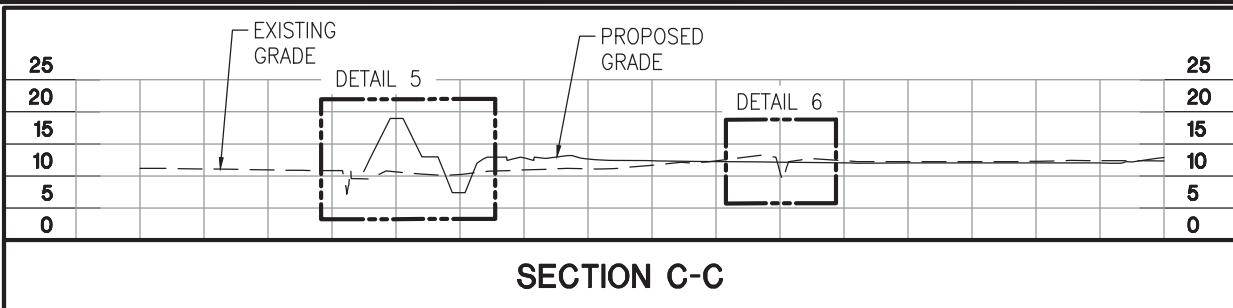
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HORIZONTAL SCALE:
1" = 100'

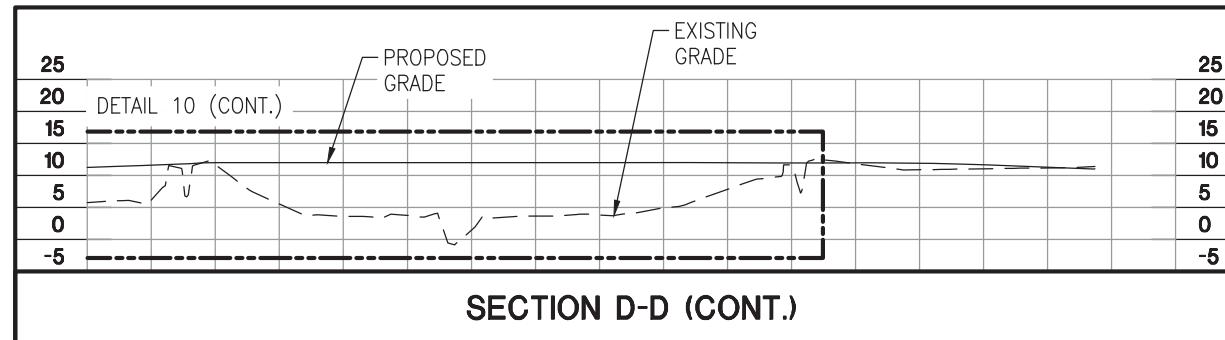
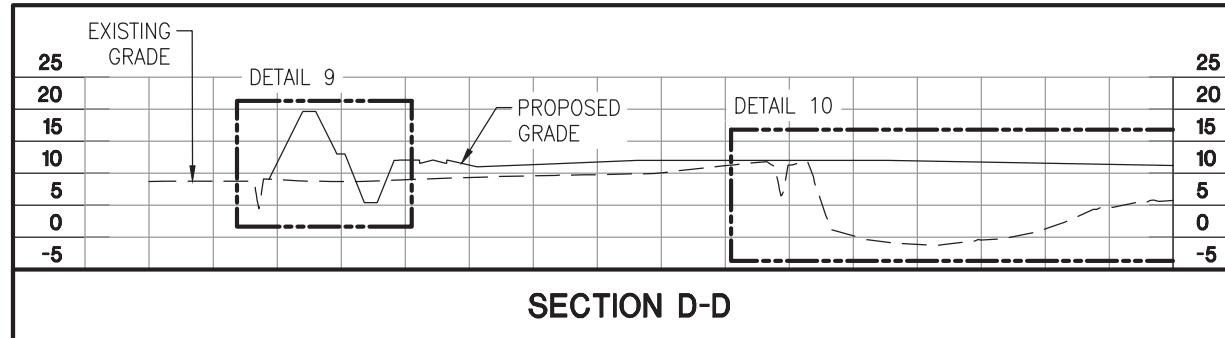
LEGEND

EXISTING LINEAR WATERS (NOT IMPACTED)	
EXISTING LINEAR WATERS (IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)	
EXISTING WETLANDS (IMPACTED)	
EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING OPEN WATERS (IMPACTED)	

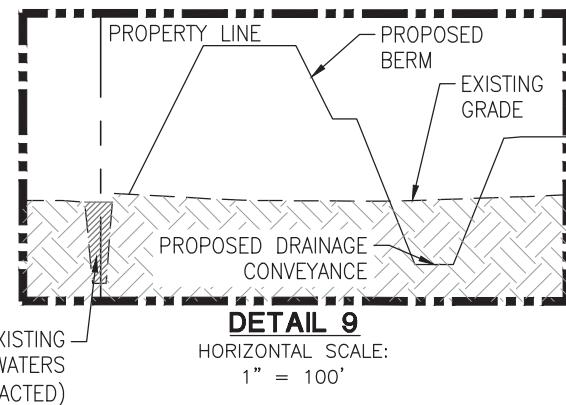
WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC



HORIZONTAL SCALE: 1" = 300'

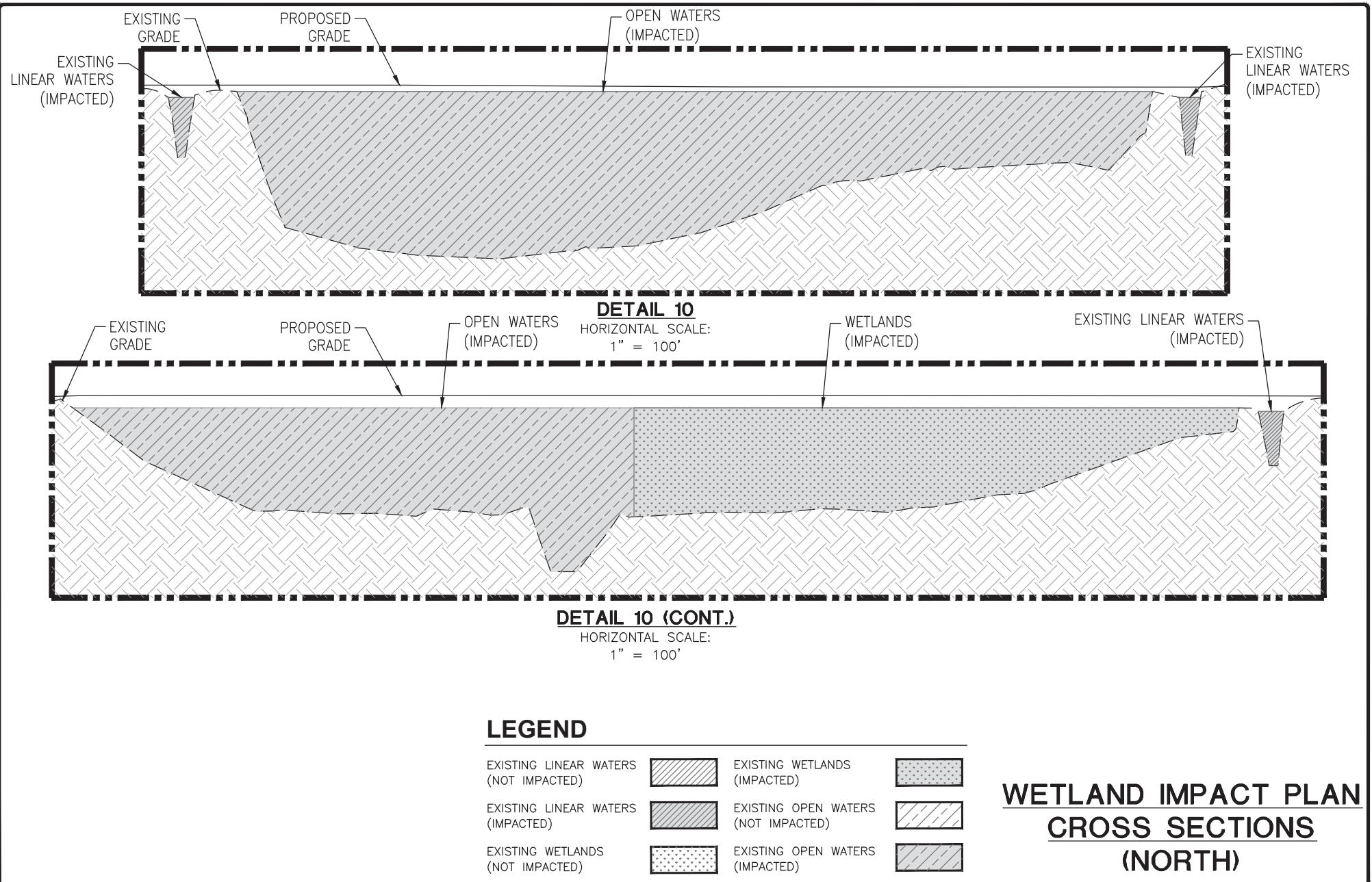


* SEE SHEET 19 FOR CROSS SECTION DETAIL 10

WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

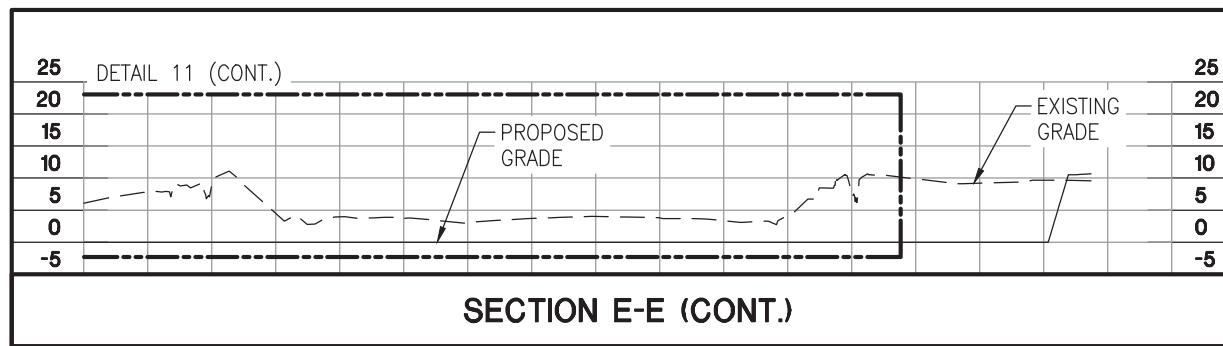
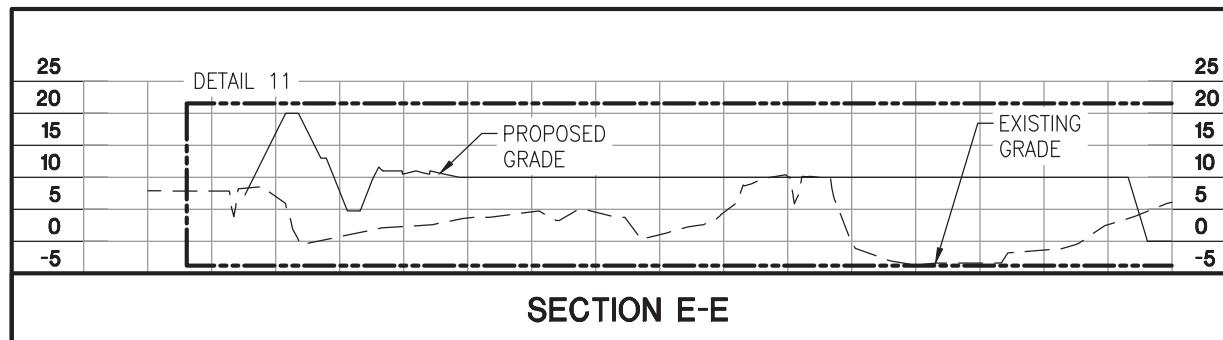
DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**



DRAWN MTB
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ISSUE DATE 11-01-17
PROJECT NO. 17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**



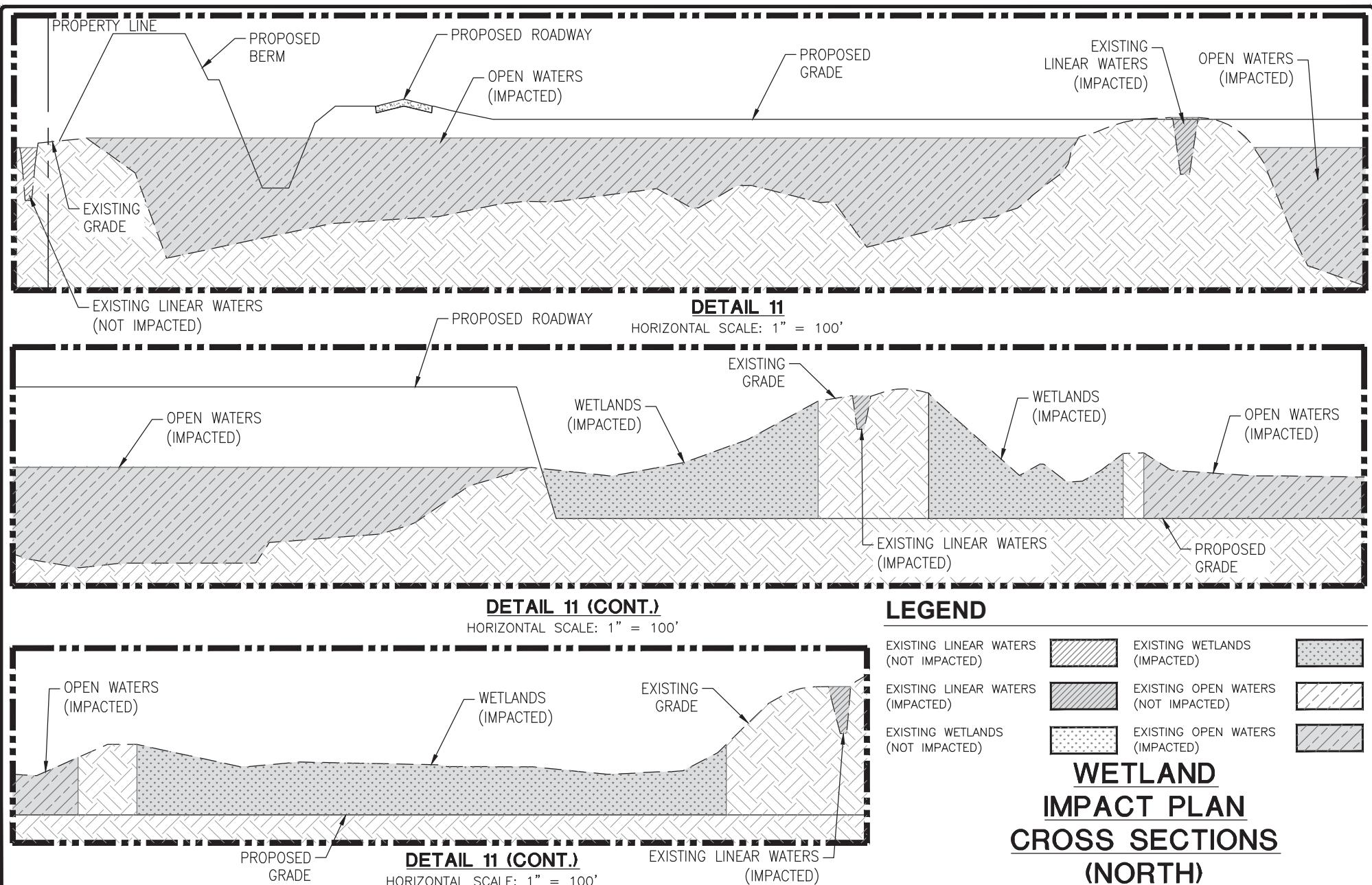
HORIZONTAL SCALE: 1" = 300'

* SEE SHEET 21 FOR CROSS
SECTION DETAIL 11

WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

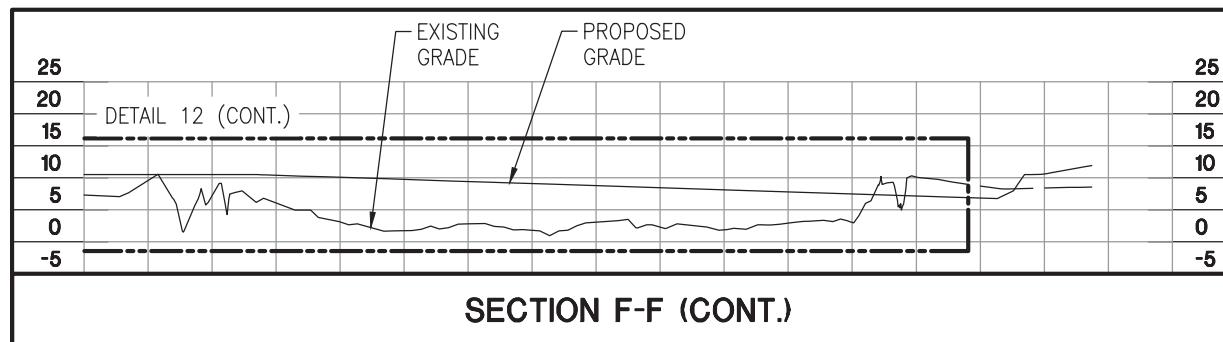
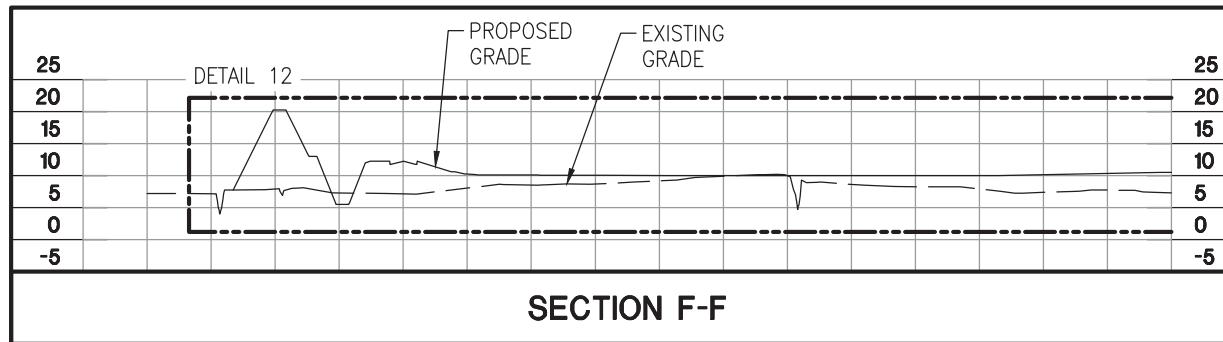
DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC



DRAWN
MTB
CHECKED
KTL
ISSUE DATE
11-01-17
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17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**



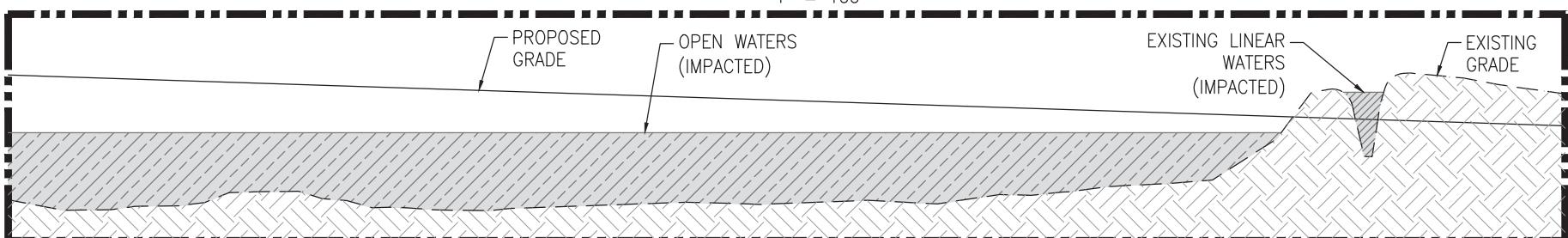
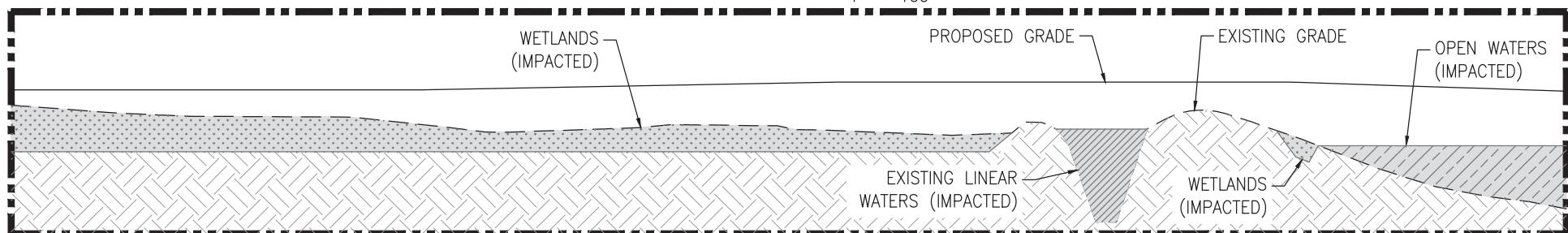
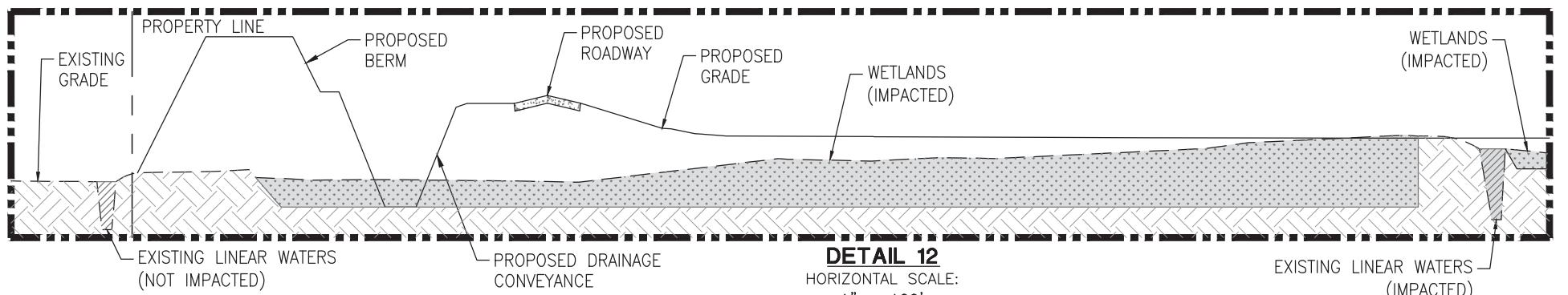
HORIZONTAL SCALE: 1" = 300'

* SEE SHEET 23 FOR CROSS
SECTION DETAIL 12

WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**



LEGEND

EXISTING LINEAR WATERS (NOT IMPACTED)		EXISTING WETLANDS (IMPACTED)	
EXISTING LINEAR WATERS (IMPACTED)		EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)		EXISTING OPEN WATERS (IMPACTED)	

WETLAND IMPACT PLAN CROSS SECTIONS (NORTH)

DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**

SEE SHEET 29
FOR SECTION L-L

SEE SHEET 25 G
FOR SECTION G-G

SEE SHEET 26
FOR SECTION H-H

H

G

H

J SEE SHEET 27
FOR SECTION J-J

K SEE SHEET 28
FOR SECTION K-K

K

LA STATE HIGHWAY (312)

Mosaic
Gravel

WETLAND

NOTE:
LINEAR WATERS INCLUDES
OTHER WATERS OF THE
U.S. AND CANALS.

LEGEND

EXISTING LINEAR
WATERS
(NOT IMPACTED)



EXISTING LINEAR
WATERS (IMPACTED)



EXISTING WETLANDS
(NOT IMPACTED)



EXISTING WETLANDS
(IMPACTED)



EXISTING OPEN
WATERS
(NOT IMPACTED)



EXISTING OPEN
WATERS (IMPACTED)



WETLAND IMPACT PLAN (SOUTH)

DRAWN
MTB

CHECKED
KTL

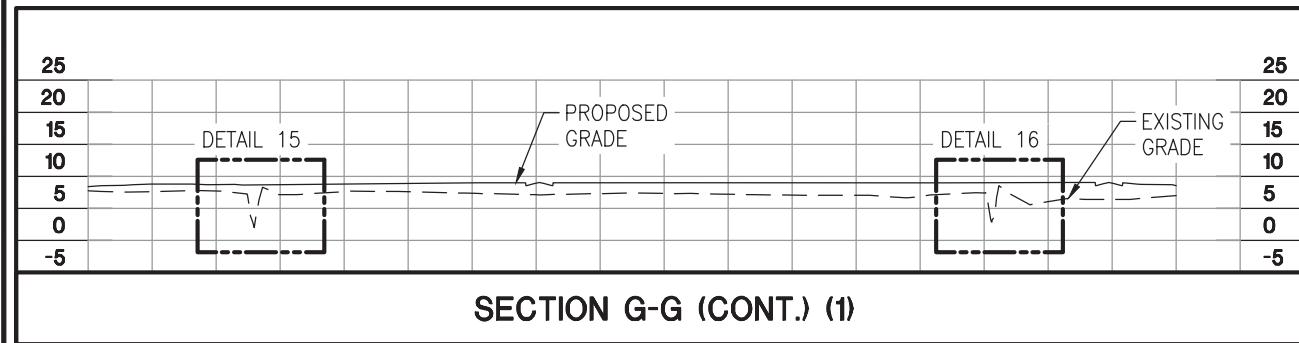
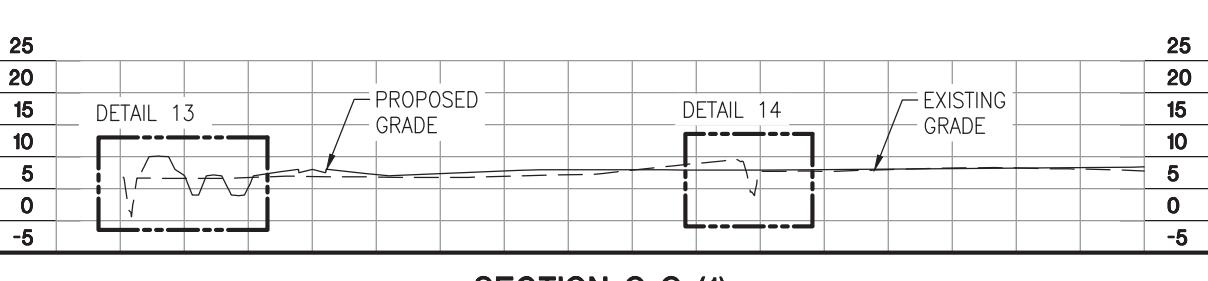
ISSUE DATE
11-01-17

PROJECT NO.
17-370

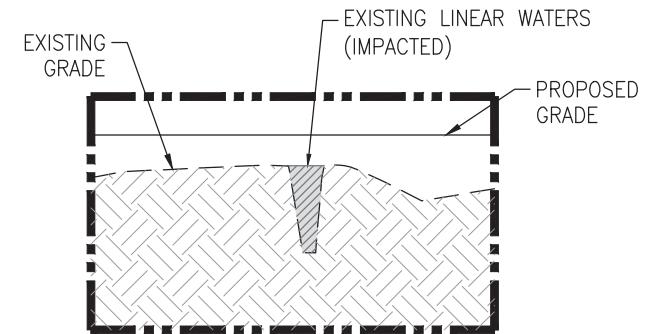
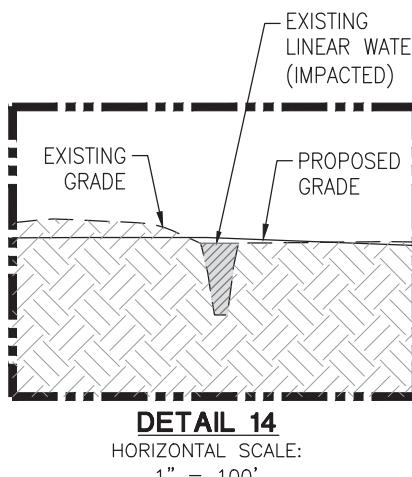
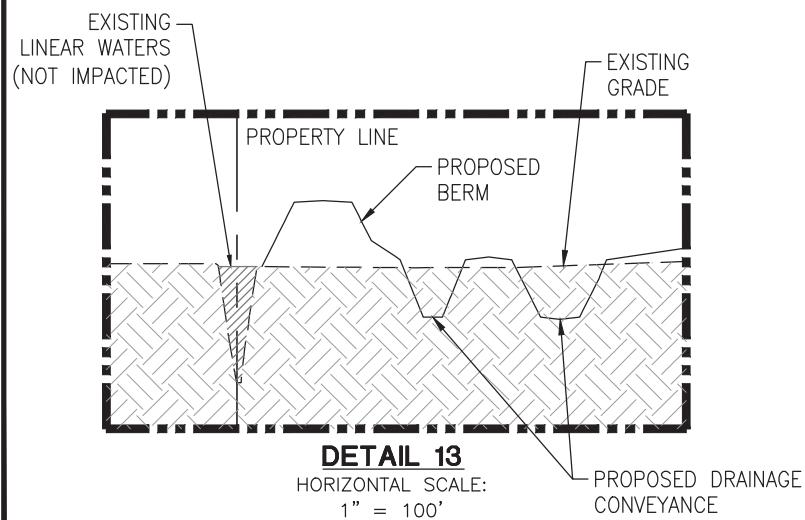
SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC

SCALE IN FEET

2000 1000 0 2000



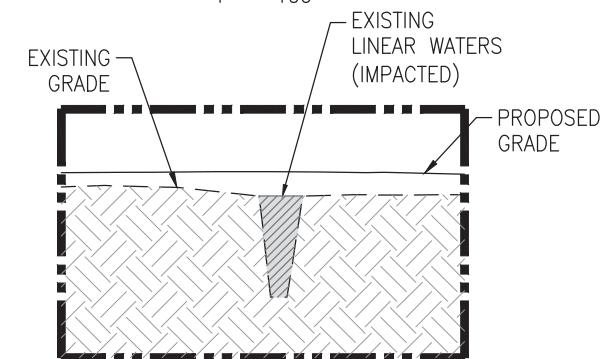
HORIZONTAL SCALE: 1" = 300'



DETAIL 16

HORIZONTAL SCALE:

1" = 100'



DETAIL 15

HORIZONTAL SCALE:

1" = 100'

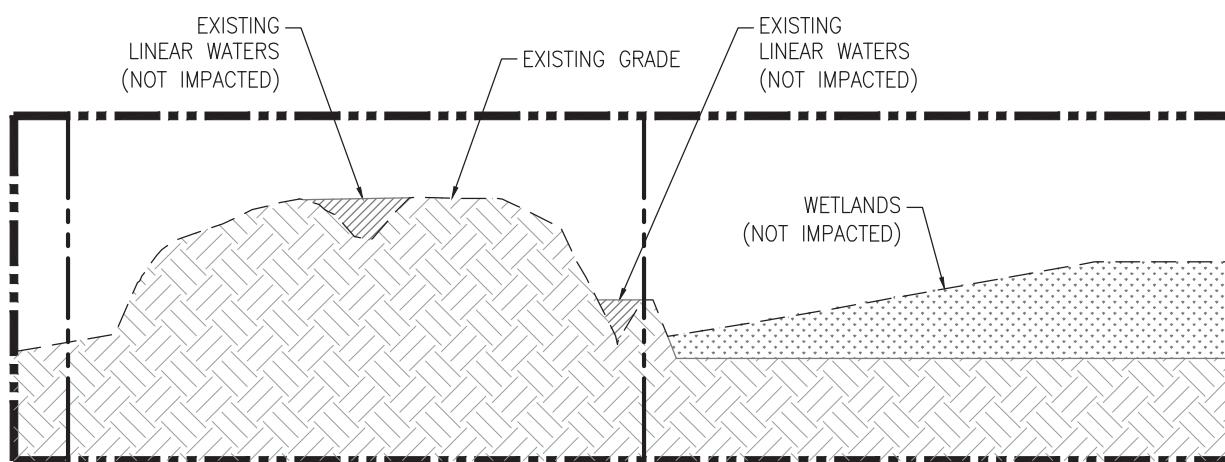
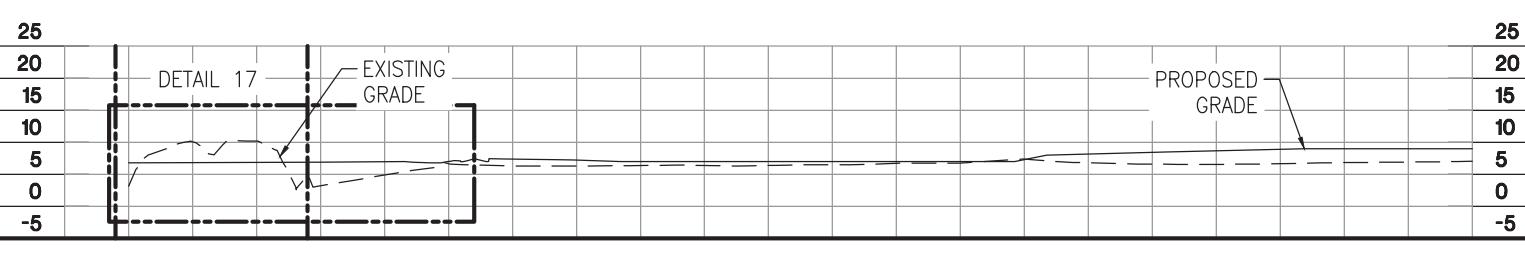
LEGEND

EXISTING LINEAR WATERS (NOT IMPACTED)		EXISTING WETLANDS (IMPACTED)	
EXISTING LINEAR WATERS (IMPACTED)		EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)		EXISTING OPEN WATERS (IMPACTED)	

WETLAND IMPACT PLAN CROSS SECTIONS (SOUTH)

DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC



DETAIL 17
HORIZONTAL SCALE:
1" = 100'

WETLAND IMPACT PLAN
CROSS SECTIONS
(SOUTH)

DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**

25
20
15
10
5
0
-5

DETAIL 18

PROPOSED GRADE

EXISTING GRADE

DETAIL 19

25
20
15
10
5
0
-5

SECTION J-J

25
20
15
10
5
0
-5

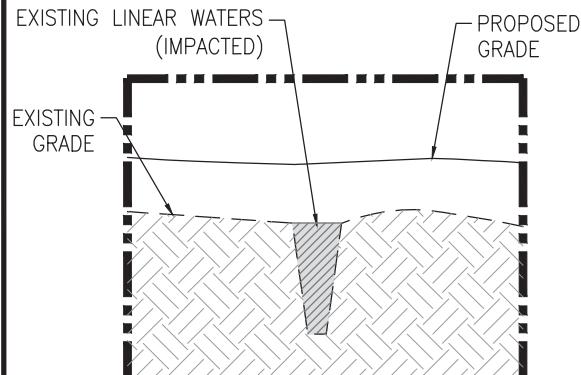
PROPOSED GRADE

DETAIL 20

EXISTING GRADE

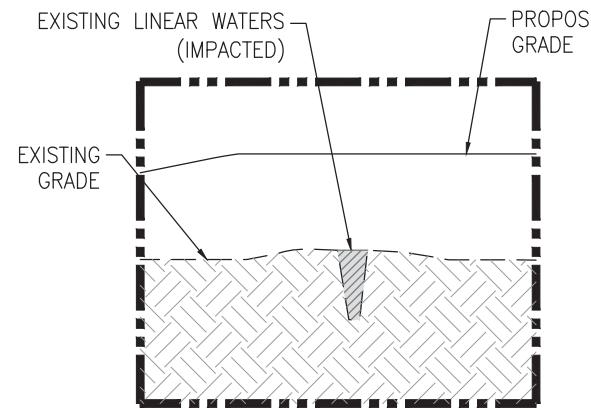
25
20
15
10
5
0
-5

SECTION J-J (CONT.)



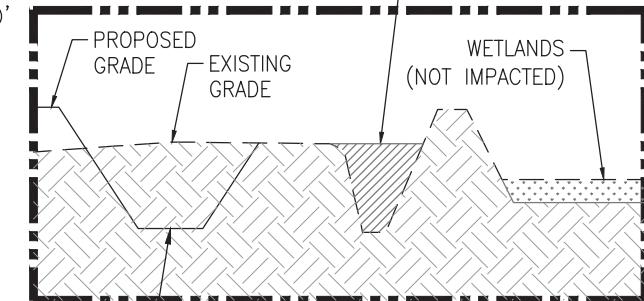
DETAIL 18

HORIZONTAL SCALE:
1" = 100'



DETAIL 19

HORIZONTAL SCALE:
1" = 100'



DETAIL 20
HORIZONTAL SCALE:
1" = 100'

WETLAND IMPACT PLAN CROSS SECTIONS (SOUTH)

DRAWN
MTB
CHECKED
KTL
ISSUE DATE
11-01-17
PROJECT NO.
17-370

SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC

LEGEND

EXISTING LINEAR
WATERS
(NOT IMPACTED)



EXISTING LINEAR
WATERS (IMPACTED)



EXISTING WETLANDS
(NOT IMPACTED)



EXISTING WETLANDS
(IMPACTED)



EXISTING OPEN
WATERS
(NOT IMPACTED)



EXISTING OPEN
WATERS (IMPACTED)



EXISTING
LINEAR WATERS
(NOT IMPACTED)



PROPOSED
GRADE



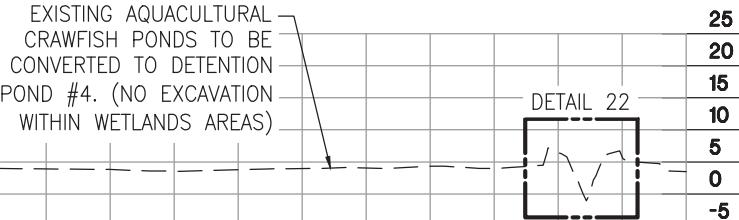
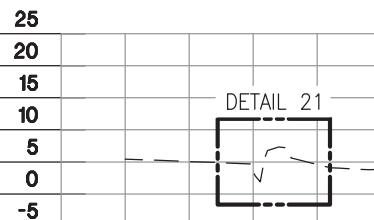
EXISTING
GRADE

WETLANDS
(NOT IMPACTED)

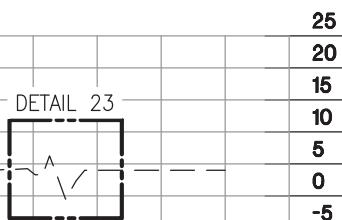
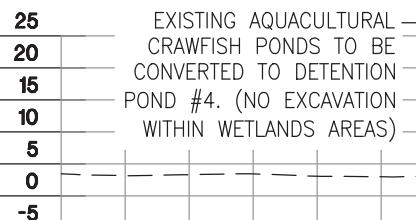


DETAIL 20

HORIZONTAL SCALE:
1" = 100'

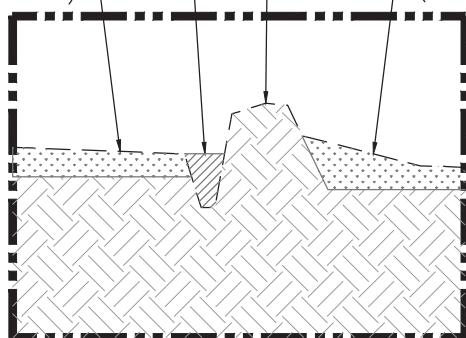


SECTION K-K (1)



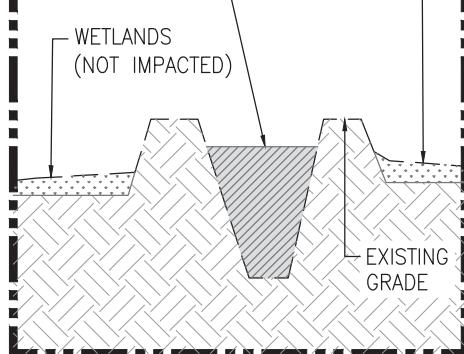
SECTION K-K (CONT.) (1)

EXISTING LINEAR WATERS
(NOT IMPACTED)
WETLANDS
(NOT IMPACTED)
EXISTING GRADE
WETLANDS
(NOT IMPACTED)

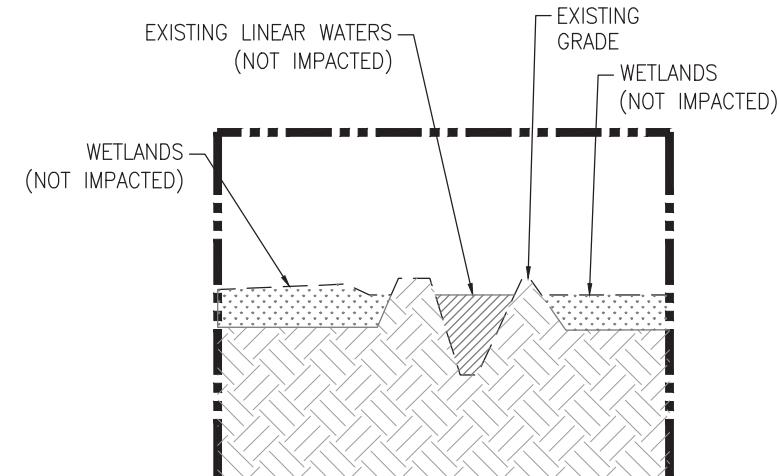


DETAIL 21
HORIZONTAL SCALE:
1" = 100'

HORIZONTAL SCALE: 1" = 300'
EXISTING LINEAR WATERS
(IMPACTED)
WETLANDS
(NOT IMPACTED)
WETLANDS
(IMPACTED)
EXISTING GRADE



DETAIL 22
HORIZONTAL SCALE:
1" = 100'



DETAIL 23
HORIZONTAL SCALE:
1" = 100'

LEGEND

EXISTING LINEAR WATERS (NOT IMPACTED)		EXISTING WETLANDS (IMPACTED)	
EXISTING LINEAR WATERS (IMPACTED)		EXISTING OPEN WATERS (NOT IMPACTED)	
EXISTING WETLANDS (NOT IMPACTED)		EXISTING OPEN WATERS (IMPACTED)	

WETLAND IMPACT PLAN CROSS SECTIONS (SOUTH)

DRAWN MTB
CHECKED KTL
ISSUE DATE 11-01-17
PROJECT NO. 17-370

SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC

25

20

15

10

5

0

-5

DETAIL 24

EXISTING
GRADEPROPOSED
GRADE

DETAIL 25

DETAIL 26

25

20

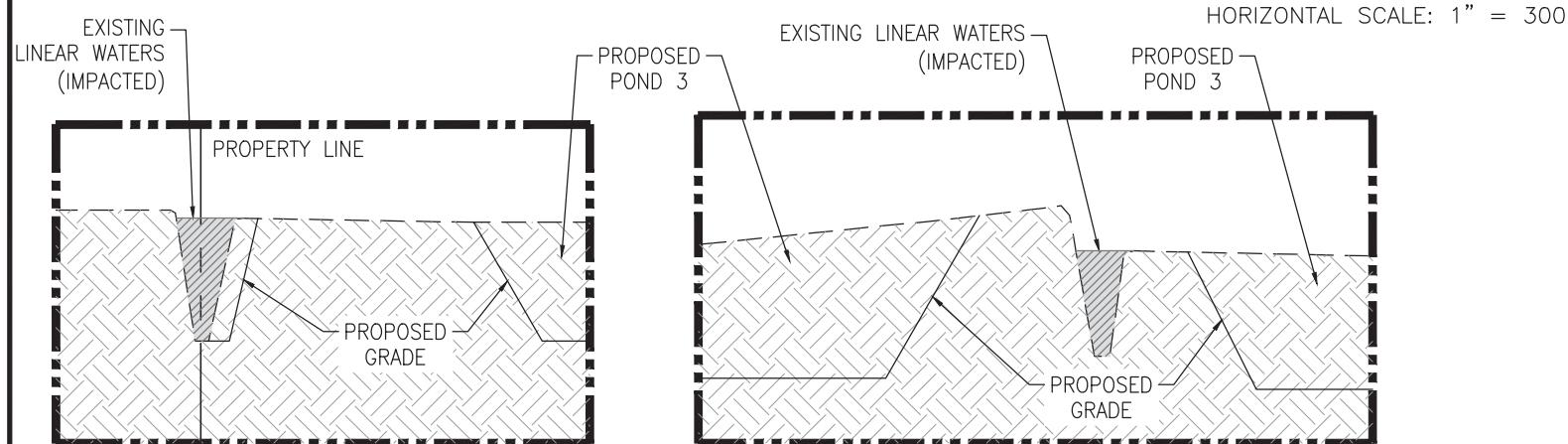
15

10

5

0

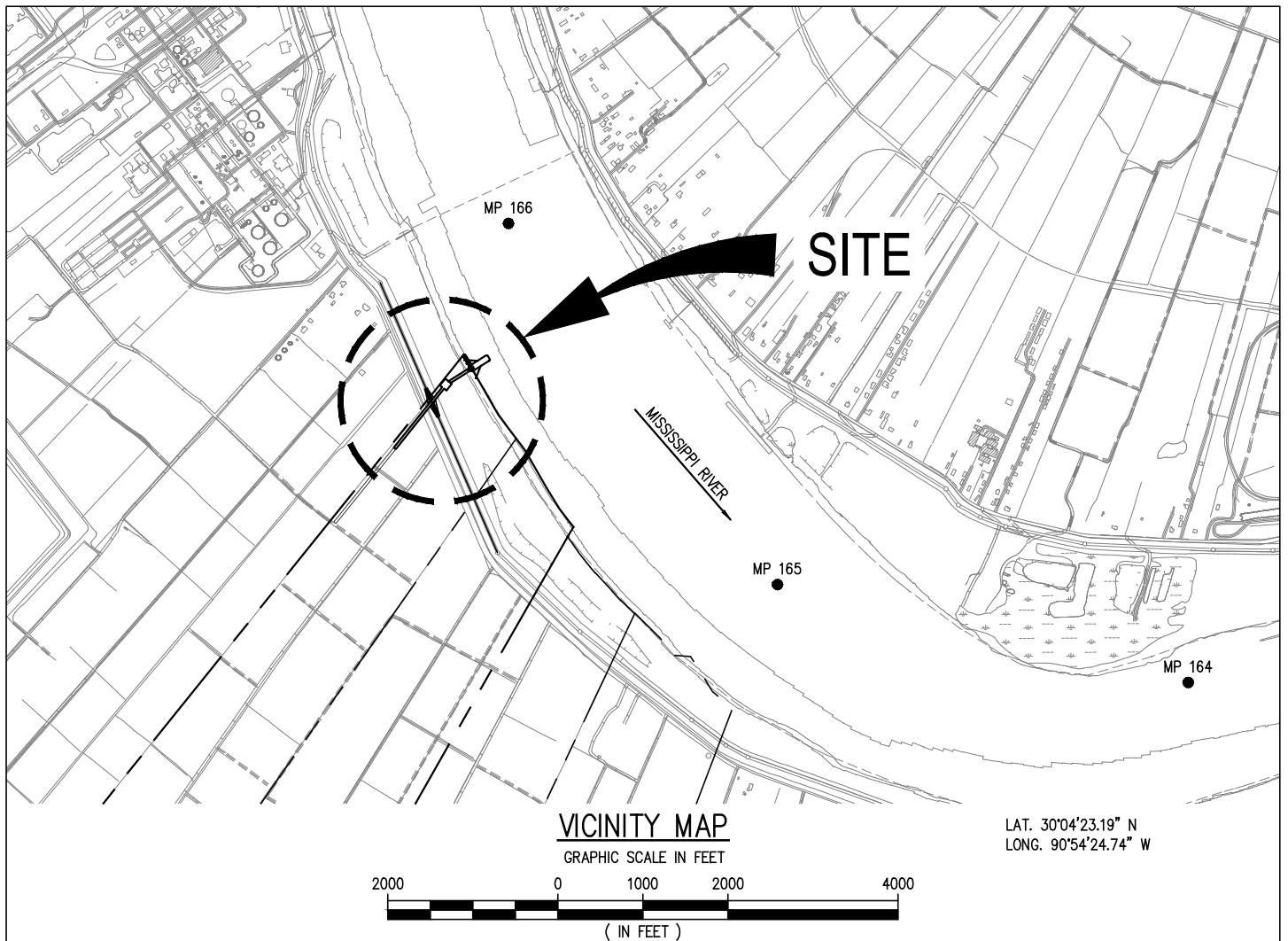
-5

SECTION L-L**DETAIL 24**HORIZONTAL SCALE:
1" = 100'**DETAIL 25**HORIZONTAL SCALE:
1" = 100'PROPOSED
POND 3**DETAIL 26**HORIZONTAL SCALE:
1" = 100'**LEGEND**EXISTING LINEAR WATERS
(NOT IMPACTED)EXISTING WETLANDS
(IMPACTED)EXISTING LINEAR WATERS
(IMPACTED)EXISTING OPEN WATERS
(NOT IMPACTED)EXISTING WETLANDS
(NOT IMPACTED)EXISTING OPEN WATERS
(IMPACTED)

WETLAND IMPACT PLAN CROSS SECTIONS (SOUTH)

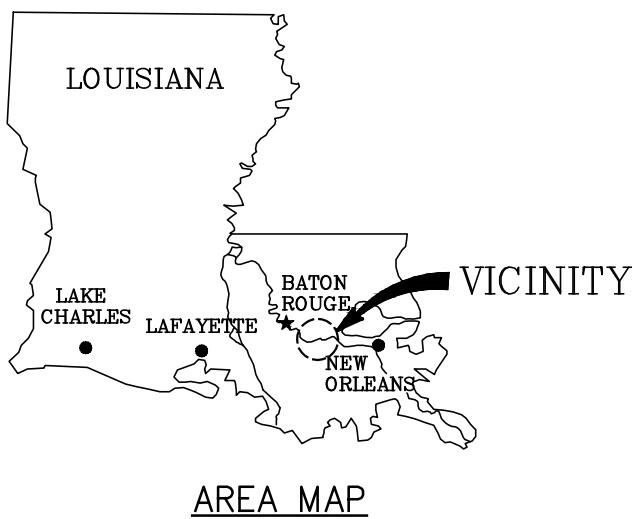
DRAWN
MTBCHECKED
KTLISSUE DATE
11-01-17PROJECT NO.
17-370

**SUNSHINE PROJECT
PROPOSED PETROCHEMICAL
COMPLEX & MARINE FACILITY
ST. JAMES PARISH, LOUISIANA
FOR FG LA LLC**



GENERAL NOTES:

1. 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.
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 OR 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 WILL 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. ALL ELEVATIONS REFER TO NAVD 88 UNLESS NOTED OTHERWISE.



CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

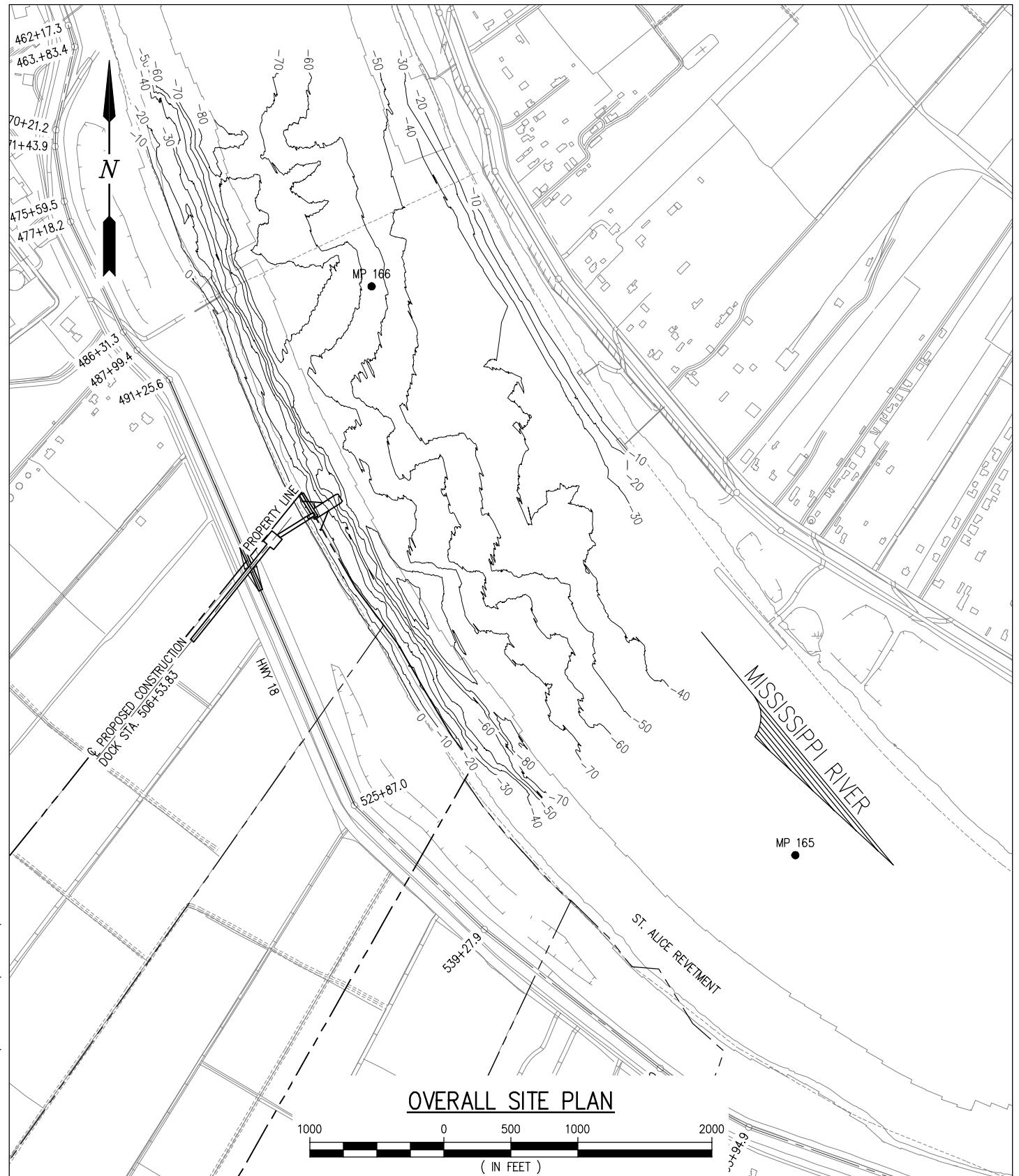
PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P1



ST. JAMES	FG LA LLC	LOUISIANA
PROPOSED NEW CONSTRUCTION DOCK COVER SHEET		
VICINITY MAP, AREA MAP & GENERAL NOTES		

DATE DEC. 2017
DESIGN CLO
DRAWN NAH
CHECK NPL
CONTRACT 10537
SHEET No.
1 OF 16



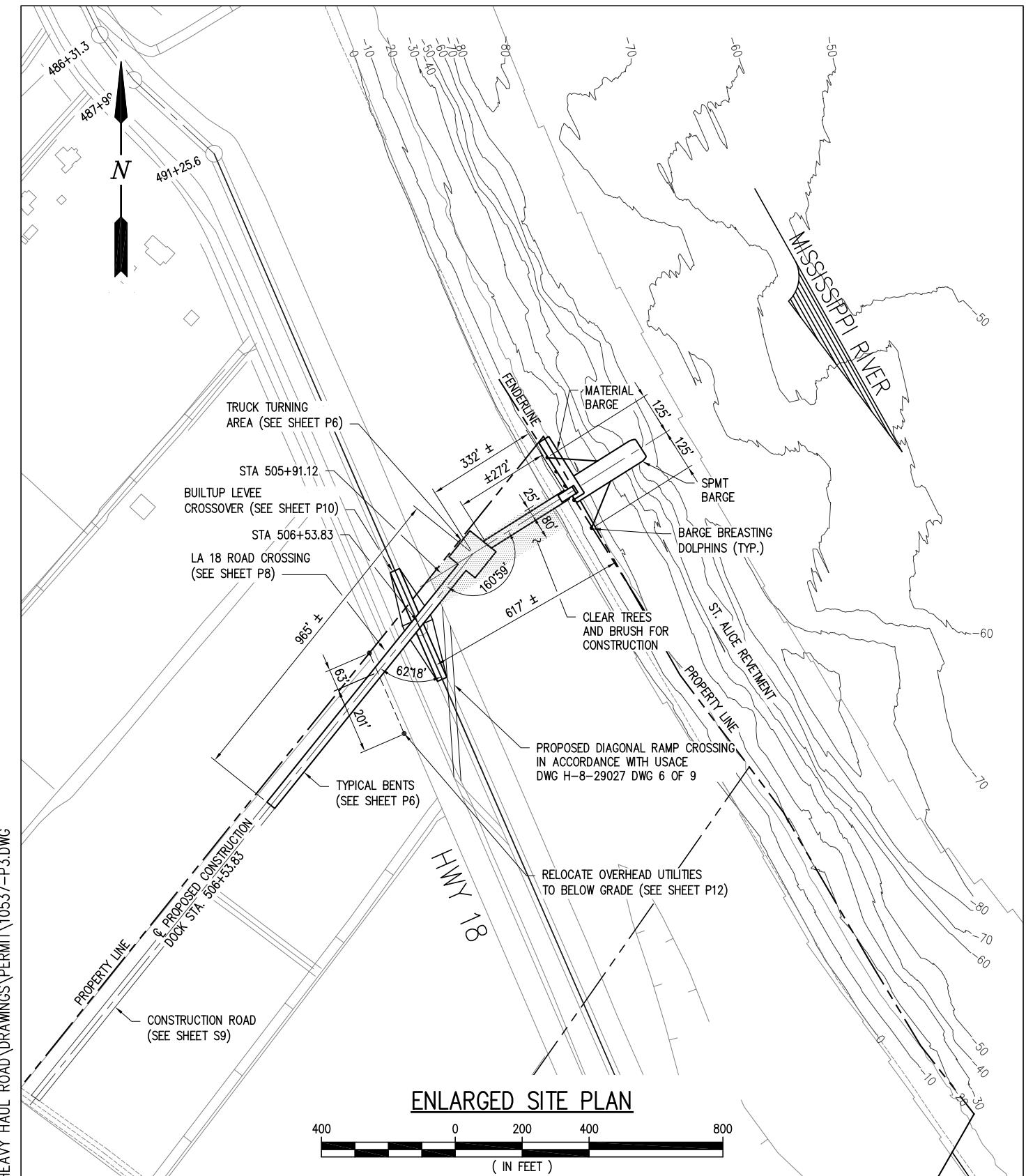
CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P2



DATE DEC. 2017
DESIGN CLO
DRAWN NAH
CHECK NPL
CONTRACT 10537
SHEET No.
2 OF 16



CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

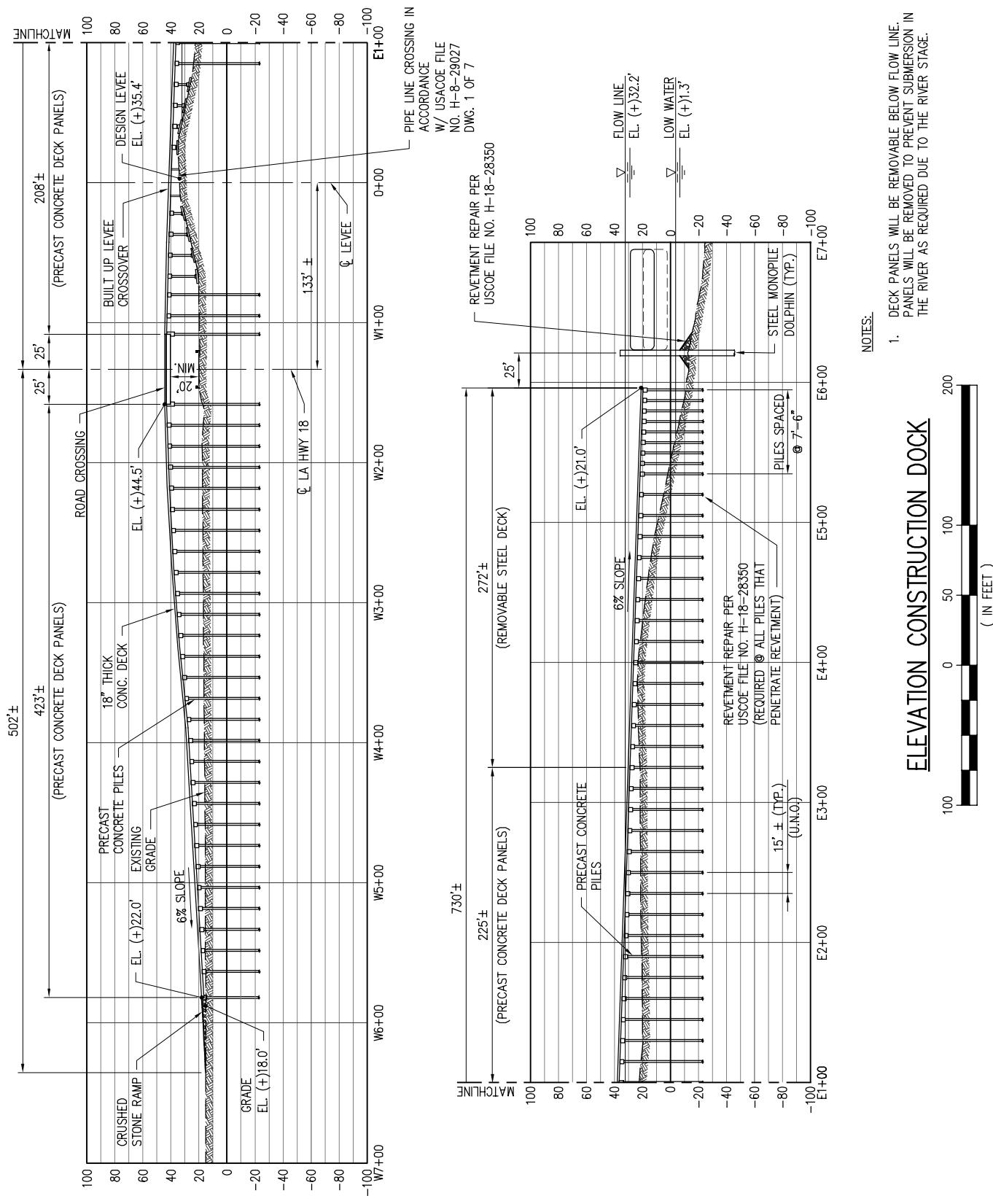
PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P3



ST. JAMES	FG LA LLC	LOUISIANA
PROPOSED NEW CONSTRUCTION DOCK SITE PLAN		
ENLARGED SITE PLAN		

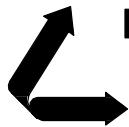
DATE DEC. 2017
DESIGN CLO
DRAWN NAH
CHECK NPL
CONTRACT 10537
SHEET No.
3 OF 16



CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

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10537-P4



LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA . BEAUMONT, TX

ST. JAMES

FG LA LLC

LOUISIANA

PROPOSED NEW CONSTRUCTION DOCK

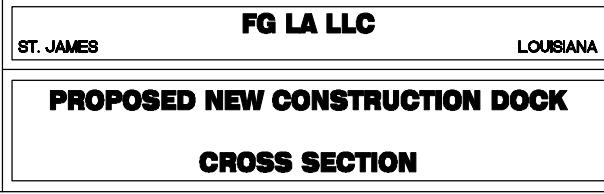
CROSS SECTION

DATE	DEC. 2017
DESIGN	CLO
DRAWN	NAH
CHECK	NPL
CONTRACT	10537
SHEET	No.

CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

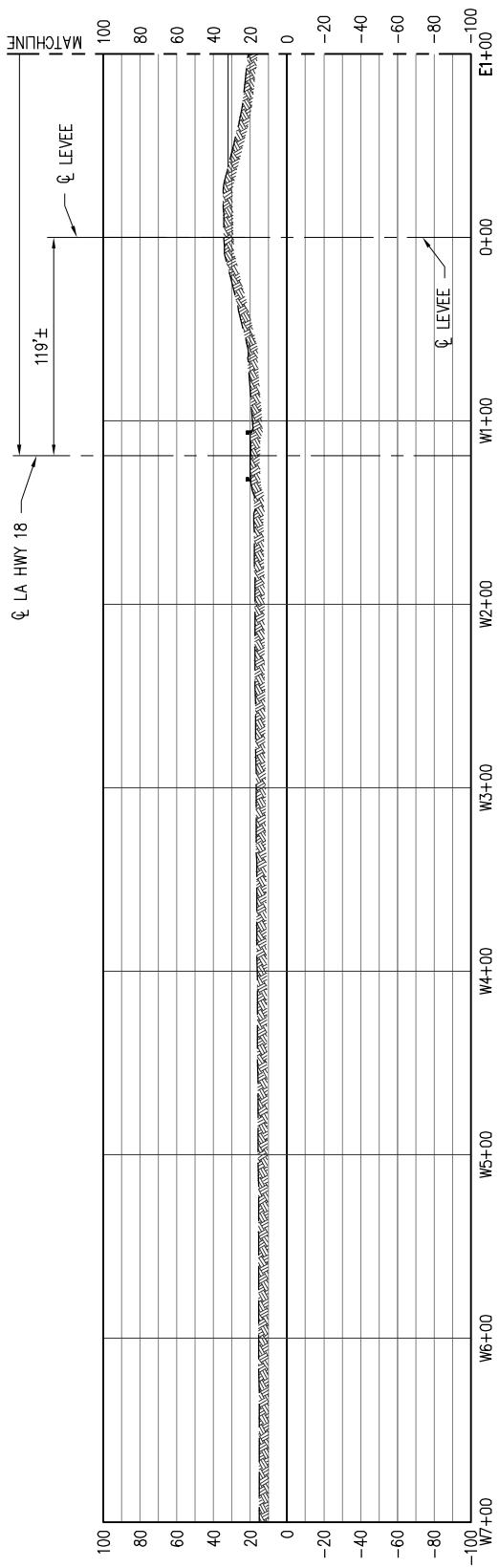
PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P5

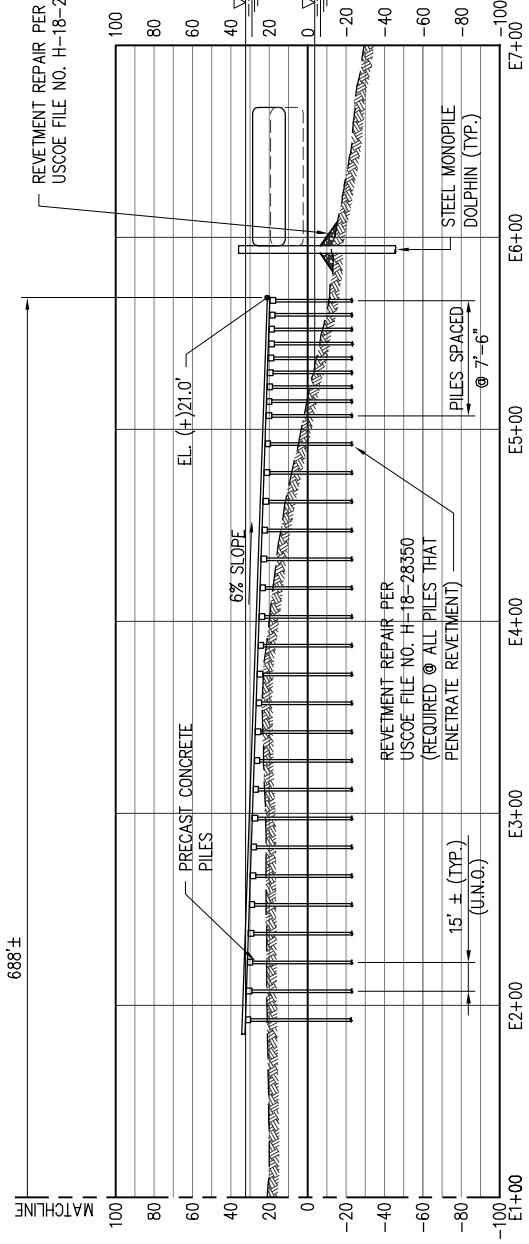


DATE	DEC. 2017
DESIGN	CLO
DRAWN	NAH
CHECK	NPL
CONTRACT	10537
SHEET No.	

5 OF 16



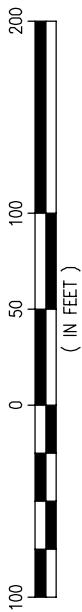
REVENEMENT REPAIR PER
USCOE FILE NO. H-18-28350

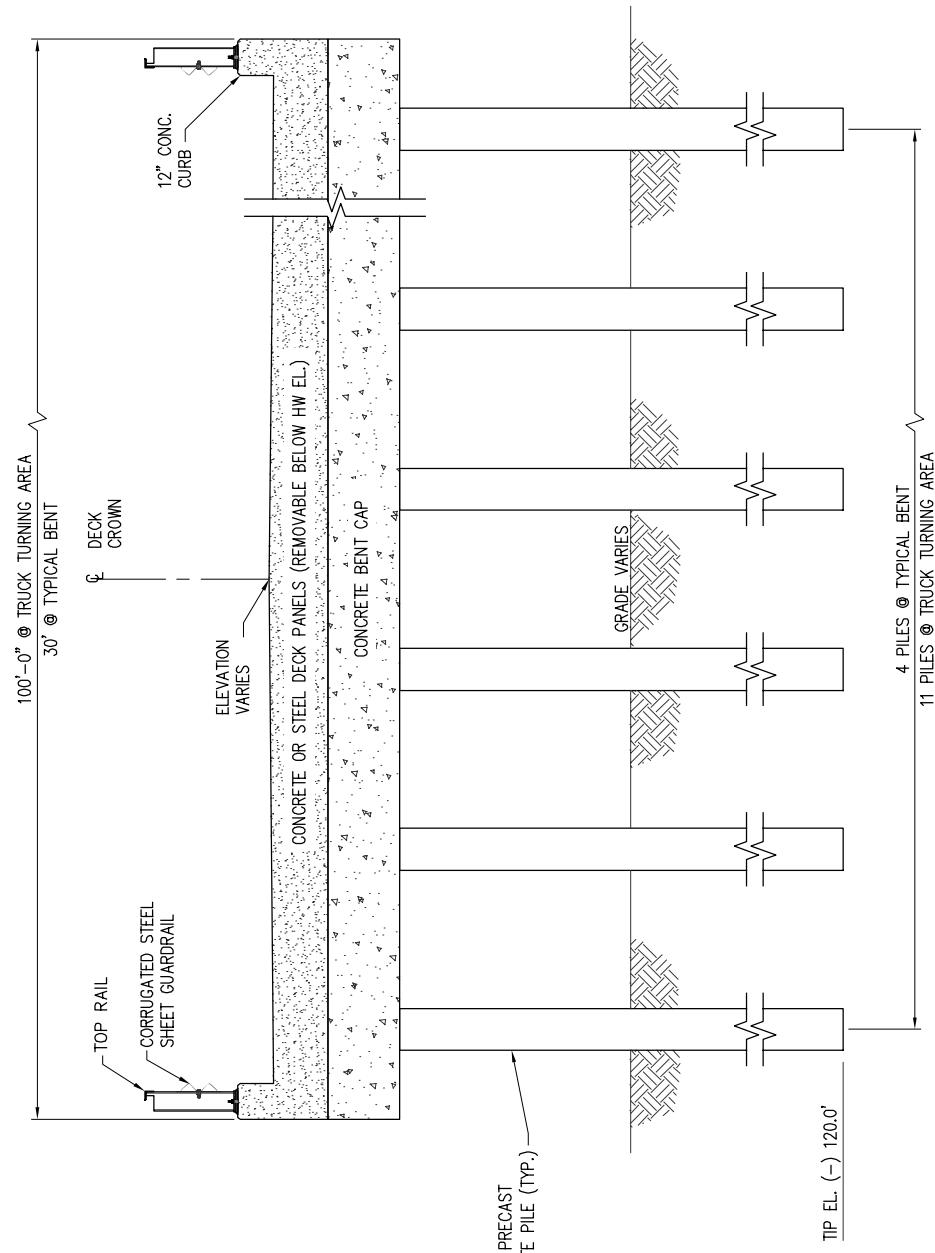


NOTES:

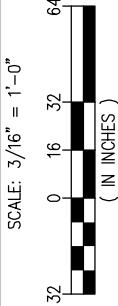
- DECK PANELS WILL BE REMOVABLE BELOW FLOW LINE.
PANELS WILL BE REMOVED TO PREVENT SUBMERSION IN
THE RIVER AS REQUIRED DUE TO THE RIVER STAGE.

CROSS SECTION STA. 505+91.12





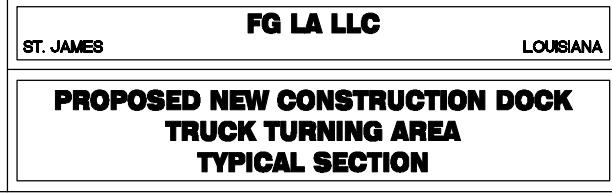
TYPICAL TRUCK TURNING AREA & TYP. BENT



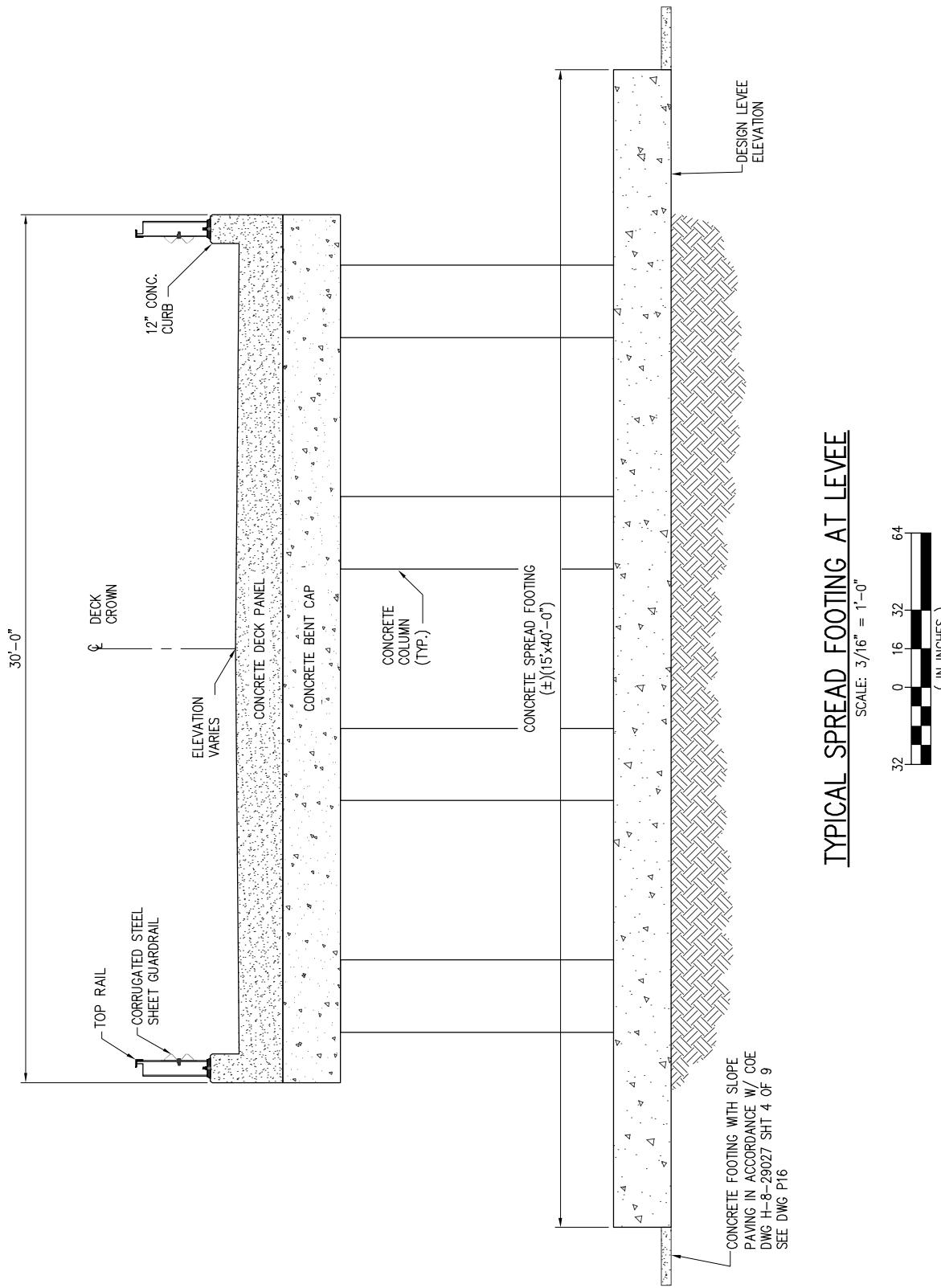
CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P6



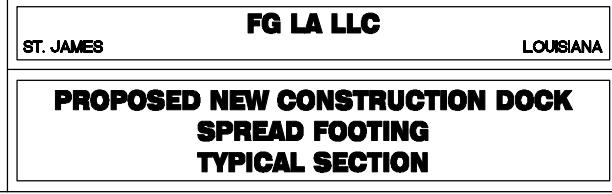
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DRAWN	NAH
CHECK	NPL
CONTRACT	10537
SHEET No.	
6	OF 16



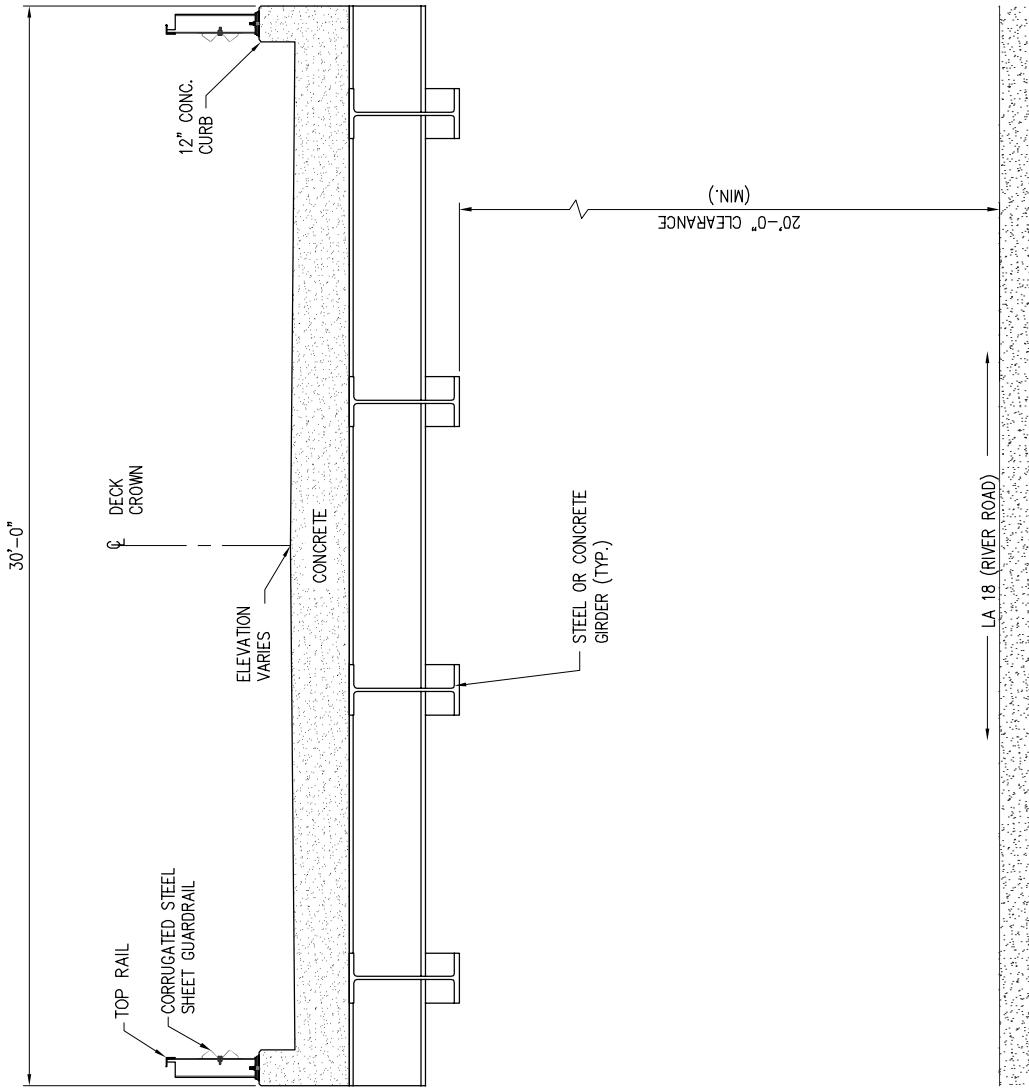
CHRISTOPHER L. O'BRIEN P.E.
LA PE #33945
LANIER & ASSOCIATES
CONSULTING ENGINEERS INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P7



DATE	DEC. 2017
DESIGN	CLO
DRAWN	NAH
CHECK	NPL
CONTRACT	10537
SHEET No.	
7	OF 16



LA 18 TYPICAL ROAD CROSSING SECTION

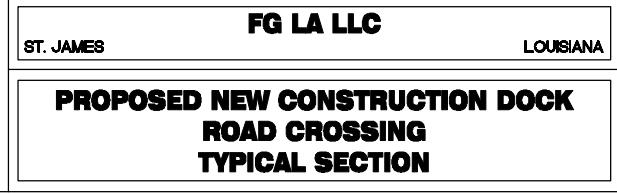
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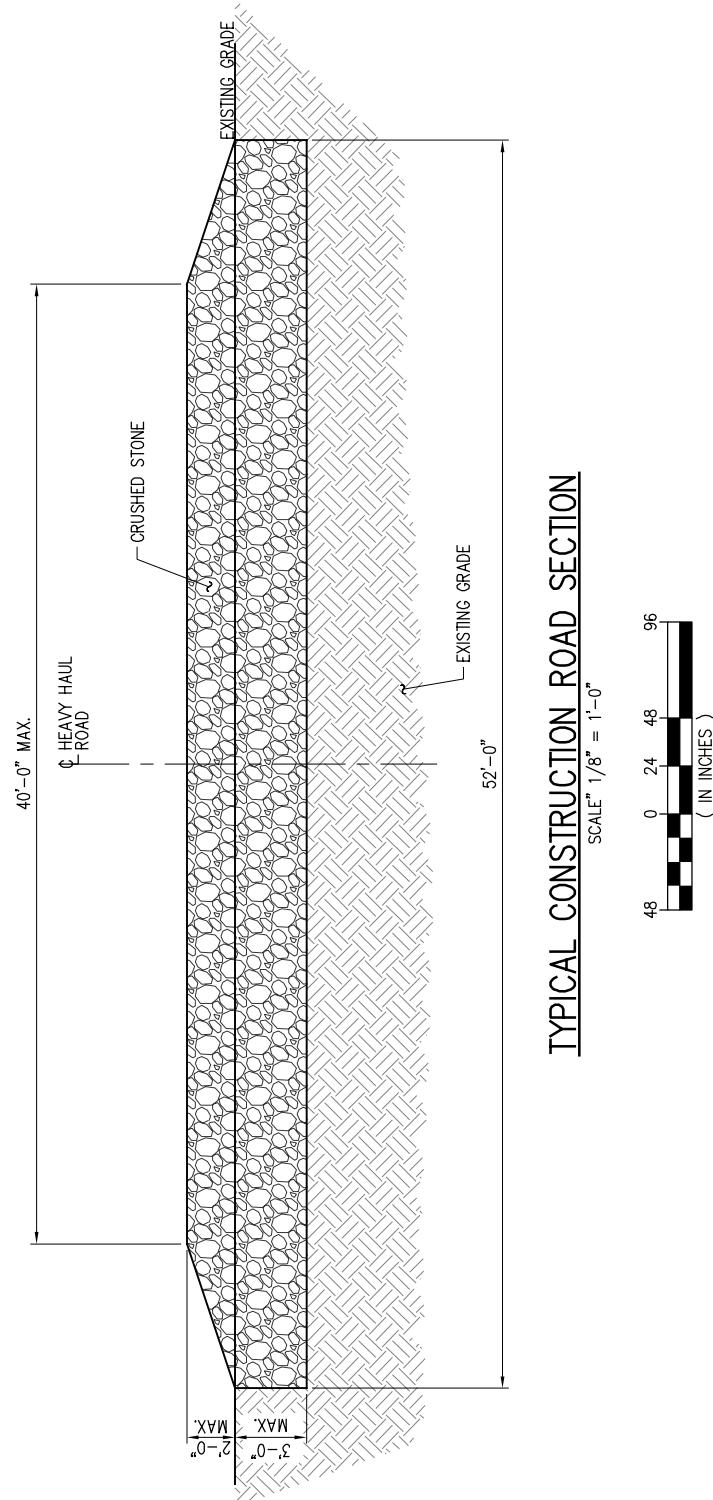
CHRISTOPHER L. O'BRIEN P.E.
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10537-P8



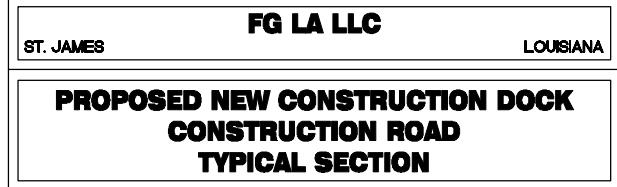
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CONTRACT	10537
SHEET No.	
8 OF	16



CHRISTOPHER L. O'BRIEN P.E.
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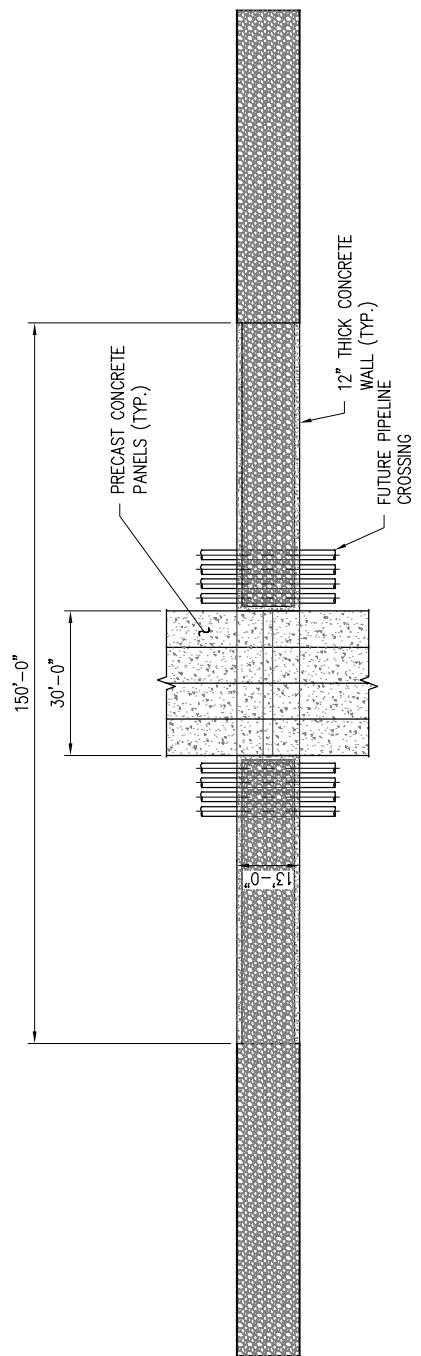
PRELIMINARY - FOR PERMIT PURPOSES ONLY

10537-P9

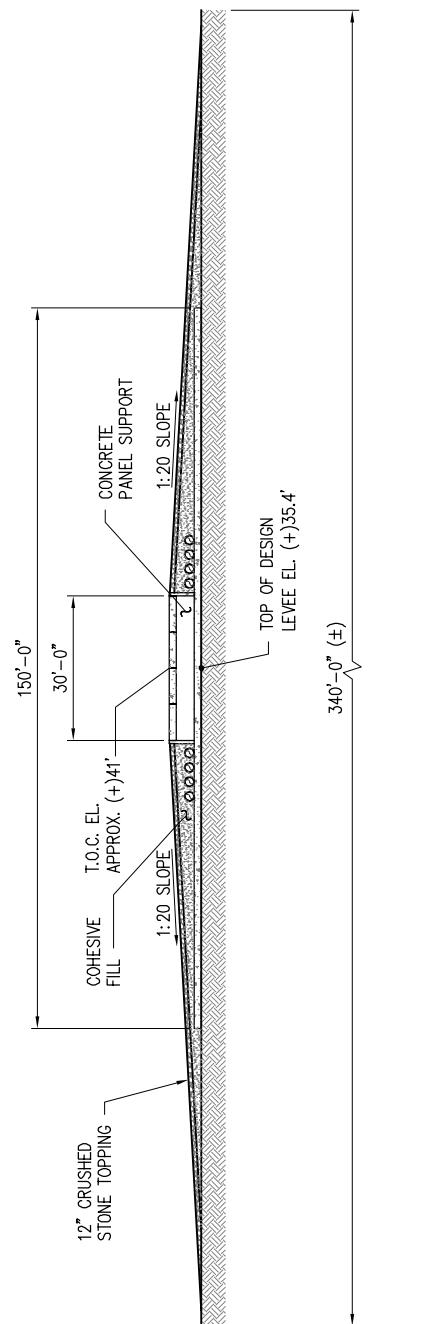


DATE	DEC. 2017
DESIGN	CLO
DRAWN	NAH
CHECK	NPL
CONTRACT	10537
SHEET No.	

9 OF 16



LEVEE CROSSOVER – PLAN



LEVEE CROSSOVER – ELEVATION

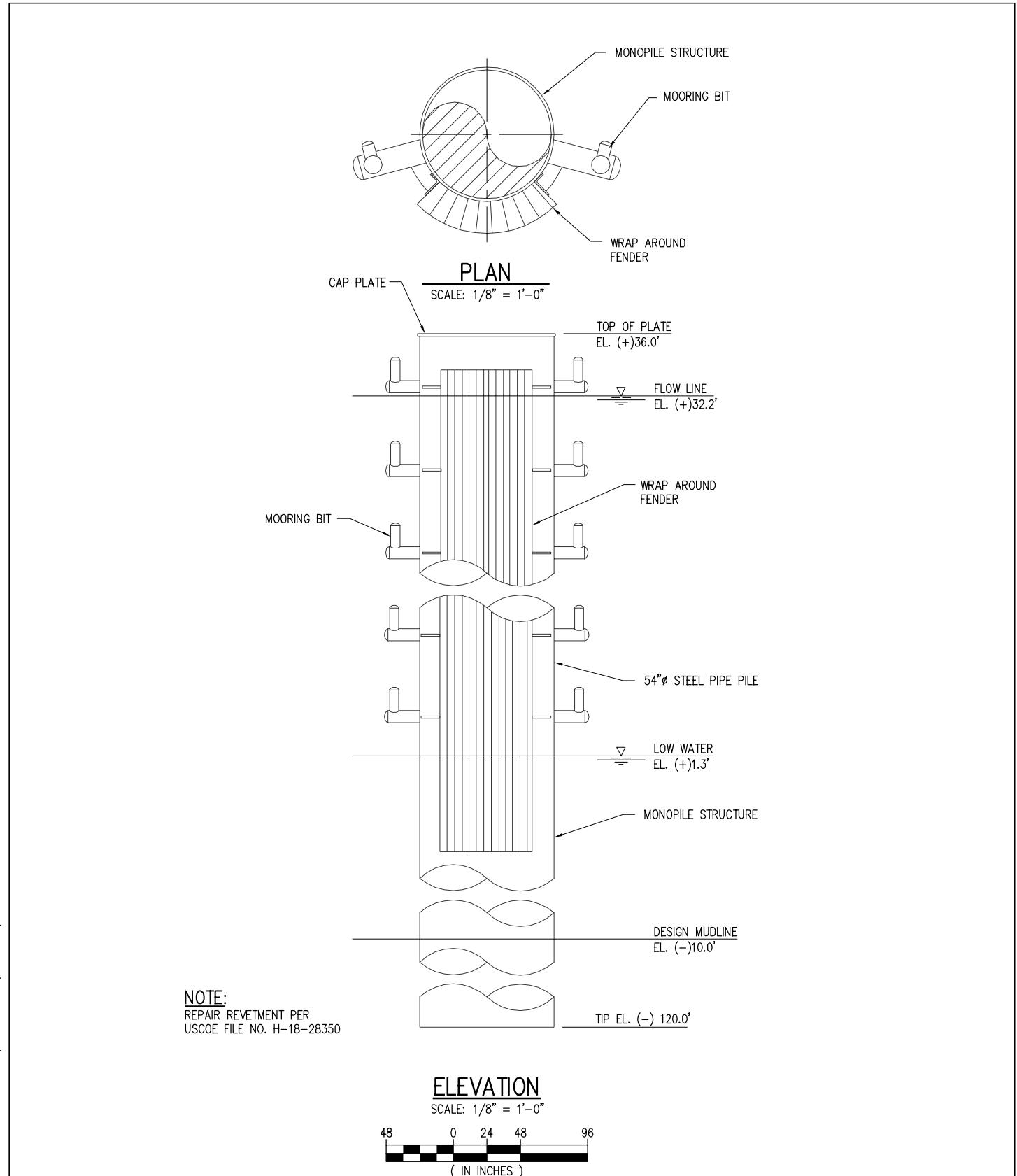
10537-P10

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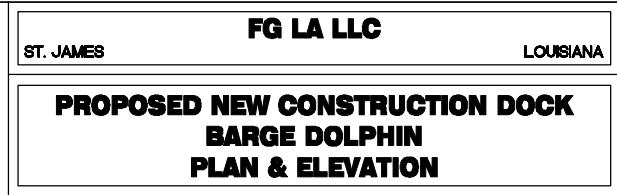
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DESIGN	CLO
DRAWN	NAH
CHECK	NPL
CONTRACT	10537
SHEET No.	
10	OF 16



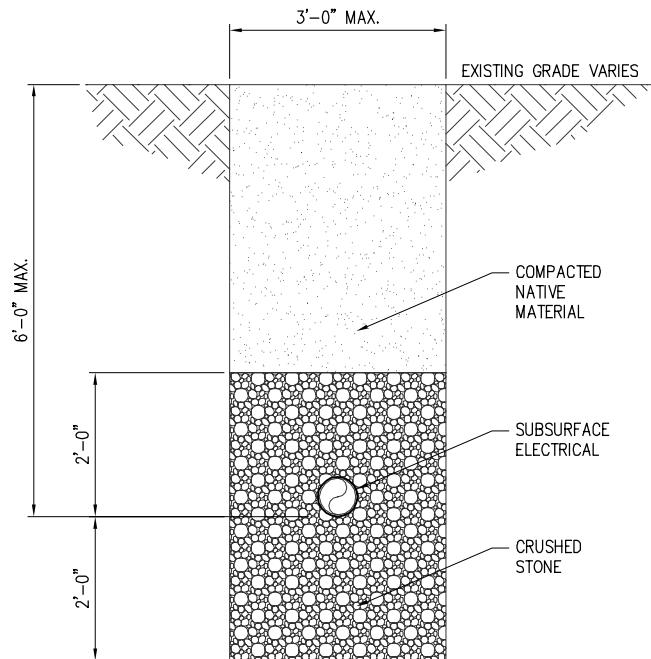
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10537-P11



DATE DEC. 2017
DESIGN CLO
DRAWN NAH
CHECK NPL
CONTRACT 10537
SHEET No.
11 OF 16



TYP. SECTION

SCALE: $\frac{3}{8}'' = 1'-0''$



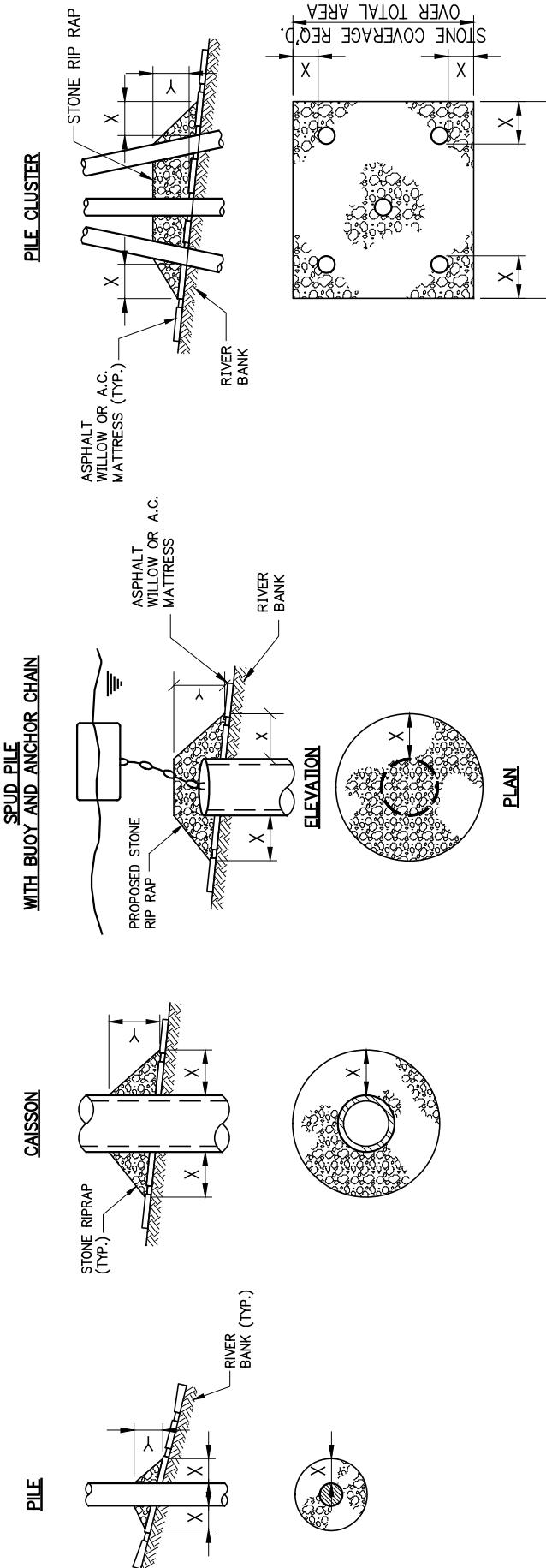
CHRISTOPHER L. O'BRIEN P.E.
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10537-P12



DATE DEC. 2017
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DRAWN NAH
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SHEET No.
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STONE COVERAGE REQ'D.
OVER TOTAL AREA

PRELIMINARY - FOR PERMITTING PURPOSES ONLY

NOTES:

1. SIZE OF RIPRAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40% TO 60% OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS.
2. WHEN PENETRATING UPPER BANK PAVING IN A REVETMENT AREA WITH PILES, CAISSENS AND/OR PILE CLUSTERS, A 10 INCH THICKNESS OF RIPRAP STONE SHALL BE PLACED OVER ALL AREAS WHERE BANK PAVING IS DISTURBED BY DRIVING OPERATIONS.
3. WHEN USING ANCHOR CHAIN AND BUOY SYSTEM ANCHOR CHAIN MUST BE ATTACHED AT TOP OF PILE TO MINIMIZE REVENEMENT DAMAGE.

DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT	DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED					
	PILE	CAISSON	SPUD PILE W/ ANCHOR CHAIN & BUOY	PILE CLUSTER	PILE CLUSTER	PILE CLUSTER
X	Y	X	Y	X	Y	X
1 TO 10	3	1 1/2	5	2	3	1
11 TO 40	5	2	8	3	7	3
41 TO 60	8	3	12	4	12	4
				10	3	3

FILE NO. 10537-000 Rev. 10537-P13, LSC 100, pg. 13 OF 16

REPAIR PROCEDURES REQUIRED
WHEN PENETRATING REVETMENTS
WITH PILES, CAISSENS AND/OR
PILE CLUSTERS

U.S. ARMY ENGINEERS DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS

DEC. 1987

FILE NO. H-18-28350

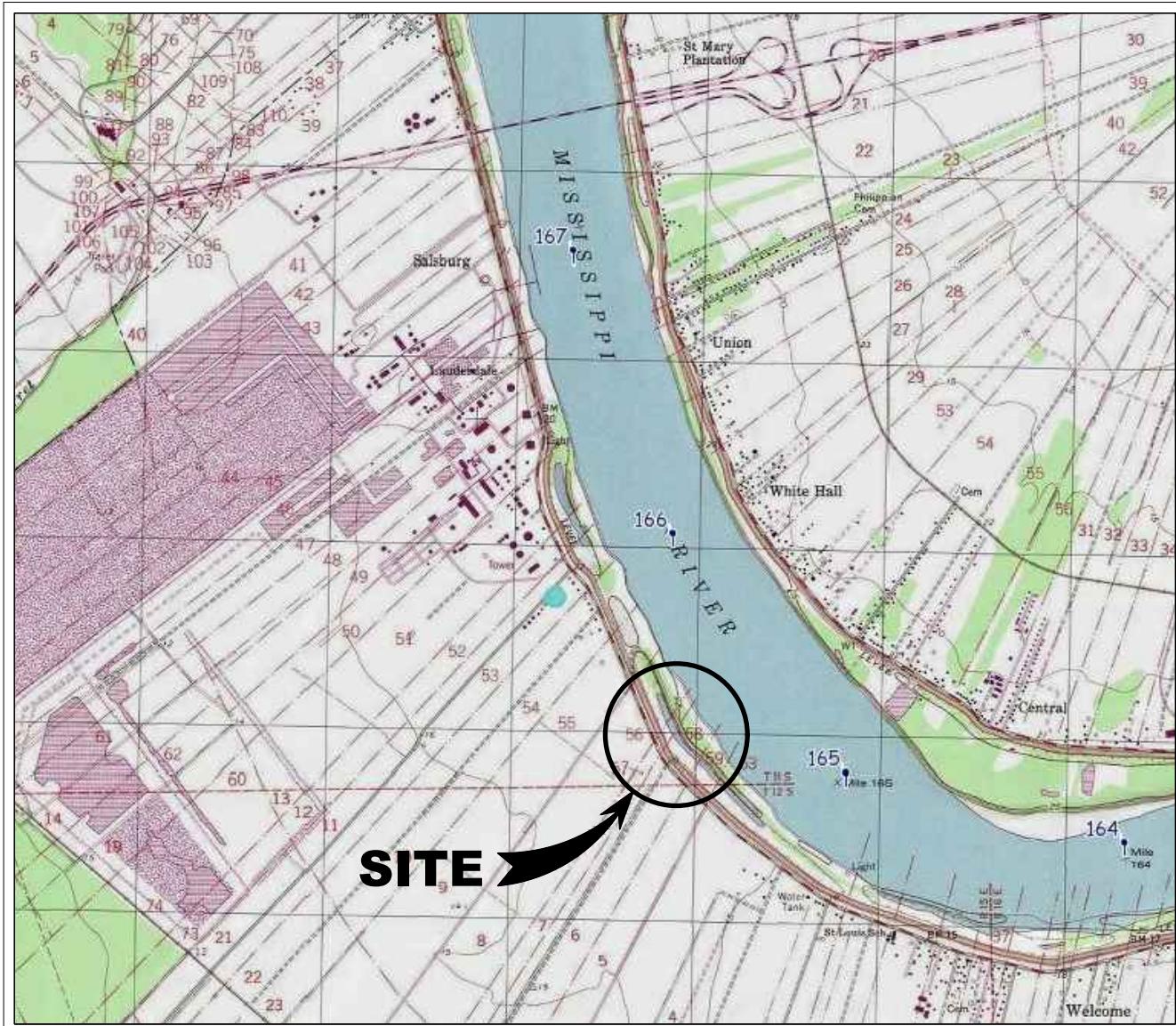


PRELIMINARY - FOR PERMITTING PURPOSES ONLY

NOTES:

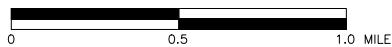
1. A 10 MIN. DISTANCE COR AS OTHERWISE REQUIRED BETWEEN THE LEVEE TOE AND THE PIPELINE SUPPORT.
2. CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN SPREAD FOOTINGS REST ON LEVEE SLOPES.
3. IN ABSENCE OF FOOTING ON LEVEE, LANDSIDE SLOPE PAVING WILL NOT BE REQUIRED.
4. SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND THE EXISTING LEVEE.
5. ALL FRESH FILLS SHALL BE SOOTED OR FERTILIZED AND SEDED AND SHALL BE MAINTAINED UNTIL A HERBAL 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 MATERIEXITENT FOR ENTRANCE AND EXIT OF THE RAMP. THE CROWN OF THE ENLARGED LEVEE AND THE SURFACE PAVING WILL MEET THE REQUIREMENTS OF USBR SECTION 102.04 (b) 2000 EDITION.
7. FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMPS, PIPE COVERS AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
8. WILDFLOWE MARKERS SHALL BE PLANTED AND MAINTAINED IN EACH LEVEE, IN LINE WITH THE OWNER'S STANDARDS. THE NUMBER OF LINES, PRODUCT AND ADDRESSES FOR CONTACTING OWNER.

LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.
NEW ORLEANS, LA FRM-1-120 • BEAUMONT, TX
JOB NO. 10537 CAD NO. 10537-P14 LIA DNG. NO. 14 OF 16

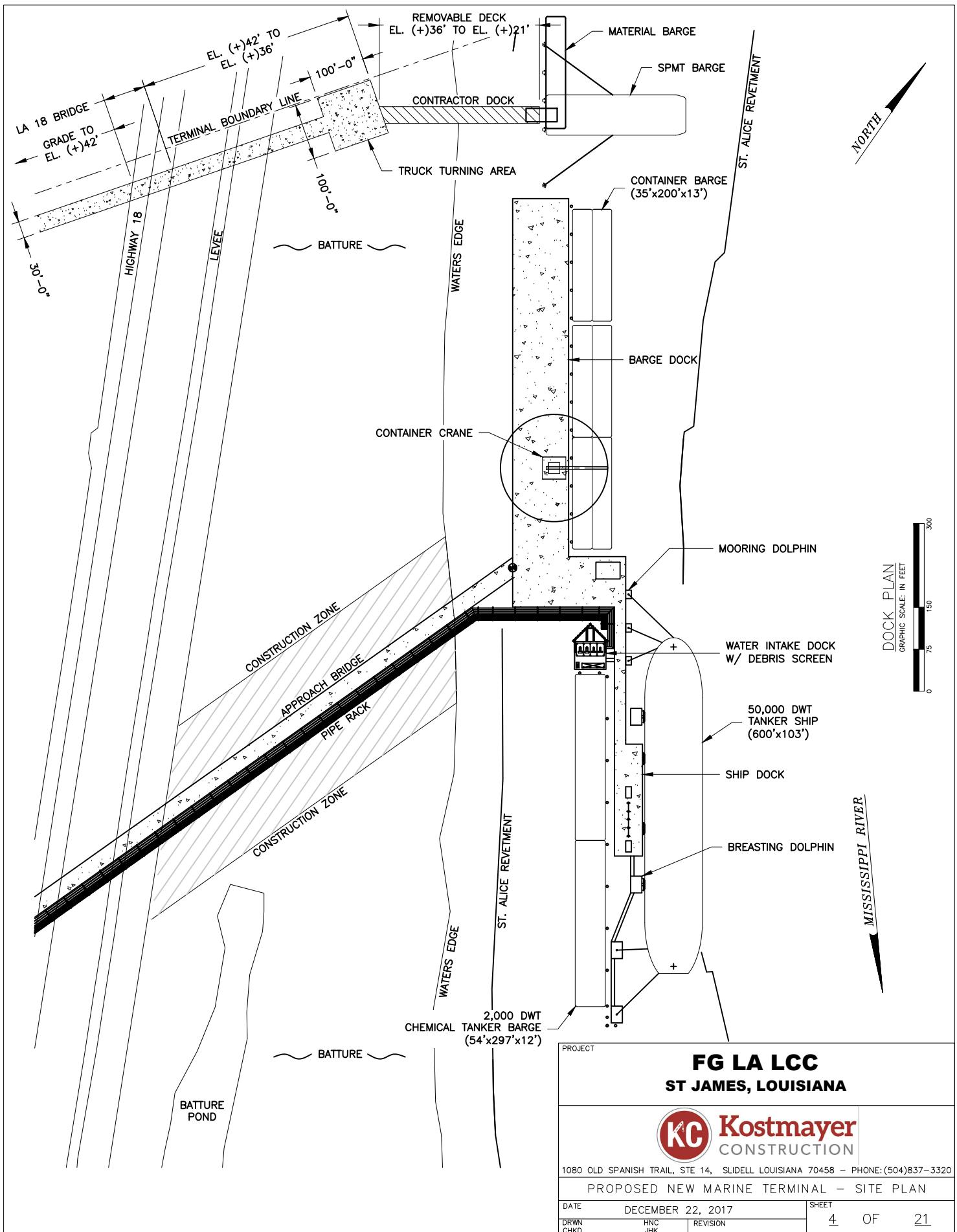


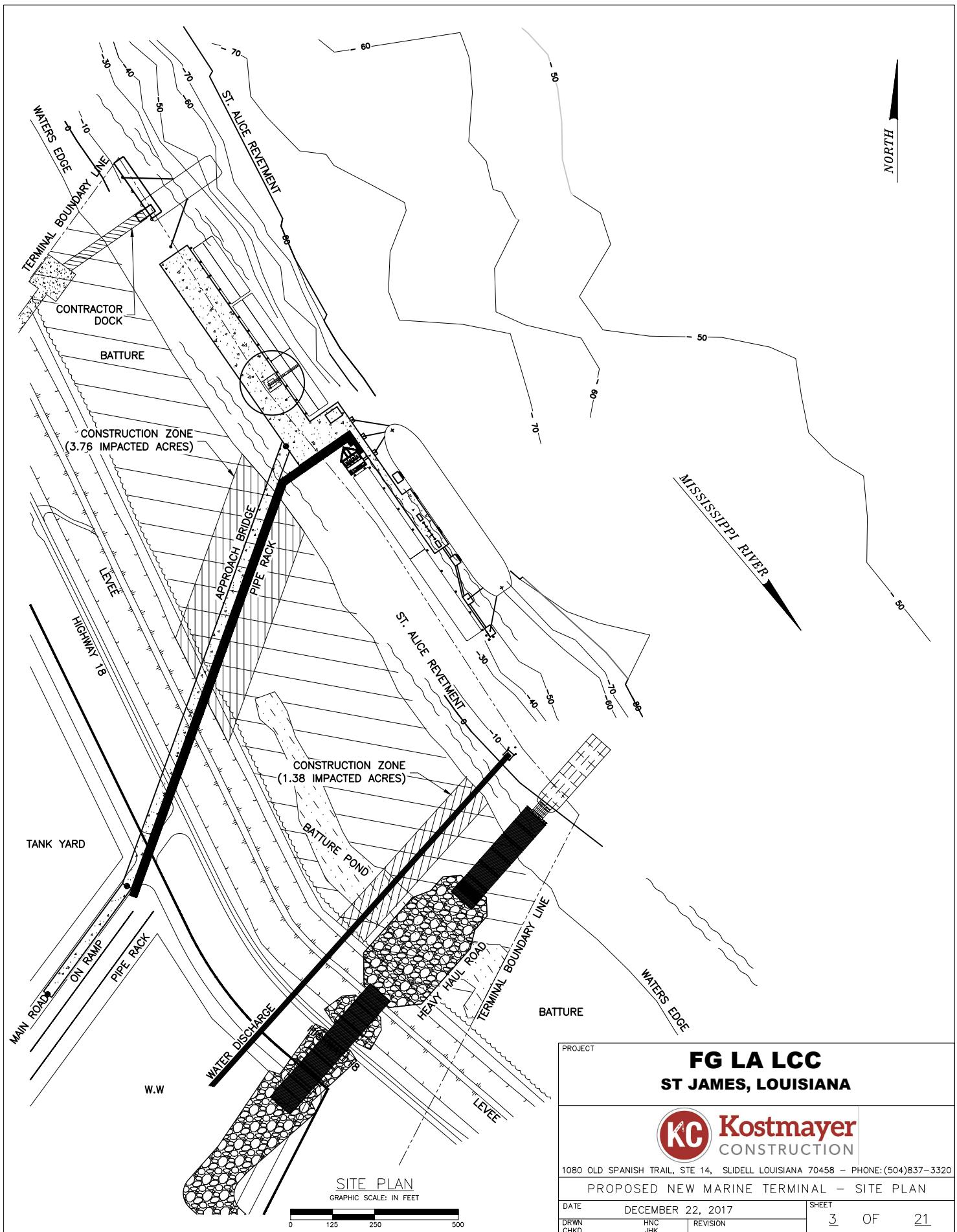
PARISH: ST. JAMES PARISH
 LATITUDE: 30°03'06.1"
 LONGITUDE: 90°38'34.3"

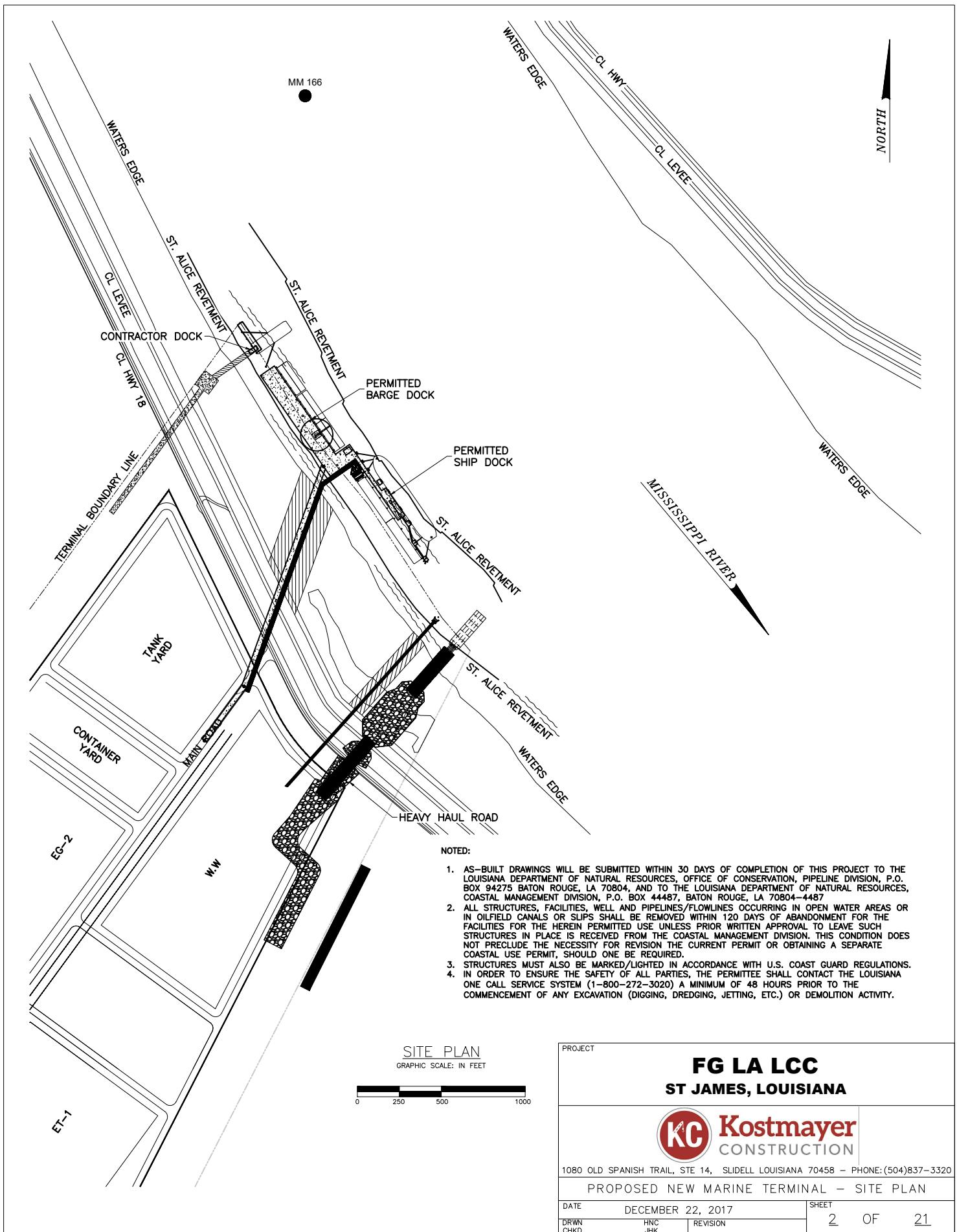
VICINITY MAP
GRAPHIC SCALE: IN MILES

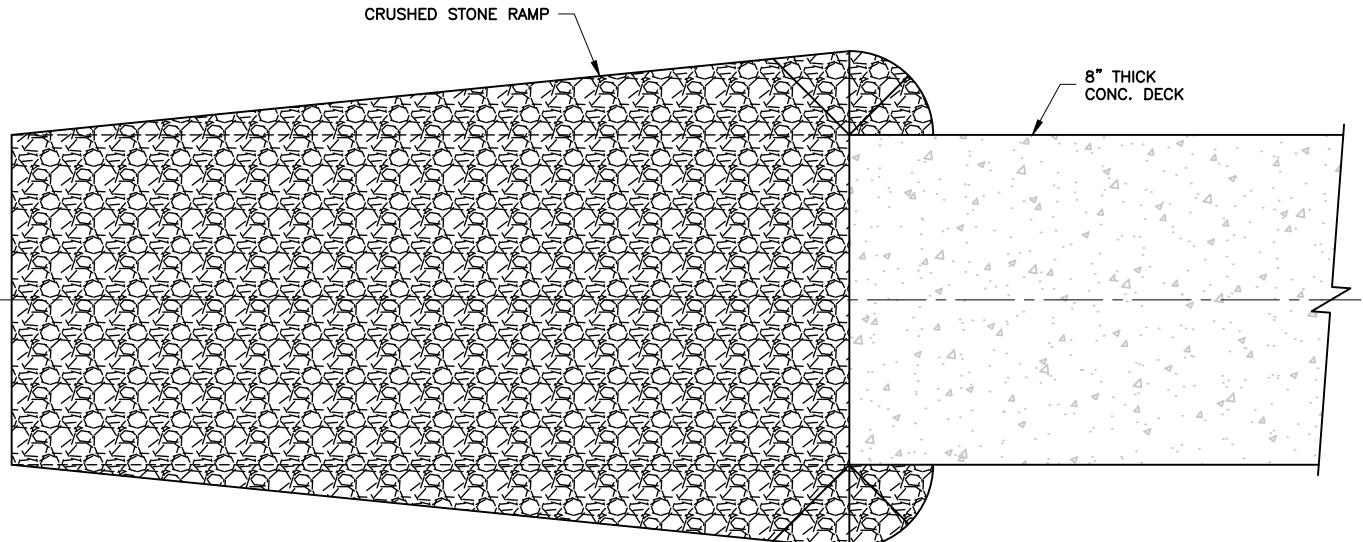


PROJECT	
FG LA LCC ST JAMES, LOUISIANA	
 Kostmayer CONSTRUCTION	
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320	
PROPOSED NEW MARINE TERMINAL – SITE PLAN	
DATE	OCTOBER 20, 2017
DRWN	HNC
CHKD	JHK
REVISION	
SHEET	1 OF 21



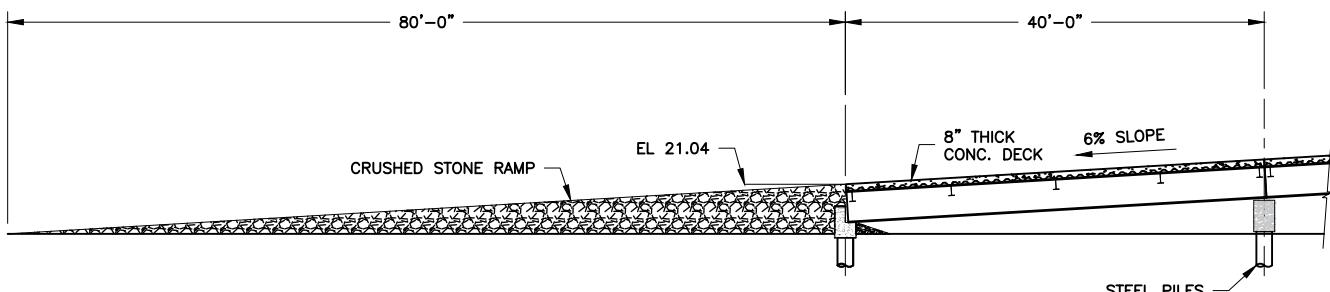






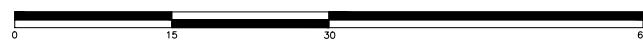
PLAN ACCESS RAMP

GRAPHIC SCALE: IN FEET

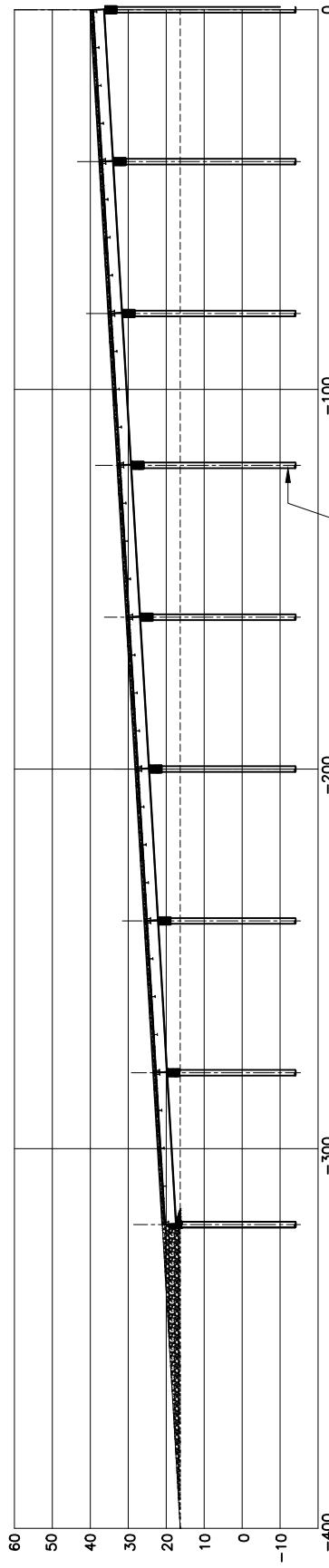


ELEVATION ACCESS RAMP

GRAPHIC SCALE: IN FEET



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Kostmayer CONSTRUCTION			
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 - PHONE: (504)837-3320			
DATE	OCTOBER 20, 2017	SHEET	
DRWN	HNC	REVISION	5 OF 21
CHKD	JHK		

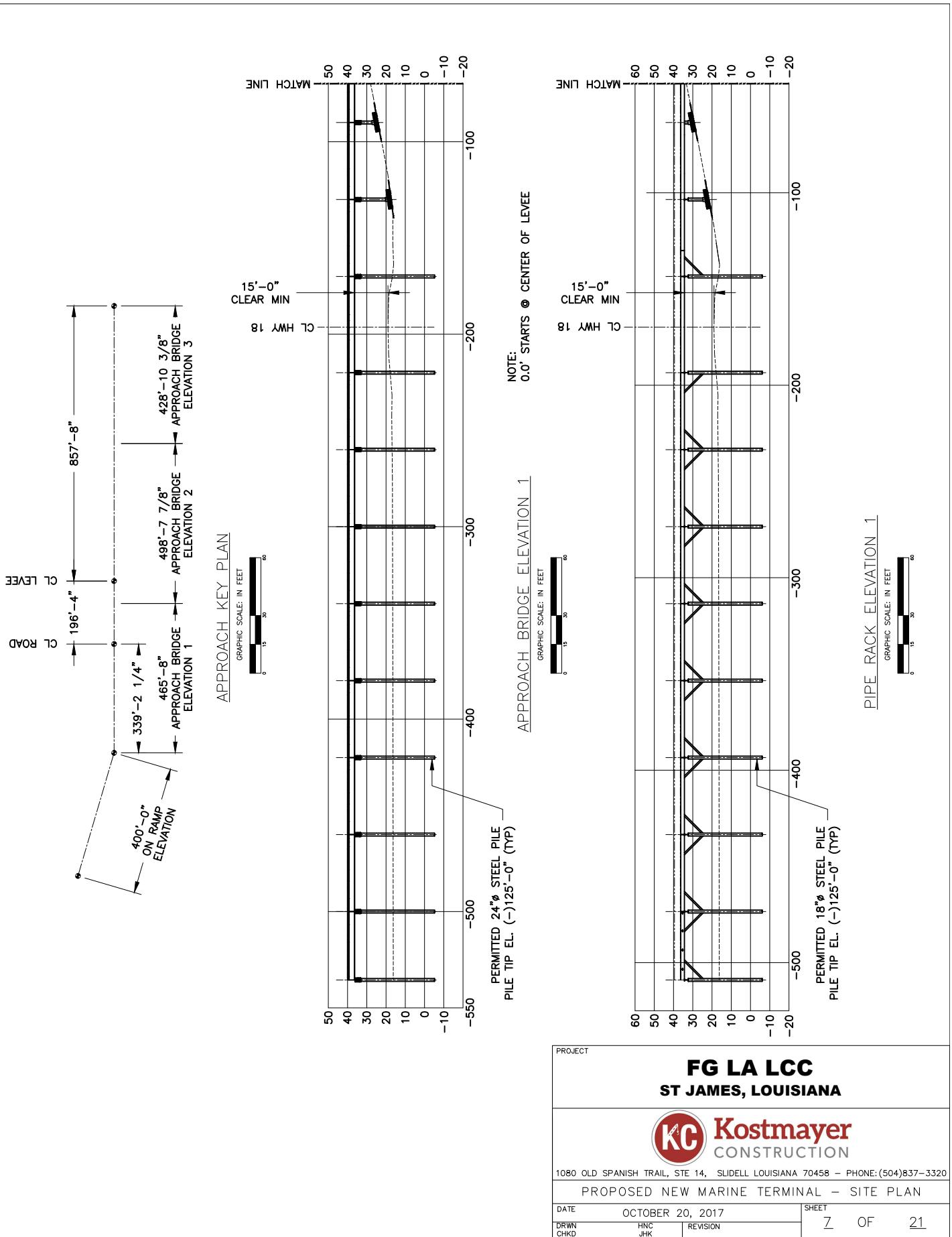


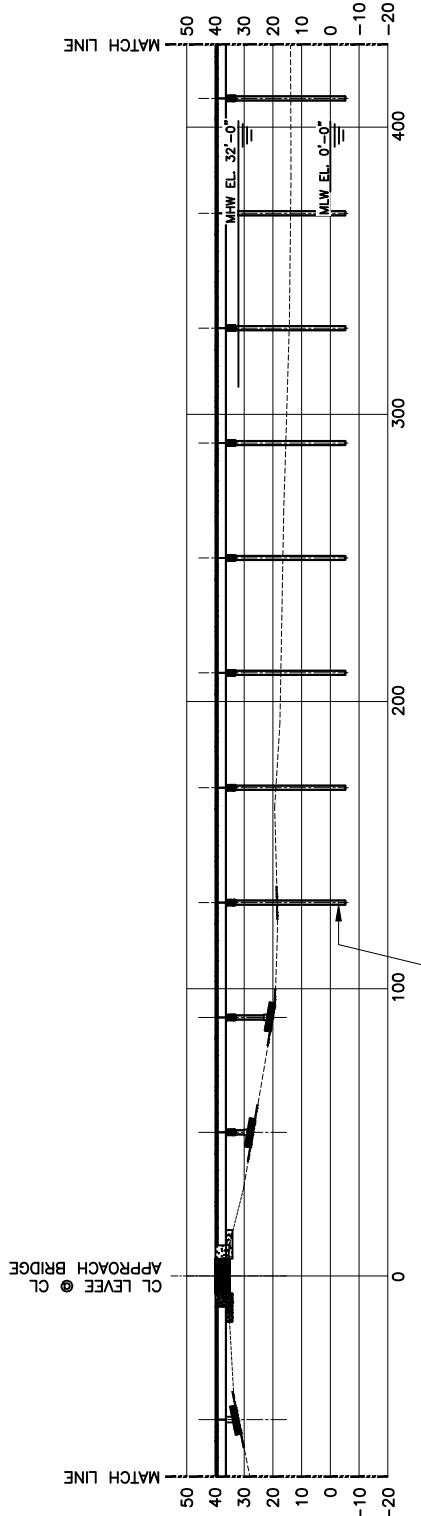
APPROACH BRIDGE ON RAMP



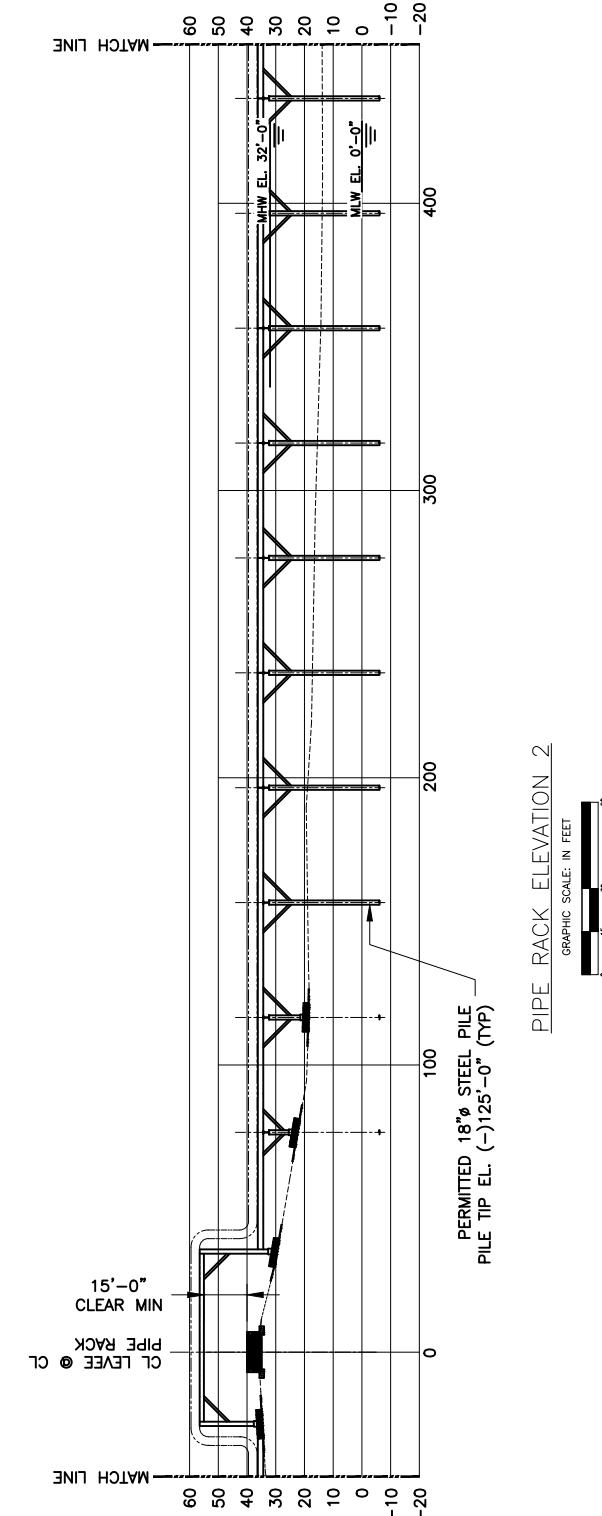
NOTE:
0' STARTS @ CL OF
APPROACH BRIDGE & CL OF
LEVEE. SEE KEY PLAN.

PROJECT	
FG LA LCC ST JAMES, LOUISIANA	
	Kostmayer CONSTRUCTION
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320	
PROPOSED NEW MARINE TERMINAL – SITE PLAN	
DATE DRAWN CHKD	OCTOBER 20, 2017 HNC JHK
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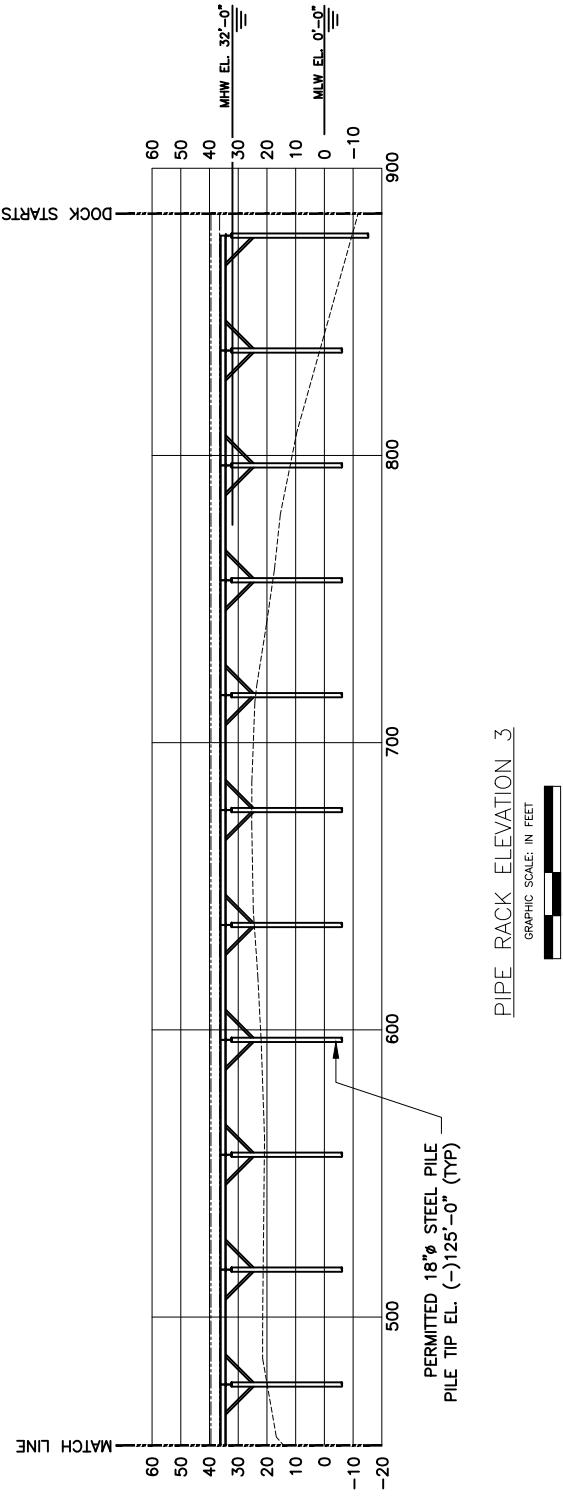
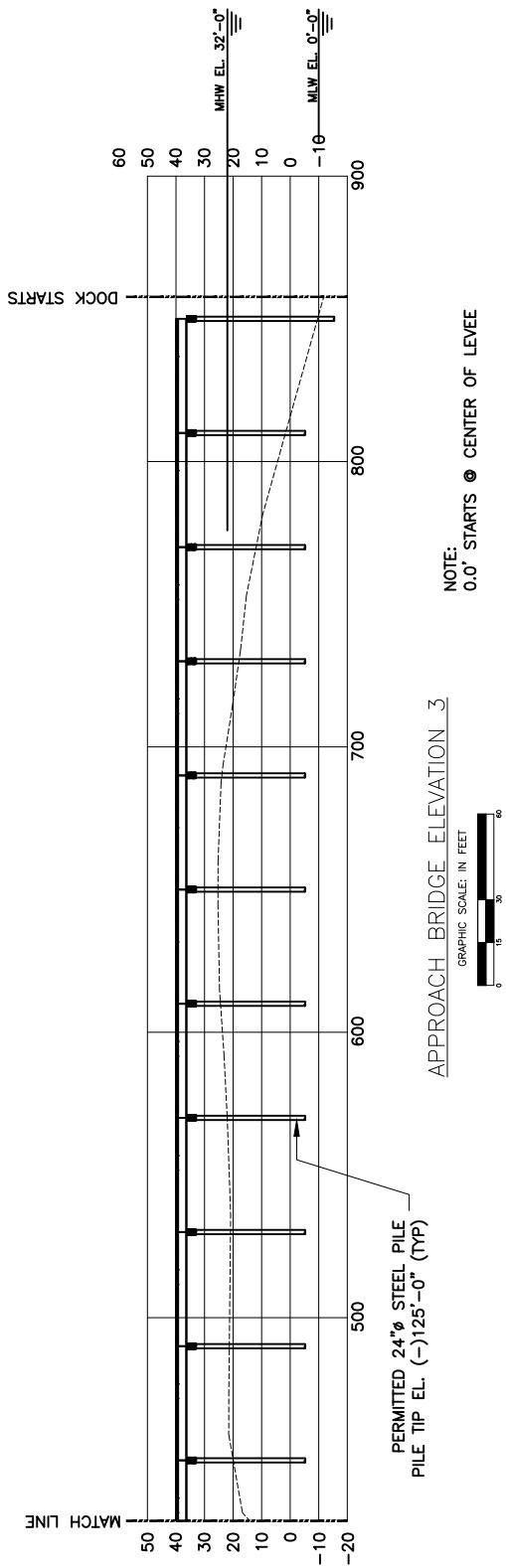




NOTE:
0.0' STARTS @ CENTER OF LEVEE



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Kostmayer	CONSTRUCTION		
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320	PROPOSED NEW MARINE TERMINAL – SITE PLAN		
DATE OCTOBER 20, 2017	HNC JHK	REVISION	SHEET 8 OF 21



PROJECT

FG LA LCC
ST JAMES, LOUISIANA

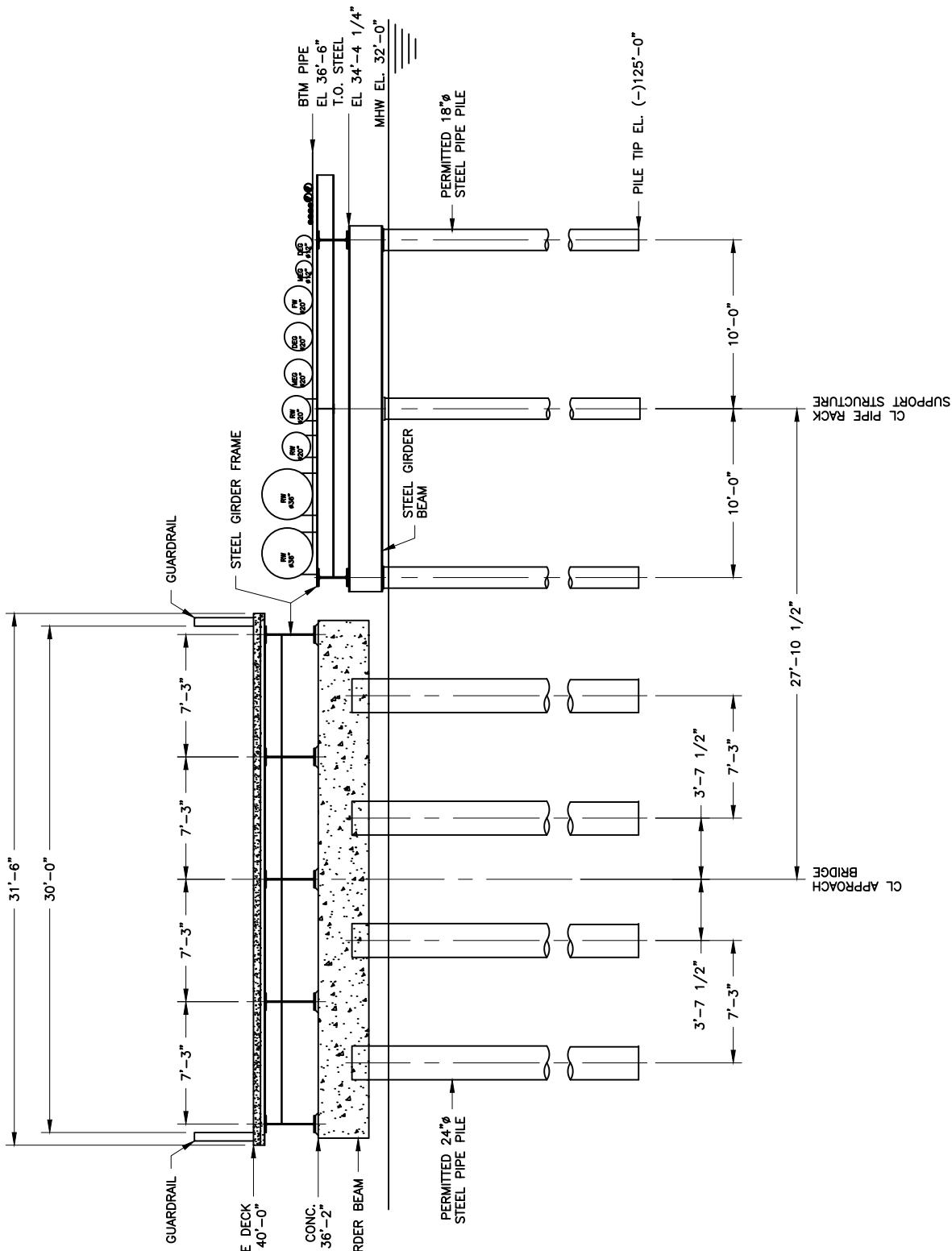


Kostmayer
CONSTRUCTION

1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 - PHONE: (504)837-3320

PROPOSED NEW MARINE TERMINAL – SITE PLAN

DATE	OCTOBER 20, 2017	
DRWN	HNC	REVISION



PROJECT

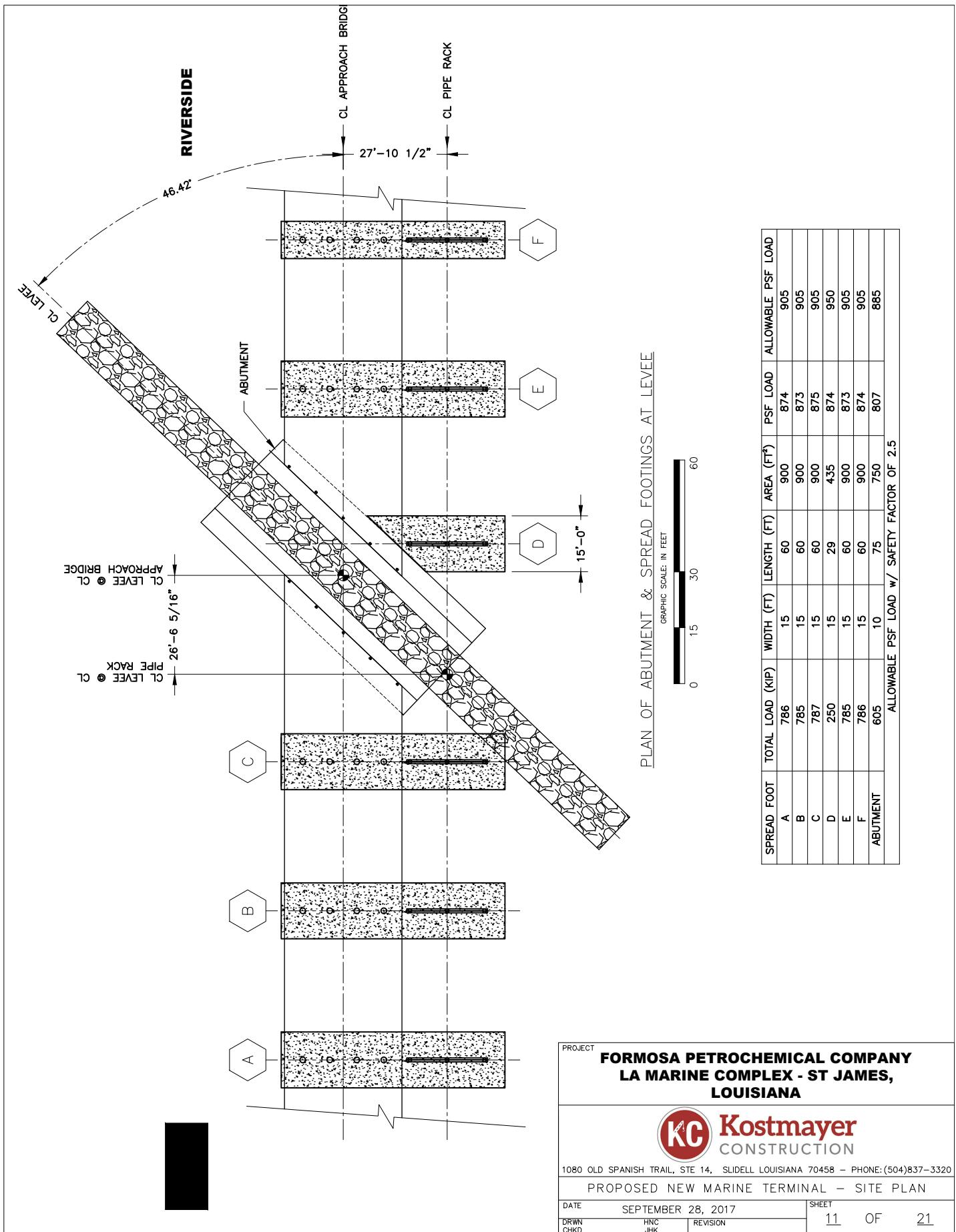
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ST JAMES, LOUISIANA**

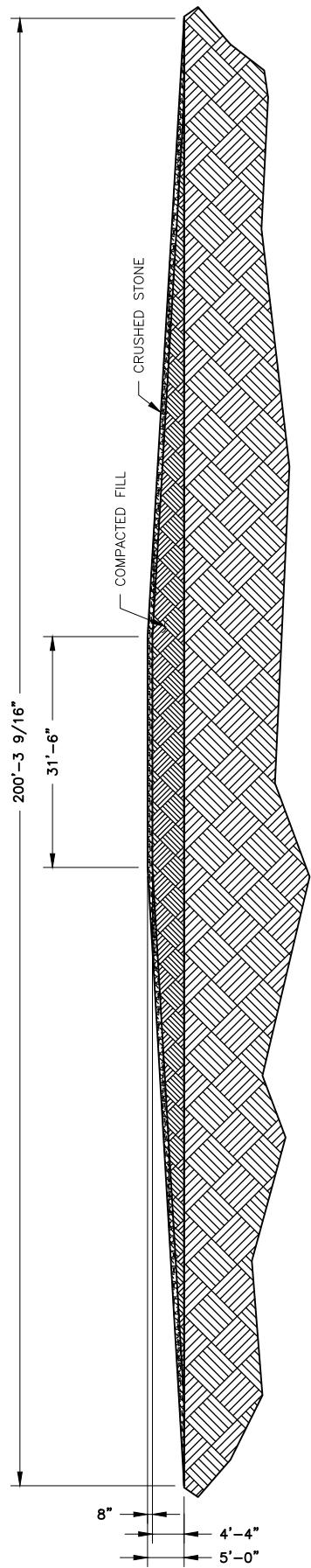


1080 OLD SPANISH TRAIL, STE. 14, SLIDELL LOUISIANA 70458 - PHONE: (504)837-3320

PROPOSED NEW MARINE TERMINAL - SITE PLAN

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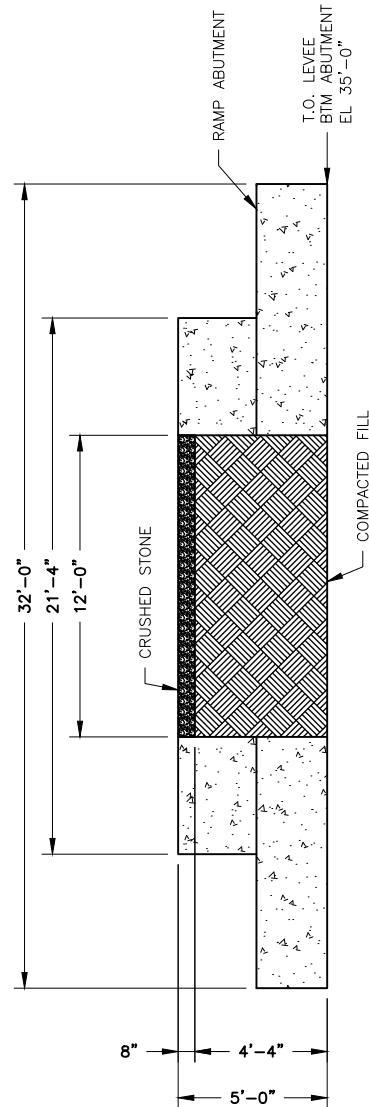




ELEVATION OF CROSSING RAMP

GRAPHIC SCALE: IN FEET

0 15 30 60

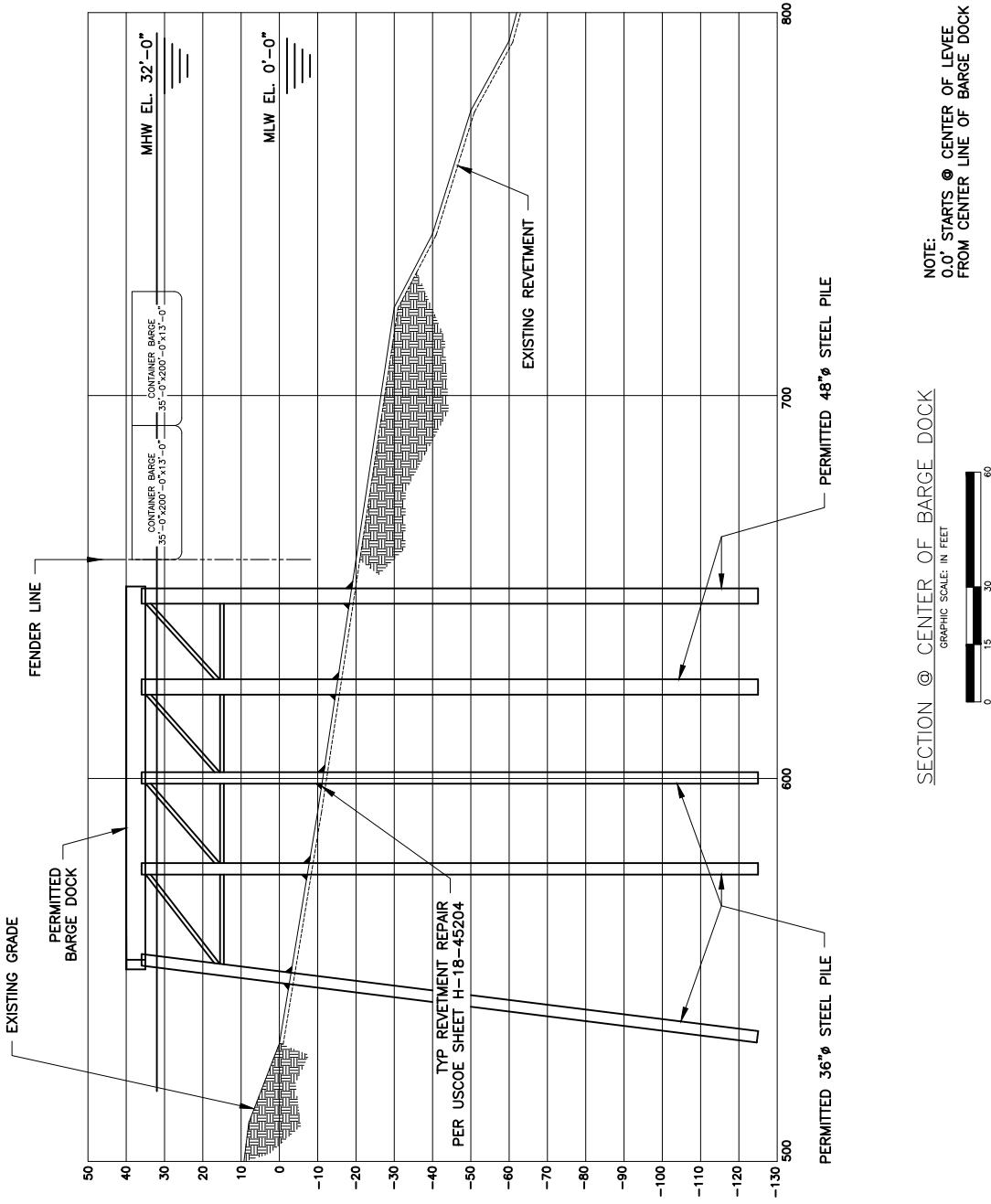


CROSS SECTION OF CROSSING RAMP

GRAPHIC SCALE: IN FEET

0 5 10 20

PROJECT	
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1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 - PHONE: (504)837-3320	
PROPOSED NEW MARINE TERMINAL - SITE PLAN	
DATE	OCTOBER 20, 2017
DRWN	HNC
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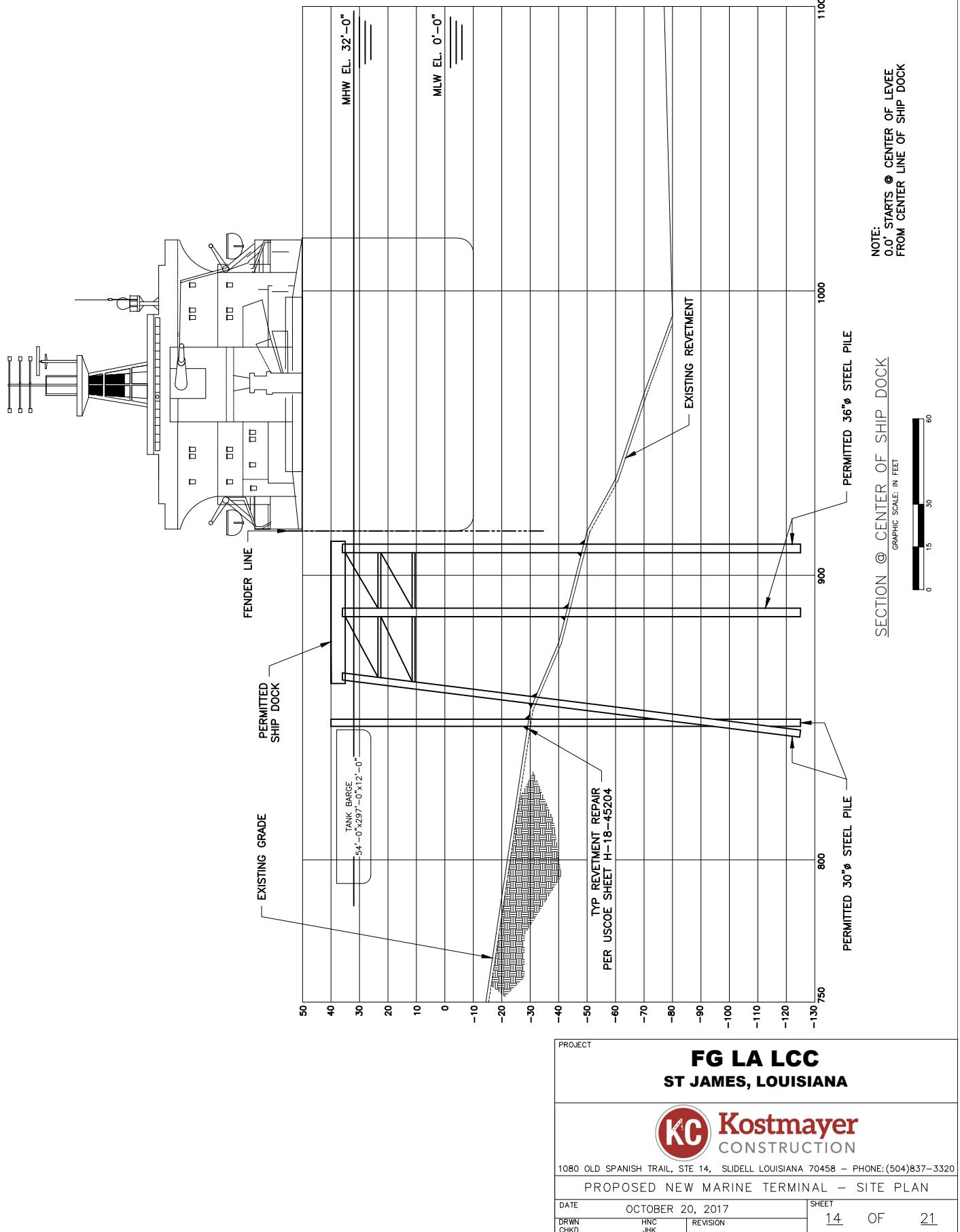


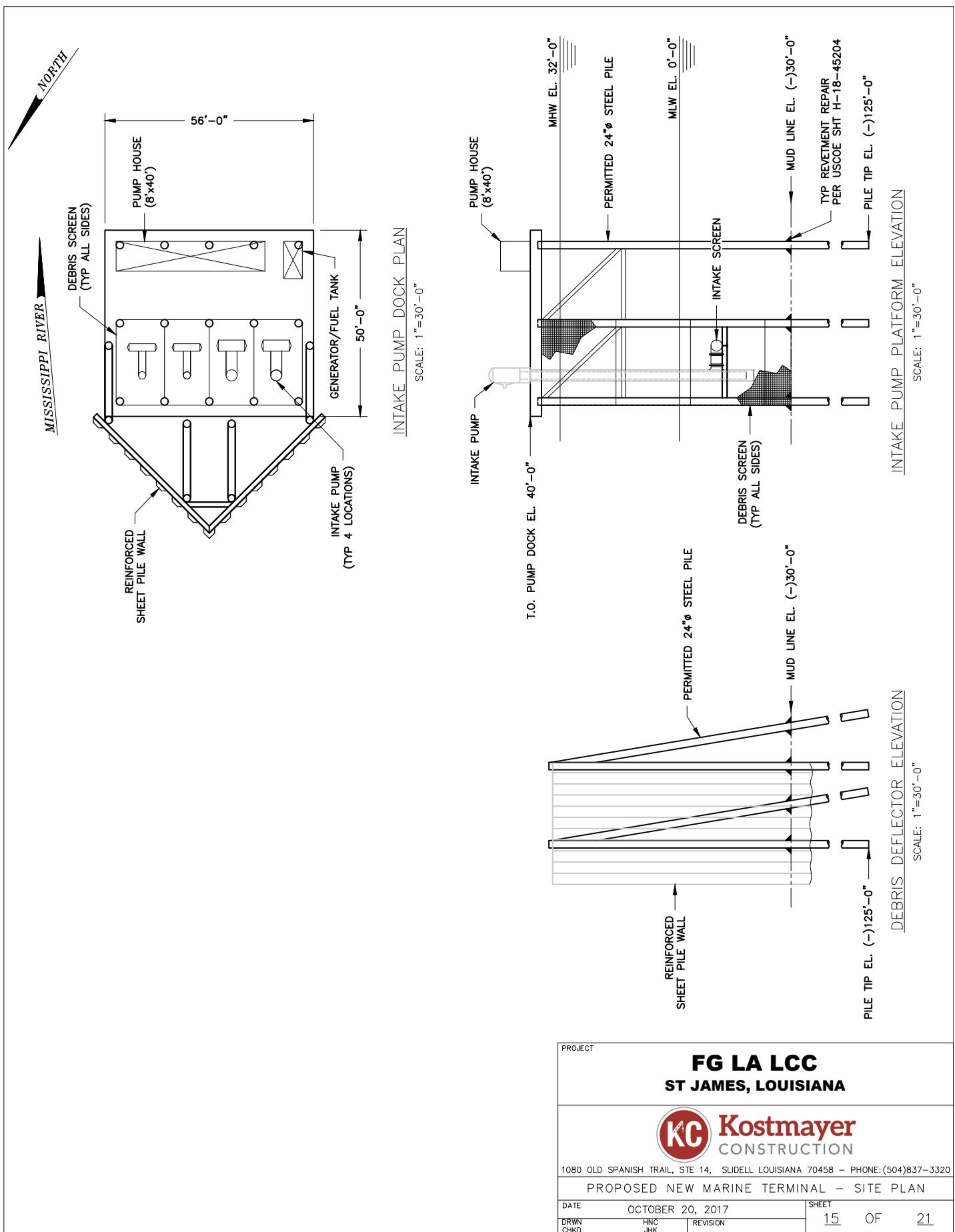
SECTION @ CENTER OF BARGE DOCK

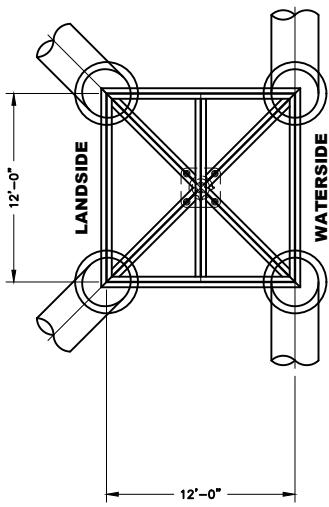
GRAPHIC SCALE: IN FEET



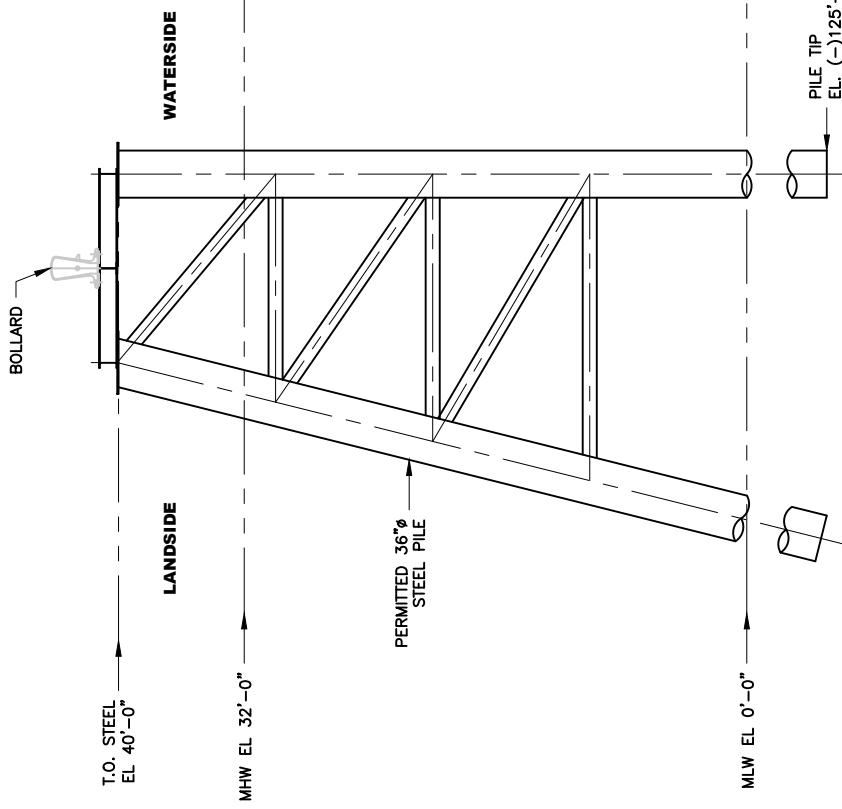
PROJECT		FG LA LCC			
ST JAMES, LOUISIANA					
 Kostmayer CONSTRUCTION					
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320					
PROPOSED NEW MARINE TERMINAL – SITE PLAN					
DATE	OCTOBER 20, 2017	SHEET			
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CHKD					
		13	OF 21		







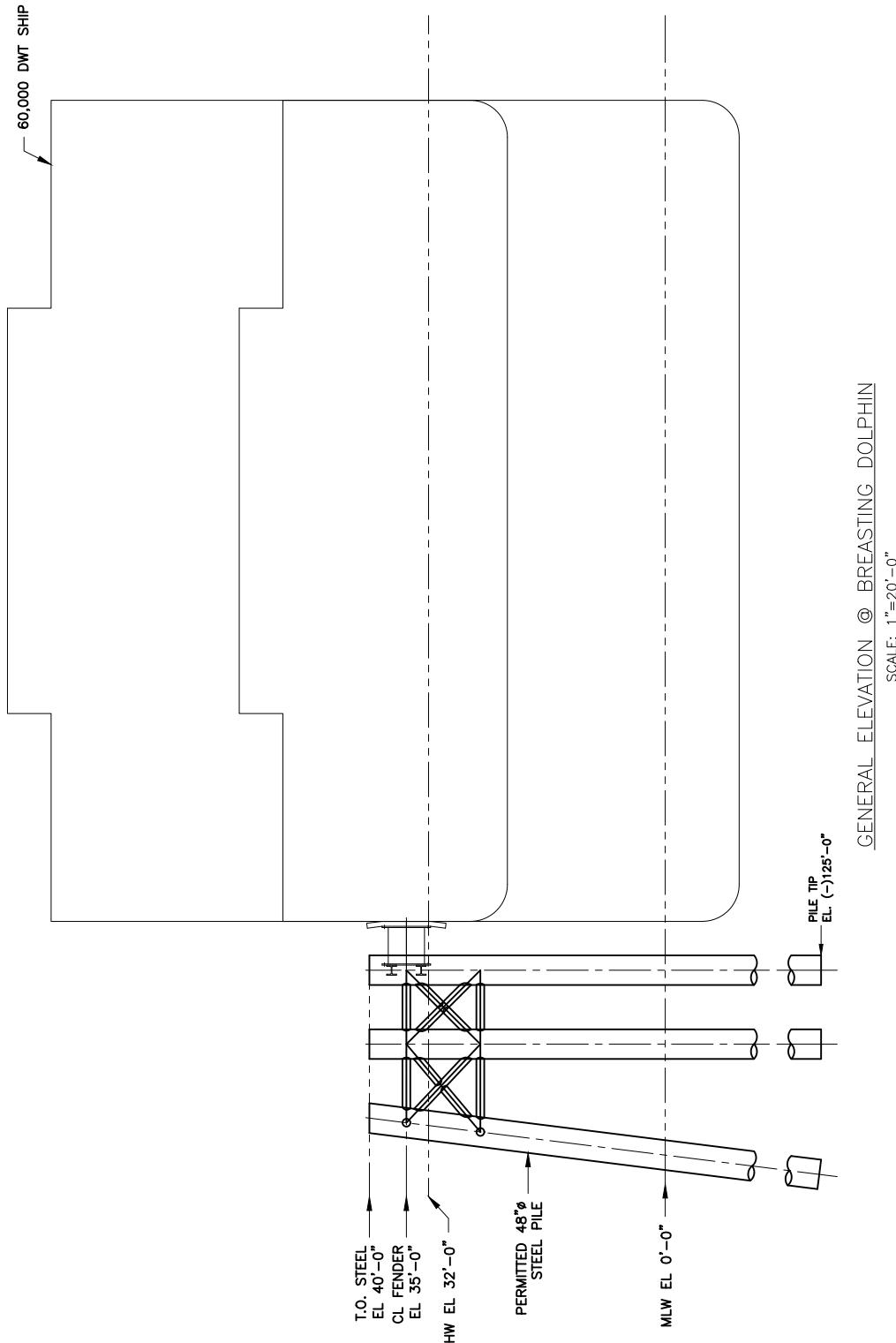
MOORING DOLPHIN - PLAN @ 40'-0"
SCALE: 3/32" = 1'-0"



MOORING DOLPHIN - WATERSIDE ELEVATION
SCALE: 3/32" = 1'-0"

MOORING DOLPHIN - DOWNRIVER ELEVATION
SCALE: 3/32" = 1'-0"
LOOKING UP RIVER

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CHKD					
		16	OF 21		



PROJECT

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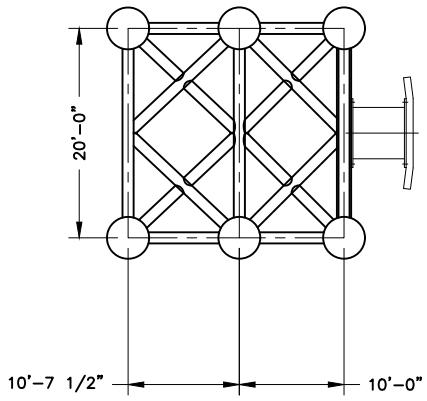


1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320

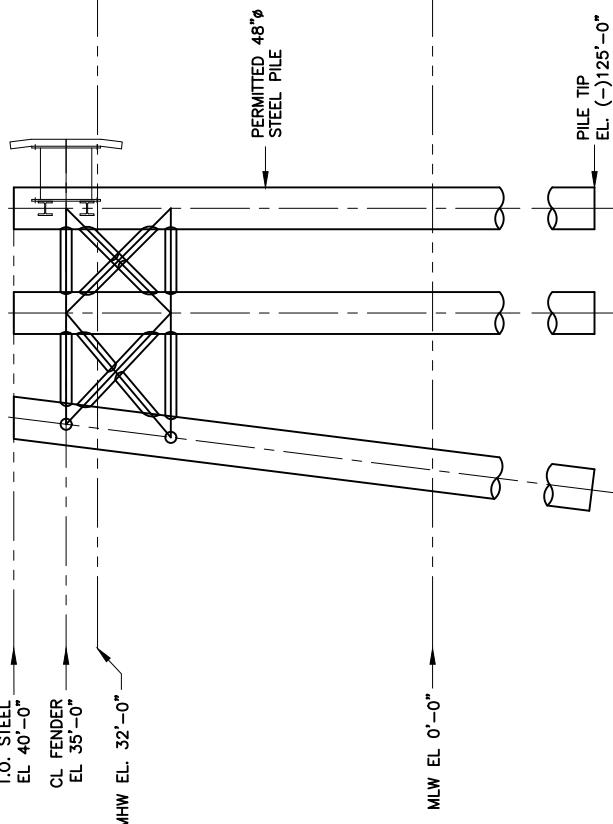
PROPOSED NEW MARINE TERMINAL – SITE PLAN

DATE	OCTOBER 20, 2017
DRWN	HNC
CHKD	JHK

SHEET	17
OF	21

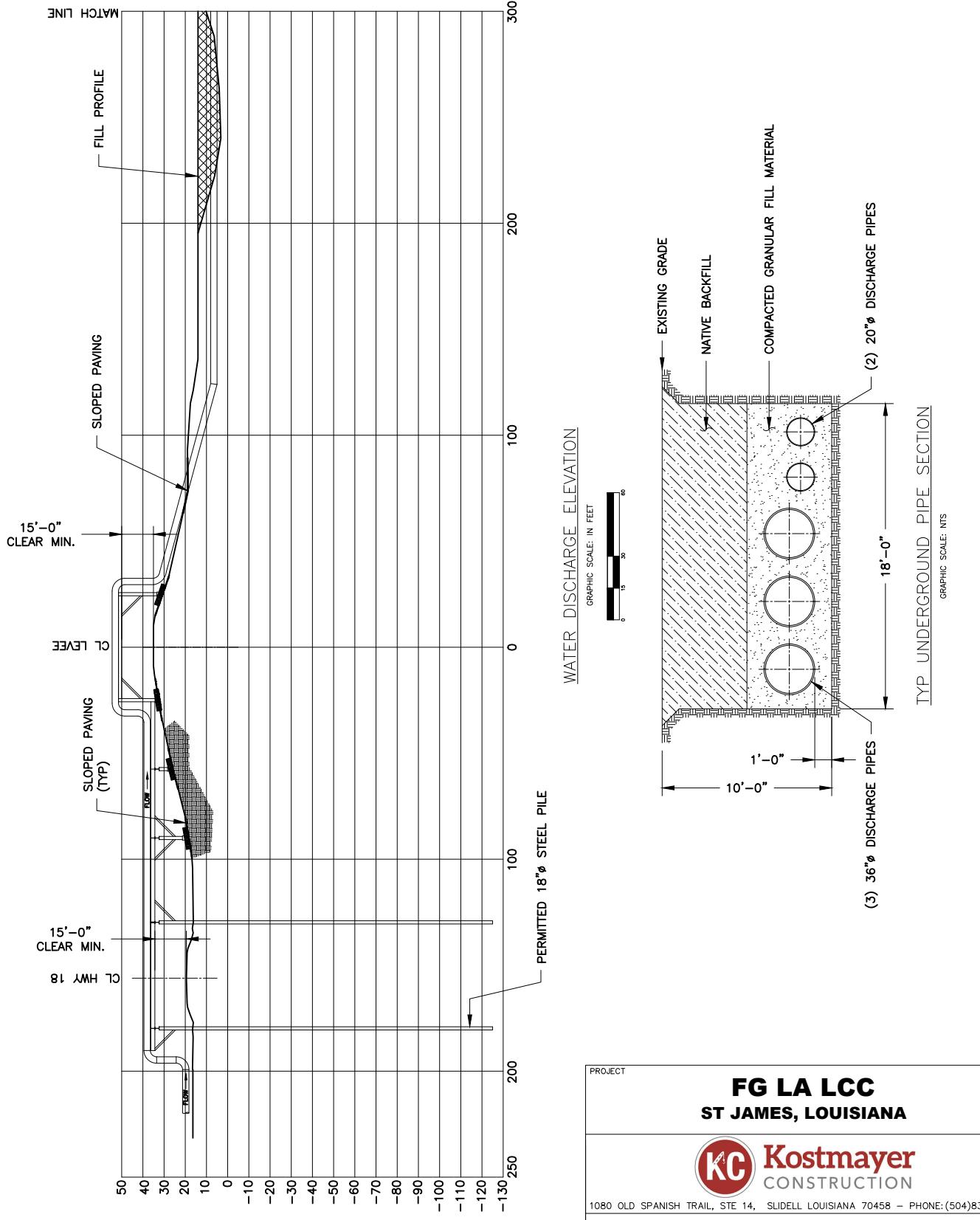


BREASTING DOLPHIN - PLAN @ 35'-0"
SCALE: 1/16"=1'-0"

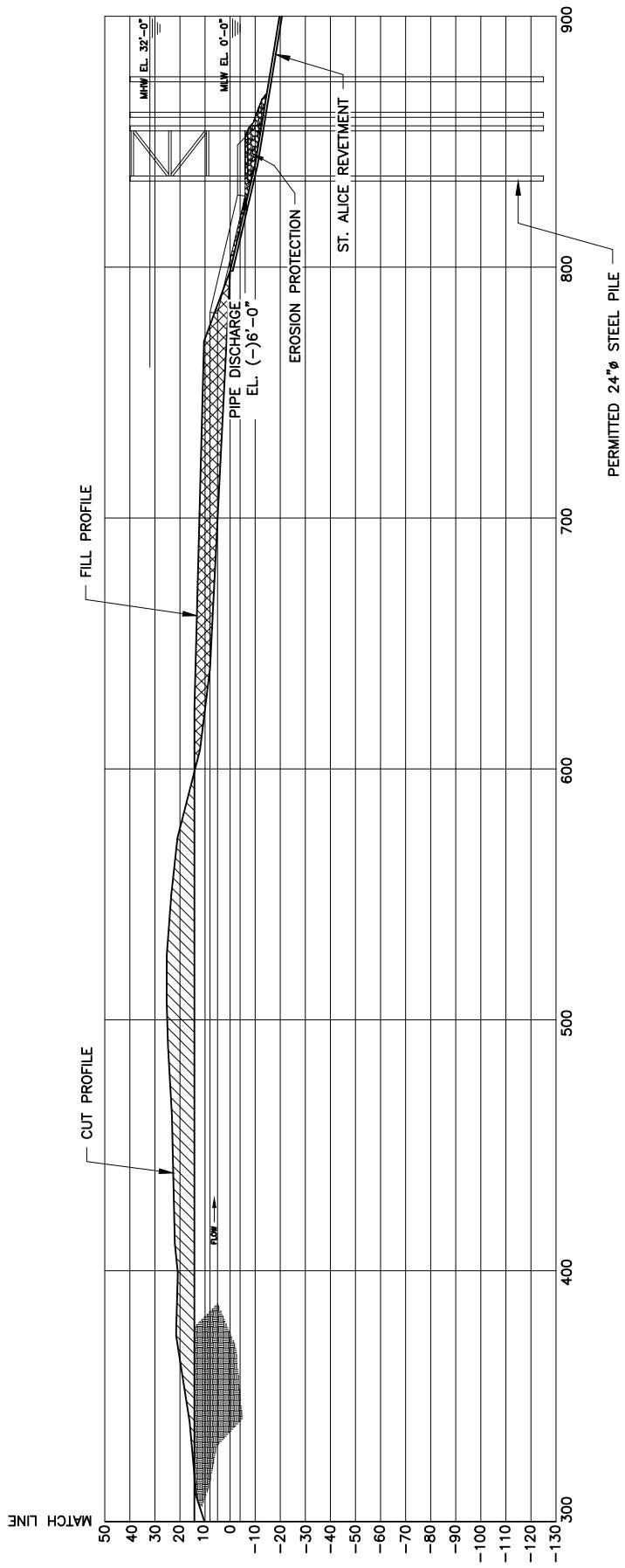


BREASTING DOLPHIN - DOWNRIVER ELEVATION
SCALE: 1/16"=1'-0"
LOOKING UP RIVER

PROJECT	
FG LA LCC ST JAMES, LOUISIANA	
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1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 - PHONE: (504)837-3320	
PROPOSED NEW MARINE TERMINAL - SITE PLAN	
DATE DRAWN CHKD	OCTOBER 20, 2017 HNC JHK
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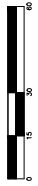


PROJECT	FG LA LCC	
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 Kostmayer CONSTRUCTION		
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320		
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DATE	OCTOBER 20, 2017	SHEET
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CHKD	JHK	REVISION



WATER DISCHARGE ELEVATION

GRAPHIC SCALE: IN FEET



PROJECT

FG LA LCC ST JAMES, LOUISIANA

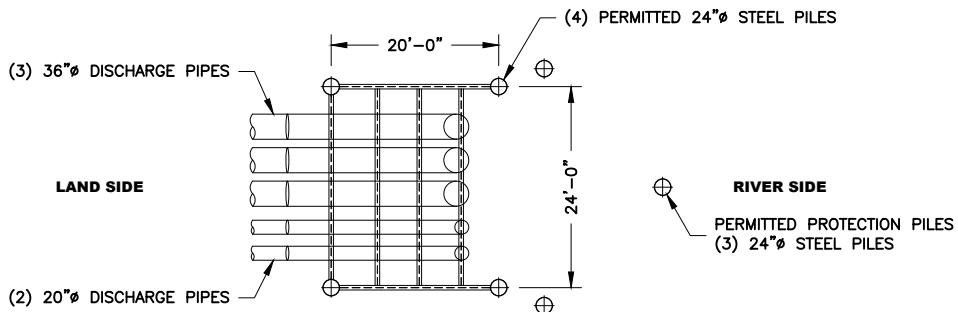


1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 – PHONE: (504)837-3320

PROPOSED NEW MARINE TERMINAL – SITE PLAN

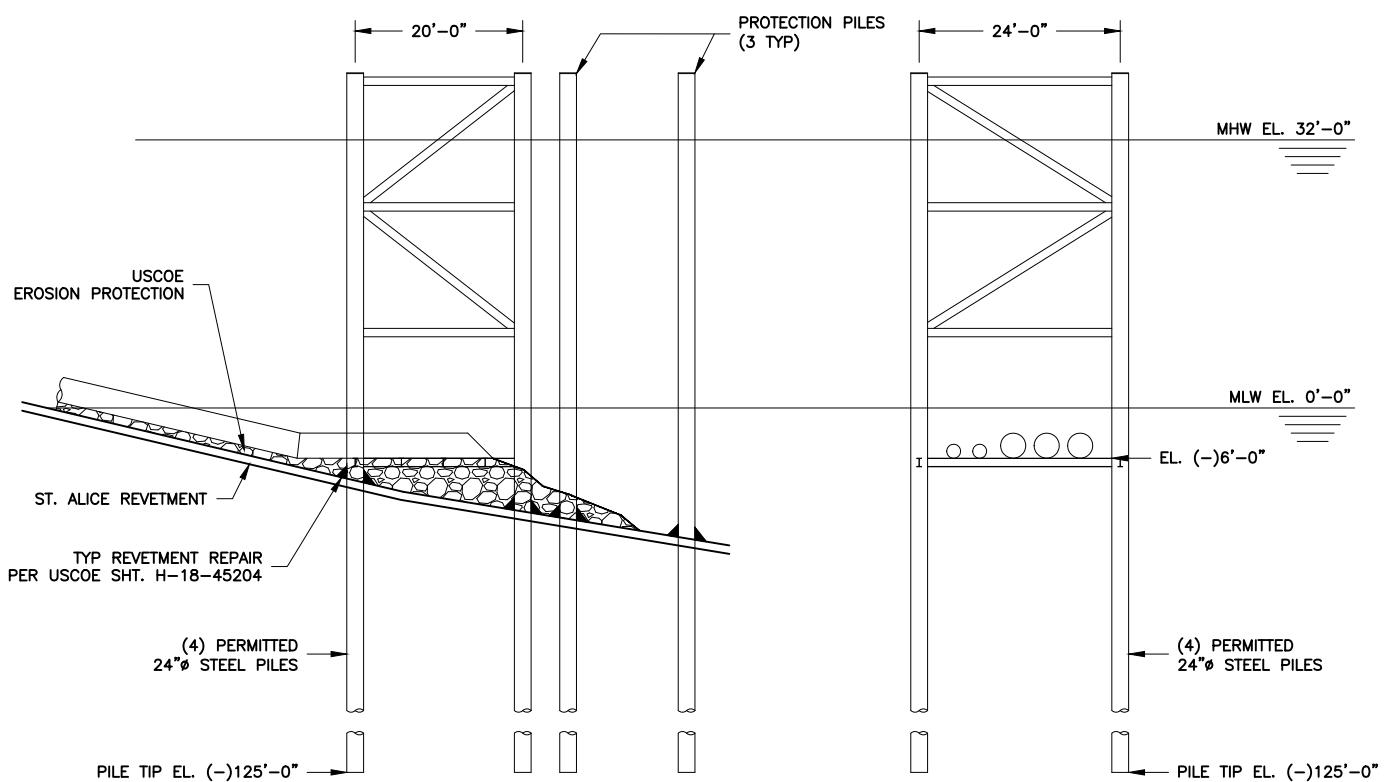
DATE	OCTOBER 20, 2017	SHEET
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PLAN @ PIPE OUTLET EL. (-)6'-0"

SCALE: 1"=20'-0"



WATER DISCHARGE PROTECTION STRUCTURE

SCALE: 1"=20'-0"

PROJECT

FG LA LCC
ST JAMES, LOUISIANA



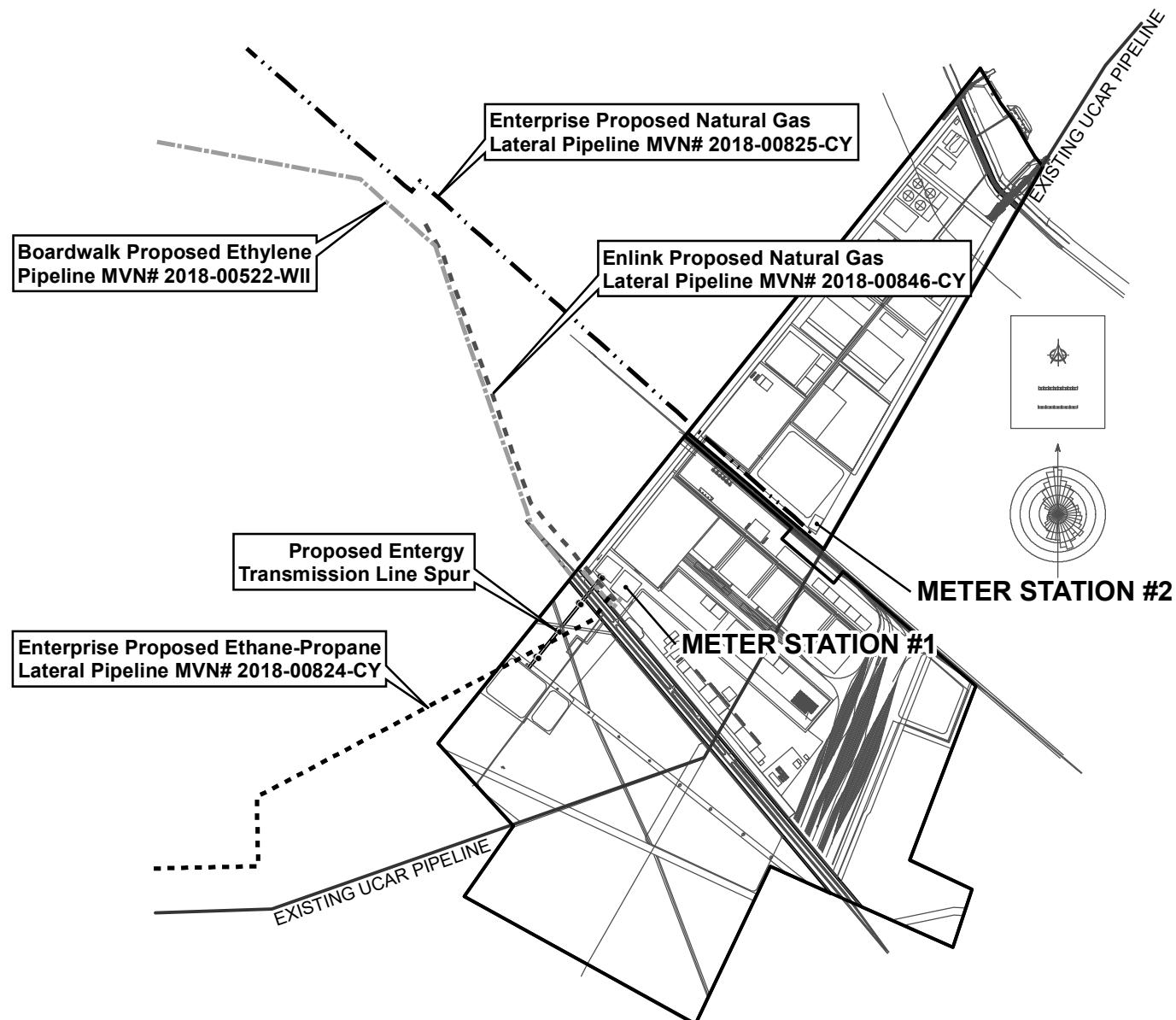
1080 OLD SPANISH TRAIL, STE 14, SLIDELL LOUISIANA 70458 - PHONE: (504)837-3320

PROPOSED NEW MARINE TERMINAL - SITE PLAN

DATE	OCTOBER 20, 2017	SHEET
DRWN CHKD	HNC JHK	REVISION

21 OF 21

1	2	3	4	5																																			
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U. S. ARMY ENGINEER DISTRICT NEW ORLEANS		DESIGN NO. 6-15-98		DATE 6-15-98																																			
NEW OPERATIONS, LOUISIANA		DESIGNER SP21		SCALE 1:200																																			
REPAIR PROCEDURES REQUIRED WHEN PILES, CAISONS AND/OR PILE CLUSTERS CROSS SECTIONS AND REVENEMENT REQUIREMENTS		DESIGNER SP22		DESIGNER SP23																																			
FILE NO. 00-4500		FILE NO. 00-4500		FILE NO. 00-4500																																			
<p>PILE CAISSON (BUOY AND ANCHOR CHAIN)</p>																																							
<p>D</p>	<p>C</p>	<p>B</p>	<p>A</p>																																				
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<p>STONE COVERAGE REQUIRED OVER TOTAL AREA</p>																																							
<p>NOTE:</p> <ol style="list-style-type: none"> 1. SIZE OF RIPRAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40 PERCENT TO 60 PERCENT OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS. 2. WHEN PENETRATING THE UPPER BANK PAVING IN A REVETMENT AREA WITH PILES, CAISONS AND/OR PILE CLUSTERS, A 10 INCH THICK RIPRAP STONE LAYER SHALL BE PLACED OVER ALL AREAS WHERE THE BANK PAVING IS DISTURBED BY DRIVING OPERATIONS. 3. WHEN USING AN ANCHOR CHAIN AND BUOY SYSTEM, THE ANCHOR CHAIN MUST BE ATTACHED AT THE TOP OF THE PILE TO MINIMIZE REVETMENT DAMAGE. 																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT</th> <th colspan="5">DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED</th> </tr> <tr> <th>PILE</th> <th>CAISSON</th> <th>SPUD PILE (BUOY AND ANCHOR CHAIN)</th> <th>PILE CLUSTER</th> <th></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Y</td> <td>X</td> <td>Y</td> <td>X</td> <td>Y</td> </tr> <tr> <td>1' - 10'</td> <td>3</td> <td>1.5</td> <td>5</td> <td>2</td> <td>1</td> </tr> <tr> <td>11' - 40'</td> <td>5</td> <td>2</td> <td>8</td> <td>3</td> <td>6</td> </tr> <tr> <td>41' - 60'</td> <td>8</td> <td>3</td> <td>12</td> <td>4</td> <td>10</td> </tr> </tbody> </table>					DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT	DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED					PILE	CAISSON	SPUD PILE (BUOY AND ANCHOR CHAIN)	PILE CLUSTER		X	Y	X	Y	X	Y	1' - 10'	3	1.5	5	2	1	11' - 40'	5	2	8	3	6	41' - 60'	8	3	12	4	10
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Datum: GCS NAD83 State Plane LA South FIPS 1702 Feet Sources: ESRI- Light Gray Basemap



0 1 2 Kilometers

0 1 2 Miles



FIGURE 1 - Meter Station Locations Overview
MVN-2018-00159-CM

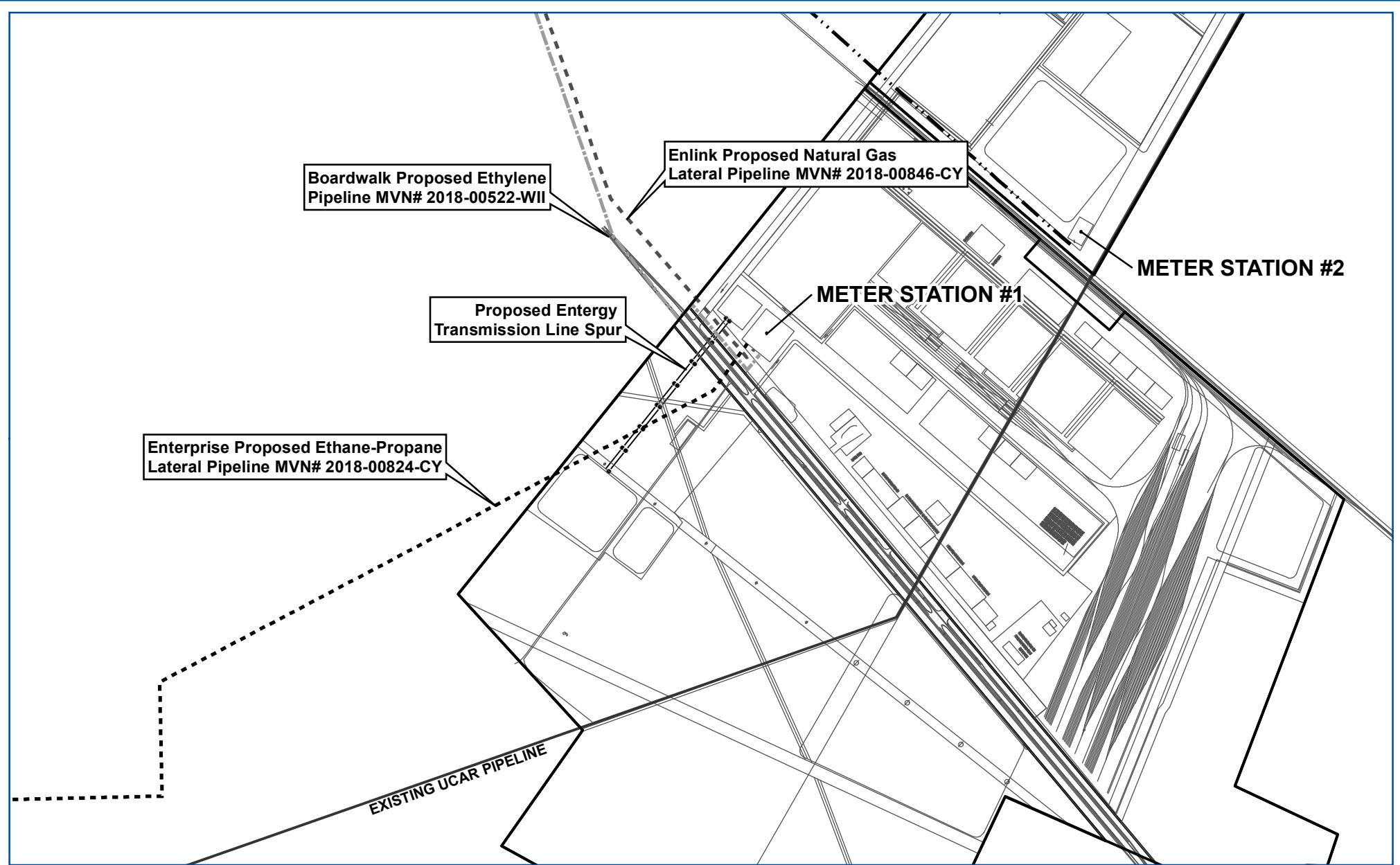
Sunshine Site
FG LA LLC
St. James Parish, Louisiana

Drafted By:
J. Knowles

Reviewed By:
M. Horvath

Project No.:
150005.03.01

Date:
8/9/2018



Datum: GCS NAD83 State Plane LA South FIPS 1702 Feet Sources: ESRI- Light Gray Basemap

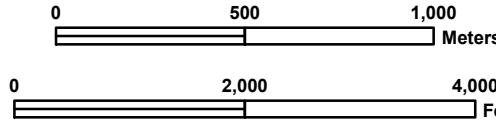


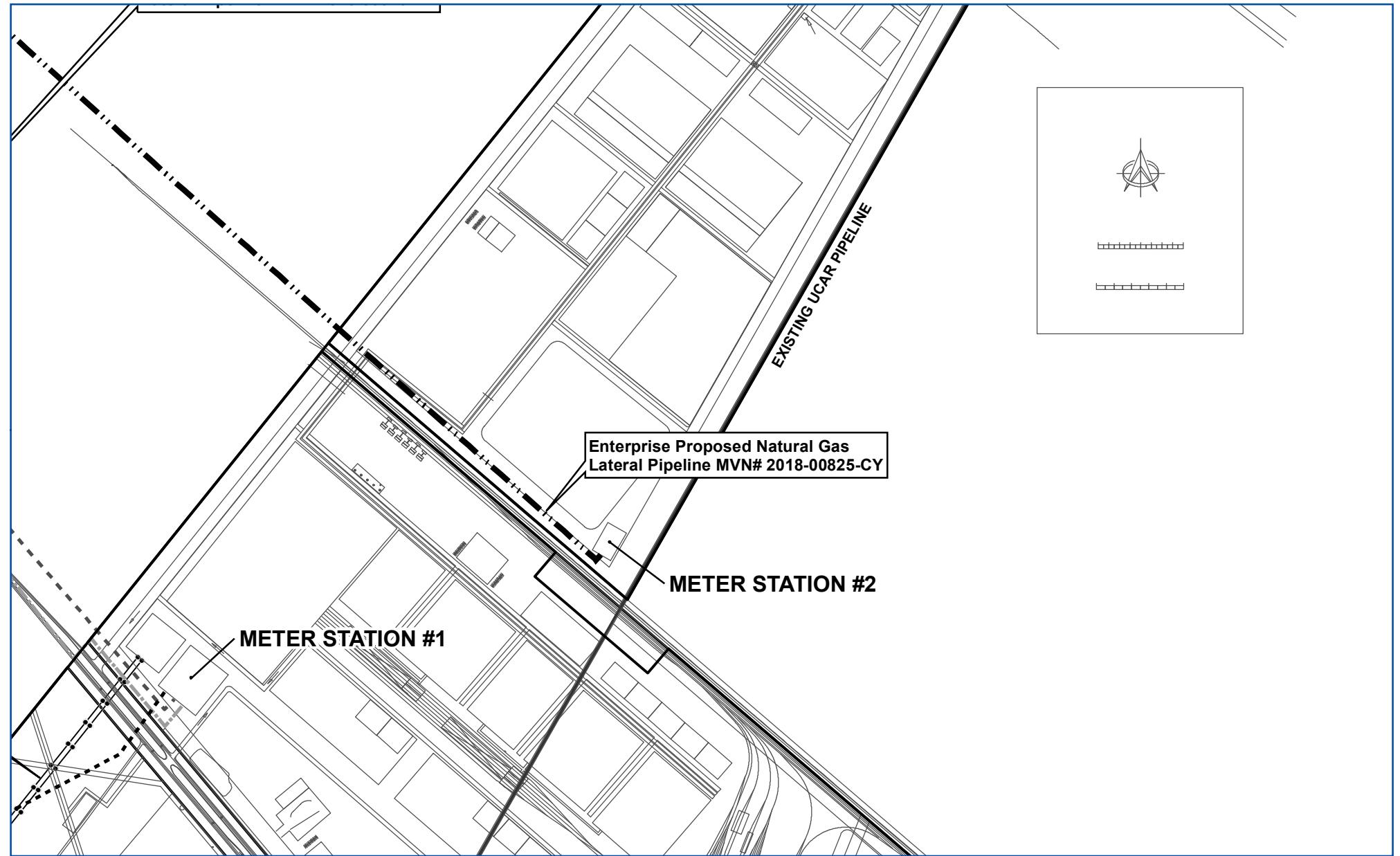
FIGURE 2 - Meter Station #1 Detail
MVN-2018-00159-CM
Sunshine Site
FG LA LLC
St. James Parish, Louisiana

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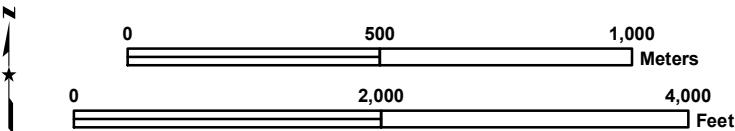


FIGURE 3 - Meter Station 2 Detail
MVN-2018-00159-CM
Sunshine Site
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