

JOINT PUBLIC NOTICE

October 22, 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 2014-00702-CM

State of Louisiana
Department of Environmental Quality
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(225) 219-3225
Project Manager
Elizabeth Hill
WQC Application Number
WQC 181017-02

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, Office of Environmental Services, 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 METHANOL PRODUCTION FACILITY IN ST. JAMES PARISH

NAME OF APPLICANT: South Louisiana Methanol LP, c/o PPM Consultants, Inc., Attn: Tim Powers, 7936 Office Park Boulevard, Suite A, Baton Rouge, Louisiana 70809.

LOCATION OF WORK: On the Mississippi River, RDB, mile 161.5, approximately 0.7 mile south of Romeville, Louisiana, in St. James, Louisiana, in St James Parish, within the Barataria Basin, East-Central Louisiana Coastal, 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 methanol production facility and marine terminal which will include the construction of a barge dock, heavy haul Mississippi River levee and LA Hwy 18 crossing/ramp, barge mooring structures, an effluent discharge line, removal of an existing dock, and dredging. Additionally, the complex will include access roads, administrative buildings, heavy haul roads, two natural gas pipelines, an overhead Entergy power line, underground utilities, and a raised pipe rack crossing LA Hwy 18 and the Mississippi River levee. The proposed project is situated on an approximately 1,273-acre site that has been determined to contain jurisdictional forested and herbaceous wetlands and other waters of the U.S. Approximately 1,114,054.00 cubic yards material will be excavated and placed

back on site, and approximately 666,073.00 cubic yards of gravel, concrete, rock, and earthen fill material will be hauled in and used as fill for the project.

A Preliminary analysis has determined that there are no wetlands on the protected side of the levee within the project area but there are some other waters of the U.S. that will not be impacted. The proposed project would directly impact approximately 0.33 acre of jurisdictional herbaceous batture wetlands and approximately 0.12 acre of jurisdictional forested batture wetlands. Additionally, approximately 0.39 acre of jurisdictional herbaceous batture wetlands will be temporarily impacted by board mats during construction. Approximately 6 acres of Mississippi River waters bottoms will be temporarily impacted by dredging for barge access to the facility. Approximately one acre of the Mississippi River will be impacted by the new dock structure. 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, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and 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.

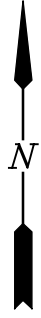
If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not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

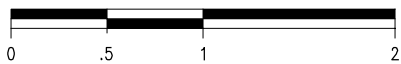
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver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

for JOHN M. HERMAN
 Chief, Central Evaluation Section
 Regulatory Branch

J:\100005\10457-2 SLM PERMIT ASSISTANCE\DRAWINGS\PERMIT DRAWINGS\10457 SLM REVISED MOF PERMIT SUBMITTAL\10457-2-P1.DWG



VICINITY MAP
GRAPHIC SCALE IN MILES



GENERAL NOTES

1. AS-BUILT DRAWINGS AND/OR PLANS 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 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 ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U. S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITEE 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 NGVD88 UNLESS NOTED OTHERWISE.



ST. JAMES PARISH
LATITUDE: 30° 03' 05.82" N
LONGITUDE: 90° 50' 56.55" W

ALBERT R. FAVALORA, PE
LA PE #35134
LANIER AND ASSOCIATES
CONSULTING ENGINEERS, INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P1

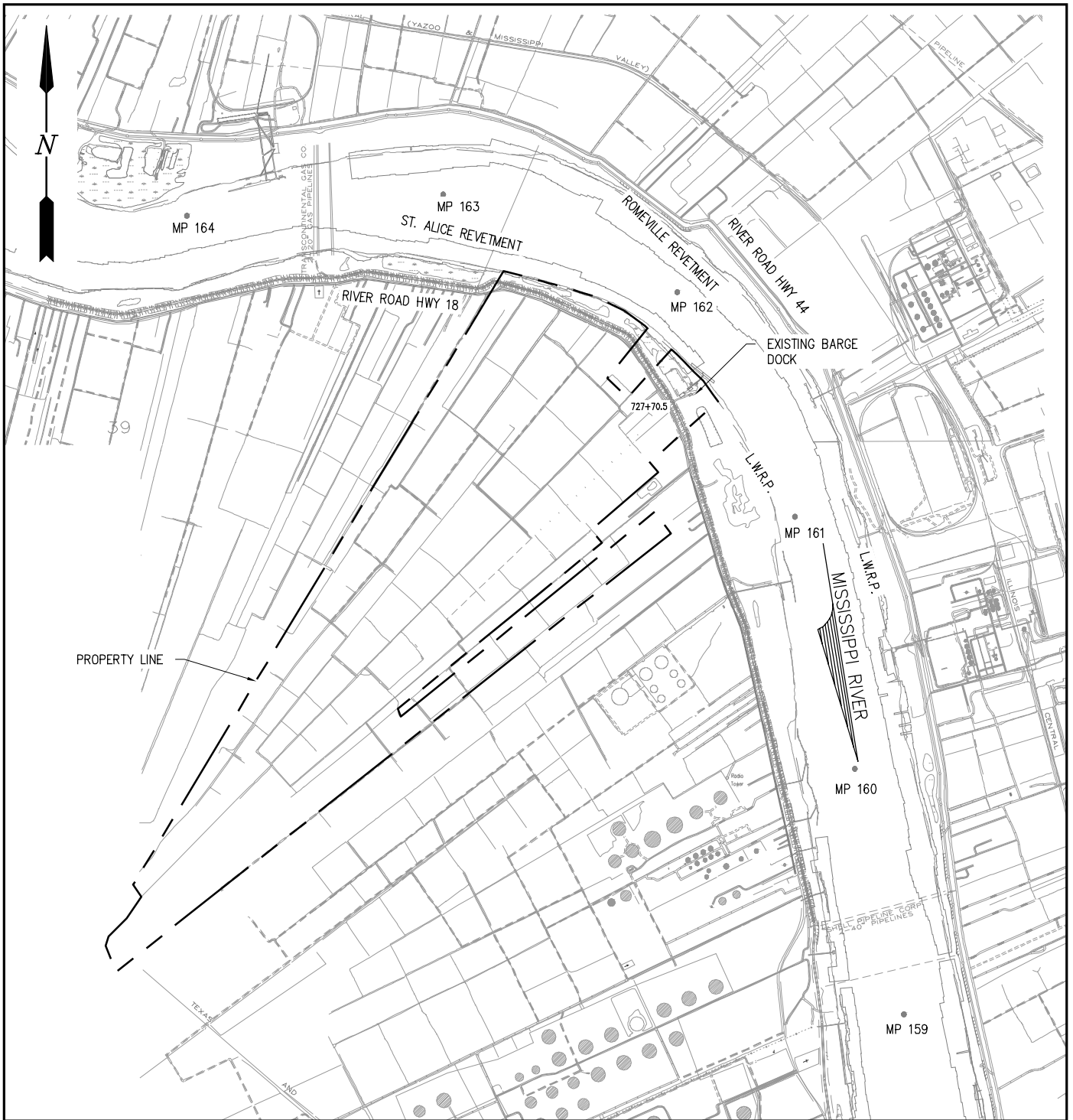
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
VICINITY MAP
AND NOTES

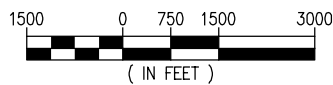
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CONTRACT	10457-2
SHEET No.	
1 OF 38	

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EXISTING SITE PLAN

SCALE: 1" = 3000'



ALBERT R. FAVALORA, PE
 LA PE #35134
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 CONSULTING ENGINEERS, INC.

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10457-2-P2

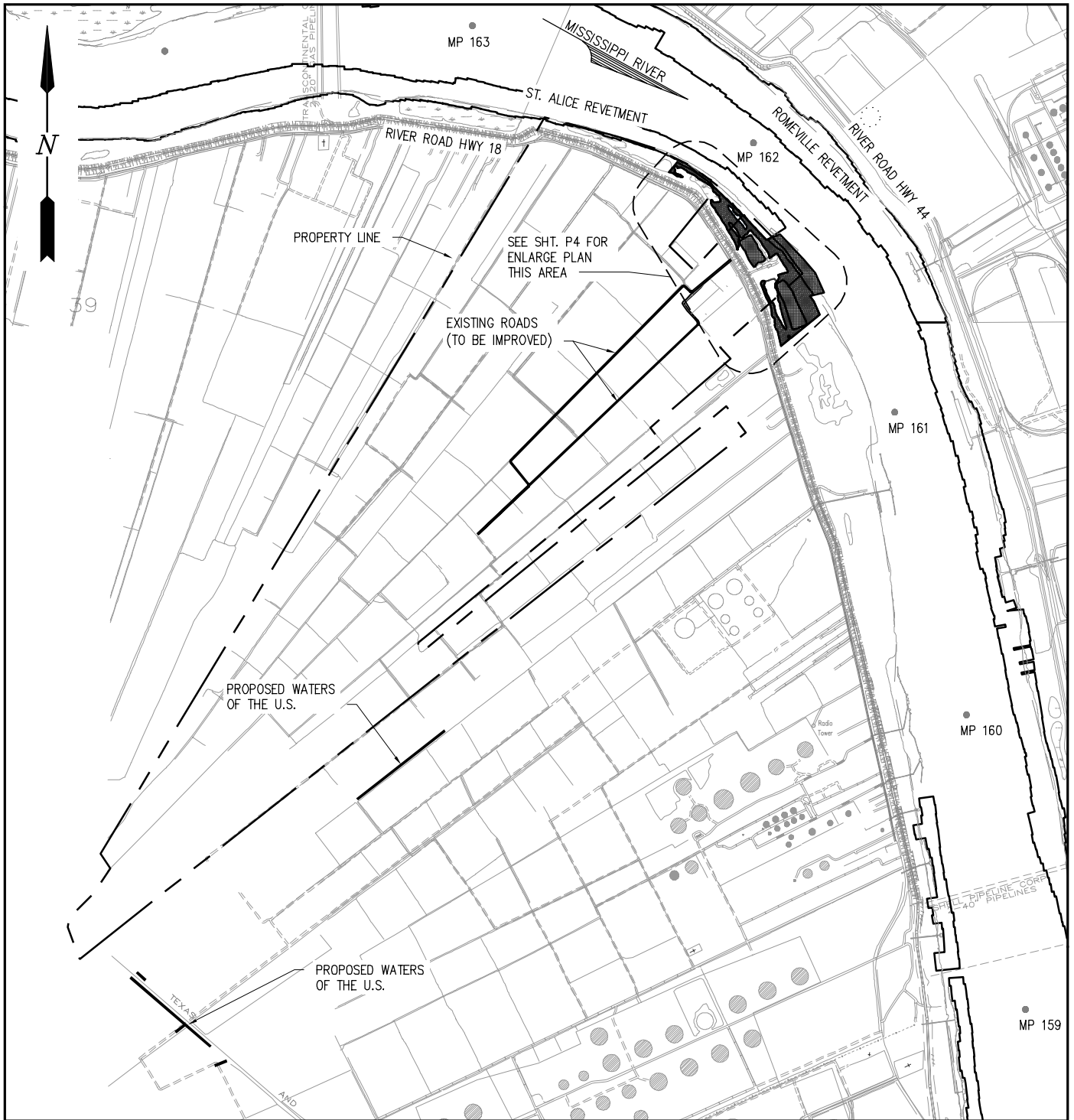
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA



ST JAMES METHANOL FACILITY
EXISTING SITE PLAN

DATE	1 OCT 18
DESIGN	ARF
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CHECK	JEJ
CONTRACT	10457-2
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2 OF 38	

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LEGEND

-  POTENTIAL WETLANDS
-  PROPOSED WATERS OF THE U.S.

EXISTING SITE PLAN – WETLANDS

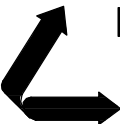
SCALE: 1" = 2500'



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10457-2-P3



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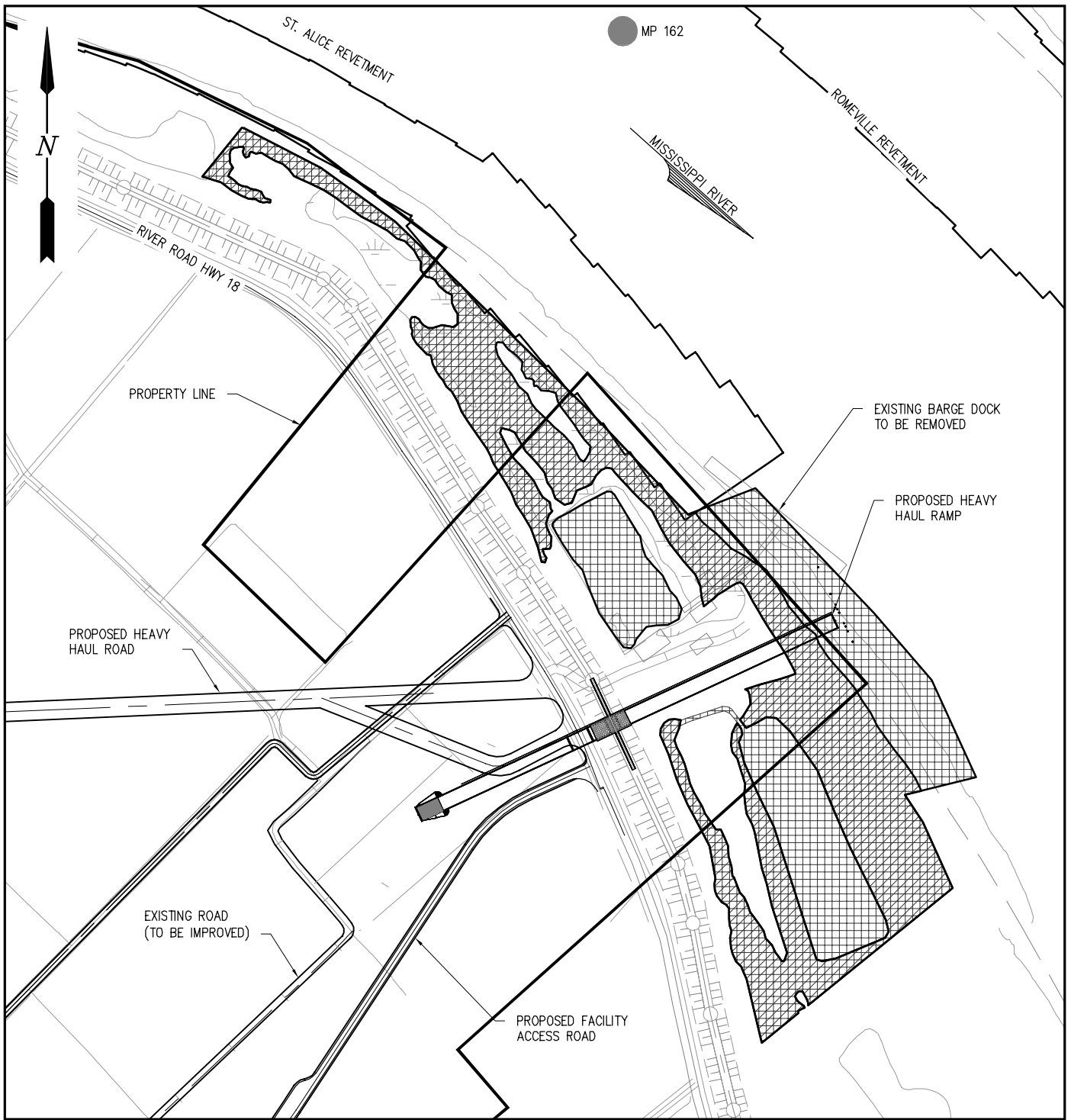
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 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
EXISTING SITE PLAN
WETLANDS



DATE 1 OCT 18
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 CHECK JEJ
 CONTRACT 10457-2
 SHEET No.

3 OF 38

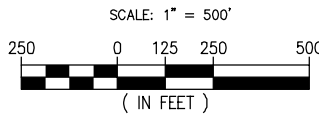
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LEGEND

-  PROPOSED WETLANDS
-  PROPOSED WATERS OF THE U.S.

ENLARGED PLAN - WETLANDS



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 LA PE #35134
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10457-2-P4



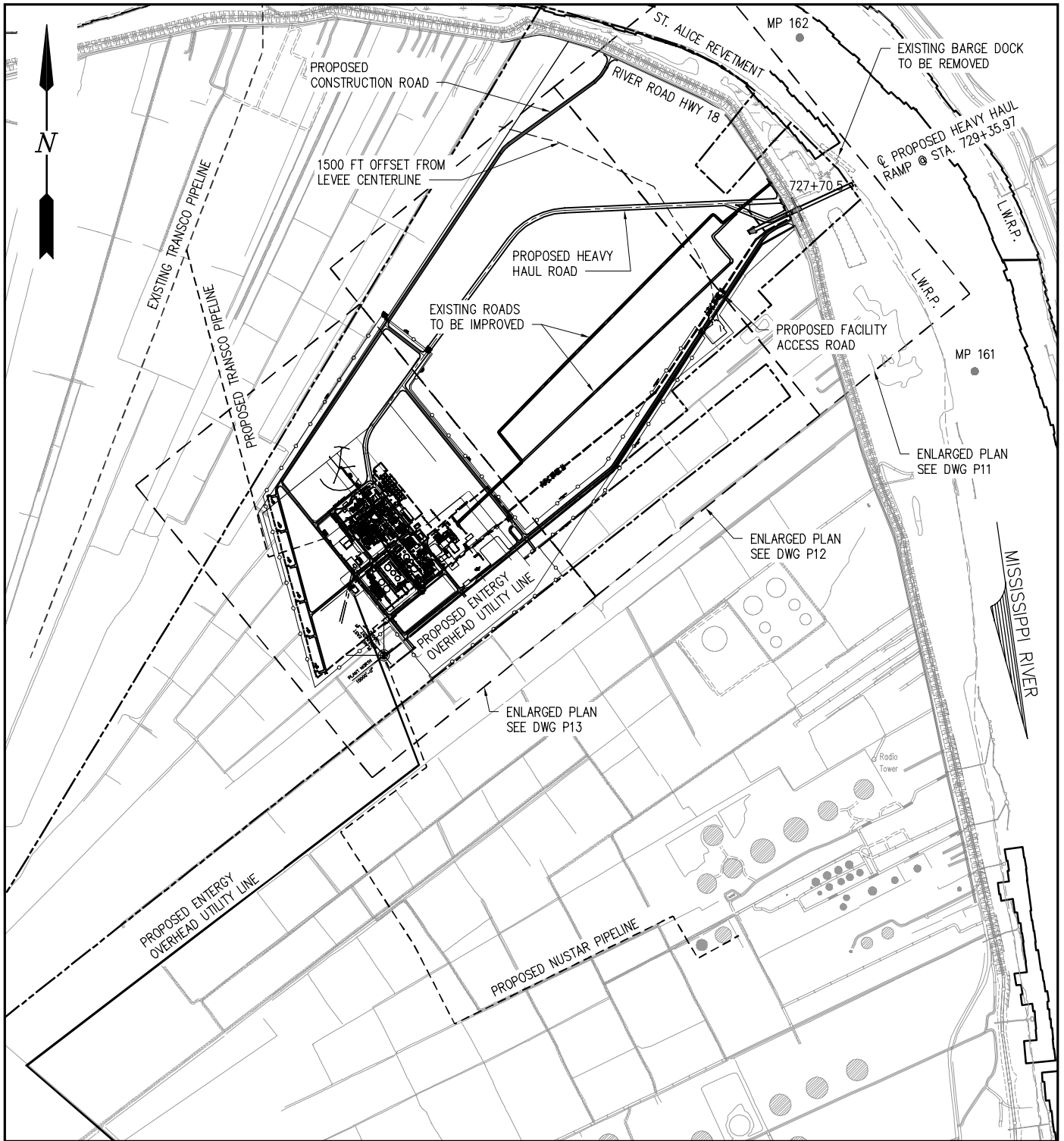
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
ENLARGED PLAN
WETLANDS

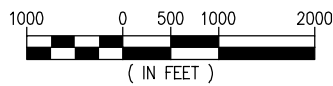
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4 OF 38	

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PROPOSED SITE PLAN

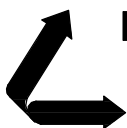
SCALE: 1" = 2000'



ALBERT R. FAVALORA, PE
 LA PE #35134
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10457-2-P5



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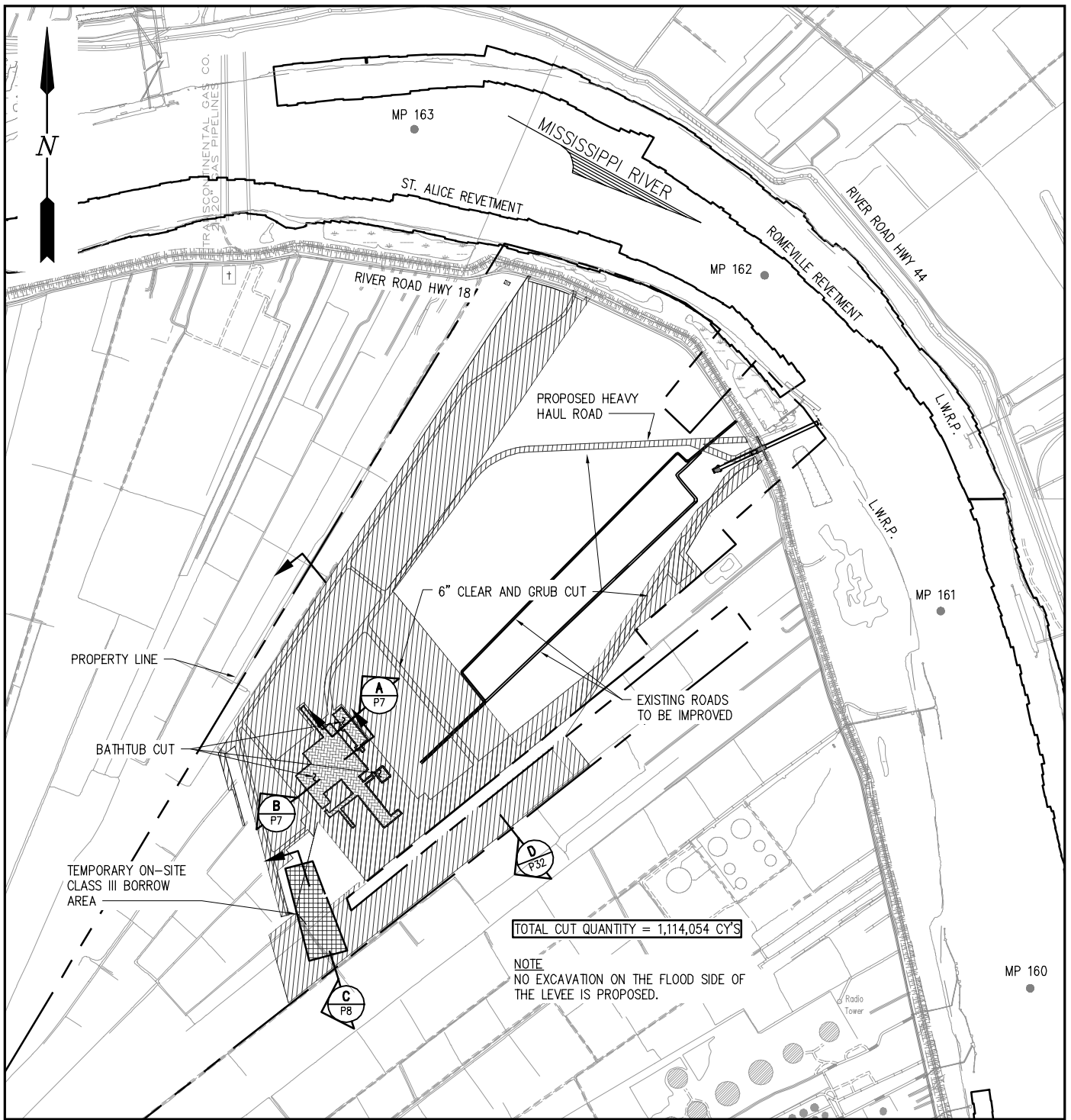
SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

**ST JAMES METHANOL FACILITY
 PROPOSED SITE PLAN**



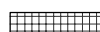
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5 OF 38

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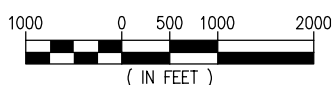


LEGEND

-  CLEAR AND GRUB
-  BATHTUB EXCAVATION
-  BORROW AREA

SITE PLAN - EXCAVATIONS

SCALE: 1" = 2000'

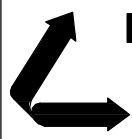


NOTE:
ALL CLEAR AND GRUB SPOILS
TO REMAIN ON-SITE.

ALBERT R. FAVALORA, PE
LA PE #35134
LANIER AND ASSOCIATES
CONSULTING ENGINEERS, INC.

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10457-2-P6



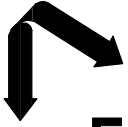
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
SITE PLAN
EXCAVATIONS

DATE 1 OCT 18
DESIGN ARF
DRAWN MEW
CHECK JEJ
CONTRACT 10457-2
SHEET No.

6 OF 38



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 INCORPORATED
 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX
 LA: C-1120

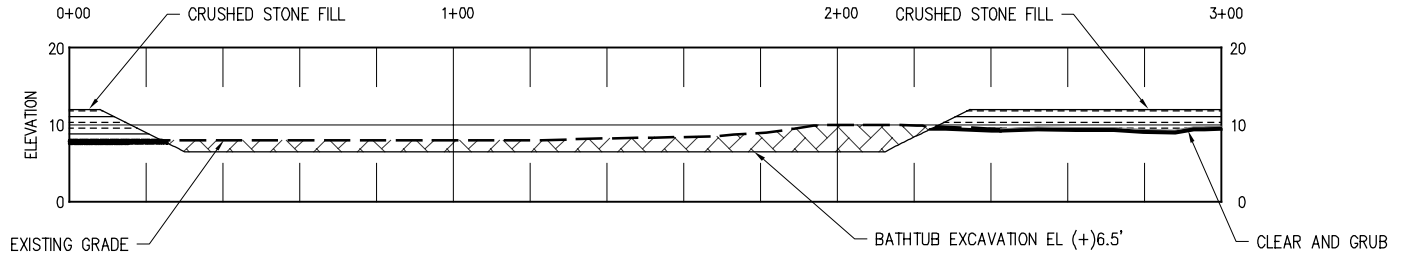
SOUTH LOUISIANA METHANOL, LP
 LOUISIANA
ST JAMES METHANOL FACILITY
BATHTUB EXCAVATION SECTIONS
 ST JAMES

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **7** OF **38**

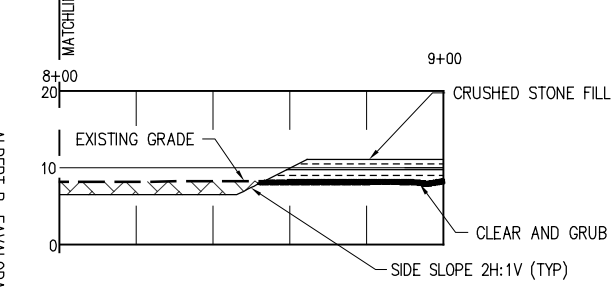
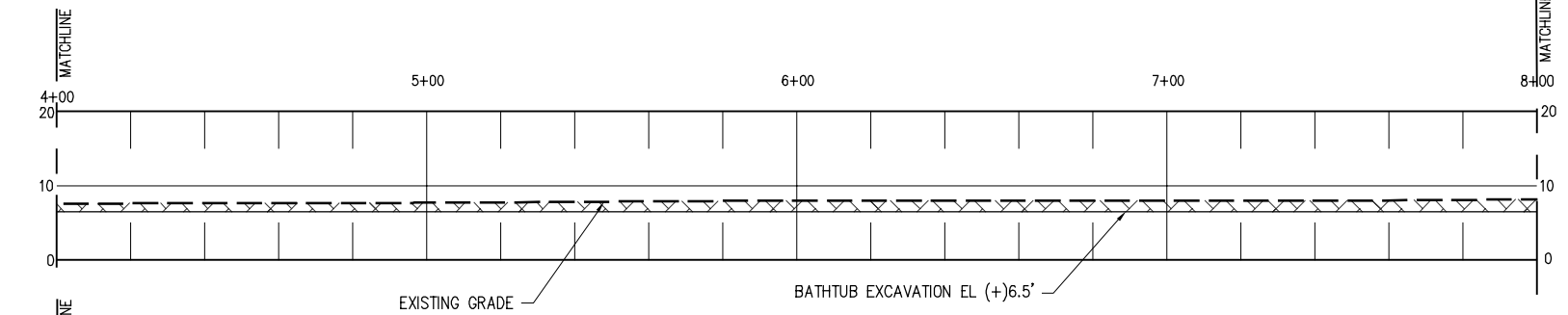
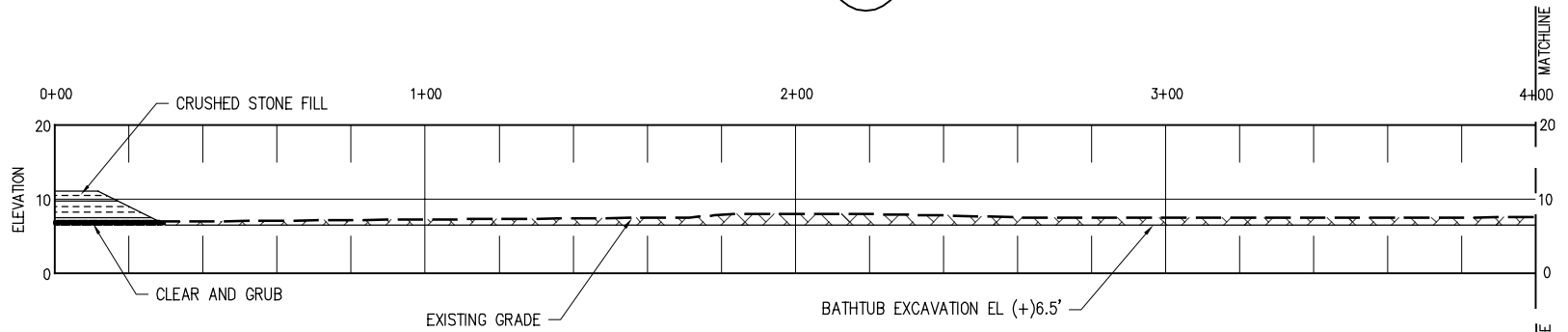
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 LA PE #35134
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10457-2-P7



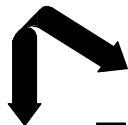
SECTION A
 SCALE: 1" = 50'



SECTION B
 SCALE: 1" = 50'



- LEGEND**
- CLEAR AND GRUB
 - BATHTUB EXCAVATION
 - CRUSHED STONE FILL



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 LA: C-1120 F-2981
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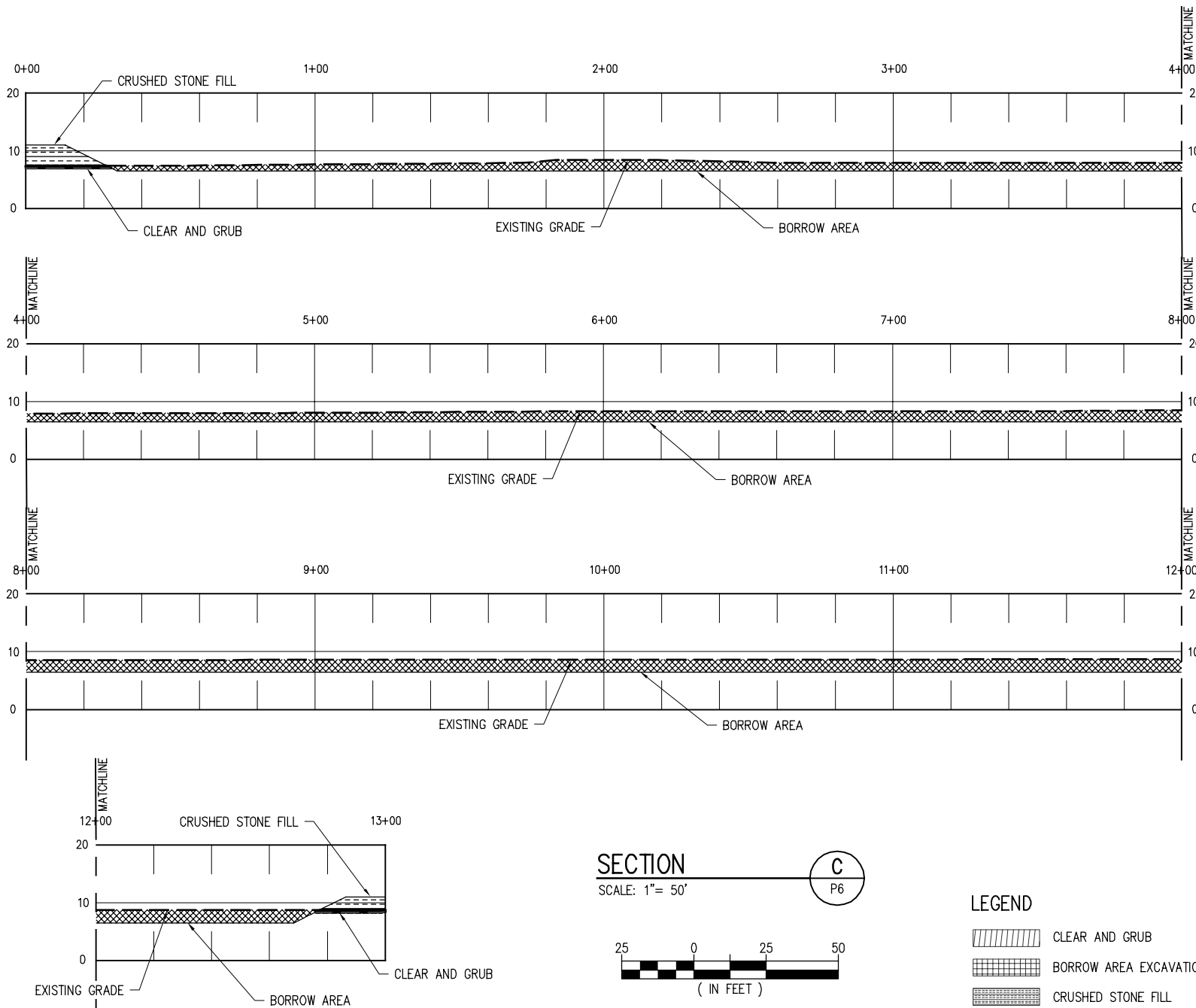
ST JAMES
 SOUTH LOUISIANA METHANOL, LP
 LOUISIANA
ST JAMES METHANOL FACILITY
 BURROW PIT EXCAVATION
 SECTION

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JJJ
 CONTRACT: 10457-2
 SHEET No. **8** OF **38**

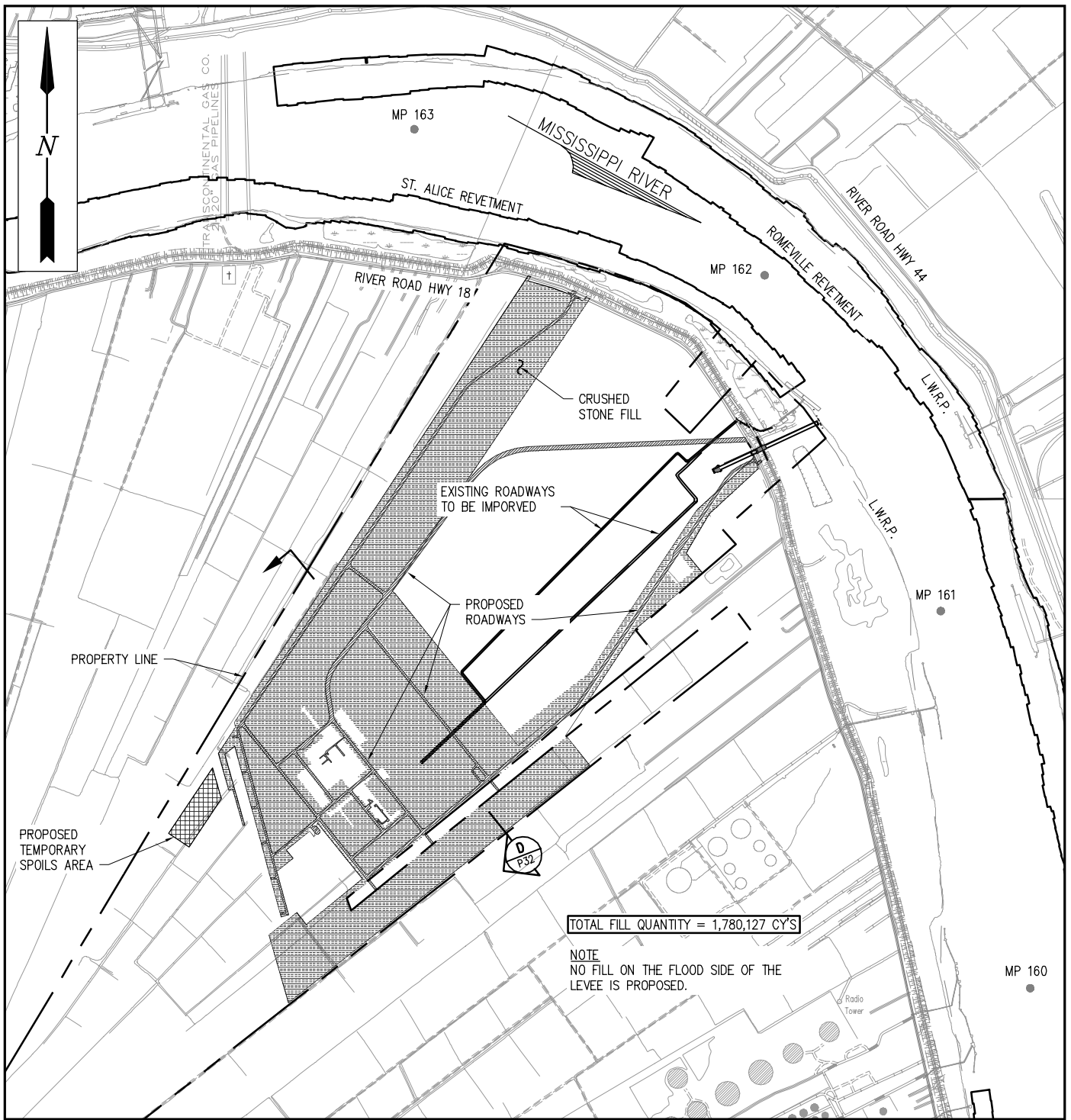
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10457-2-P8

ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.



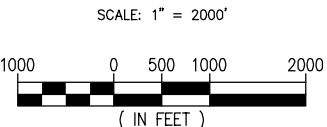
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LEGEND

	ROAD FILL
	ON-SITE SPOILS
	CRUSHED STONE FILL

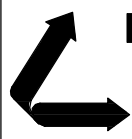
SITE PLAN - FILL



ALBERT R. FAVALORA, PE
LA PE #35134
LANIER AND ASSOCIATES
CONSULTING ENGINEERS, INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P9



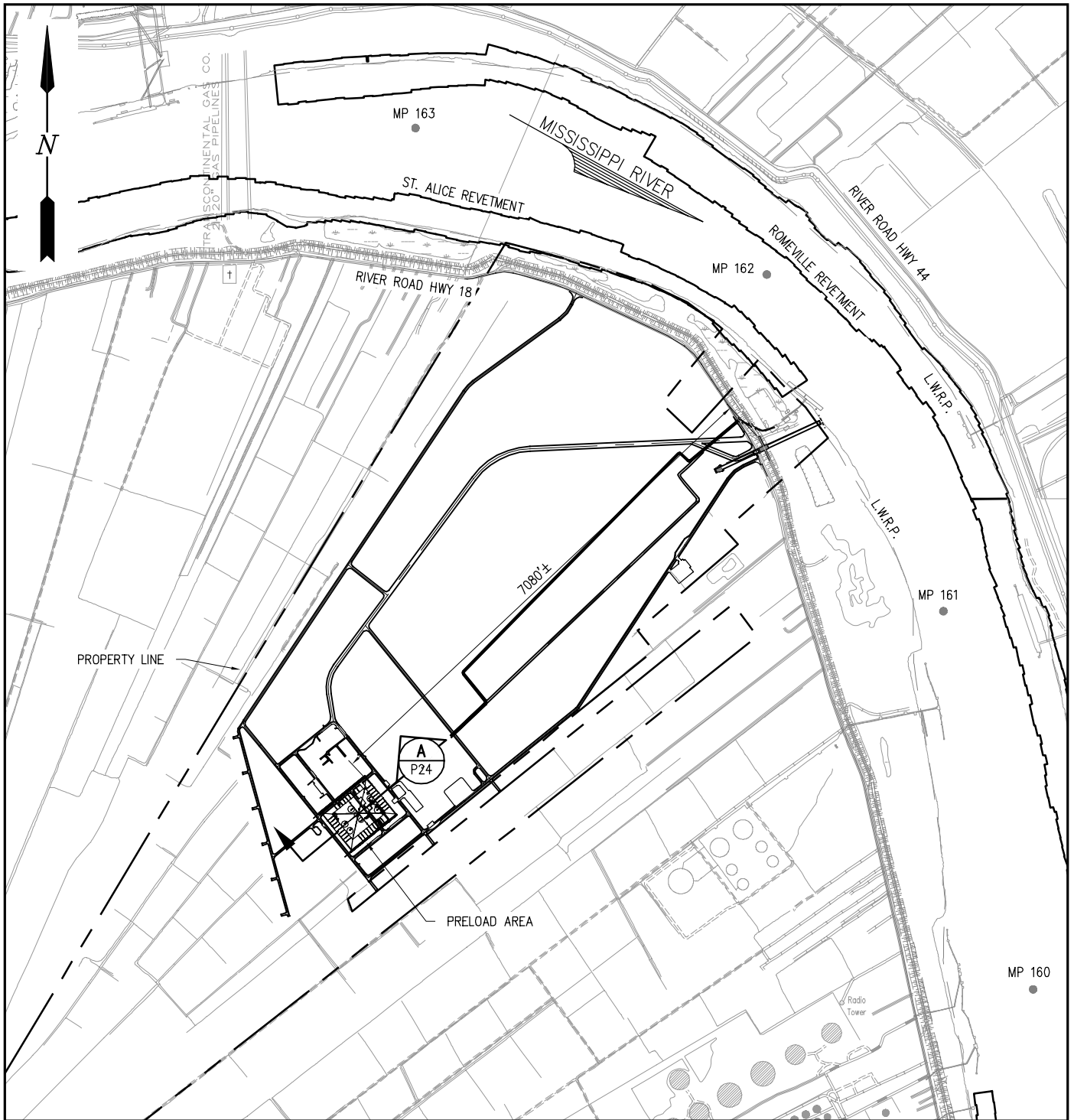
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
SITE PLAN
FILL

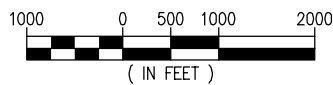
DATE	1 OCT 18
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SHEET No.	
9	OF 38

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SITE PLAN – WICKS & PRELOAD

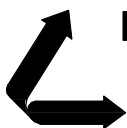
SCALE: 1" = 2000'



ALBERT R. FAVALORA, PE
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 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P10



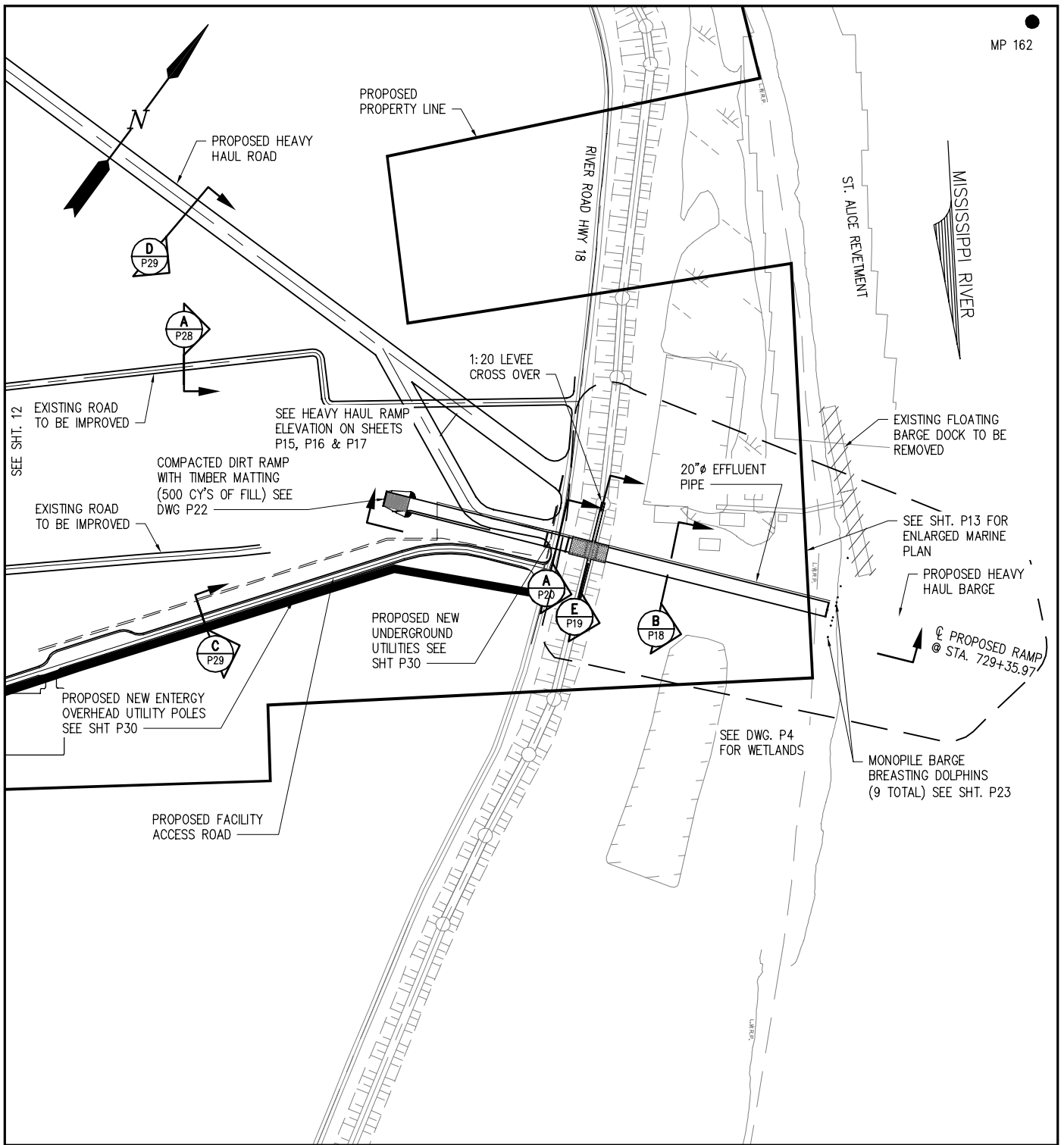
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
SITE PLAN
WICK DRAINS & PRELOAD

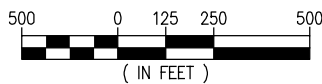
DATE 1 OCT 18
 DESIGN ARF
 DRAWN MEW
 CHECK JEJ
 CONTRACT 10457-2
 SHEET No.

10 OF 38



ENLARGED SITE PLAN - PROPOSED HEAVY HAUL RAMP

SCALE: 1" = 500'



ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P11

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

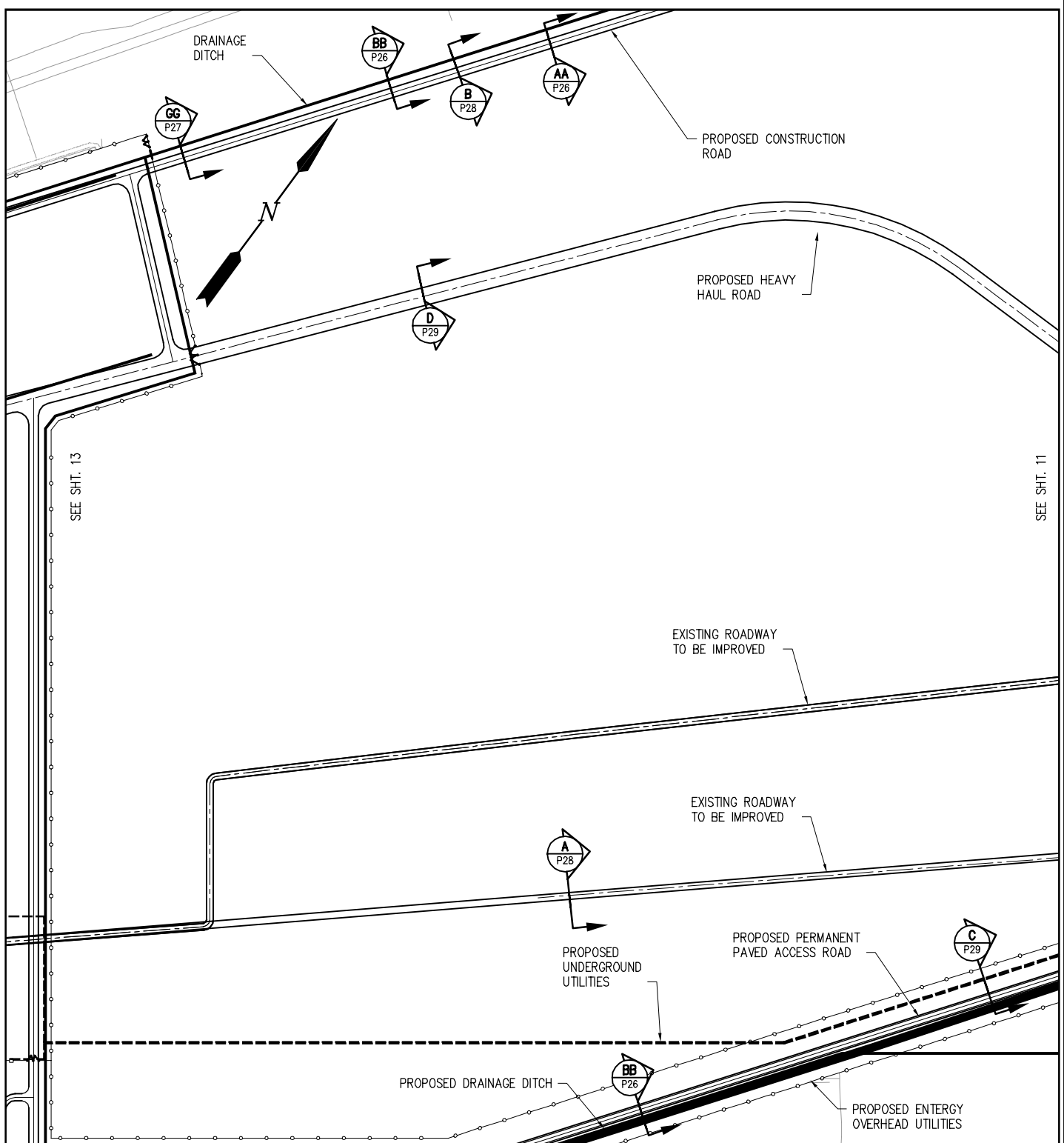
SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
ENLARGED SITE PLAN
PROPOSED HEAVY HAUL RAMP

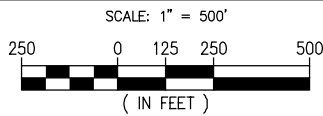
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DRAWN	MEW
CHECK	JEJ
CONTRACT	10457-2
SHEET No.	
11	OF 38

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J:\100005\10457-2 SLM PERMIT ASSISTANCE\DRAWINGS\PERMIT DRAWINGS\10457 SLM REVISED MOF PERMIT SUBMITTAL\10457-2-P12.DWG



ENLARGED SITE PLAN - PROPOSED PLANT ENTRANCE



ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
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10457-2-P12

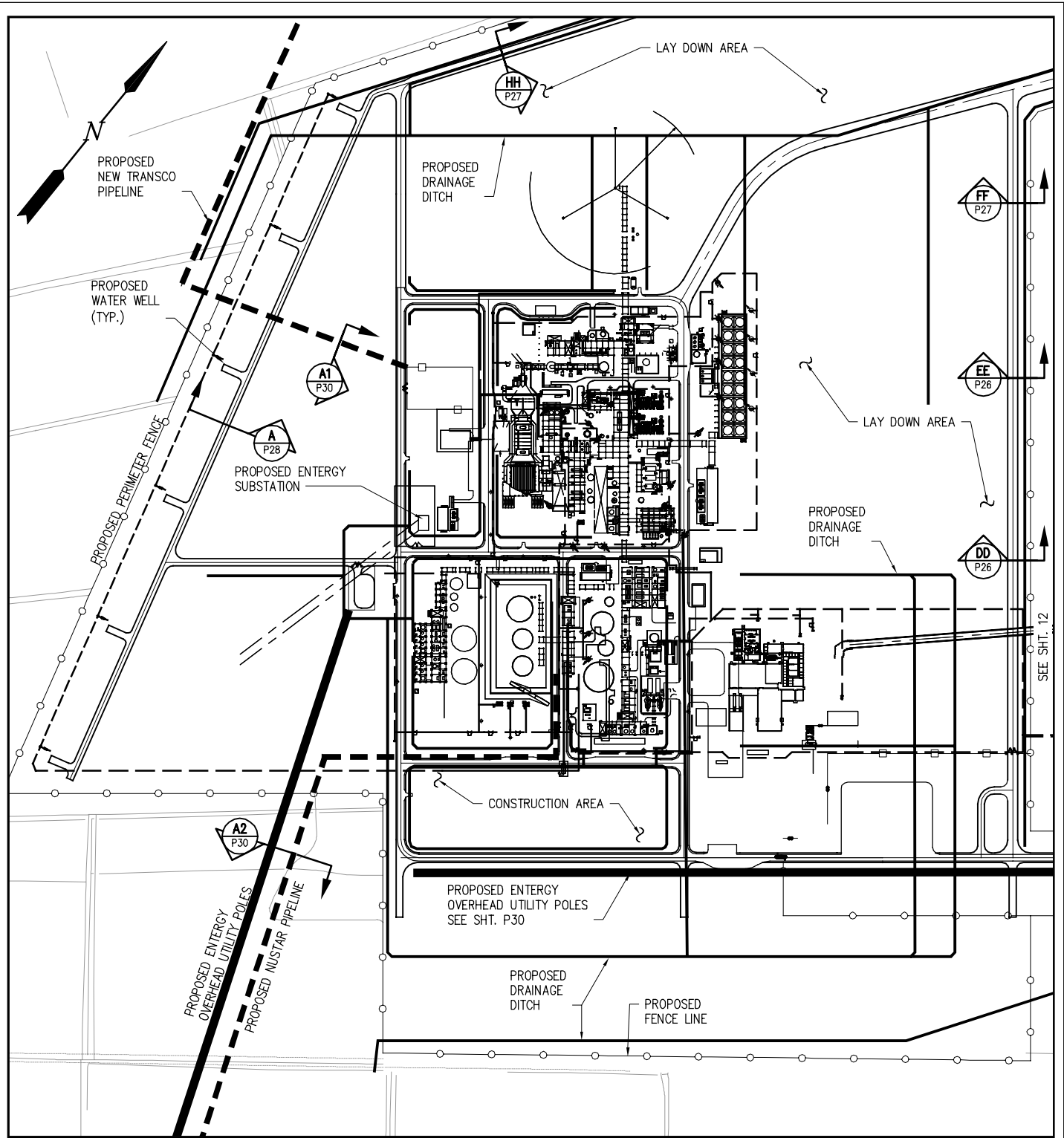
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
ENLARGED SITE PLAN
PROPOSED PLANT ENTRANCE

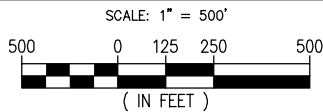
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CONTRACT	10457-2
SHEET No.	12 OF 38

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ENLARGED SITE PLAN – PROPOSED PLANT EQUIPMENT

NOTE:
SEE SHEET P25 FOR FOUNDATION PLAN.



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LA PE #35134
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10457-2-P13

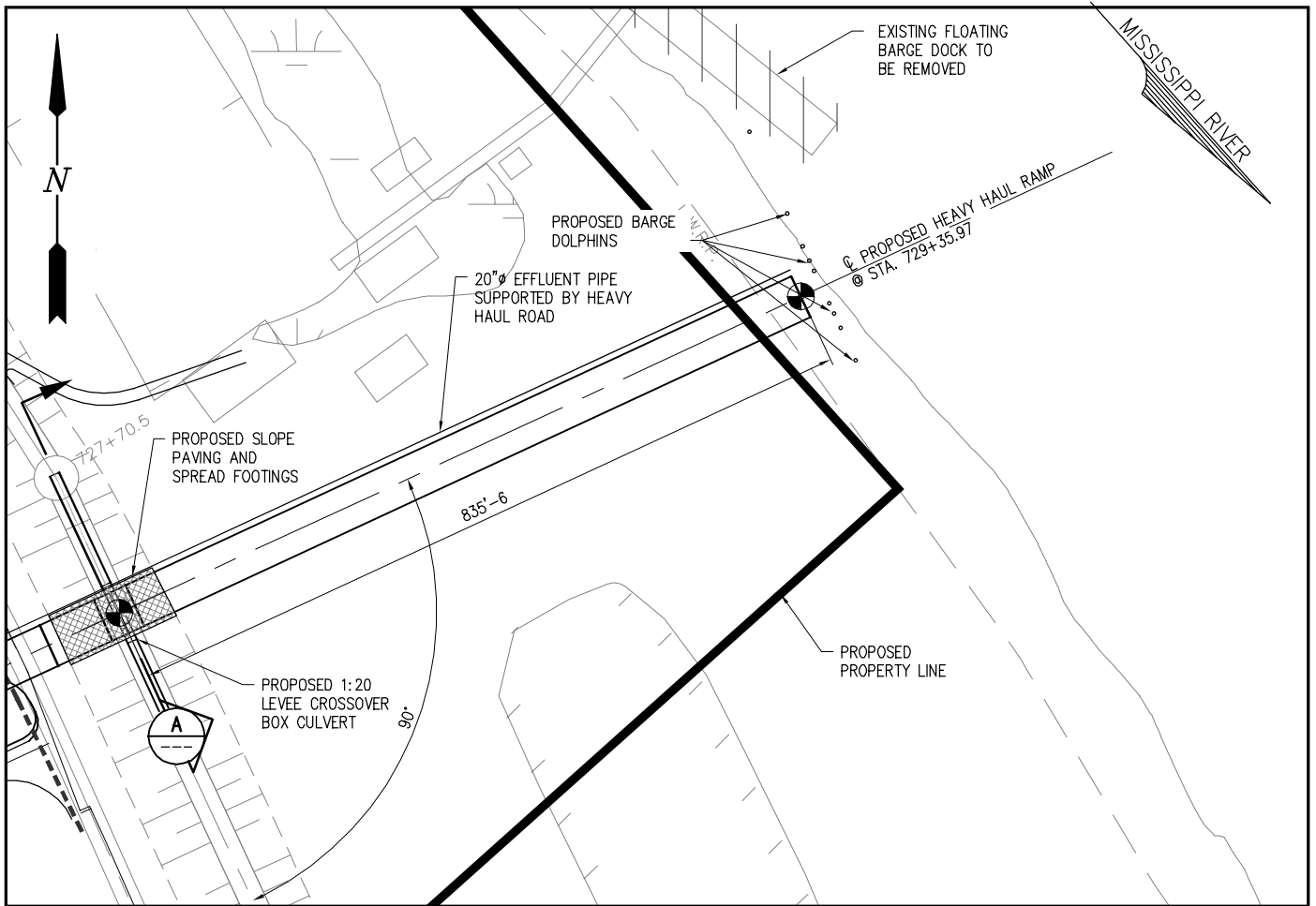
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
ENLARGED SITE PLAN
PROPOSED PLANT EQUIPMENT

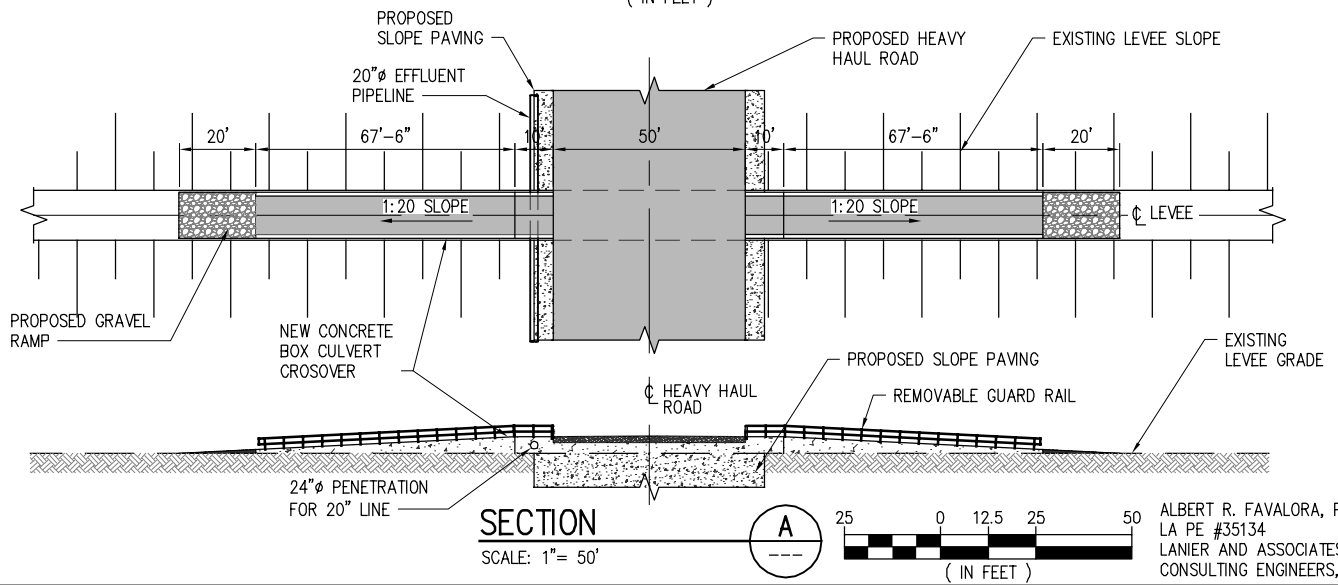
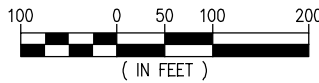
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CONTRACT	10457-2
SHEET No.	13 OF 38

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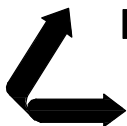
ENLARGED MARINE PLAN

SCALE: 1" = 200'



PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P14



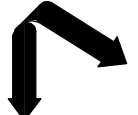
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

**ST JAMES METHANOL FACILITY
ENLARGED MARINE PLAN
ENLARGED MARINE SIDE PLAN**

DATE 1 OCT 18
DESIGN ARF
DRAWN MEW
CHECK JEJ
CONTRACT 10457-2
SHEET No.

14 OF 38



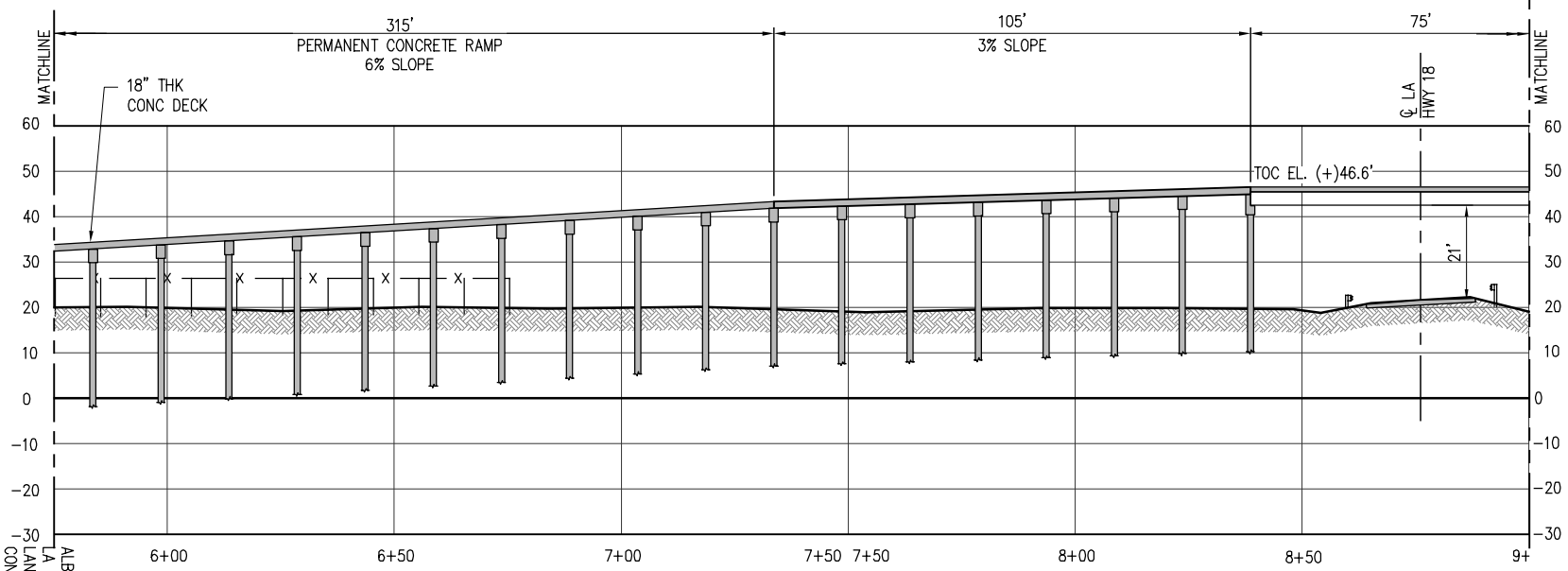
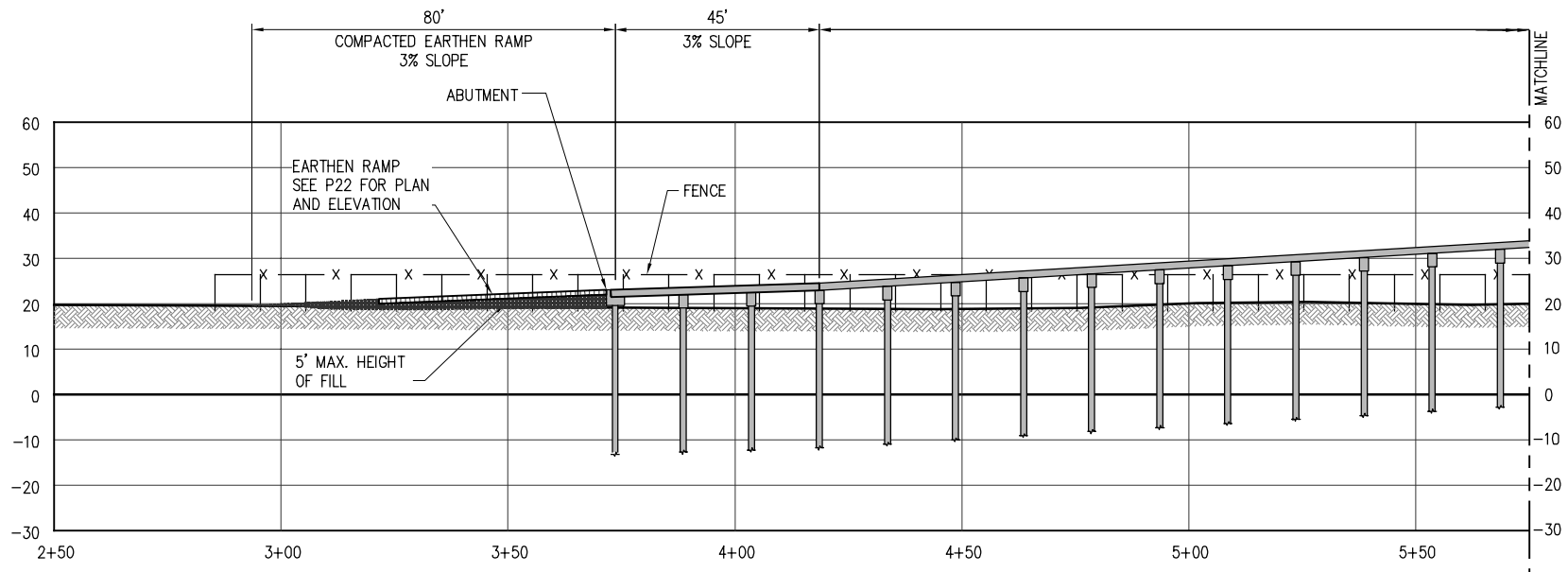
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
F-2981
NEW ORLEANS, LA · BEAUMONT, TX

ST JAMES
SOUTH LOUISIANA METHANOL, LP
LOUISIANA

ST JAMES METHANOL FACILITY
ELEVATION HEAVY HAUL ROAD
STATIONS 2+50 TO 9+00

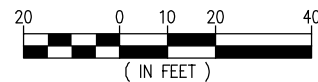
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DRAWN: MEW
CHECK: JEJ
CONTRACT: 10457-2
SHEET No. **15** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY



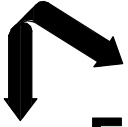
ELEVATION HEAVY HAUL ROAD

SCALE: 1" = 40'



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LA PE #35134
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10457-2-P15



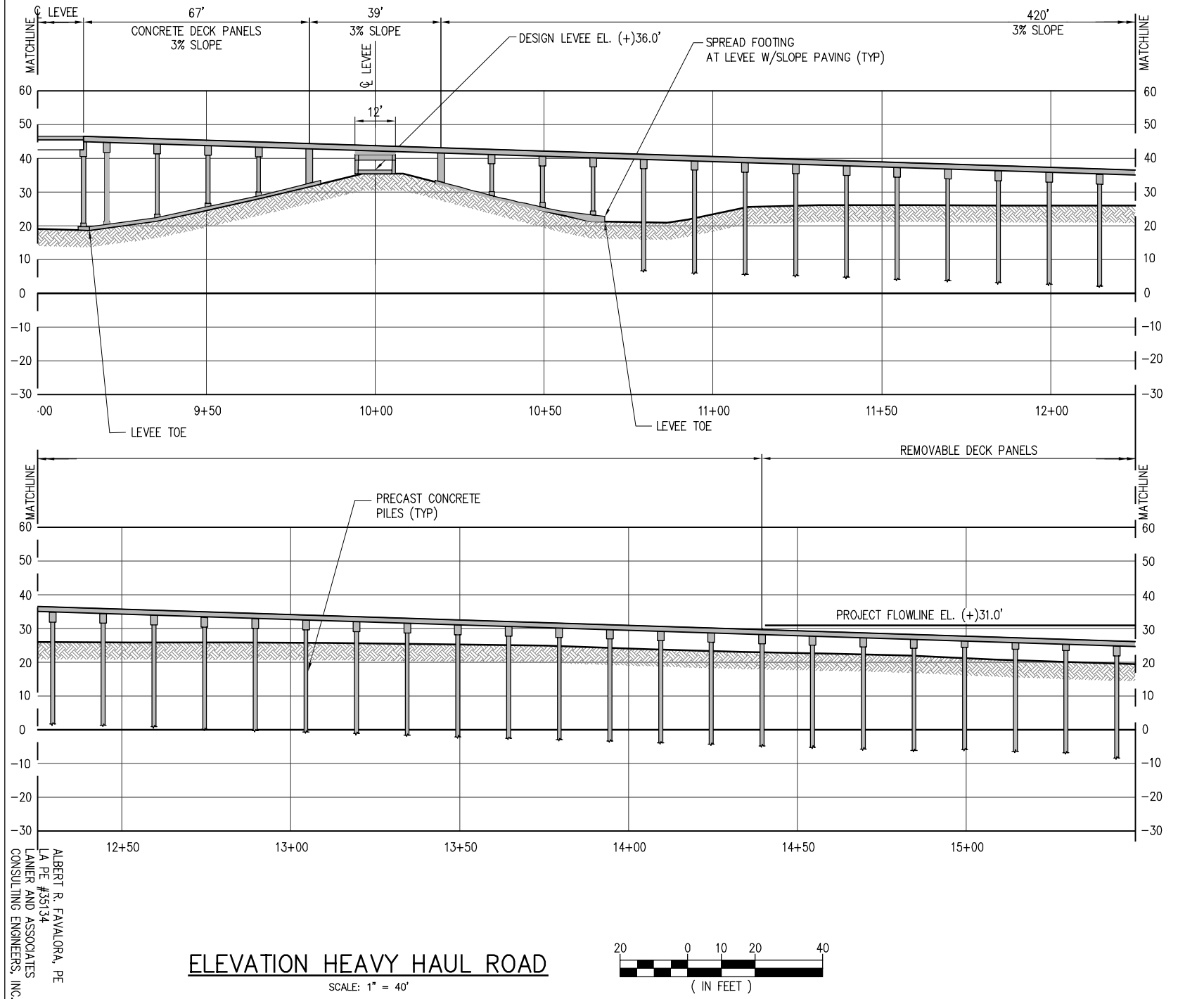
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120
 NEW ORLEANS, LA · BEAUMONT, TX
 F-2981

ST JAMES
SOUTH LOUISIANA METHANOL, LP
 LOUISIANA
ST JAMES METHANOL FACILITY
ELEVATION HEAVY HAUL ROAD
STATIONS 9+00 TO 15+50

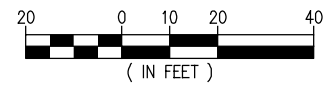
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 CONTRACT: 10457-2
 SHEET No.:
16 OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

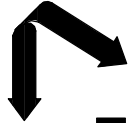
10457-2-P16



ELEVATION HEAVY HAUL ROAD
 SCALE: 1" = 40'



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ST JAMES
SOUTH LOUISIANA METHANOL, LP
LOUISIANA

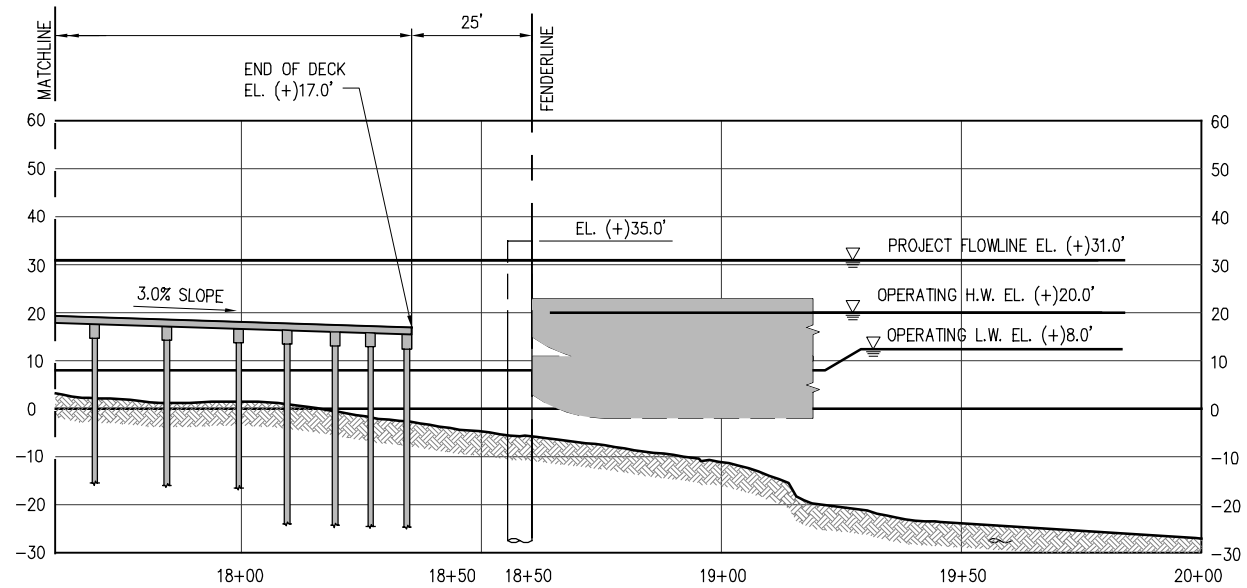
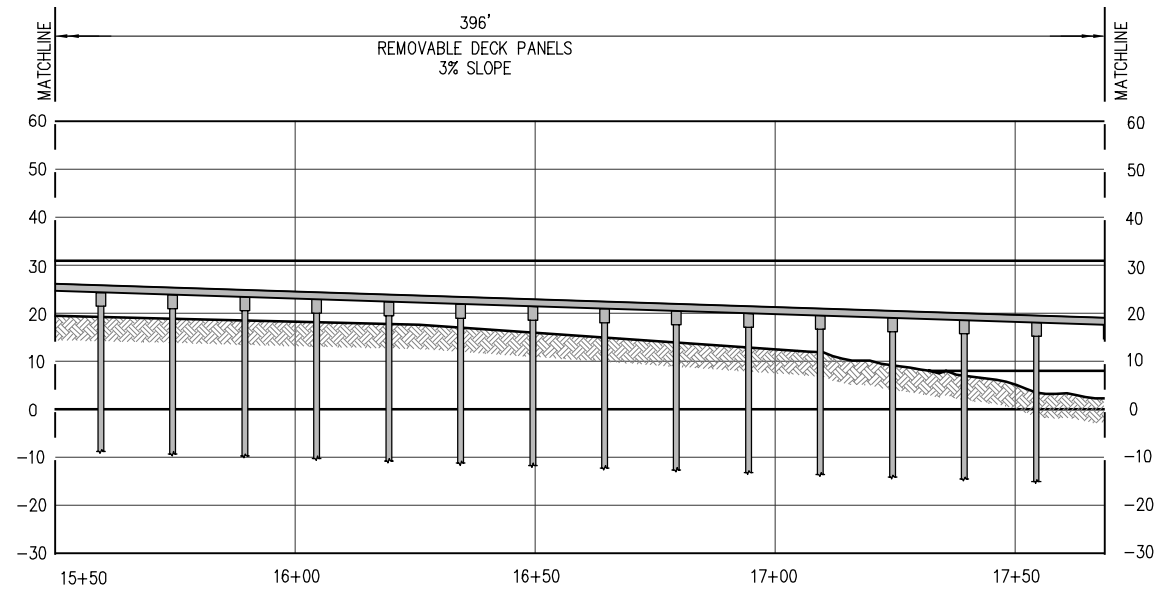
ST JAMES METHANOL FACILITY
ELEVATION HEAVY HAUL ROAD
STATIONS 15+50 TO 21+50

DATE: 1 OCT 18
DESIGN: ARE
DRAWN: MEW
CHECK: JEL
CONTRACT: 10457-2
SHEET No. **17** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

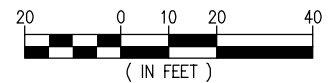
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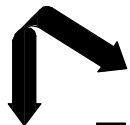
ALBERT R. FAVALORA, PE
LA PE #35134
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CONSULTING ENGINEERS, INC.



ELEVATION HEAVY HAUL ROAD

SCALE: 1" = 40'





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 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX

ST JAMES
SOUTH LOUISIANA METHANOL, LP
 LOUISIANA

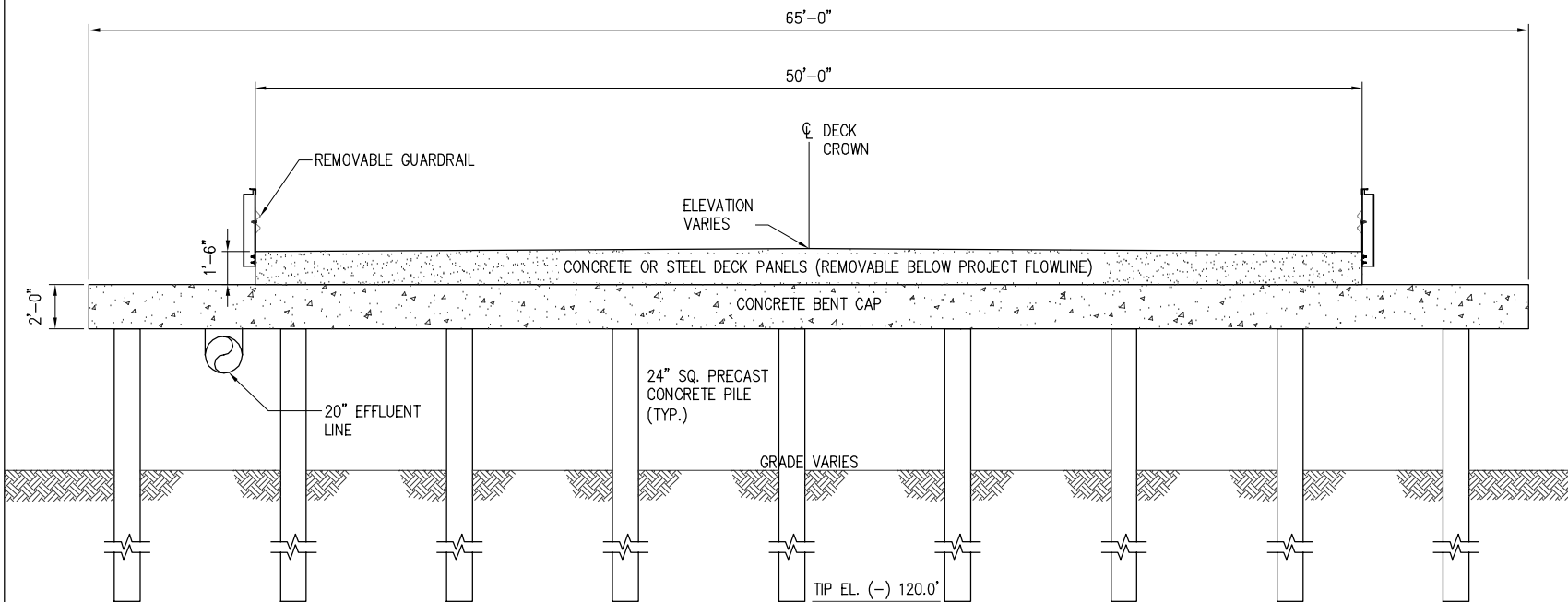
ST JAMES METHANOL FACILITY
HEAVY HAUL ROAD
TYPICAL PILE BENT SECTION

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEL
 CONTRACT: 10457-2
 SHEET No. **18** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P18

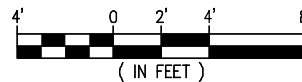
ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.

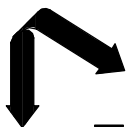


TYPICAL PILE BENT SECTION

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

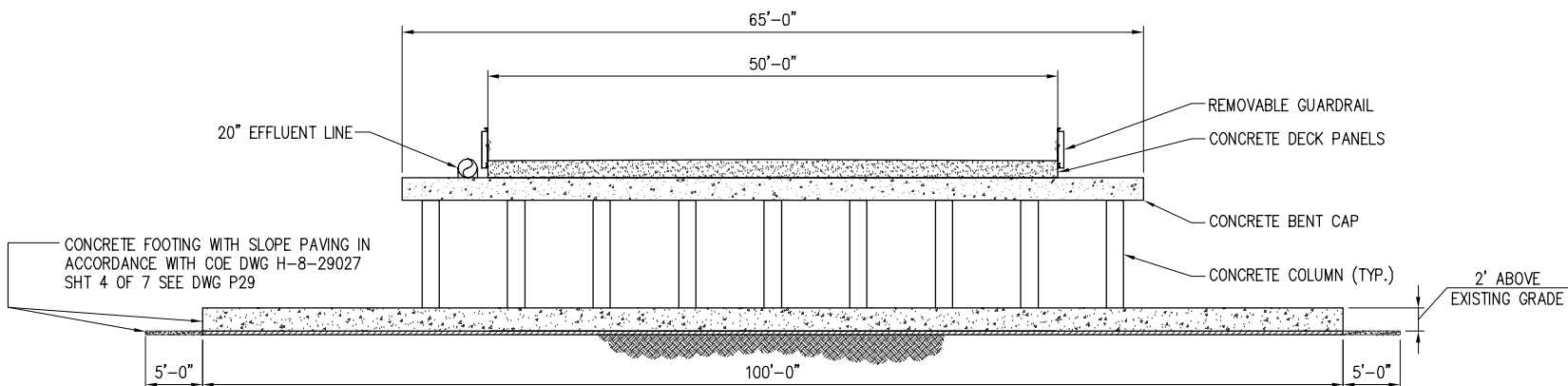
B
 P11





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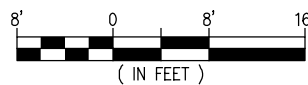
PRELIMINARY - FOR PERMIT PURPOSES ONLY



TYPICAL SPREAD FOOTING BENT SECTION

SCALE: 1/16" = 1'

E
P11



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 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.

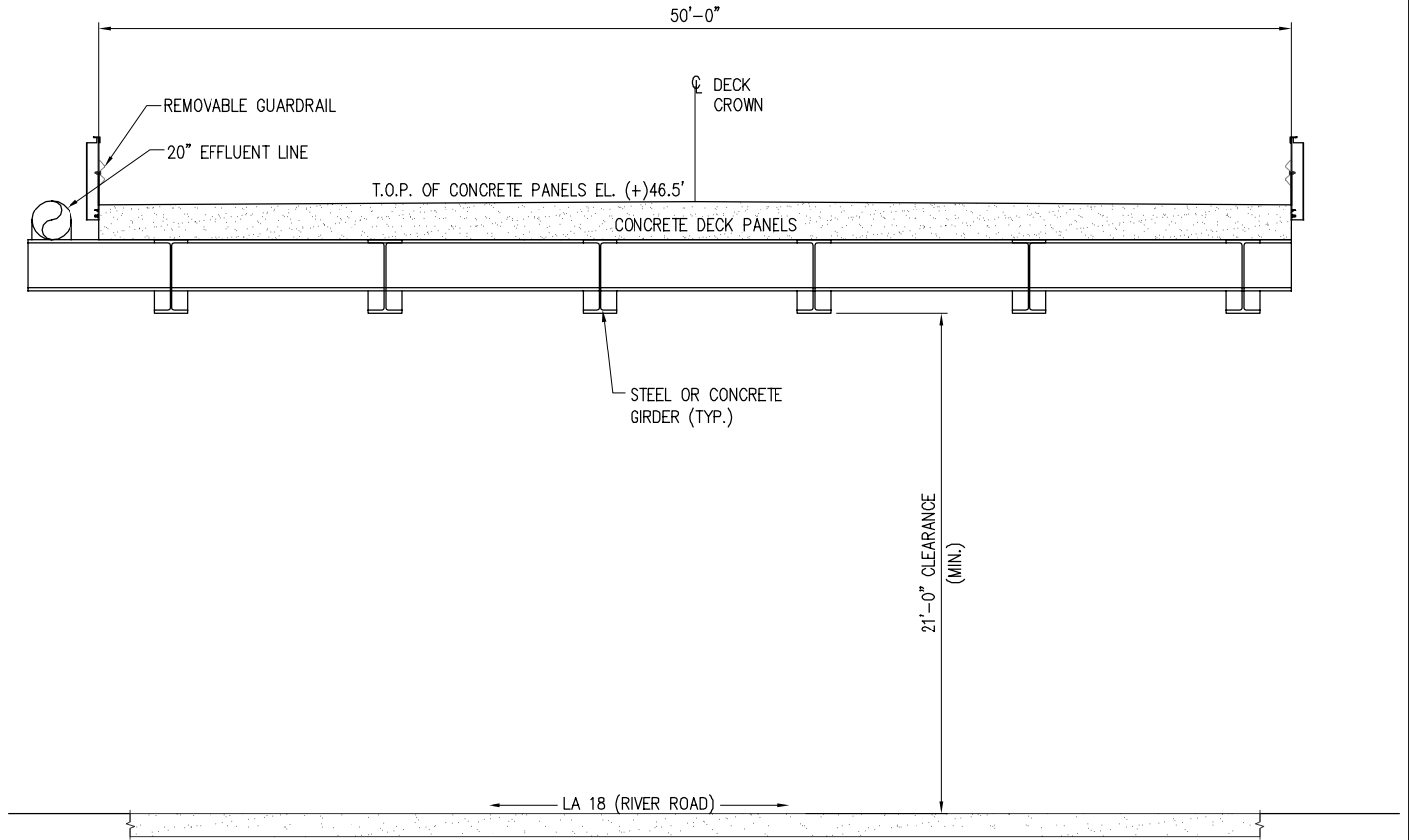
10457-2-P19

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
 HEAVY HAUL ROAD
TYPICAL SPREAD FOOTING BENT SECTION

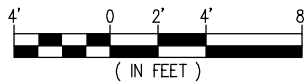
DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **19** OF **38**

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SECTION AT LA 18

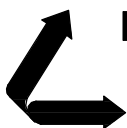
SCALE: 1/8" = 1'-0"



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 LA PE #35134
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10457-2-P20

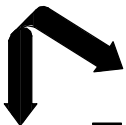


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SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
HEAVY HAUL ROAD
SECTION AT LA 18

DATE	1 OCT 18
DESIGN	ARF
DRAWN	MEW
CHECK	JEJ
CONTRACT	10457-2
SHEET No.	
	20 OF 38



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 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

ST JAMES
 SOUTH LOUISIANA METHANOL, LP
 LOUISIANA

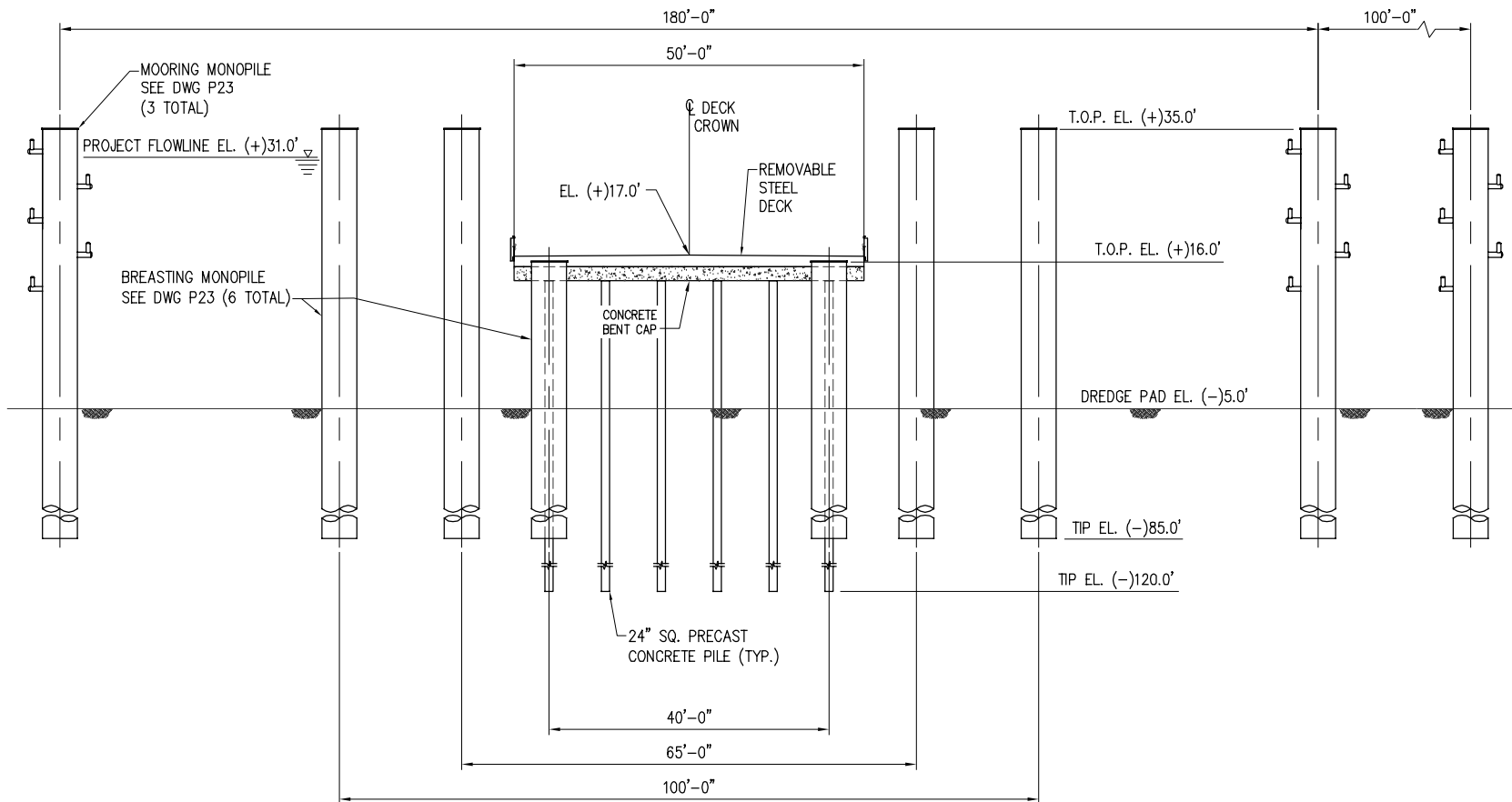
ST JAMES METHANOL FACILITY
 HEAVY HAUL ROAD
 ELEVATION - END OF RAMP

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **21** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

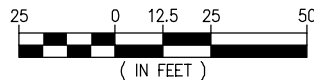
10457-2-P21

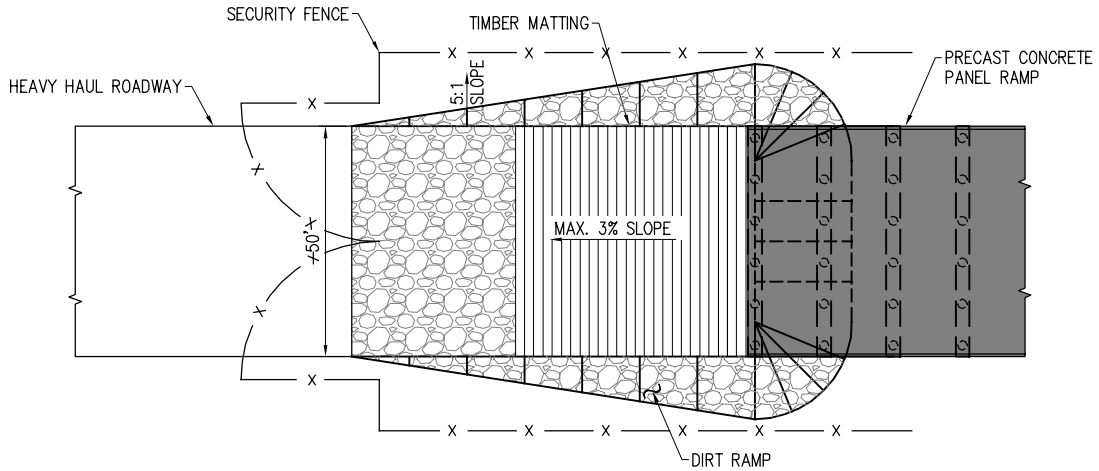
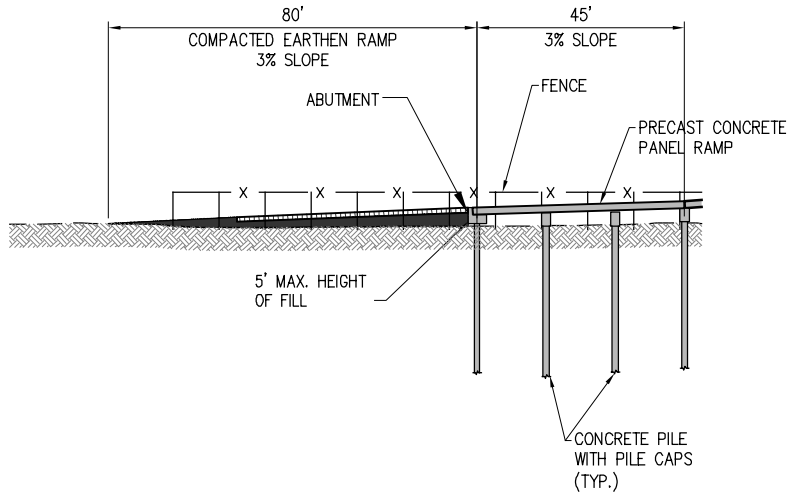
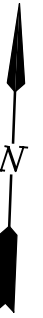
ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.



ELEVATION - END OF RAMP

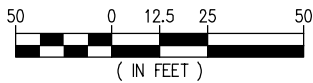
SCALE: 1" = 25'





COMPACTED EARTH RAMP WITH TIMBER MATTING

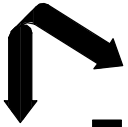
SCALE: 1" = 50'



PRELIMINARY - FOR PERMIT PURPOSES ONLY

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 LA PE #35134
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10457-2-P22



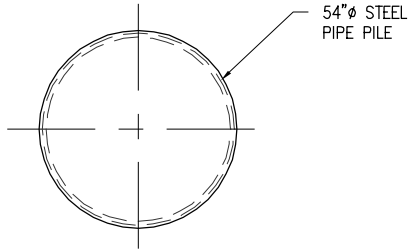
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 F-2981
 LA: C-1120
 NEW ORLEANS, LA · BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
 HEAVY HAUL ROAD
BUILT-UP EARTHEN RAMP WITH TIMBER MATTING

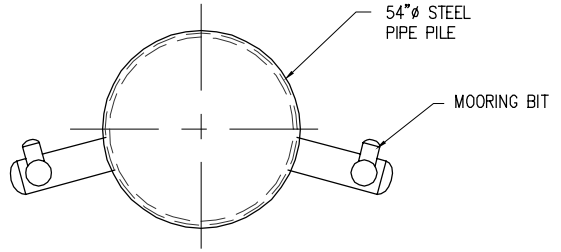
DATE: 1 OCT 18
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 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **22** OF **38**

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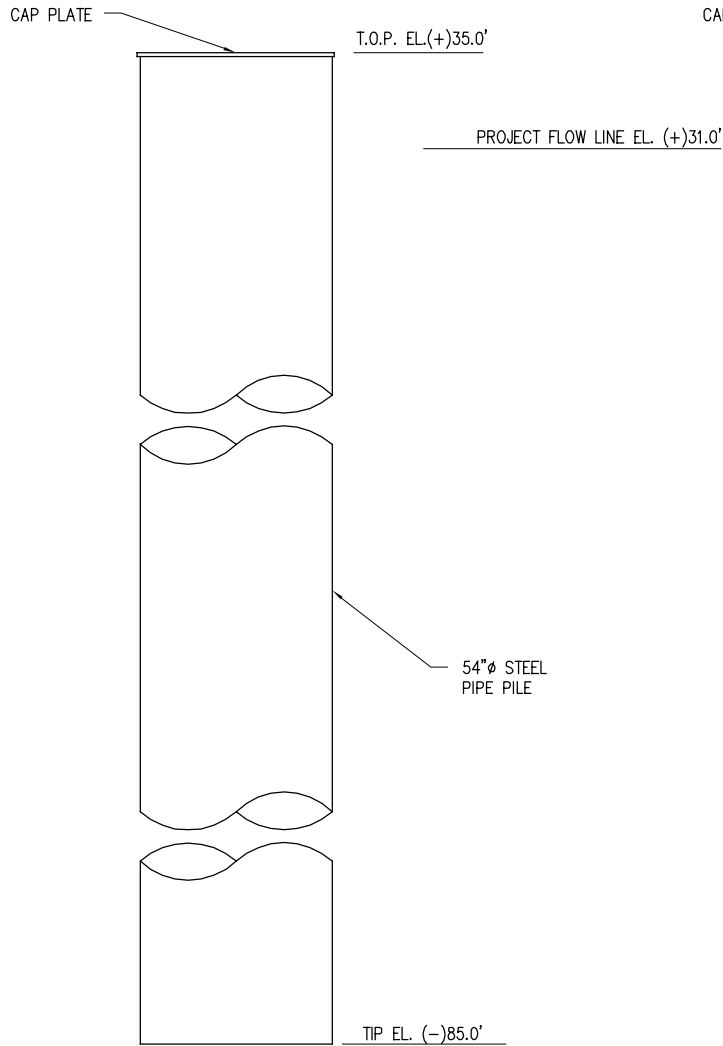
BREASTING MONOPILE PLAN

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



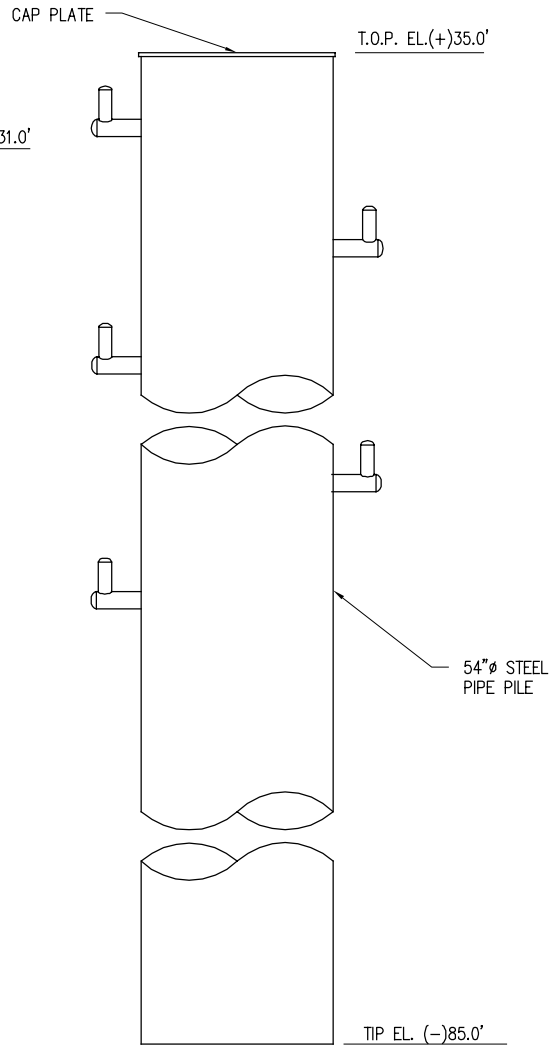
MOORING MONOPILE PLAN

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



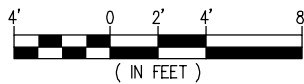
BREASTING MONOPILE ELEVATION

SCALE: 1/8"=1'-0"
(6 PLACES)



MOORING MONOPILE ELEVATION

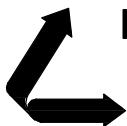
SCALE: 1/8"=1'-0"
(3 PLACES)



ALBERT R. FAVALORA, PE
LA PE #35134
LANIER AND ASSOCIATES
CONSULTING ENGINEERS, INC.

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10457-2-P23

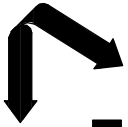


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INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

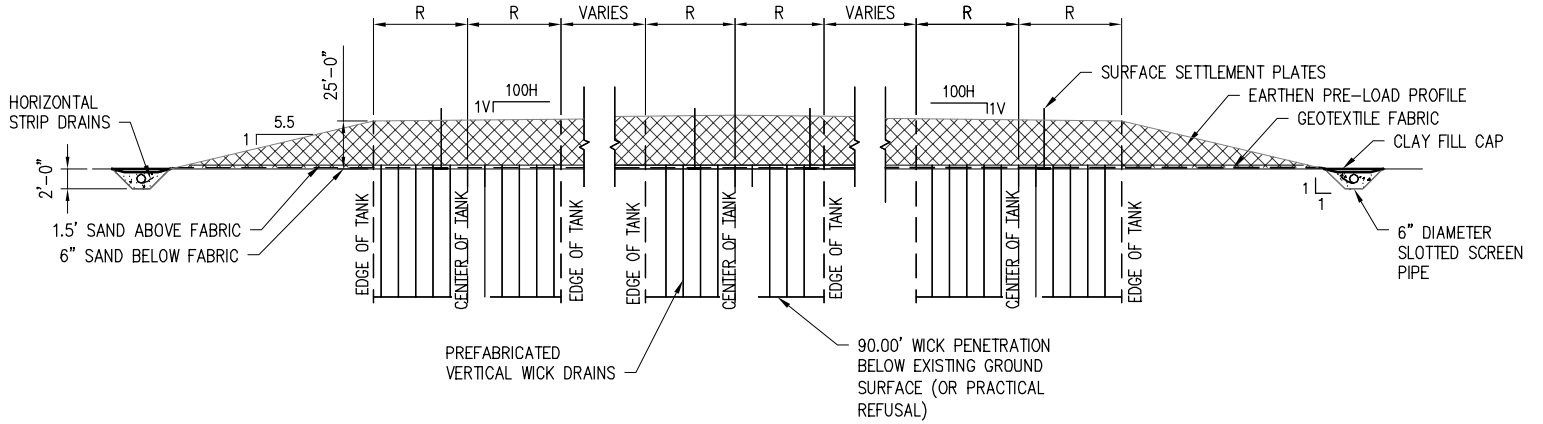
ST JAMES METHANOL FACILITY
BARGE MONOPILES

DATE 1 OCT 18
DESIGN ARF
DRAWN MEW
CHECK JEJ
CONTRACT 10457-2
SHEET No.
23 OF 38



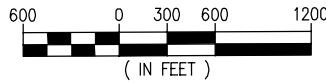
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

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SECTION

SCALE: 1" = 1200'



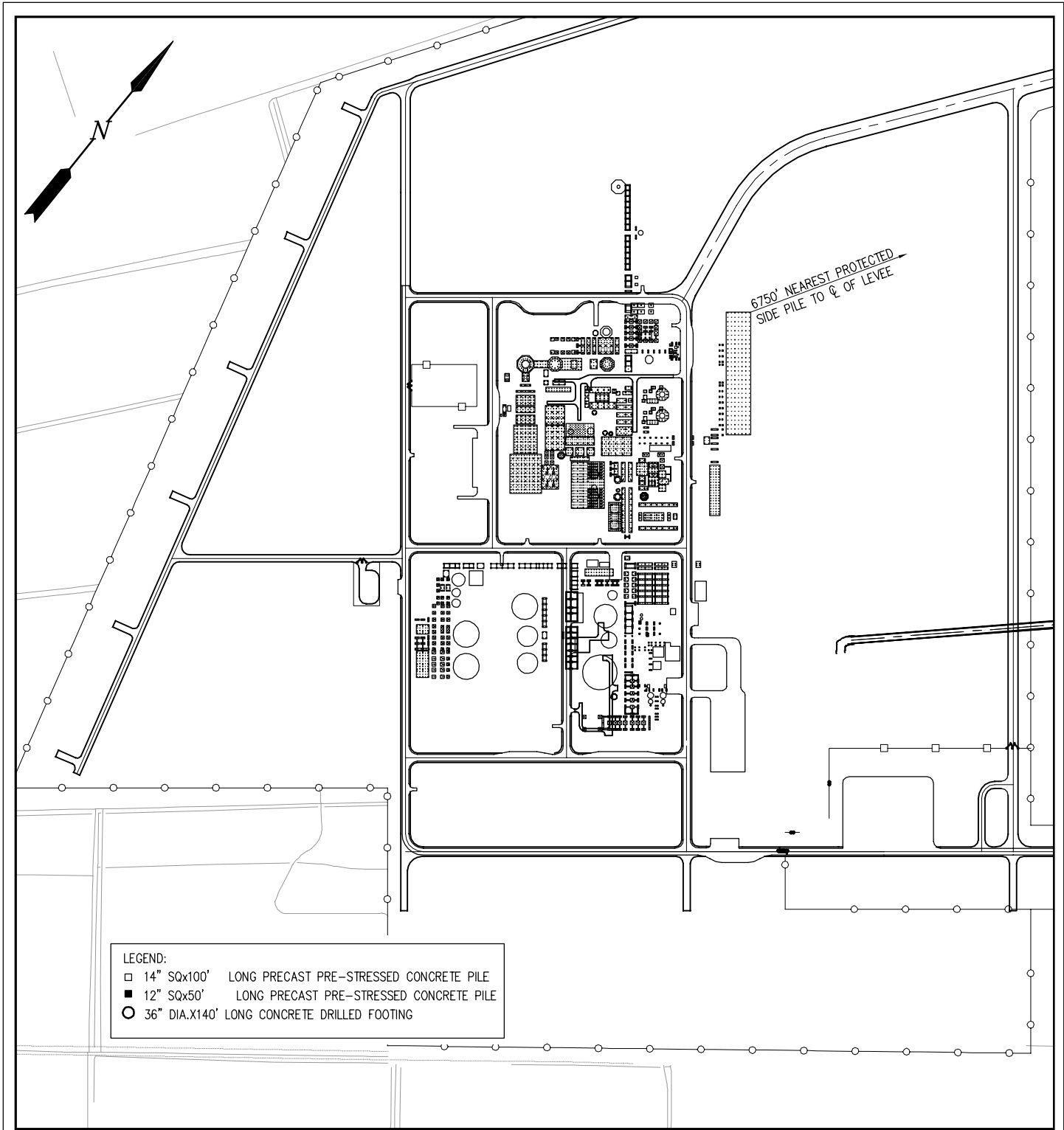
ST JAMES
SOUTH LOUISIANA METHANOL, LP
 LOUISIANA
ST JAMES METHANOL FACILITY
WICK DRAINS & PRELOAD
SECTIONS

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **24** OF **38**

10457-2-P24

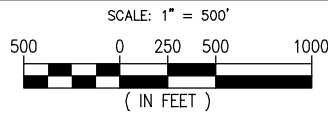
ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.

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- LEGEND:
- 14" SQx100' LONG PRECAST PRE-STRESSED CONCRETE PILE
 - 12" SQx50' LONG PRECAST PRE-STRESSED CONCRETE PILE
 - 36" DIA.X140' LONG CONCRETE DRILLED FOOTING

ENLARGED SITE PLAN – PILE FOUNDATIONS



ALBERT R. FAVALORA, PE
 LA PE #35134
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10457-2-P25

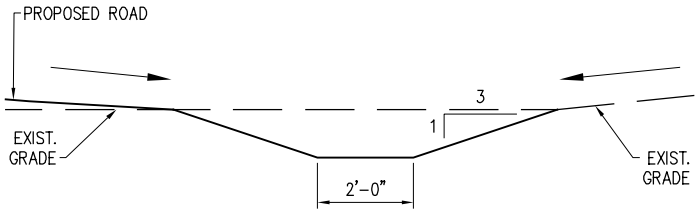
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

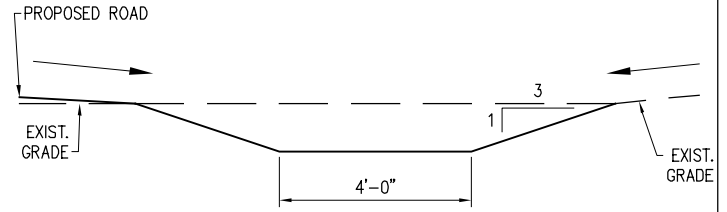
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ENLARGED SITE PLAN
PILE FOUNDATIONS

DATE	1 OCT 18
DESIGN	ARF
DRAWN	MEW
CHECK	JEJ
CONTRACT	10457-2
SHEET No.	25 OF 38

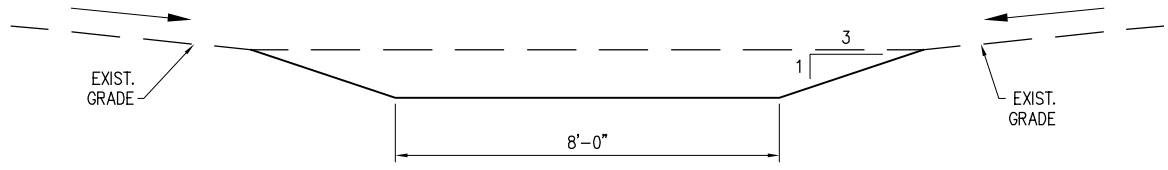
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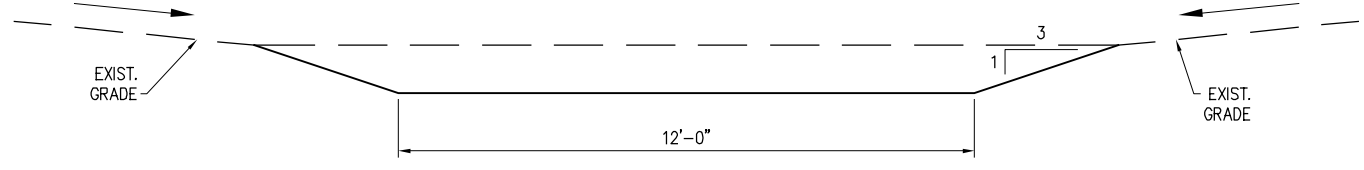
DETAIL AA
SCALE: 1/4" = 1'-0"
P12



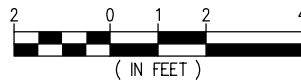
DETAIL BB
SCALE: 1/4" = 1'-0"
P12



DETAIL DD
SCALE: 1/4" = 1'-0"
P13



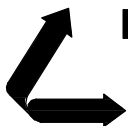
DETAIL EE
SCALE: 1/4" = 1'-0"
P13



ALBERT R. FAVALORA, PE
LA PE #35134
LANIER AND ASSOCIATES
CONSULTING ENGINEERS, INC.

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P26



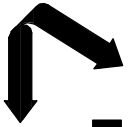
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
TYPICAL DITCH SECTIONS

DATE 1 OCT 18
DESIGN ARF
DRAWN MEW
CHECK JEJ
CONTRACT 10457-2
SHEET No.

26 OF **38**



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

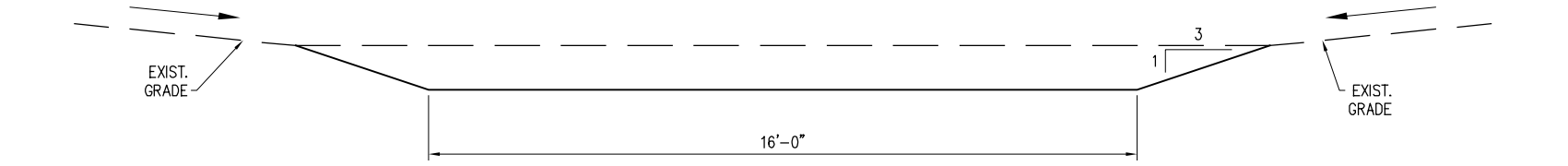
SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
 TYPICAL DITCH SECTIONS

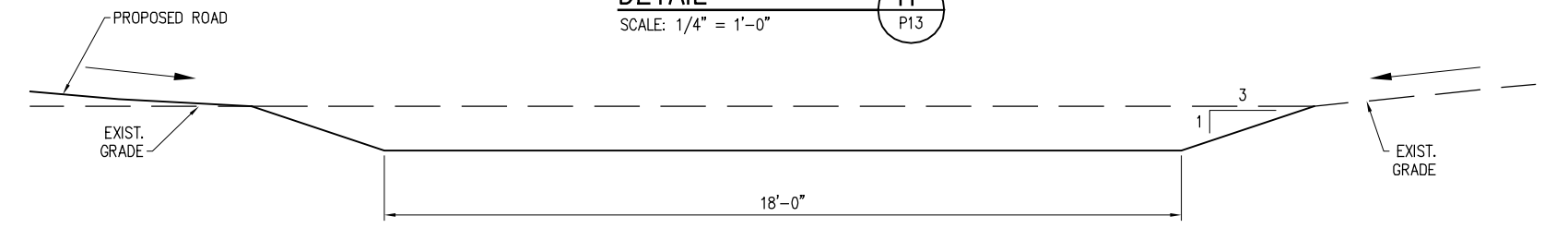
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10457-2-P27

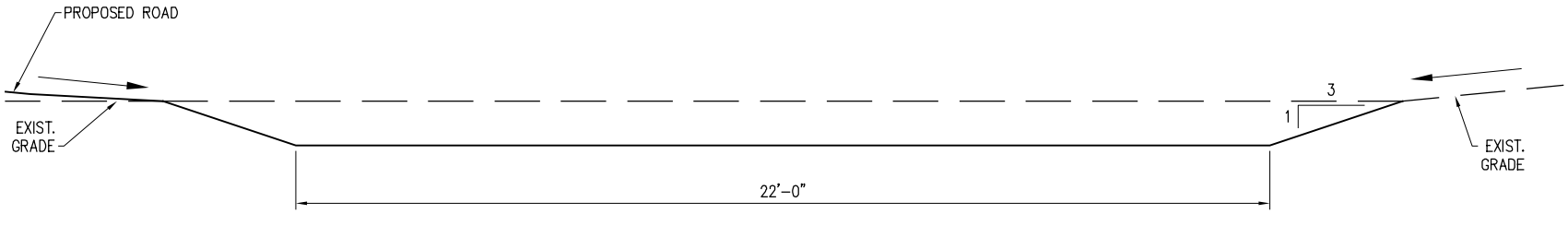
ALBERT R. FAVALLORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.



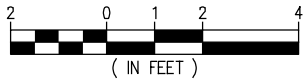
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 SCALE: 1/4" = 1'-0"
 P13



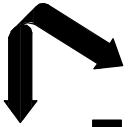
DETAIL **GG**
 SCALE: 1/4" = 1'-0"
 P12



DETAIL **HH**
 SCALE: 1/4" = 1'-0"
 P13



DATE	1 OCT 18
DESIGN	ARE
DRAWN	MEW
CHECK	JEJ
CONTRACT	10457-2
SHEET No.	27 OF 38



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 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX

ST JAMES
SOUTH LOUISIANA METHANOL, LP
 LOUISIANA

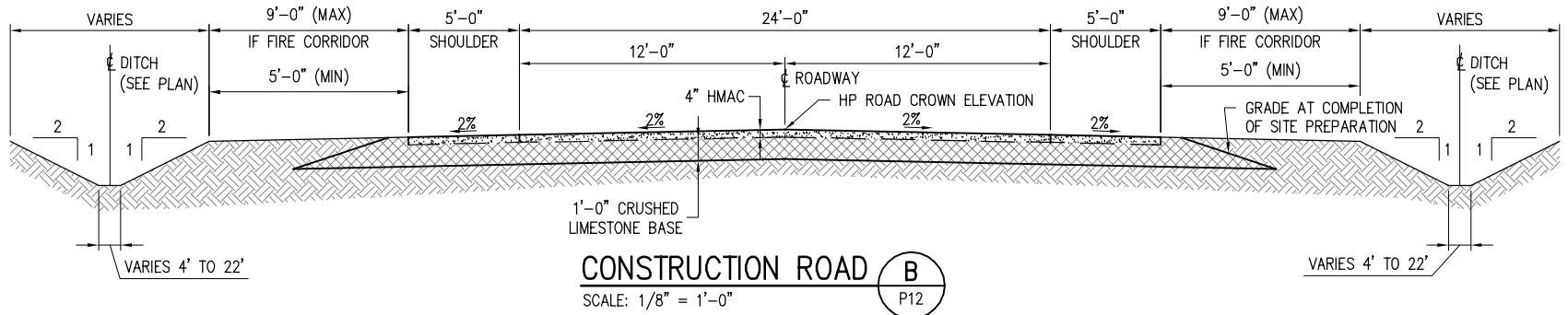
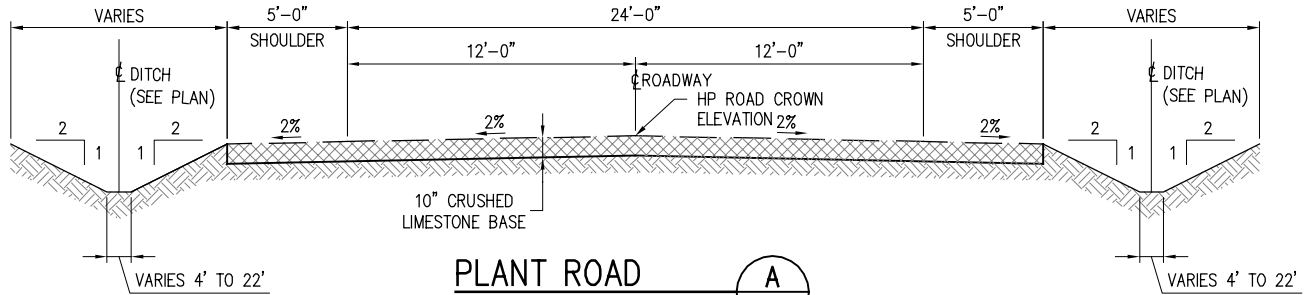
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 TYPICAL ROAD SECTIONS

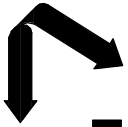
DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **28** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P28

ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.





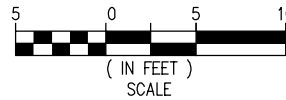
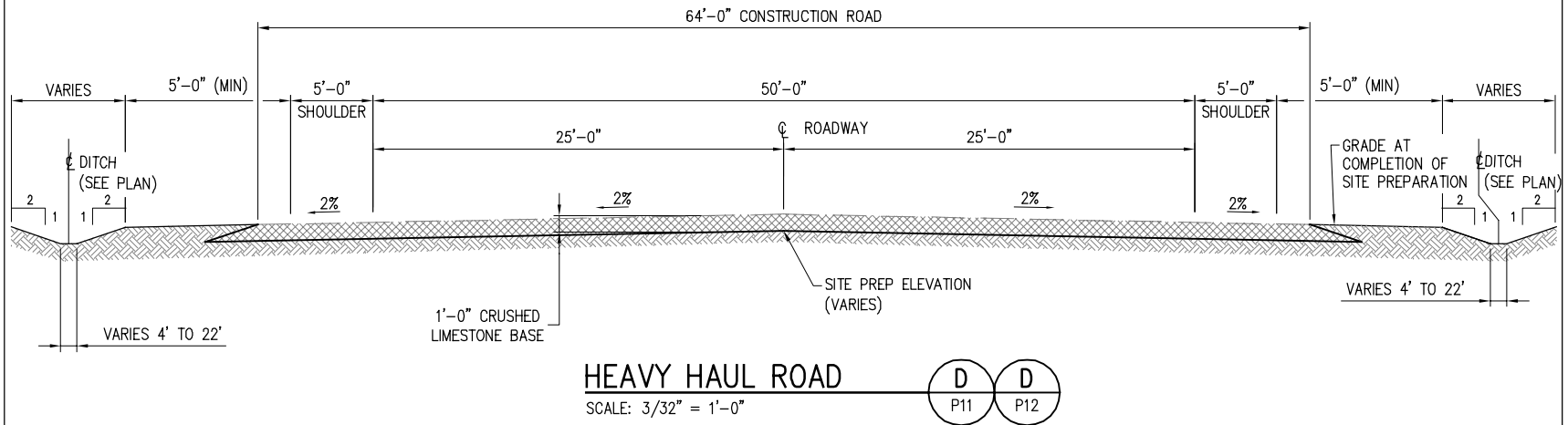
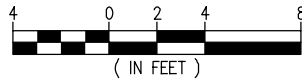
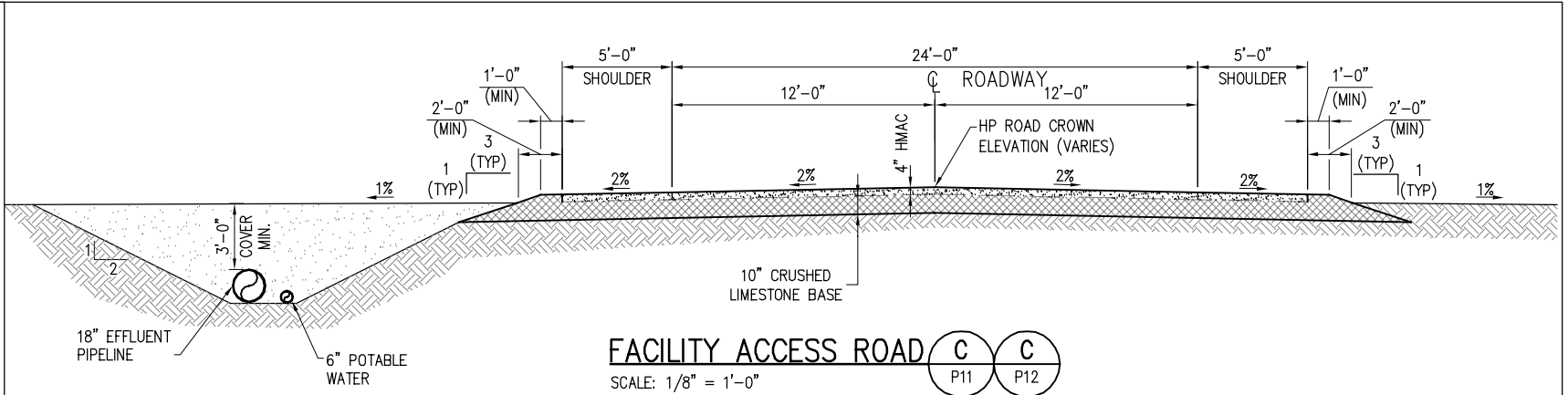
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA BEAUMONT, TX

ST JAMES METHANOL FACILITY
 TYPICAL ROAD SECTIONS

SOUTH LOUISIANA METHANOL, LP
 LOUISIANA

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **29** OF **38**

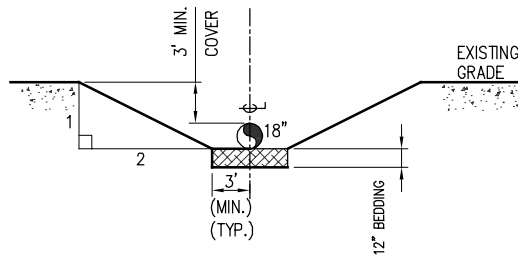
PRELIMINARY - FOR PERMIT PURPOSES ONLY



ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.

10457-2-P29

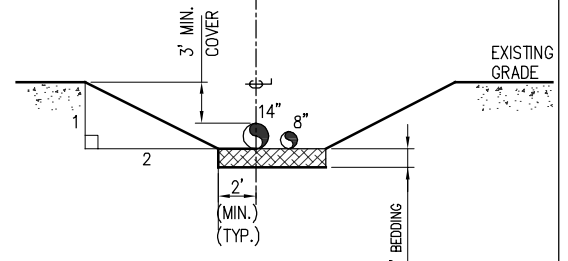
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TYPICAL CROSS SECTION

A1
P12

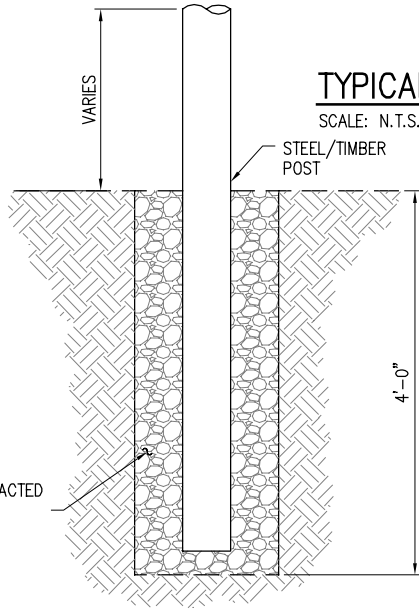
SCALE: N.T.S.



TYPICAL CROSS SECTION

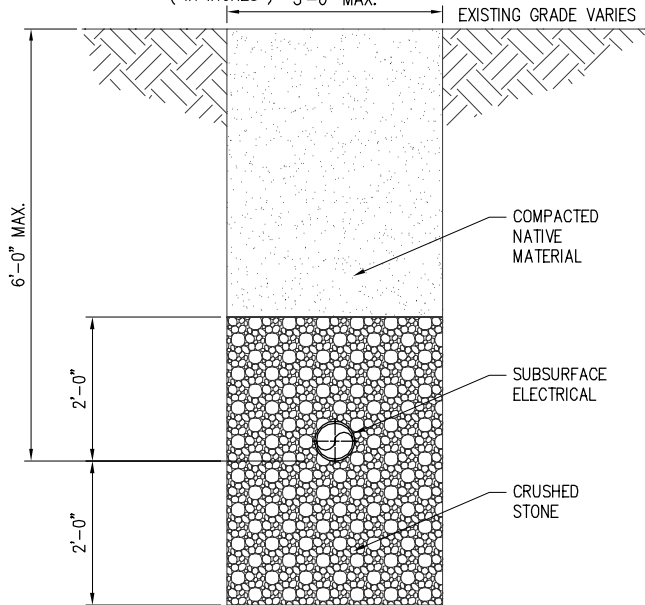
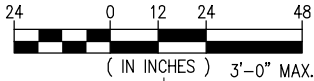
A2
P12

SCALE: N.T.S.



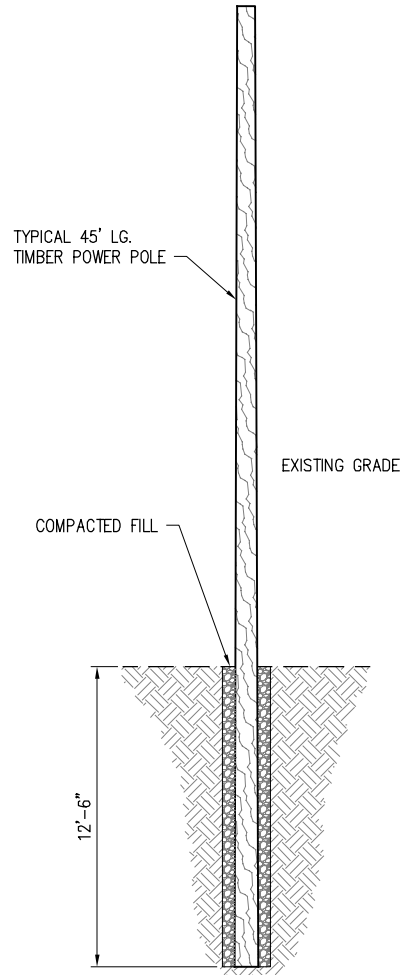
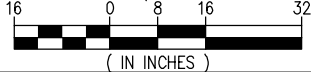
SIGN POST ELEVATION

SCALE: 1/2" = 1'-0"



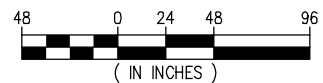
TYPICAL ELECTRICAL SUBSURFACE SECTION

SCALE: 3/8" = 1'-0"



TYPICAL POWER POLE ELEVATION

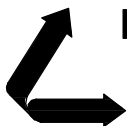
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ALBERT R. FAVALORA, PE
LA PE #35134
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10457-2-P30



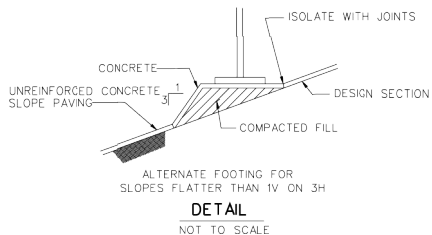
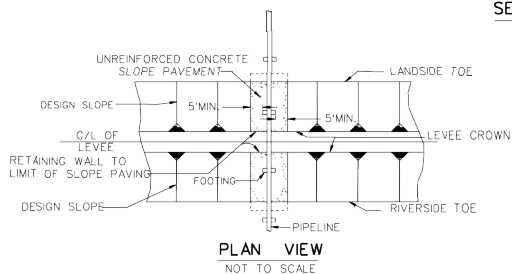
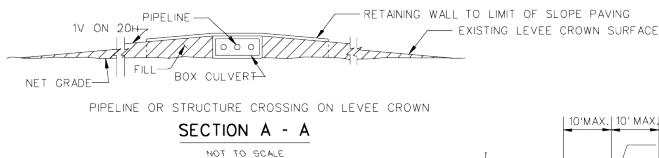
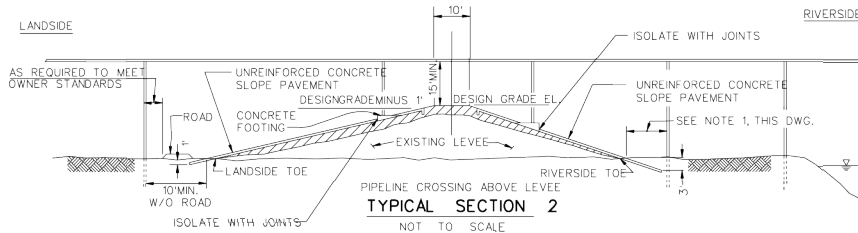
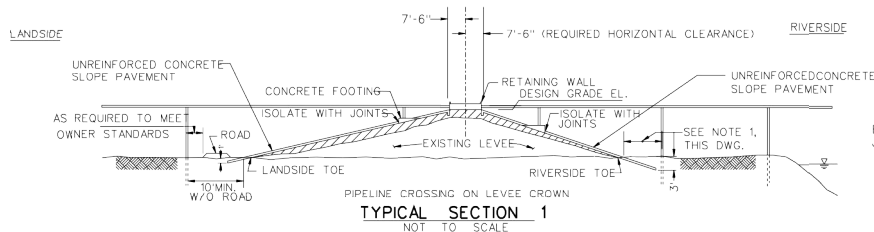
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
ST JAMES LOUISIANA

ST JAMES METHANOL FACILITY
HEAVY HAUL ROAD
TYPICAL BURIED PIPE & UTILITY SECTIONS

DATE 1 OCT 18
DESIGN ARF
DRAWN MEJ
CHECK JEJ
CONTRACT 10457-2
SHEET No.

30 OF 38



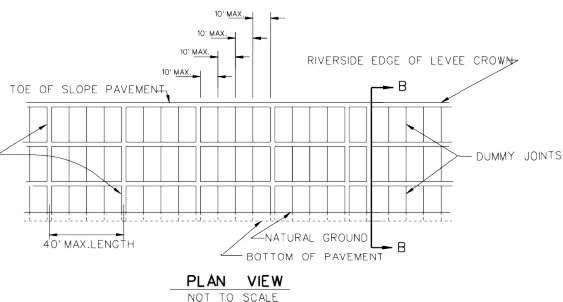
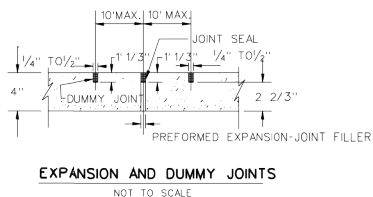
DETAIL
NOT TO SCALE

EMBANKMENT REQUIREMENTS

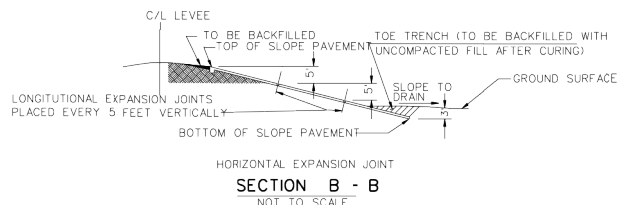
COMPACTED FILL (LEVEE ACCESS ROADS AND FOOTINGS)
 THE MATERIAL FOR COMPACTED FILL SHALL BE PLACED IN LAYERS, THE FIRST LAYER NOT MORE THAN 4 INCHES IN THICKNESS AND THE SUCCEEDING LAYERS NOT MORE THAN 8 INCHES IN THICKNESS PRIOR TO COMPACTION. EACH LAYER SHALL BE COMPACTED BY 10 COMPLETE PASSES OF A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

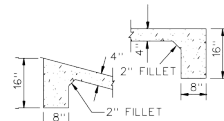
UNCOMPACTED FILL (BERMS AND BACKFILL)
 THE MATERIAL FOR UNCOMPACTED FILL SHALL BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS NOT EXCEEDING 3 FEET IN THICKNESS. THE LAYERS SHALL BE UNFORMLY SPREAD, DISTRIBUTED, AND OTHERWISE MANIPULATED DURING PLACEMENT TO SUCH AN EXTENT THAT INDIVIDUAL LOADS OF MATERIAL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



PLAN VIEW
NOT TO SCALE



HORIZONTAL EXPANSION JOINT
SECTION B - B
NOT TO SCALE



DETAILS OF CUTOFF WALL
NOT TO SCALE

SLOPE PAVEMENT DETAILS

NOTES:

- 10' MIN. OR AS REQUIRED TO AVOID PENETRATION OF CONCRETE SLOPE PAVEMENT.
- CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN FOOTING REST ON LEVEE SLOPE PAVEMENT MUST EXTEND 5' EACH SIDE OF FOOTINGS.
- IN THE ABSENCE OF FOOTING ON LEVEE, LANDSIDE SLOPE PAVING WILL NOT BE REQUIRED. RIVERSIDE SLOPING WILL BE REQUIRED WHEN NECESSARY FOR EROSION CONTROL.
- SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND EXISTING LEVEE.
- ALL FRESH FILL SHALL BE SODDED OR FERTILIZED AND SEEDED AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
- 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.
- FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMP, PIPE COVER, AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
- 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.

LANIER & ASSOCIATES
 CONSULTING ENGINEERS, INC.
 NEW ORLEANS, LA FIRM-1120 • BEAUMONT, TX
 JOB NO 10457-2 CAD NO. 10457-2-P31 L&A DWG. NO. 31 OF 38

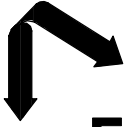
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
COMPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Date]
 DRAWN BY: [Signature]
 DATE: [Date]

DESIGNATION: [Blank]
 DATE: [Blank]
 MARK: [Blank]

PIPELINE CROSSINGS OVER LEVEES AND FLOODWAYS
 TYPICAL FOR RIVER LEVEES

FILE NUMBER: H-8-29027
 DWG. 4 OF 9



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 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX

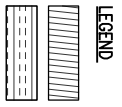
SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA
ST JAMES METHANOL FACILITY
 EXCAVATION & FILL
 SECTION

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JJJ
 CONTRACT: 10457-2
 SHEET No. **32** OF **38**

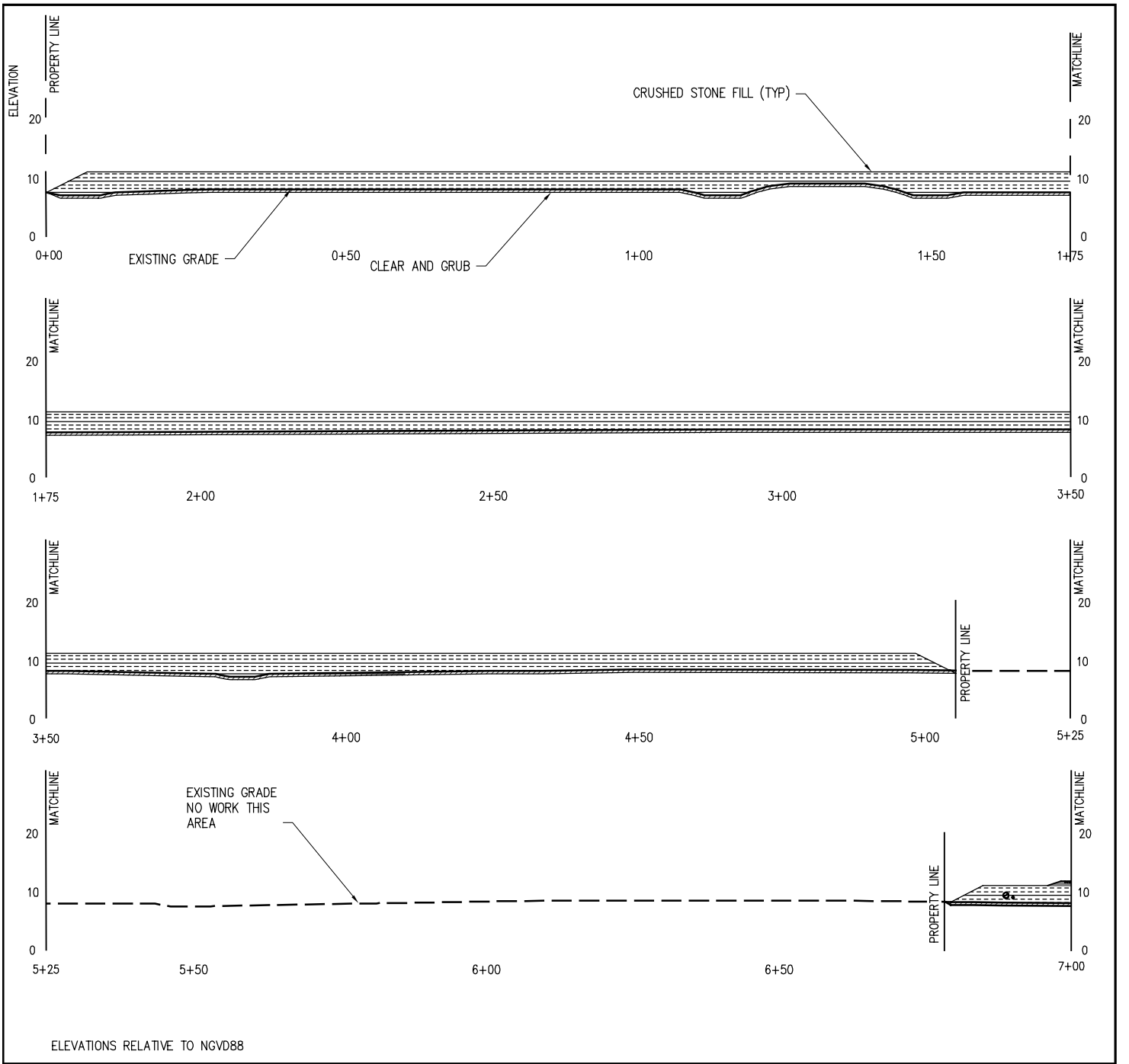
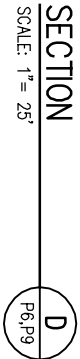
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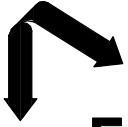
10457-2-P32-38

ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.



CLEAR AND GRUB
 CRUSHED STONE FILL





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 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX

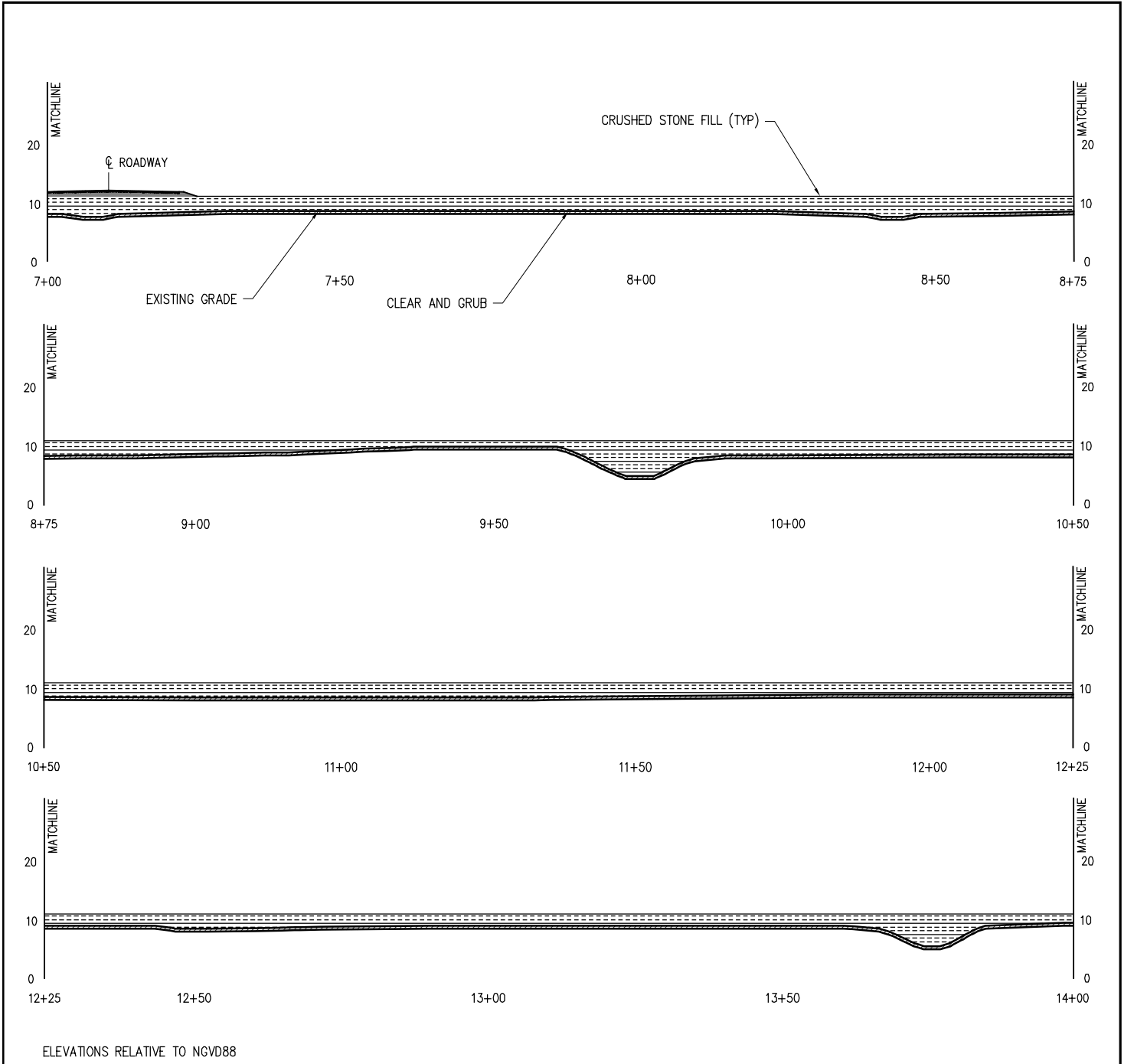
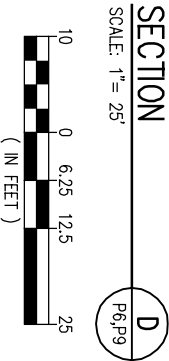
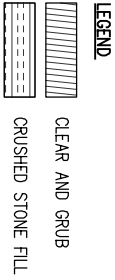
SOUTH LOUISIANA METHANOL, LP
 LOUISIANA
ST JAMES METHANOL FACILITY
EXCAVATION & FILL
SECTION

DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **33** OF **38**

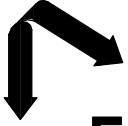
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10457-2-P32-38

ALBERT R. FAVALLORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.



ELEVATIONS RELATIVE TO NGVD88



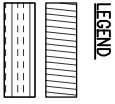
LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 LA: C-1120 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA
ST JAMES METHANOL FACILITY
EXCAVATION & FILL
SECTION

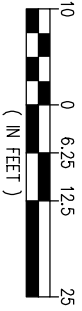
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 SHEET No. **34** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

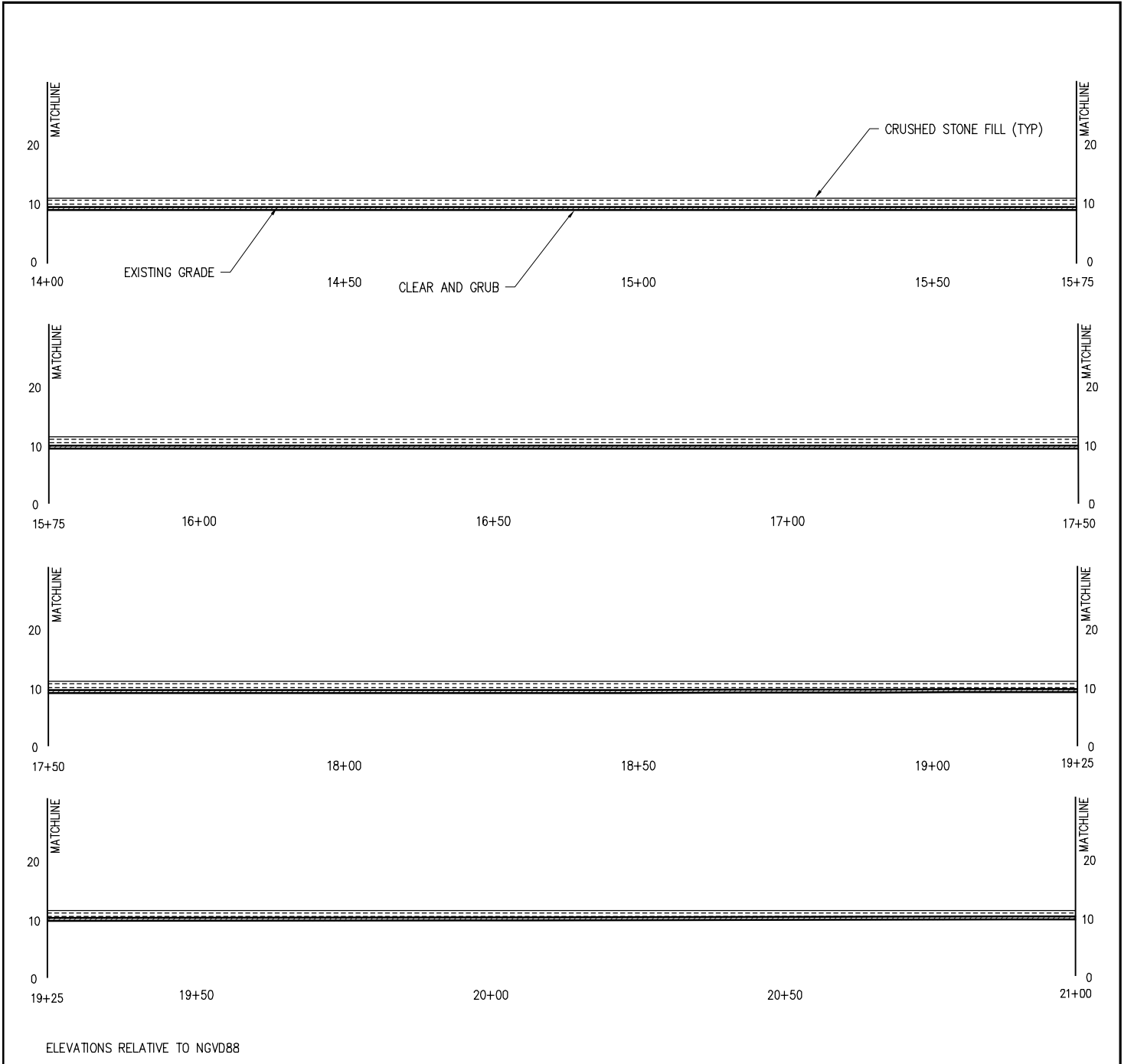
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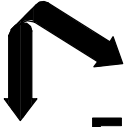


LEGEND
 CLEAR AND GRUB
 CRUSHED STONE FILL



ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.





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

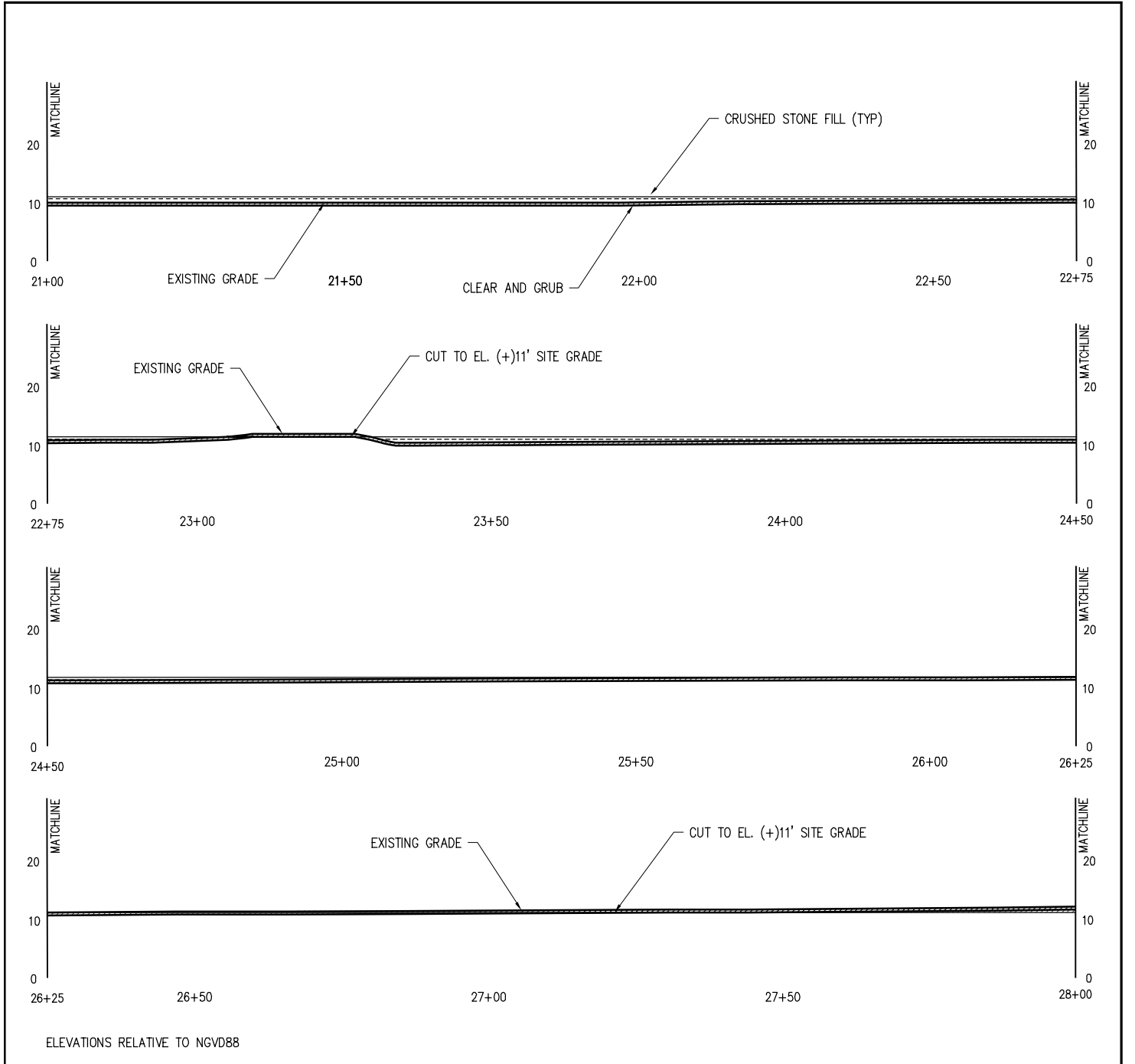
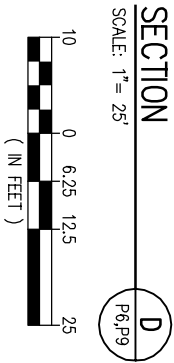
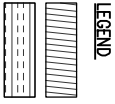
SOUTH LOUISIANA METHANOL, LP
 ST JAMES LOUISIANA
ST JAMES METHANOL FACILITY
EXCAVATION & FILL
SECTION

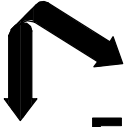
DATE: 1 OCT 18
 DESIGN: ARE
 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **35** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P32-38

ALBERT R. FAVALLORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.





LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 F-2981
 NEW ORLEANS, LA · BEAUMONT, TX

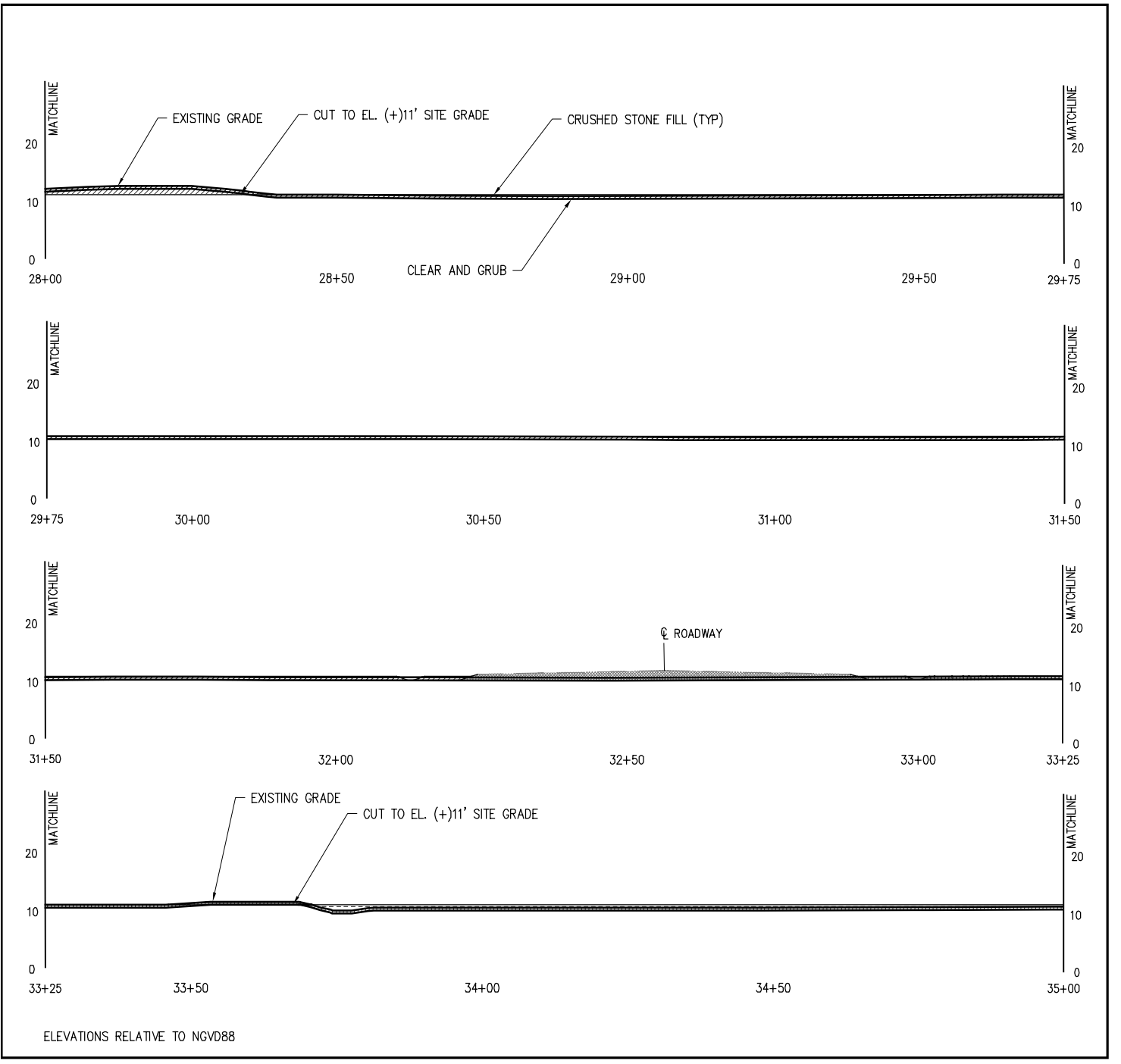
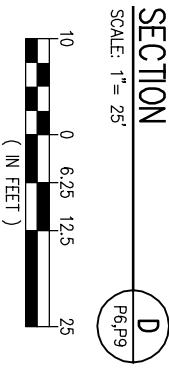
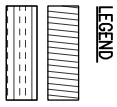
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 LOUISIANA
ST JAMES METHANOL FACILITY
EXCAVATION & FILL
SECTION

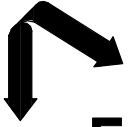
DATE: 1 OCT 18
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 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No.
36 OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P32-38

ALBERT R. FAVALORA, PE
 LA PE #35134
 LANIER AND ASSOCIATES
 CONSULTING ENGINEERS, INC.





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

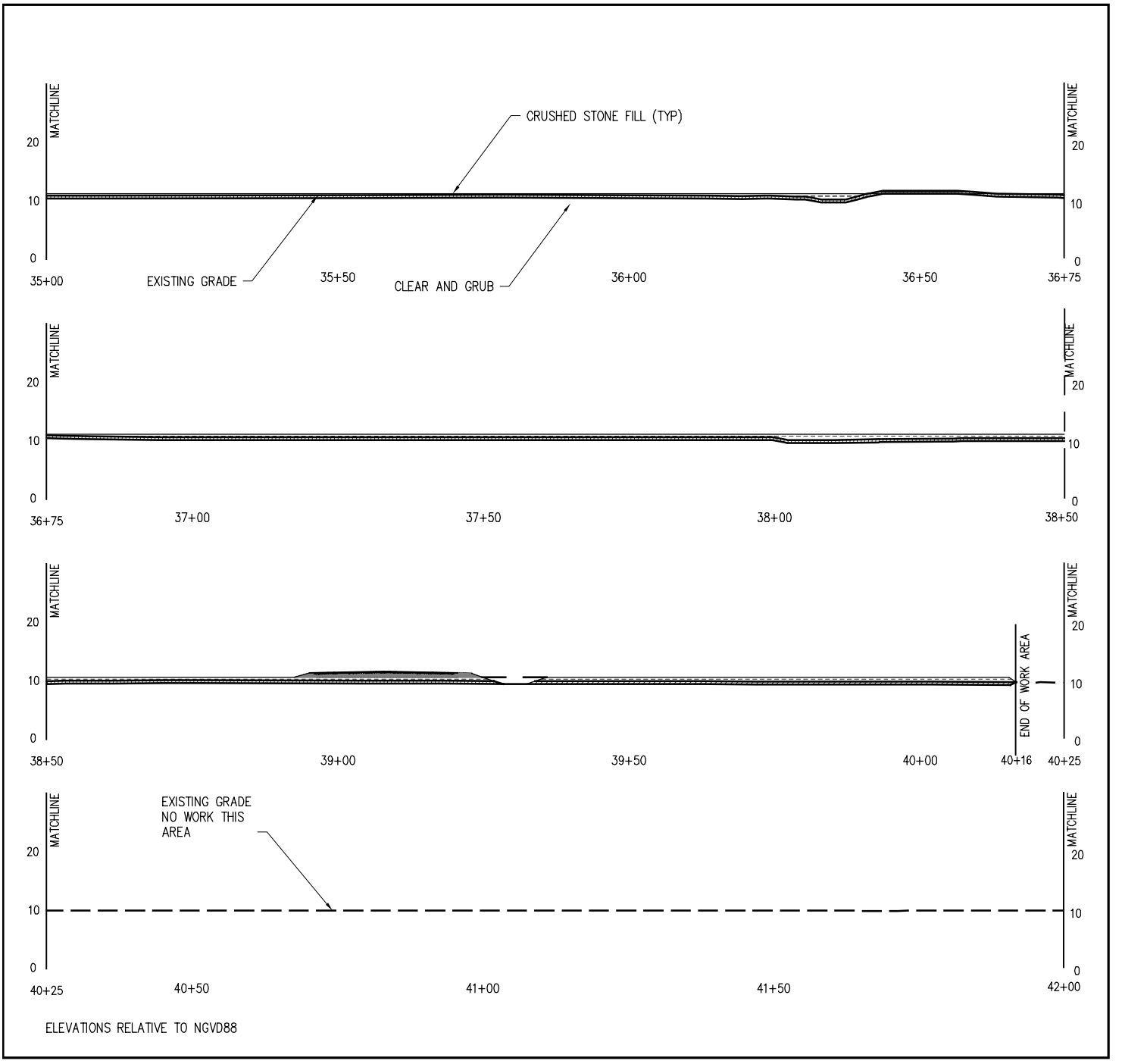
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 LOUISIANA
ST JAMES METHANOL FACILITY
EXCAVATION & FILL
SECTION

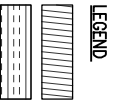
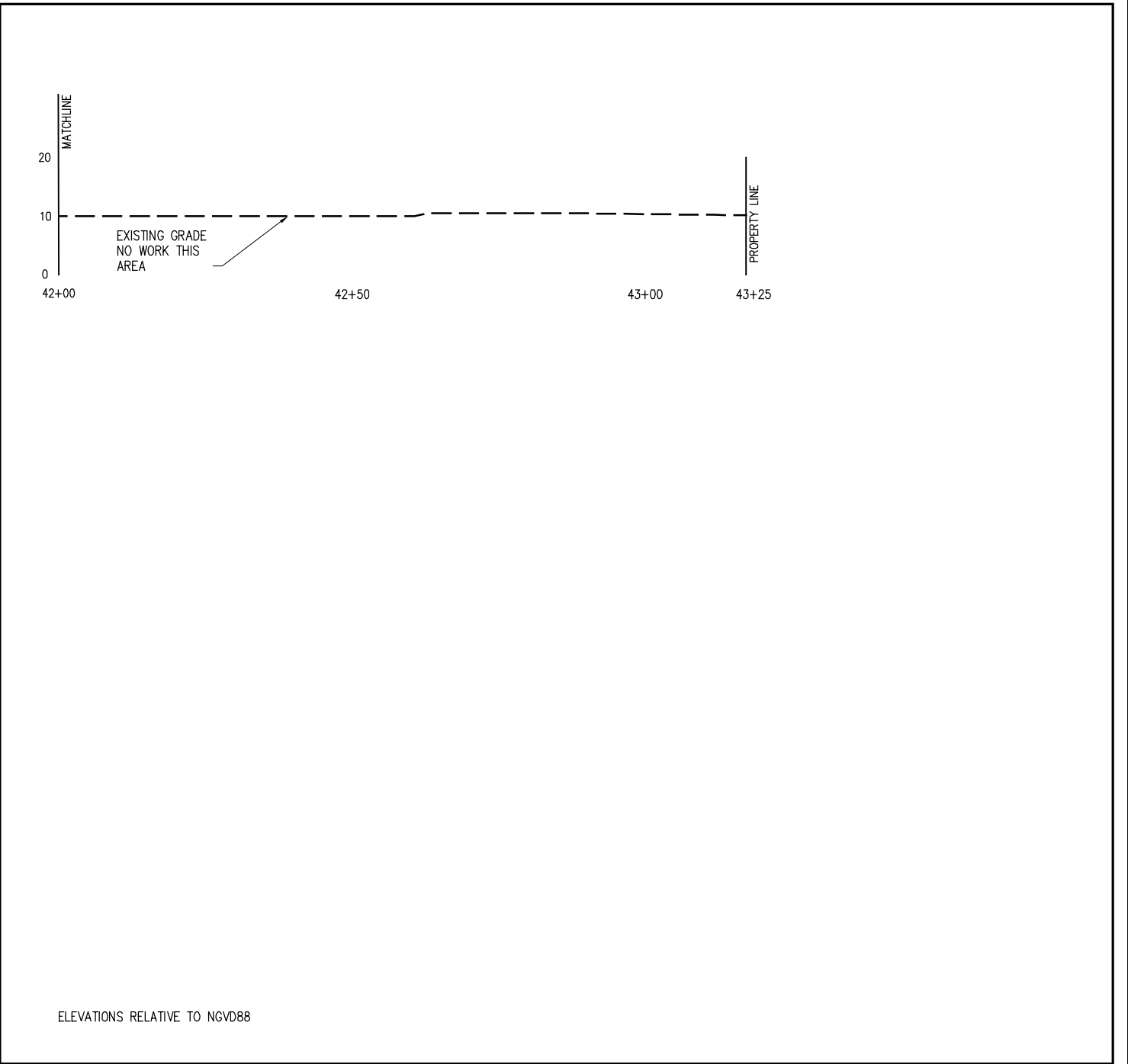
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 DRAWN: MEW
 CHECK: JEJ
 CONTRACT: 10457-2
 SHEET No. **37** OF **38**

PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P32-38

ALBERT R. FAVALORA, PE
 LA PE #35134
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 CONSULTING ENGINEERS, INC.

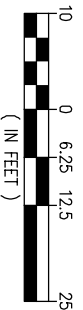




CLEAR AND GRUB
CRUSHED STONE FILL

SECTION

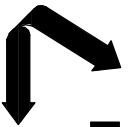
SCALE: 1" = 25'



ALBERT R. FAVALORA, PE
LA PE #35134
LANIER AND ASSOCIATES
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PRELIMINARY - FOR PERMIT PURPOSES ONLY

10457-2-P32-38



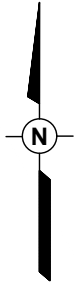
LANIER & ASSOCIATES
CONSULTING ENGINEERS
INCORPORATED
LA: C-1120 F-2981
NEW ORLEANS, LA · BEAUMONT, TX

SOUTH LOUISIANA METHANOL, LP
LOUISIANA
ST JAMES

ST JAMES METHANOL FACILITY
EXCAVATION & FILL
SECTION

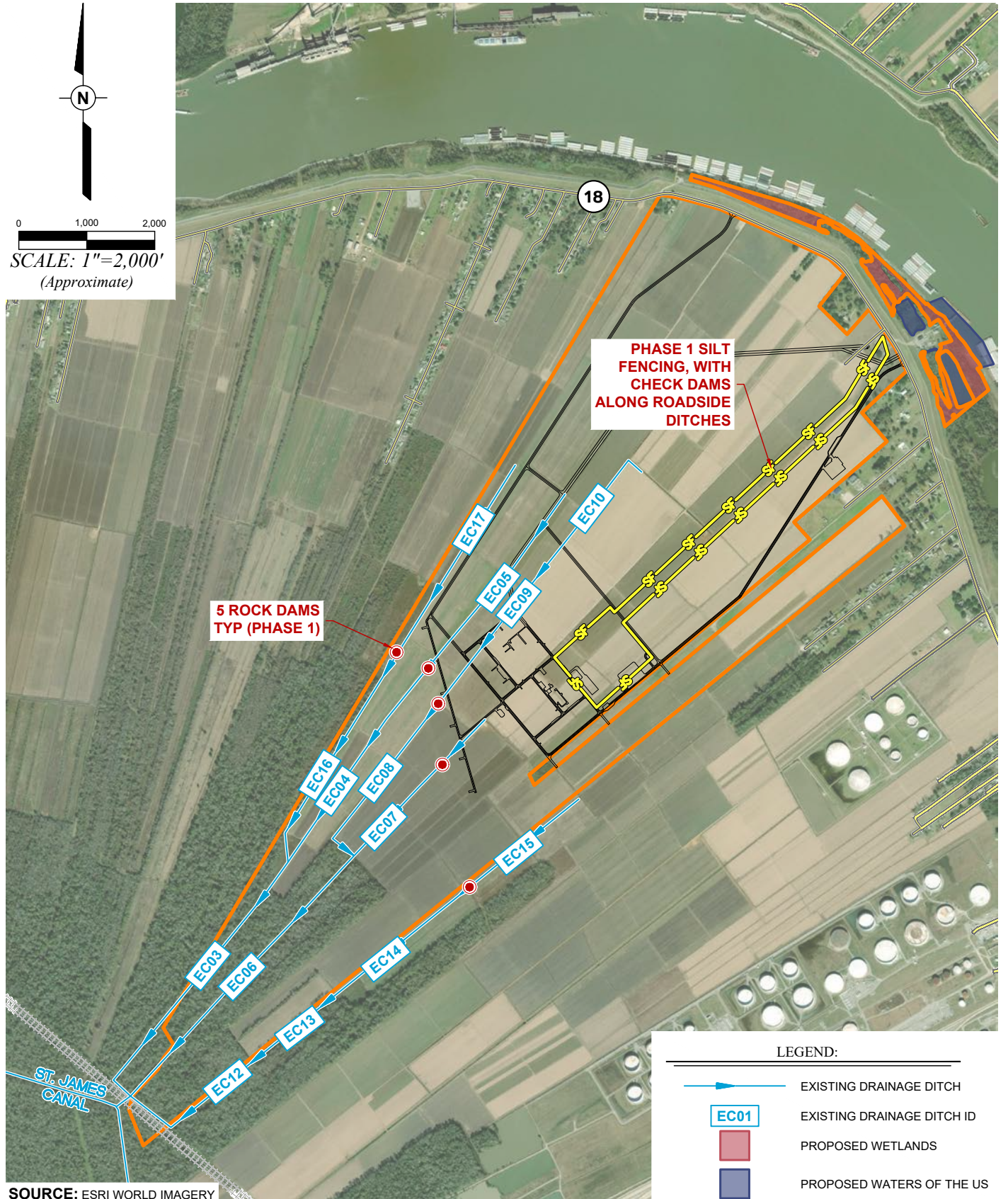
DATE	1 OCT 18
DESIGN	ARE
DRAWN	MEW
CHECK	JEJ
CONTRACT	10457-2
SHEET No.	38 OF 38

**SUPPLEMENTAL DRAWINGS
FIGURES 39 THROUGH 43**



0 1,000 2,000





SCALE: 1"=2,000'
(Approximate)



5 ROCK DAMS
TYP (PHASE 1)

PHASE 1 SILT
FENCING, WITH
CHECK DAMS
ALONG ROADSIDE
DITCHES

LEGEND:

-  EXISTING DRAINAGE DITCH
-  EXISTING DRAINAGE DITCH ID
-  PROPOSED WETLANDS
-  PROPOSED WATERS OF THE US

SOURCE: ESRI WORLD IMAGERY



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DRAWN BY:

BWH

DRAWN DATE:

09/24/18

PROJECT NUMBER:

569203

BILLING GROUP:

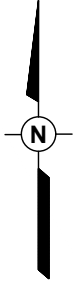
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SOUTH LOUISIANA
METHANOL LP
7719-1 LOUISIANA HIGHWAY 18
ST. JAMES, LOUISIANA

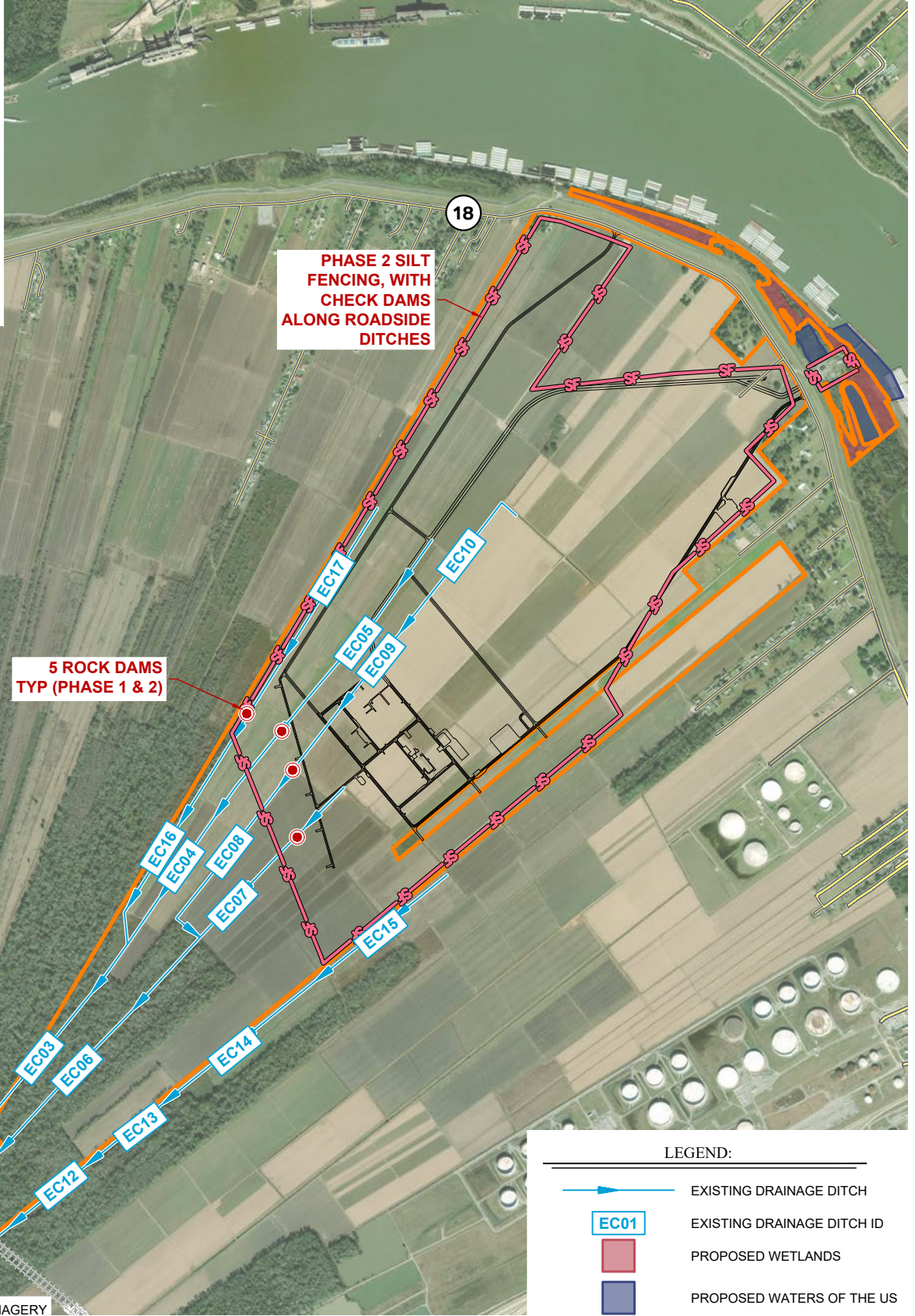
SUPPLEMENTAL
DRAWING FOR
PHASE 1 BMP
LOCATIONS

FIGURE
NUMBER

39







0 1,000 2,000
SCALE: 1"=2,000'
 (Approximate)



**5 ROCK DAMS
 TYP (PHASE 1 & 2)**

**PHASE 2 SILT
 FENCING, WITH
 CHECK DAMS
 ALONG ROADSIDE
 DITCHES**

LEGEND:

-  EXISTING DRAINAGE DITCH
-  EXISTING DRAINAGE DITCH ID
-  PROPOSED WETLANDS
-  PROPOSED WATERS OF THE US

SOURCE: ESRI WORLD IMAGERY



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BWH

PROJECT NUMBER:
569203

DRAWN DATE:
09/24/18

BILLING GROUP:
 --

**SOUTH LOUISIANA
 METHANOL LP**
 7719-1 LOUISIANA HIGHWAY 18
 ST. JAMES, LOUISIANA

**SUPPLEMENTAL
 DRAWING FOR
 PHASE 2 BMP
 LOCATIONS**

FIGURE
 NUMBER

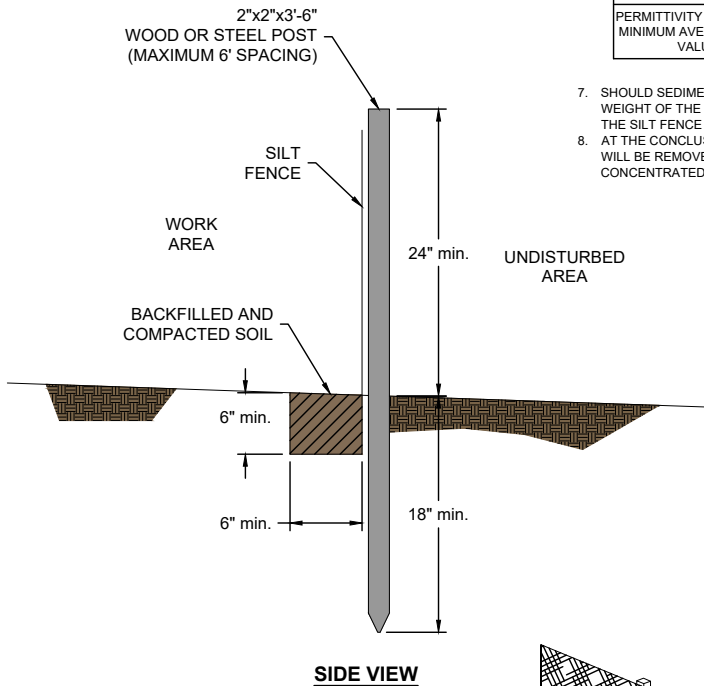
40

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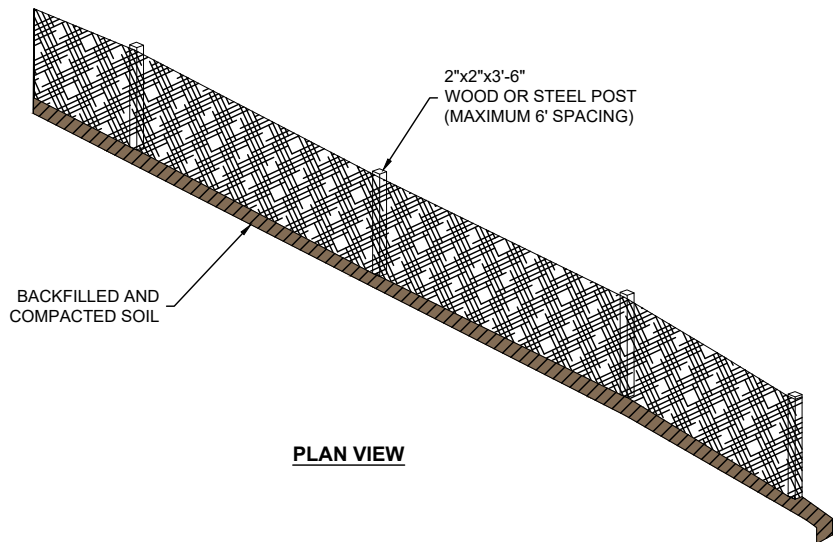
1. SILT FENCE SHALL BE IN THE LOCATIONS ON THE PLAN VIEW AND MAY BE SUPPLEMENTED WITH REQUIREMENTS OF REGULATORY AUTHORITIES ISSUING PERMITS. THE SILT FENCE INSTALLATION AND CHECK OUT SHALL PRECEDE AND LANDSCAPE DISTURBANCE.
2. INSTALLATION OF THE SILT FENCE SHALL BE IN ACCORDANCE WITH ASTM D 6462, THE MANUFACTURER'S RECOMMENDATION, AND THE DETAILS SHOWN ON THIS SHEET. POST SPACING SHOWN IS MAXIMUM FOR UNSUPPORTED INSTALLATION WITH ELONGATION <50% (ASTM D 4632). FOR SILT FENCE MATERIAL WITH ELONGATION >50% AND SUPPORTED SILT FENCES, THE MAXIMUM POST SPACING IS 4'.
3. SILT FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO ALIGNMENT LENGTH TO AVOID JOINTS. LAPS END POSTS SHALL BE AS SHOWN BELOW. SECURING SILT FENCE BY SIMPLY OVERLAPPING WITHOUT INTEGRAL SECURING WITH DOUBLE POSTS IS NOT ACCEPTABLE.
4. SILT FENCE SHALL BE FASTENED SECURELY TO THE UP SLOPE SIDE OF THE SUPPORT POSTS USING A MINIMUM OF 3/4" LONG HEAVY-DUTY WIRE STAPLES ORIENTED AT A 45° FROM THE VERTICAL OR TIE WIRES. IN THE CASE OF NON-WOODEN POSTS IS NOT ACCEPTABLE.
5. POSTS SHALL BE 2"x2"x3'-6" (OR LONGER) WOOD OR STEEL (STANDARD "T" OR "U" TYPE 1.3 lbs/linear foot).
6. SILT FENCE SHALL HAVE THE FOLLOWING PROPERTIES:

PROPERTY	TEST METHOD	MINIMUM TEST VALUE
TENSILE STRENGTH (lbs.) MINIMUM AVERAGE ROLL VALUE (MARV)	ASTM D 4632	90
ULTRAVIOLET LIGHT (% RETAINED STRENGTH)	ASTM D 4355 (500 hr EXPOSURE)	>70
APPARENT OPENING SIZE MAXIMUM AVERAGE ROLL VALUE - PER ASTM D 4632	ASTM D 4751	>#30 (U.S. STANDARD SIEVE SIZE)
PERMITTIVITY (SECOND-1) MINIMUM AVERAGE ROLL VALUE	ASTM 4491	0.05

7. SHOULD SEDIMENT ACCUMULATE TO THE POINT WHERE THE FENCE WILL BE OVERTOPPED WITH FLOW OR THE WEIGHT OF THE SEDIMENT THREATENS TO COLLAPSE THE FENCE, REMOVE THE SEDIMENT AND PLACE IT ABOVE THE SILT FENCE OUT OF CONCENTRATED FLOW AREAS OR AT OTHER APPROVED LOCATIONS.
8. AT THE CONCLUSION OF CONSTRUCTION WHEN ALL VEGETATIVE ACTIONS HAVE BEEN COMPLETED THE SILT FENCE WILL BE REMOVED AND TRAPPED SILT WILL BE SPREAD ACROSS ESTABLISHED VEGETATION OUTSIDE PATHS OF CONCENTRATED FLOW. MAXIMUM DEPTH OF SPREAD SOIL SHALL BE 4'.



SIDE VIEW



PLAN VIEW

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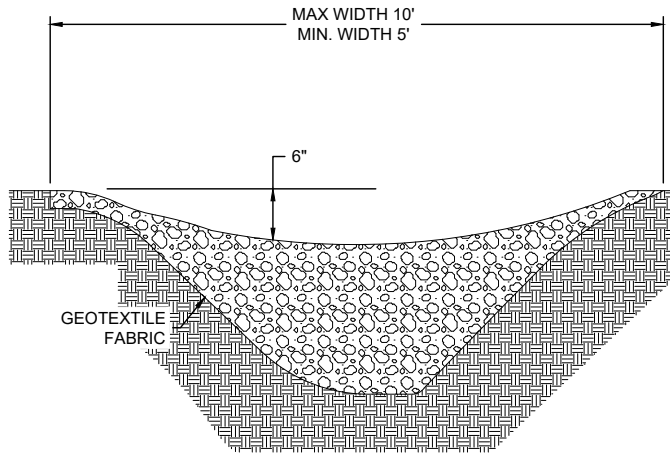
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PROJECT NUMBER: 569203	BILLING GROUP: --

**SOUTH LOUISIANA
METHANOL LP**
7719-1 LOUISIANA HIGHWAY 18
ST. JAMES, LOUISIANA

**SUPPLEMENTAL
DRAWING FOR
SILT FENCE
DIAGRAM**

FIGURE
NUMBER

41



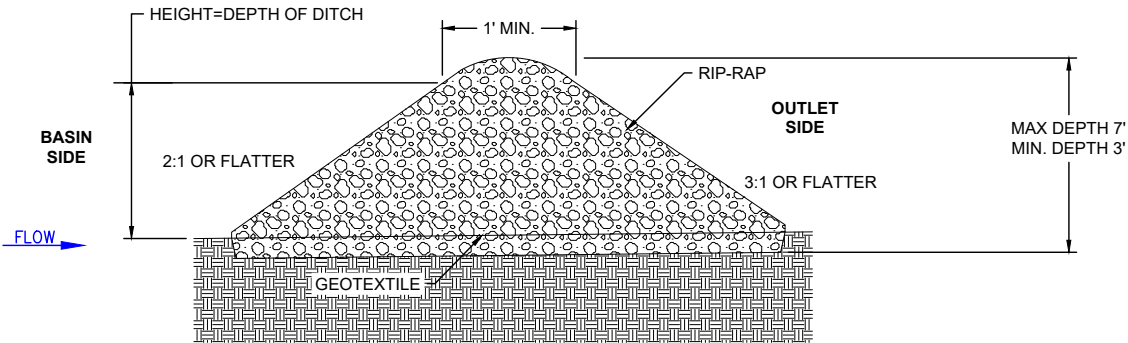
CROSS-SECTION A-A'

SPECIFICATIONS:

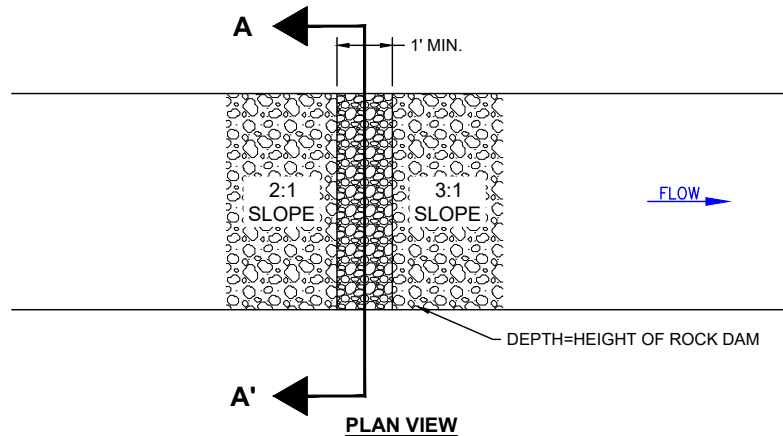
1. ROCK DAM CONSTRUCTION SHOULD BE DONE PRIOR TO GRADING.
2. INSTALL ROCK DAM ALL THE WAY ACROSS THE DITCH AND PLACE ROCK DAM IN DITCH.
3. DIG OUT 6" INTO THE DITCH AND PLACE ROCK DAM IN DITCH.
4. ROCK DAMS SHOULD BE CONSTRUCTED TO A HEIGHT EQUAL TO THE DEPTH OF THE DITCH.
5. ROCK DAMS SHOULD HAVE SLOPES NO GREATER THAN 2:1 ON THE BASIN SIDE AND NO GREATER THAN 3:1 ON THE OUTLET SIDE OF THE DAM.
6. ON THE BASIN SIDE OF THE DAM, A MINIMUM OF 6" IF GRAVEL SHOULD BE USED TO COVER THE DAM FROM TOP TO BOTTOM TO SLOW DRAINAGE.
7. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM EROSION, SINCE WATER WILL FLOW OVER AND AROUND DAM.
8. ADD ADDITIONAL RIP-RAP AT BASE FOR AN ENERGY DISSIPATER (APRON). APRON LENGTH SHOULD BE APPROXIMATELY EQUAL TO THE HEIGHT OF THE ROCK DAM.

MAINTENANCE:

1. ROUTINE INSPECTION.
2. REMOVAL OF DEBRIS.
3. REMOVE TRAPPED SEDIMENT FROM RIP-RAP WHEN 50% OF THE SEDIMENT STORAGE VOLUME IS OCCUPIED WITH SEDIMENT (HALF FULL).
4. REPAIR AND SEED SIDE SLOPE AREAS THAT HAVE ERODED OR HAVE BECOME DAMAGED BY EQUIPMENT DURING SILT CLEANOUT OR OTHER OPERATIONS.




SIDE VIEW



PLAN VIEW

REFERENCE:

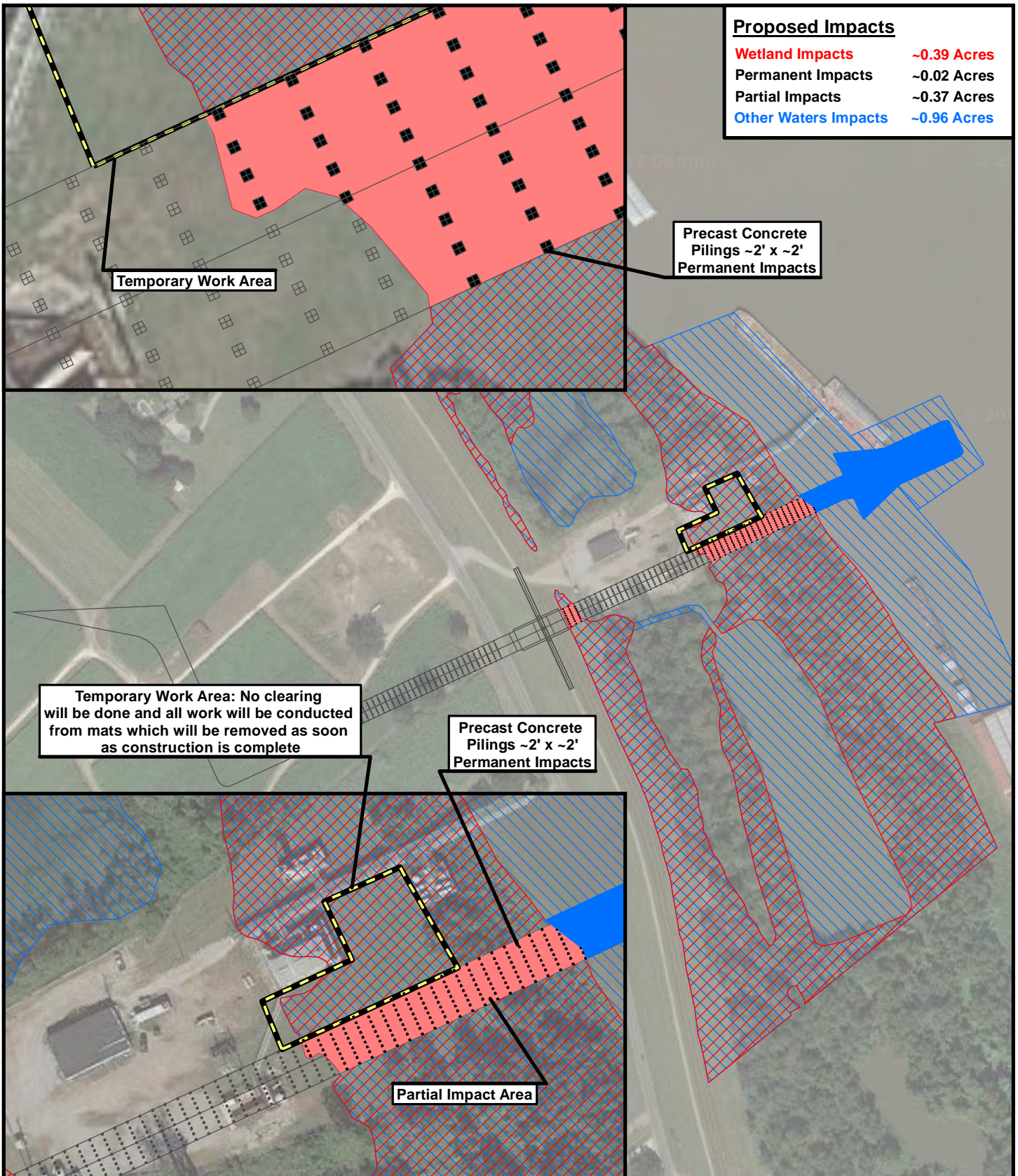
URBAN STORM WATER RUNOFF: ROADS, HIGHWAYS, BRIDGES. BEST MANAGEMENT PRACTICES (BMPs) FOR COASTAL LOUISIANA, NONPOINT SOURCE POLLUTION, LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008.

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DRAWN BY: BWH	DRAWN DATE: 09/24/18
PROJECT NUMBER: 569203	BILLING GROUP: --

**SOUTH LOUISIANA
METHANOL LP**
 7719-1 LOUISIANA HIGHWAY 18
 ST. JAMES, LOUISIANA

**SUPPLEMENTAL
DRAWING FOR
ROCK DAM
DIAGRAM**

FIGURE
NUMBER
42



Proposed Impacts

Wetland Impacts	~0.39 Acres
Permanent Impacts	~0.02 Acres
Partial Impacts	~0.37 Acres
Other Waters Impacts	~0.96 Acres

Temporary Work Area

Precast Concrete Pilings ~2' x ~2' Permanent Impacts

Temporary Work Area: No clearing will be done and all work will be conducted from mats which will be removed as soon as construction is complete

Precast Concrete Pilings ~2' x ~2' Permanent Impacts

Partial Impact Area

ELOS[®]
 environmental
 43177 East Pleasant Ridge Road
 Hammond, Louisiana 70403
 P. 985-662-5501, F. 985-662-5504

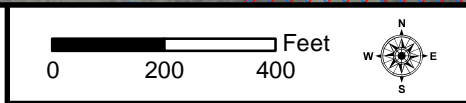


Figure 43

South Louisiana Methanol LP

Legend:

	Temporary Work Area		Proposed Wetlands
	Partial Impacts		Proposed Other Waters
	Other Water Impacts		

This figure was prepared utilizing public and proprietary data. It should not be used to establish any legal boundaries or specific locations. ELOS Environmental, L.L.C., is not responsible for any usage of this figure contrary to its original, intended purpose.