

JOINT PUBLIC NOTICE

May 11, 2015

United States Army
Corps of Engineers
New Orleans District
Regulatory Branch
Post Office Box 60267
New Orleans, Louisiana 70160-0267

(504) 862-1938

Brian.W.Breaux@usace.army.mil

Project Manager
Brian Breaux
Permit Application Number
MVN 2014-01575 MB

State of Louisiana
Department of Environmental Quality
ATTN: Water Quality Certifications
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(225) 219-3225

Project Manager
Elizabeth Johnson
WQC Application Number
WQC 150423-02

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

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

NATURAL GAS LIQUEFACTION AND PIPELINE FACILITIES IN CALCASIEU, JEFFERSON DAVIS, ACADIA, CAMERON, ALLEN, AND BEAUREGARD PARISHES, LOUISIANA

NAME OF APPLICANT: Lake Charles LNG Company, LLC / Lake Charles LNG Export Company, LLC / Trunkline Gas Company, LLC, Attn: Monica Howard, 1300 Main Street, RM14.030, Houston, TX 77056.

LOCATION OF WORK: Liquefaction facilities are adjacent to the existing Lake Charles LNG Import Terminal in Calcasieu Parish; pipeline facilities are in Calcasieu and Jefferson Davis Parishes. Pipeline components will occur in Calcasieu, Jefferson Davis, Acadia, Cameron, Allen, and Beauregard Parishes, Louisiana . (facility centerpoint: Latitude 30.1210, Longitude -93.2890).

Hydrologic Unit Code: 08080206 – Lower Calcasieu
Hydrologic Unit Code: 08080203 – Upper Calcasieu
Hydrologic Unit Code: 08080202 – Mermentau
Hydrologic Unit Code: 08080201 – Mermentau Headwaters

PROJECT SUMMARY: Construction of new natural gas liquefaction and pipeline facilities and modification of the existing Lake Charles LNG Import Terminal to export LNG .

CHARACTER OF WORK: This work will consist of the major components summarized below.

Liquefaction Facility (Figures 1-4): The Liquefaction Facility will require an approximately 286-acre site. This site will be cleared and permanently filled for ongoing operations, permanently impacting 105.27 acres of wetlands. Additional construction workspaces for the liquefaction facility will comprise four separate locations totaling approximately 325 acres in the immediate area of the Liquefaction Facility, with a permanent wetland impact of 110.15 acres.

LNG Carrier Berth (Figures 5-7): Mooring and breasting dolphins will be modified at the existing west dock, and breasting dolphins will be added to the existing east dock. Two temporary construction docks will be constructed. Approximately 26,000 cubic yards of material will be dredged from the existing basin for onshore disposal at an existing confined disposal facility.

Pipelines: Two new pipelines (one new 6.45-mile pipeline and one new 11.44 mile-pipeline in a new right-of-way) will be installed, and one existing pipeline will be modified. Where pipelines are installed and modified, the proposed activities include clearing rights-of-way, conducting trenching operations, installing various above and below ground pipelines and components, temporarily stockpiling materials, and performing horizontal directional drilling (HDD) operations. Following construction, rights-of-way will be restored to pre-construction grade and allowed to revegetate to the extent allowed under United States Department of Transportation (USDOT) regulations. The 6.45-mile 24-inch Mainline Loop will temporarily disturb 5.72 acres of wetlands and permanently convert 0.01 acre of forested wetland to non-forested wetland (Figures 8-10). The 11.44-mile 42-inch Mainline Connector will temporarily disturb 28.34 acres of wetlands and permanently convert 3.97 acres of forested wetland to non-forested wetland (Figures 11-14). The modifications to Mainline 200-1 will temporarily disturb 19.31 acres of wetland; no permanent impacts are expected (Figure 15). The single contractor yard (Figure 16) will not have wetland impacts.

Compressor Stations: One new compressor station will be constructed (Figure 17) and station piping at one existing compressor station will be modified (Figure 18). Construction of the new compressor station will permanently fill 2.60 acres of wetlands; modification of piping at the existing compressor station will not affect wetlands.

Meter Stations: Three new meter stations will be constructed (Figures 19-21) and five existing meter stations will be modified (Figures 22-25 and the Trunkline/LNG Export Meter on Figure 1). Activities at the meter stations will temporarily disturb 1.70 acres of wetlands, permanently fill 0.38 acre of wetlands, and permanently convert 0.16 acre of forested wetland to non-forested wetland.

Total Impacts: The Project will impact a total of 273.48 acres of jurisdictional wetlands. Of these, approximately 218.40 acres will be permanently filled for the liquefaction facilities, additional construction workspaces, and aboveground facilities; no permanent fill is associated with the pipelines. Construction of pipelines and aboveground facilities will temporarily disturb approximately 55.07 acres of wetlands. Approximately 4.14 acres of forested wetlands will be permanently converted to non-forested wetlands within the pipeline rights-of-way and aboveground facilities.

Mitigation: The applicant proposes to compensate for unavoidable project-related wetland impacts through a Permittee-Responsible Mitigation (PRM) project in the Lower Calcasieu Watershed, involving approximately 559 acres of coastal prairie and bottomland hardwood habitat restoration (details under development with appropriate resource agencies), and credit purchase from a USACE-approved Mitigation Bank.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **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.** **Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.**

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 U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

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. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would not affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. 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 the proposed activity would have no effect on any listed 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 **16.4** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

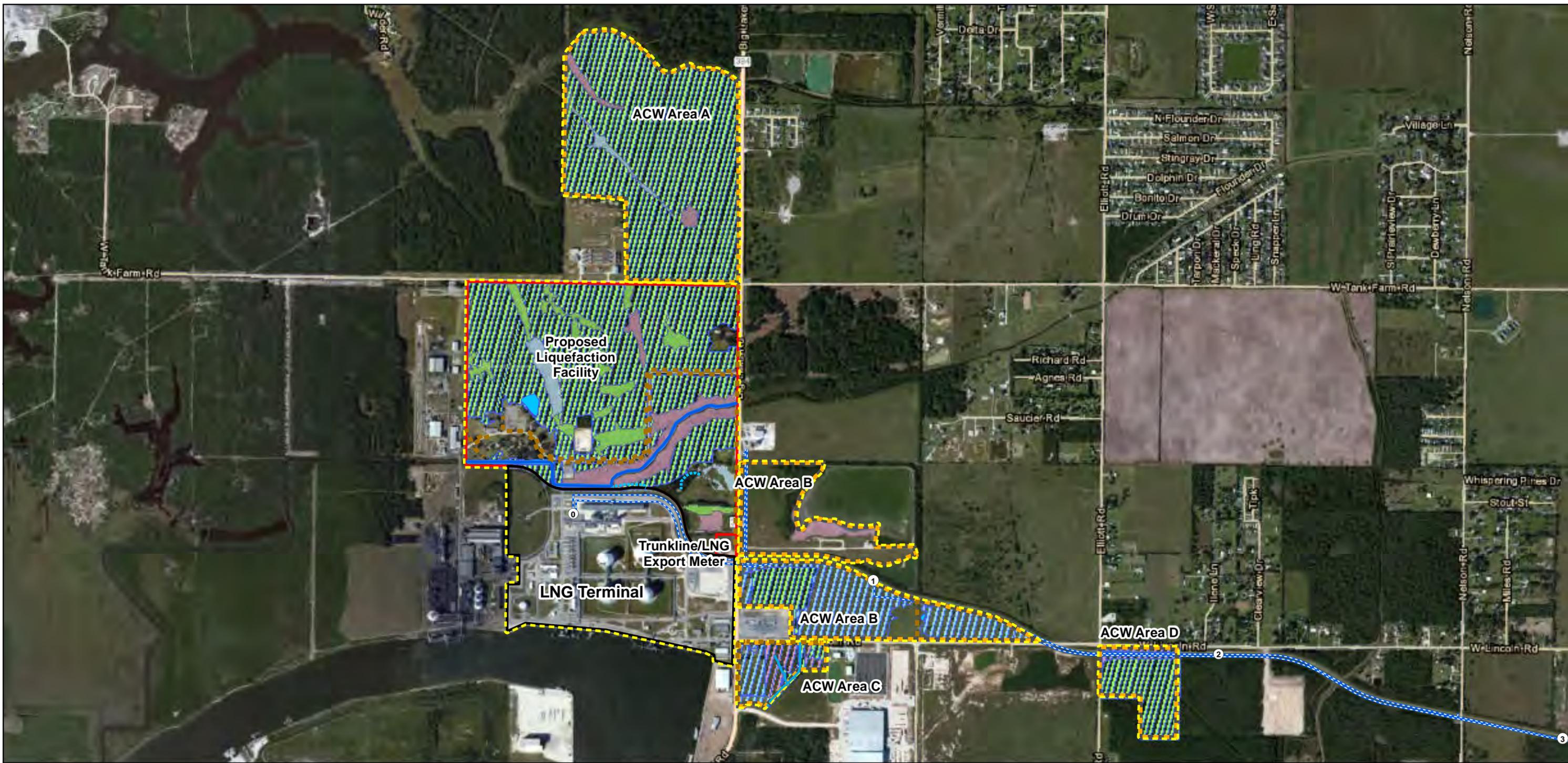
If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not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

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

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.

Darrell S. Barbara
Chief, Western Evaluation Section

Enclosure



Legend

Existing Facility	Access Road	Wetland	Perennial Stream
Proposed Permanent Easement	Contractor Yard	PAB	Intermittent Stream
Temporary Workspace	Study Area	PEM	Ephemeral Stream
HDD - Permanent Easement	Proposed Mainline Connector	PFO	Un-Classified Stream
Additional Temporary Workspace	Proposed Mainline 200-3 Loop	PSS	Drainage
Additional Construction Workspace	Existing TGC Pipelines	Mixed - Not Delineated	Waterbody
Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

0 500 1,000
Feet

Lake Charles Liquefaction Project

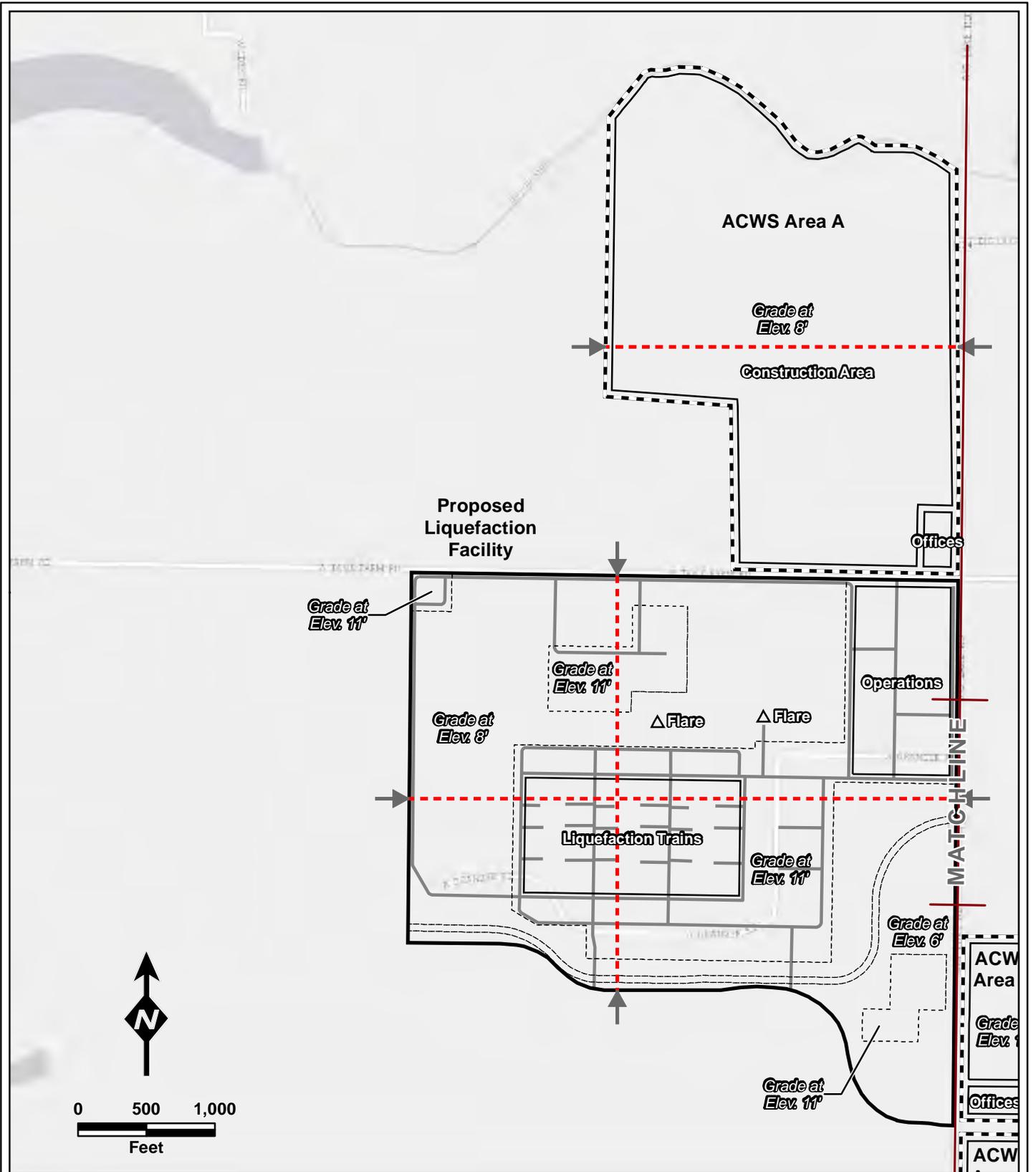
Jurisdictional Waters of the United States

Proposed Liquefaction Facility

Page 1 of 25

Prepared by TRC 4/15/2015

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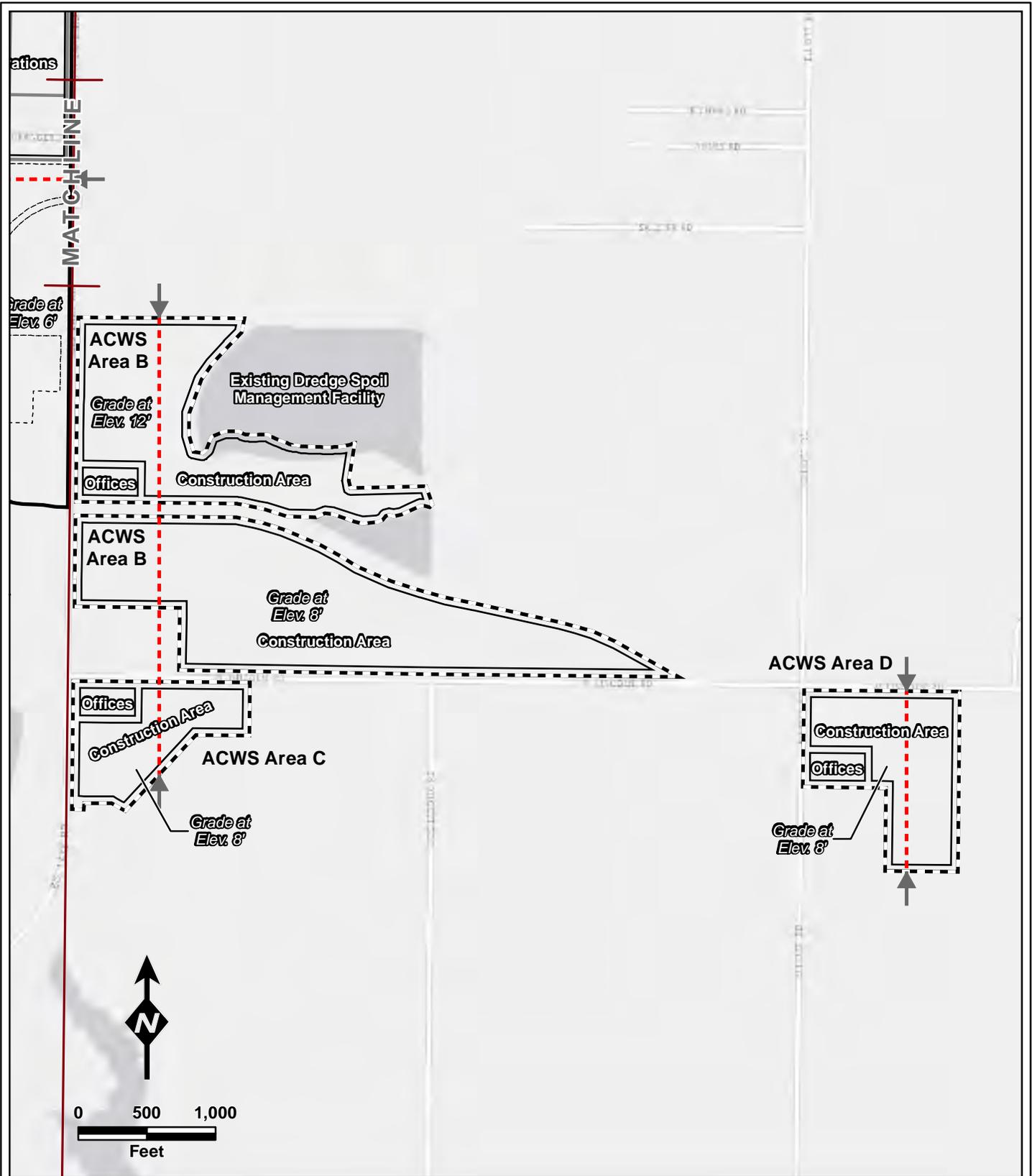


Legend	
	Proposed Liquefaction Facility
	Liquefaction Project Features
	Additional Construction Workspace (ACWS)
	Access Roads
	Cross Section

**Lake Charles
Liquefaction Project**

Proposed Liquefaction
Facility Layout
Sheet 1 of 2

Page 2 of 25

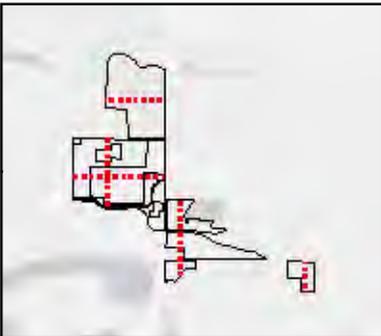
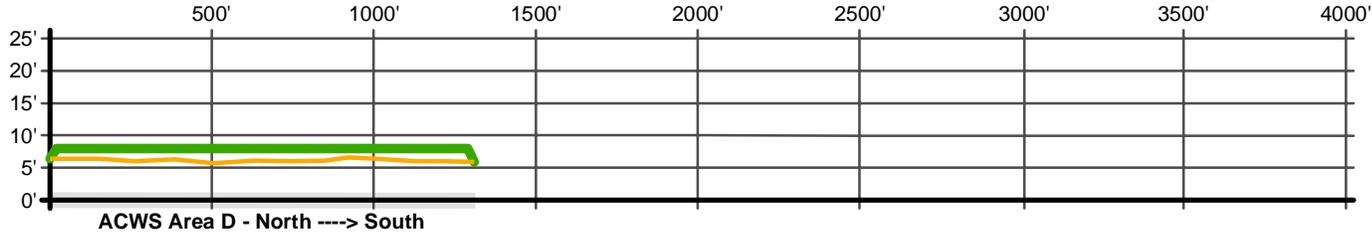
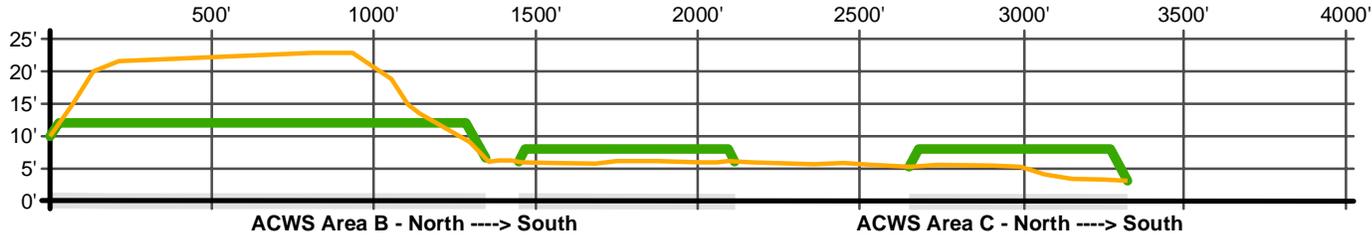
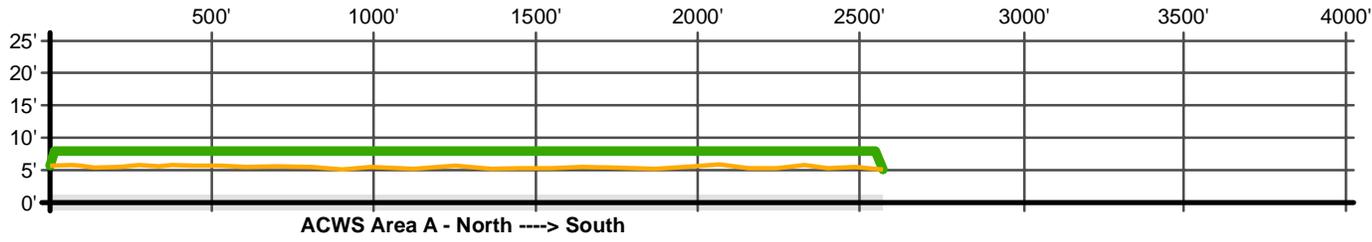
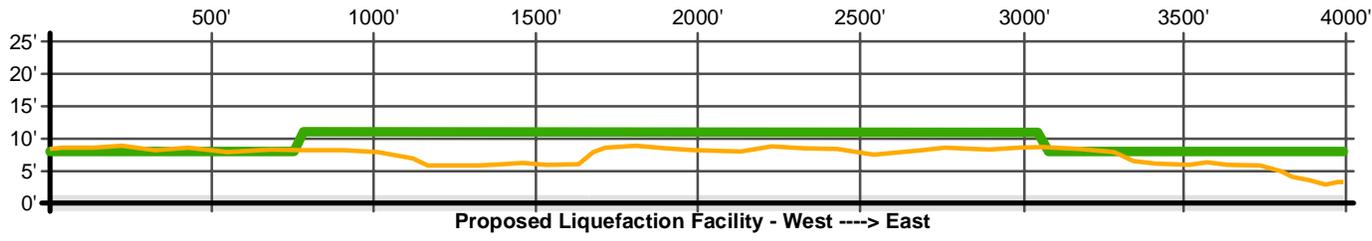
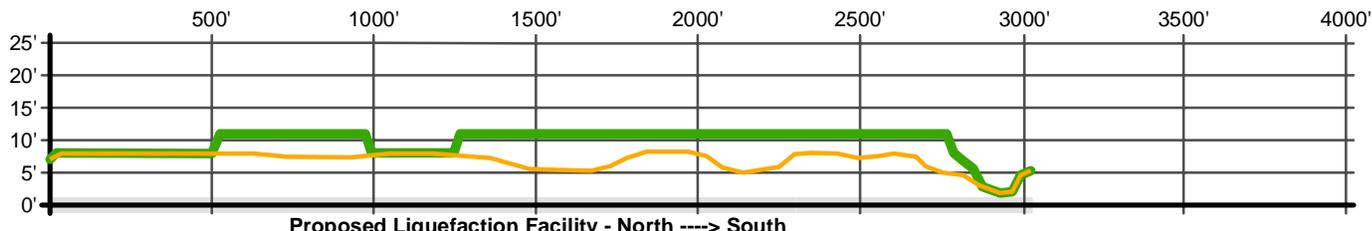


Legend	
	Proposed Liquefaction Facility
	Liquefaction Project Features
	Additional Construction Workspace (ACWS)
	Access Roads
	Cross Section

**Lake Charles
Liquefaction Project**

Proposed Liquefaction
Facility Layout
Sheet 2 of 2

Page 3 of 25



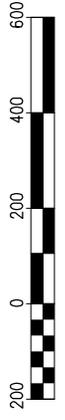
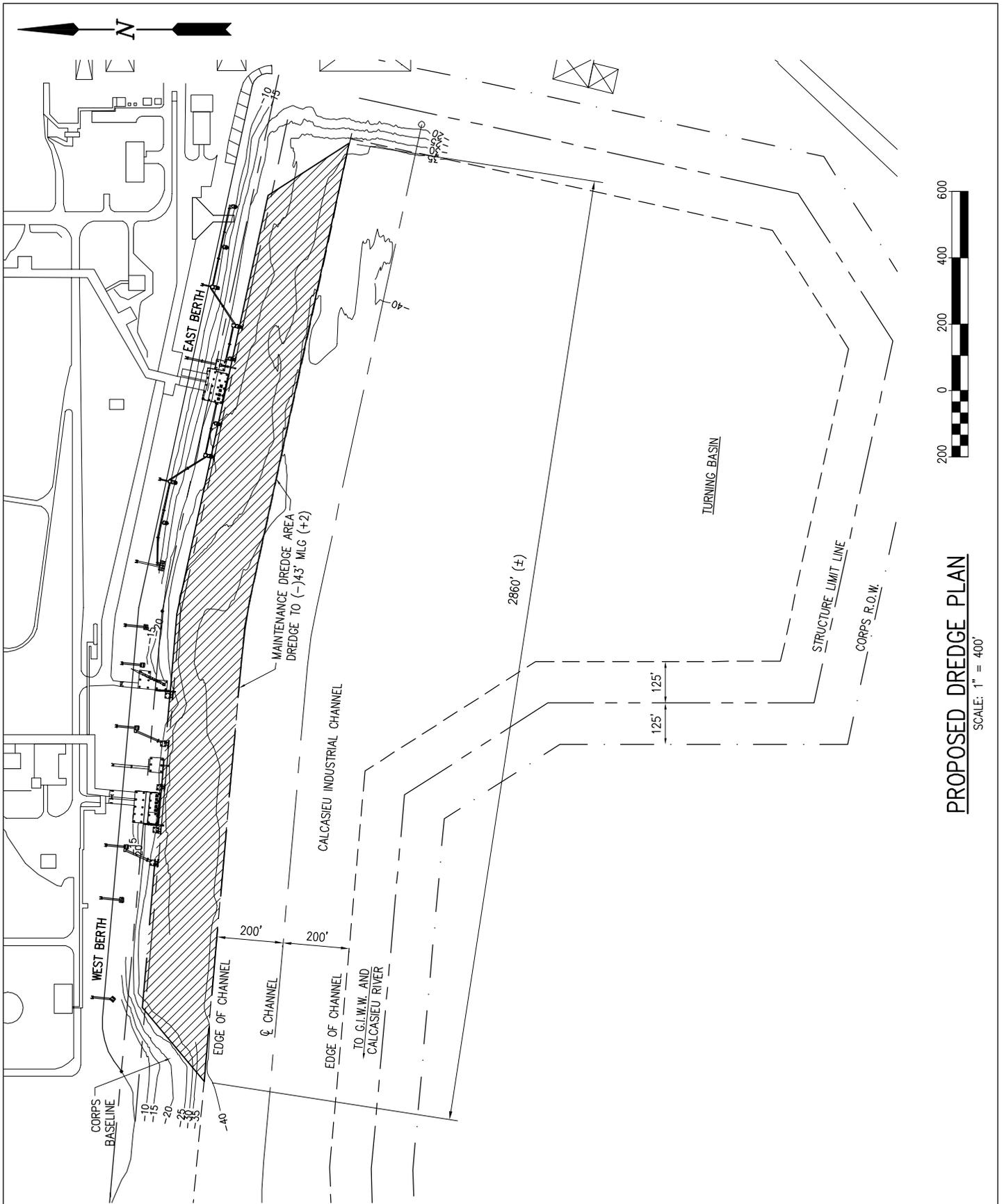
Legend

- Pre-Construction Elevation Profile
- Post-Construction Elevation Profile

**Lake Charles
Liquefaction Project**

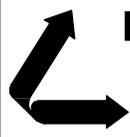
Proposed Liquefaction
Facility Cross Sections

Page 4 of 25



PROPOSED DREDGE PLAN
 SCALE: 1" = 400'

9583-P14

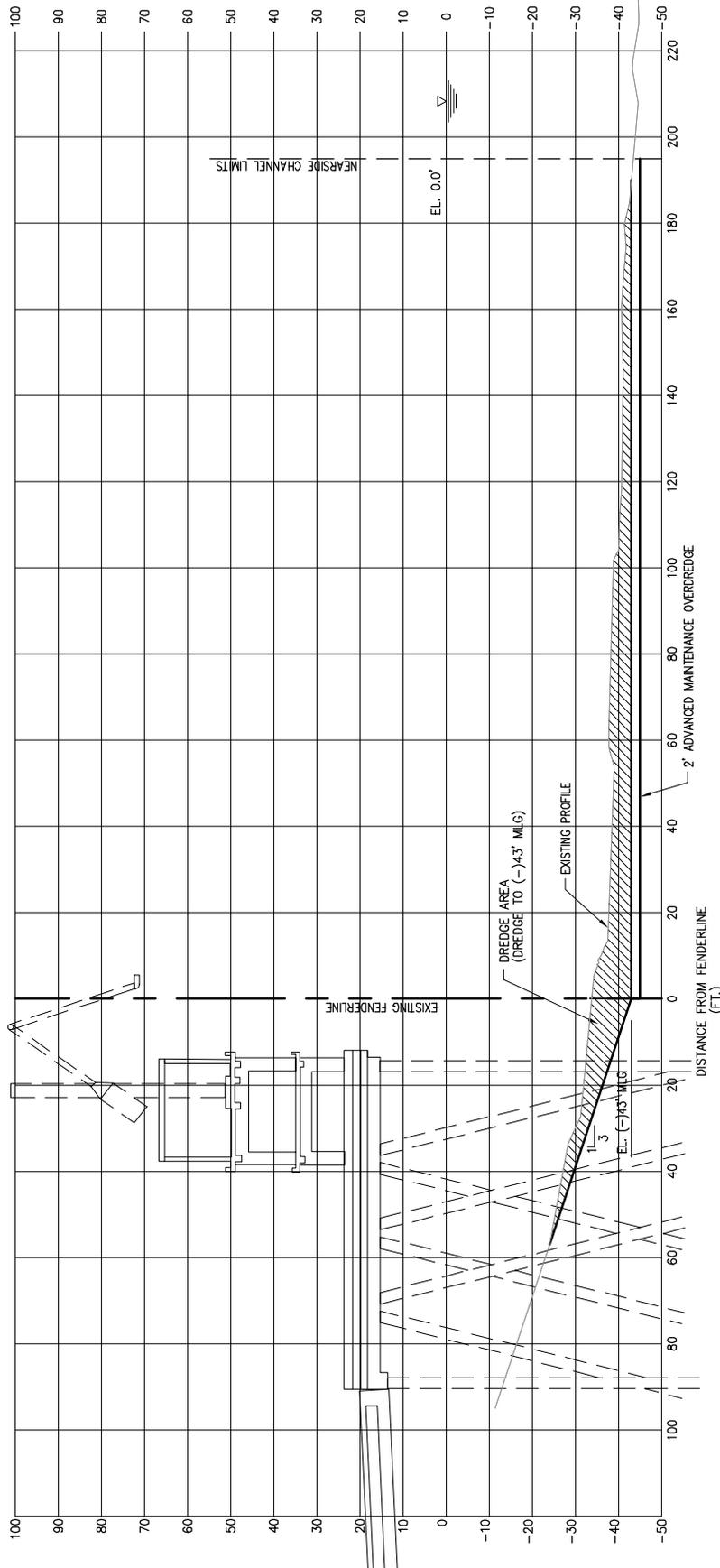


LANIER & ASSOCIATES
 CONSULTING ENGINEERS
 INCORPORATED
 NEW ORLEANS, LA · BEAUMONT, TX

TRUNKLINE LNG EXPORT, LLC
 LAKE CHARLES LOUISIANA

LAKE CHARLES LIQUEFACTION PROJECT
MARINE FACILITIES
PROPOSED DREDGE PLAN

DATE JUNE '14
 DESIGN JTM
 DRAWN JP
 CHECK JTM
 CONTRACT 9583
 SHEET No.
14 OF **18**



CROSS SECTION @ C/L OF EXIST WEST DOCK

SCALE: 1" = 40'



9583-P15

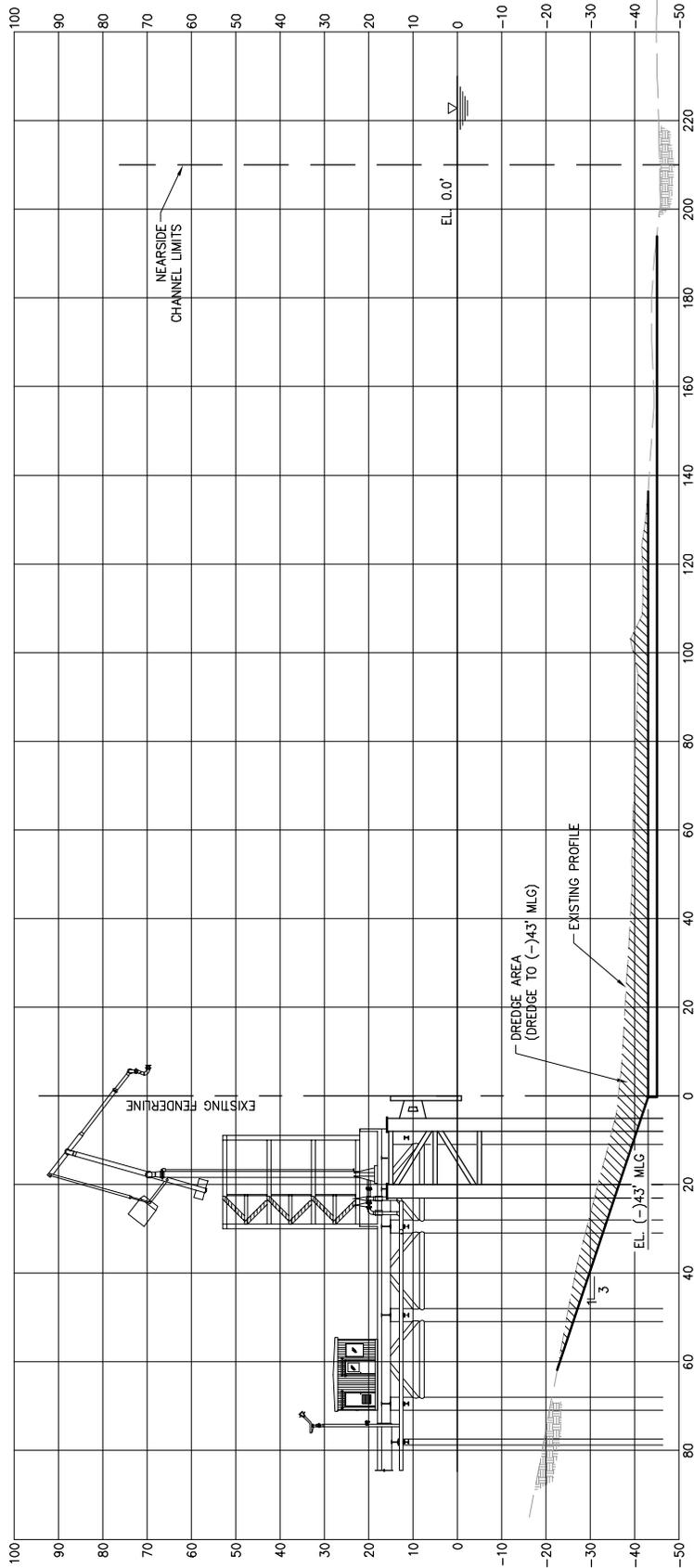


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TRUNKLINE LNG EXPORT, LLC
 LAKE CHARLES LOUISIANA

LAKE CHARLES LIQUEFACTION PROJECT
MARINE FACILITIES
CROSS SECTION @ C/L EXIST WEST DOCK

DATE	JUNE '14
DESIGN	JTM
DRAWN	JP
CHECK	JTM
CONTRACT	9583
SHEET No.	15 OF 18



CROSS SECTION @ C/L OF EXISTING EAST DOCK

SCALE: 1" = 40'



9583-P16



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NEW ORLEANS, LA · BEAUMONT, TX

TRUNKLINE LNG EXPORT, LLC
LAKE CHARLES LOUISIANA

LAKE CHARLES LIQUEFACTION PROJECT
MARINE FACILITIES
TYPICAL CROSS SECTION

DATE JUNE '14
DESIGN JTM
DRAWN JP
CHECK JTM
CONTRACT 9583
SHEET No.

16 OF 18



Legend

Existing Facility	Access Road	Wetland	Perennial Stream
Proposed Permanent Easement	Contractor Yard	PAB	Intermittent Stream
Temporary Workspace	Study Area	PEM	Ephemeral Stream
HDD - Permanent Easement	Proposed Mainline Connector	PFO	Un-Classified Stream
Additional Temporary Workspace	Proposed Mainline 200-3 Loop	PSS	Drainage
Additional Construction Workspace	Existing TGC Pipelines	Mixed - Not Delineated	Waterbody
Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

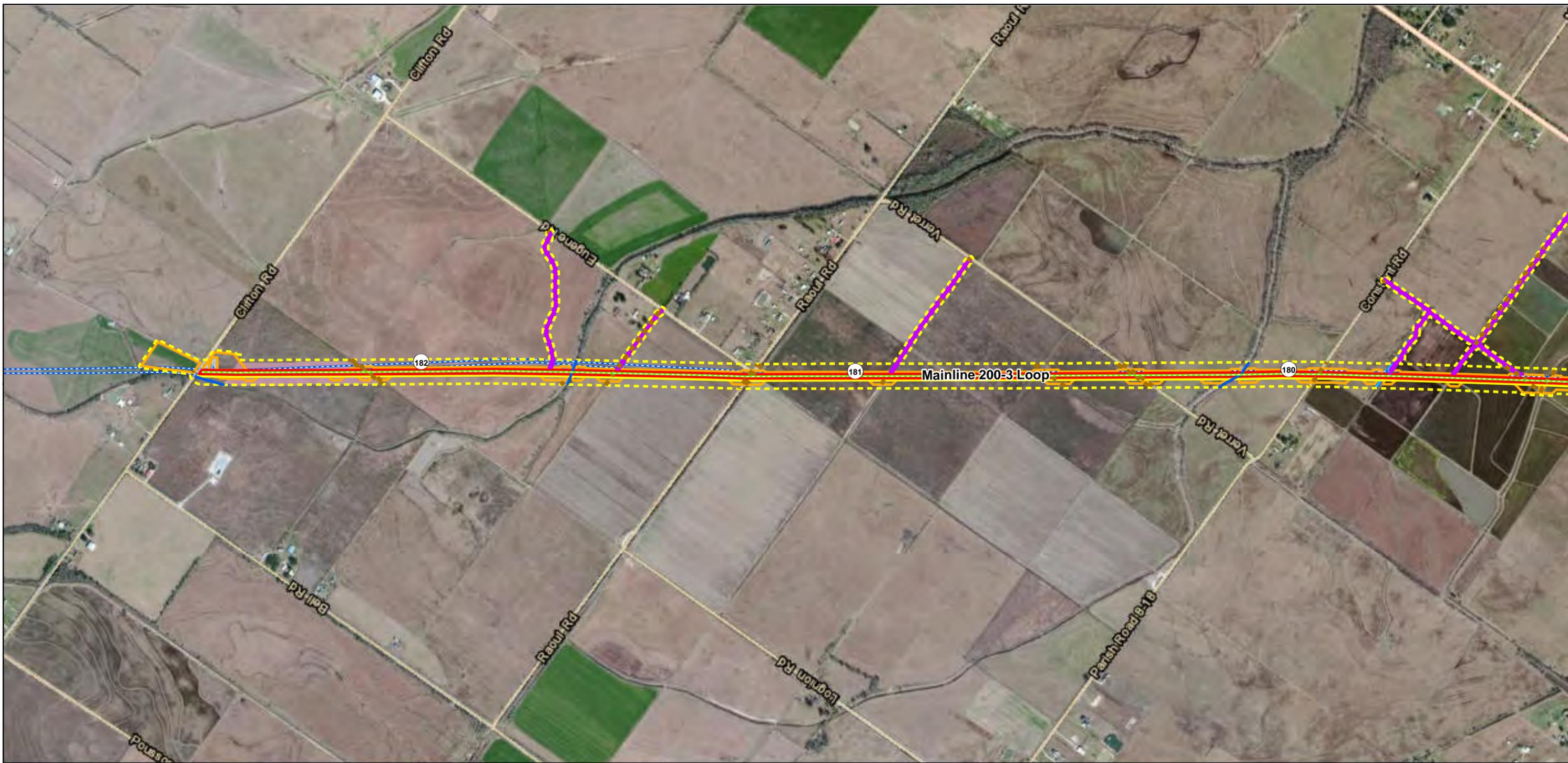
Lake Charles Liquefaction Project

Jurisdictional Waters
of the United States

Mainline 200-3 Loop
Page 8 of 25

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Results you can rely on

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Legend

<ul style="list-style-type: none"> Existing Facility Proposed Permanent Easement Temporary Workspace HDD - Permanent Easement Additional Temporary Workspace Additional Construction Workspace Upland Wetland 	<ul style="list-style-type: none"> Access Road Contractor Yard Study Area Proposed Mainline Connector Proposed Mainline 200-3 Loop Existing TGC Pipelines Mile Post 	<p>Wetland</p> <ul style="list-style-type: none"> PAB PEM PFO PSS Mixed - Not Delineated <p>Stream</p> <ul style="list-style-type: none"> Mosaic (PEM) Mosaic (PFO) Mosaic (PSS) Perennial Stream Intermittent Stream Ephemeral Stream Un-Classified Stream <p>Other</p> <ul style="list-style-type: none"> Drainage Waterbody
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0 500 1,000
Feet

Sources: LCLP, LDOTD, USGS, ESRI, TRC

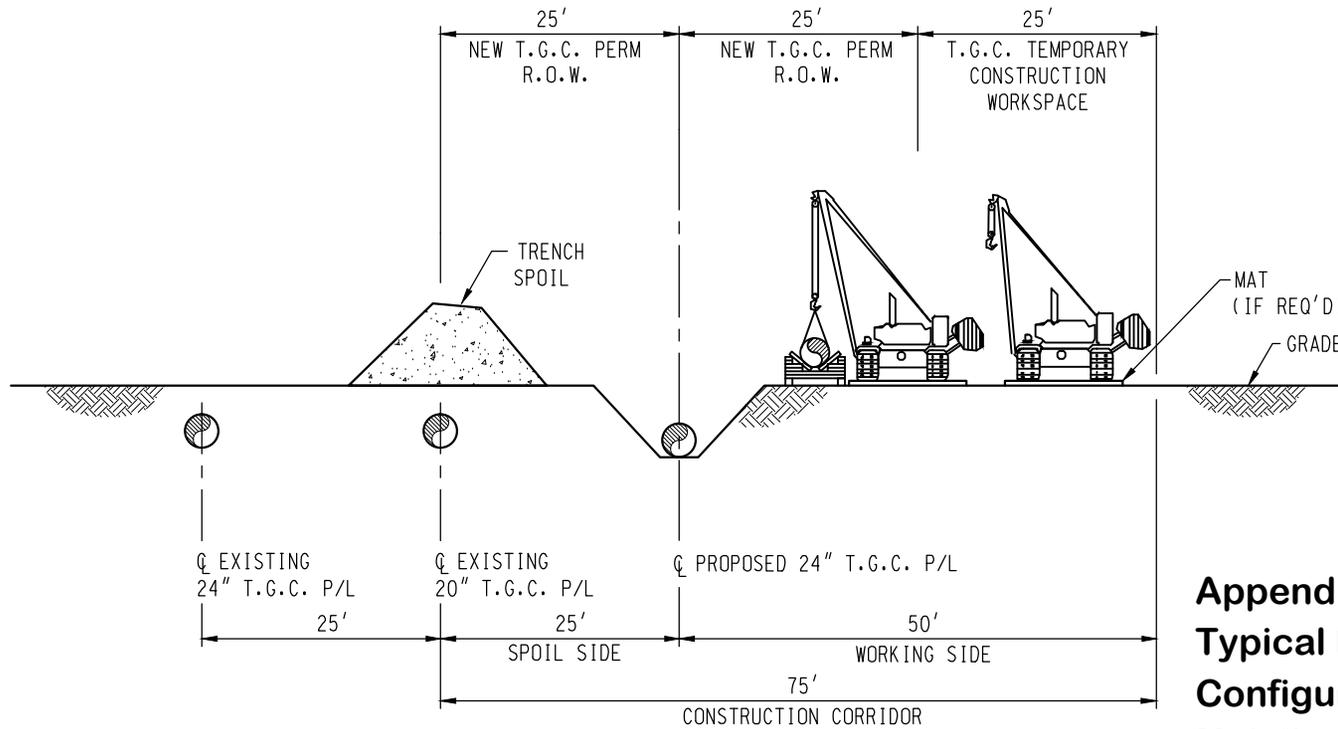
Lake Charles Liquefaction Project

Jurisdictional Waters
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Mainline 200-3 Loop
Page 9 of 25

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**Appendix 1-G.1b
Typical Right-of-Way
Configuration for
Mainline 200-3 Loop**

**TYPICAL ROW CONFIGURATION
LOOKING SOUTH EAST**

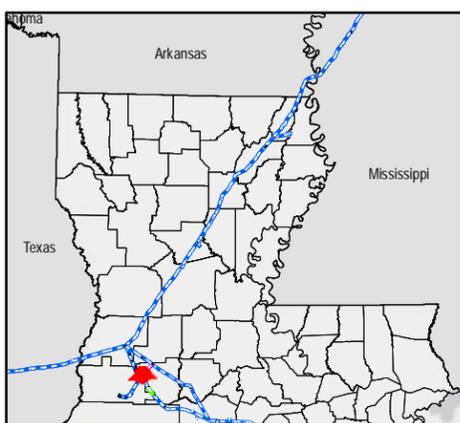
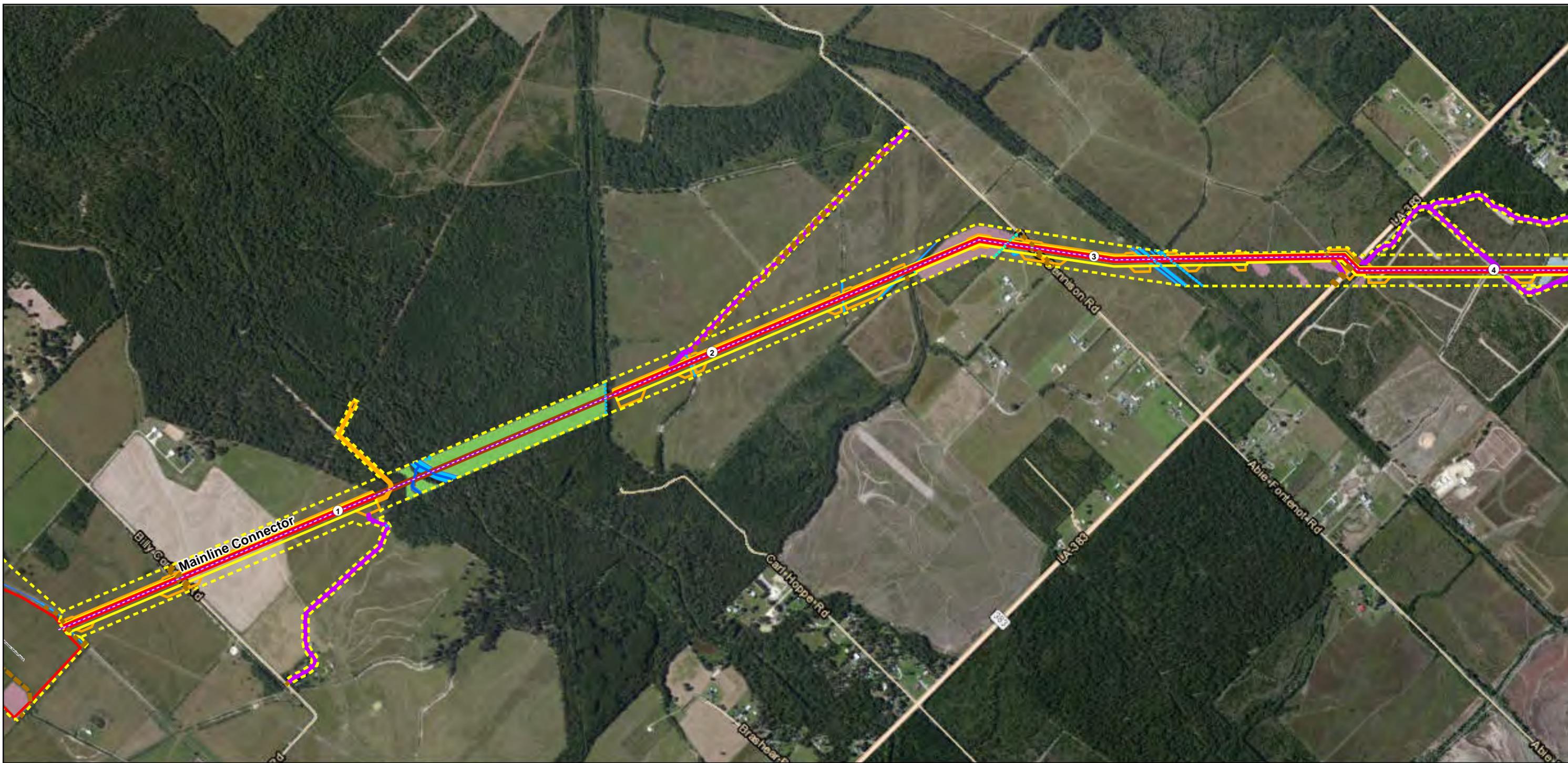
ISSUED FOR
PRELIMINARY
REVIEW
05/22/2013

NOTES:

- EROSION CONTROLS WILL BE INSTALLED AS WARRANTED BY SITE CONDITIONS IN ACCORDANCE WITH PERMITS AND AUTHORIZATION
- DRAWING FOR ENVIRONMENTAL PERMITTING PURPOSES ONLY
- ALL AREAS WILL BE RESTORED TO ORIGINAL GRADE AND CONTOURS



PIPELINE, STATION, OR ACCOUNT NUMBER		SCALE N.T.S.		CONST. YR. 2017		PROJECT NO. W.O. 569000919621	
FILENUMBER	CADD FILENAME			DRAWN PLH	DATE 05/22/13	PREVIOUS DWG. NO.	
REV. NO. - DESCRIPTION	BY	DATE	APP.			SHT. 1 OF 1	
						DWG. NO.	
						ROW TYPICAL 1	
A ISSUED PRELIMINARY	JM	05/22/13	JWV				
24" MAIN LINE LOOP LINE - 200-3 LINE LIQUIFICATION PROJECT TYPICAL ROW CONFIGURATION FROM M.P. 176.05 TO M.P. 182.51 CALCASIEU AND JEFFERSON DAVIS PARISHES, LOUISIANA							



Legend

Existing Facility	Access Road	Wetland	Perennial Stream
Proposed Permanent Easement	Contractor Yard	PAB	Intermittent Stream
Temporary Workspace	Study Area	PEM	Ephemeral Stream
HDD - Permanent Easement	Proposed Mainline Connector	PFO	Un-Classified Stream
Additional Temporary Workspace	Proposed Mainline 200-3 Loop	PSS	Drainage
Additional Construction Workspace	Existing TGC Pipelines	Mixed - Not Delineated	Waterbody
Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

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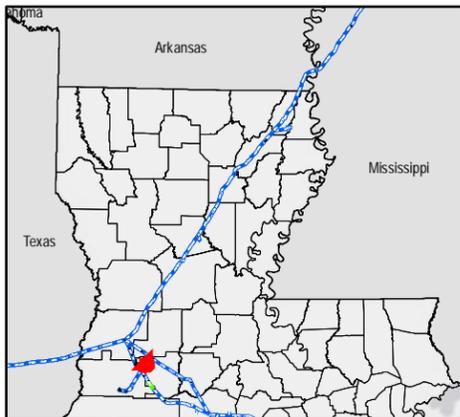
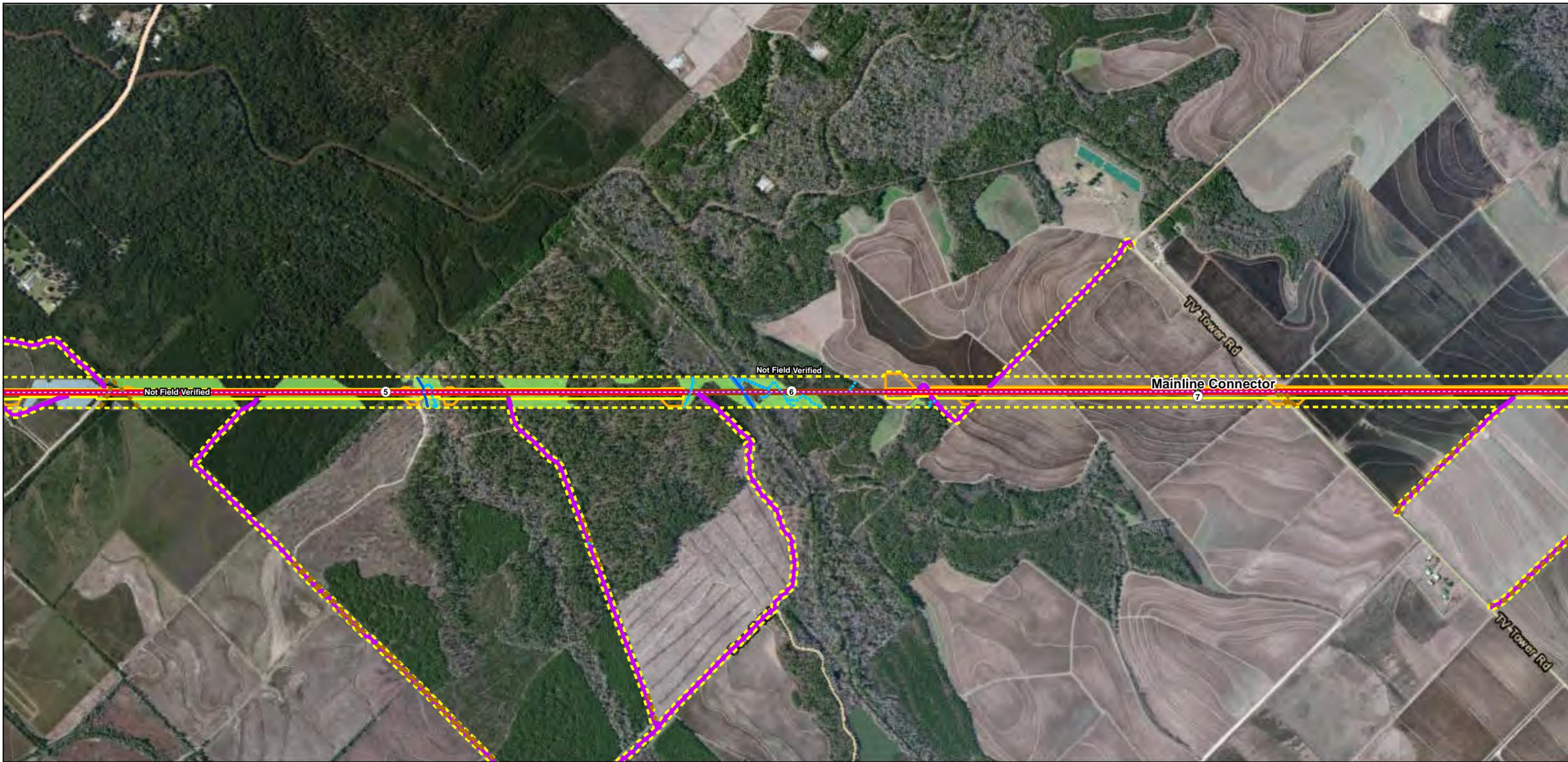
Lake Charles Liquefaction Project

Jurisdictional Waters of the United States

Mainline Connector

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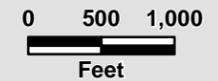
Prepared by TRC 4/15/2015
Results you can rely on



Legend

Existing Facility	Access Road	Wetland	Perennial Stream
Proposed Permanent Easement	Contractor Yard	PAB	Intermittent Stream
Temporary Workspace	Study Area	PEM	Ephemeral Stream
HDD - Permanent Easement	Proposed Mainline Connector	PFO	Un-Classified Stream
Additional Temporary Workspace	Proposed Mainline 200-3 Loop	PSS	Drainage
Additional Construction Workspace	Existing TGC Pipelines	Mosaic (PEM)	Waterbody
Transect	Mile Post	Mosaic (PFO)	
Upland		Mosaic (PSS)	
Wetland		Mixed - Not Delineated	

Sources: LCLP, LDOTD, USGS, ESRI, TRC



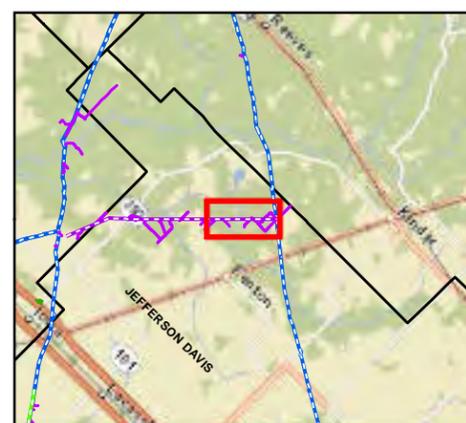
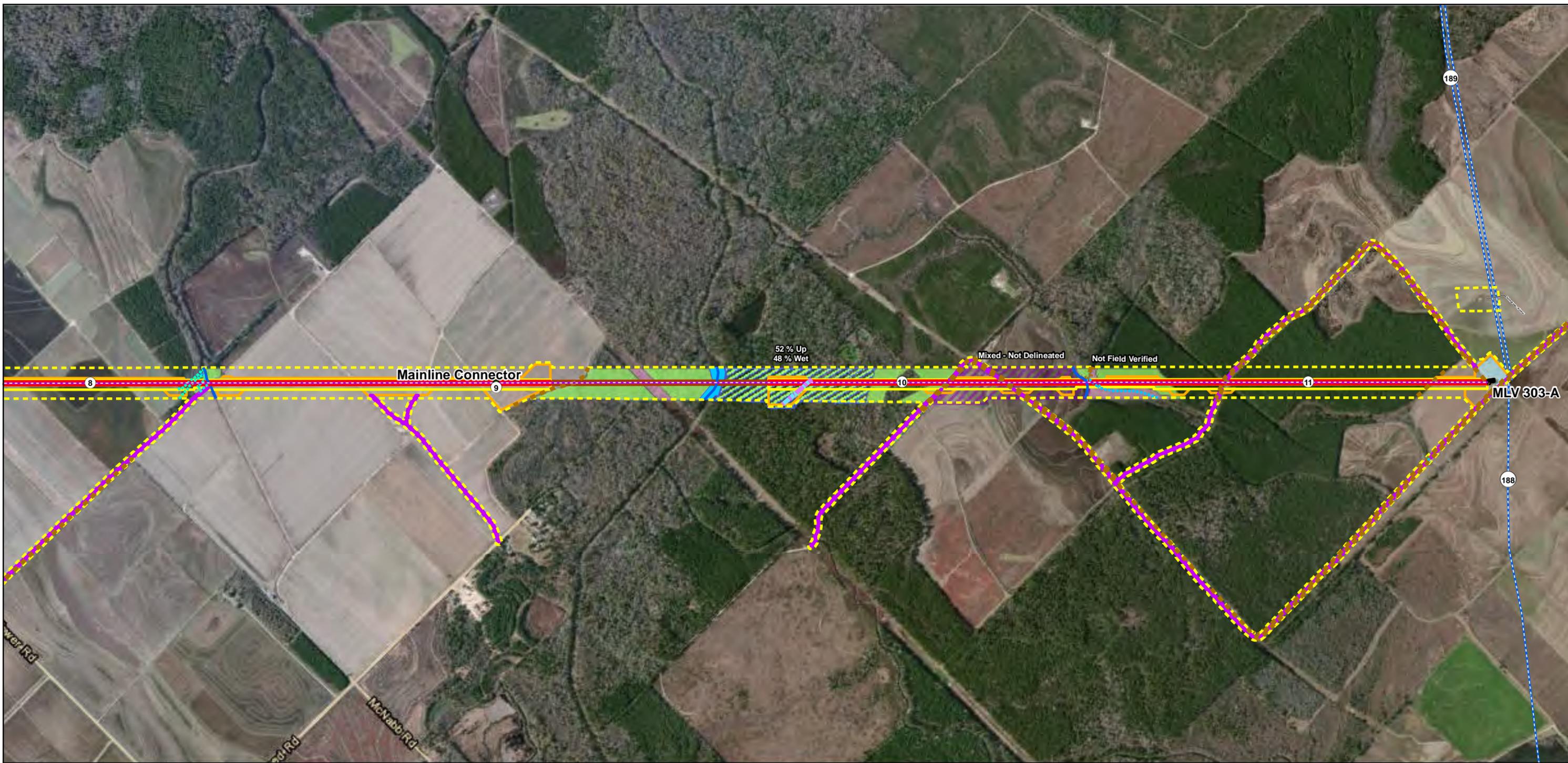
**Lake Charles
Liquefaction Project**

Jurisdictional Waters
of the United States

Mainline Connector

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Legend

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HDD - Permanent Easement	Proposed Mainline Connector	Mosaic (PEM)	Un-Classified Stream
Additional Temporary Workspace	Proposed Mainline 200-3 Loop	Mosaic (PFO)	Drainage
Additional Construction Workspace	Existing TGC Pipelines	Mosaic (PSS)	Waterbody
Transect	Mile Post	PSS	
Upland		Mixed - Not Delineated	
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

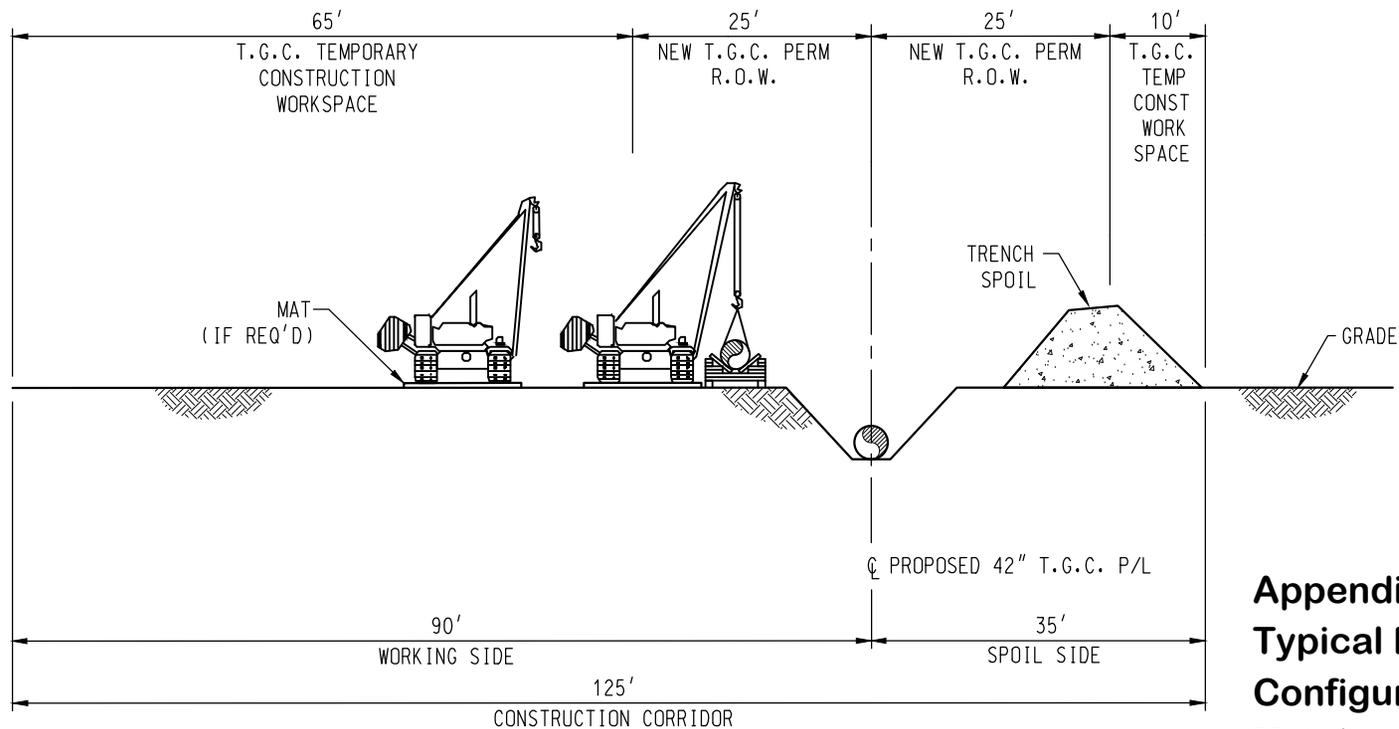
Lake Charles Liquefaction Project

Jurisdictional Waters of the United States

Mainline Connector
Page 13 of 25

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**Appendix 1-G.1a
Typical Right-of-Way
Configuration for
Mainline Connector**

TYPICAL ROW CONFIGURATION
LOOKING SOUTH WEST

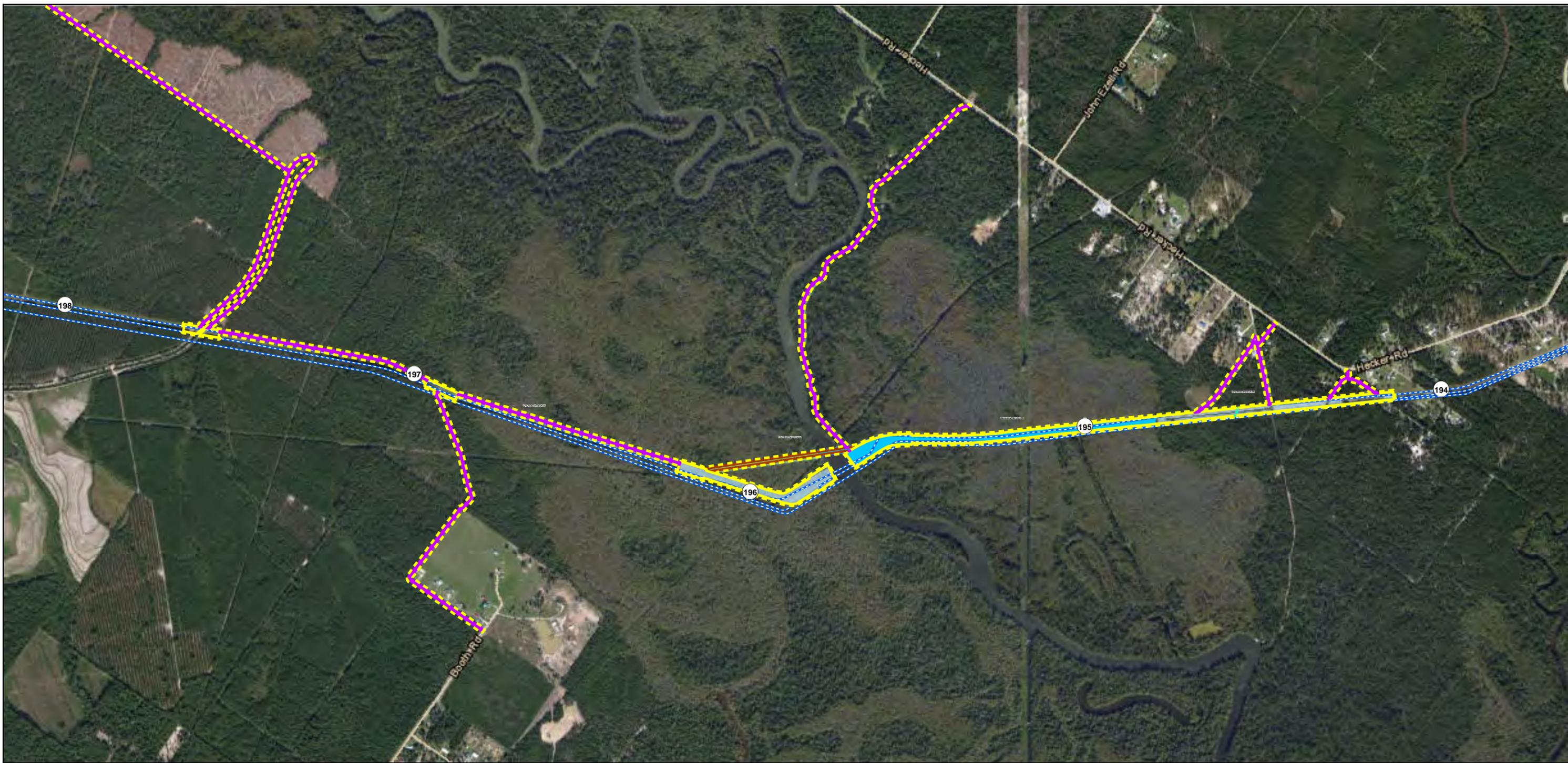
**ISSUED FOR
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REVIEW**
05/22/2013

NOTES:

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- ALL AREAS WILL BE RESTORED TO ORIGINAL GRADE AND CONTOURS



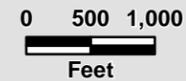
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FILENUMBER	CADD FILENAME	DRAWN PLH		DATE 05/22/13		PREVIOUS DWG. NO.	
REV. NO. - DESCRIPTION	BY	DATE	APP.	 <p>42" MAIN LINE CONNECTOR LIQUIFICATION PROJECT TYPICAL ROW CONFIGURATION FROM M.P. 0.00 TO M.P. 11.44 CALCASIEU AND JEFFERSON DAVIS PARISHES, LOUISIANA</p>			SHT. 1 OF 1
							DWG. NO.
							ROW TYPICAL 2
A ISSUED PRELIMINARY	JM	05/22/13	JWV				



Legend

Existing Facility	Access Road	Wetland	Perennial Stream
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Additional Construction Workspace	Existing TGC Pipelines	Mixed - Not Delineated	Waterbody
Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC



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Jurisdictional Waters of the United States

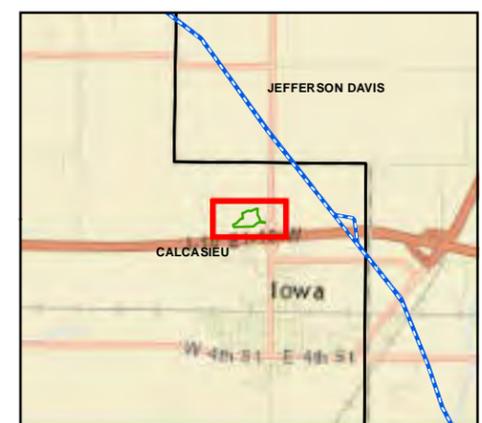
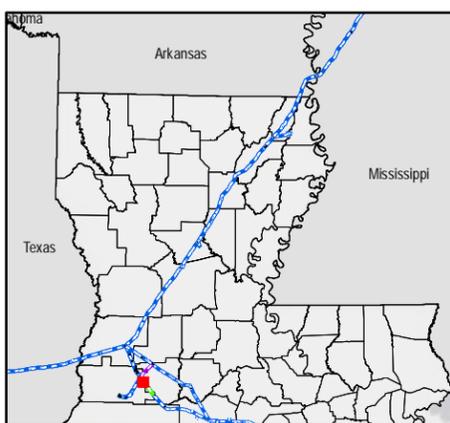
Calcasieu River HDD

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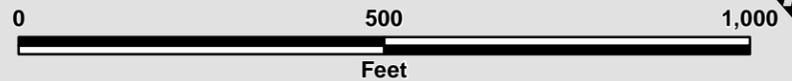
Contractor Yard



Legend

Existing Facility	Access Road	Wetland	Perennial Stream
Proposed Permanent Easement	Contractor Yard	PAB	Intermittent Stream
Temporary Workspace	Study Area	PEM	Ephemeral Stream
HDD - Permanent Easement	Proposed Mainline Connector	PFO	Un-Classified Stream
Additional Temporary Workspace	Proposed Mainline 200-3 Loop	PSS	Drainage
Additional Construction Workspace	Existing TGC Pipelines	Mixed - Not Delineated	Waterbody
Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

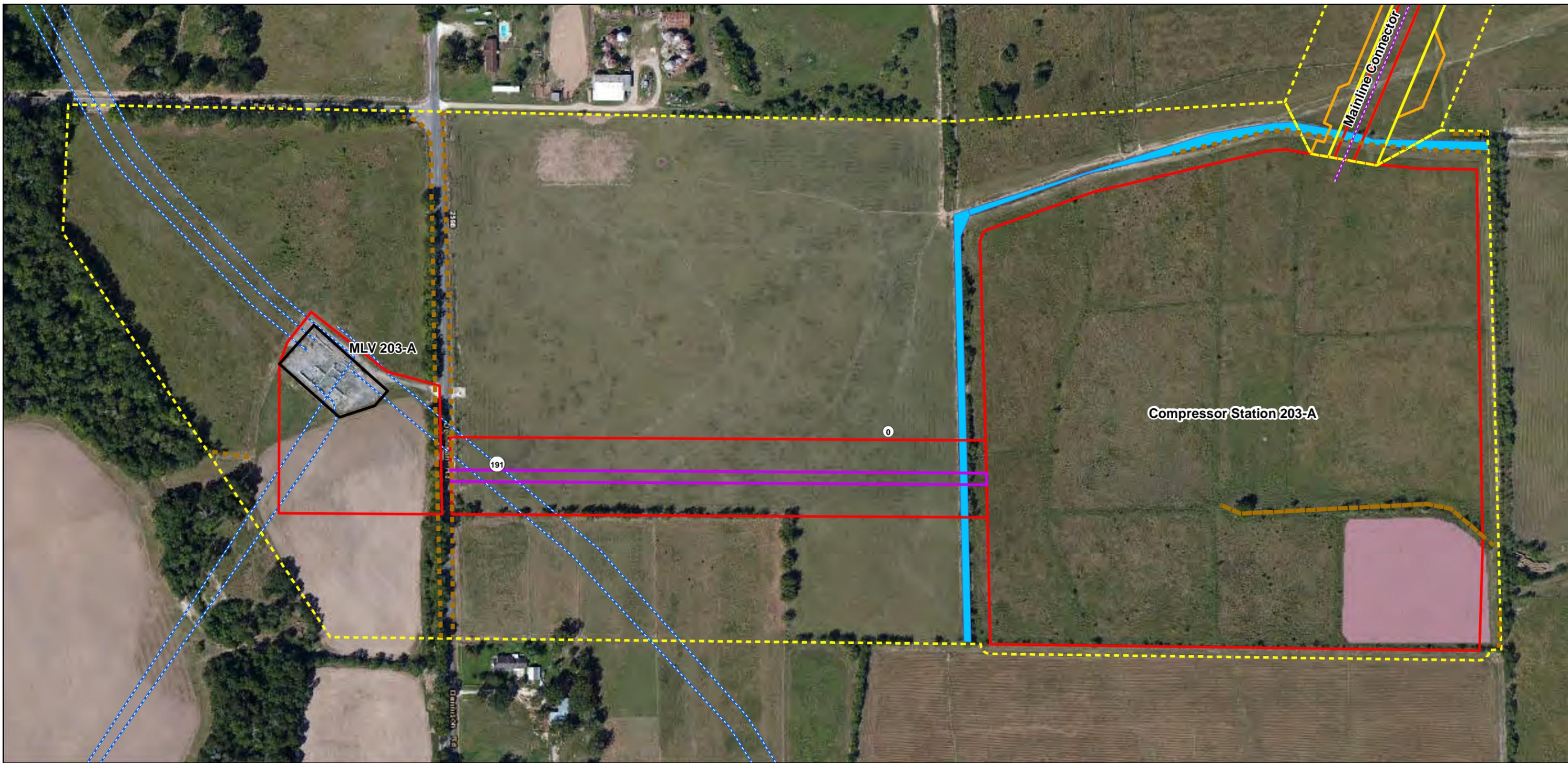


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Contractor Yard
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Legend

Existing Facility	Access Road	Wetland	Perennial Stream
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Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

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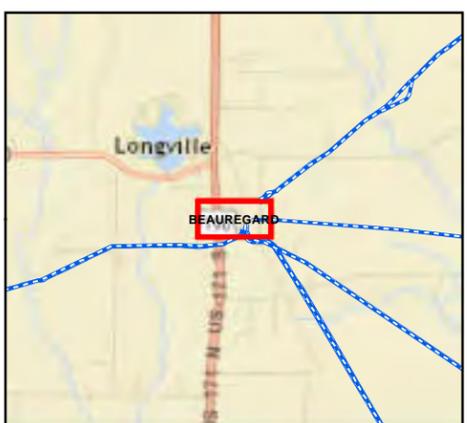
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Compressor Station 203-A

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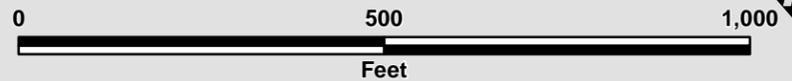
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Legend

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Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

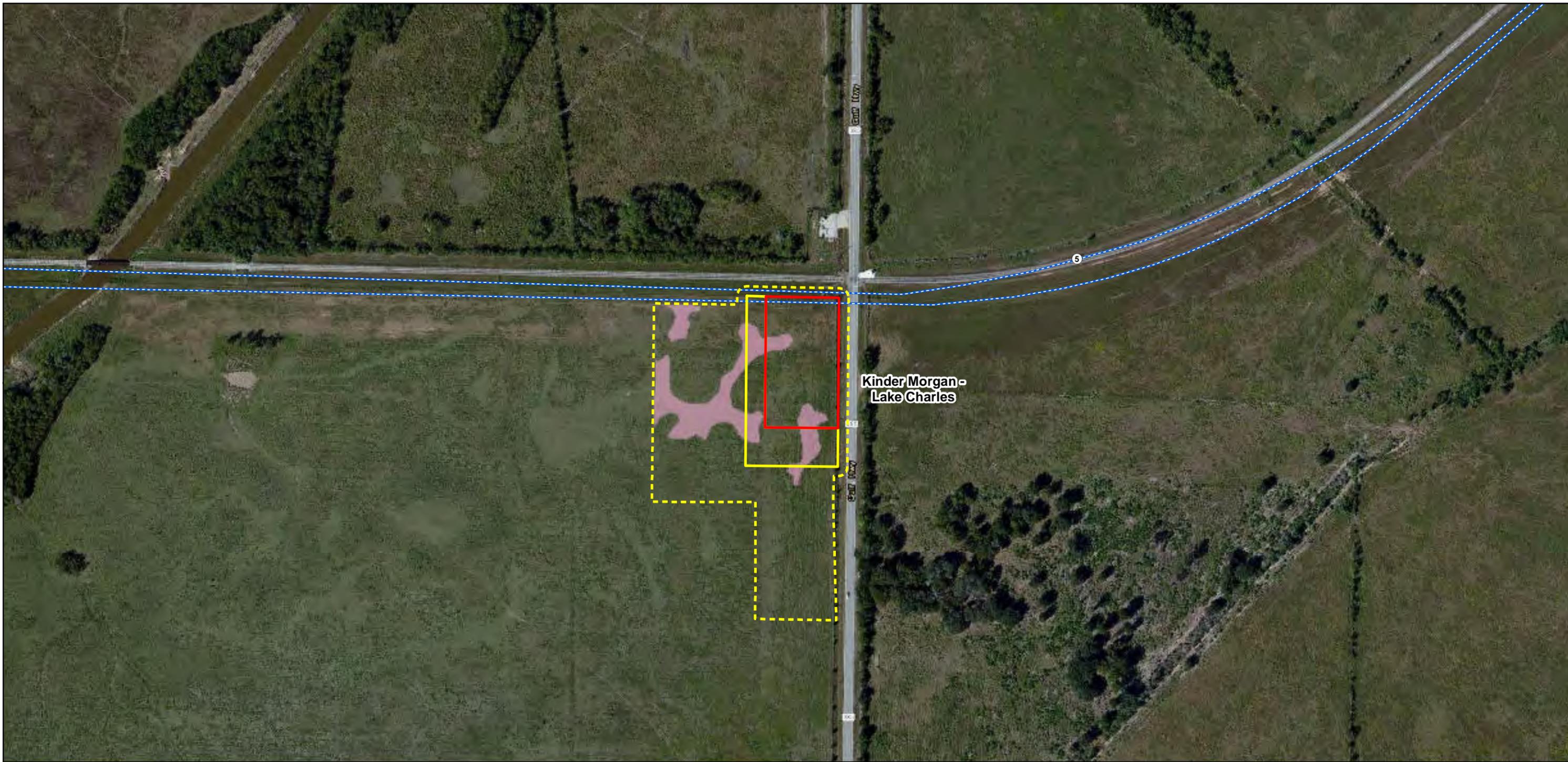


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Longville Compressor Station

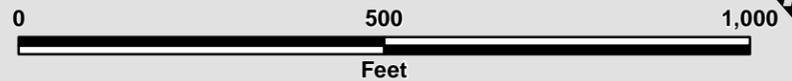
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Legend

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Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC



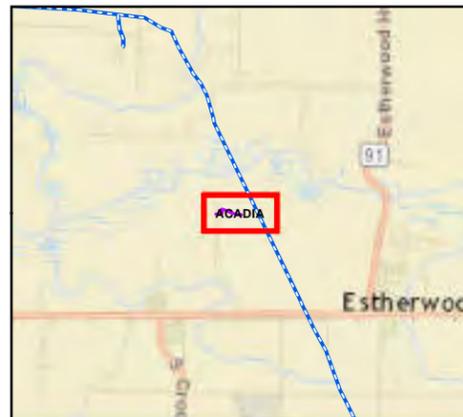
**Lake Charles
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Kinder Morgan - Lake Charles

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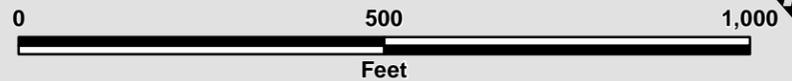
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Legend

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Transect	Mile Post		
Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC



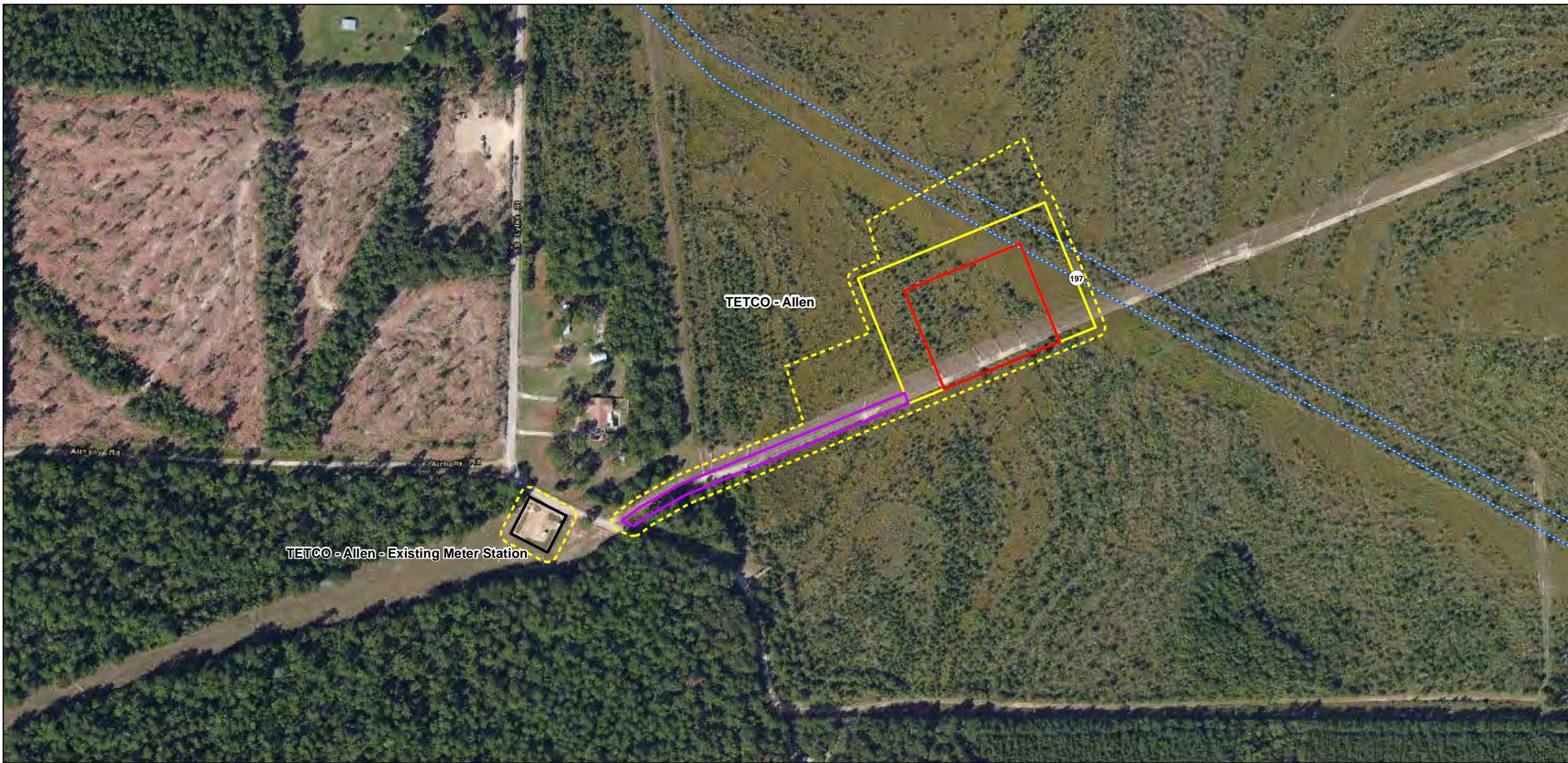
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Columbia Gulf - Eagan

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Legend

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Upland			
Wetland			

Sources: LCLP, LDOTD, USGS, ESRI, TRC

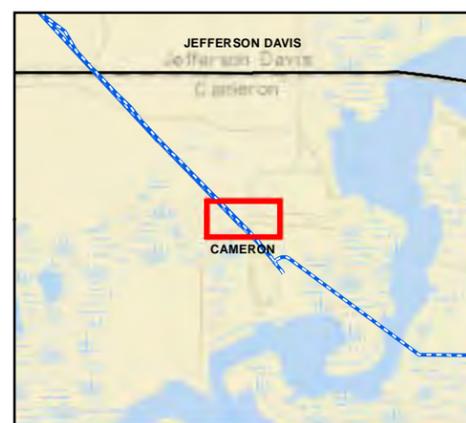
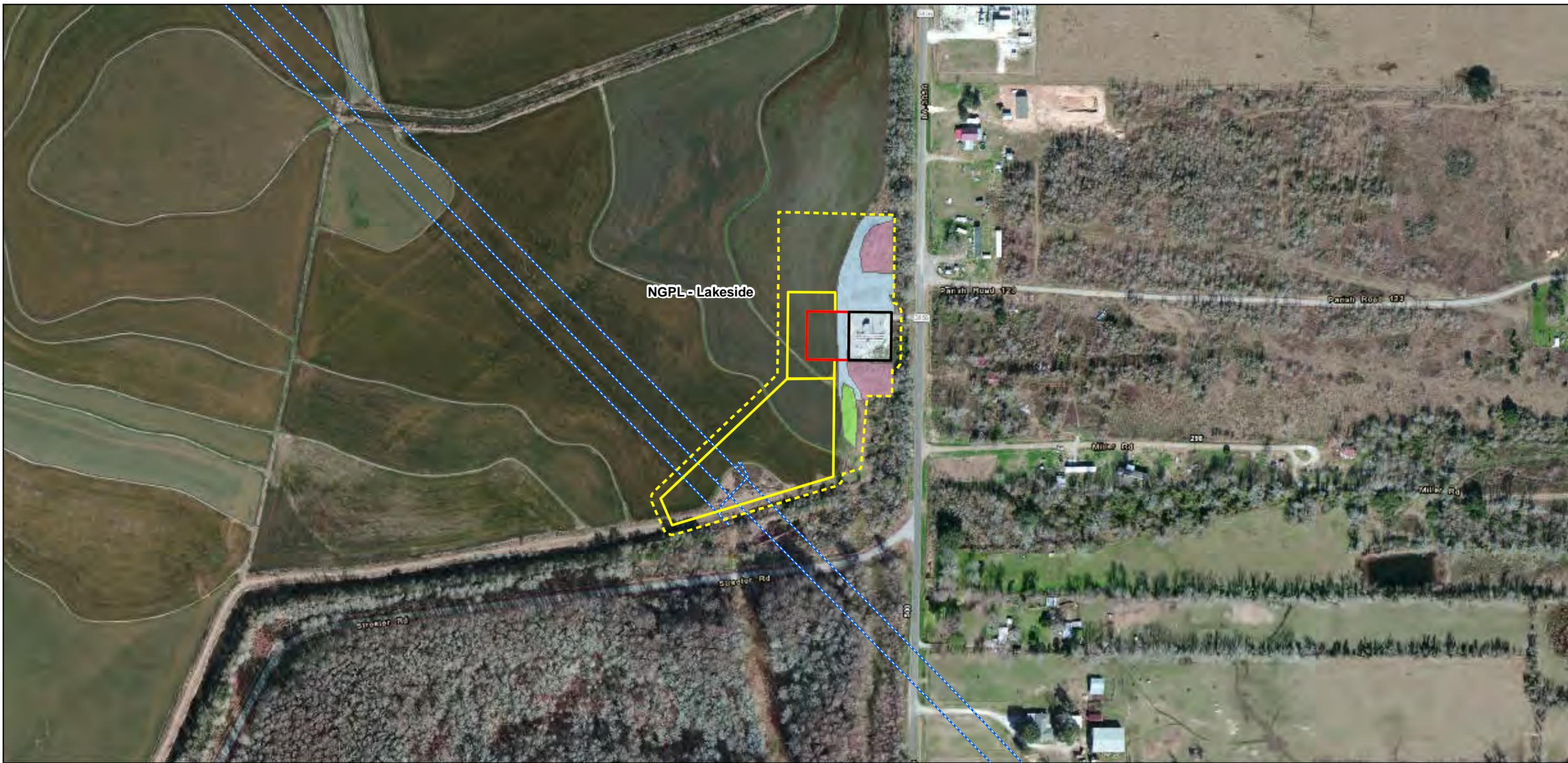
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TETCO - Allen
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Upland			
Wetland			

0 500 1,000
Feet

Sources: LCLP, LDOTD, USGS, ESRI, TRC

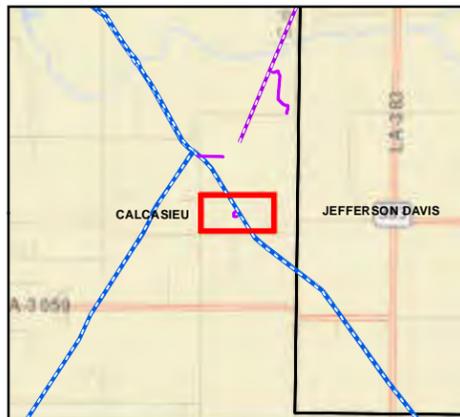
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NGPL - Lakeside
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Sources: LCLP, LDOTD, USGS, ESRI, TRC

**Lake Charles
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Texas Gas Woodlawn
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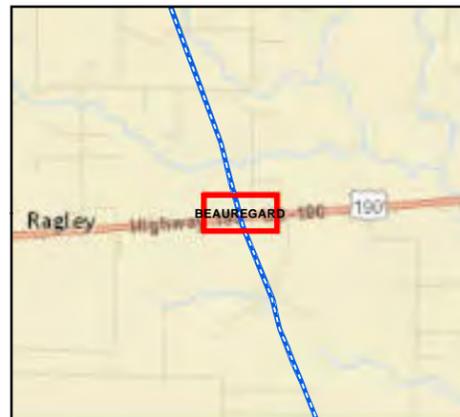
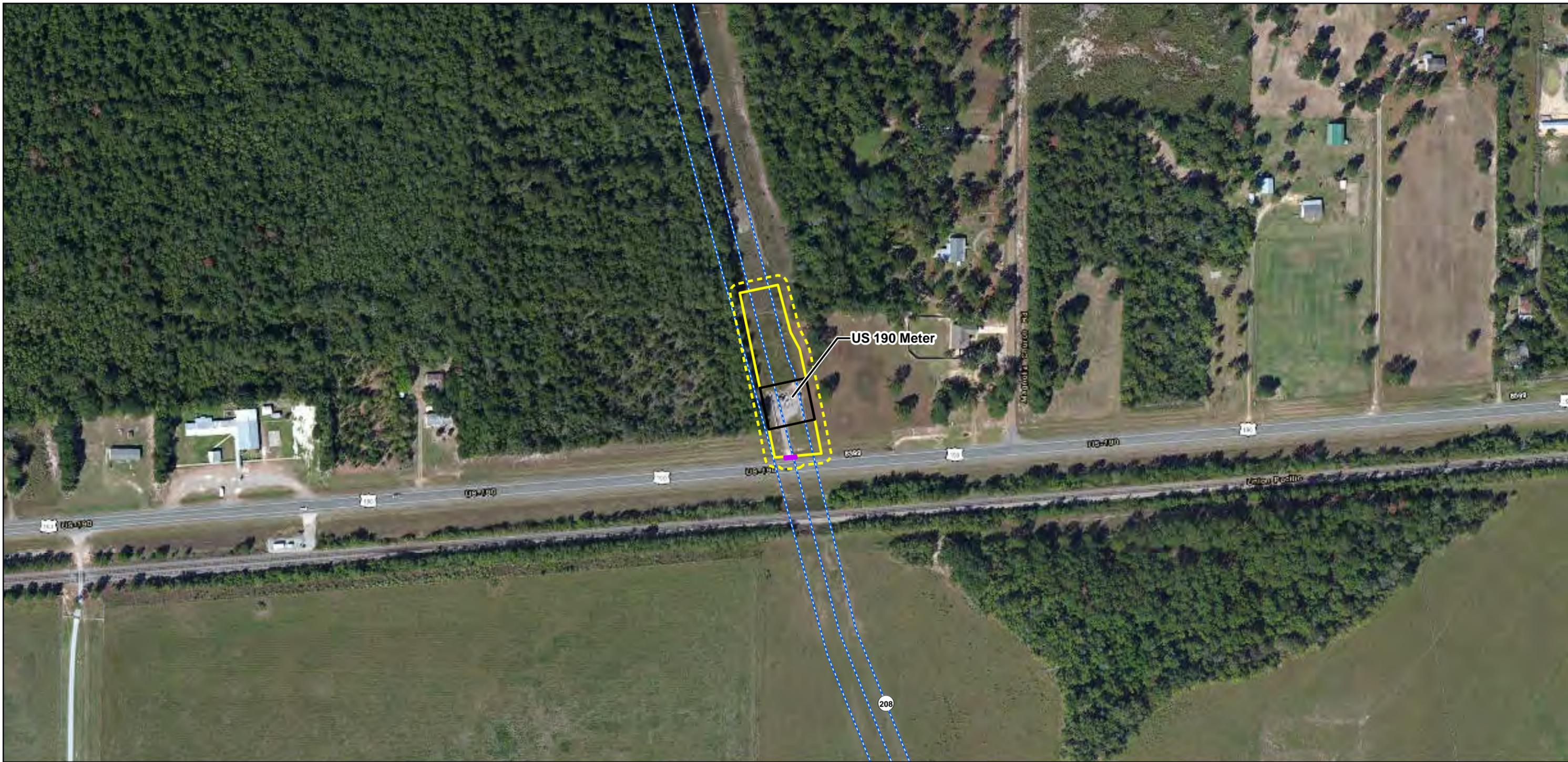
**Lake Charles
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Sources: LCLP, LDOTD, USGS, ESRI, TRC

**Lake Charles
Liquefaction Project**

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