



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

# JOINT PUBLIC NOTICE

January 17, 2022

United States Army  
Corps of Engineers  
New Orleans District  
Attn: Regulatory Division, RGW  
7400 Leake Ave.  
New Orleans, Louisiana 70118-3651

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

Project Manager:  
Amy Oestringer  
(504) 862-2272  
[Amy.l.oestringer@usace.army.mil](mailto:Amy.l.oestringer@usace.army.mil)  
Application #: MVN-2021-01265 WQQ

Project Manager  
Elizabeth Hill  
(225) 219-3225  
[DEQ-WaterQualityCertifications@la.gov](mailto:DEQ-WaterQualityCertifications@la.gov)  
WQC # 211229-01

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:  Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or  Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

## **HACKBERRY CARBON SEQUESTRATION PROJECT IN CAMERON PARISH**

**NAME OF APPLICANT:** Hackberry Carbon Sequestration, LLC, c/o: T. BAKER SMITH, LLC., Attn: Brady Trahan, 107 Global Circle Lafayette, Louisiana 70503.

**LOCATION OF WORK:** Located in Hackberry, Louisiana, in Cameron Parish, LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20, T12S-R11W, SECTIONS 12 & 13, as shown within the attached drawings. (Hydrologic Unit Code 08080206, within the Calcasieu River Basin)

**CHARACTER OF WORK:** A carbon sequestration project including installation of a CO<sub>2</sub> injection well, a 6" suction pipeline (~30,720' in length), a 12" injection pipeline (~15,026' in length), and facility with boathouse and gangplank. Approximately 465,485 cubic yards of native will be excavated for access and pipeline installation, spoil material will be beneficially placed to support marsh creation. Project implementation will impact approximately 290.14 acres of open waters temporarily, approximately 16.94 acres of wetlands temporarily, and approximately 0.17 acres of marsh permanently. If a Department of the Army permit is warranted, the applicant has proposed to mitigate unavoidable permanent wetlands impacts at an approved and acceptable mitigation bank within the N.O. District, if deemed necessary.

The comment period on the requested Department of the Army Permit will close **20 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the Corps of Engineers project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGW, Amy Oestringer.** Individuals or parties may also request an extension of time in which to comment on the proposed work by mail or preferably by emailing the specified project manager listed above. Any request for an extension of time to comment 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 and inclusive of the initial comment period and will not exceed a total of 30 calendar days.

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

Our initial finding is that the proposed work would neither 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. Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project is not likely to adversely affect the West Indian Manatee with the addition of permit special conditions for in water activities, and may affect the threatened Eastern Black Rail (*Laterallus jamaicensis* spp. *Jamaicensis*), further consultation is required.

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

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

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.

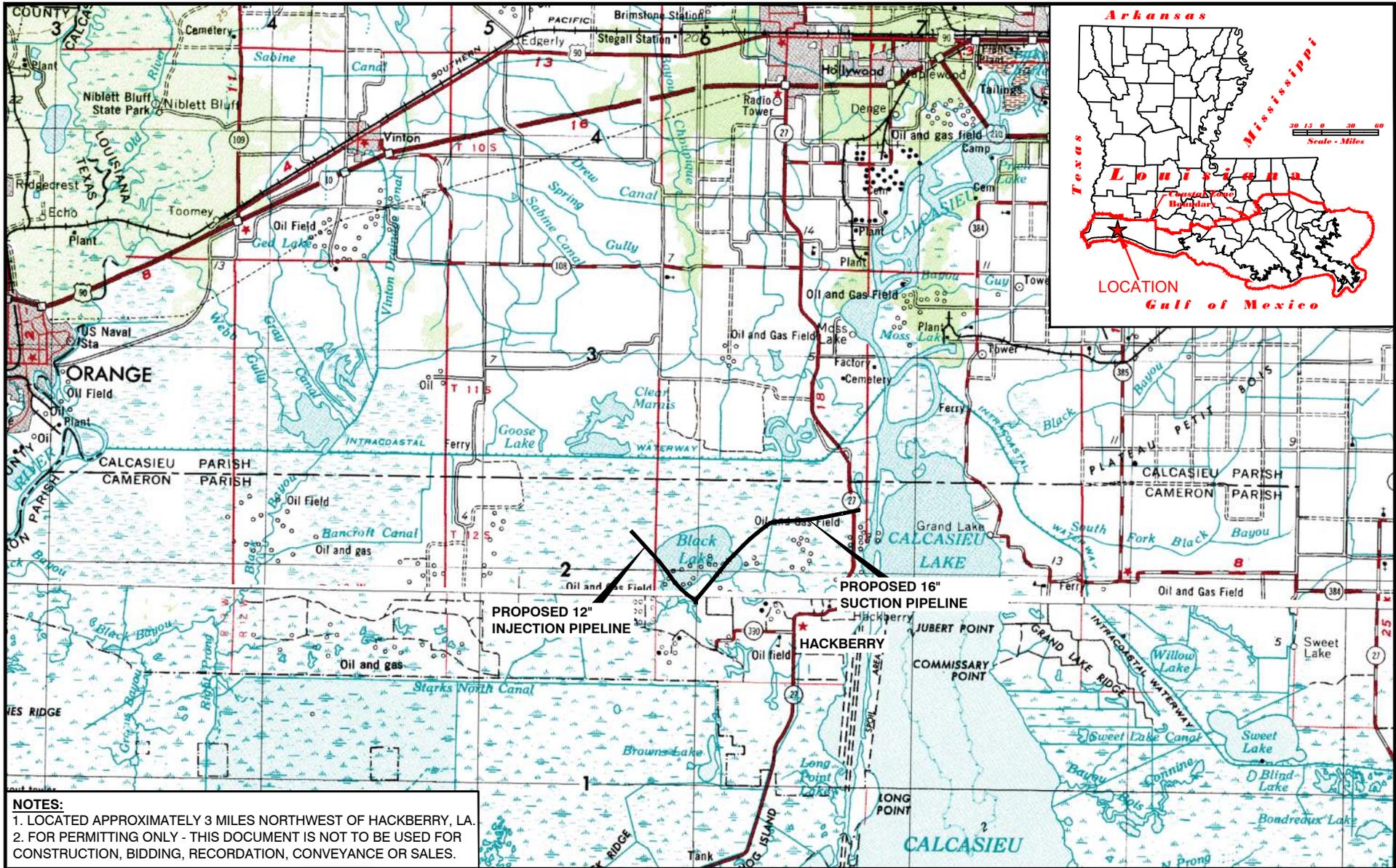
Any person may request, (preferably by email to the project manager, or in writing), within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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

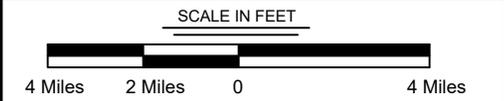
Darrell S. Barbara  
Chief, Western Evaluation Branch  
Regulatory Division

Enclosure

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S1\_REV4.DWG



**NOTES:**  
 1. LOCATED APPROXIMATELY 3 MILES NORTHWEST OF HACKBERRY, LA.  
 2. FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.



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| DRAWN BY: JPD                     | APPROVED BY: ADM  |
| DATE: 06/28/2021                  | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S1_REV4.DWG |                   |
| SHEET NO: 1 OF 59                 |                   |

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 107 Global Circle, Lafayette, LA 70503  
 (337) 735-2800 - tbsmith.com

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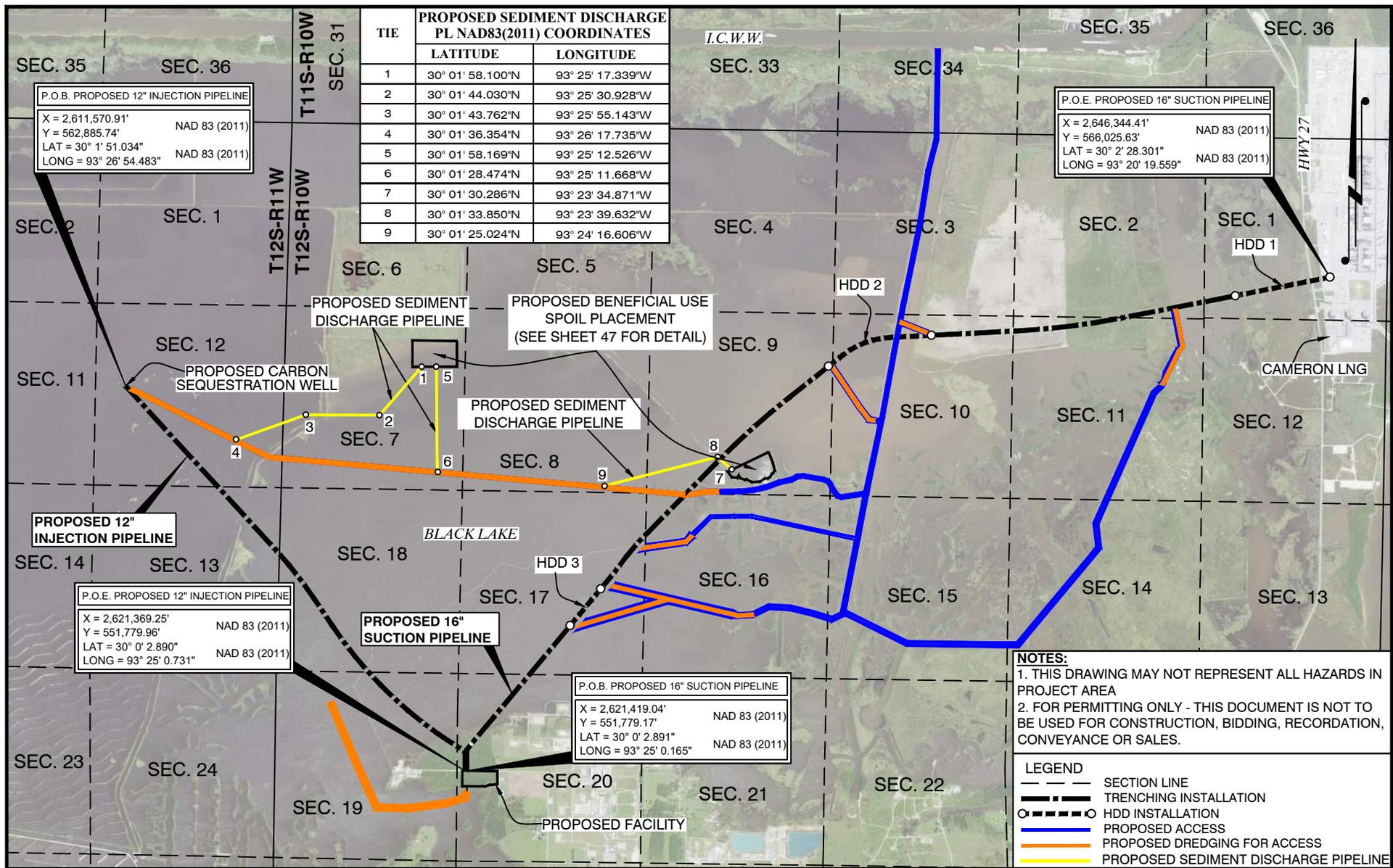
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 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY VICINITY MAP**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

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**NOTES:**  
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**LEGEND**  
 - - - SECTION LINE  
 - - - TRENCHING INSTALLATION  
 ○ - - - HDD INSTALLATION  
 - - - PROPOSED ACCESS  
 - - - PROPOSED DREDGING FOR ACCESS  
 - - - PROPOSED SEDIMENT DISCHARGE PIPELINE

SCALE IN FEET  
 4000' 2000' 0' 4000'

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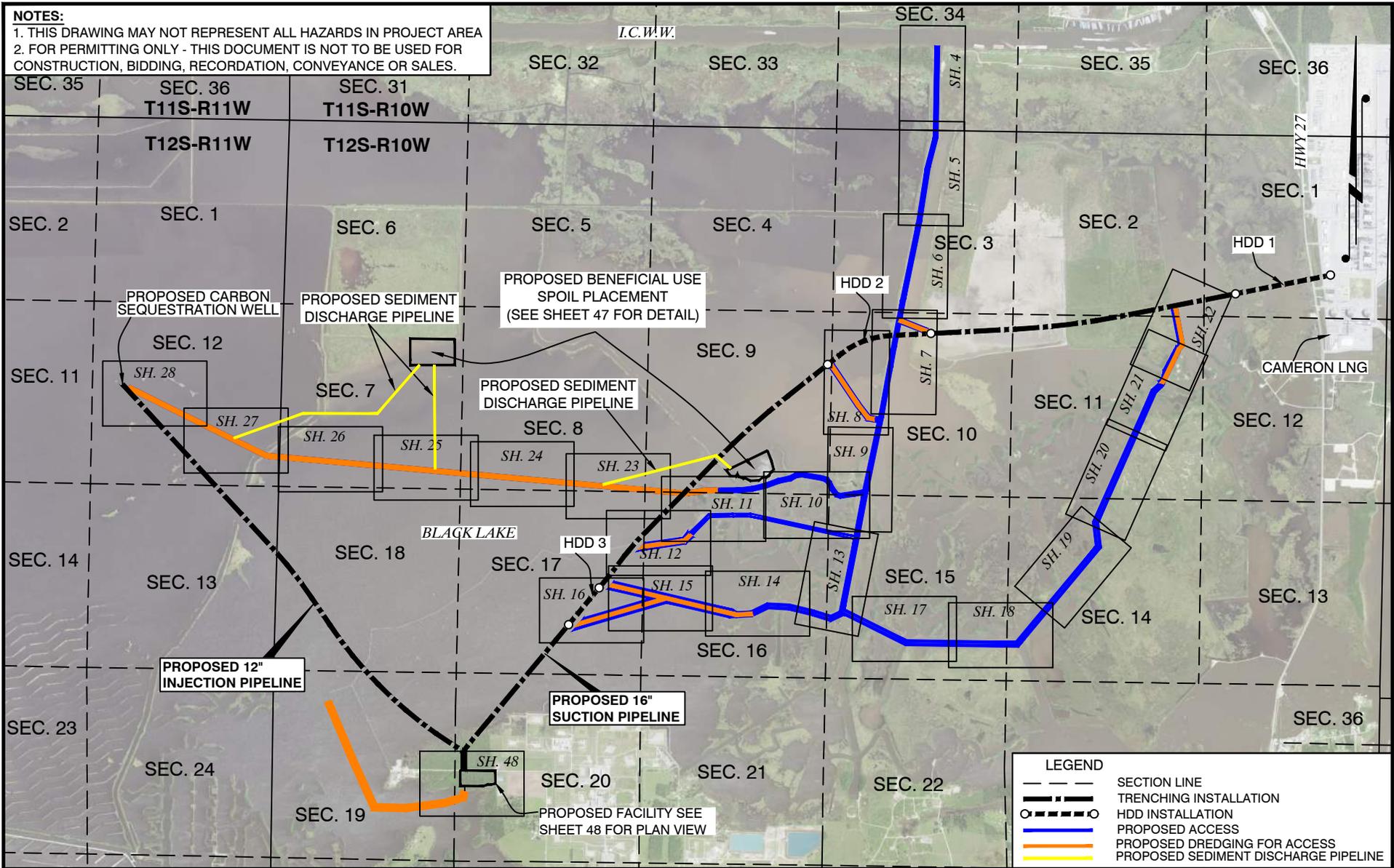
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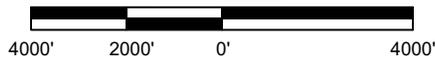
**PRELIMINARY PROJECT OVERVIEW**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
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SHEET NO: 3 OF 59

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**PRELIMINARY ACCESS ROUTE SHEET INDEX**

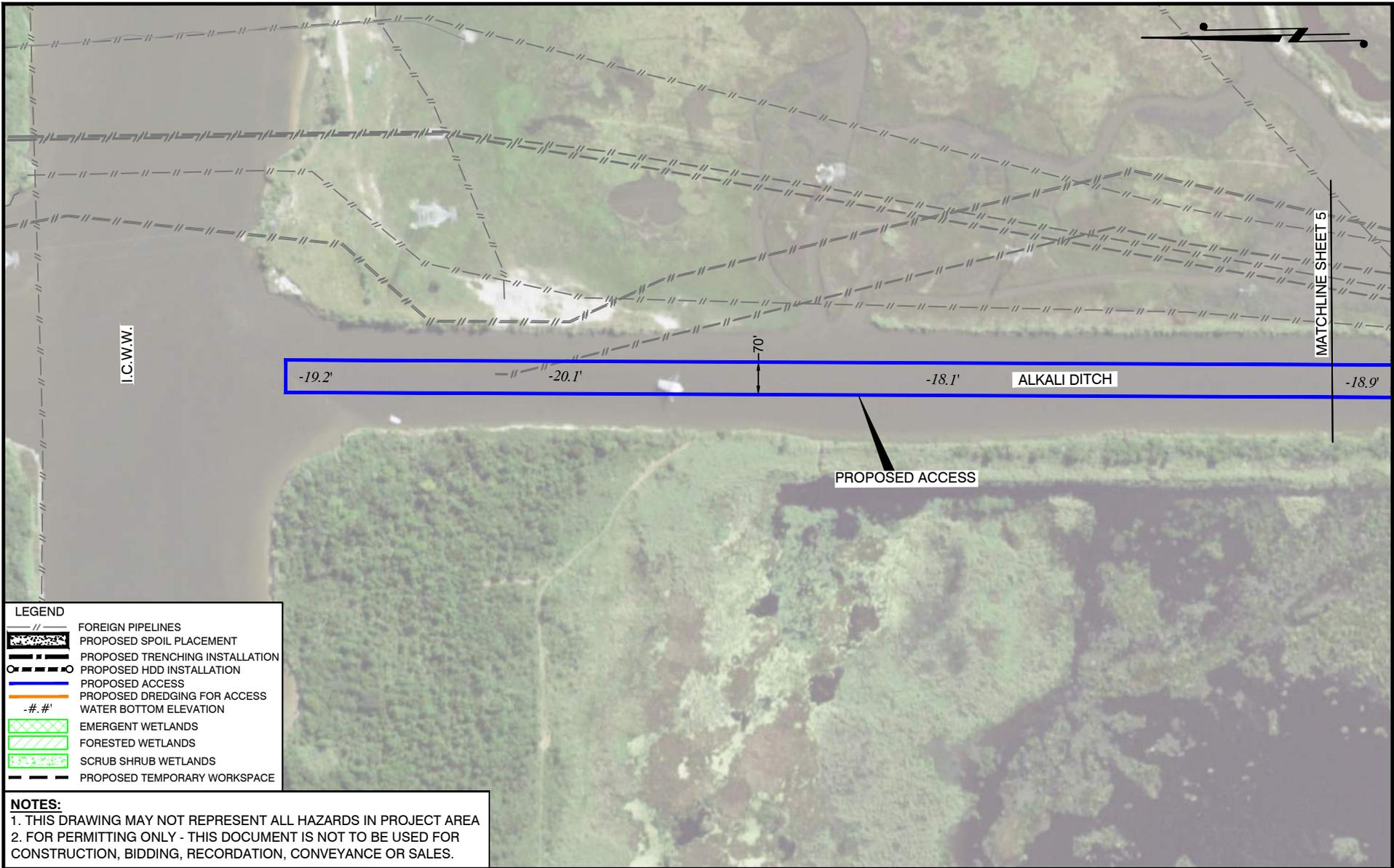
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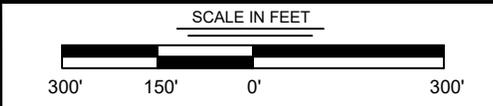


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|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
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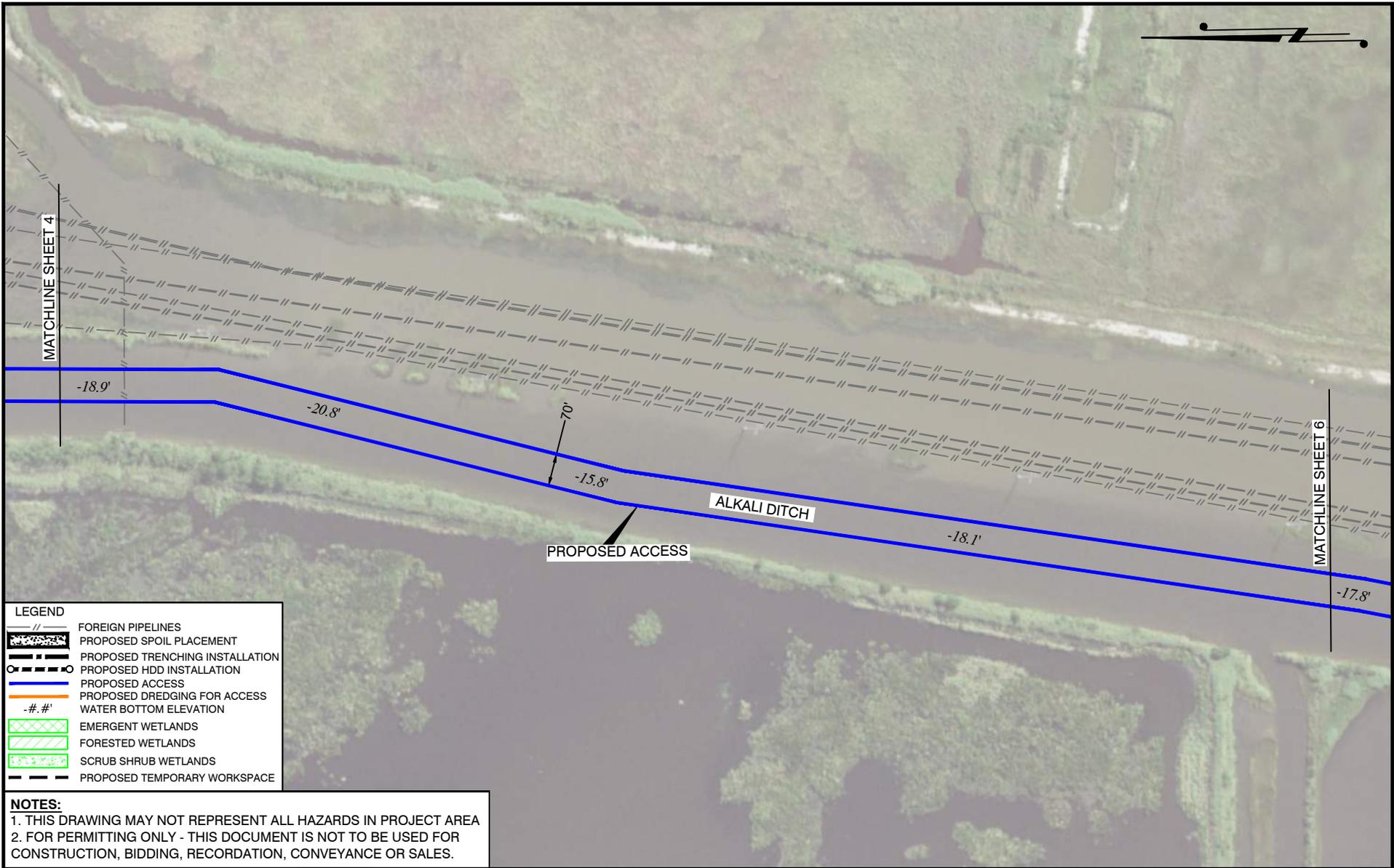
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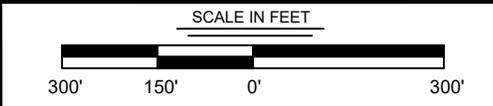
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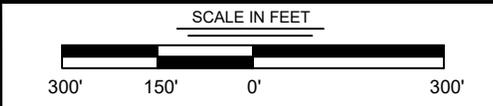
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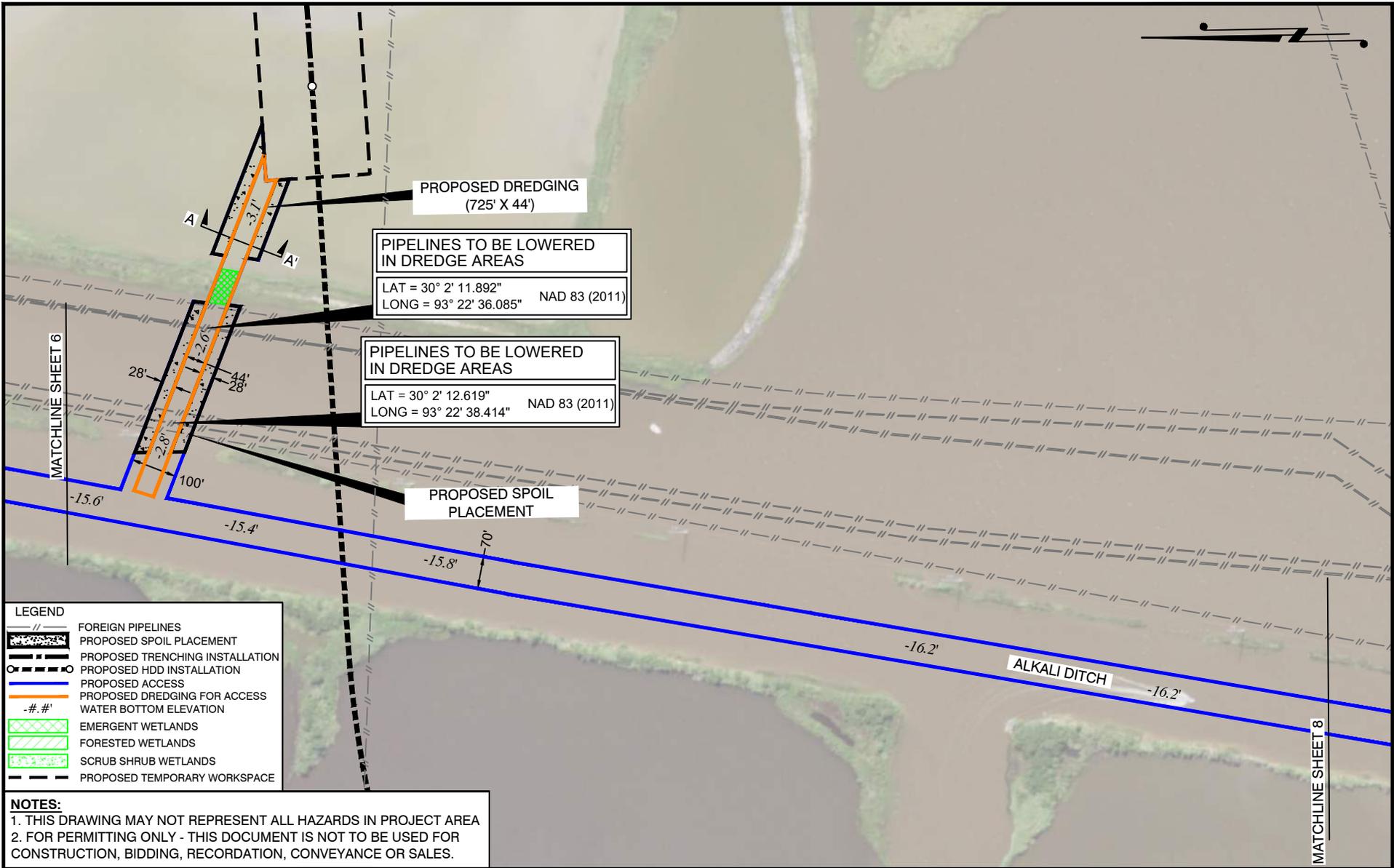
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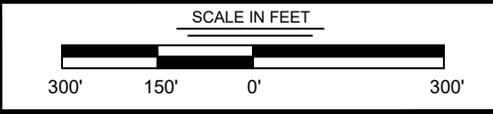
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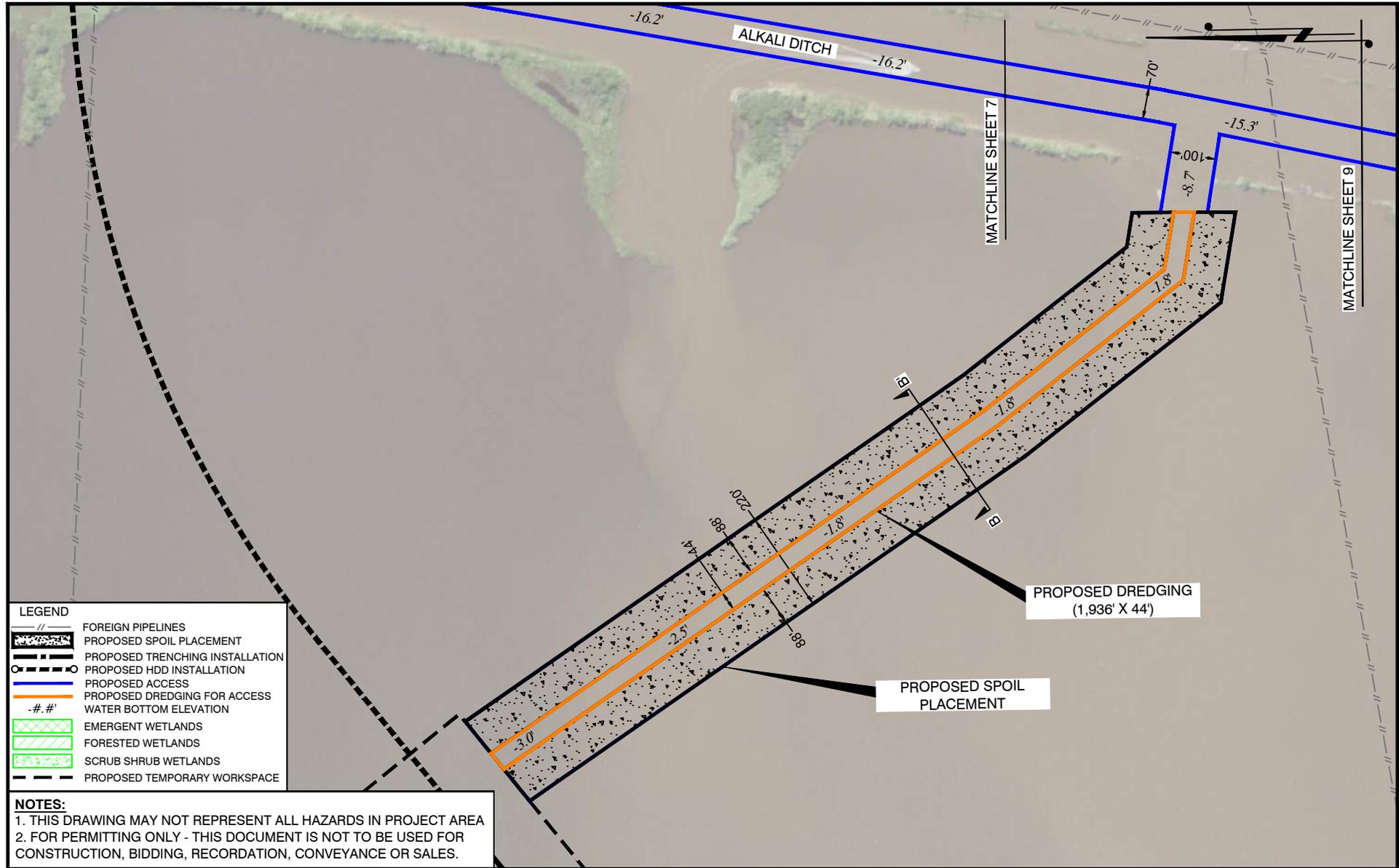
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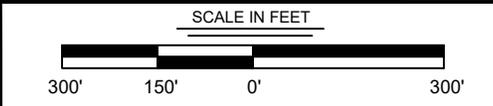
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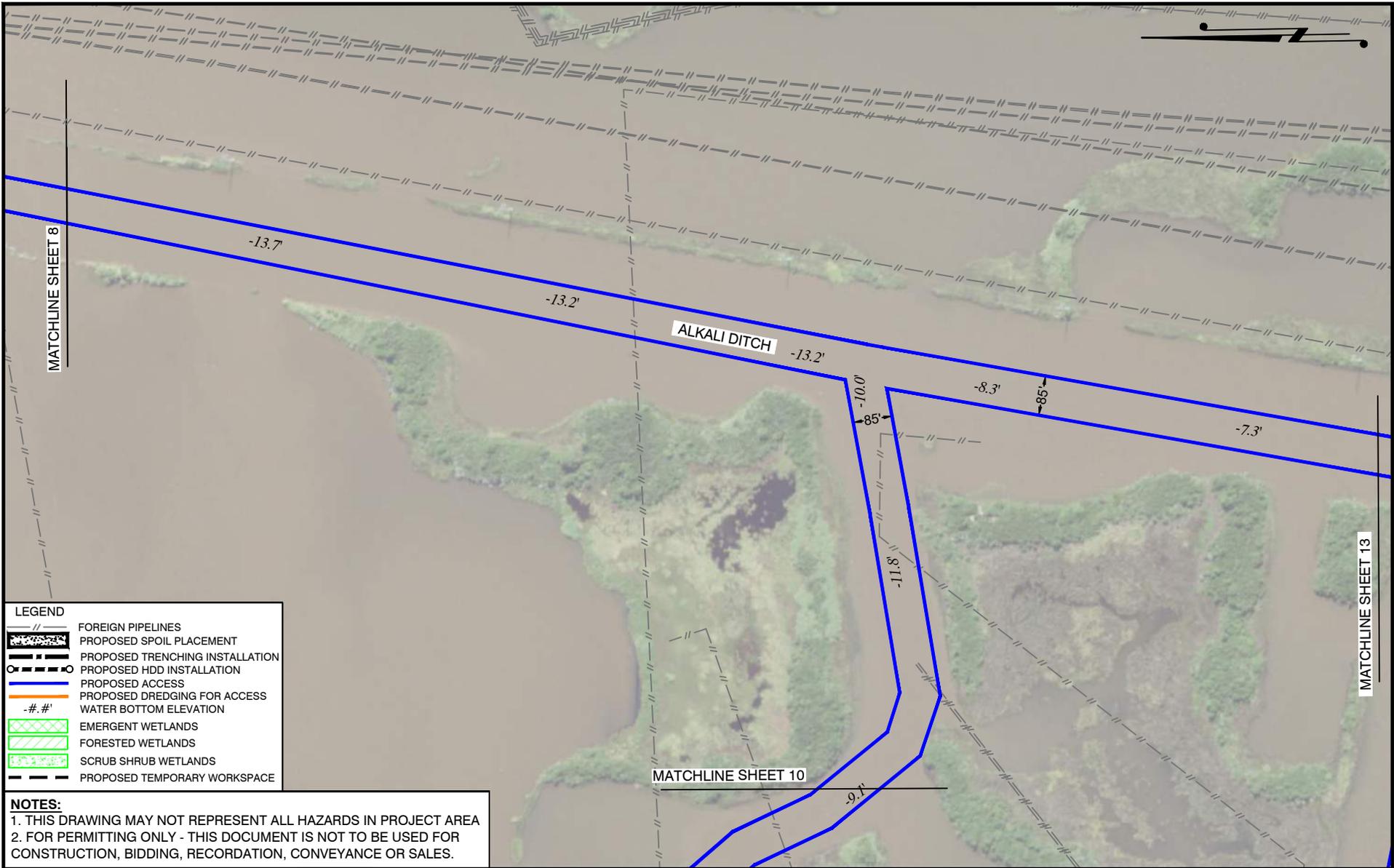
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**PRELIMINARY ACCESS**

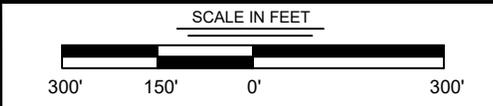
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P.Y-2021.0228.DWG(COE)REV4.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

**NOTES:**  
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| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 9                          | OF 59             |

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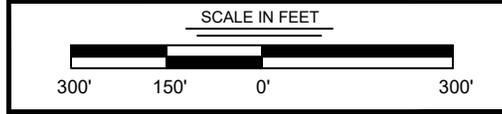
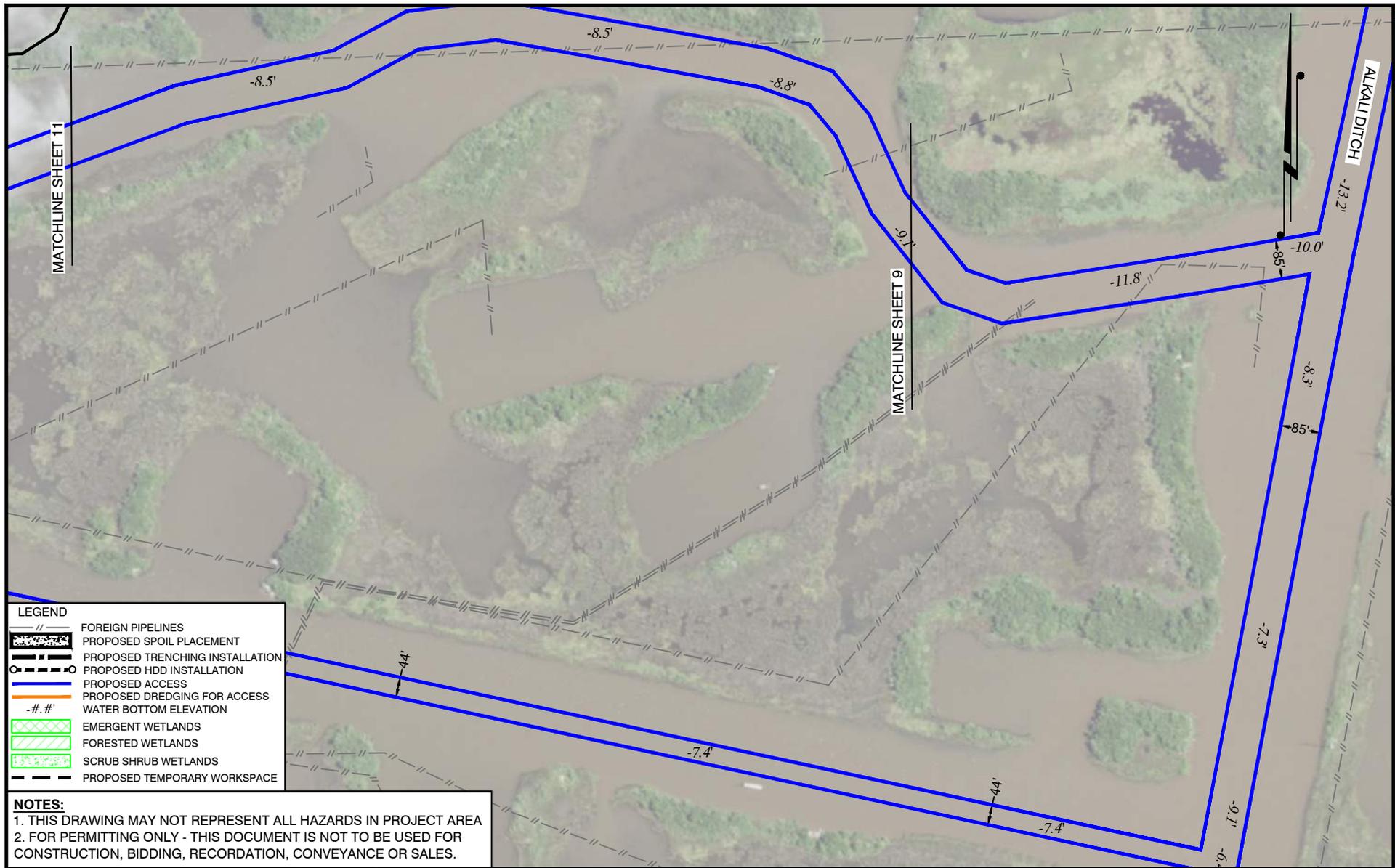
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET  
 REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
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 CAMERON PARISH, LOUISIANA

12/16/2021 - P.Y-2021.0228.DWG(COE)REV4.0228\_S4-28\_REV4.DWG



|                                      |                   |
|--------------------------------------|-------------------|
| DRAWN BY: JPD                        | APPROVED BY: ADM  |
| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 10 OF 59                   |                   |

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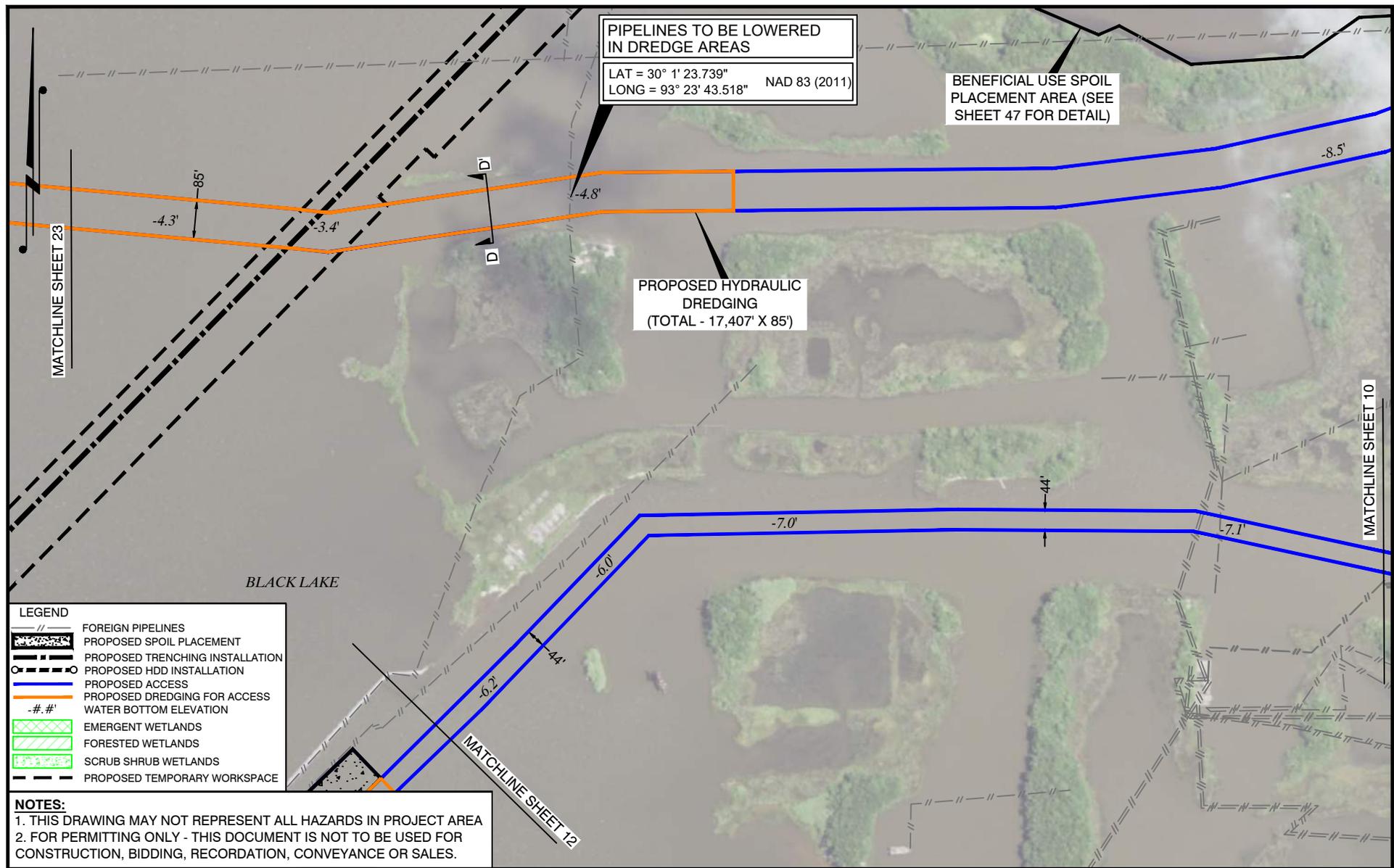
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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|---|
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |

**PRELIMINARY ACCESS**

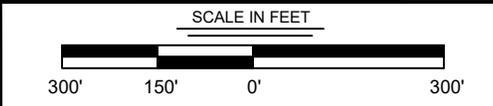
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CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

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|                                      |                   |
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| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 11                         | OF 59             |

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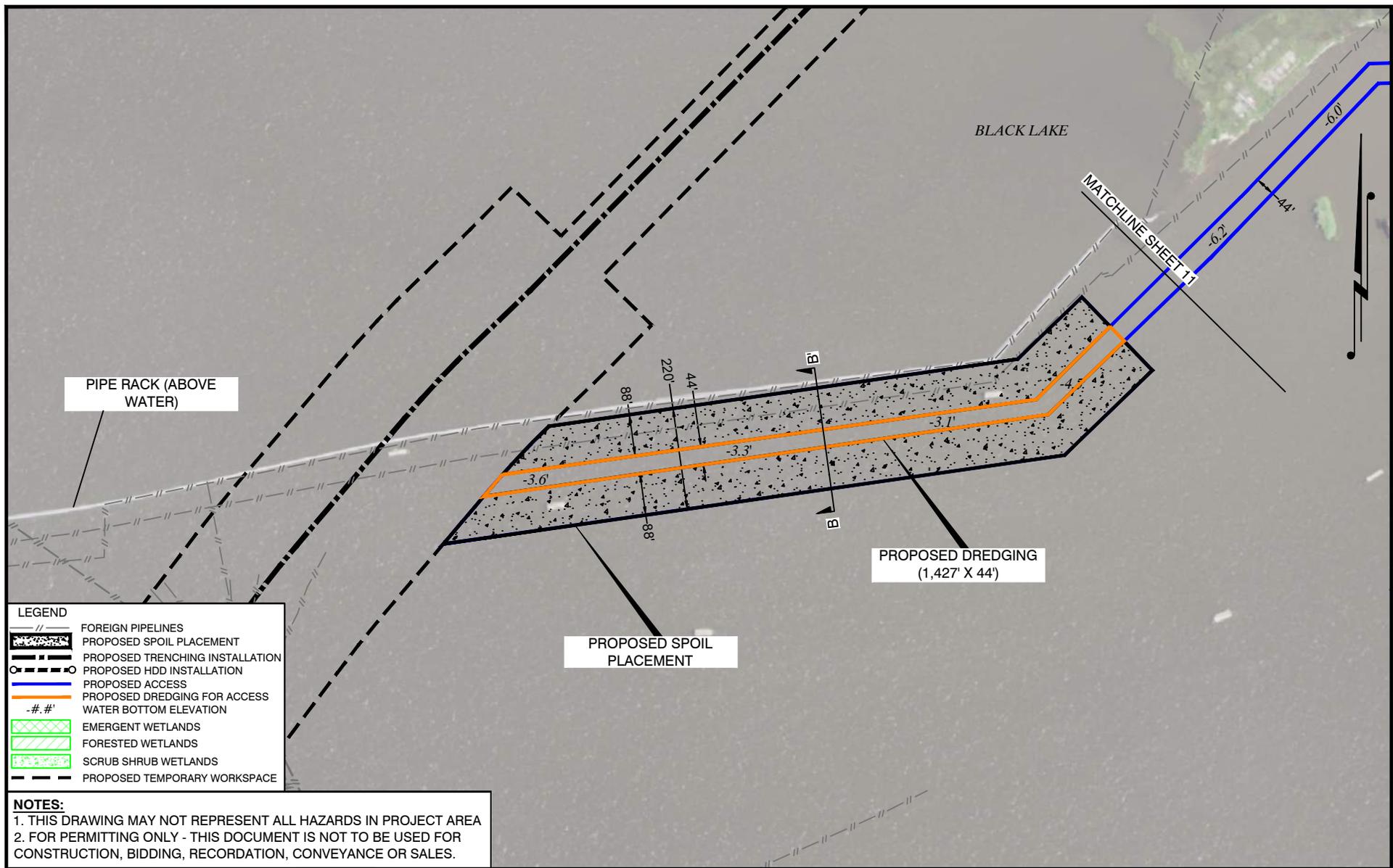
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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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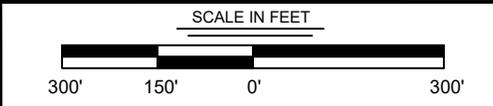
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12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
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|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
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| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 12                         | OF 59             |

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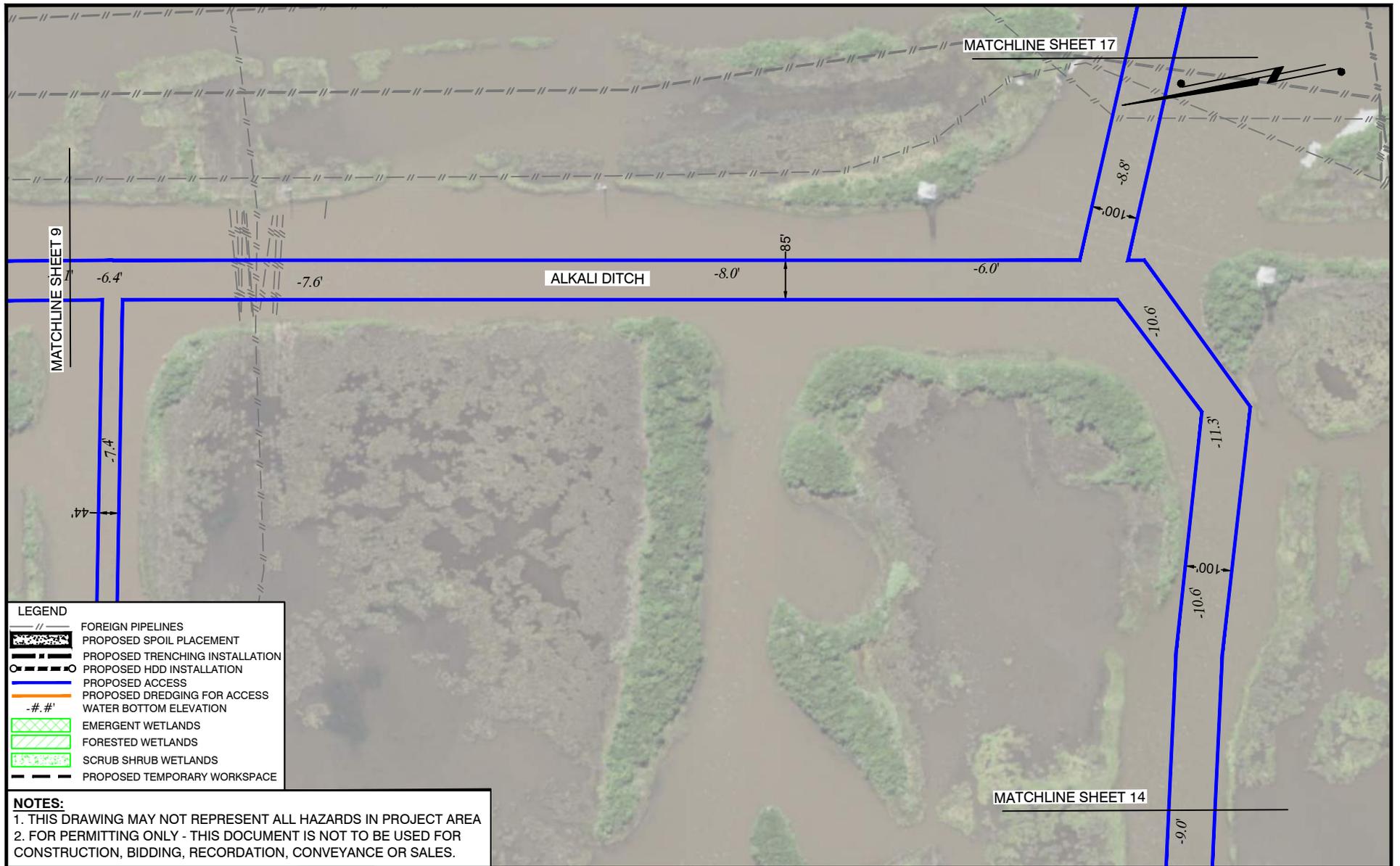
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| PROJECTION: LOUISIANA SOUTH ZONE         |
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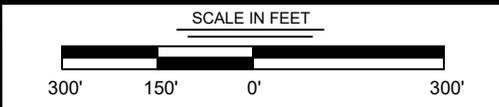
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 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
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| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 13                         | OF 59             |

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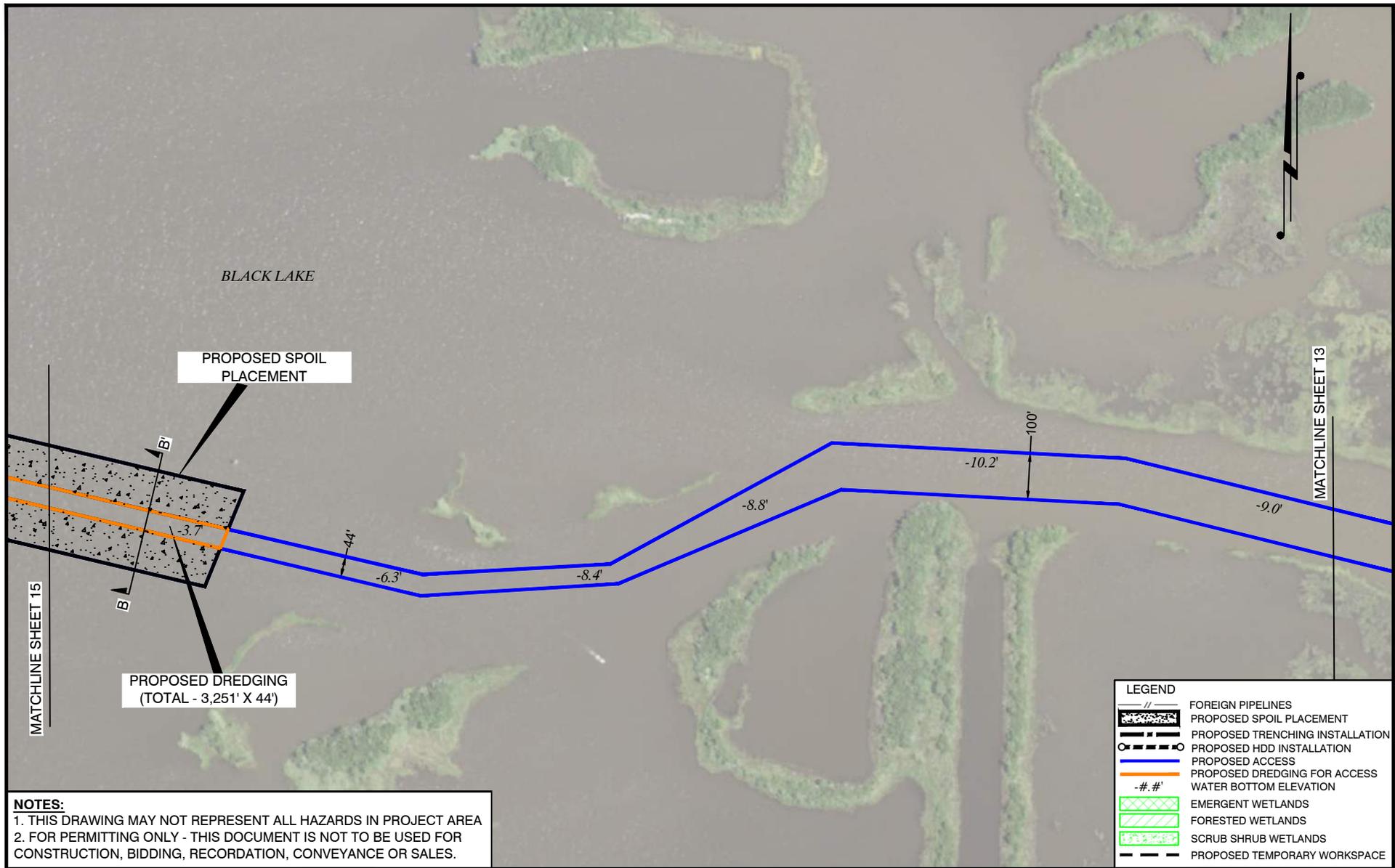
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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
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**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
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 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



BLACK LAKE

PROPOSED SPOIL PLACEMENT

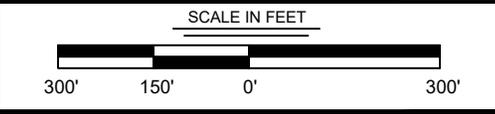
PROPOSED DREDGING  
(TOTAL - 3,251' X 44')

MATCHLINE SHEET 15

MATCHLINE SHEET 13

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |



|                                      |                   |
|--------------------------------------|-------------------|
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| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 14                         | OF 59             |

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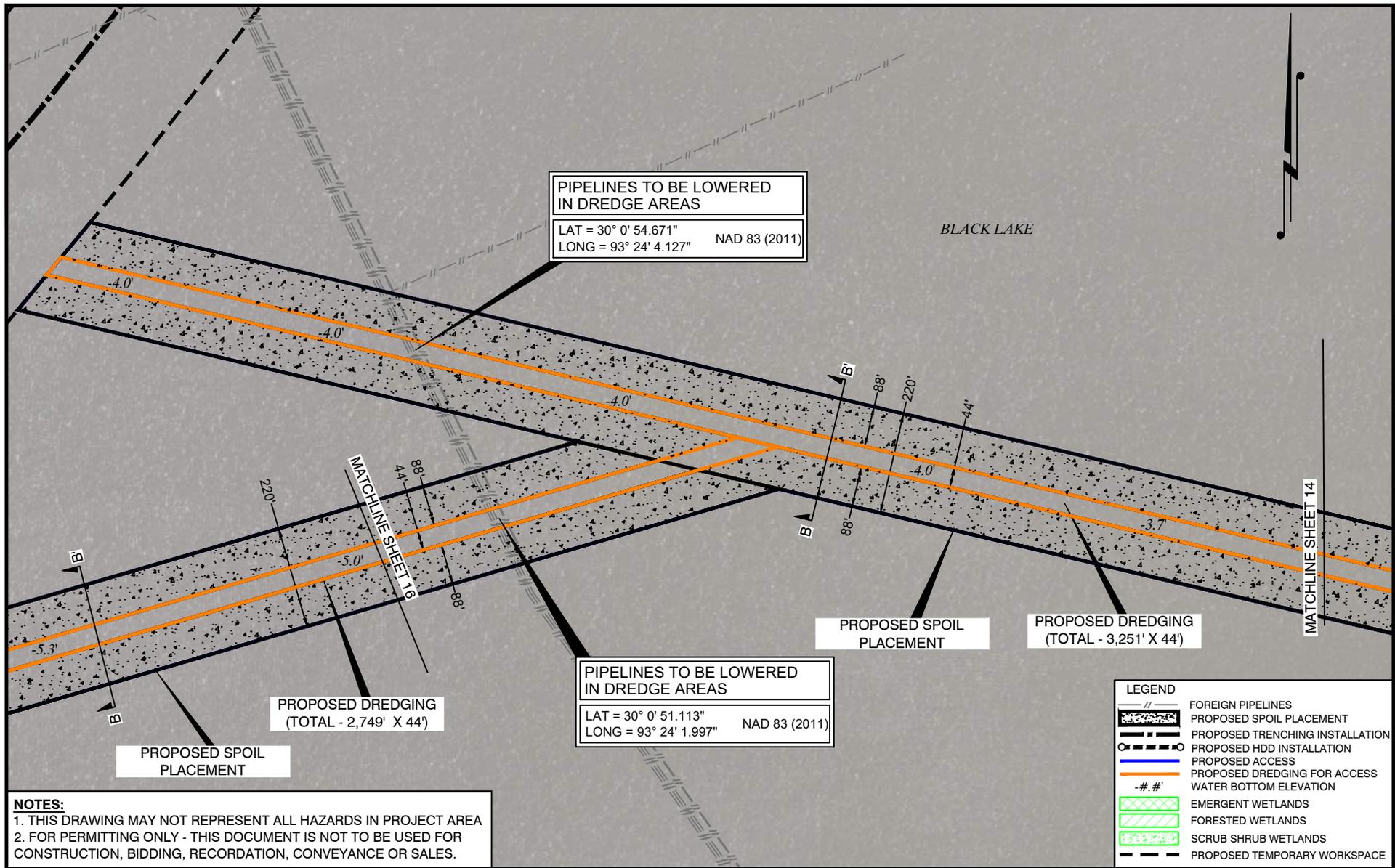
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET  
 REVISION DESCRIPTION:  
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**PRELIMINARY ACCESS**

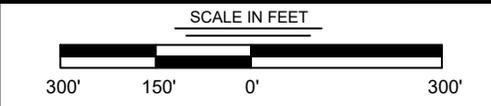
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
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 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



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| LEGEND |                                 |
|--------|---------------------------------|
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|        | PROPOSED TRENCHING INSTALLATION |
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|        | PROPOSED ACCESS                 |
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| SHEET NO: 15 OF 59                   |                   |

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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
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**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
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 CAMERON PARISH, LOUISIANA

BLACK LAKE

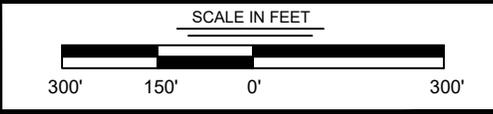
PIPELINES TO BE LOWERED  
IN DREDGE AREAS  
LAT = 30° 0' 46.155"  
LONG = 93° 24' 20.662" NAD 83 (2011)

PROPOSED DREDGING  
(TOTAL - 2,749' X 44')

PROPOSED SPOIL  
PLACEMENT

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
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| SHEET NO: 16                         | OF 59             |

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PROJECTION: LOUISIANA SOUTH ZONE  
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
GRID UNITS: US SURVEY FEET

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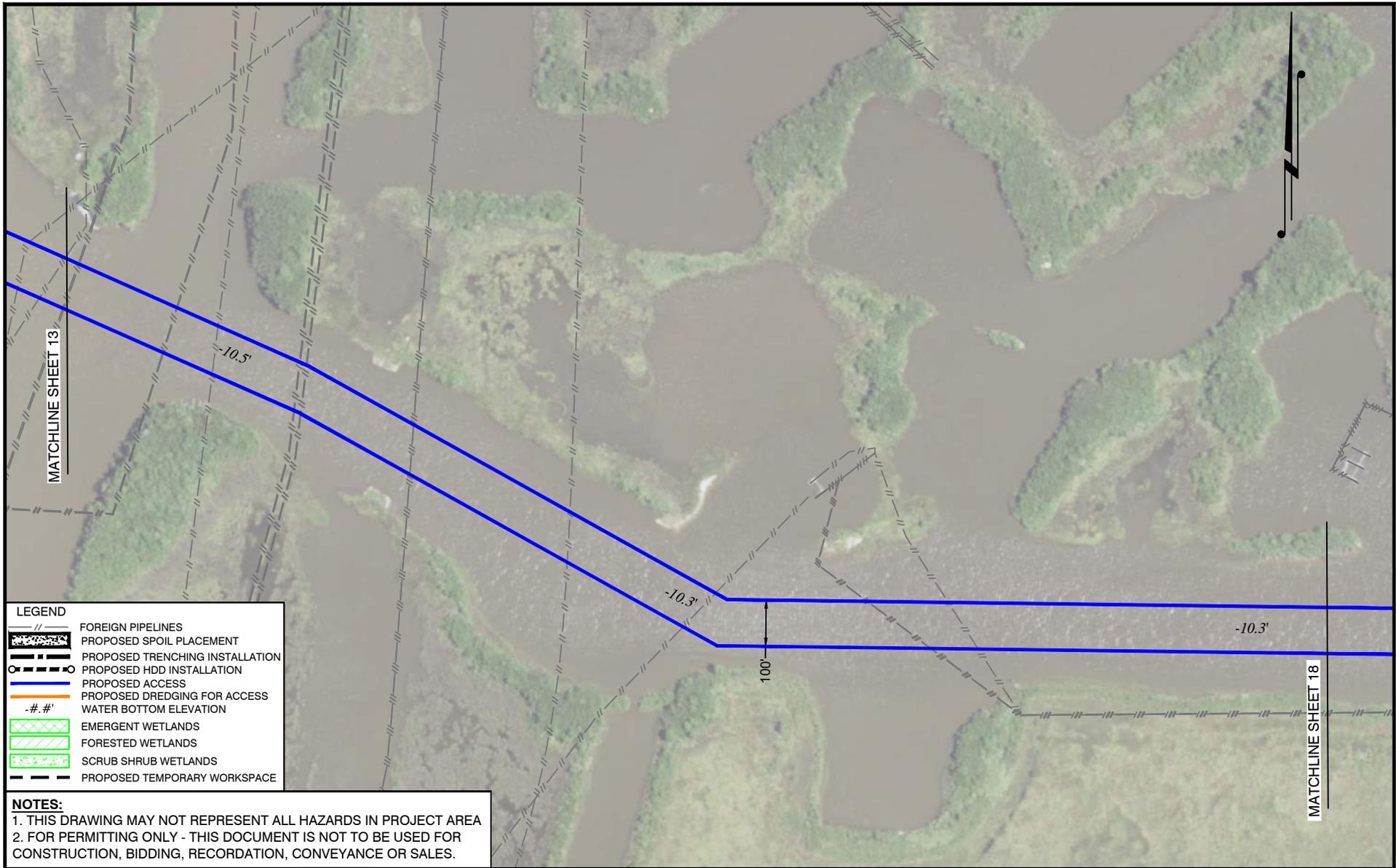
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**PRELIMINARY ACCESS**

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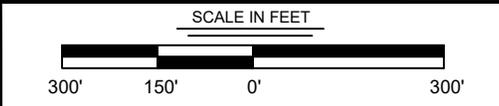
12/16/2021 - P.Y-202112021-0228.DWG(COE)REV4121.0228\_S4-28\_REV4.DWG

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
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| SHEET NO: 17 OF 59                   |                   |

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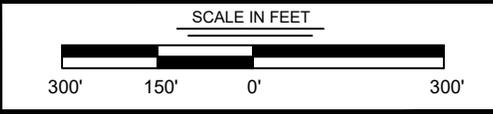
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|--------------------------------------|-------------------|
| DRAWN BY: JPD                        | APPROVED BY: ADM  |
| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 18                         | OF 59             |

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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

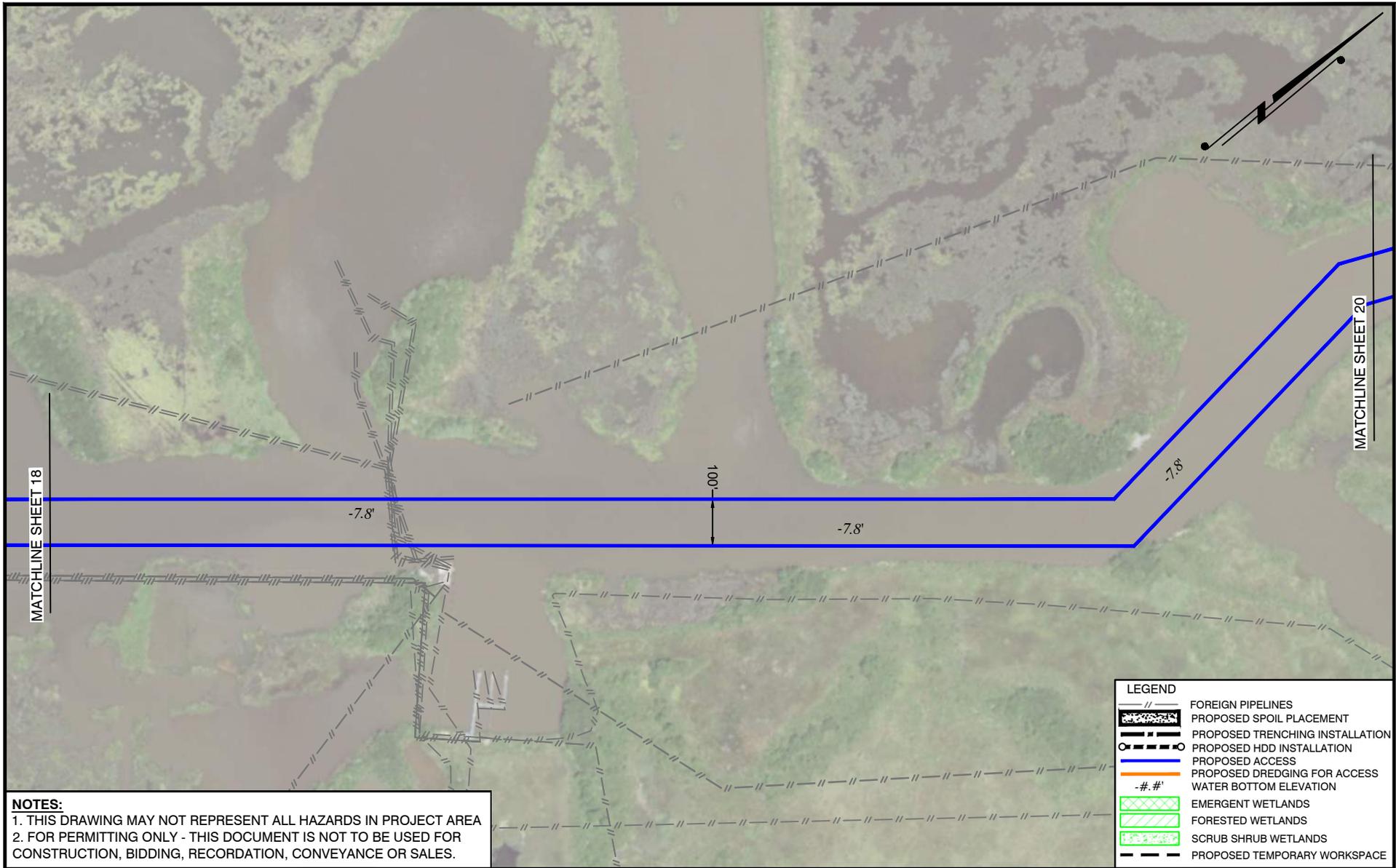
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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REVISION DESCRIPTION:  
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**PRELIMINARY ACCESS**

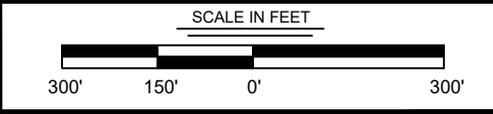
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



**NOTES:**  
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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |



|                                      |                   |
|--------------------------------------|-------------------|
| DRAWN BY: JPD                        | APPROVED BY: ADM  |
| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 19                         | OF 59             |

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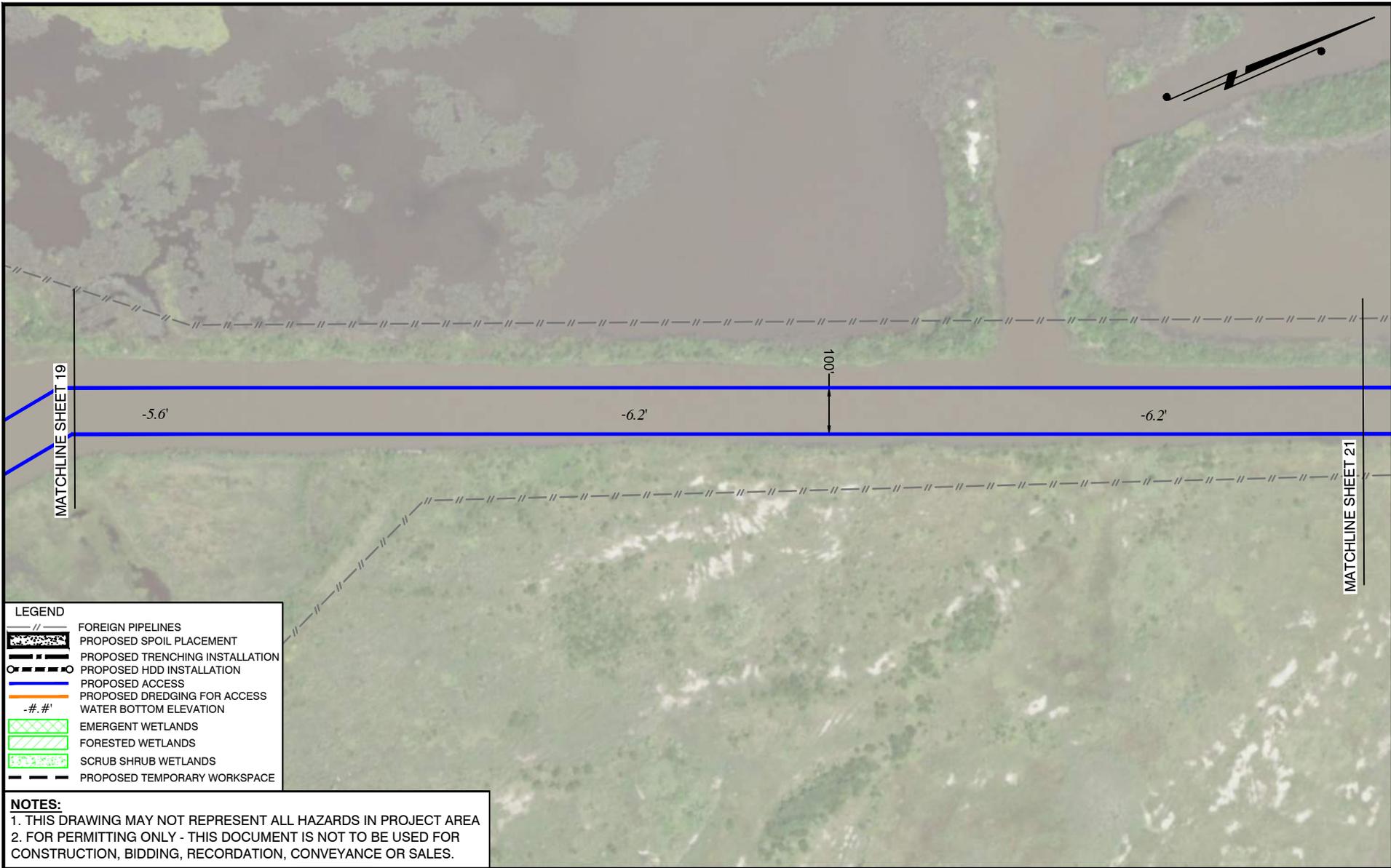
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET  
 REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY ACCESS**

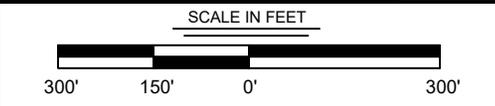
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

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**TBS** **T. BAKER SMITH**  
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DRAWN BY: JPD    APPROVED BY: ADM

DATE: 06/28/2021    JOB NO: 2021.0228

DRAWING NAME: 21.0228\_S4-28\_REV4.DWG

SHEET NO: 20 OF 59

PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

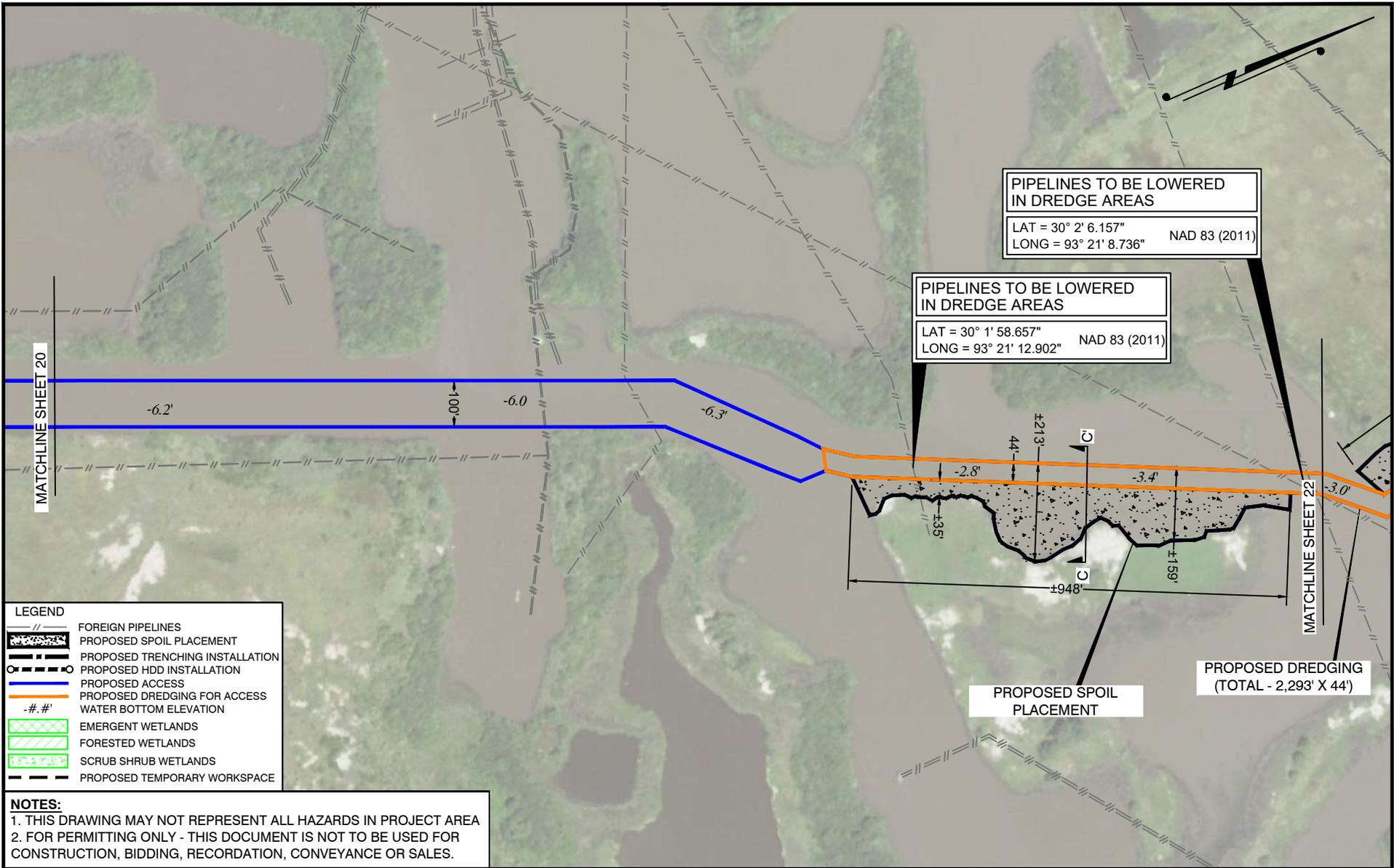
REV. NO: 4    REV. DATE: 12/16/2021    REV. BY: RBT

REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



PIPELINES TO BE LOWERED  
IN DREDGE AREAS  
LAT = 30° 2' 6.157" NAD 83 (2011)  
LONG = 93° 21' 8.736"

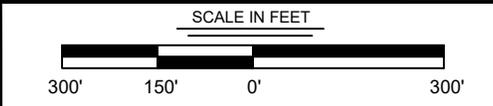
PIPELINES TO BE LOWERED  
IN DREDGE AREAS  
LAT = 30° 1' 58.657" NAD 83 (2011)  
LONG = 93° 21' 12.902"

PROPOSED DREDGING  
(TOTAL - 2,293' X 44')

PROPOSED SPOIL  
PLACEMENT

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

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|                                      |                   |
|--------------------------------------|-------------------|
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| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 21 OF 59                   |                   |

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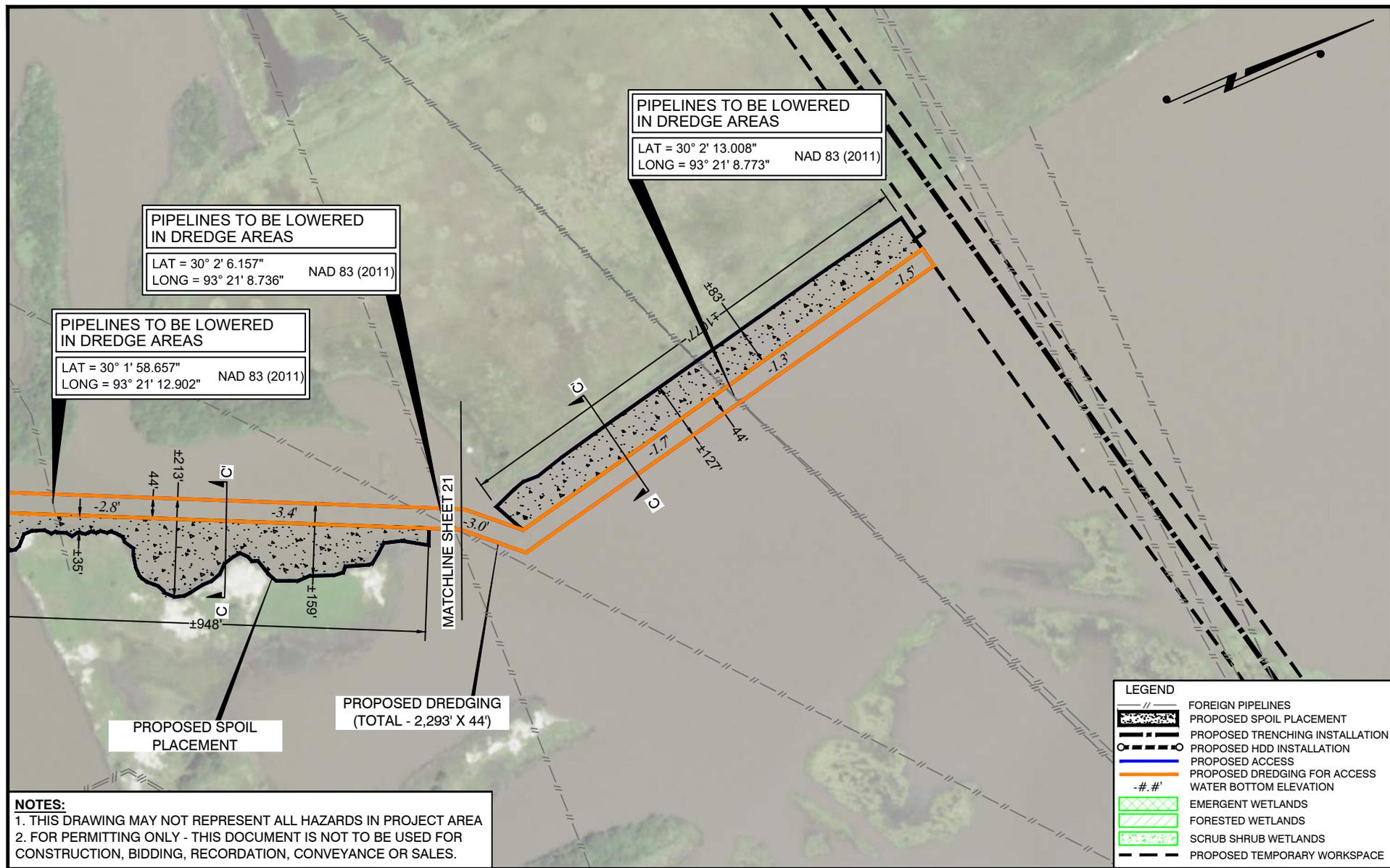
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
|------------|-----------------------|--------------|

PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET  
 REVISION DESCRIPTION:  
 REVISED PER OCM

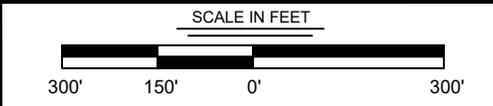
**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

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 DATE: 06/28/2021    JOB NO: 2021.0228  
 DRAWING NAME: 21.0228\_S4-28\_REV4.DWG

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SHEET NO: **22** OF **59**  
 PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

REV. NO: 4    REV. DATE: 12/16/2021    REV. BY: RBT

REVISION DESCRIPTION:  
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**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

BLACK LAKE

LAT = 30° 1' 25.024"  
LONG = 93° 24' 16.606" NAD 83 (2011)

PROPOSED SEDIMENT  
DISCHARGE PIPELINE

PROPOSED HYDRAULIC  
DREDGING  
(TOTAL - 17,407' X 85')

-5.8'

-85'

-5.3'

-5.3'

MATCHLINE SHEET 24

MATCHLINE SHEET 11

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

- NOTES:**
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SCALE IN FEET



DRAWN BY: JPD APPROVED BY: ADM

DATE: 06/28/2021 JOB NO: 2021.0228

DRAWING NAME: 21.0228\_S4-28\_REV4.DWG

SHEET NO: 23 OF 59

PROJECTION: LOUISIANA SOUTH ZONE  
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
GRID UNITS: US SURVEY FEET

REVISION DESCRIPTION:  
REVISED PER OCM

**PRELIMINARY**

**ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
HACKBERRY CARBON SEQUESTRATION PROJECT  
PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
T12S-R11W, SECTIONS 12 & 13  
CAMERON PARISH, LOUISIANA

REV. NO: 4 REV. DATE: 12/16/2021 REV. BY: RBT



12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG

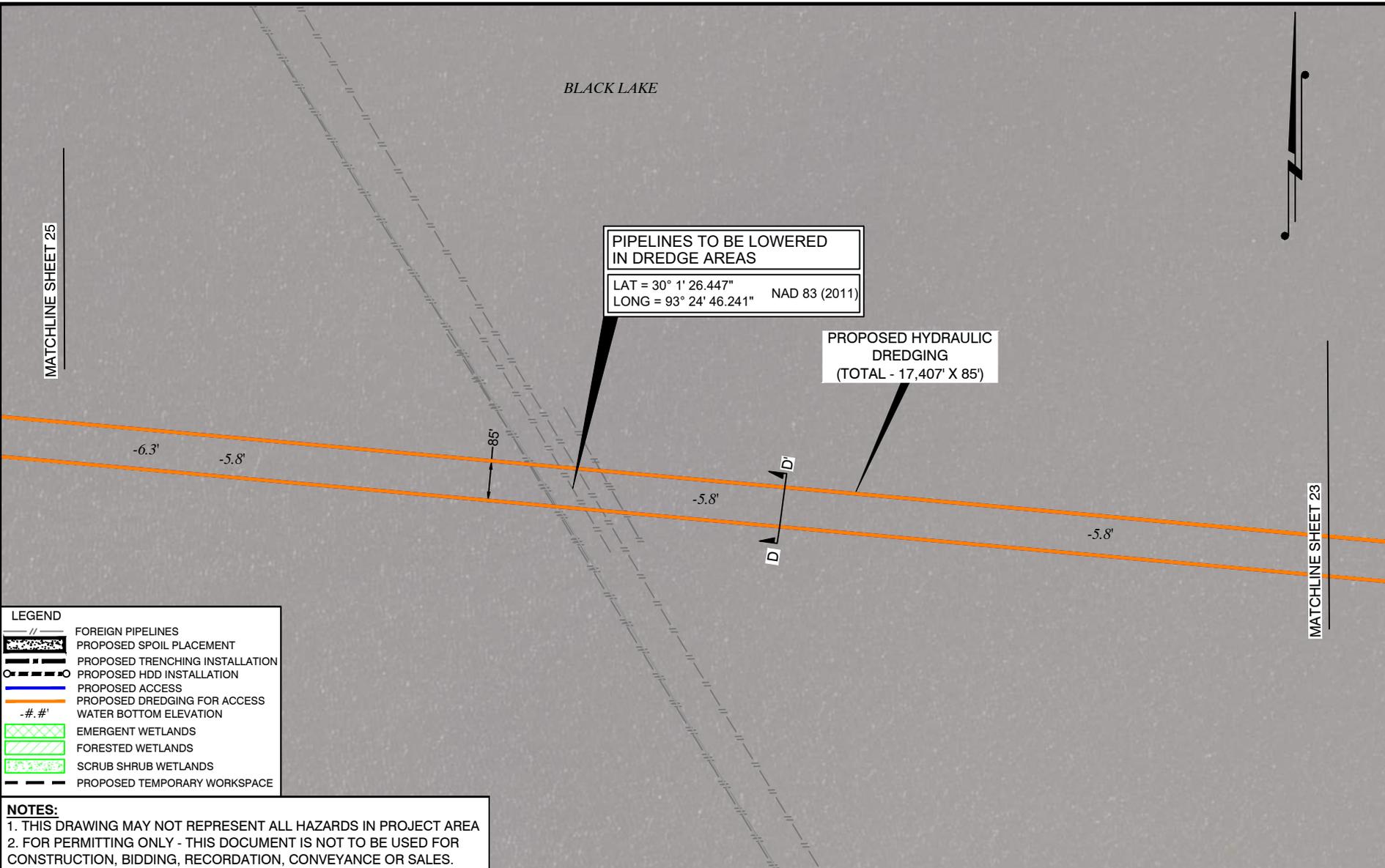
BLACK LAKE

MATCHLINE SHEET 25

MATCHLINE SHEET 23

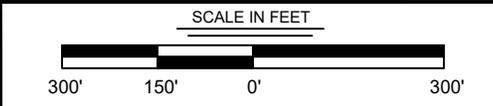
PIPELINES TO BE LOWERED  
IN DREDGE AREAS  
LAT = 30° 1' 26.447" NAD 83 (2011)  
LONG = 93° 24' 46.241"

PROPOSED HYDRAULIC  
DREDGING  
(TOTAL - 17,407' X 85')



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

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|--------------------------------------|-------------------|
| DRAWN BY: JPD                        | APPROVED BY: ADM  |
| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 24                         | OF 59             |

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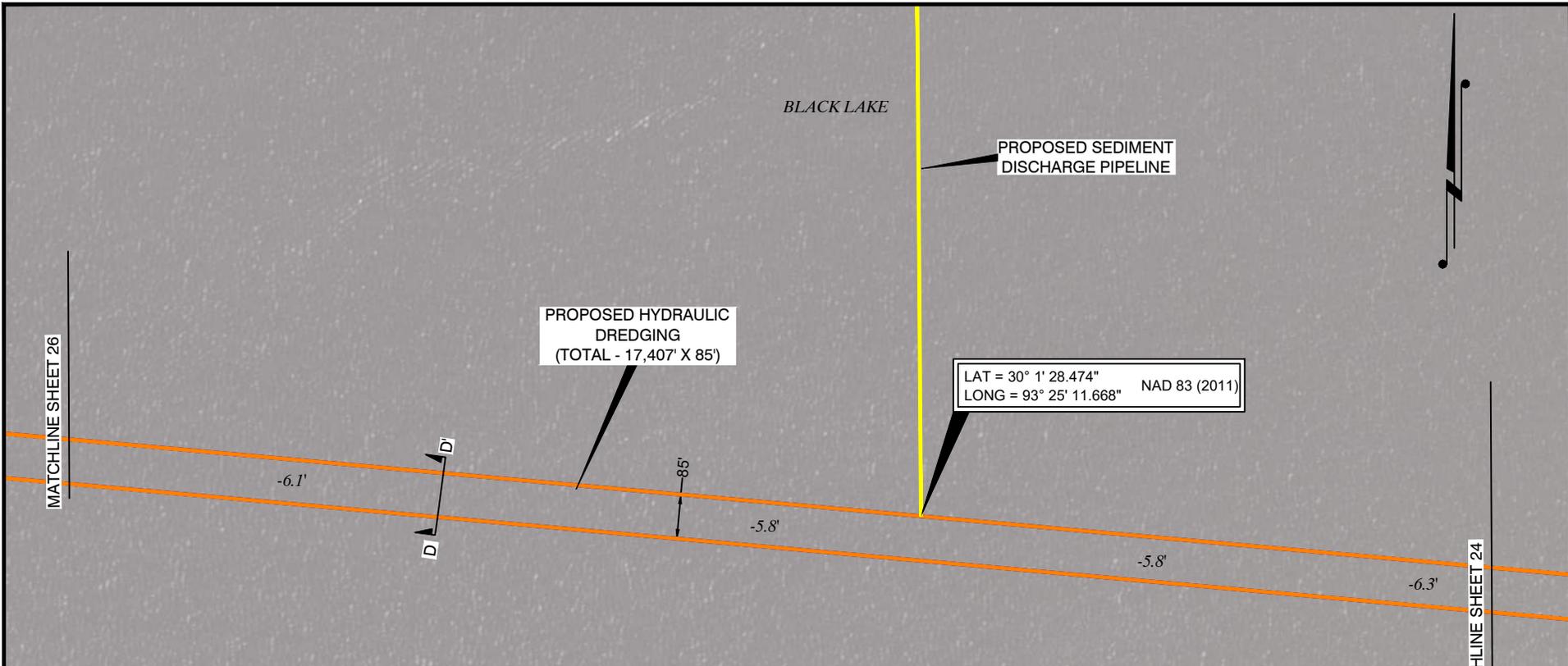
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET  
 REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY ACCESS**

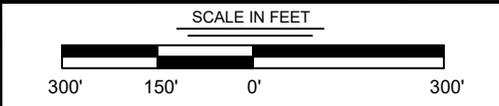
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P.Y-2021.0228.DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

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|                                      |                   |
|--------------------------------------|-------------------|
| DRAWN BY: JPD                        | APPROVED BY: ADM  |
| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 25 OF 59                   |                   |

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|  |
|--|
| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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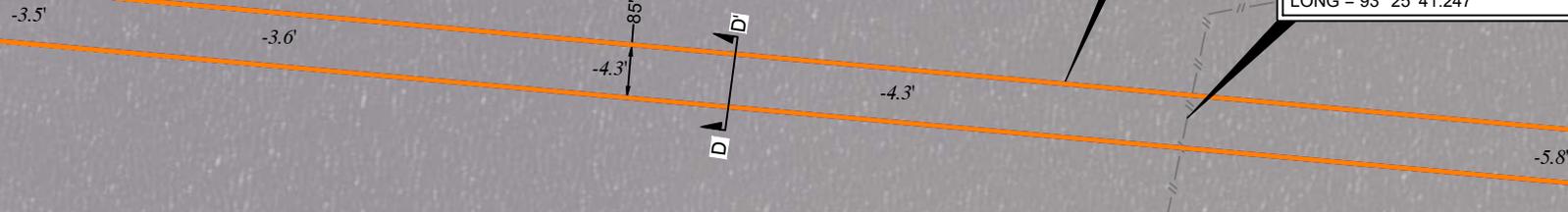
**PRELIMINARY ACCESS**

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 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

BLACK LAKE

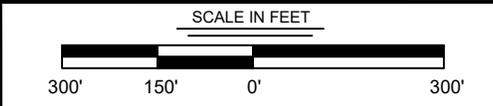
MATCHLINE SHEET 27

MATCHLINE SHEET 25



| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

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|                                      |                   |
|--------------------------------------|-------------------|
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| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 26                         | OF 59             |

PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

|            |                       |              |
|------------|-----------------------|--------------|
| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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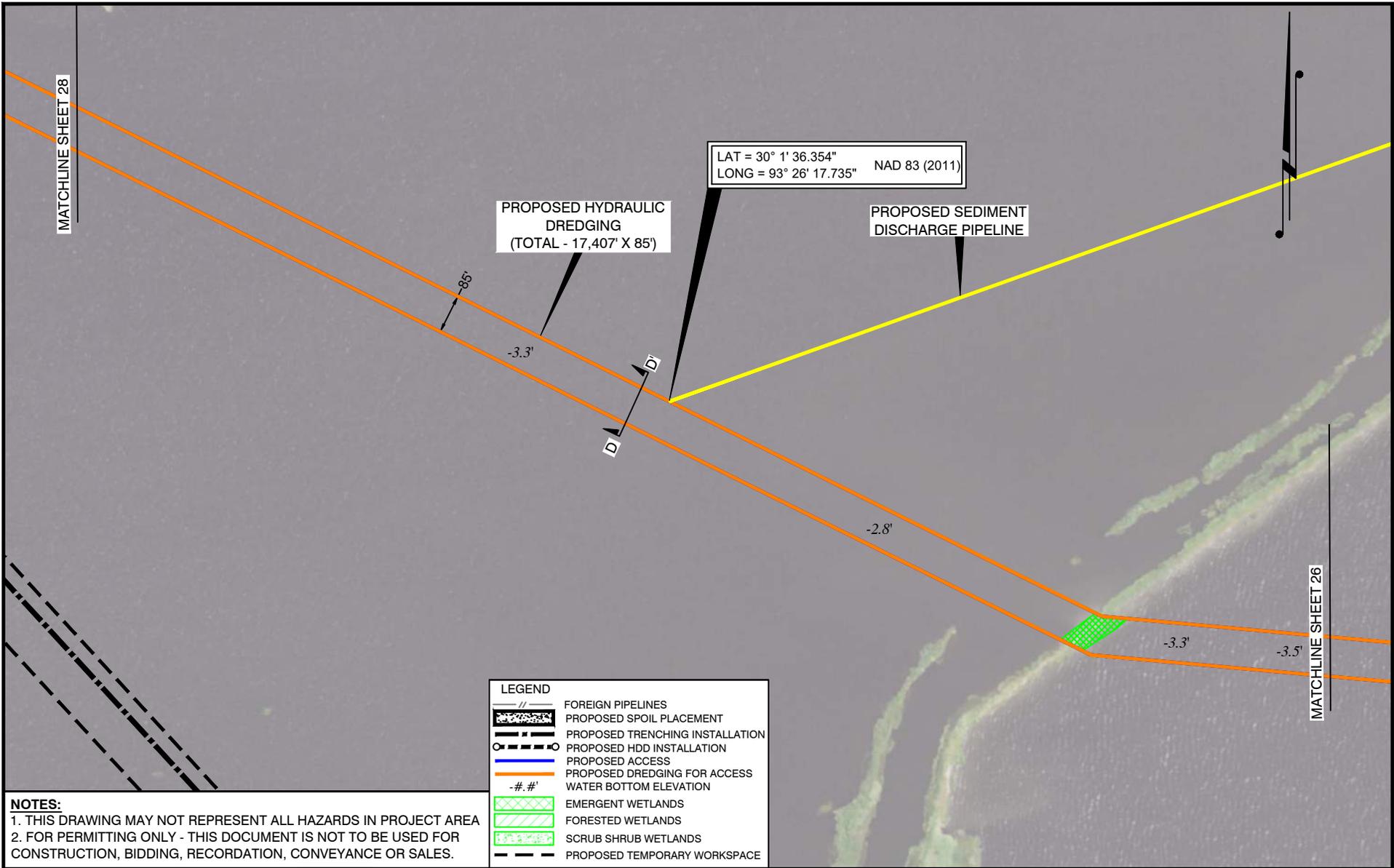
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**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
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 CAMERON PARISH, LOUISIANA

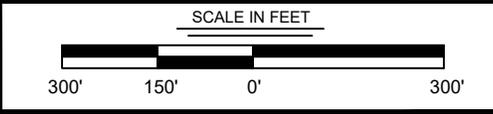
12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S4-28\_REV4.DWG

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |



|                                      |                   |
|--------------------------------------|-------------------|
| DRAWN BY: JPD                        | APPROVED BY: ADM  |
| DATE: 06/28/2021                     | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 27 OF 59                   |                   |

**T. BAKER SMITH**  
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|   |
|---|
| PROJECTION: LOUISIANA SOUTH ZONE        |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88 |
| GRID UNITS: US SURVEY FEET              |

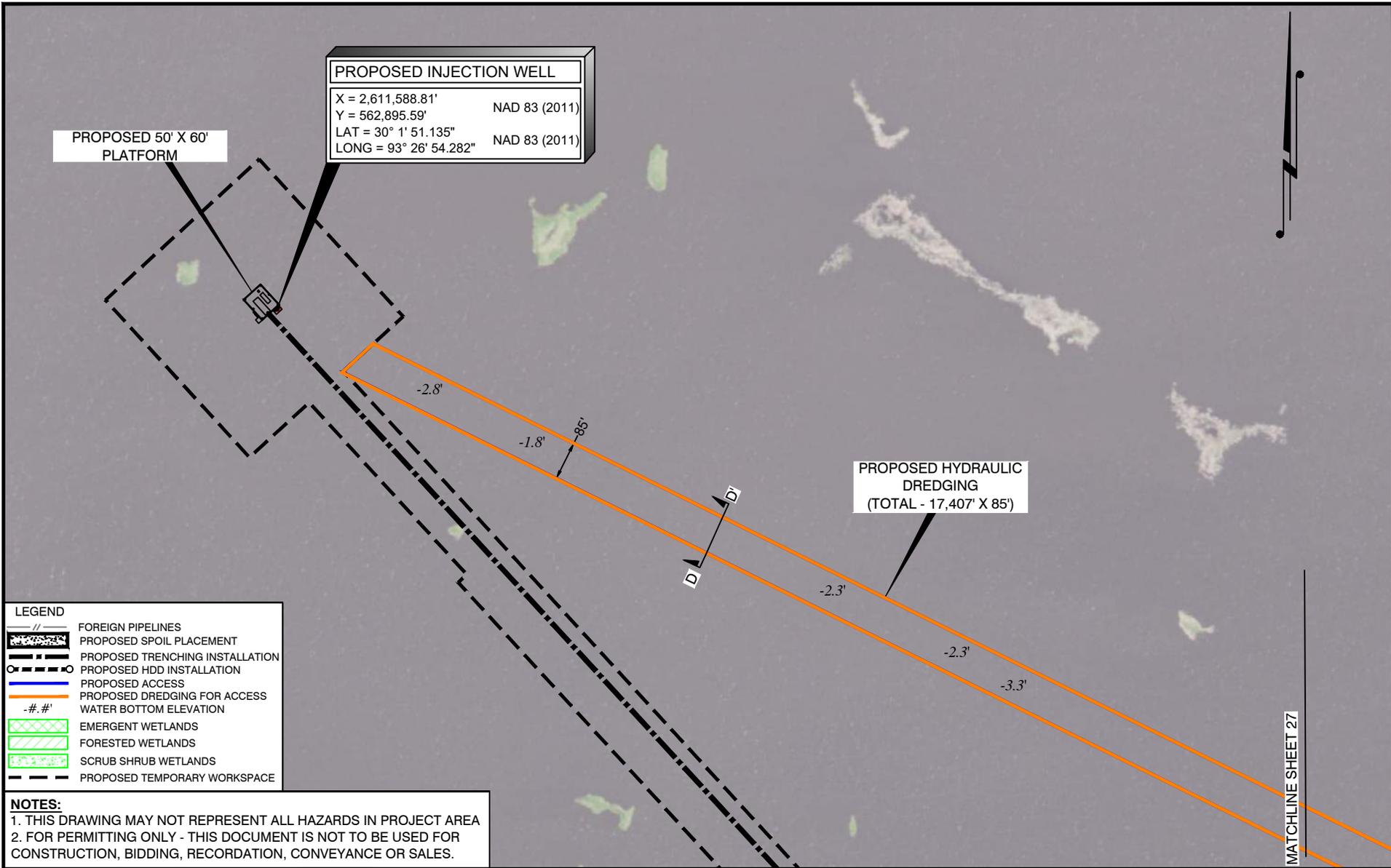
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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REVISION DESCRIPTION:  
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**PRELIMINARY ACCESS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

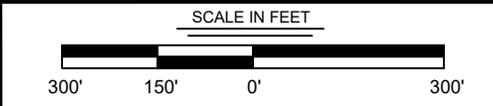
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MATCHLINE SHEET 27

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |

**NOTES:**  
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|                                      |                   |
|--------------------------------------|-------------------|
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| DRAWING NAME: 21.0228_S4-28_REV4.DWG |                   |
| SHEET NO: 28                         | OF 59             |

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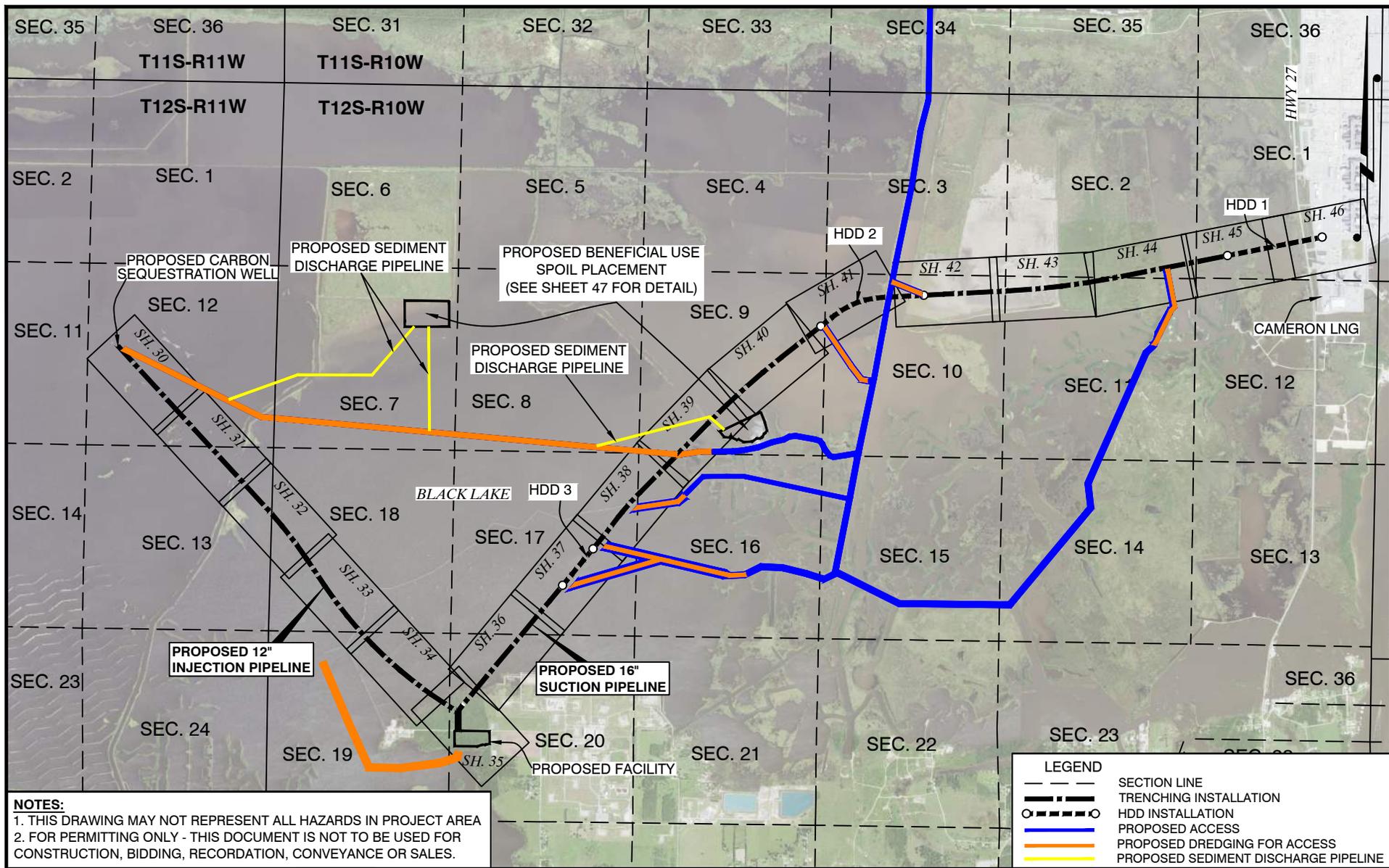
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

**PRELIMINARY ACCESS**

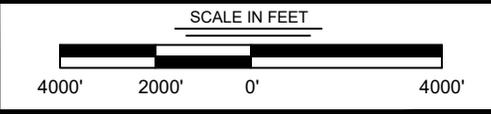
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

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| LEGEND |                                      |
|--------|--------------------------------------|
|        | SECTION LINE                         |
|        | TRENCHING INSTALLATION               |
|        | HDD INSTALLATION                     |
|        | PROPOSED ACCESS                      |
|        | PROPOSED DREDGING FOR ACCESS         |
|        | PROPOSED SEDIMENT DISCHARGE PIPELINE |



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|---|-------------------|
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| DATE: 06/28/2021  | JOB NO: 2021.0228 |
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| SHEET NO: 29 OF 59  |                   |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |                   |
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REV. NO: 4    REV. DATE: 12/16/2021    REV. BY: RBT

**PRELIMINARY PIPELINE ROUTE SHEET INDEX**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

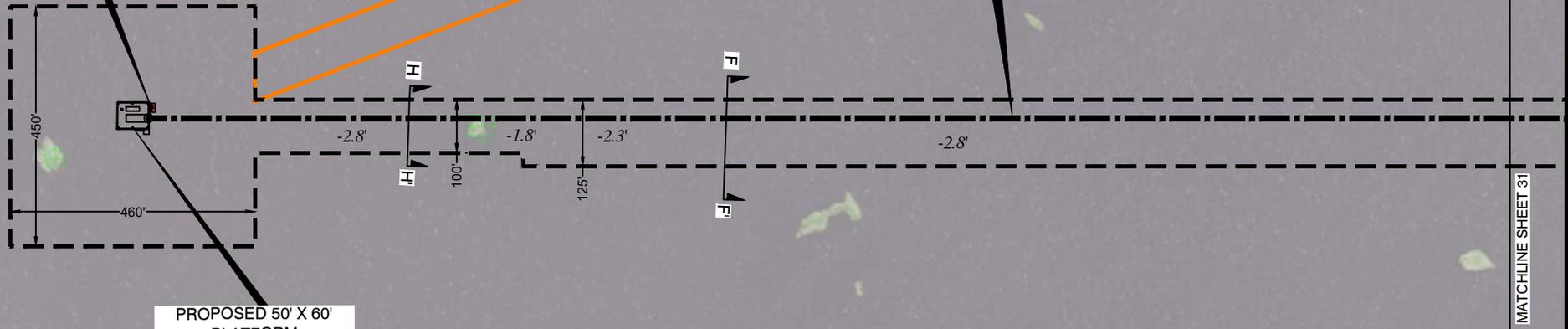
12/16/2021 - P:\Y-2021\12021.0228\DWG\COE\REV4\21.0228\_S30-46\_REV4.DWG

**PROPOSED INJECTION WELL**

X = 2,611,588.81'      NAD 83 (2011)  
 Y = 562,895.59'  
 LAT = 30° 1' 51.135"  
 LONG = 93° 26' 54.282"      NAD 83 (2011)

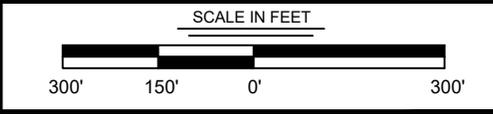
**PROPOSED 12" CO2 INJECTION PIPELINE (15,026')**

**PROPOSED 50' X 60' PLATFORM**



- NOTES:**
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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | -#.#' WATER BOTTOM ELEVATION    |
|        | FORESTED WETLANDS               |
|        | EMERGENT WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
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| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
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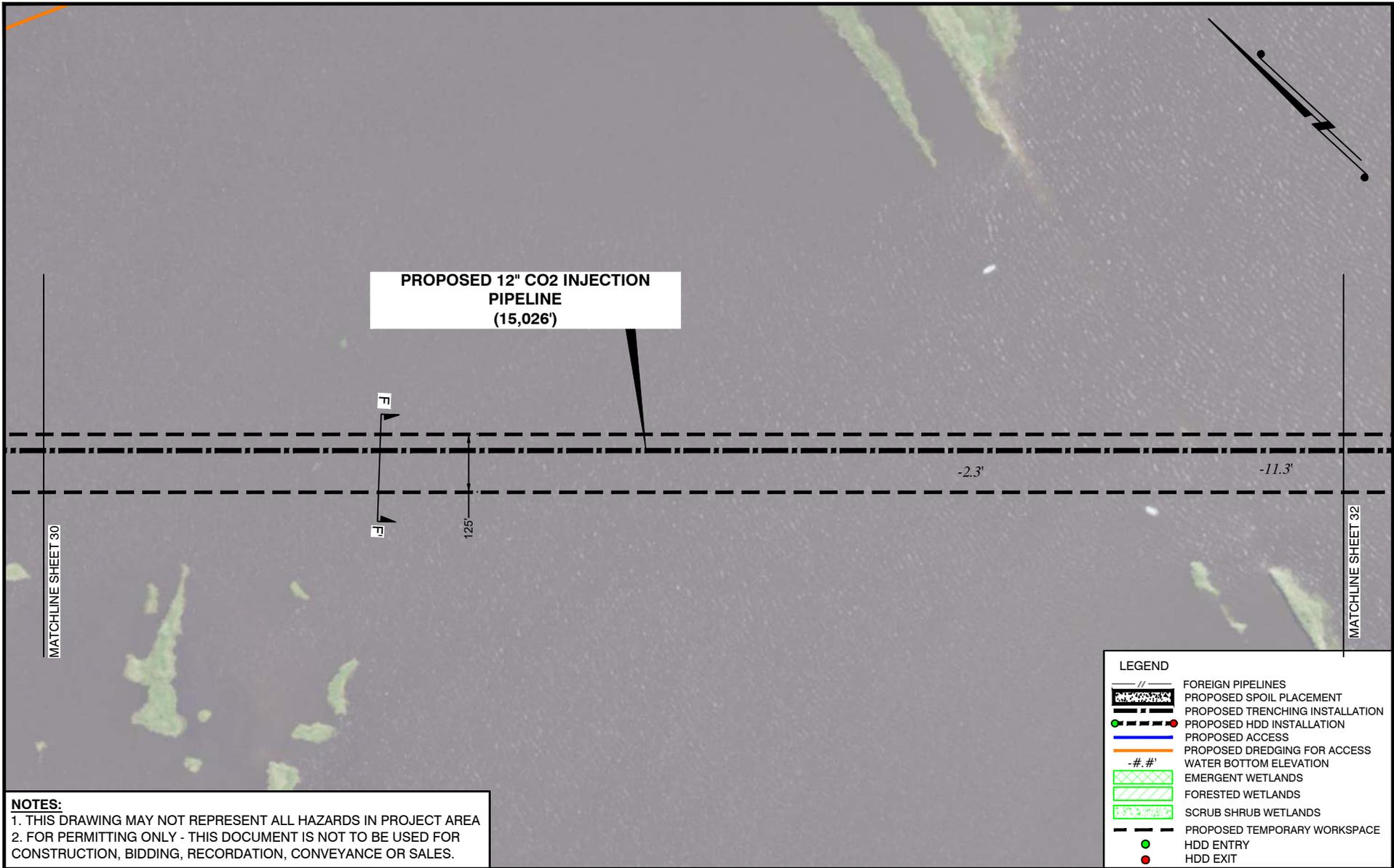
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 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

REVISION DESCRIPTION:  
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**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

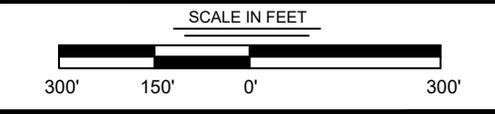
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**PROPOSED 12" CO2 INJECTION PIPELINE (15,026')**

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | -#.#' WATER BOTTOM ELEVATION    |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
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| SHEET NO: 31                          | OF 59             |

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|---|
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |
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**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

BLACK LAKE

**PROPOSED 12" CO2 INJECTION PIPELINE (15,026')**

MATCHLINE SHEET 31

MATCHLINE SHEET 33

125'

F1

F2

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | -#.#' WATER BOTTOM ELEVATION    |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |

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|---------------------------------------|-------------------|
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|---|
| SHEET NO: 32 OF 59  |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |

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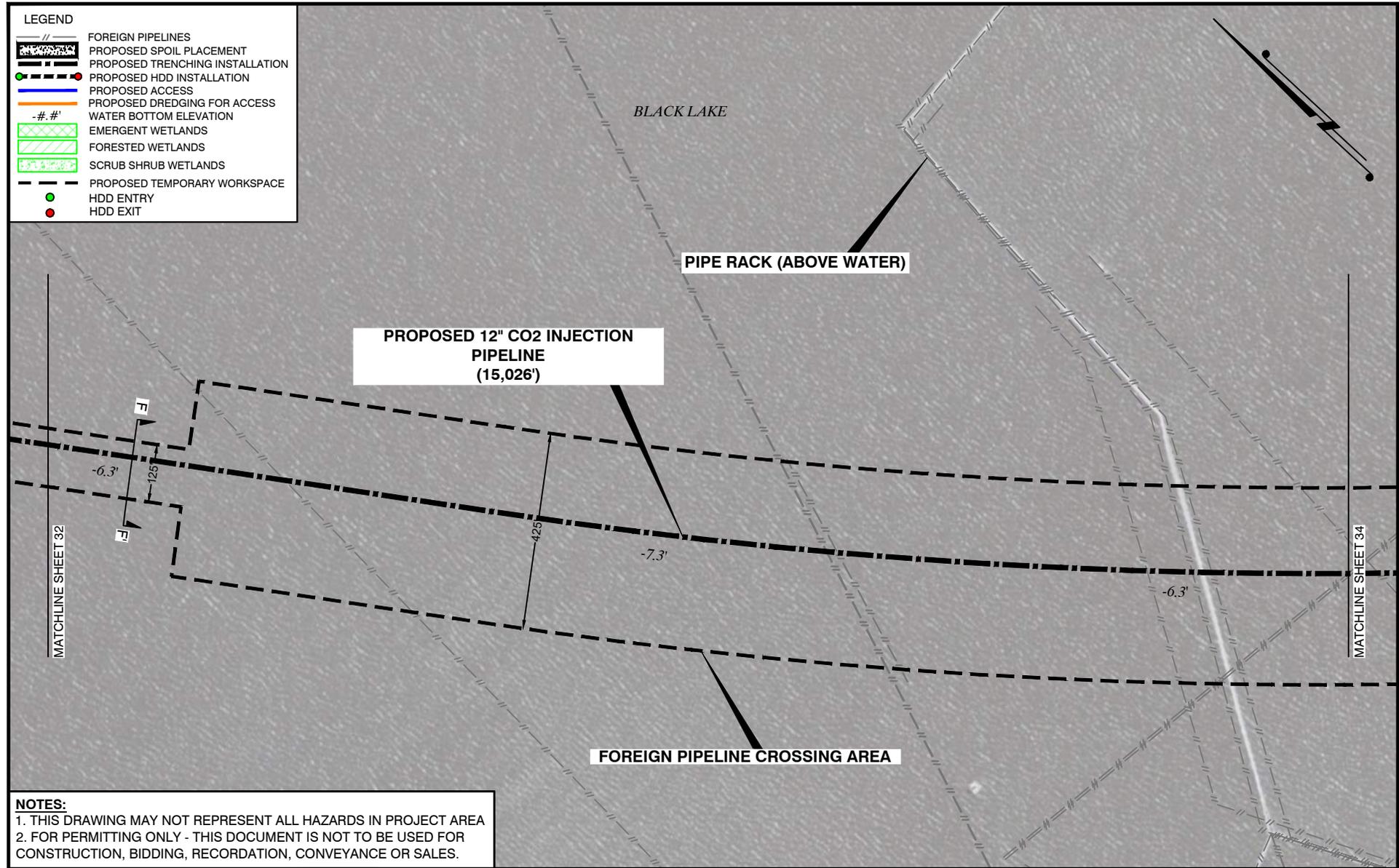
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**PRELIMINARY PIPELINE ROUTE**

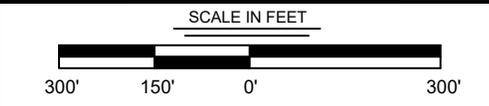
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
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 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S30-46\_REV4.DWG

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



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| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 33                          | OF 59             |

**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

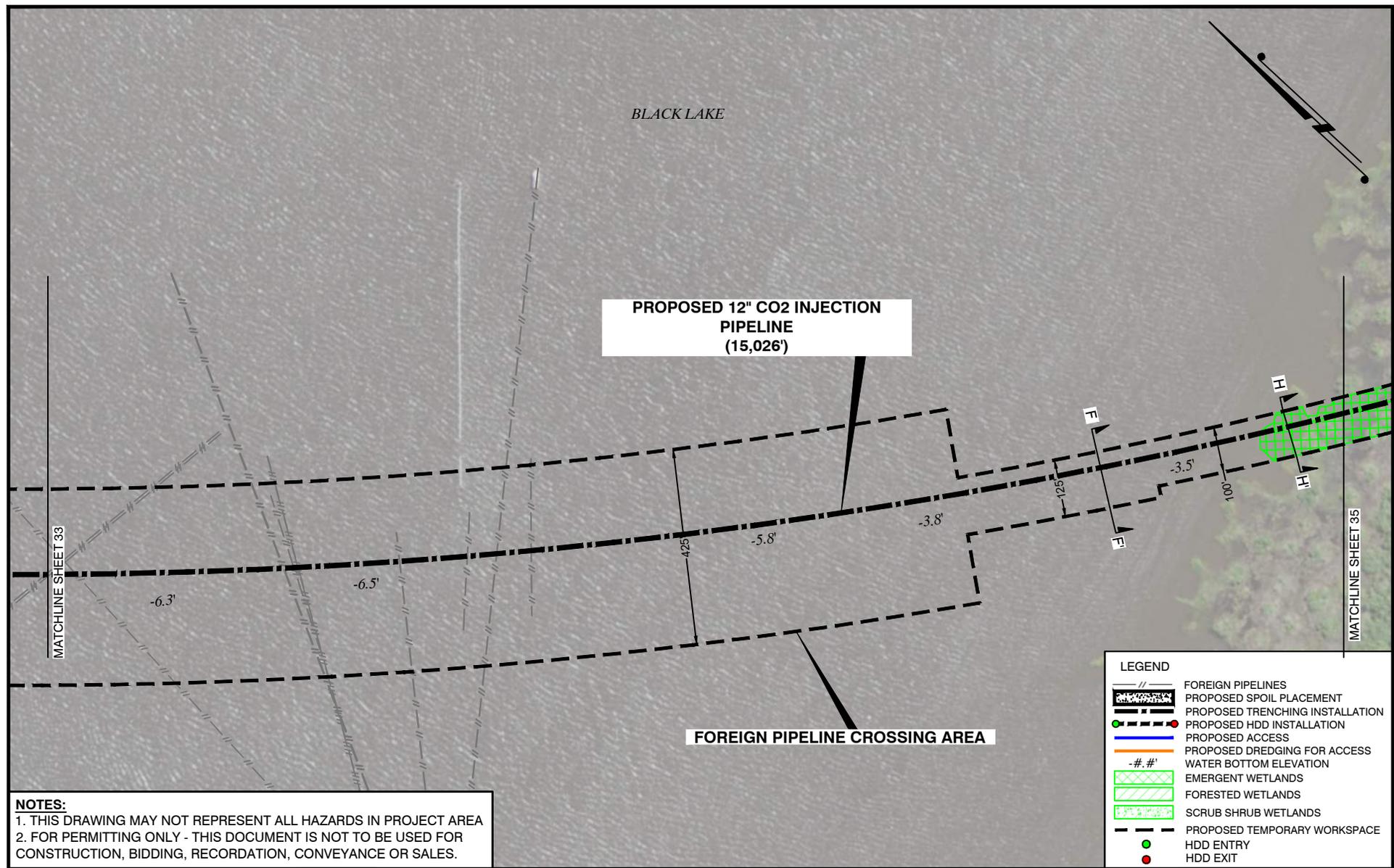
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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

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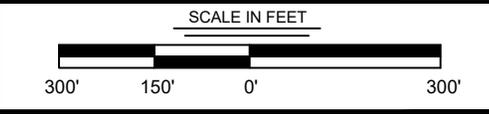


**PROPOSED 12" CO2 INJECTION PIPELINE (15,026')**

**FOREIGN PIPELINE CROSSING AREA**

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
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| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
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| SHEET NO: 34                          | OF 59             |

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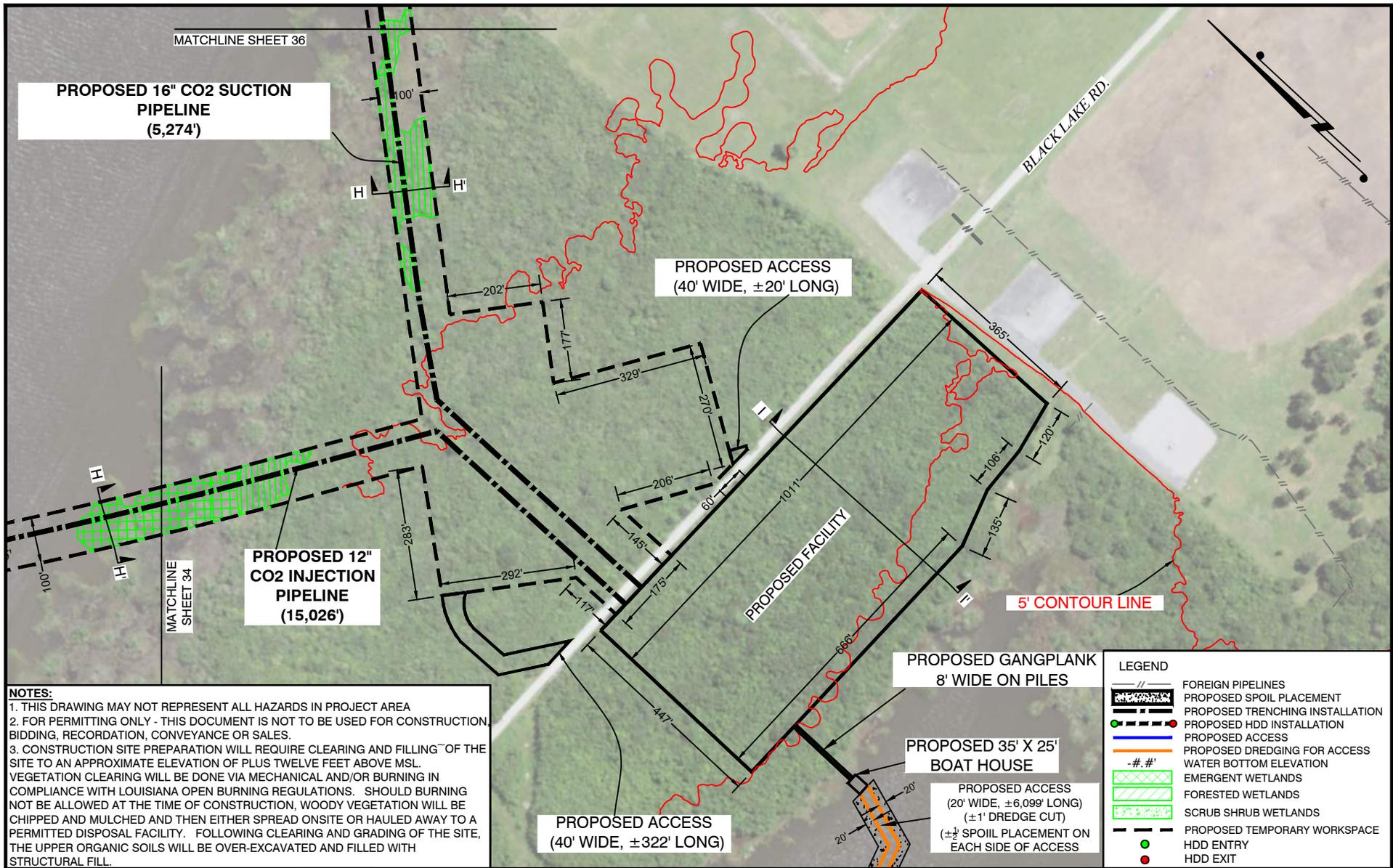
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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|---|
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |

**PRELIMINARY PIPELINE ROUTE**

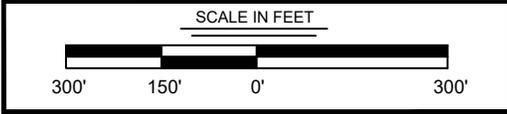
**HACKBERRY CARBON SEQUESTRATION, LLC**  
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 3. CONSTRUCTION SITE PREPARATION WILL REQUIRE CLEARING AND FILLING OF THE SITE TO AN APPROXIMATE ELEVATION OF PLUS TWELVE FEET ABOVE MSL. VEGETATION CLEARING WILL BE DONE VIA MECHANICAL AND/OR BURNING IN COMPLIANCE WITH LOUISIANA OPEN BURNING REGULATIONS. SHOULD BURNING NOT BE ALLOWED AT THE TIME OF CONSTRUCTION, WOODY VEGETATION WILL BE CHIPPED AND MULCHED AND THEN EITHER SPREAD ONSITE OR HAULED AWAY TO A PERMITTED DISPOSAL FACILITY. FOLLOWING CLEARING AND GRADING OF THE SITE, THE UPPER ORGANIC SOILS WILL BE OVER-EXCAVATED AND FILLED WITH STRUCTURAL FILL.

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
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|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



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| DRAWN BY: JPD                         | APPROVED BY: ADM  |
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| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 35 OF 59                    |                   |

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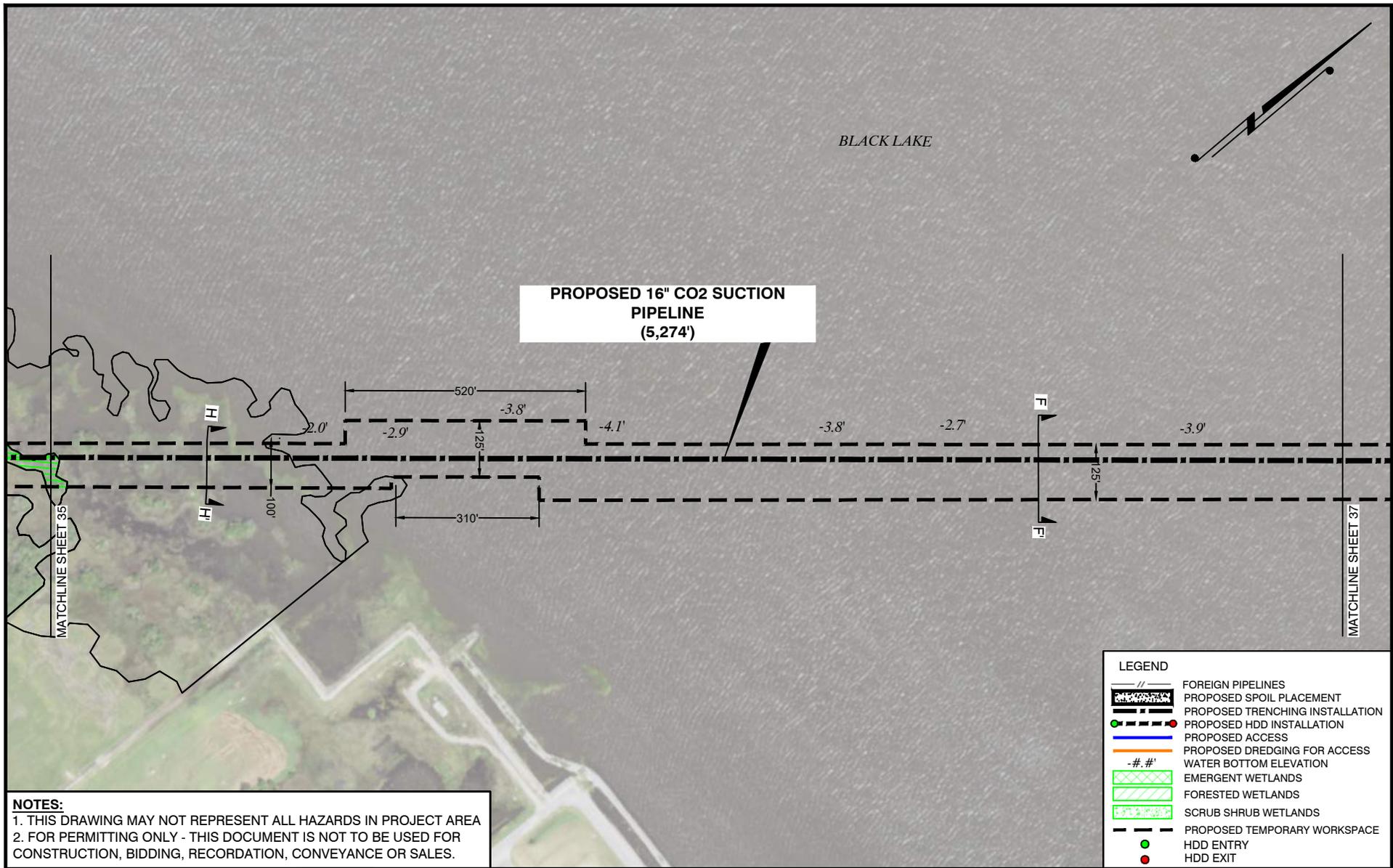
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

**PRELIMINARY PIPELINE ROUTE**

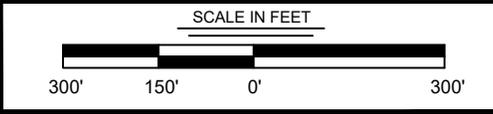
**HACKBERRY CARBON SEQUESTRATION, LLC**  
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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | -#.#'                           |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
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| PROJECTION: LOUISIANA SOUTH ZONE        |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88 |
| GRID UNITS: US SURVEY FEET              |

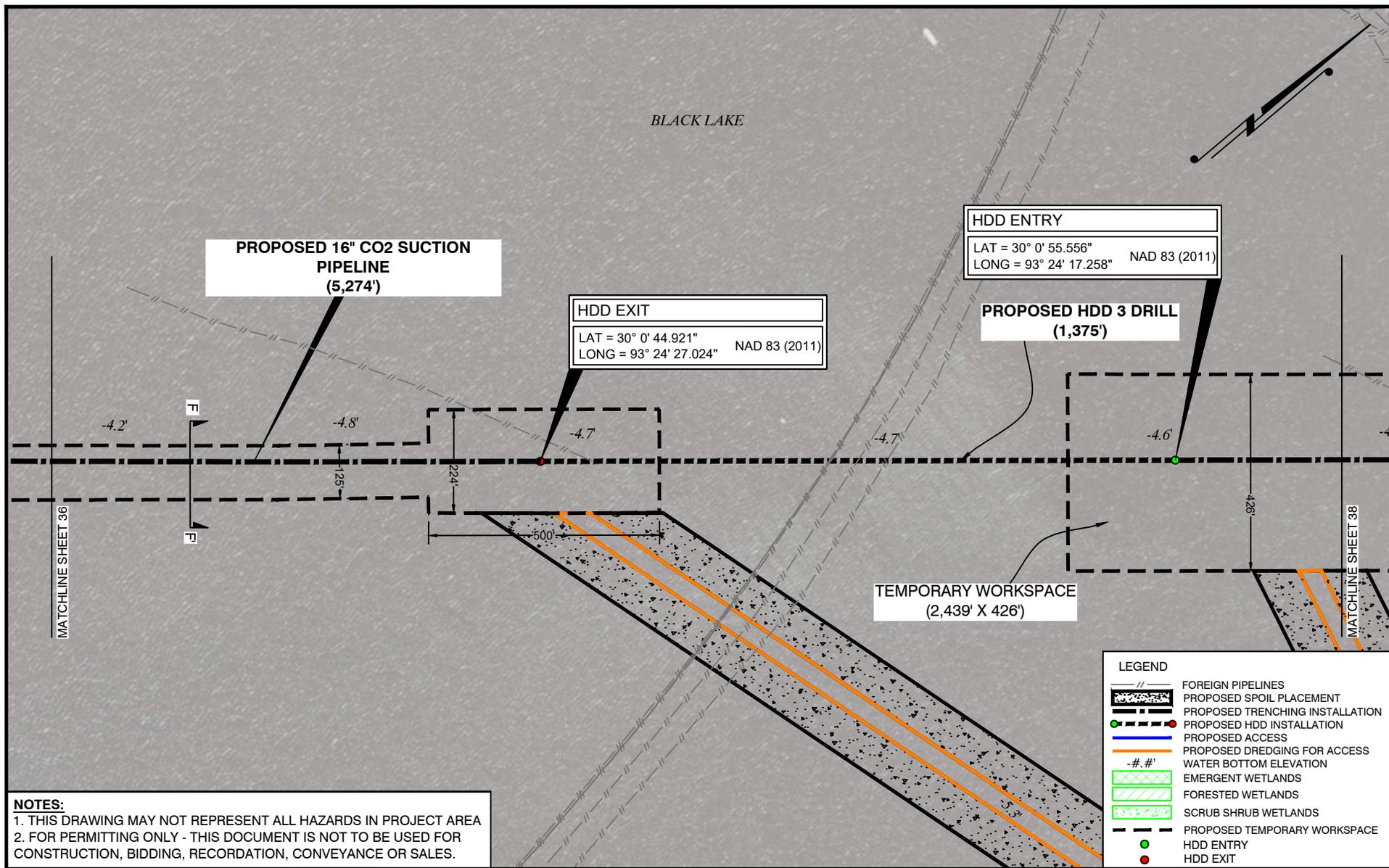
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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**PRELIMINARY PIPELINE ROUTE**

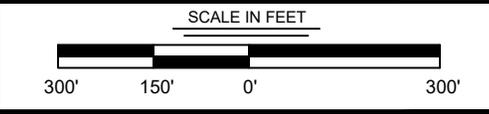
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV\4\21.0228\_S30-46\_REV4.DWG



**NOTES:**  
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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



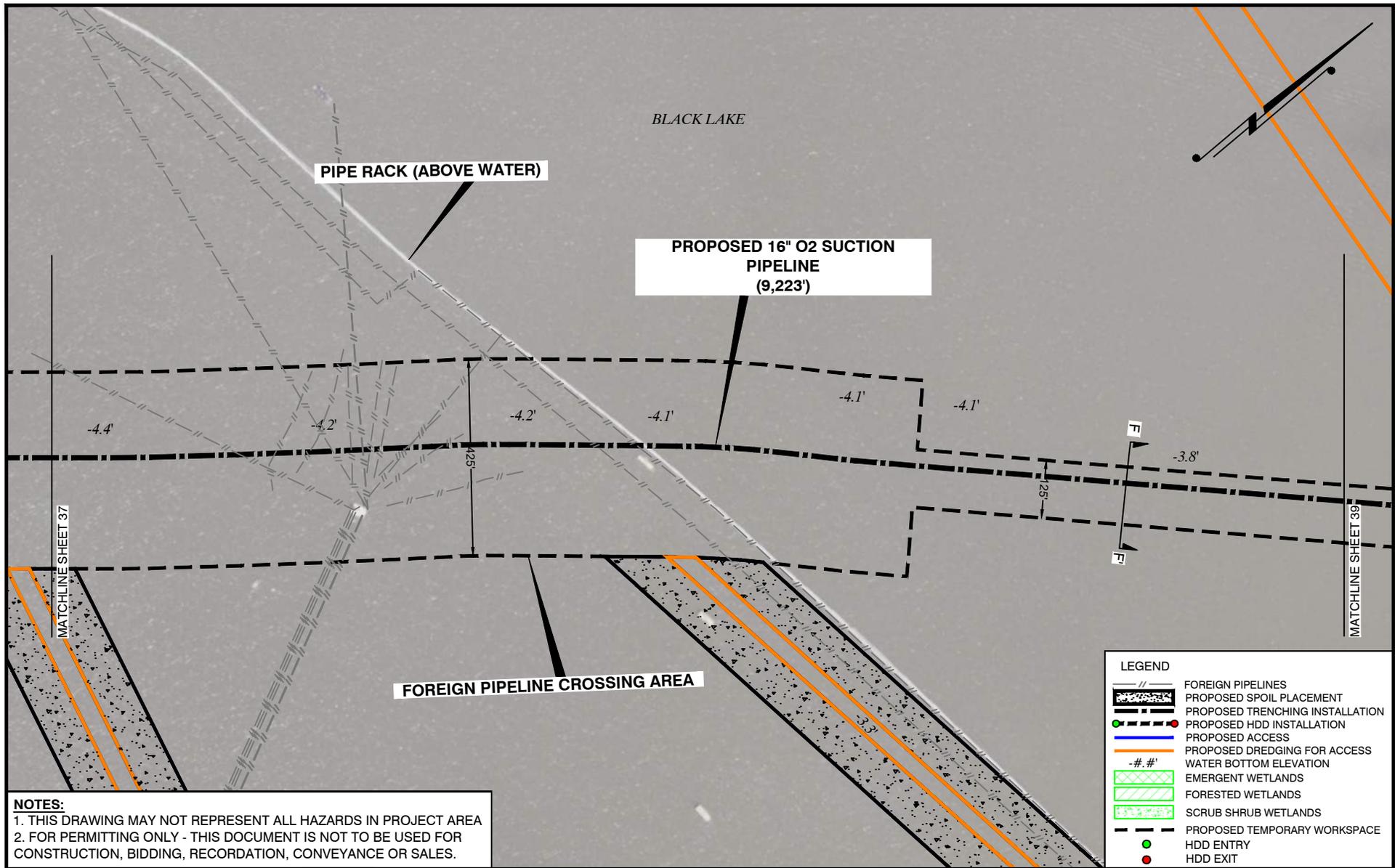
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| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 37                          | OF 59             |

**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

|  |   |
|--|---|
| <b>T. BAKER SMITH</b><br>A CENTURY OF SOLUTIONS<br>107 Global Circle, Lafayette, LA 70503<br>(337)735-2808 - tbsmith.com | PROJECTION: LOUISIANA SOUTH ZONE        |
|  | GEO. DATUM: NAD83   VERT. DATUM: NAVD88 |
| REVISION DESCRIPTION:<br>REVISED PER OCM   | GRID UNITS: US SURVEY FEET              |
| REV. NO: 4   | REV. DATE: 12/16/2021                   |
| REV. BY: RBT   |   |

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |

SCALE IN FEET

|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 38                          | OF 59             |

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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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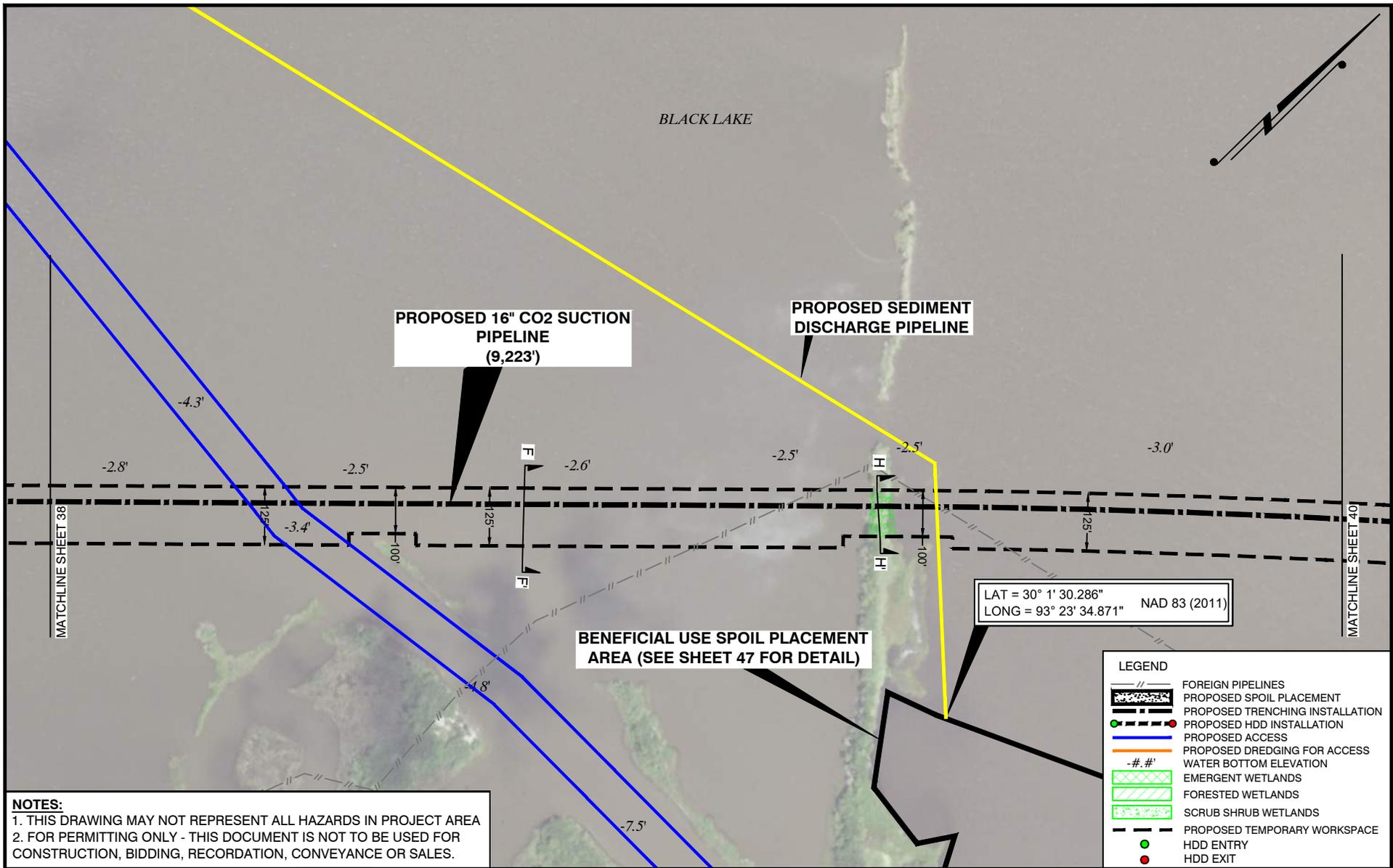
PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

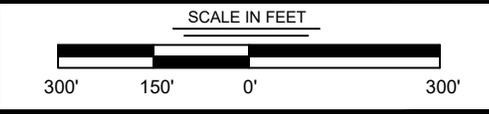
12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S30-46\_REV4.DWG



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LAT = 30° 1' 30.286"  
 LONG = 93° 23' 34.871" NAD 83 (2011)

| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 39                          | OF 59             |

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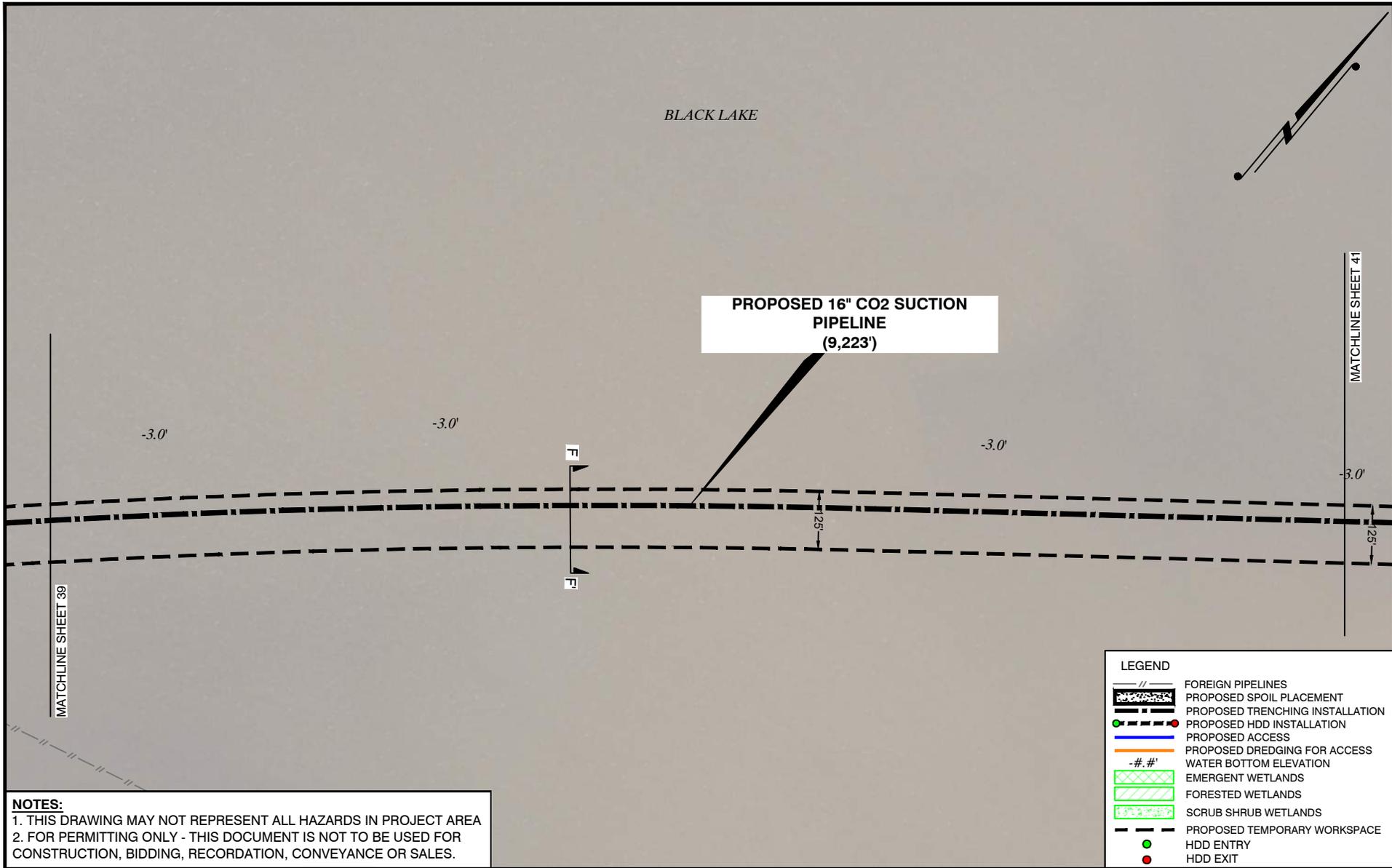
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

**PRELIMINARY PIPELINE ROUTE**

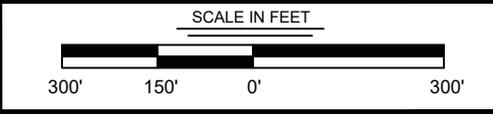
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
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 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S30-46\_REV4.DWG



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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 40                          | OF 59             |

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| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |

**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

**LEGEND**

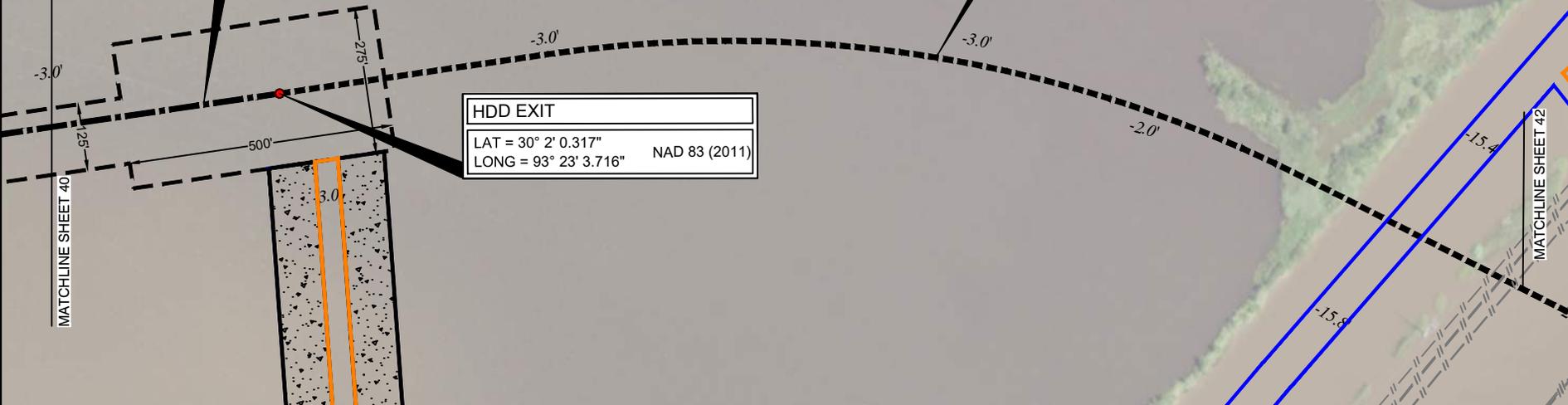
-  FOREIGN PIPELINES
-  PROPOSED SPOIL PLACEMENT
-  PROPOSED TRENCHING INSTALLATION
-  PROPOSED HDD INSTALLATION
-  PROPOSED ACCESS
-  PROPOSED DREDGING FOR ACCESS
-  WATER BOTTOM ELEVATION
-  EMERGENT WETLANDS
-  FORESTED WETLANDS
-  SCRUB SHRUB WETLANDS
-  PROPOSED TEMPORARY WORKSPACE
-  HDD ENTRY
-  HDD EXIT

BLACK LAKE

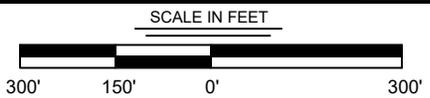
**PROPOSED 16" CO2 SUCTION PIPELINE (9,223')**

**PROPOSED HDD 2 DRILL (3,197')**

**HDD EXIT**  
 LAT = 30° 2' 0.317" NAD 83 (2011)  
 LONG = 93° 23' 3.716"



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|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 41                          | OF 59             |

**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
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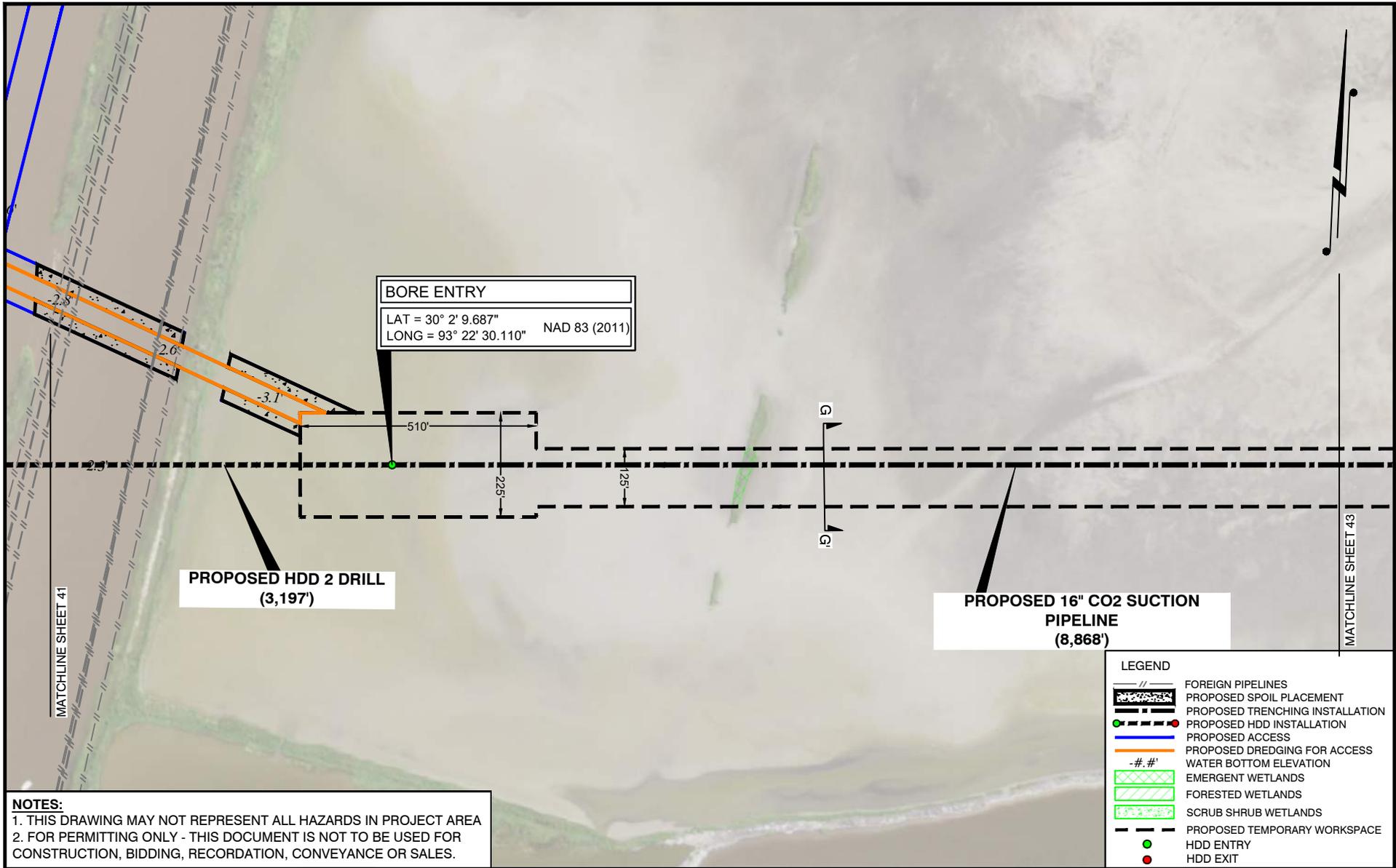
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

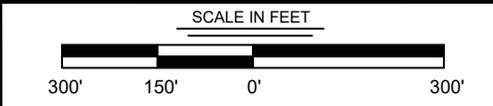
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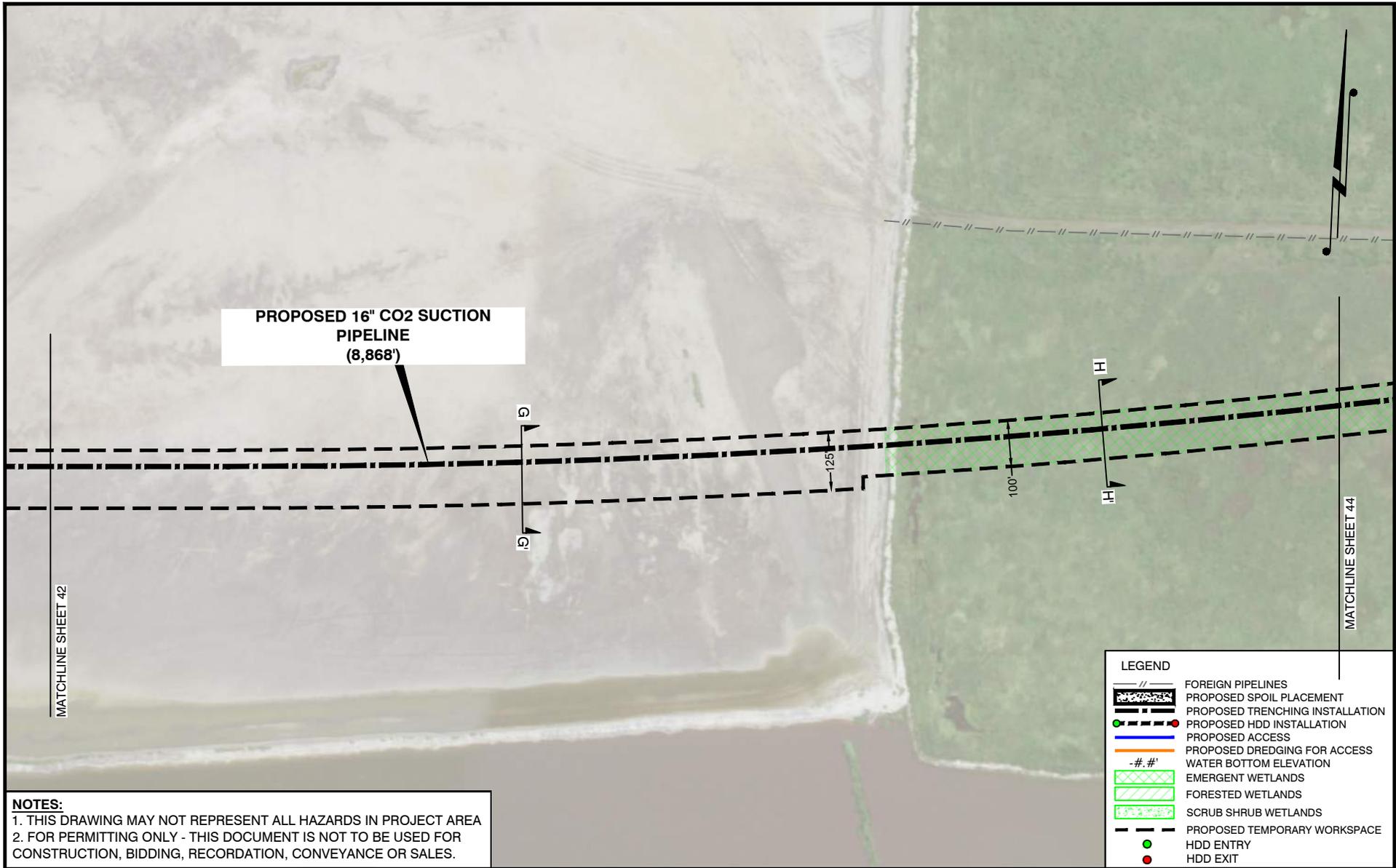
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| DRAWN BY: JPD   | APPROVED BY: ADM  |
| DATE: 06/28/2021  | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG   |                   |
| SHEET NO: 42 OF 59  |                   |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |                   |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |                   |

**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
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 CAMERON PARISH, LOUISIANA

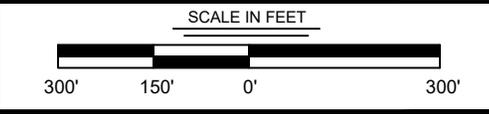
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|            | <b>T. BAKER SMITH</b><br>A CENTURY OF SOLUTIONS<br>107 Global Circle, Lafayette, LA 70503<br>(337)735-2800 - tbsmith.com |              |
| REV. NO: 4 | REV. DATE: 12/16/2021  | REV. BY: RBT |

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 43                          | OF 59             |

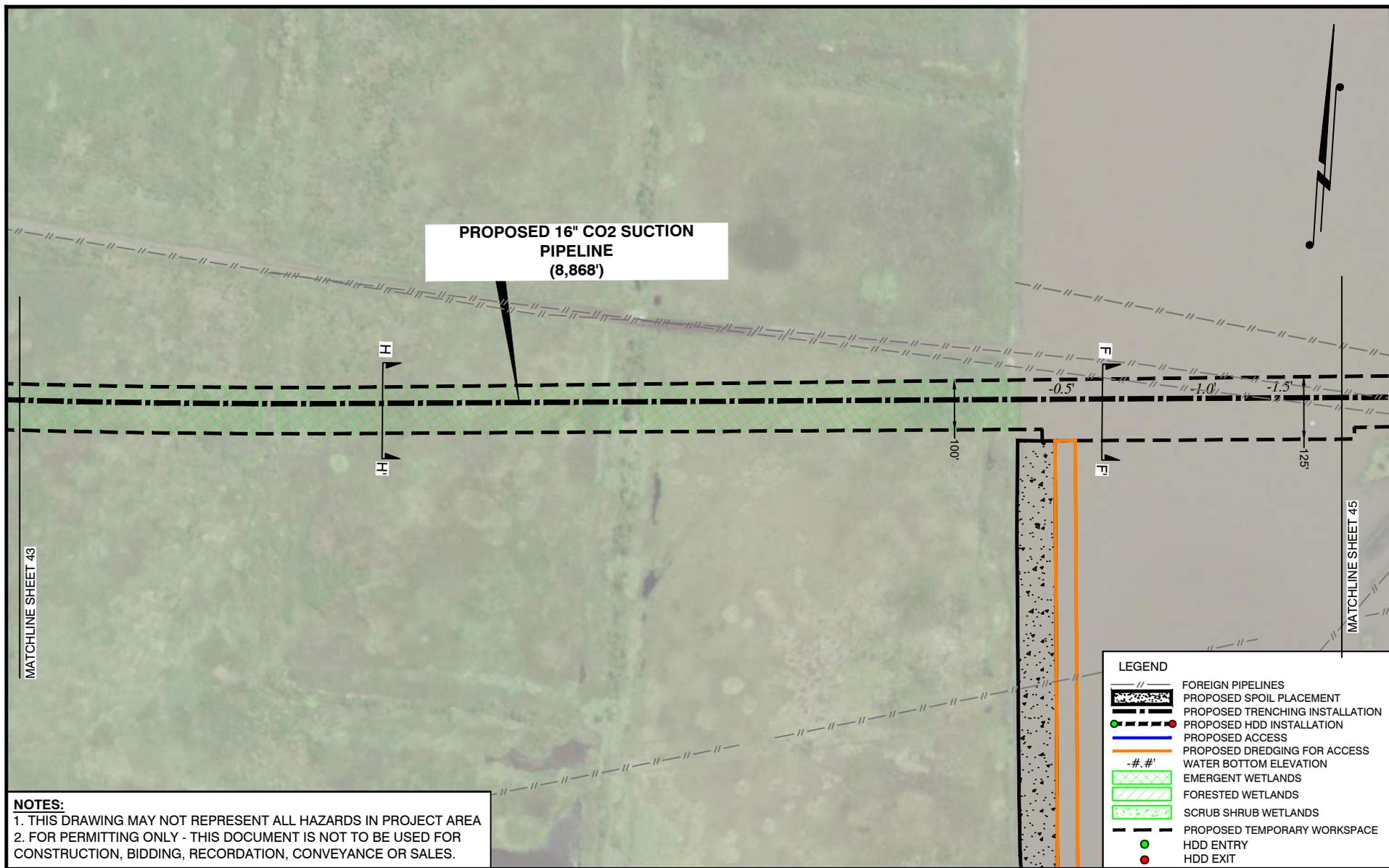
**PRELIMINARY PIPELINE ROUTE**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
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 CAMERON PARISH, LOUISIANA

|  |  |                       |              |
|--|--|-----------------------|--------------|
| <b>T. BAKER SMITH</b><br>A CENTURY OF SOLUTIONS<br>107 Global Circle, Lafayette, LA 70503<br>(337)735-2800 - tbsmith.com | REV. NO: 4                               | REV. DATE: 12/16/2021 | REV. BY: RBT |
|  | REVISION DESCRIPTION:<br>REVISED PER OCM |                       |              |

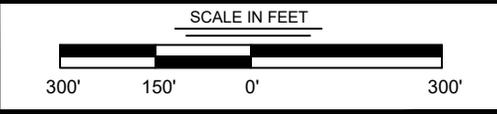
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| PROJECTION: LOUISIANA SOUTH ZONE        |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88 |
| GRID UNITS: US SURVEY FEET              |

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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
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|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



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|---------------------------------------|-------------------|
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| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
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| SHEET NO: 44                          | OF 59             |

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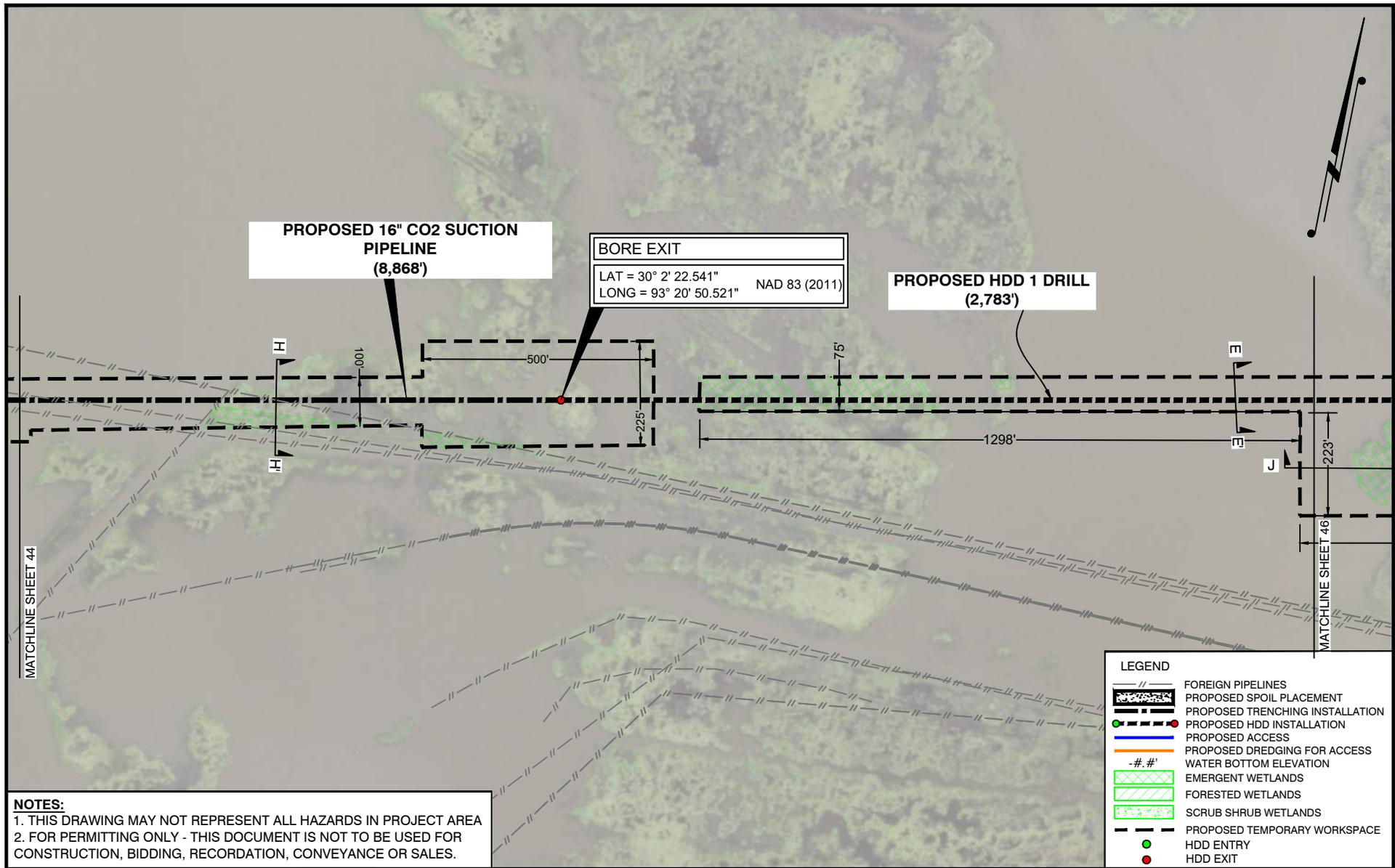
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|---|
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |

**PRELIMINARY PIPELINE ROUTE**

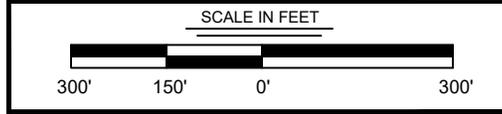
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
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|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
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|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
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| DRAWN BY: JPD                         | APPROVED BY: ADM  |
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| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 45                          | OF 59             |

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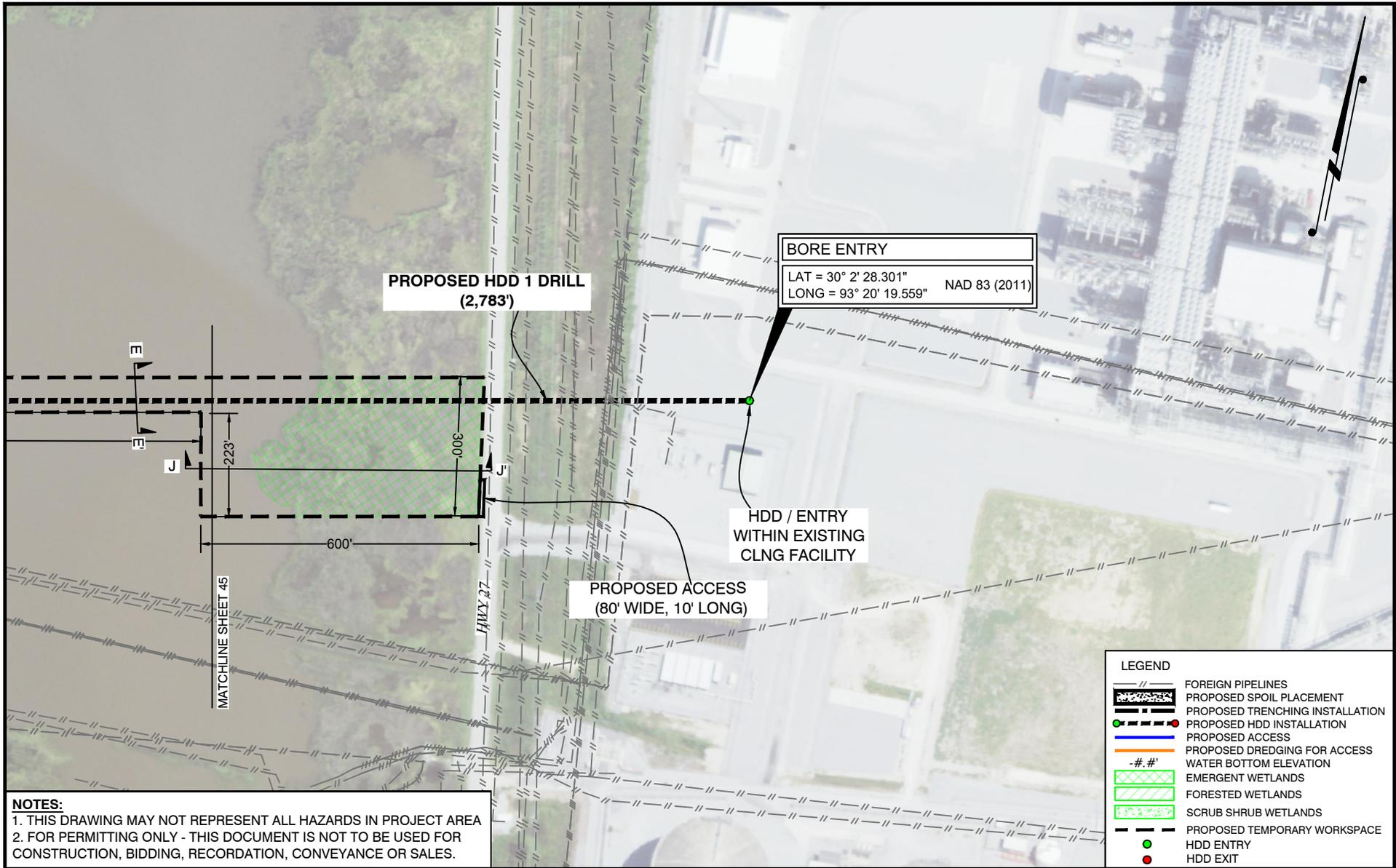
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

**PRELIMINARY PIPELINE ROUTE**

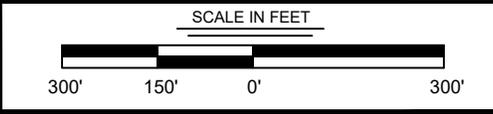
**HACKBERRY CARBON SEQUESTRATION, LLC**  
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 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/21/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S30-46\_REV4.DWG



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| LEGEND |                                 |
|--------|---------------------------------|
|        | FOREIGN PIPELINES               |
|        | PROPOSED SPOIL PLACEMENT        |
|        | PROPOSED TRENCHING INSTALLATION |
|        | PROPOSED HDD INSTALLATION       |
|        | PROPOSED ACCESS                 |
|        | PROPOSED DREDGING FOR ACCESS    |
|        | WATER BOTTOM ELEVATION          |
|        | EMERGENT WETLANDS               |
|        | FORESTED WETLANDS               |
|        | SCRUB SHRUB WETLANDS            |
|        | PROPOSED TEMPORARY WORKSPACE    |
|        | HDD ENTRY                       |
|        | HDD EXIT                        |



|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S30-46_REV4.DWG |                   |
| SHEET NO: 46                          | OF 59             |

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 A CENTURY OF SOLUTIONS  
 107 Global Circle, Lafayette, LA 70503  
 (337)735-2800 - tbsmith.com

|   |
|---|
| PROJECTION: LOUISIANA SOUTH ZONE        |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88 |
| GRID UNITS: US SURVEY FEET              |

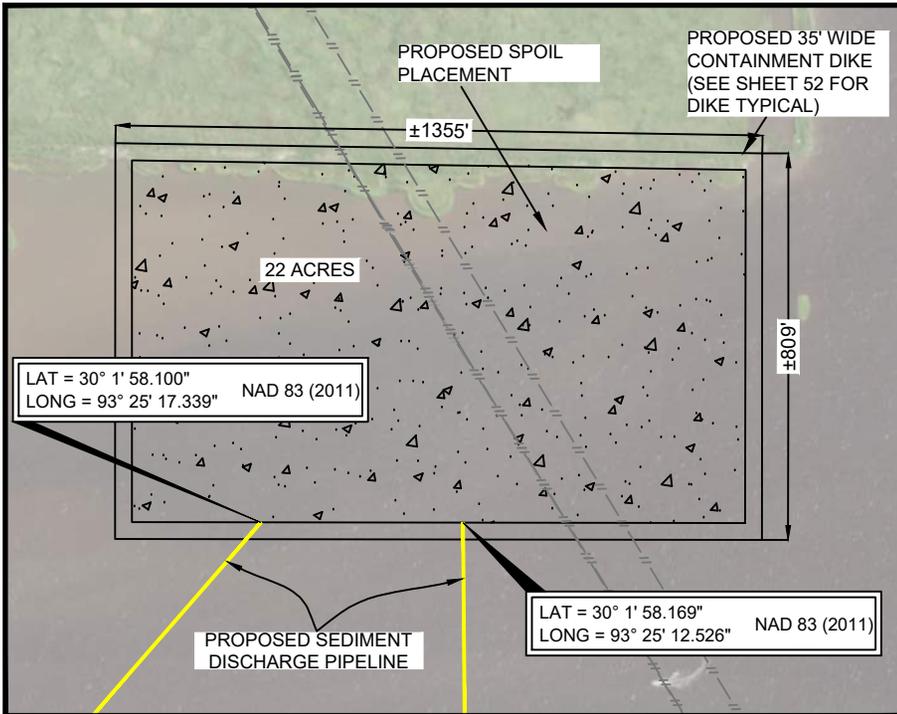
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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REVISION DESCRIPTION:  
 REVISED PER OCM

**PRELIMINARY PIPELINE ROUTE**

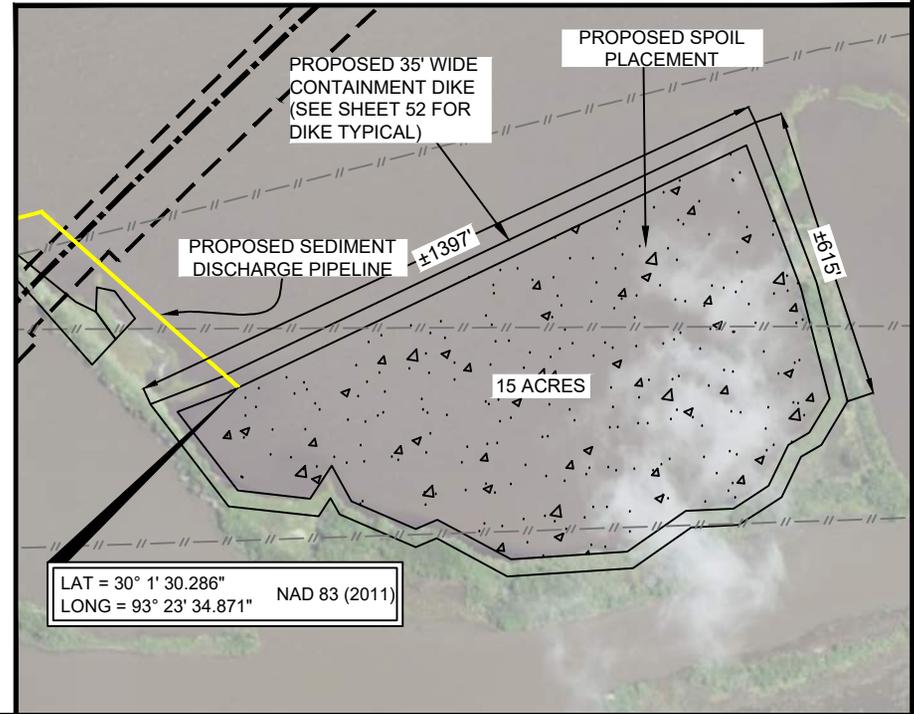
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\12021.0228\DWG\COE\REV4\21.0228\_S47-57\_REV4.DWG



### PROPOSED BENEFICIAL USE SPOIL PLACEMENT DETAILS

SCALE: 1" = 400'

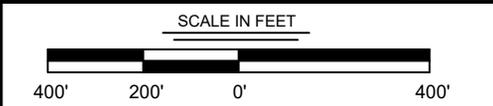


### PRELIMINARY SPOIL PLACEMENT DETAILS

**HACKBERRY CARBON SEQUESTRATION, LLC**  
**HACKBERRY CARBON SEQUESTRATION PROJECT**  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

| LEGEND |                                      |
|--------|--------------------------------------|
|        | FOREIGN PIPELINES                    |
|        | PROPOSED SPOIL PLACEMENT             |
|        | PROPOSED TRENCHING INSTALLATION      |
|        | PROPOSED ACCESS                      |
|        | PROPOSED TEMPORARY WORKSPACE         |
|        | PROPOSED SEDIMENT DISCHARGE PIPELINE |

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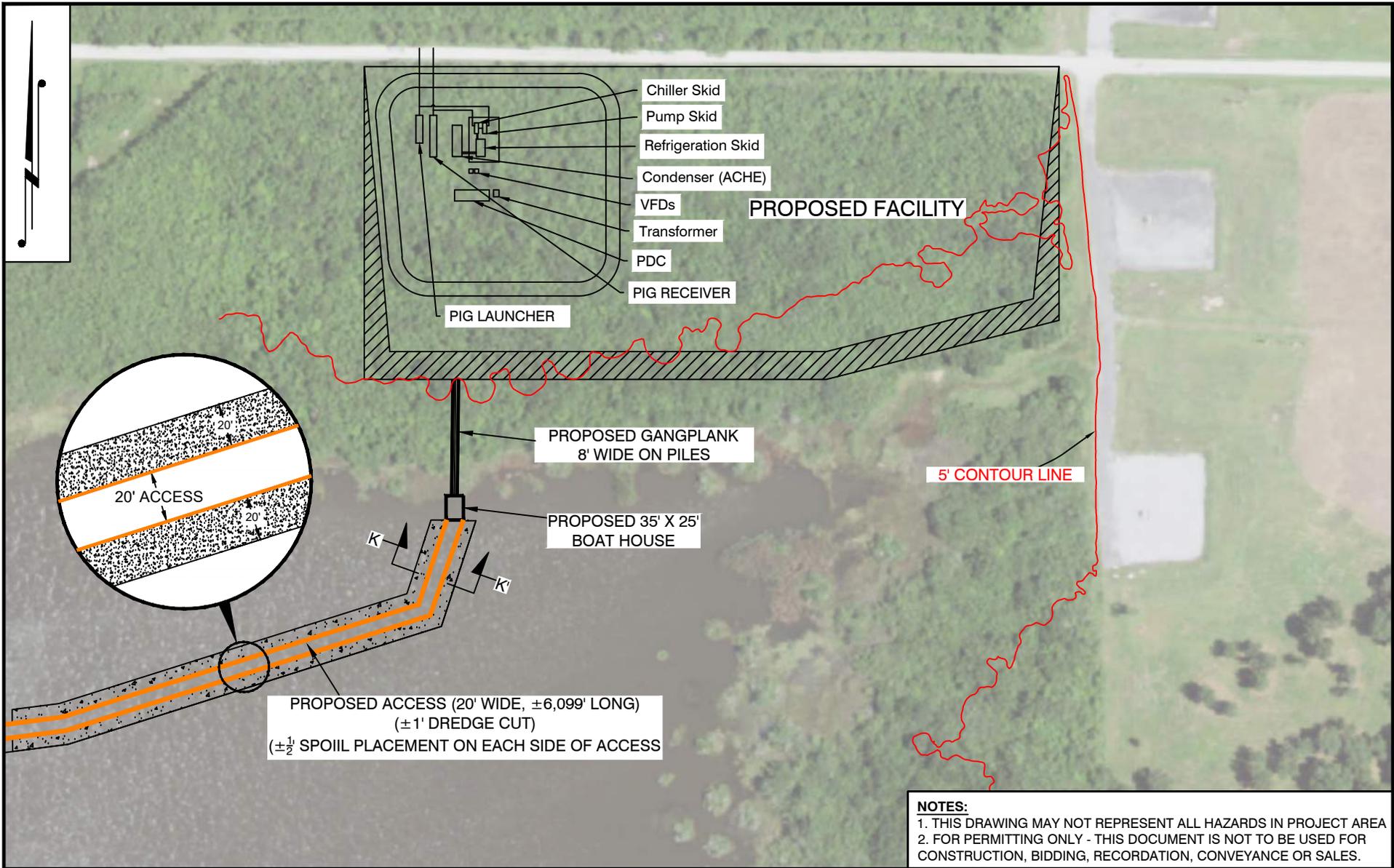
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| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |
| SHEET NO: 47                          | OF 59             |

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|--|
| PROJECTION: LOUISIANA SOUTH ZONE         |
| GEO. DATUM: NAD83   VERT. DATUM: NAVD88  |
| GRID UNITS: US SURVEY FEET               |
| REVISION DESCRIPTION:<br>REVISED PER OCM |

12/16/2021 - P:\Y-2021\12021.0228\DWG\COE\REV4\121.0228\_S47-57\_REV4.DWG



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SCALE IN FEET

**TBS**  
**T. BAKER SMITH**  
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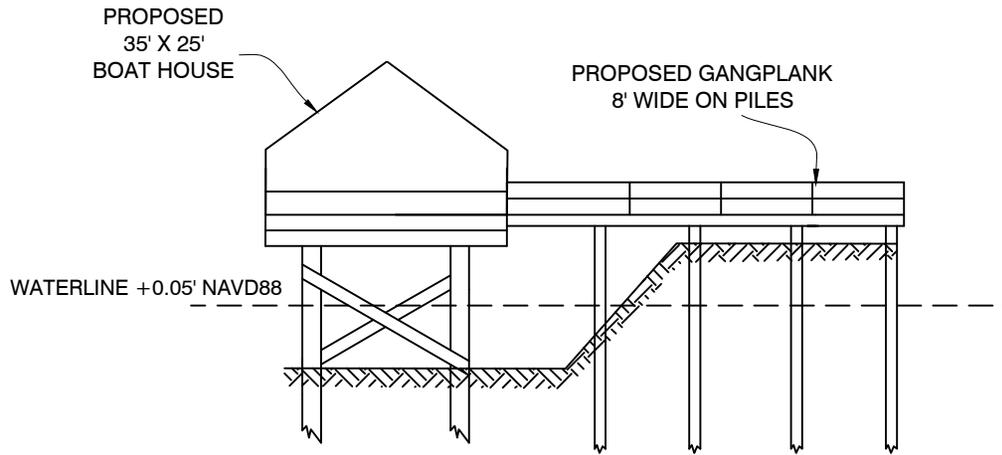
REV. NO: 4    REV. DATE: 12/16/2021    REV. BY: RBT

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| DATE: 06/28/2021  | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG   |                   |
| SHEET NO: 48  | OF 59             |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |                   |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |                   |

**PRELIMINARY PLAN VIEW FOR FACILITY**

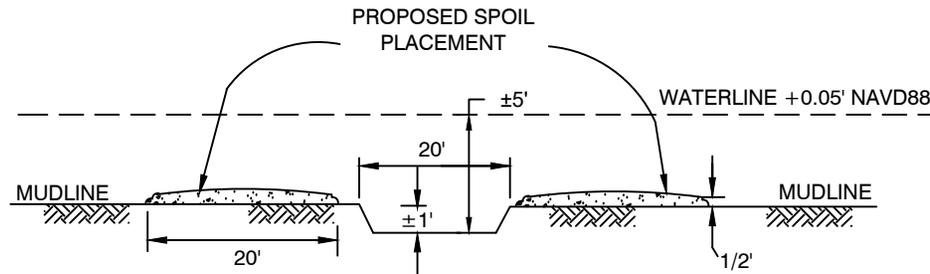
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA

12/16/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S47-57\_REV4.DWG



+1.70 MHHW  
+0.05 MLLW  
NAVD88

**TYPICAL BOATHOUSE & GANGPLANK**  
SCALE: N.T.S.



**CROSS-SECTION K-K':  
PROPOSED BOATHOUSE ACCESS**  
SCALE: N.T.S.

**NOTES:**

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|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |

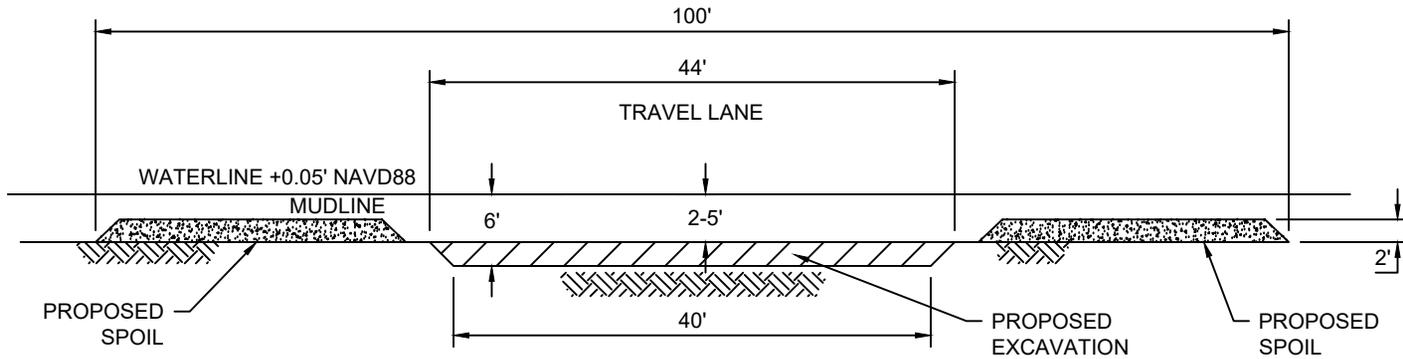
**PRELIMINARY BOATHOUSE & GANGPLANK TYPICAL**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
**HACKBERRY CARBON SEQUESTRATION PROJECT**  
**PROPOSED 16" SUCTION & 12" INJECTION PIPELINES**  
**LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20**  
**T12S-R11W, SECTIONS 12 & 13**  
**CAMERON PARISH, LOUISIANA**

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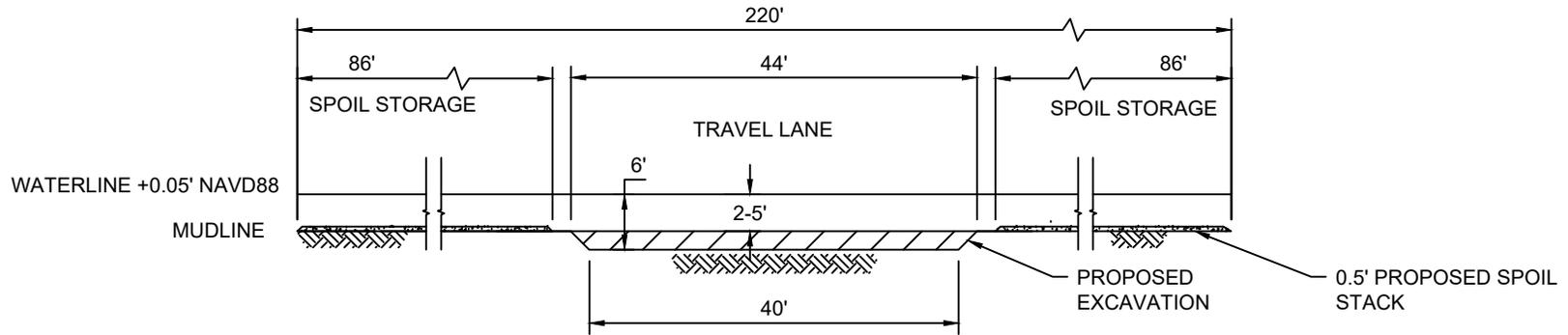
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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REVISION DESCRIPTION:  
REVISED PER OCM



**CROSS-SECTION A-A':  
WATER ACCESS CHANNEL**  
SCALE: N.T.S.

+1.70 MHHW  
+0.05 MLLW  
NAVD88



**CROSS-SECTION B-B':  
WATER ACCESS CHANNEL**  
SCALE: N.T.S.

**NOTES:**

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|               |                         |              |           |
|---------------|-------------------------|--------------|-----------|
| DRAWN BY:     | JPD                     | APPROVED BY: | ADM       |
| DATE:         | 06/28/2021              | JOB NO:      | 2021.0228 |
| DRAWING NAME: | 21.0228_S47-57_REV4.DWG |              |           |

**PRELIMINARY**

**TYPICALS**

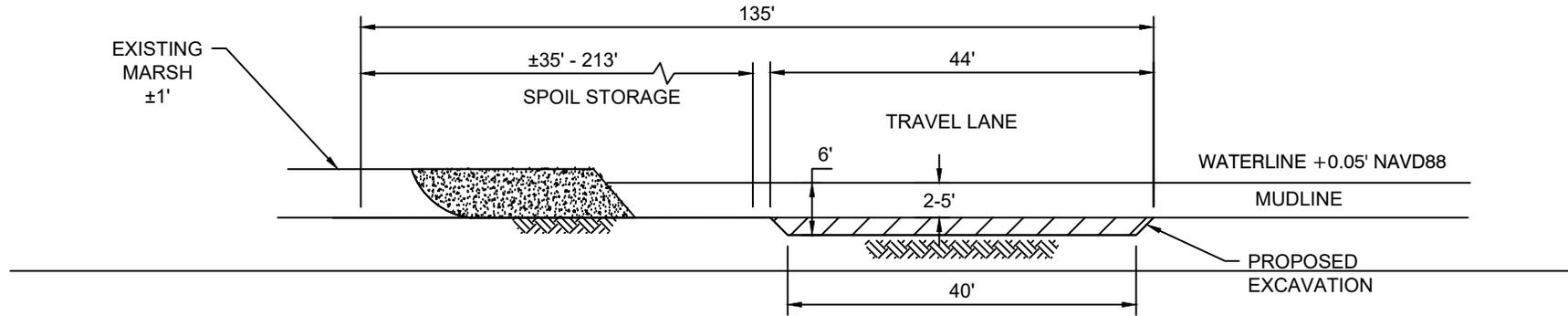
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA



|             |                             |    |           |
|-------------|-----------------------------|----|-----------|
| SHEET NO:   | <b>50</b>                   | OF | <b>59</b> |
| PROJECTION: | LOUISIANA SOUTH ZONE        |    |           |
| GEO. DATUM: | NAD83   VERT. DATUM: NAVD88 |    |           |
| GRID UNITS: | US SURVEY FEET              |    |           |

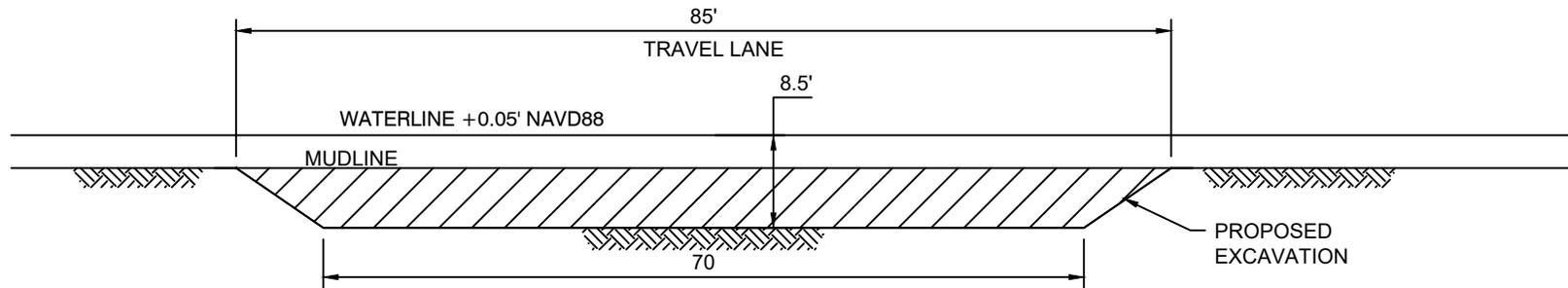
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| REV. NO: | 4 | REV. DATE: | 12/16/2021 | REV. BY: | RBT |
|----------|---|------------|------------|----------|-----|

REVISION DESCRIPTION:  
REVISED PER OCM



**CROSS-SECTION C-C':  
WATER ACCESS CHANNEL**  
SCALE: N.T.S.

+1.70 MHHW  
+0.05 MLLW  
NAVD88



**SECTION D-D':  
WATER ACCESS CHANNEL**  
SCALE: N.T.S.

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| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |
| SHEET NO: 51                          | OF 59             |

**PRELIMINARY**

**TYPICALS**

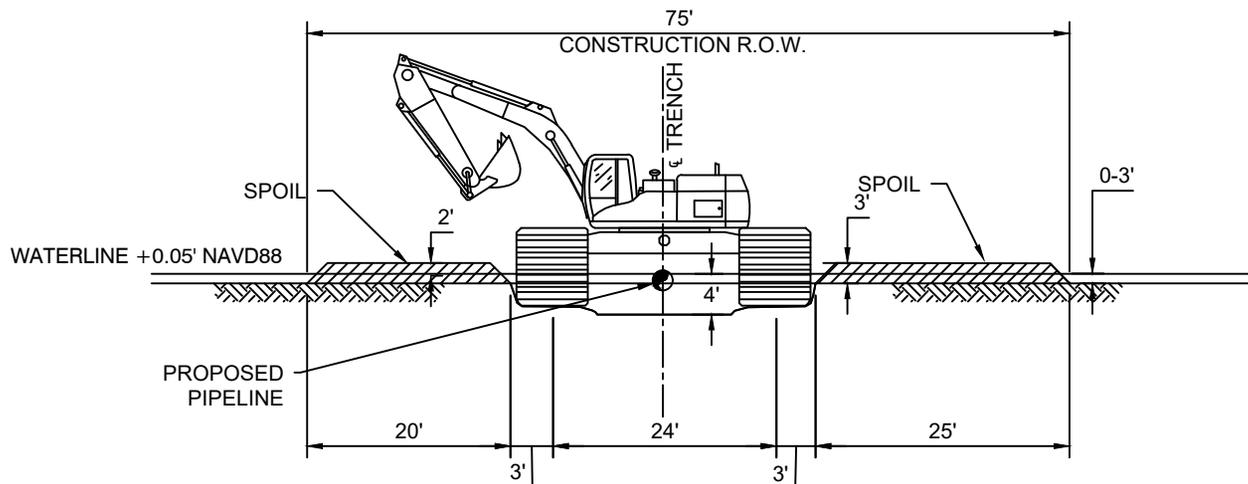
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
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 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA



PROJECTION: LOUISIANA SOUTH ZONE  
 GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
 GRID UNITS: US SURVEY FEET

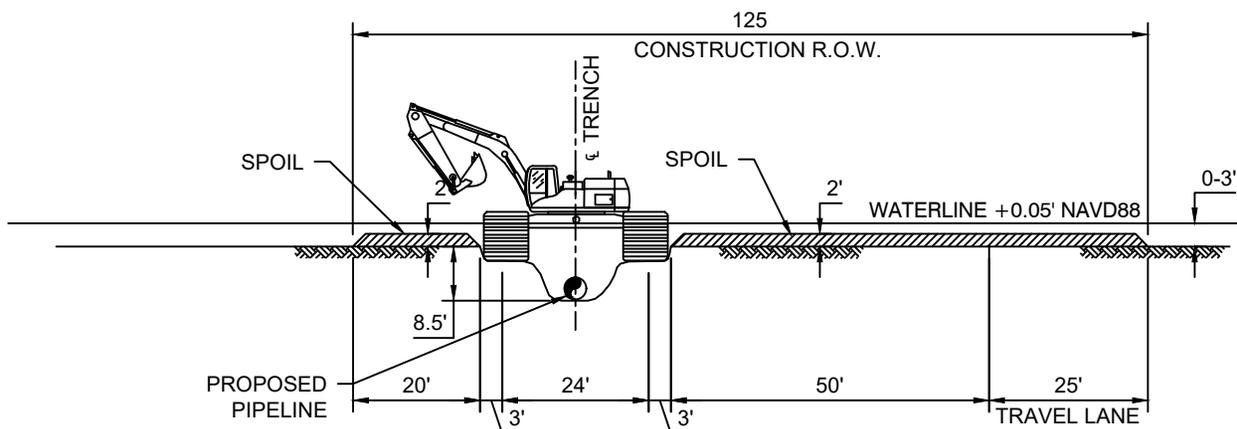
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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REVISION DESCRIPTION:  
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**SECTION E-E':  
FLOATATION DITCH**  
SCALE: N.T.S.

+1.70 MHHW  
+0.05 MLLW  
NAVD88



**SECTION F-F':  
AMPHIBIOUS EXCAVATOR INSTALLATION**  
SCALE: N.T.S.

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| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |

**PRELIMINARY**

**TYPICALS**

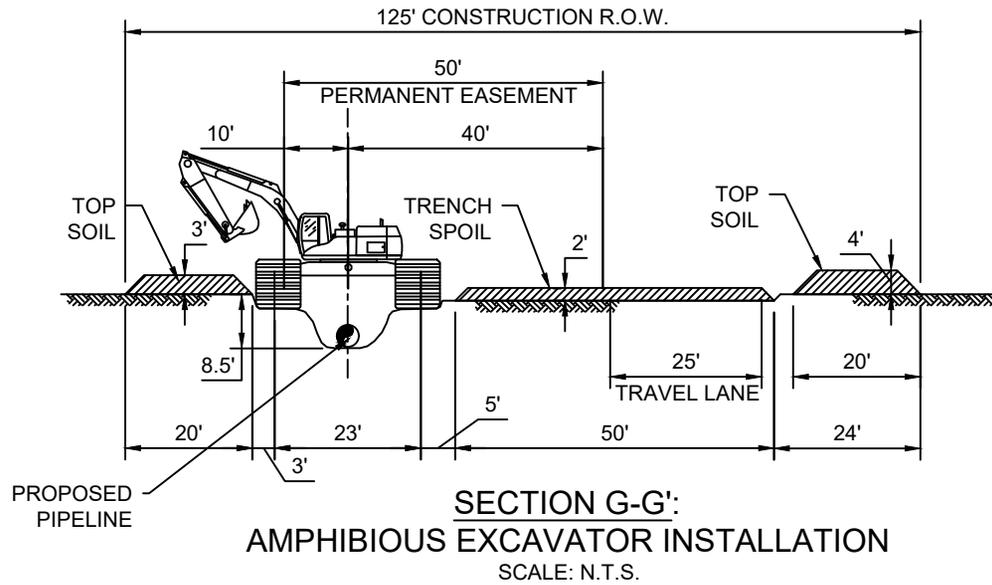
**HACKBERRY CARBON SEQUESTRATION, LLC**  
**HACKBERRY CARBON SEQUESTRATION PROJECT**  
**PROPOSED 16" SUCTION & 12" INJECTION PIPELINES**  
**LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20**  
**T12S-R11W, SECTIONS 12 & 13**  
**CAMERON PARISH, LOUISIANA**



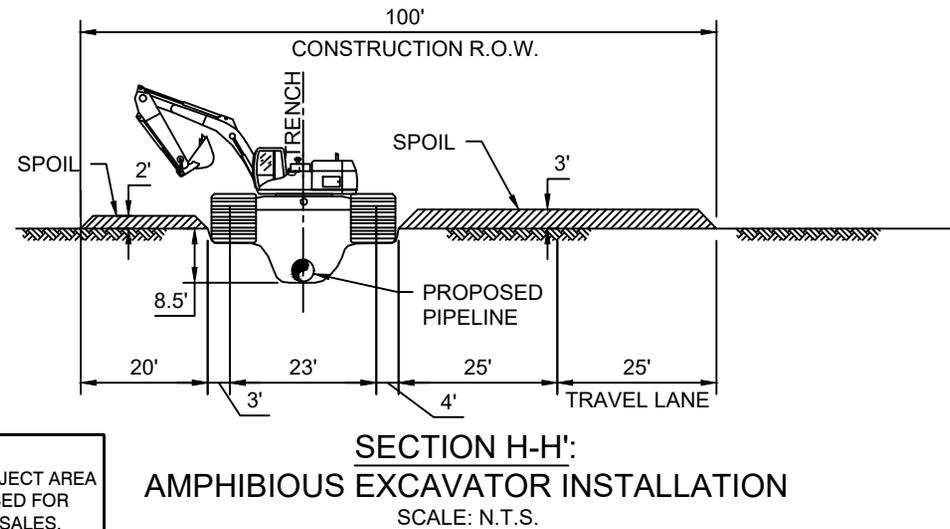
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| REVISION DESCRIPTION:<br>REVISED PER OCM  |       |

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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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+1.70 MHHW  
+0.05 MLLW  
NAVD88

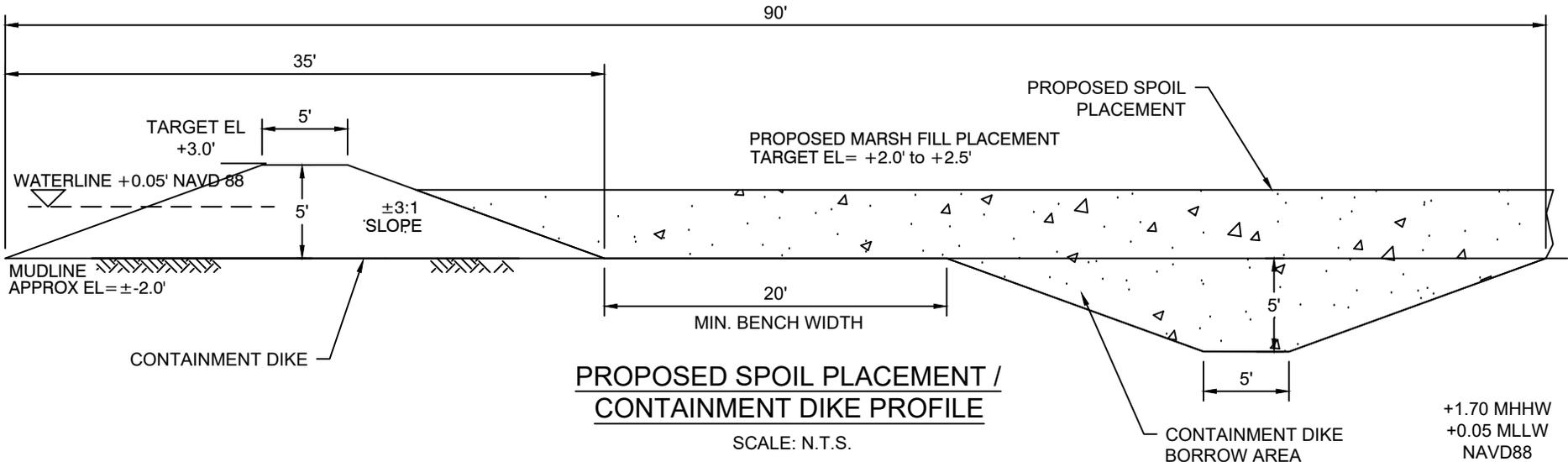


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|   | DATE: 06/28/2021                      | JOB NO: 2021.0228 |
|   | DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |
|   | SHEET NO: 53 OF 59                    |                   |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |                                       |                   |
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| REV. NO: 4  | REV. DATE: 12/16/2021                 | REV. BY: RBT      |

**PRELIMINARY TYPICALS**

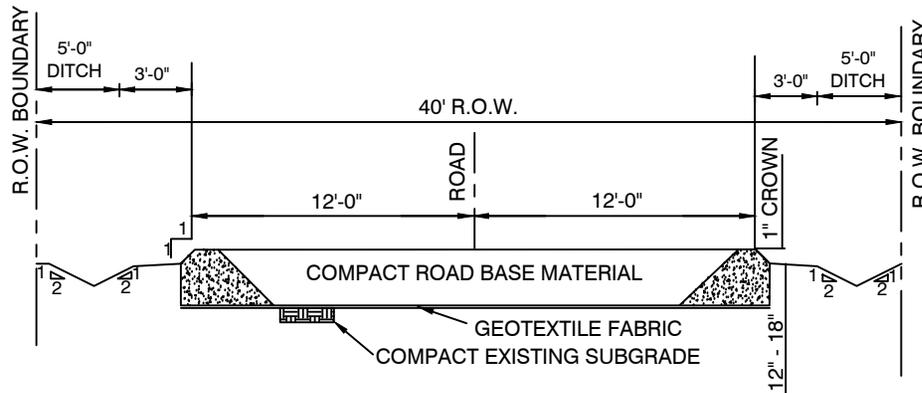
**HACKBERRY CARBON SEQUESTRATION, LLC**  
**HACKBERRY CARBON SEQUESTRATION PROJECT**  
**PROPOSED 16" SUCTION & 12" INJECTION PIPELINES**  
**LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20**  
**T12S-R11W, SECTIONS 12 & 13**  
**CAMERON PARISH, LOUISIANA**



**PROPOSED SPOIL PLACEMENT / CONTAINMENT DIKE PROFILE**

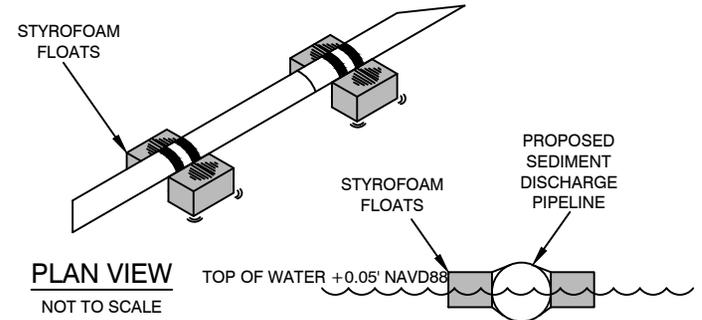
SCALE: N.T.S.

+1.70 MHHW  
+0.05 MLLW  
NAVD88



**TYPICAL PROPOSED ACCESS ROAD**

SCALE: N.T.S.



**PLAN VIEW**  
NOT TO SCALE

**TYPICAL PROPOSED SEDIMENT DISCHARGE PIPELINE**

NOT TO SCALE

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| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |
| SHEET NO: 54                          | OF 59             |

**PRELIMINARY**

**TYPICALS**

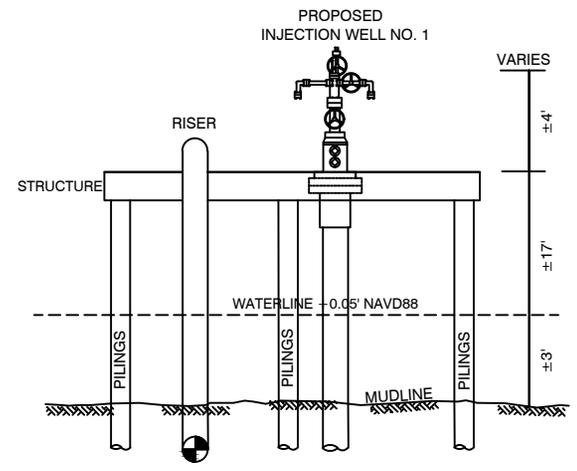
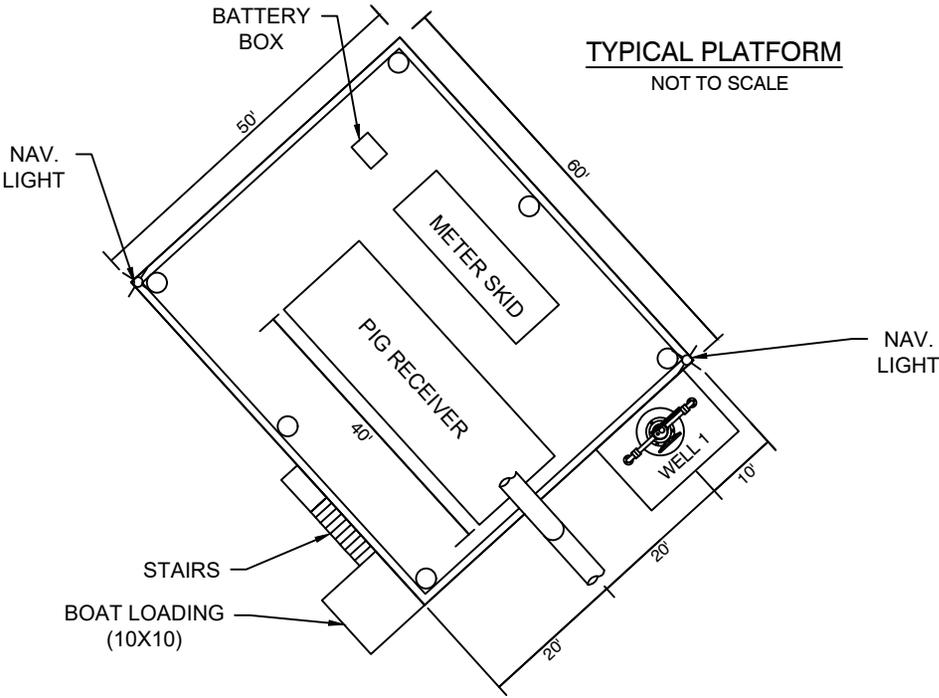
**HACKBERRY CARBON SEQUESTRATION, LLC**  
**HACKBERRY CARBON SEQUESTRATION PROJECT**  
**PROPOSED 16" SUCTION & 12" INJECTION PIPELINES**  
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**T12S-R11W, SECTIONS 12 & 13**  
**CAMERON PARISH, LOUISIANA**



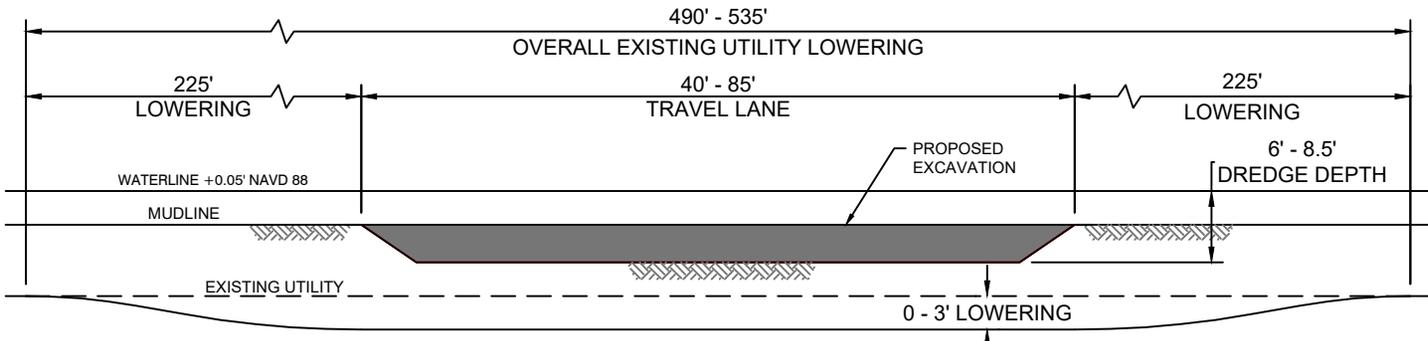
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| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
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+1.70 MHHW  
+0.05 MLLW  
NAVD88



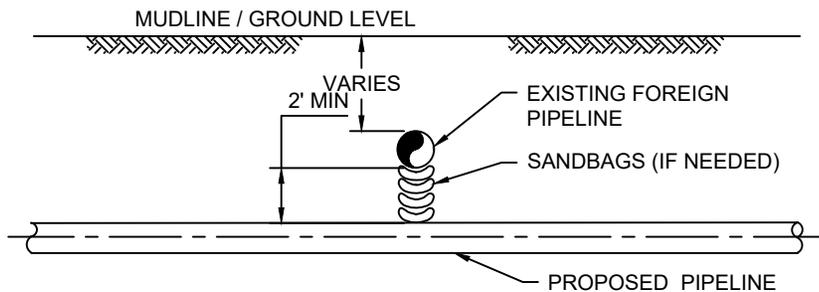
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|--|---|---------------------------------------|--|
|  <b>T. BAKER SMITH</b><br>A CENTURY OF SOLUTIONS<br>107 Global Circle, Lafayette, LA 70503<br>(337)735-2800 - tbsmith.com | DRAWN BY: JPD<br>DATE: 06/28/2021   | APPROVED BY: ADM<br>JOB NO: 2021.0228 | <b>PRELIMINARY</b><br><b>TYPICALS</b><br><b>HACKBERRY CARBON SEQUESTRATION, LLC</b><br>HACKBERRY CARBON SEQUESTRATION PROJECT<br>PROPOSED 16" SUCTION & 12" INJECTION PIPELINES<br>LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20<br>T12S-R11W, SECTIONS 12 & 13<br>CAMERON PARISH, LOUISIANA |
|  | DRAWING NAME: 21.0228_S47-57_REV4.DWG   |                                       |  |
|  | SHEET NO: <b>55</b> OF <b>59</b><br>PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |                                       |  |
| REV. NO: 4<br>REV. DATE: 12/16/2021<br>REV. BY: RBT  | REVISION DESCRIPTION:<br>REVISED PER OCM  |                                       |  |

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+1.70 MHHW  
+0.05 MLLW  
NAVD88

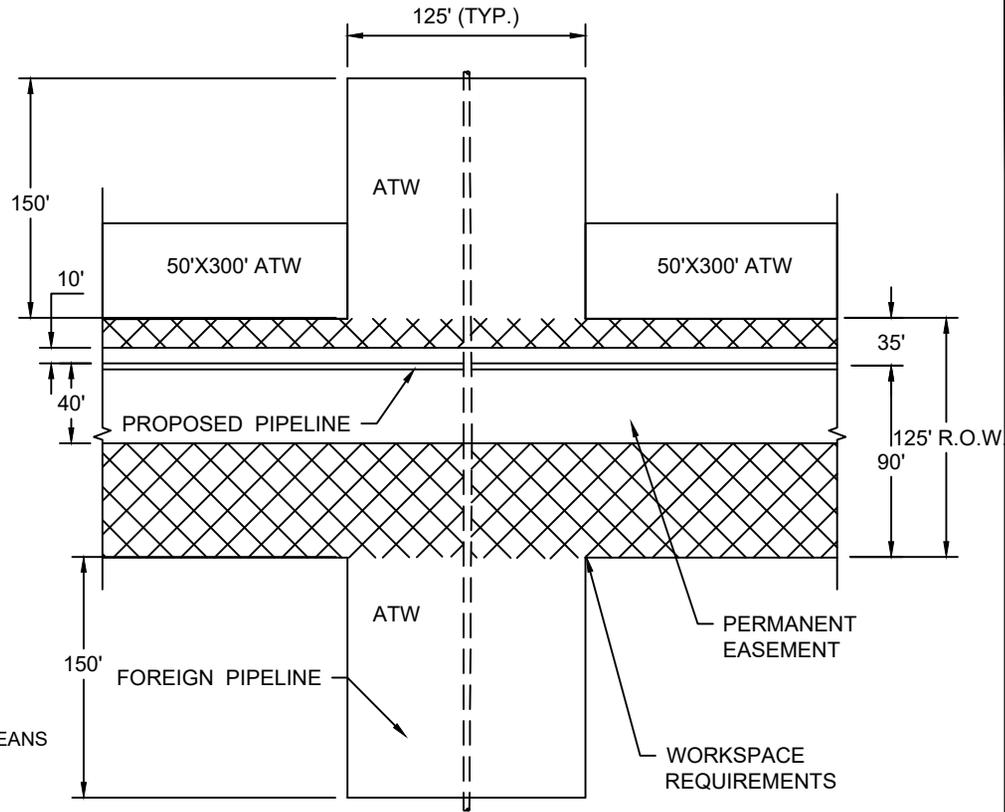


**TYPICAL FOREIGN PIPELINE CROSSING DETAIL**

SCALE: N.T.S.

**NOTES:**

1. FOREIGN PIPELINE LOCATIONS AND DEPTHS TO BE DETERMINED BY ELECTRONIC MEANS IN ADVANCE OF PIPELINE CONSTRUCTION AND CONFIRMED BY OWNER APPROVED EXCAVATION METHOD.
2. OWNER OF FOREIGN PIPELINES SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION OF CROSSING.
3. C.P. TEST STATION TO BE INSTALLED WHERE PRACTICAL AT THE NEAREST FENCE, HEDGE ROW OR FIELD EDGE, AND READILY ACCESSIBLE.
4. PROPOSED PIPELINE MAY ONLY CROSS ABOVE THE FOREIGN PIPELINES WHERE REQUESTED BY OR APPROVED BY FOREIGN PIPELINE OWNER IN WRITING.
5. NO VERTICAL OR HORIZONTAL BENDS WILL BE USED WITHIN FOREIGN PIPELINE R.O.W.
6. PRIOR TO EXCAVATION, STATES "ONE CALL" SYSTEM WILL BE UTILIZED.
7. PIPELINE SHALL BE INSTALLED IN COMPLIANCE WITH 49 CFR, PART 192 - TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE.



**TYPICAL FOREIGN PIPELINE CROSSING PLAN**

SCALE: N.T.S.

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|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |

SHEET NO: 56 OF 59

PROJECTION: LOUISIANA SOUTH ZONE  
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
GRID UNITS: US SURVEY FEET

REVISION DESCRIPTION:  
REVISED PER OCM

**PRELIMINARY**

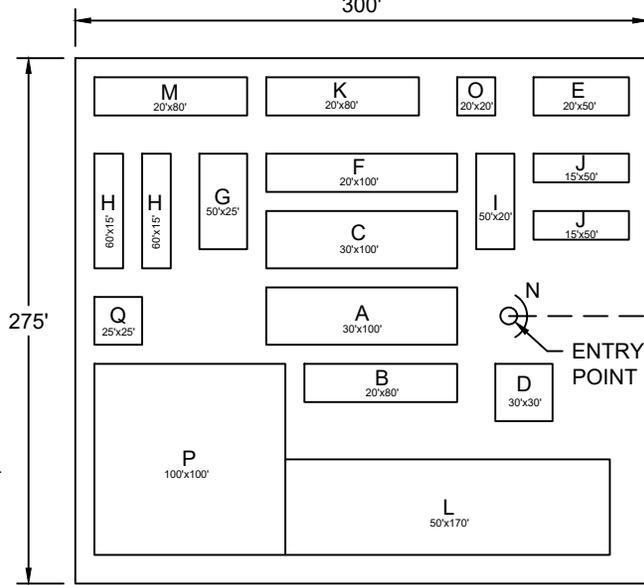
**TYPICALS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
HACKBERRY CARBON SEQUESTRATION PROJECT  
PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
T12S-R11W, SECTIONS 12 & 13  
CAMERON PARISH, LOUISIANA

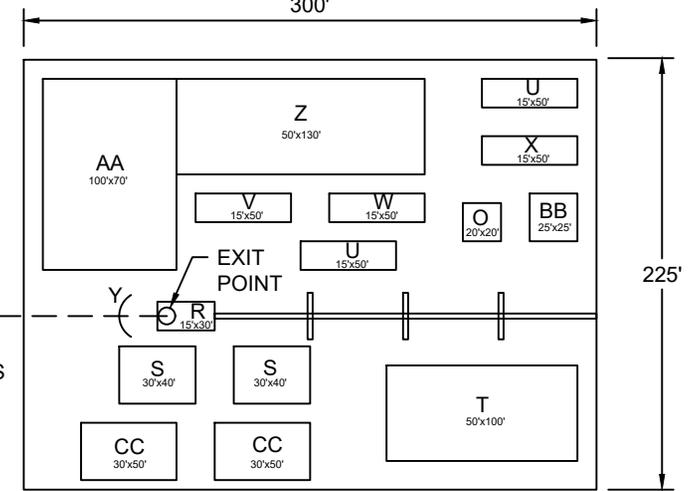
|            |                       |              |
|------------|-----------------------|--------------|
| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
|------------|-----------------------|--------------|

+1.70 MHHW  
+0.05 MLLW  
NAVD88

HDD ENTRY SITE - TYPICAL LAYOUT



HDD EXIT SITE - TYPICAL LAYOUT

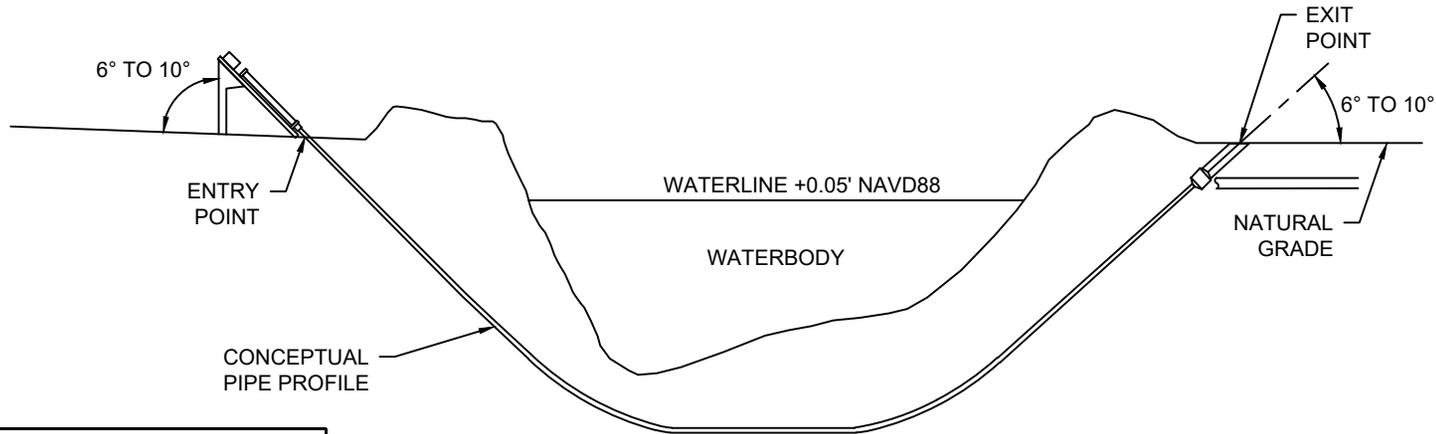


WATERBODY

PROPOSE GAS PIPELINE

PLAN VIEW  
SCALE: N.T.S.

- A- DRILL RIG
- B- DRILLERS CONSOLE GEN.
- C- DRILL PIPE
- D-CRANE
- E- PARTS VAN
- F- MUD CLEANING UNIT
- G- MUD MIXING TANK
- H- MUD PUMPS
- I- MUD PIT
- J- FRAC TANK
- K- DRILLING MUD (PALLETS)
- L- PARKING
- M- OFFICE TRAILER
- N- CONTAINMENT BERM
- O- FUEL STORAGE
- P- TRUCK TURNAROUND
- Q- SANITARY AREA
- R- EXIT PIT
- S- LIFT EQUIPMENT
- T- WELDING AREA
- U- MUD PIT
- V- MUD CLEANING
- W- GENERATOR
- X- FRAC TANKS
- Y- CONTAINMENT BERM
- Z- PARKING
- AA- TRUCK TURNAROUND
- BB- SANITARY AREA
- CC- OFFICE TRAILER



HDD PROFILE  
SCALE: N.T.S.

NOTES:

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2. FOR PERMITTING ONLY - THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE OR SALES.

|                                       |                   |
|---------------------------------------|-------------------|
| DRAWN BY: JPD                         | APPROVED BY: ADM  |
| DATE: 06/28/2021                      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG |                   |

**PRELIMINARY**

TYPICALS

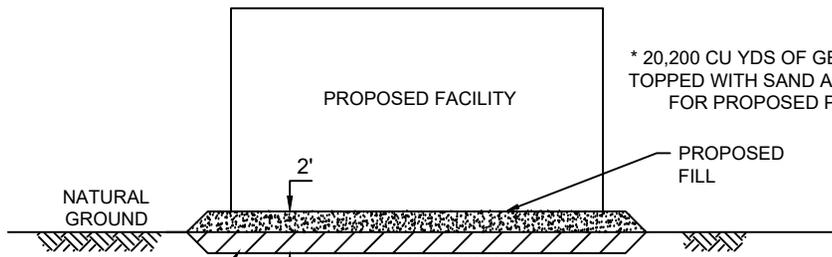
**HACKBERRY CARBON SEQUESTRATION, LLC**  
 HACKBERRY CARBON SEQUESTRATION PROJECT  
 PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
 LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
 T12S-R11W, SECTIONS 12 & 13  
 CAMERON PARISH, LOUISIANA



|   |       |
|---|-------|
| SHEET NO: 57  | OF 59 |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET |       |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |       |

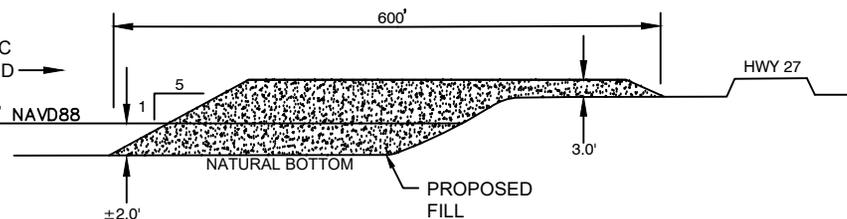
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|------------|-----------------------|--------------|
| REV. NO: 4 | REV. DATE: 12/16/2021 | REV. BY: RBT |
|------------|-----------------------|--------------|

12/16/2021 - P:\Y-2021\12021.0228\DWG\COE\REV4\21.0228\_S47-57\_REV4.DWG



**CROSS-SECTION I-I':  
PROPOSED FACILITY**  
SCALE: N.T.S.

\* 20,200 CU YDS OF GEOTECHNICAL FABRIC  
TOPPED WITH SAND AND ROCK REQUIRED  
FOR PROPOSED PUSH RACK PAD.  
WATERLINE +0.05' NAVD88

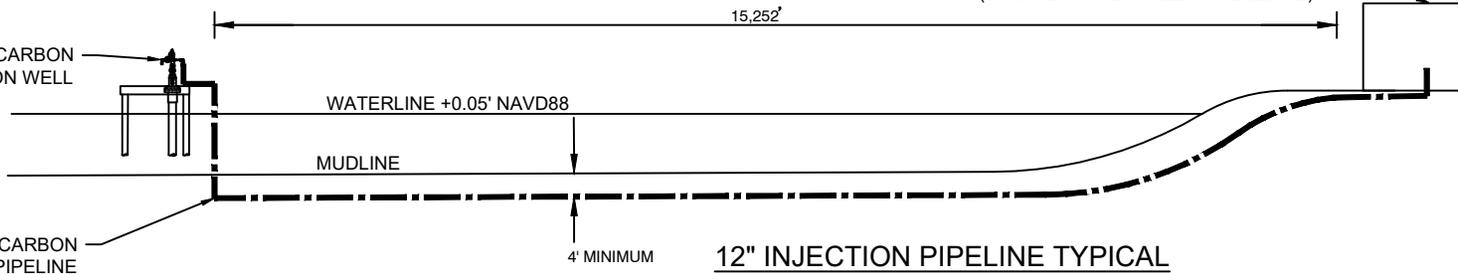


**CROSS-SECTION J-J':  
PROPOSED PUSH RACK FILL**  
SCALE: N.T.S.

\* 32,267 CU YDS OF SELECT FILL AND / OR ROCK  
MATERIAL REQUIRED FOR PROPOSED FACILITY PAD.

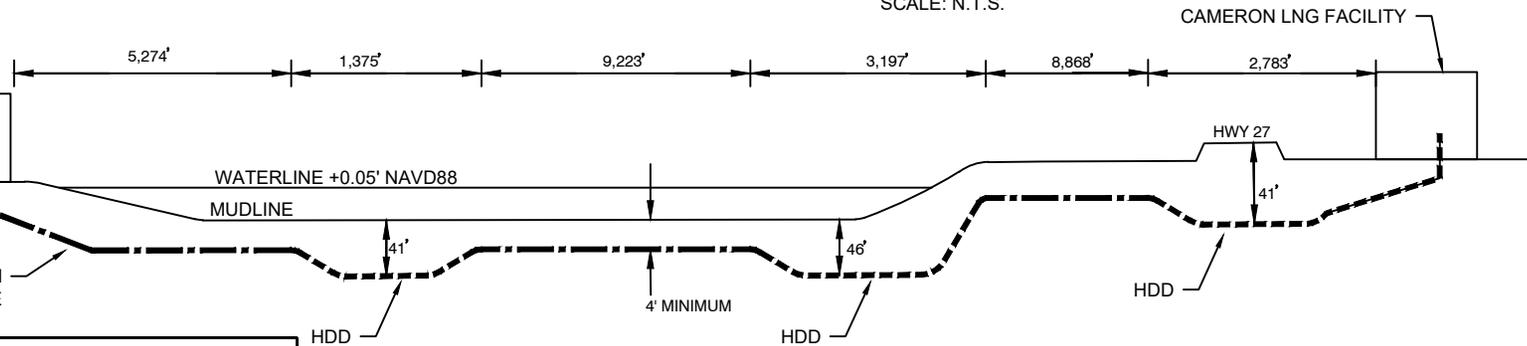
+1.70 MHHW  
+0.05 MLLW  
NAVD88

PROPOSED CARBON  
SEQUESTRATION WELL



**12" INJECTION PIPELINE TYPICAL  
PROFILE**  
SCALE: N.T.S.

PROPOSED FACILITY  
PROPOSED 16" CARBON  
SEQUESTRATION SUCTION PIPELINE



**16" SUCTION PIPELINE TYPICAL PROFILE**  
SCALE: N.T.S.

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DRAWN BY: JPD APPROVED BY: ADM  
DATE: 06/28/2021 JOB NO: 2021.0228  
DRAWING NAME: 21.0228\_S47-57\_REV4.DWG

**PRELIMINARY TYPICALS & PIPELINE PROFILES**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
HACKBERRY CARBON SEQUESTRATION PROJECT  
PROPOSED 16" SUCTION & 12" INJECTION PIPELINES  
LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20  
T12S-R11W, SECTIONS 12 & 13  
CAMERON PARISH, LOUISIANA



SHEET NO: **58** OF **59**  
PROJECTION: LOUISIANA SOUTH ZONE  
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
GRID UNITS: US SURVEY FEET

REV. NO: 4 REV. DATE: 12/16/2021 REV. BY: RBT

REVISION DESCRIPTION:  
REVISED PER OCM

**COASTAL NOTES:**

ALL STRUCTURES, FACILITIES, WELLS 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 FOR SUCH ACTIVITIES.

AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION AND OFFICE OF CONSERVATION, PIPELINE SAFETY DIVISION, POST OFFICE BOX 44487, BATON ROUGE, LA 70804-4487.

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.

THE PERMITEE SHALL ALSO CONTACT OTHER GOVERNMENTAL ENTITIES THAT MAY HAVE OPTED OUT OF THE ONE CALL PROGRAM. THESE GOVERNMENTAL ENTITIES MAY HAVE OPERATIONS LOCATED IN THE AREA OF THIS PROJECT.

ALL STRUCTURES WILL BE MARKED AND LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.

**CALCULATIONS:**

TOTAL HYDRAULIC DREDGING = 211,035 CU YDS

TOTAL DREDGING BY BUCKET EXCAVATION = 57,614 CU YDS

TOTAL EXCAVATION FOR PIPELINE INSTALLATION = 196,836 CU YDS

**Acres Affected by the Carbon Sequestration Project**

|                                  | Impact Type (Acres) |              |                    | Total Impacted Acreage |
|----------------------------------|---------------------|--------------|--------------------|------------------------|
|                                  | Temporary           | Permanent    | PFO/PSS Conversion |                        |
| Brackish Marsh (E2EM)            | 15.76               | 0.17         | 0.00               | 15.93                  |
| Scrub/Shrub Wetlands (PSS)       | 0.03                | 0.00         | 0.00               | 0.03                   |
| Bottomland Hardwood Forest (PFO) | 0.52                | 0.00         | 0.46               | 0.98                   |
| <b>Wetland Subtotal</b>          | <b>16.31</b>        | <b>0.17</b>  | <b>0.46</b>        | <b>16.94</b>           |
| Open Water                       | 290.14              | 0.00         | 0.00               | 290.14                 |
| Upland - below 5 ft contour      | 5.46                | 1.77         | 0.00               | 7.23                   |
| Upland - above 5 ft contour      | 7.43                | 8.23         | 0.00               | 15.65                  |
| <b>Total</b>                     | <b>319.34</b>       | <b>10.17</b> | <b>0.46</b>        | <b>329.98</b>          |

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12/17/2021 - P:\Y-2021\2021.0228\DWG\COE\REV4\21.0228\_S47-57\_REV4.DWG

|   |                       |                   |
|---|-----------------------|-------------------|
|  <b>T. BAKER SMITH</b><br><small>A CENTURY OF SOLUTIONS</small><br><small>107 Global Circle, Lafayette, LA 70503</small><br><small>(337)735-2800 - tbsmith.com</small> | DRAWN BY: JPD         | APPROVED BY: ADM  |
|   | DATE: 06/28/2021      | JOB NO: 2021.0228 |
| DRAWING NAME: 21.0228_S47-57_REV4.DWG   |                       |                   |
| SHEET NO: 59 OF 59  |                       |                   |
| PROJECTION: LOUISIANA SOUTH ZONE<br>GEO. DATUM: NAD83   VERT. DATUM: NAVD88<br>GRID UNITS: US SURVEY FEET   |                       |                   |
| REV. NO: 4  | REV. DATE: 12/16/2021 | REV. BY: RBT      |
| REVISION DESCRIPTION:<br>REVISED PER OCM  |                       |                   |

**PRELIMINARY NOTES AND CALCULATIONS**

**HACKBERRY CARBON SEQUESTRATION, LLC**  
**HACKBERRY CARBON SEQUESTRATION PROJECT**  
**PROPOSED 16" SUCTION & 12" INJECTION PIPELINES**  
**LOCATED IN T12S-R10W, SECTIONS 1-3, 7-11, 14-18 & 19-20**  
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