



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

# JOINT PUBLIC NOTICE

April 4, 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  
Attn: Water Quality Certifications  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

Project Manager:  
James W. Little, Jr.  
(504) 862-1879  
[james.little@usace.army.mil](mailto:james.little@usace.army.mil)  
Application #: MVN-2008-03027-WII

Project Manager:  
Elizabeth Hill  
(225) 219-3225  
WQC Application Number:  
WQC-210255-01

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

The application has also been mailed to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

## **CONSTRUCT, OPERATE AND MAINTAIN A NEW NATURAL GAS SALT DOME STORAGE FACILITY AND ASSOCIATED STRUCTURES IN CAMERON AND CALCASIEU PARISHES**

**NAME OF APPLICANT:** LA Storage, LLC, c/o T. Baker Smith, LLC, Attn: Mr. Brady Trahan, 107 Global Circle, Lafayette, Louisiana 70503.

**LOCATION OF WORK:** In Cameron and Calcasieu Parish, Brine Pipeline POB 30.002958, -93.41655; POE 30.059283, -93.3488; located off of Black Lake Road, west of Hackberry, Louisiana, as shown on the attached drawings. (Hydrologic Unit Code 08080206, Lower Calcasieu Watershed)

**CHARACTER OF WORK:** Construct, operate and maintain a new natural gas salt dome storage facility. The Project will involve the conversion of three existing salt dome caverns to natural gas storage service and the development of one new salt dome cavern for additional natural gas storage service. In addition, the applicant will construct and operate on-site compression facilities (Pelican Compressor Station), approximately 5.2 miles of 42-inch-diameter bi-directional natural gas pipeline, approximately 11.4 miles of 42-inch-diameter bi-directional natural gas pipeline, and

approximately 6.6 miles of 16-inch-diameter brine disposal pipeline. Approx. 251,725 cubic yards of material will be displaced by dredging operations and 316,572 cubic yards of fill material will be brought on site. Approximately 70.24 acres of wet pasture, 0.08 of an acre of fresh marsh, 53.22 acres of intermediate marsh, 3.68 acres of brackish marsh, 9.97 acres of scrub-shrub wetlands, 5.80 acres of bottomland hardwoods, and 166.98 acres of jurisdictional waters would be impacted by proposed activities. Should a DA permit be warranted, the applicant proposes to purchase compensatory mitigation credits at CEMVN approved mitigation banks in the area.

The comment period on the requested Department of the Army Permit and the Louisiana Department of Environmental Quality WQC 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, JAMES W. LITTLE, JR.** 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 Branch 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. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

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

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and

fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The 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 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, the proposed project was evaluated under the determination key on 3 December 2020 and it has been determined that the proposed project is "Not likely to adversely Affect" the West Indian Manatee (*Trichechus manatus*) and the Eastern Black Rail (*Laterallus jamaicensis ssp.*), the project will have "No Effect" on the Red Cockaded Woodpecker (*Picoides borealis*), Green Sea Turtle (*Chelonia mydas*), Hawksbill Sea Turtle (*Eretmochelys imbricata*), Kemp's Ridley Sea Turtle (*Lepidochelys kempii*), Leatherback Sea Turtle (*Dermochelys coriacea*), and Loggerhead Sea Turtle (*Caretta caretta*). The Standard Manatee Conditions for in-water activities shall be included as permit conditions if a Department of the Army permit is issued.

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 **223.96 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.*

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.

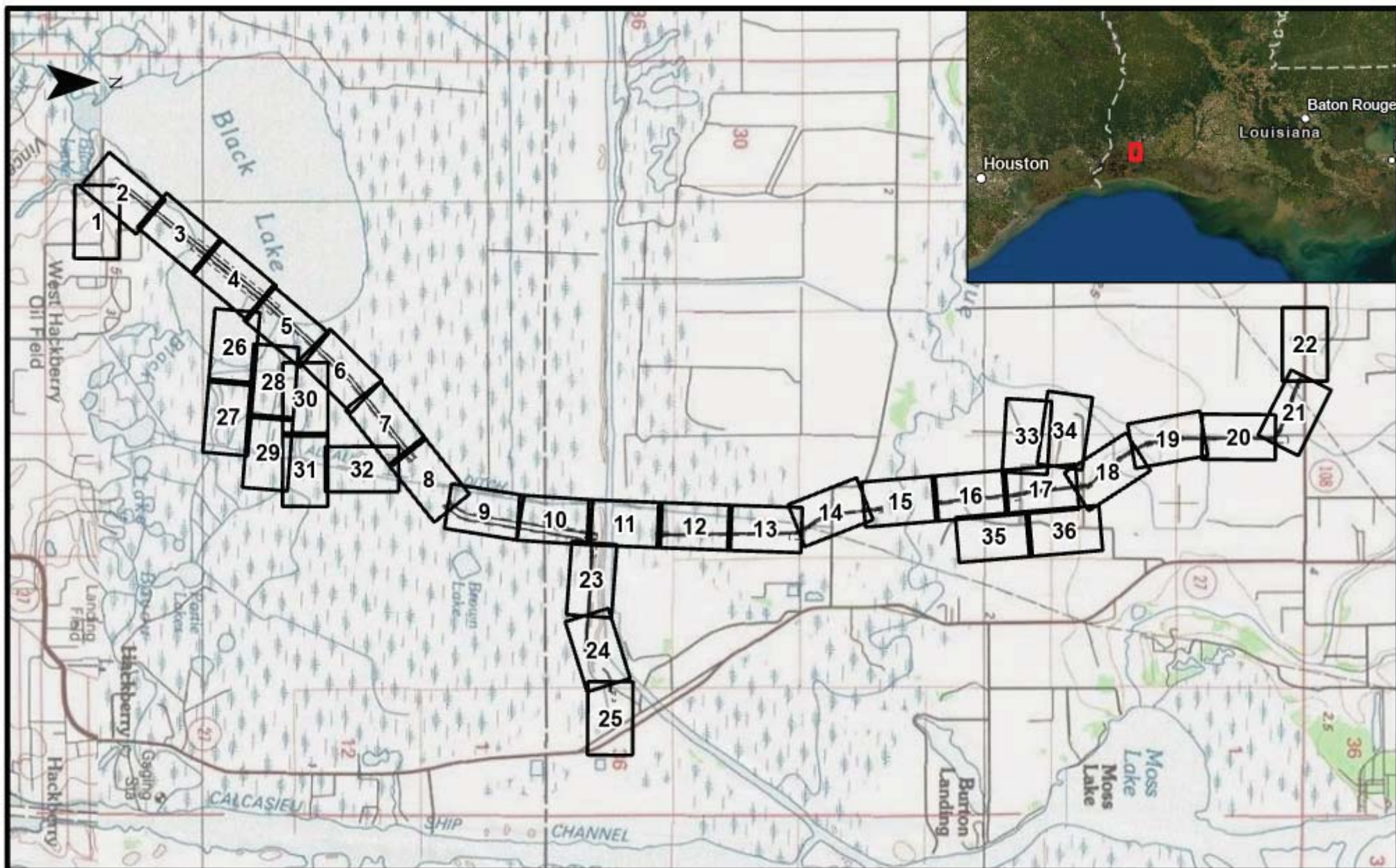
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. *The Department of the Army permit will not be issued unless the applicant receives approval or a waiver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

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





SHEET NO.: 1 of 62

DRAWN BY: WJ

APPROVED BY: BT

Spatial Reference  
Name: UTM83-15F  
GCS: GCS North American 1983  
Datum: North American 1983  
Projection: Transverse Mercator

DATE: 3/8/2021

JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

REV. NO:

REV. DATE:

REV. BY:

## LA Storage, LLC

Hackberry Storage Project  
Wetlands Permit Vicinity  
U.S. Topo  
Cameron & Calcasieu Parish, Louisiana

5,000 2,500 0 5,000

US Feet

REV. DESCRIPTION:







NOTES:  
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SHEET NO.: 2 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

DATE: 4/23/2021

JOB NO.: 2020.0423

Projection: Transverse Mercator

DRAWING NAME: LAS\_Hackberry\_Storage

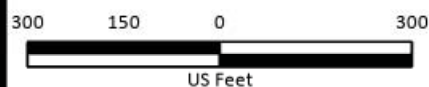
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Units: Foot US

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**LA Storage, LLC**

Hackberry Storage Project

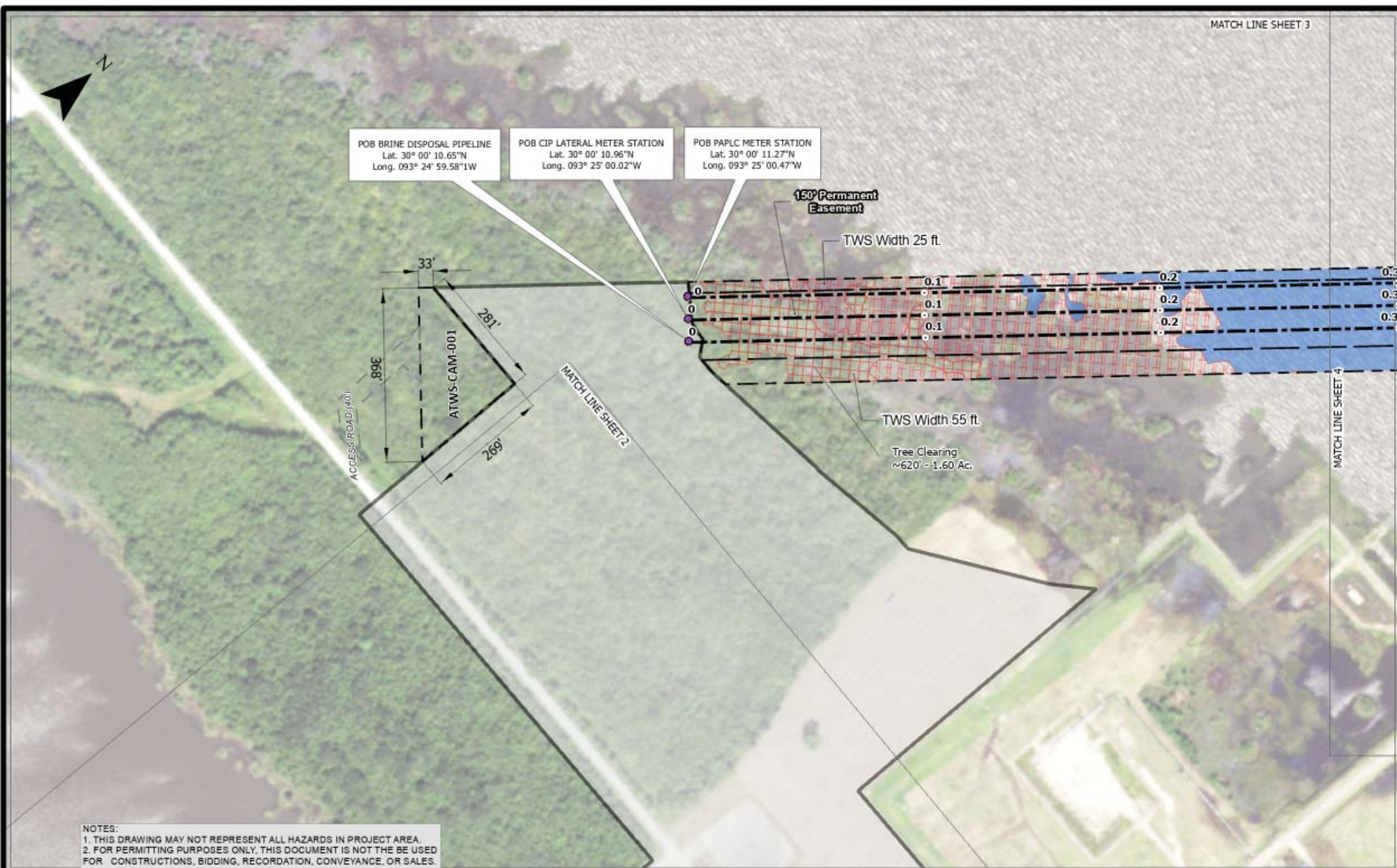
Wetlands Permit

Aerial

Cameron Parish, Louisiana







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JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

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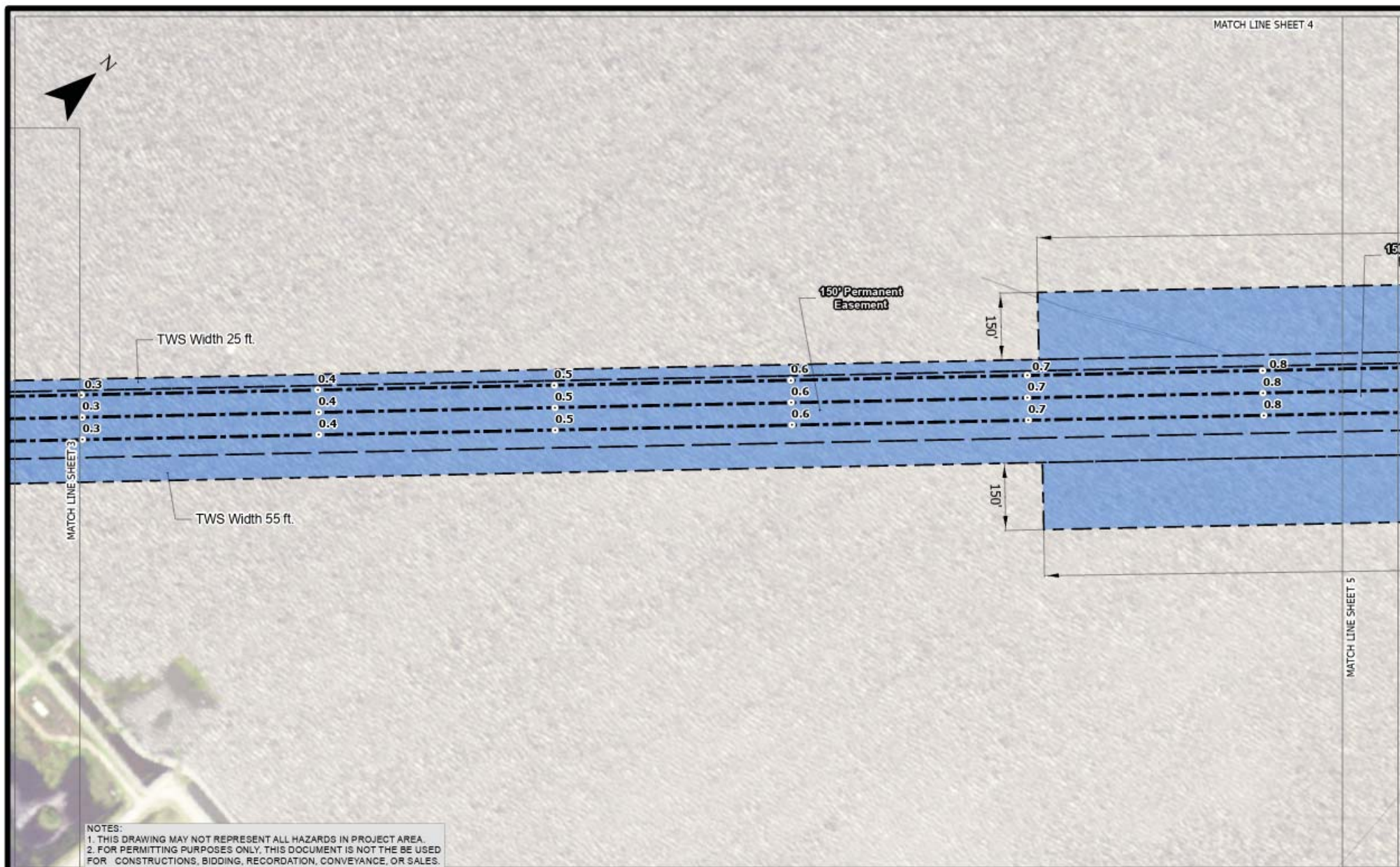
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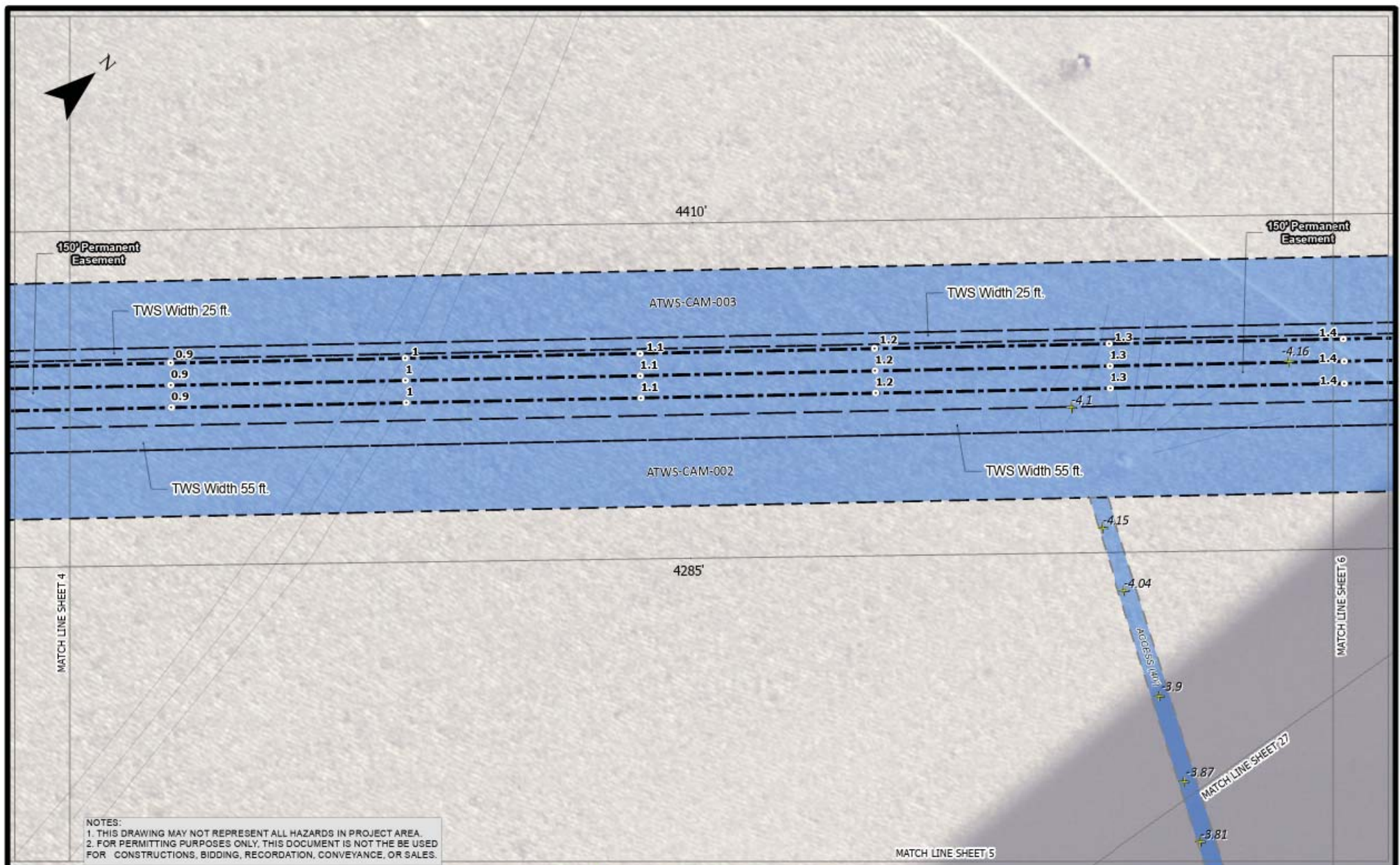
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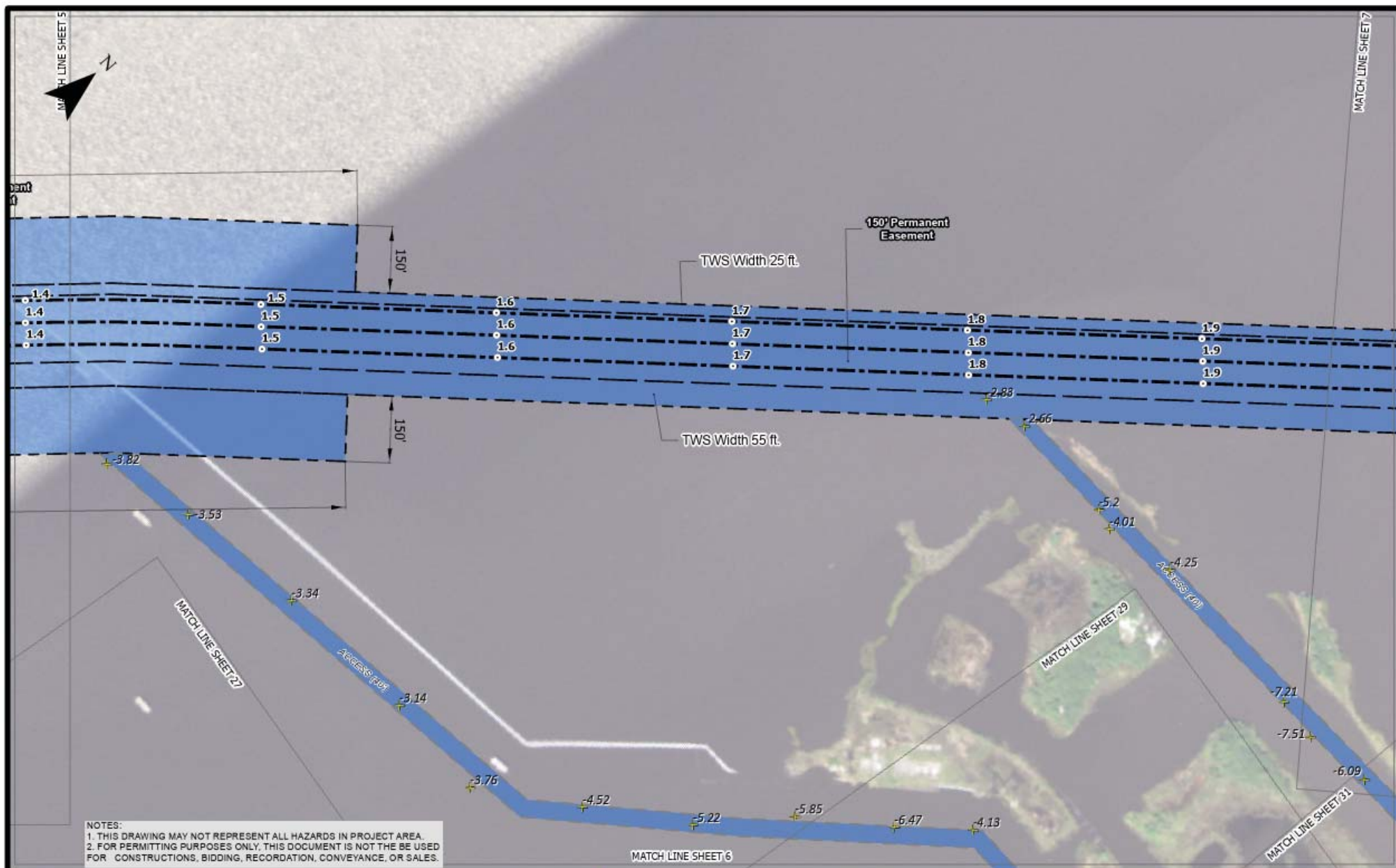
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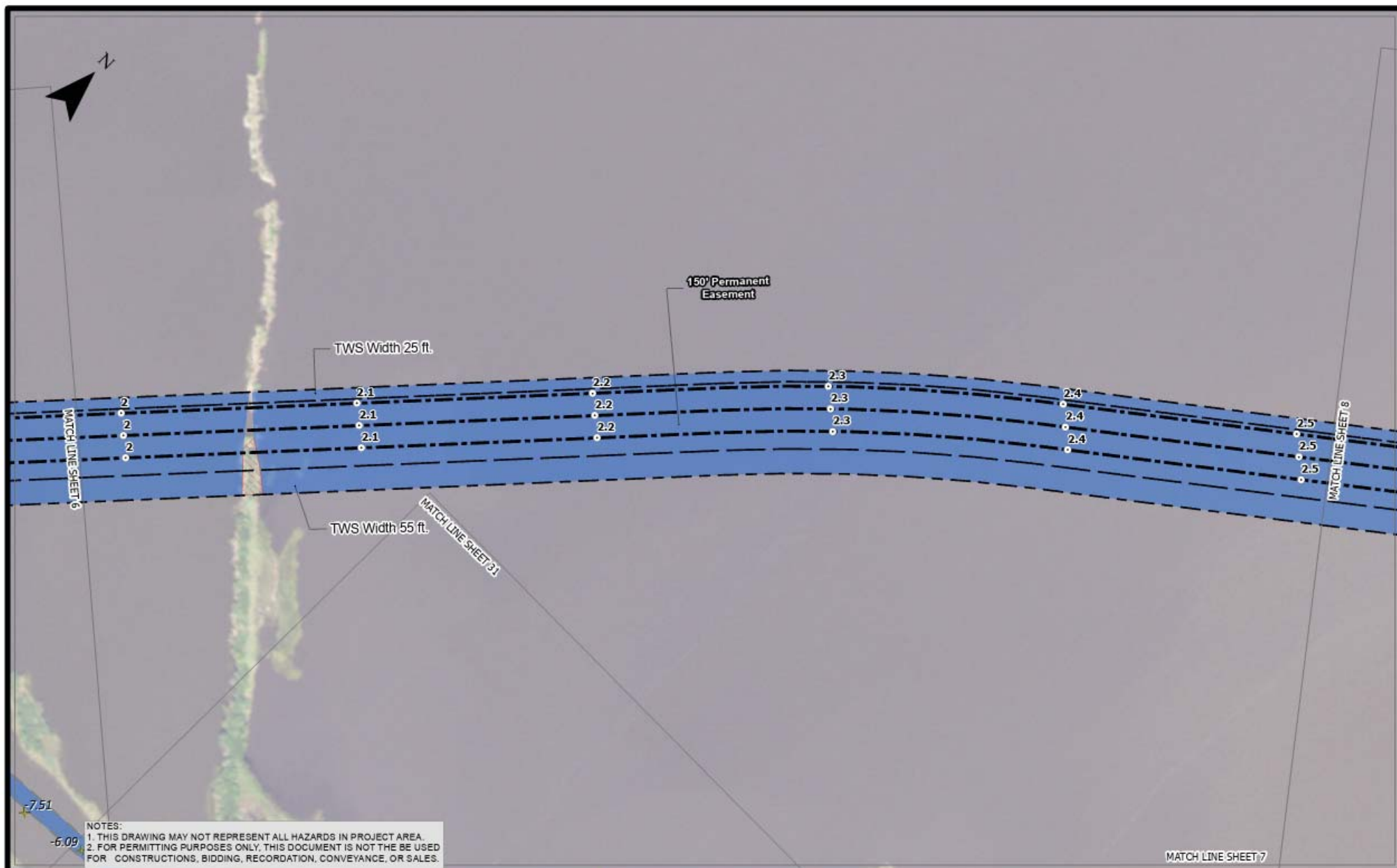
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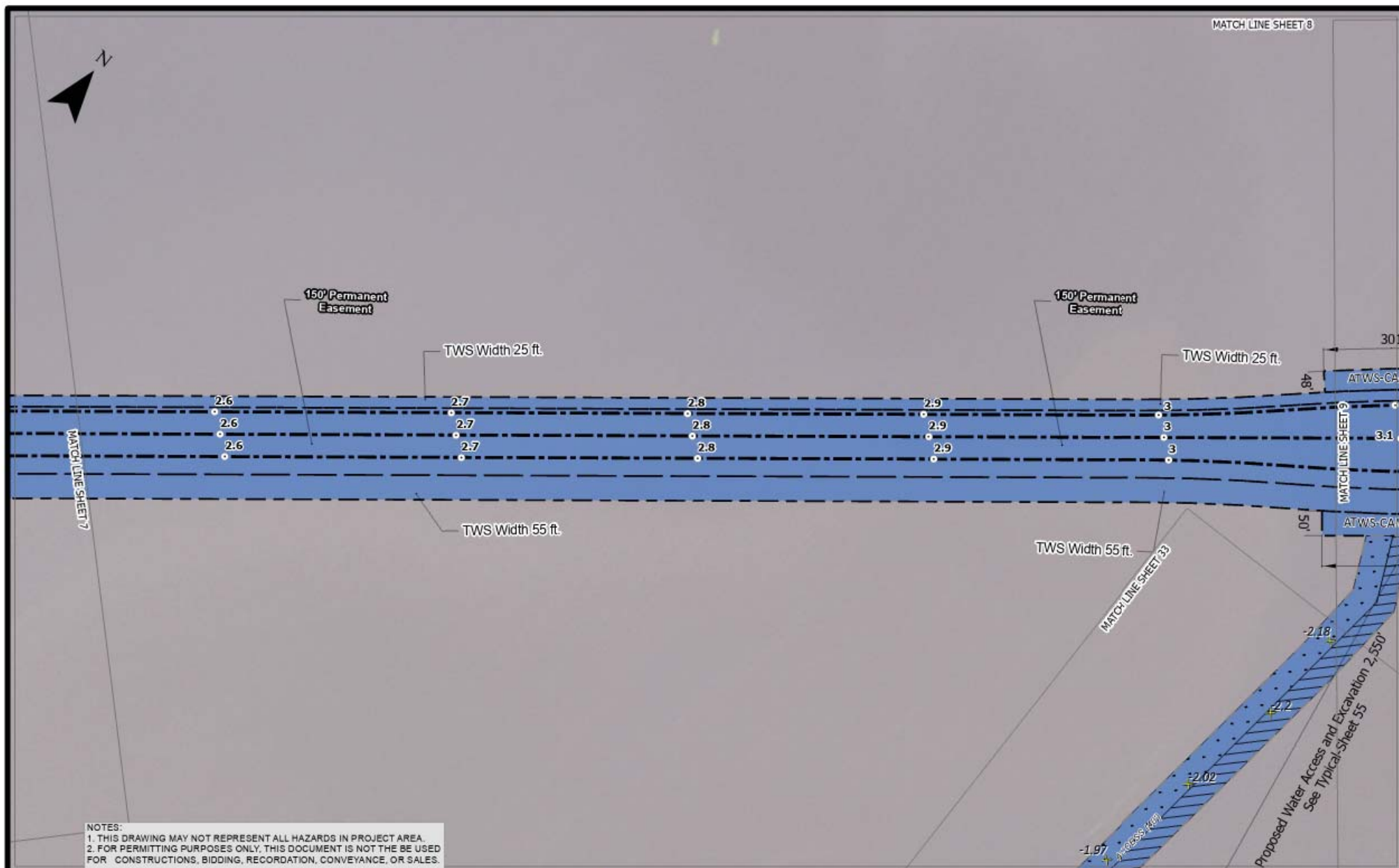
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COORDINATE SYSTEM: UTM83-15F

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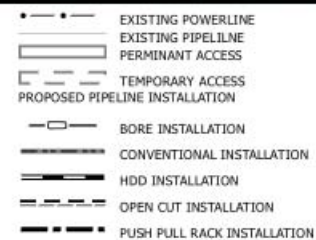
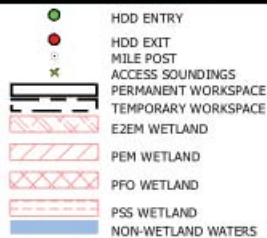
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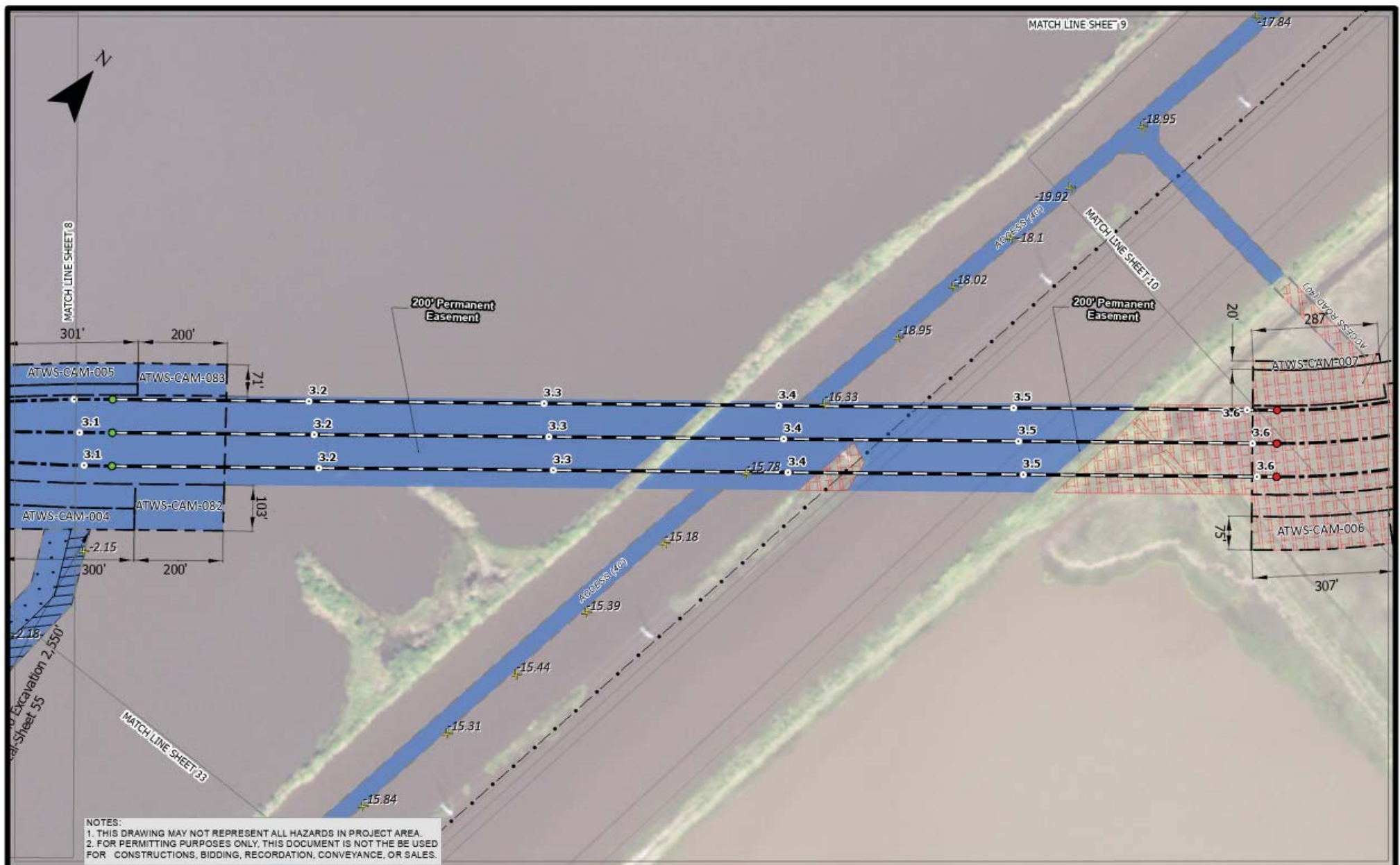
Wetlands Permit

Aerial

Cameron Parish, Louisiana







SHEET NO.: 9 of 62

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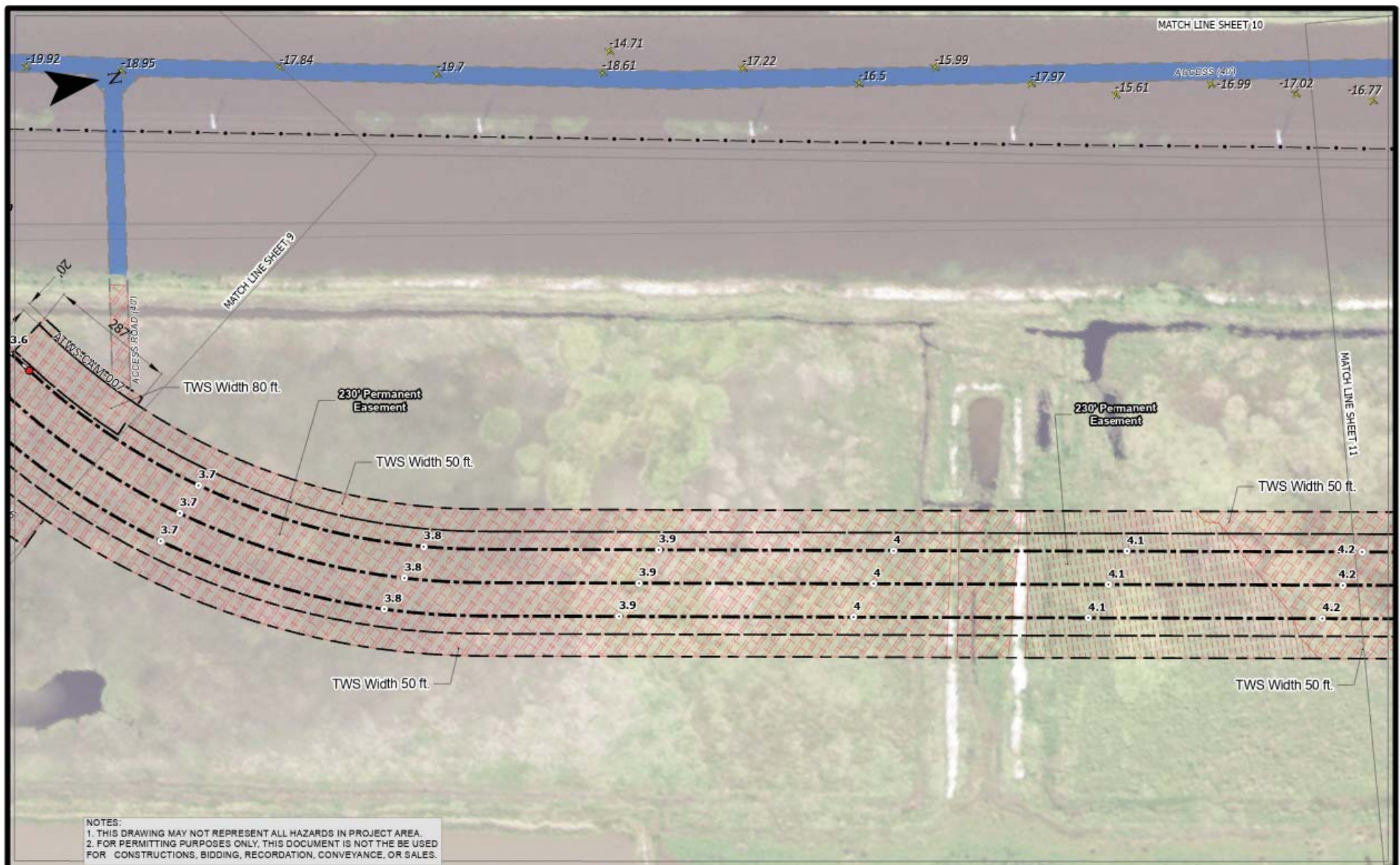
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Cameron Parish, Louisiana

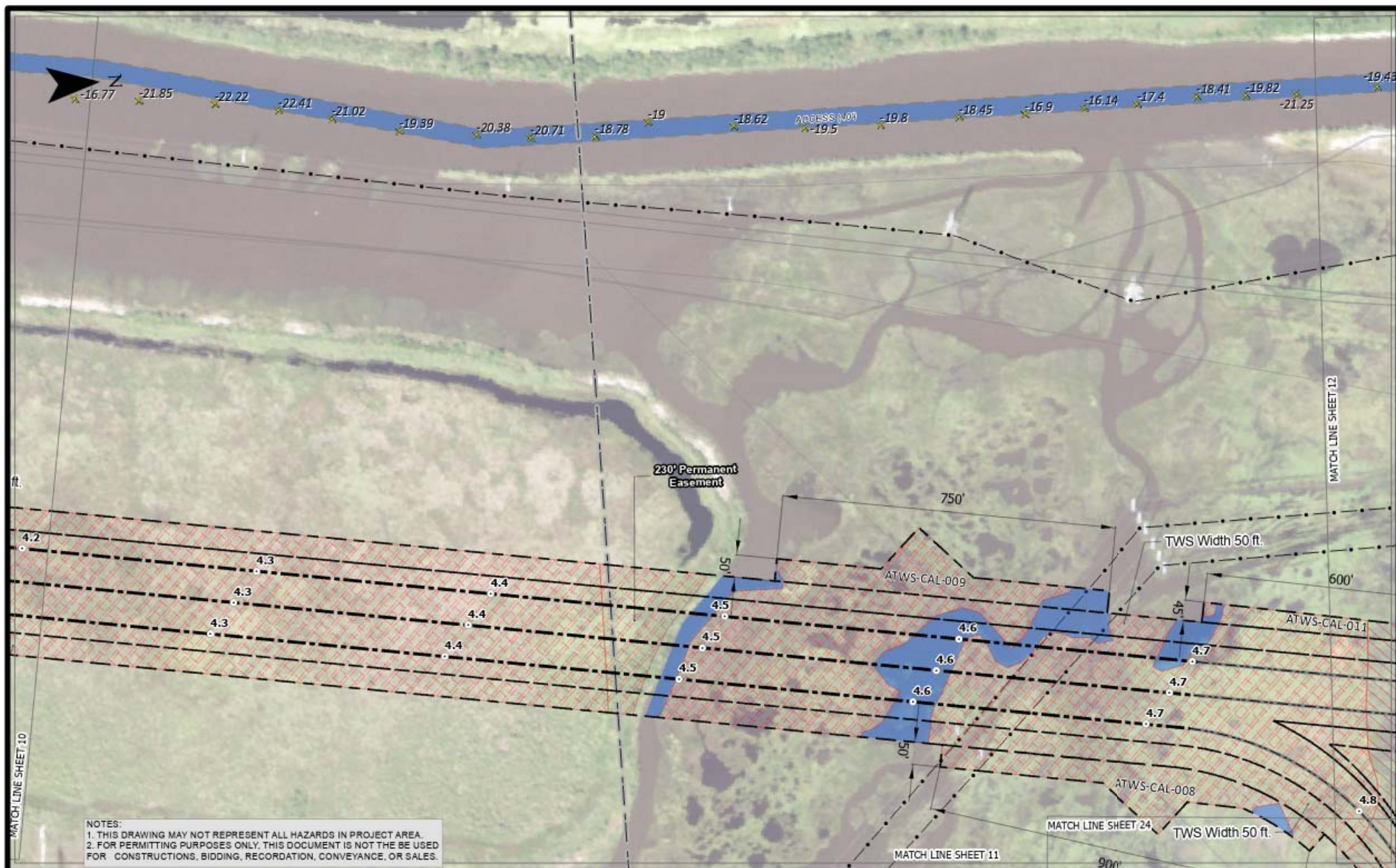







SHEET NO.: 10 of 62  COORDINATE SYSTEM: UTM83-15F Projection: Transverse Mercator Datum: North American 1983 Units: Foot US	DRAWN BY: WJ    APPROVED BY: BT  DATE: 4/23/2021    JOB NO.: 2020.0423  DRAWING NAME: LAS_Hackberry_Storage  REV. NO:  REV. DATE:  REV. BY:	<div> <div> <div>●</div> HDD ENTRY           <div>○</div> HDD EXIT           <div>⋈</div> MILE POST           <div>⋈</div> ACCESS SOUNDINGS           <div>▬</div> PERMANENT WORKSPACE           <div>▬</div> TEMPORARY WORKSPACE           <div>▬</div> E2EM WETLAND           <div>▬</div> PEM WETLAND           <div>▬</div> PFO WETLAND           <div>▬</div> PSS WETLAND           <div>▬</div> NON-WETLAND WATERS         </div> <div> <div>▬</div> EXISTING POWERLINE           <div>▬</div> EXISTING PIPELINE           <div>▬</div> PERMINANT ACCESS           <div>▬</div> TEMPORARY ACCESS           <div>▬</div> PROPOSED PIPELINE INSTALLATION           <div>▬</div> BORE INSTALLATION           <div>▬</div> CONVENTIONAL INSTALLATION           <div>▬</div> HDD INSTALLATION           <div>▬</div> OPEN CUT INSTALLATION           <div>▬</div> PUSH PULL RACK INSTALLATION         </div> </div>	<div> <div>LA Storage, LLC</div> <div>Hackberry Storage Project Wetlands Permit Aerial Cameron Parish, Louisiana</div> </div>
<div> <div>300 150 0 300</div> <div>US Feet</div> </div>			<div> <div>TBS</div> <div> <b>T. BAKER SMITH</b>            A CENTURY OF SOLUTIONS            412 South Van Ave., Houma, LA 70363            (848) 998-1090 - tbsmith.com         </div> </div>

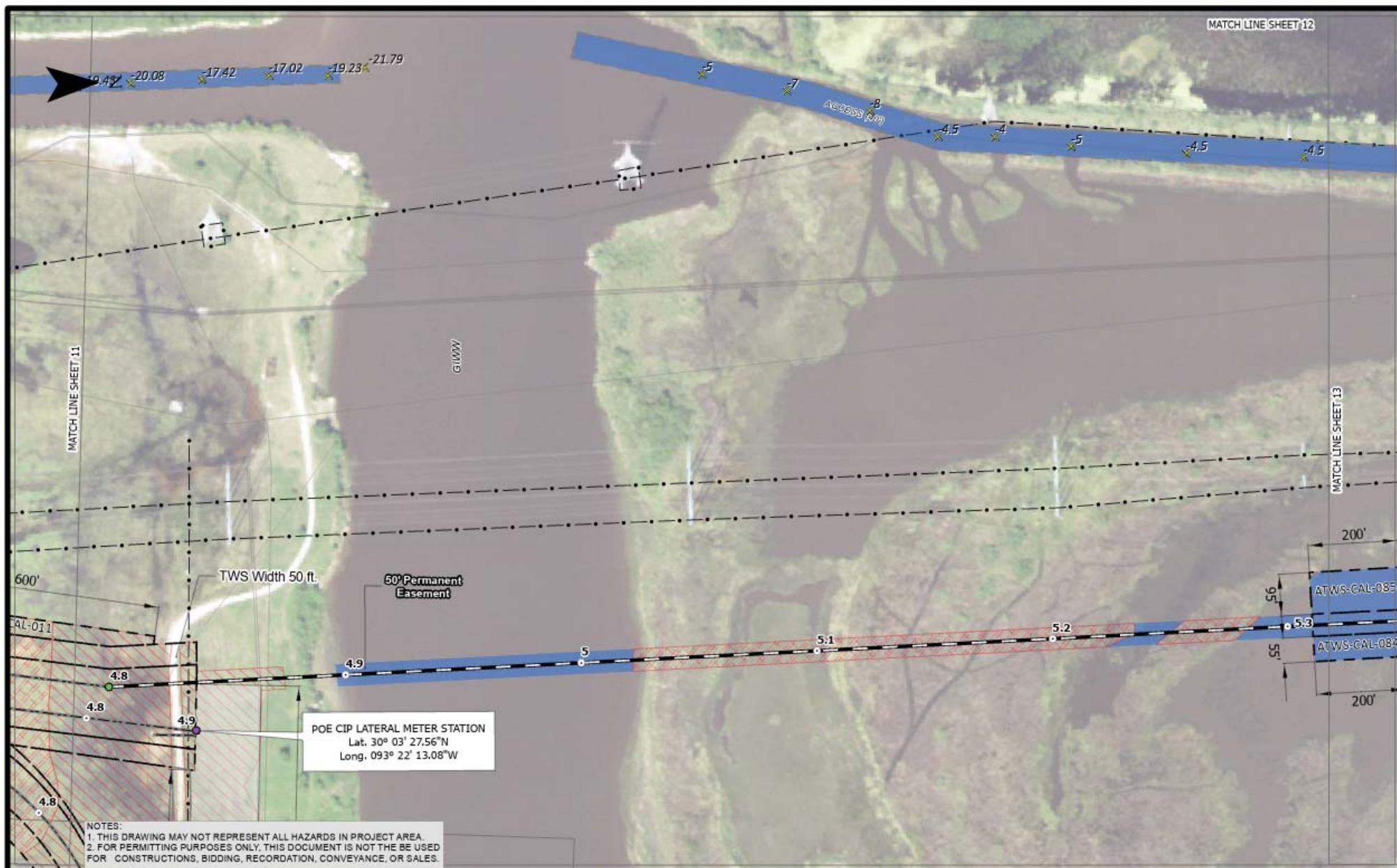




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<p>SHEET NO.: 11 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F          Projection: Transverse Mercator          Datum: North American 1983          Units: Foot US</p> <p>300 150 0 300          US Feet</p>	<p>DRAWN BY: WJ    APPROVED BY: BT</p> <p>DATE: 4/23/2021    JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<p> <span style="color: green;">●</span> HDD ENTRY  <span style="color: red;">●</span> HDD EXIT  <span style="color: black;">●</span> MILE POST  <span style="color: black;">x</span> ACCESS SOUNDINGS  <span style="border: 1px solid black; padding: 2px;"> </span> PERMANENT WORKSPACE  <span style="border: 1px solid black; padding: 2px;"> </span> TEMPORARY WORKSPACE  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> E2EM WETLAND  <span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); border: 1px solid black; padding: 2px;"> </span> PEM WETLAND  <span style="background: radial-gradient(circle, red 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; padding: 2px;"> </span> PFO WETLAND  <span style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, red 2px, red 4px); border: 1px solid black; padding: 2px;"> </span> PSS WETLAND  <span style="background-color: #add8e6; border: 1px solid black; padding: 2px;"> </span> NON-WETLAND WATERS         </p> <p> <span style="color: black;">---</span> EXISTING POWERLINE  <span style="color: black;">---</span> EXISTING PIPELINE  <span style="color: black;">---</span> PERMINANT ACCESS  <span style="color: black;">---</span> TEMPORARY ACCESS  <span style="color: black;">---</span> PROPOSED PIPELINE INSTALLATION  <span style="color: black;">---</span> BORE INSTALLATION  <span style="color: black;">---</span> CONVENTIONAL INSTALLATION  <span style="color: black;">---</span> HDD INSTALLATION  <span style="color: black;">---</span> OPEN CUT INSTALLATION  <span style="color: black;">---</span> PUSH PULL RACK INSTALLATION         </p>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project          Wetlands Permit          Aerial          Calcasieu - Cameron Parish, Louisiana</p> <p>  <b>T. BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave., Houma, LA 70363          (846) 968-1090 - tbsmith.com       </p>
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SHEET NO.: 12 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

Projection: Transverse Mercator

Datum: North American 1983

Units: Foot US

DATE: 4/23/2021

JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

REV. NO:

REV. DATE:

REV. BY:



- HDD ENTRY
- HDD EXIT
- MILE POST
- x ACCESS SOUNDINGS
- PERMANENT WORKSPACE
- TEMPORARY WORKSPACE
- E2EM WETLAND
- PEM WETLAND
- PFO WETLAND
- PSS WETLAND
- NON-WETLAND WATERS

- EXISTING POWERLINE
- EXISTING PIPELINE
- PERMINANT ACCESS
- TEMPORARY ACCESS
- PROPOSED PIPELINE INSTALLATION
- BORE INSTALLATION
- CONVENTIONAL INSTALLATION
- HDD INSTALLATION
- OPEN CUT INSTALLATION
- PUSH PULL RACK INSTALLATION

**LA Storage, LLC**

Hackberry Storage Project

Wetlands Permit

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Calcasieu Parish, Louisiana







SHEET NO.: 13 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

Projection: Transverse Mercator

Datum: North American 1983

Units: Foot US

DATE: 4/23/2021

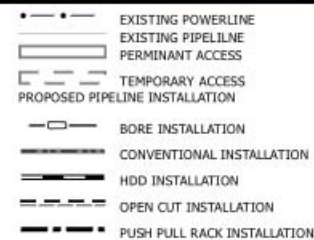
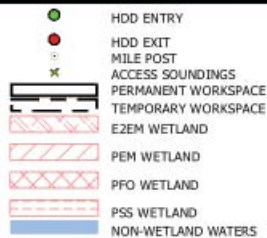
JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

REV. NO:

REV. DATE:

REV. BY:

**LA Storage, LLC**

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SHEET NO.: 14 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

DATE: 4/23/2021

JOB NO.: 2020.0423

Projection: Transverse Mercator

DRAWING NAME: LAS\_Hackberry\_Storage

Datum: North American 1983

REV. NO:

Units: Foot US

REV. DATE:

REV. BY:



- HDD ENTRY
- HDD EXIT
- MILE POST
- ACCESS SOUNDINGS
- PERMANENT WORKSPACE
- TEMPORARY WORKSPACE
- E2EM WETLAND
- PEM WETLAND
- PFO WETLAND
- PSS WETLAND
- NON-WETLAND WATERS

- EXISTING POWERLINE
- EXISTING PIPELINE
- PERMANENT ACCESS
- TEMPORARY ACCESS
- PROPOSED PIPELINE INSTALLATION
- BORE INSTALLATION
- CONVENTIONAL INSTALLATION
- HDD INSTALLATION
- OPEN CUT INSTALLATION
- PUSH PULL RACK INSTALLATION

**LA Storage, LLC**

Hackberry Storage Project

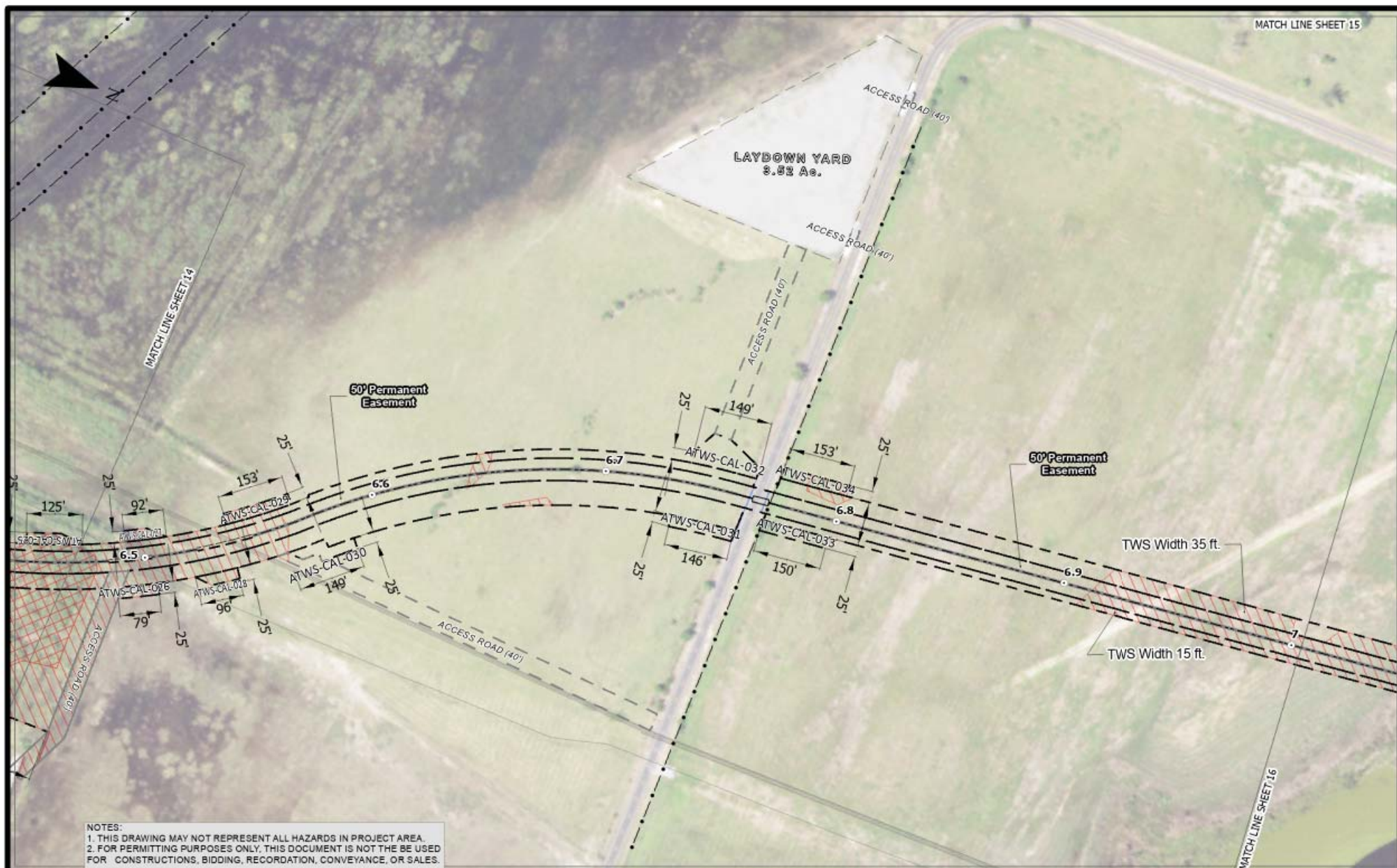
Wetlands Permit

Aerial

Calcasieu Parish, Louisiana







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DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

Projection: Transverse Mercator

Datum: North American 1983

Units: Foot US

DATE: 4/23/2021

JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

REV. NO:

REV. DATE:

REV. BY:



- HDD ENTRY
- HDD EXIT
- MILE POST
- ✱ ACCESS SOUNDINGS
- PERMANENT WORKSPACE
- TEMPORARY WORKSPACE
- E2EM WETLAND
- PEM WETLAND
- PFO WETLAND
- PSS WETLAND
- NON-WETLAND WATERS

- EXISTING POWERLINE
- EXISTING PIPELINE
- PERMANENT ACCESS
- TEMPORARY ACCESS
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- HDD INSTALLATION
- OPEN CUT INSTALLATION
- PUSH PULL RACK INSTALLATION

## LA Storage, LLC

Hackberry Storage Project

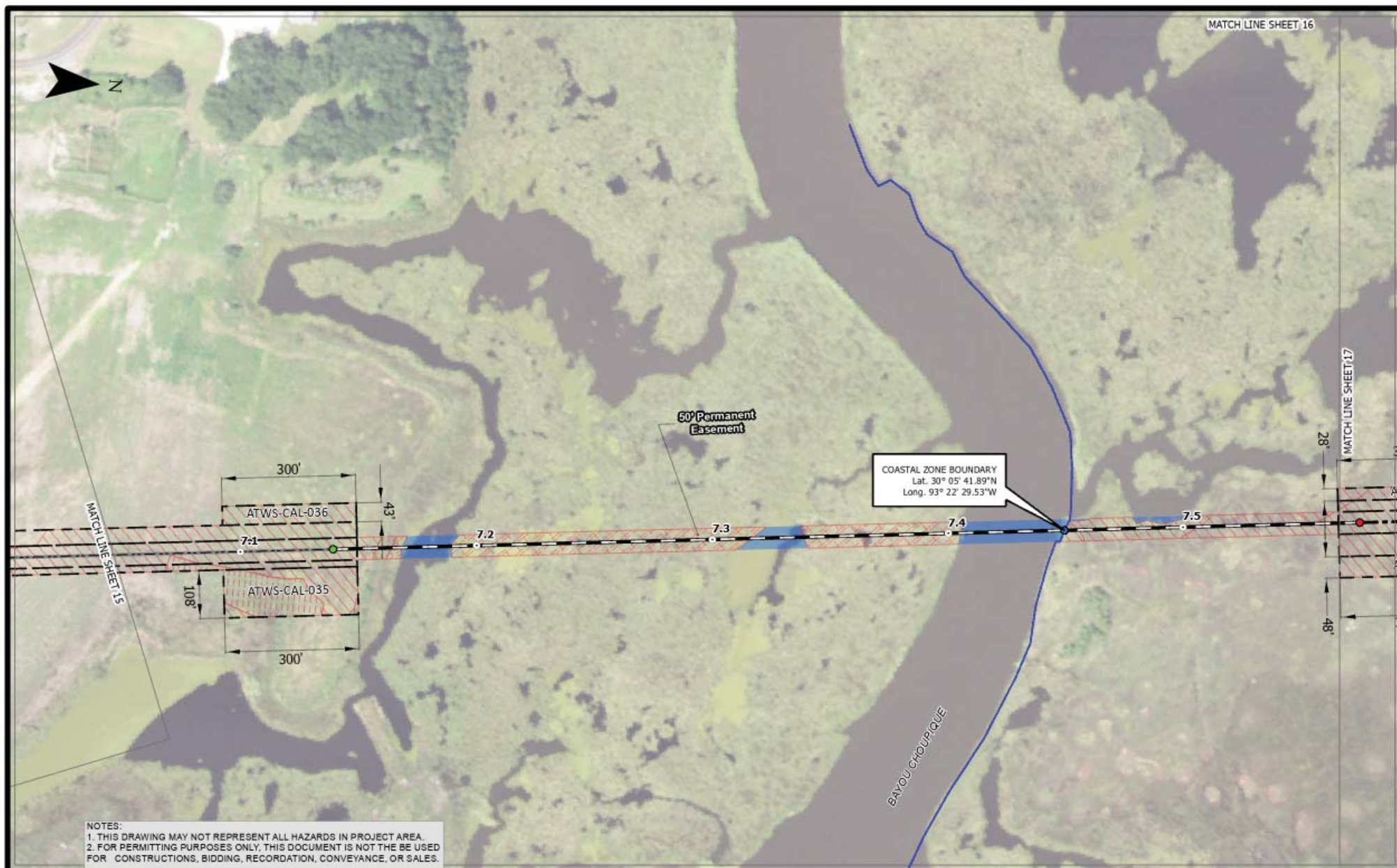
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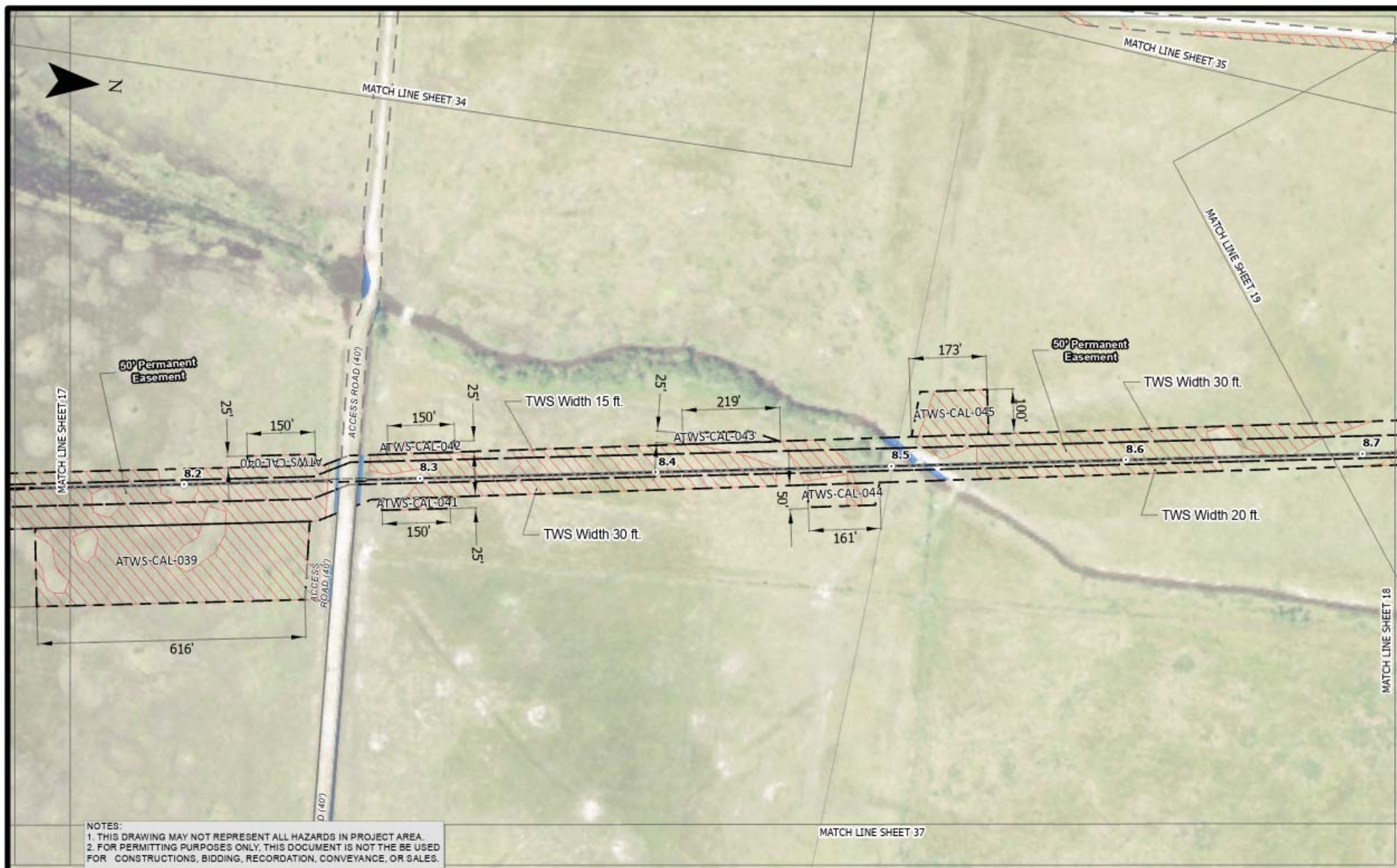
<p>SHEET NO.: 16 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F          Projection: Transverse Mercator          Datum: North American 1983          Units: Foot US</p> <p>300 150 0 300          US Feet</p>	<p>DRAWN BY: WJ    APPROVED BY: BT</p> <p>DATE: 4/23/2021    JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<p> <span style="color: green;">●</span> HDD ENTRY  <span style="color: red;">●</span> HDD EXIT  <span style="color: black;">○</span> MILE POST  <span style="color: black;">✱</span> ACCESS SOUNDINGS  <span style="border: 1px solid black; padding: 2px;"> </span> PERMANENT WORKSPACE  <span style="border: 1px solid black; padding: 2px;"> </span> TEMPORARY WORKSPACE  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> E2EM WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PEM WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PFO WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PSS WETLAND  <span style="background-color: #add8e6; border: 1px solid black; padding: 2px;"> </span> NON-WETLAND WATERS         </p> <p> <span style="color: black;">---</span> EXISTING POWERLINE  <span style="color: black;">---</span> EXISTING PIPELINE  <span style="color: black;">---</span> PERMINANT ACCESS  <span style="color: black;">---</span> TEMPORARY ACCESS  <span style="color: black;">---</span> PROPOSED PIPELINE INSTALLATION  <span style="color: black;">---</span> BORE INSTALLATION  <span style="color: black;">---</span> CONVENTIONAL INSTALLATION  <span style="color: black;">---</span> HDD INSTALLATION  <span style="color: black;">---</span> OPEN CUT INSTALLATION  <span style="color: black;">---</span> PUSH PULL RACK INSTALLATION         </p>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project          Wetlands Permit          Aerial          Calcasieu Parish, Louisiana</p> <p>  <b>T. BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave., Houma, LA 70363          (844) 668-1090 - tbsmith.com       </p>
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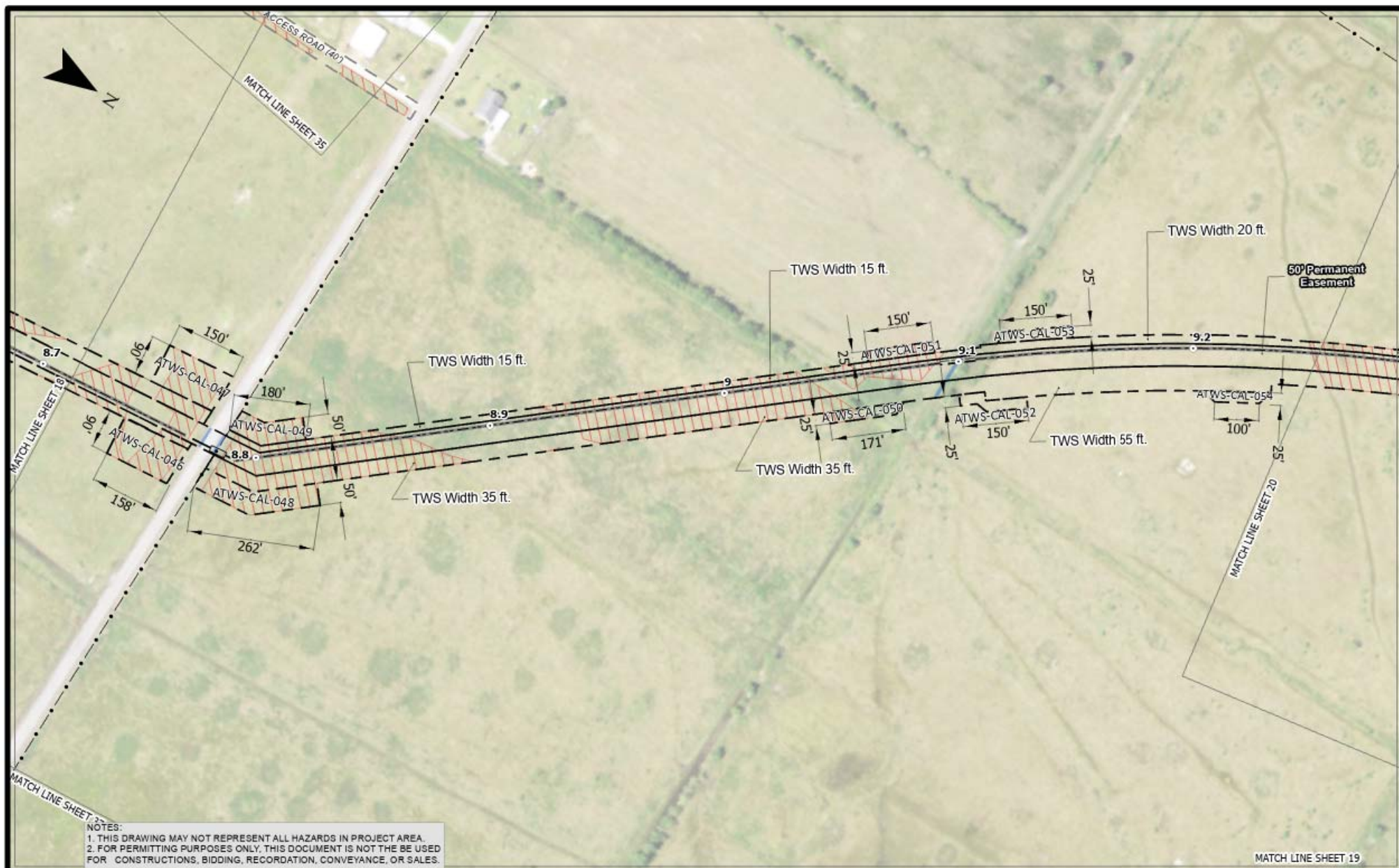
<p>SHEET NO.: 17 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F Projection: Transverse Mercator Datum: North American 1983 Units: Foot US</p> <p>300 150 0 300 US Feet</p>	<p>DRAWN BY: WJ    APPROVED BY: BT</p> <p>DATE: 4/23/2021    JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<p> <span style="color: green;">●</span> HDD ENTRY  <span style="color: red;">●</span> HDD EXIT  <span style="color: black;">●</span> MILE POST  <span style="color: black;">✱</span> ACCESS SOUNDINGS  <span style="border: 1px solid black; padding: 2px;"> </span> PERMANENT WORKSPACE  <span style="border: 1px solid black; padding: 2px;"> </span> TEMPORARY WORKSPACE  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> E2EM WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PEM WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PFO WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PSS WETLAND  <span style="background-color: #add8e6; border: 1px solid black; padding: 2px;"> </span> NON-WETLAND WATERS </p> <p> <span style="color: black;">---</span> EXISTING POWERLINE  <span style="color: black;">---</span> EXISTING PIPELINE  <span style="color: black;">---</span> PERMINANT ACCESS  <span style="color: black;">---</span> TEMPORARY ACCESS  <span style="color: black;">---</span> PROPOSED PIPELINE INSTALLATION  <span style="color: black;">---</span> BORE INSTALLATION  <span style="color: black;">---</span> CONVENTIONAL INSTALLATION  <span style="color: black;">---</span> HDD INSTALLATION  <span style="color: black;">---</span> OPEN CUT INSTALLATION  <span style="color: black;">---</span> PUSH PULL RACK INSTALLATION </p>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project Wetlands Permit Aerial Calcasieu Parish, Louisiana</p>
			<p>  <b>T. BAKER SMITH</b>  A CENTURY OF SOLUTIONS  412 South Van Ave., Houma, LA 70363  (888) 668-1090 - tbsmith.com </p>





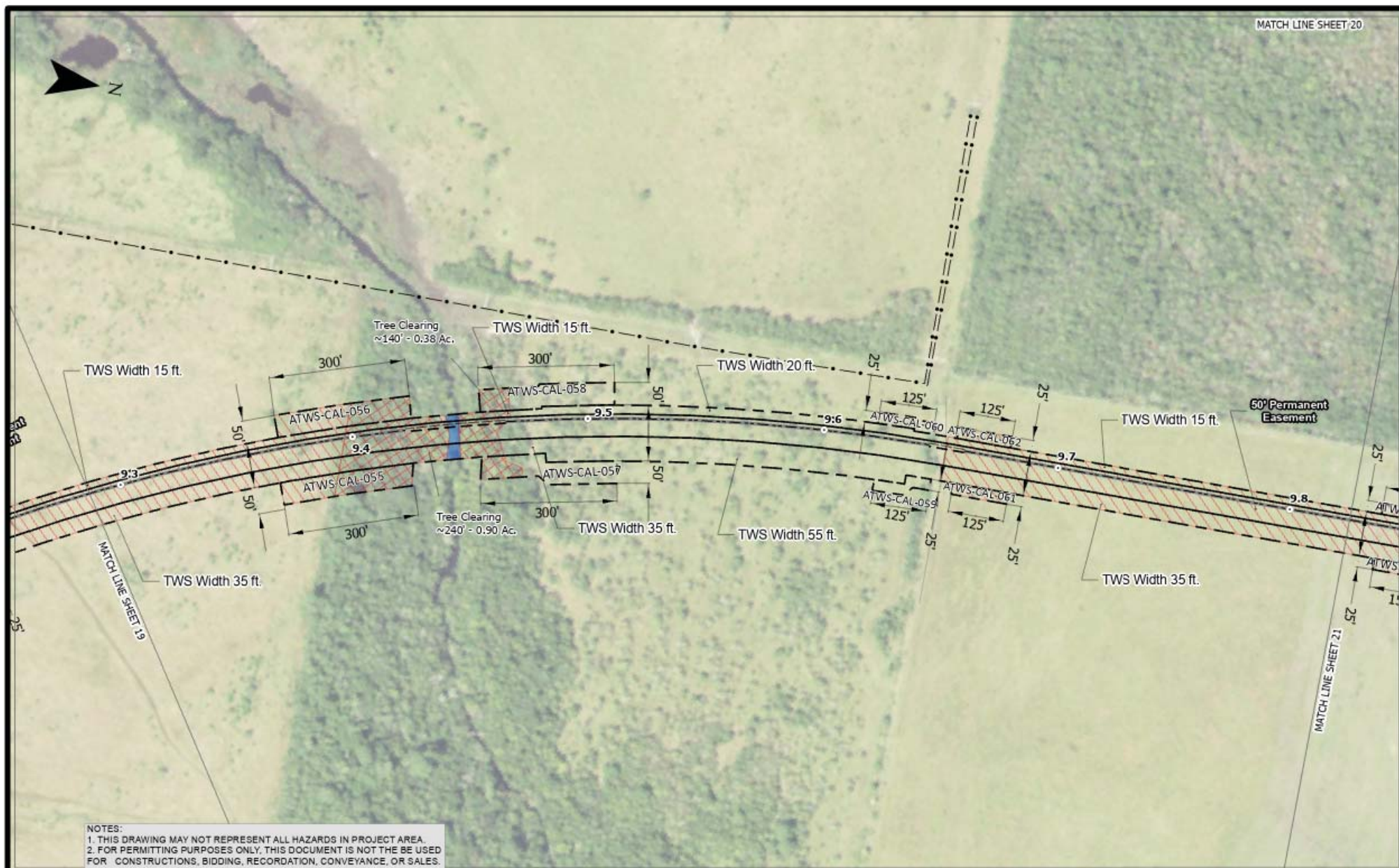
SHEET NO.: 18 of 62  COORDINATE SYSTEM: UTM83-15F Projection: Transverse Mercator Datum: North American 1983 Units: Foot US	DRAWN BY: WJ    APPROVED BY: BT  DATE: 4/23/2021    JOB NO.: 2020.0423  DRAWING NAME: LAS_Hackberry_Storage  REV. NO: _____  REV. DATE: _____  REV. BY: _____	<div> <div> <div><span style="color: green;">●</span> HDD ENTRY</div> <div><span style="color: red;">●</span> HDD EXIT</div> <div><span style="color: black;">○</span> MILE POST</div> <div><span style="color: black;">✱</span> ACCESS SOUNDINGS</div> <div><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> PERMANENT WORKSPACE</div> <div><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> TEMPORARY WORKSPACE</div> <div><span style="background-color: #f0f0f0; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> E2EM WETLAND</div> <div><span style="background-color: #f0f0f0; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> PEM WETLAND</div> <div><span style="background-color: #f0f0f0; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> PFO WETLAND</div> <div><span style="background-color: #f0f0f0; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> PSS WETLAND</div> <div><span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> NON-WETLAND WATERS</div> </div> <div> <div><span style="color: black;">---</span> EXISTING POWERLINE</div> <div><span style="color: black;">---</span> EXISTING PIPELINE</div> <div><span style="color: black;">---</span> PERMINANT ACCESS</div> <div><span style="color: black;">---</span> TEMPORARY ACCESS</div> <div><span style="color: black;">---</span> PROPOSED PIPELINE INSTALLATION</div> <div><span style="color: black;">---</span> BORE INSTALLATION</div> <div><span style="color: black;">---</span> CONVENTIONAL INSTALLATION</div> <div><span style="color: black;">---</span> HDD INSTALLATION</div> <div><span style="color: black;">---</span> OPEN CUT INSTALLATION</div> <div><span style="color: black;">---</span> PUSH PULL RACK INSTALLATION</div> </div> </div>	<div> <div>LA Storage, LLC</div> <div>Hackberry Storage Project</div> <div>Wetlands Permit</div> <div>Aerial</div> <div>Calcasieu Parish, Louisiana</div> </div>
<div> <div>300    150    0    300</div> <div>US Feet</div> </div>			<div> <div> <b>T. BAKER SMITH</b></div> <div>A CENTURY OF SOLUTIONS</div> <div>412 South Van Ave., Houma, LA 70363</div> <div>(846) 268-1090 - tbsmith.com</div> </div>





<p>SHEET NO.: 19 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F</p> <p>Projection: Transverse Mercator</p> <p>Datum: North American 1983</p> <p>Units: Foot US</p>	<p>DRAWN BY: WJ</p> <p>DATE: 4/23/2021</p> <p>APPROVED BY: BT</p> <p>JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<p> <span style="color: green;">●</span> HDD ENTRY  <span style="color: red;">●</span> HDD EXIT  <span style="color: black;">●</span> MILE POST  <span style="color: black;">●</span> ACCESS SOUNDINGS  <span style="color: black;">●</span> PERMANENT WORKSPACE  <span style="color: black;">●</span> TEMPORARY WORKSPACE  <span style="color: black;">●</span> E2EM WETLAND  <span style="color: red;">■</span> PEM WETLAND  <span style="color: red;">■</span> PFO WETLAND  <span style="color: red;">■</span> PSS WETLAND  <span style="color: blue;">■</span> NON-WETLAND WATERS </p> <p> <span style="color: black;">---</span> EXISTING POWERLINE  <span style="color: black;">---</span> EXISTING PIPELINE  <span style="color: black;">---</span> PERMINANT ACCESS  <span style="color: black;">---</span> TEMPORARY ACCESS  <span style="color: black;">---</span> PROPOSED PIPELINE INSTALLATION  <span style="color: black;">---</span> BORE INSTALLATION  <span style="color: black;">---</span> CONVENTIONAL INSTALLATION  <span style="color: black;">---</span> HDD INSTALLATION  <span style="color: black;">---</span> OPEN CUT INSTALLATION  <span style="color: black;">---</span> PUSH PULL RACK INSTALLATION </p>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project</p> <p>Wetlands Permit</p> <p>Aerial</p> <p>Calcasieu Parish, Louisiana</p>
<p>300 150 0 300</p> <p>US Feet</p>			<p><b>T.BAKER SMITH</b></p> <p>A CENTURY OF SOLUTIONS</p> <p>412 South Van Ave., Houma, LA 70363</p> <p>(848) 668-1090 - tbsmith.com</p>





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SHEET NO.: 20 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

Projection: Transverse Mercator

Datum: North American 1983

Units: Foot US

DATE: 4/23/2021

JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

REV. NO:

REV. DATE:

REV. BY:



- HDD ENTRY
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- MILE POST
- ACCESS SOUNDINGS
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## LA Storage, LLC

Hackberry Storage Project

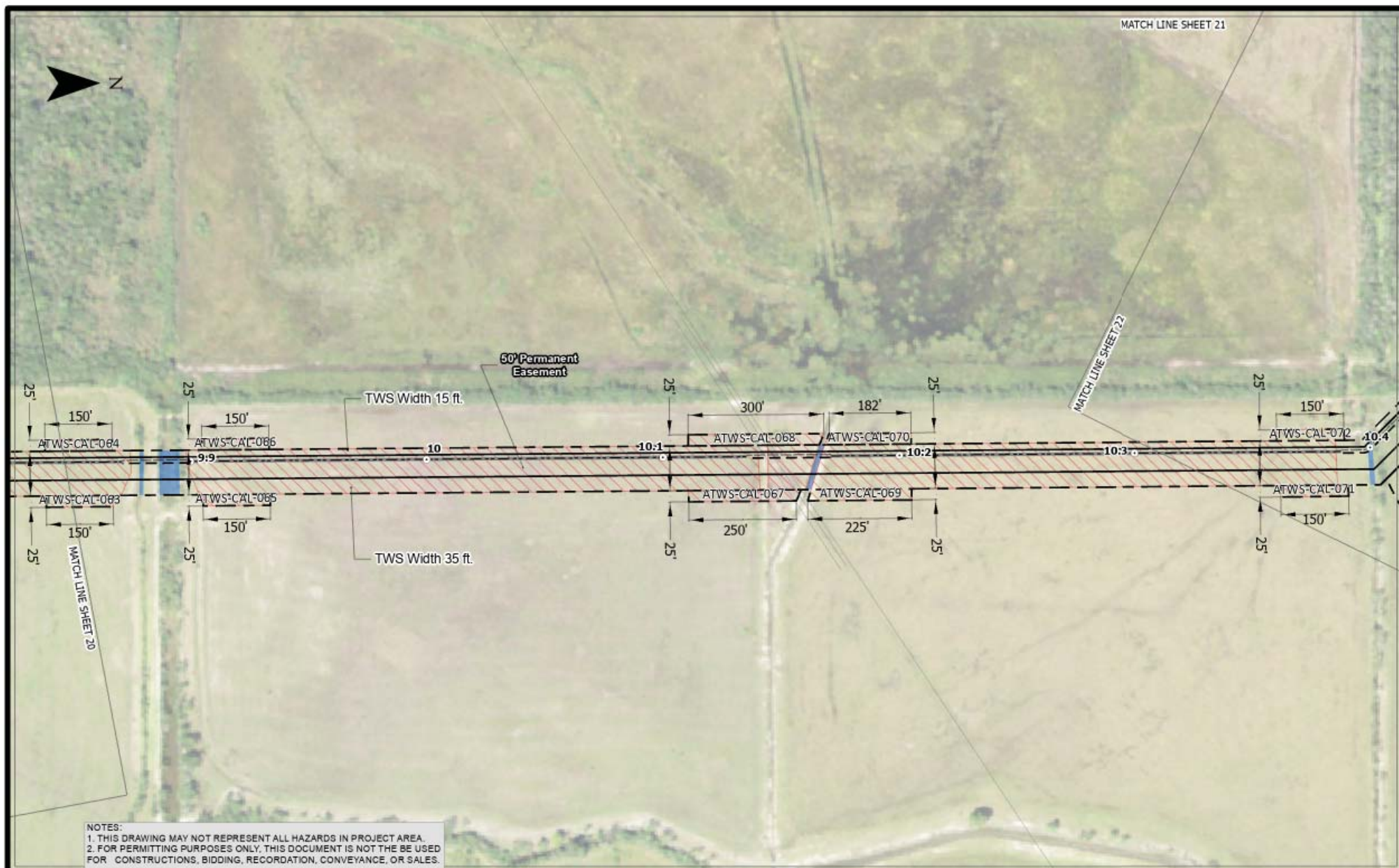
Wetlands Permit

Aerial

Calcasieu Parish, Louisiana







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SHEET NO.: 21 of 62  COORDINATE SYSTEM: UTM83-15F Projection: Transverse Mercator Datum: North American 1983 Units: Foot US	DRAWN BY: WJ    APPROVED BY: BT  DATE: 4/23/2021    JOB NO.: 2020.0423  DRAWING NAME: LAS_Hackberry_Storage  REV. NO: _____  REV. DATE: _____  REV. BY: _____	<table border="0"> <tr> <td></td><td>HDD ENTRY</td> <td></td><td>EXISTING POWERLINE</td> </tr> <tr> <td></td><td>HDD EXIT</td> <td></td><td>EXISTING PIPELINE</td> </tr> <tr> <td></td><td>MILE POST</td> <td></td><td>PERMINANT ACCESS</td> </tr> <tr> <td></td><td>ACCESS SOUNDINGS</td> <td></td><td>TEMPORARY ACCESS</td> </tr> <tr> <td></td><td>PERMANENT WORKSPACE</td> <td></td><td>PROPOSED PIPELINE INSTALLATION</td> </tr> <tr> <td></td><td>TEMPORARY WORKSPACE</td> <td></td><td>BORE INSTALLATION</td> </tr> <tr> <td></td><td>E2EM WETLAND</td> <td></td><td>CONVENTIONAL INSTALLATION</td> </tr> <tr> <td></td><td>PEM WETLAND</td> <td></td><td>HDD INSTALLATION</td> </tr> <tr> <td></td><td>PFO WETLAND</td> <td></td><td>OPEN CUT INSTALLATION</td> </tr> <tr> <td></td><td>PSS WETLAND</td> <td></td><td>PUSH PULL RACK INSTALLATION</td> </tr> <tr> <td></td><td>NON-WETLAND WATERS</td> <td></td><td></td> </tr> </table>		HDD ENTRY		EXISTING POWERLINE		HDD EXIT		EXISTING PIPELINE		MILE POST		PERMINANT ACCESS		ACCESS SOUNDINGS		TEMPORARY ACCESS		PERMANENT WORKSPACE		PROPOSED PIPELINE INSTALLATION		TEMPORARY WORKSPACE		BORE INSTALLATION		E2EM WETLAND		CONVENTIONAL INSTALLATION		PEM WETLAND		HDD INSTALLATION		PFO WETLAND		OPEN CUT INSTALLATION		PSS WETLAND		PUSH PULL RACK INSTALLATION		NON-WETLAND WATERS			<div data-bbox="1591 1292 1940 1343"> <h2>LA Storage, LLC</h2> </div> <div data-bbox="1600 1356 1932 1474"> <p>Hackberry Storage Project        Wetlands Permit        Aerial        Calcasieu Parish, Louisiana</p> </div> <div data-bbox="1549 1484 1940 1565"> <p><b>T. BAKER SMITH</b>        A CENTURY OF SOLUTIONS        412 South Van Ave., Houma, LA 70363        (848) 668-1090 - tbsmith.com</p> </div>
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SHEET NO.: 22 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

Projection: Transverse Mercator

Datum: North American 1983

Units: Foot US

DATE: 4/23/2021

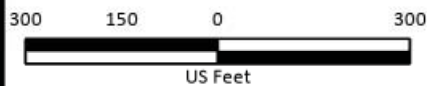
JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

REV. NO:

REV. DATE:

REV. BY:



- HDD ENTRY
- HDD EXIT
- MILE POST
- ACCESS SOUNDINGS
- PERMANENT WORKSPACE
- TEMPORARY WORKSPACE
- E2EM WETLAND
- PEM WETLAND
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## LA Storage, LLC

Hackberry Storage Project

Wetlands Permit

Aerial

Calcasieu Parish, Louisiana





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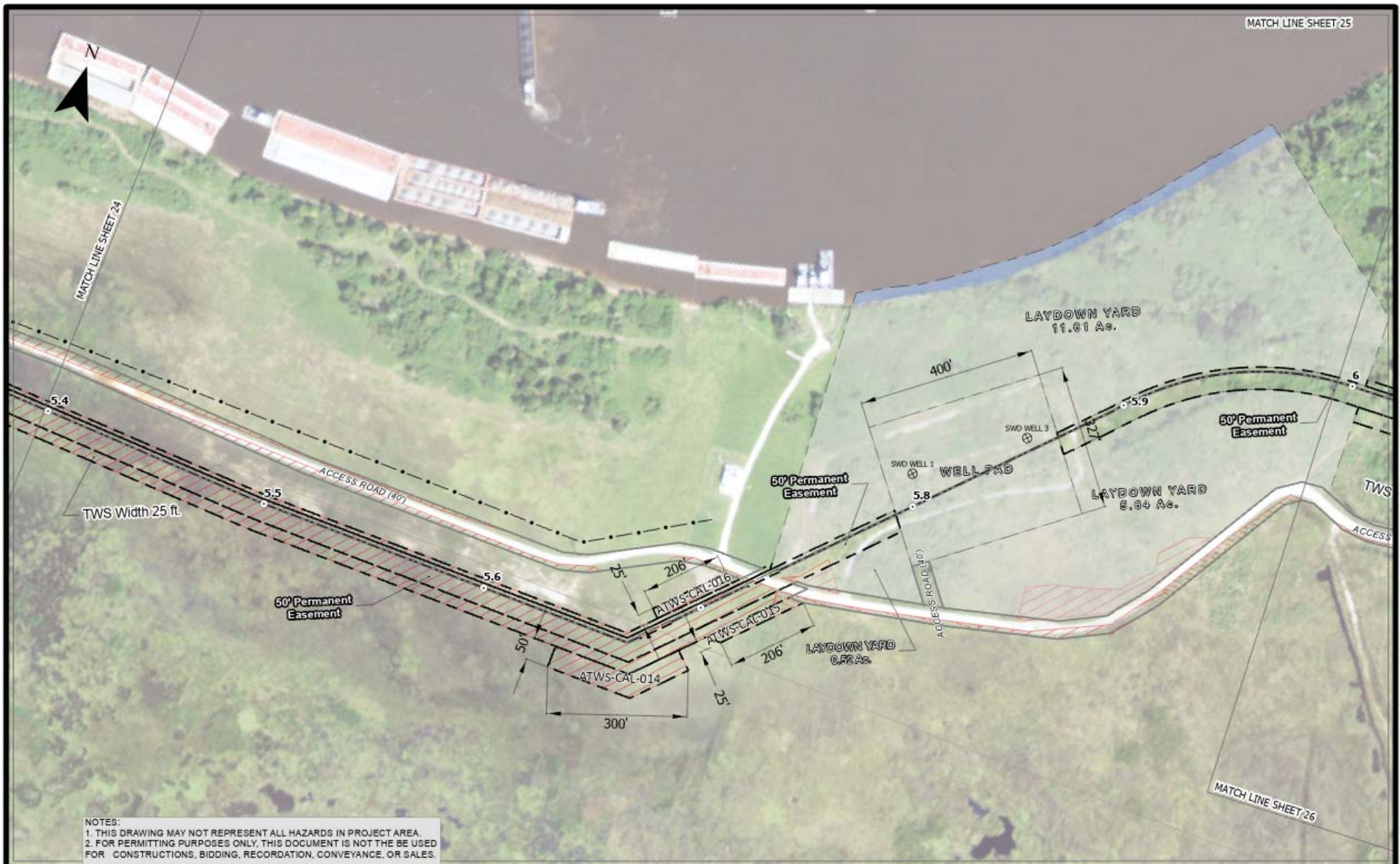
<p>SHEET NO.: 23 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F          Projection: Transverse Mercator          Datum: North American 1983          Units: Foot US</p> <p>300 150 0 300          US Feet</p>	<p>DRAWN BY: WJ    APPROVED BY: BT</p> <p>DATE: 4/23/2021    JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<table border="0"> <tr> <td>●</td><td>HDD ENTRY</td> <td>---</td><td>EXISTING POWERLINE</td> </tr> <tr> <td>○</td><td>HDD EXIT</td> <td>---</td><td>EXISTING PIPELINE</td> </tr> <tr> <td>+</td><td>MILE POST</td> <td>---</td><td>PERMINANT ACCESS</td> </tr> <tr> <td>+</td><td>ACCESS SOUNDINGS</td> <td>---</td><td>TEMPORARY ACCESS</td> </tr> <tr> <td>---</td><td>PERMANENT WORKSPACE</td> <td>---</td><td>PROPOSED PIPELINE INSTALLATION</td> </tr> <tr> <td>---</td><td>TEMPORARY WORKSPACE</td> <td>---</td><td></td> </tr> <tr> <td>---</td><td>E2EM WETLAND</td> <td>---</td><td>BORE INSTALLATION</td> </tr> <tr> <td>---</td><td>PEM WETLAND</td> <td>---</td><td>CONVENTIONAL INSTALLATION</td> </tr> <tr> <td>---</td><td>PFO WETLAND</td> <td>---</td><td>HDD INSTALLATION</td> </tr> <tr> <td>---</td><td>PSS WETLAND</td> <td>---</td><td>OPEN CUT INSTALLATION</td> </tr> <tr> <td>---</td><td>NON-WETLAND WATERS</td> <td>---</td><td>PUSH PULL RACK INSTALLATION</td> </tr> </table>	●	HDD ENTRY	---	EXISTING POWERLINE	○	HDD EXIT	---	EXISTING PIPELINE	+	MILE POST	---	PERMINANT ACCESS	+	ACCESS SOUNDINGS	---	TEMPORARY ACCESS	---	PERMANENT WORKSPACE	---	PROPOSED PIPELINE INSTALLATION	---	TEMPORARY WORKSPACE	---		---	E2EM WETLAND	---	BORE INSTALLATION	---	PEM WETLAND	---	CONVENTIONAL INSTALLATION	---	PFO WETLAND	---	HDD INSTALLATION	---	PSS WETLAND	---	OPEN CUT INSTALLATION	---	NON-WETLAND WATERS	---	PUSH PULL RACK INSTALLATION	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project          Wetlands Permit          Aerial          Calcasieu Parish, Louisiana</p> <p><b>TBS T. BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave., Houma, LA 70363          (848) 668-1090 - tbsmith.com</p>
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<p>300      150      0      300</p> <p>US Feet</p>			<p><b>T.B. BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave., Houma, LA 70363          (888) 668-1090 - tbsmith.com</p>





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SHEET NO.: 25 of 62

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COORDINATE SYSTEM: UTM83-15F

Projection: Transverse Mercator

Datum: North American 1983

Units: Foot US

DATE: 4/23/2021

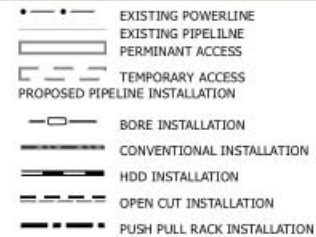
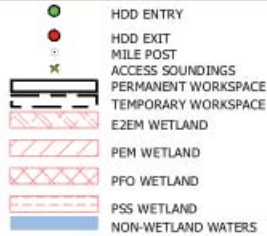
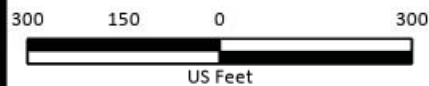
JOB NO.: 2020.0423

DRAWING NAME: LAS\_Hackberry\_Storage

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**LA Storage, LLC**

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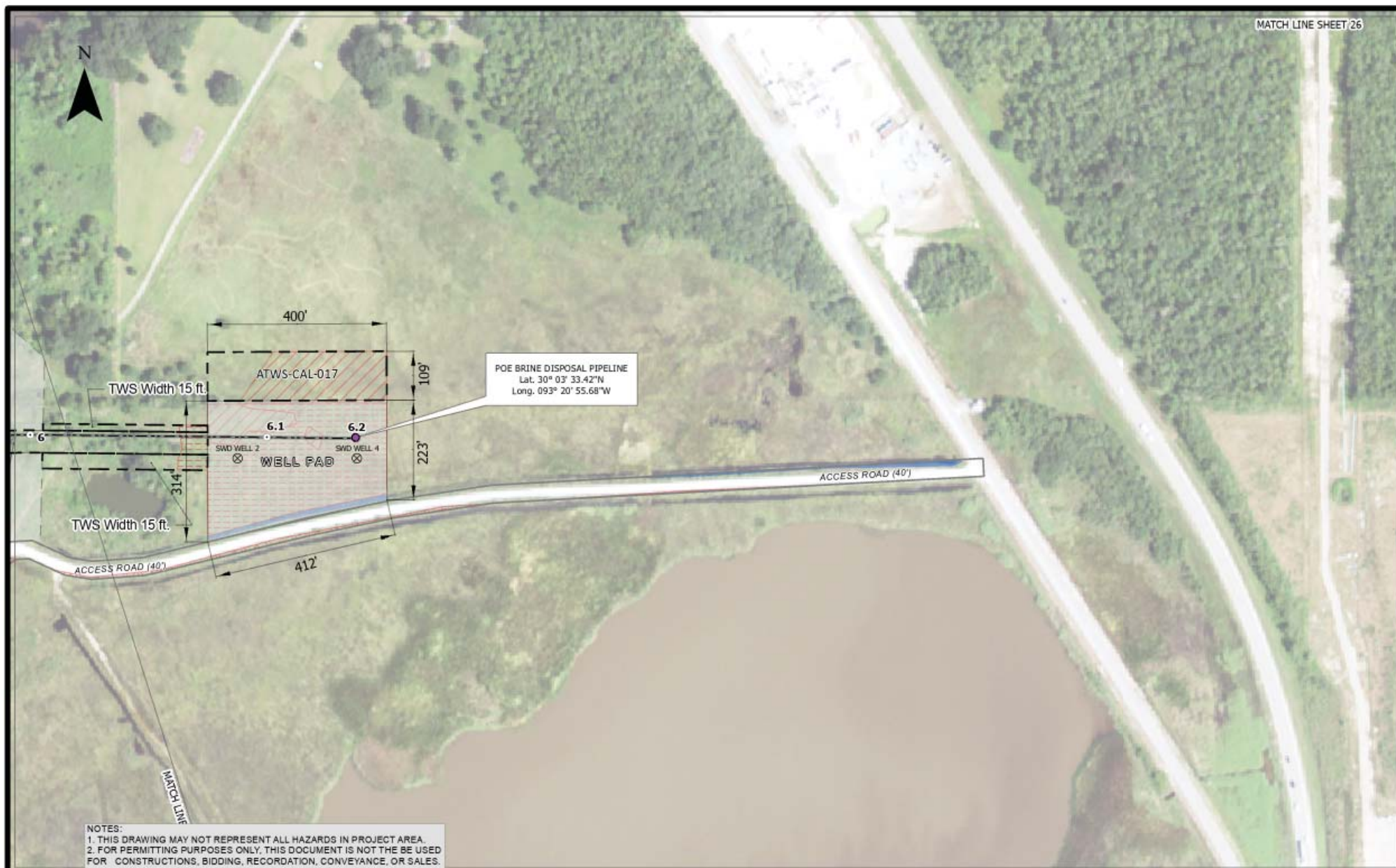
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SHEET NO.: 29 of 62		DRAWN BY: WJ	APPROVED BY: 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<p>SHEET NO.: 30 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F</p> <p>Projection: Transverse Mercator</p> <p>Datum: North American 1983</p> <p>Units: Foot US</p>	<p>DRAWN BY: WJ</p> <p>DATE: 4/23/2021</p> <p>APPROVED BY: BT</p> <p>JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p>	<p>LEGEND:</p> <ul style="list-style-type: none"> <li>HDD ENTRY</li> <li>HDD EXIT</li> <li>ACCESS SOUNDINGS</li> <li>PERMANENT WORKSPACE</li> <li>TEMPORARY WORKSPACE</li> <li>E2EM WETLAND</li> <li>PEM WETLAND</li> <li>PFO WETLAND</li> <li>PSS WETLAND</li> <li>NON-WETLAND WATERS</li> <li>EXISTING POWERLINE</li> <li>EXISTING PIPELINE</li> <li>PERMINANT ACCESS</li> <li>TEMPORARY ACCESS</li> <li>PROPOSED PIPELINE INSTALLATION</li> <li>BORE INSTALLATION</li> <li>CONVENTIONAL INSTALLATION</li> <li>HDD INSTALLATION</li> <li>OPEN CUT INSTALLATION</li> <li>PUSH PULL RACK INSTALLATION</li> </ul>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project</p> <p>Wetlands Permit</p> <p>Aerial</p> <p>Cameron Parish, Louisiana</p>
<p>300 150 0 300</p> <p>US Feet</p>	<p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>		<p><b>T. BAKER SMITH</b></p> <p>A CENTURY OF SOLUTIONS</p> <p>412 South Van Ave., Houma, LA 70363</p> <p>(888) 668-1090 - tbsmith.com</p>



<p>SHEET NO.: 31 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F</p> <p>Projection: Transverse Mercator</p> <p>Datum: North American 1983</p> <p>Units: Foot US</p>	<p>DRAWN BY: WJ</p> <p>DATE: 4/23/2021</p> <p>APPROVED BY: BT</p> <p>JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p>	<p>LEGEND</p> <ul style="list-style-type: none"> <li>HDD ENTRY</li> <li>HDD EXIT</li> <li>WETLANDS</li> <li>PERMANENT WORKSPACE</li> <li>TEMPORARY WORKSPACE</li> <li>E2EM WETLAND</li> <li>PEM WETLAND</li> <li>PFO WETLAND</li> <li>PSS WETLAND</li> <li>NON-WETLAND WATERS</li> <li>EXISTING POWERLINE</li> <li>EXISTING PIPELINE</li> <li>PERMINANT ACCESS</li> <li>TEMPORARY ACCESS</li> <li>PROPOSED PIPELINE INSTALLATION</li> <li>BORE INSTALLATION</li> <li>CONVENTIONAL INSTALLATION</li> <li>HDD INSTALLATION</li> <li>OPEN CUT INSTALLATION</li> <li>PUSH PULL RACK INSTALLATION</li> </ul>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project</p> <p>Wetlands Permit</p> <p>Aerial</p> <p>Cameron Parish, Louisiana</p>
<p>300 150 0 300</p> <p>US Feet</p>	<p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>		<p><b>T. BAKER SMITH</b></p> <p>A CENTURY OF SOLUTIONS</p> <p>412 South Van Ave., Houma, LA 70363</p> <p>(848) 668-1000 - tbsmith.com</p>









NOTES:  
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<p>SHEET NO.: 33 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F          Projection: Transverse Mercator          Datum: North American 1983          Units: Foot US</p>	<p>DRAWN BY: WJ      APPROVED BY: BT</p> <p>DATE: 4/23/2021      JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<p> <span style="color: green;">●</span> HDD ENTRY  <span style="color: red;">●</span> HDD EXIT  <span style="color: black;">●</span> MILE POST  <span style="color: black;">x</span> ACCESS SOUNDINGS  <span style="border: 1px solid black; padding: 2px;"> </span> PERMANENT WORKSPACE  <span style="border: 1px solid black; padding: 2px;"> </span> TEMPORARY WORKSPACE  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> E2EM WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PEM WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PFO WETLAND  <span style="background-color: #f0f0f0; border: 1px solid black; padding: 2px;"> </span> PSS WETLAND  <span style="background-color: #add8e6; border: 1px solid black; padding: 2px;"> </span> NON-WETLAND WATERS         </p> <p> <span style="color: black;">---</span> EXISTING POWERLINE  <span style="color: black;">---</span> EXISTING PIPELINE  <span style="color: black;">---</span> PERMINANT ACCESS  <span style="color: black;">---</span> TEMPORARY ACCESS  <span style="color: black;">---</span> PROPOSED PIPELINE INSTALLATION  <span style="color: black;">---</span> BORE INSTALLATION  <span style="color: black;">---</span> CONVENTIONAL INSTALLATION  <span style="color: black;">---</span> HDD INSTALLATION  <span style="color: black;">---</span> OPEN CUT INSTALLATION  <span style="color: black;">---</span> PUSH PULL RACK INSTALLATION         </p>	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project          Wetlands Permit          Aerial          Cameron Parish, Louisiana</p>
<p>300      150      0      300</p> <p>US Feet</p>			<p><b>T. BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave., Houma, LA 70363          (888) 668-1090 - tbsmith.com</p>



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SHEET NO.: 34 of 62		DRAWN BY: WJ	APPROVED BY: BT	<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div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NOTES:  
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<p>SHEET NO.: 35 of 62</p> <p>COORDINATE SYSTEM: UTM83-15F          Projection: Transverse Mercator          Datum: North American 1983          Units: Foot US</p> <p>300 150 0 300          US Feet</p>	<p>DRAWN BY: WJ    APPROVED BY: BT</p> <p>DATE: 4/23/2021    JOB NO.: 2020.0423</p> <p>DRAWING NAME: LAS_Hackberry_Storage</p> <p>REV. NO:</p> <p>REV. DATE:</p> <p>REV. BY:</p>	<table border="0"> <tr> <td>●</td><td>HDD ENTRY</td> <td>---</td><td>EXISTING POWERLINE</td> </tr> <tr> <td>○</td><td>HDD EXIT</td> <td>---</td><td>EXISTING PIPELINE</td> </tr> <tr> <td>+</td><td>MILE POST</td> <td>---</td><td>PERMINANT ACCESS</td> </tr> <tr> <td>✱</td><td>ACCESS SOUNDINGS</td> <td>---</td><td>TEMPORARY ACCESS</td> </tr> <tr> <td>---</td><td>PERMANENT WORKSPACE</td> <td>---</td><td>PROPOSED PIPELINE INSTALLATION</td> </tr> <tr> <td>---</td><td>TEMPORARY WORKSPACE</td> <td>---</td><td></td> </tr> <tr> <td>---</td><td>E2EM WETLAND</td> <td>---</td><td>BORE INSTALLATION</td> </tr> <tr> <td>---</td><td>PEM WETLAND</td> <td>---</td><td>CONVENTIONAL INSTALLATION</td> </tr> <tr> <td>---</td><td>PFO WETLAND</td> <td>---</td><td>HDD INSTALLATION</td> </tr> <tr> <td>---</td><td>PSS WETLAND</td> <td>---</td><td>OPEN CUT INSTALLATION</td> </tr> <tr> <td>---</td><td>NON-WETLAND WATERS</td> <td>---</td><td>PUSH PULL RACK INSTALLATION</td> </tr> </table>	●	HDD ENTRY	---	EXISTING POWERLINE	○	HDD EXIT	---	EXISTING PIPELINE	+	MILE POST	---	PERMINANT ACCESS	✱	ACCESS SOUNDINGS	---	TEMPORARY ACCESS	---	PERMANENT WORKSPACE	---	PROPOSED PIPELINE INSTALLATION	---	TEMPORARY WORKSPACE	---		---	E2EM WETLAND	---	BORE INSTALLATION	---	PEM WETLAND	---	CONVENTIONAL INSTALLATION	---	PFO WETLAND	---	HDD INSTALLATION	---	PSS WETLAND	---	OPEN CUT INSTALLATION	---	NON-WETLAND WATERS	---	PUSH PULL RACK INSTALLATION	<p><b>LA Storage, LLC</b></p> <p>Hackberry Storage Project          Wetlands Permit          Aerial          Calcasieu Parish, Louisiana</p> <p><b>T.BAKER SMITH</b>          A CENTURY OF SOLUTIONS          412 South Van Ave., Houma, LA 70363          (888) 668-1090 - tbsmith.com</p>
●	HDD ENTRY	---	EXISTING POWERLINE																																												
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SHEET NO.: 36 of 62

DRAWN BY: WJ

APPROVED BY: BT

COORDINATE SYSTEM: UTM83-15F

DATE: 4/23/2021

JOB NO.: 2020.0423

Projection: Transverse Mercator

DRAWING NAME: LAS\_Hackberry\_Storage

Datum: North American 1983

REV. NO:

Units: Foot US

REV. DATE:

REV. BY:



- HDD ENTRY
- HDD EXIT
- MILE POST
- ✱ ACCESS SOUNDINGS
- PERMANENT WORKSPACE
- TEMPORARY WORKSPACE
- E2EM WETLAND
- PEM WETLAND
- PFO WETLAND
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- NON-WETLAND WATERS

- EXISTING POWERLINE
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**LA Storage, LLC**

Hackberry Storage Project

Wetlands Permit

Aerial

Calcasieu Parish, Louisiana







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**LA Storage, LLC**

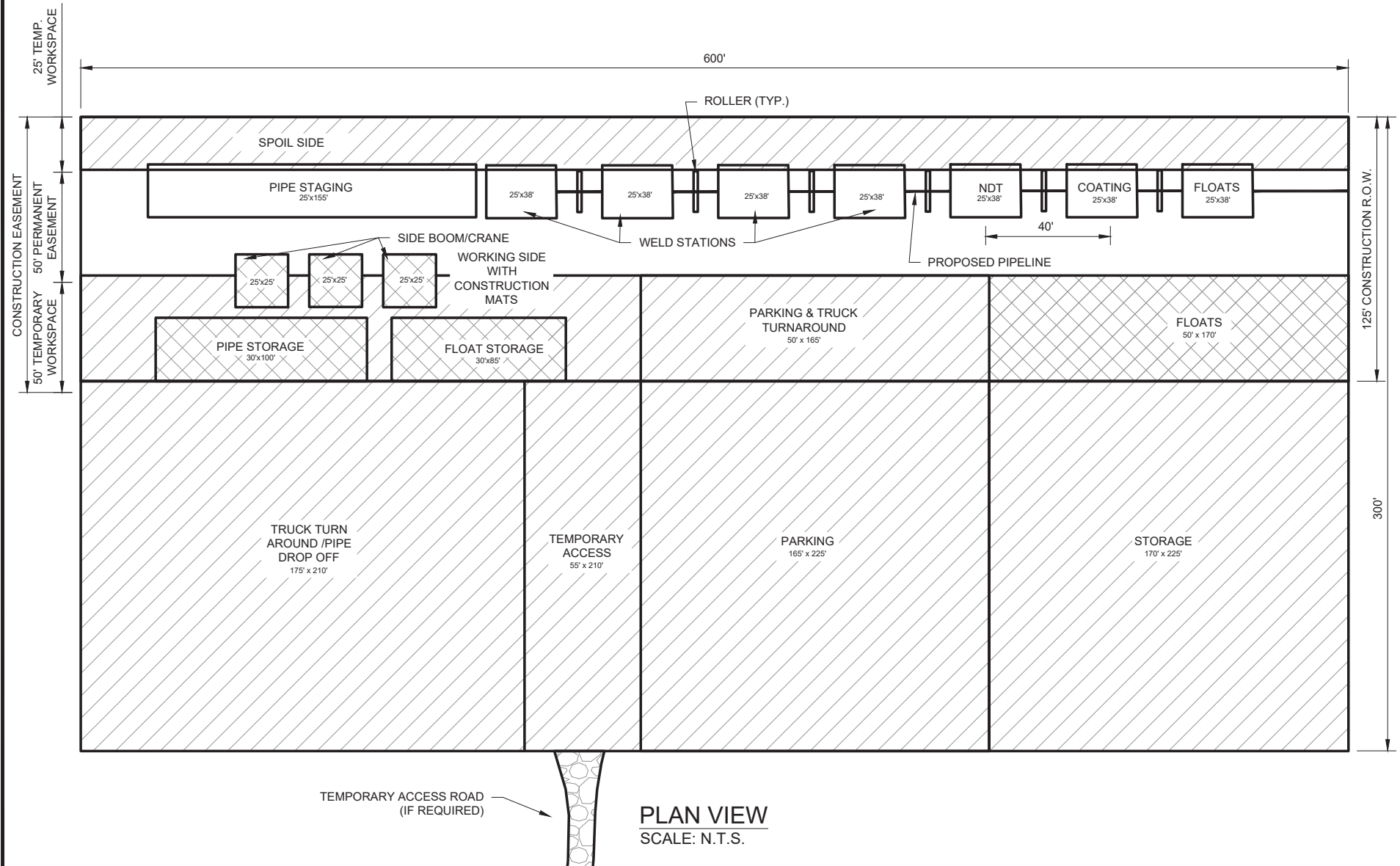
Hackberry Storage Project

Wetlands Permit

Aerial

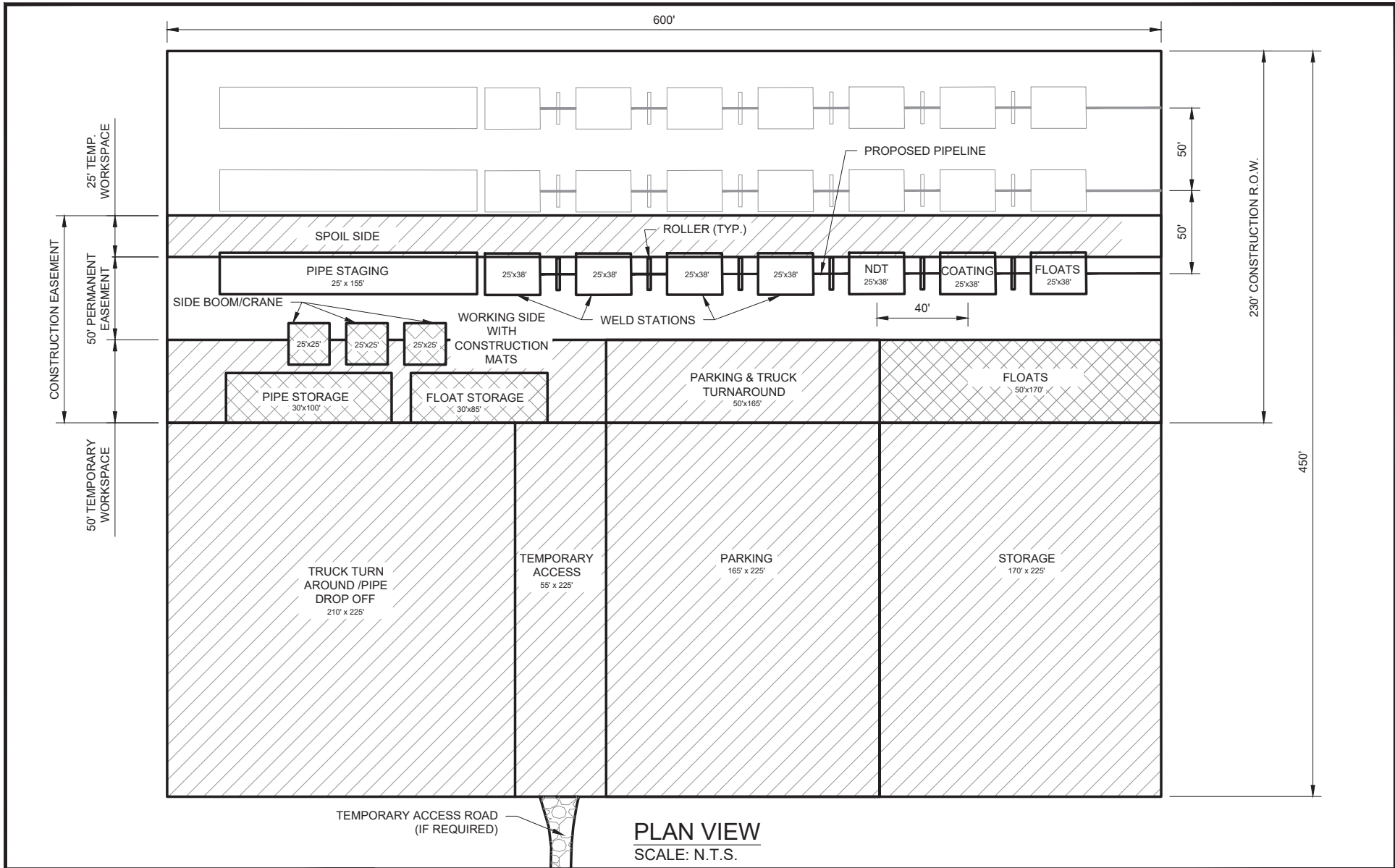
Calcasieu Parish, Louisiana






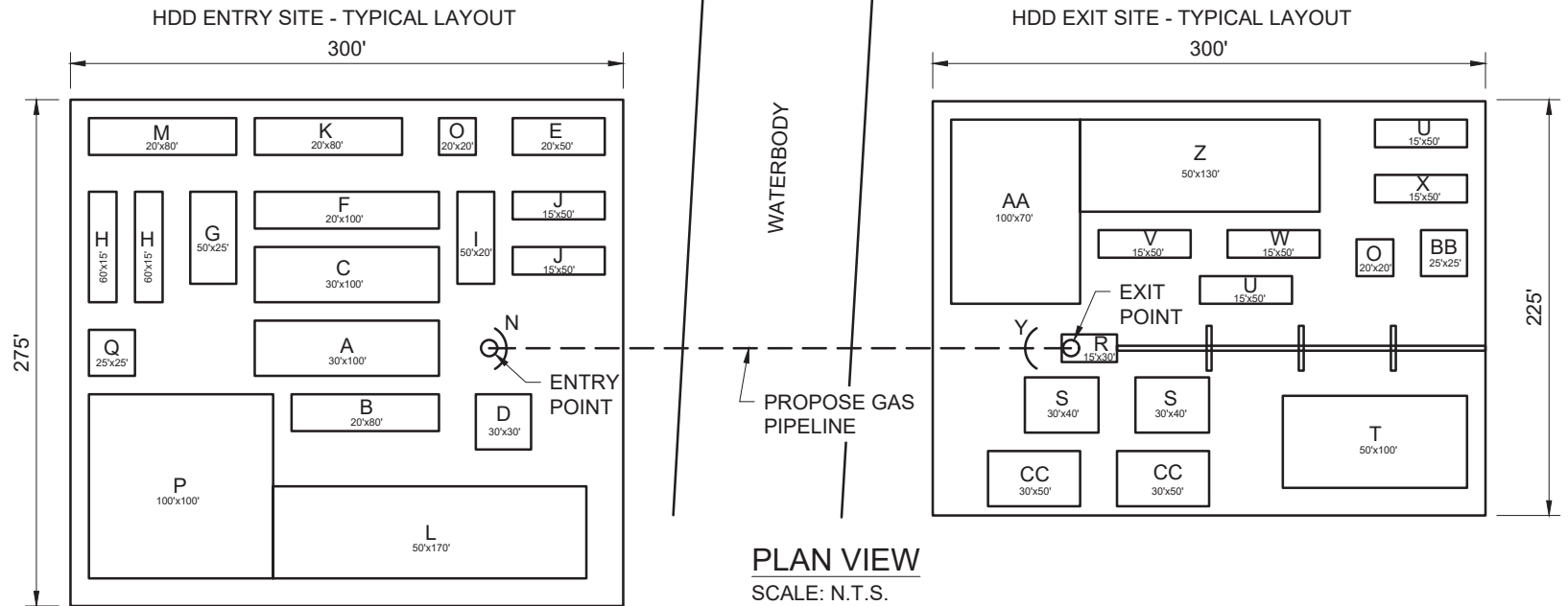
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			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0001						SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH RACK RIGHT-OF-WAY UPLAND SINGLE PIPELINE	
SHEET NO: 38		OF 62								
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										
TBS T. BAKER SMITH A CENTURY OF SOLUTIONS 107 Global Circle, Lafayette, LA 70503 (337) 735-2800 - tbsmith.com										
REV. NO: E		REV. DATE: 11/11/2021		REV. BY: CMB						





			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES								
			DATE: 08/04/20		JOB NO: 2020.0453		<div>SEMPRA LNG</div> <div>LA STORAGE PROJECT</div> <div>TYPICAL PUSH RACK RIGHT-OF-WAY</div> <div>UPLAND</div> <div>THREE PIPELINE</div>								
			DRAWING NAME: 2020.0453-WS-0002												
<div></div>			SHEET NO: 39		OF 62										
			PROJECTION: PROJECTION												
			GEO. DATUM: NAD83   VERT. DATUM: NAVD88												
			GRID UNITS: US SURVEY FEET												
REV. NO: E		REV. DATE: 11/11/2021		REV. BY: CMB		REVISION DESCRIPTION: CLIENT FEEDBACK									

2/4/2021 - P:\Y-2020\2020.0423DWG\WORKSPACE DRAWINGS\TYPICAL R.O.W. CONSTRUCTION REV.D.DWG



- 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 (PALLETES)  
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



REV. NO: D REV. DATE: 01/06/2021 REV. BY: SJS

DRAWN BY: LDE APPROVED BY: SJS

DATE: 08/04/20 JOB NO: 2020.0453

DRAWING NAME: 2020.0453-WS-0003

SHEET NO: 40 OF 62

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

REVISION DESCRIPTION:  
CLIENT FEEDBACK

## TYPICAL CONSTRUCTION WORKSPACES


SEMPRA LNG  
LA STORAGE PROJECT  
TYPICAL HORIZONTAL DIRECTION DRILL RIGHT-OF-WAY



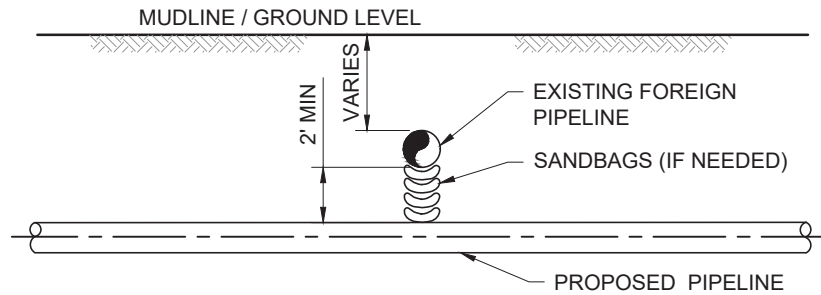
# TYPICAL HDD NOTES (CONT. FROM PAGE 40)

## NOTES:

1. ONLY BENTONITE BASED DRILLING MUD MAY BE USED. USE OF ADDITIVES TO THE DRILLING MUD IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE COMPANY.
2. INSTALL SUITABLE DRILLING MUD TANKS OR SUMPS TO PREVENT CONTAMINATION OF WATERCOURSE.
3. INSTALL BERMS DOWN SLOPE FROM THE DRILL ENTRY AND ANTICIPATED EXIT POINTS TO CONTAIN ANY RELEASE OF DRILLING MUD.
4. DISPOSE OF DRILLING MUD IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AUTHORITY REQUIREMENTS AND IN A COMPANY APPROVED LOCATION.
5. DISTANCE BACK FROM EDGE OF WATERBODY VARIES WITH BENDING RADIUS OF PIPE.
6. REQUIRED DEPTH TO BE DETERMINED AFTER SITE SPECIFIC GEOTECHNICAL INVESTIGATION.
7. AT LOCATION WHERE THE EXIT IS A WETLAND, A BERM SHALL BE USED TO PREVENT CONTAMINATION.

 <b>T. BAKER SMITH</b> <small>A CENTURY OF SOLUTIONS</small> <small>107 Global Circle, Lafayette, LA 70503</small> <small>(337)735-2800 - tbsmith.com</small>	DRAWN BY: LDE		APPROVED BY: SJS	<b>TYPICAL CONSTRUCTION WORKSPACES</b>  <b>SEMPRA LNG</b> <b>LA STORAGE PROJECT</b> <b>TYPICAL HORIZONTAL DIRECTION DRILL RIGHT-OF-WAY</b>			
	DATE: 09/04/20		JOB NO: 2020.0453				
	DRAWING NAME: 2020.0453-WS-0003_						
	SHEET NO: 41		OF 62				
REV. NO: D    REV. DATE: 01/06/2021    REV. BY: SJS	PROJECTION: PROJECTION						
	GEO. DATUM: NAD83   VERT. DATUM: NAVD88						
	GRID UNITS: US SURVEY FEET						
	REVISION DESCRIPTION:						
	CLIENT FEEDBACK						

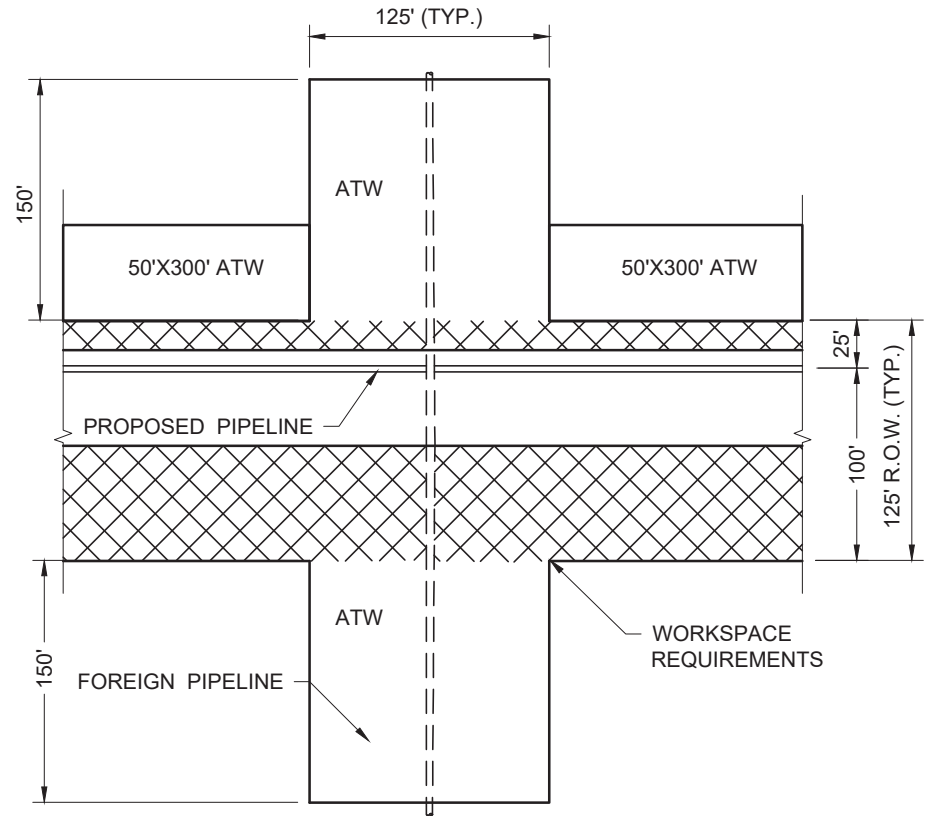
2/4/2021 - P:\Y-2020\2020.0423DWG\WORKSPACE DRAWING\TYPICAL R.O.W. CONSTRUCTION REV.D.DWG




**TYPICAL FOREIGN PIPELINE CROSSING DETAIL**  
SCALE: N.T.S.

**NOTES:**

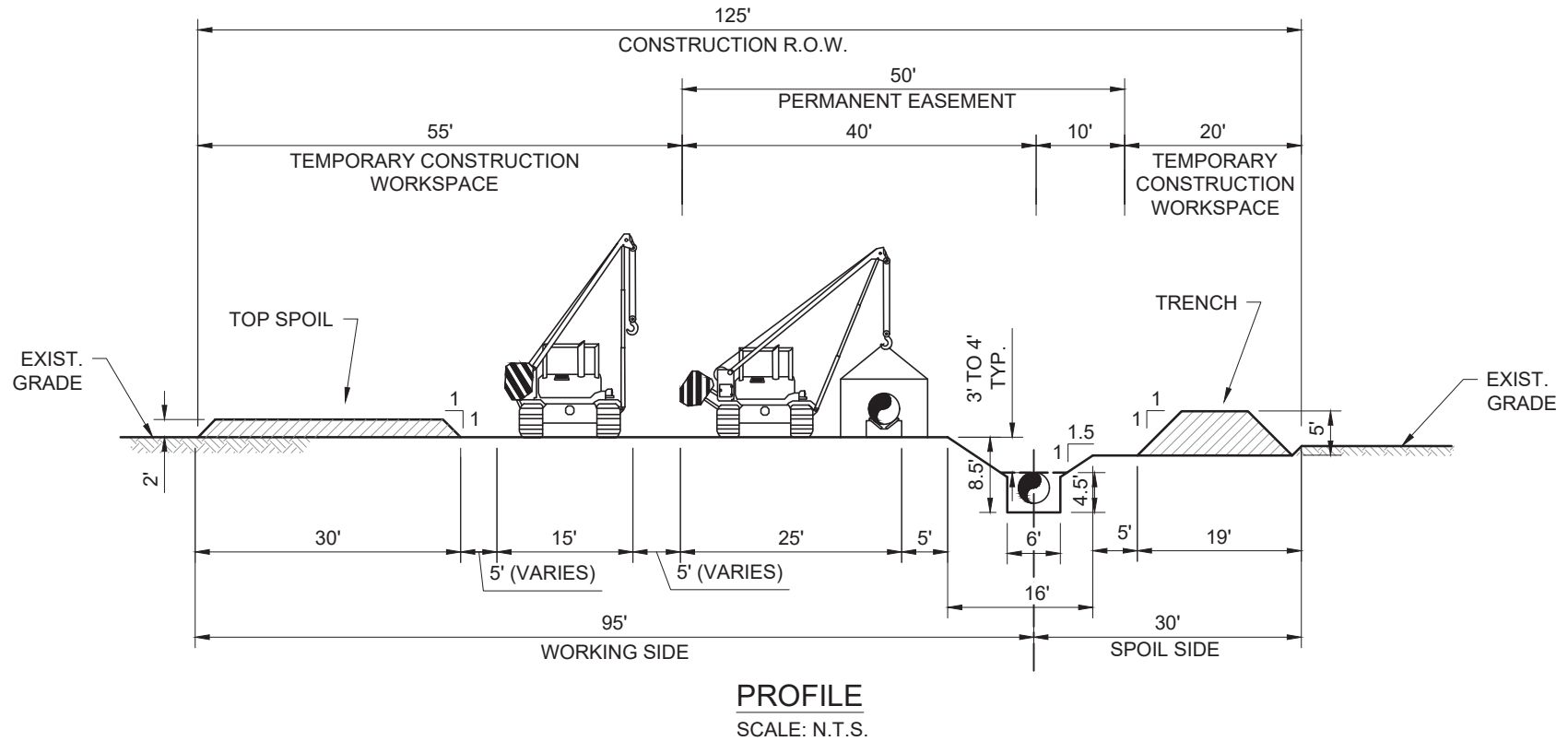
1. FOREIGN PIPELINE LOCATIONS AND DEPTHS TO BE DETERMINED BY ELECTRONIC MEANS IN ADVANCE OF PIPELINE CONSTRUCTION AND CONFIRMED BY OWNER APPROVED EXCAVATION METHOD.
2. OWNER OF FOREIGN PIPELINES SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION OF CROSSING.
3. C.P. TEST STATION TO BE INSTALLED WHERE 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.

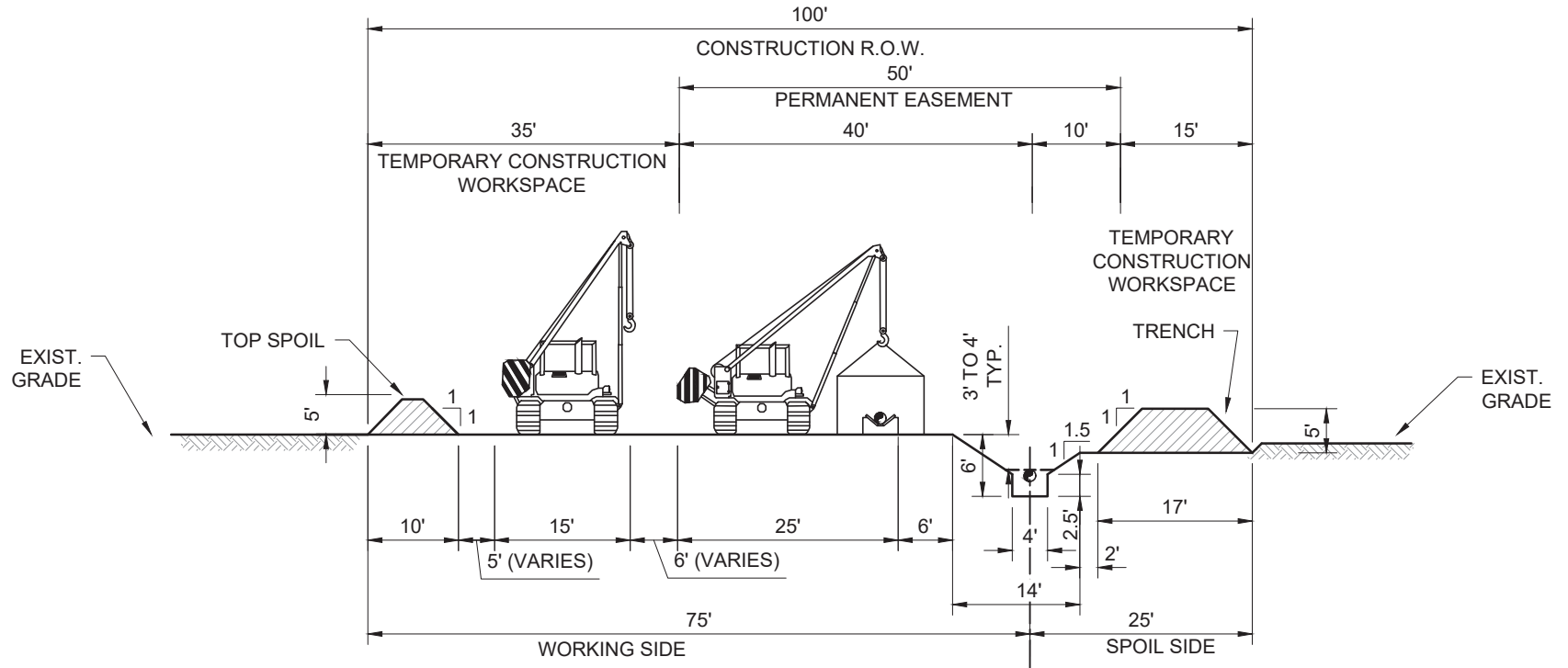


**TYPICAL FOREIGN PIPELINE CROSSING PLAN**  
SCALE: N.T.S.

<div></div>			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0004						SEMPRA LNG LA STORAGE PROJECT TYPICAL FOREIGN PIPELINE CROSSING IN THE OPEN WATER OR MARSH	
SHEET NO: 42		OF 62								
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS						








### PROFILE

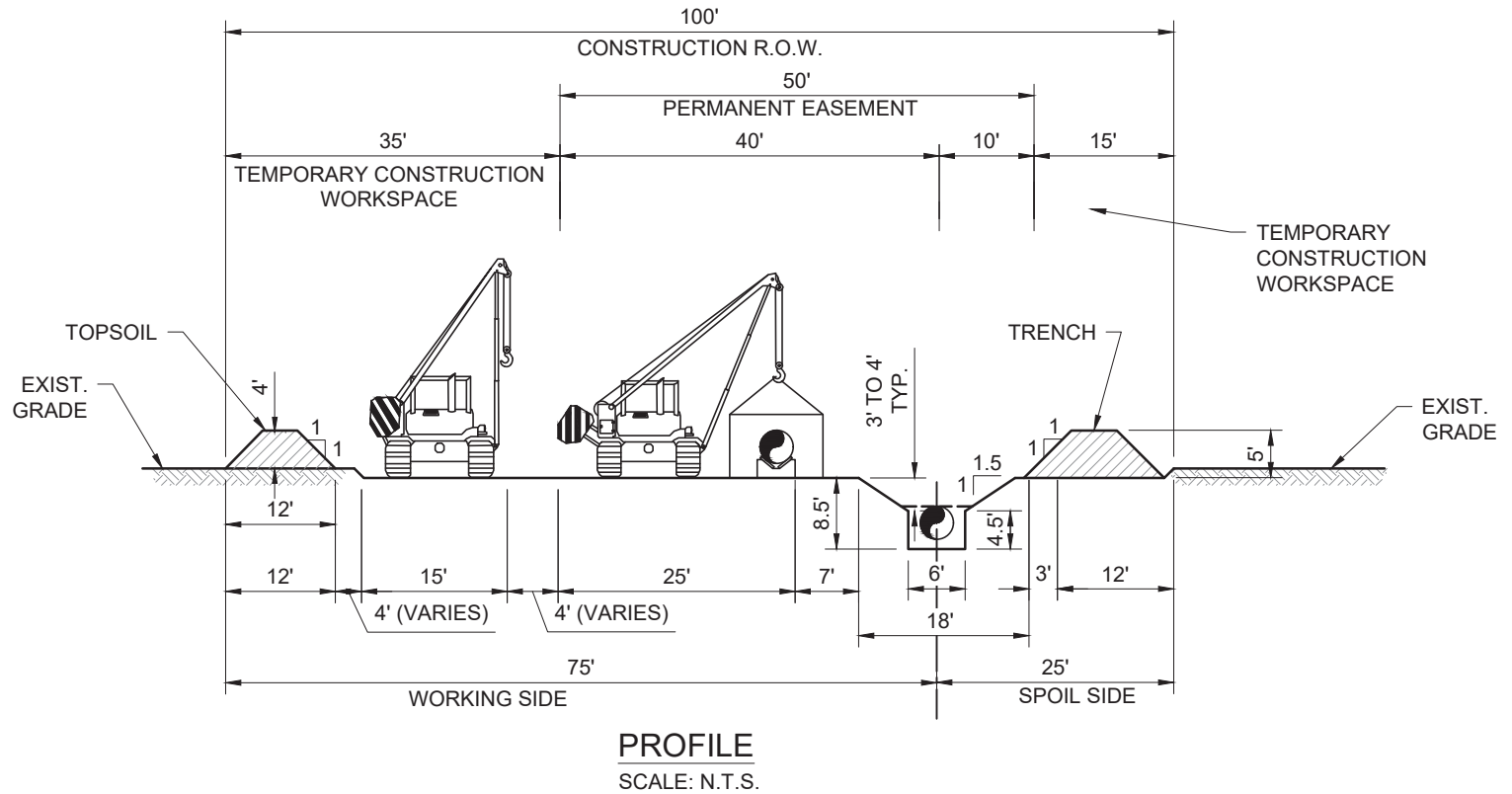
SCALE: N.T.S.

#### NOTES:

1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
4. FOREIGN PIPELINE LOCATIONS AND DEPTHS TO BE DETERMINED IN ADVANCE OF PIPELINE CONSTRUCTION.
5. FULL RIGHT-OF-WAY TOPSOILING WILL BE CONDUCTED PER LANDOWNER REQUEST AND IN COMPLIANCE WITH THE FFRC UPLAND MAINTENANCE PLAN.
6. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.
7. TOPSOIL SHALL BE SEGREGATED ON WORKING SIDE IN AGRICULTURAL AREAS.


<div><div><div>T. BAKER SMITH</div><div>A CENTURY OF SOLUTIONS</div><div>107 Global Circle, Lafayette, LA 70503</div><div>(337) 735-2800 - tbsmith.com</div></div></div>			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0006						SEMPRA LNG LA STORAGE PROJECT TYPICAL CONVENTIONAL CONSTRUCTION RIGHT-OF-WAY TRADITIONAL UPLAND SINGLE 16" BRINE PIPELINE	
SHEET NO: 44 OF 62										
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS						

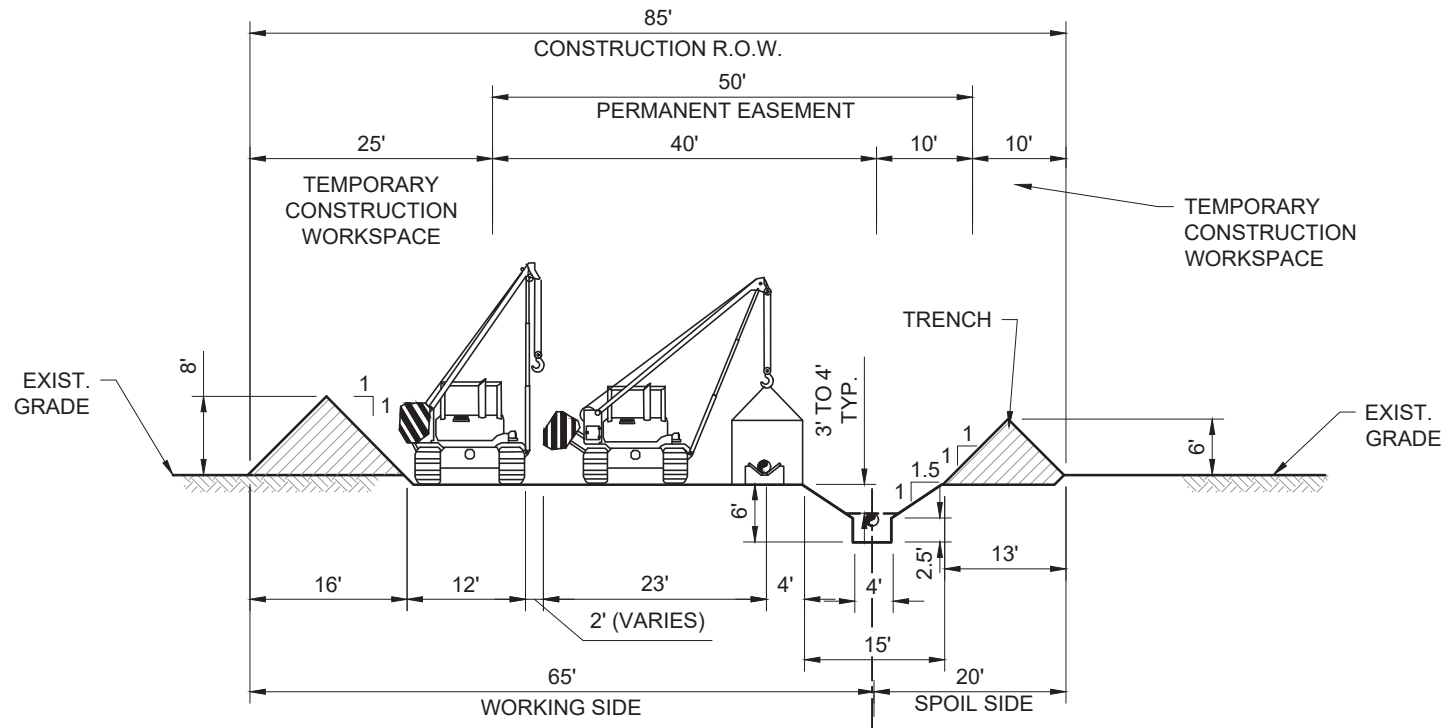


**NOTES:**

1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
4. FOREIGN PIPELINE LOCATIONS AND DEPTHS TO BE DETERMINED IN ADVANCE OF PIPELINE CONSTRUCTION.
5. FULL RIGHT-OF-WAY TOPSOILING WILL BE CONDUCTED PER LANDOWNER REQUEST AND IN COMPLIANCE WITH THE FFRC UPLAND MAINTENANCE PLAN.
6. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.
7. TOPSOIL SHALL BE SEGREGATED ON WORKING SIDE IN AGRICULTURAL AREAS.
8. MATS CAN BE USED AS AN ALTERNATIVE TO FULL RIGHT OF WAY TOPSOILING.

			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0008						SEMPRA LNG LA STORAGE PROJECT TYPICAL CONVENTIONAL CONSTRUCTION RIGHT-OF-WAY NON-SATURATED WETLAND SINGLE 42" NATURAL GAS PIPELINE	
SHEET NO: 45		OF 62								
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS						

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**PROFILE**  
SCALE: N.T.S.

**NOTES:**

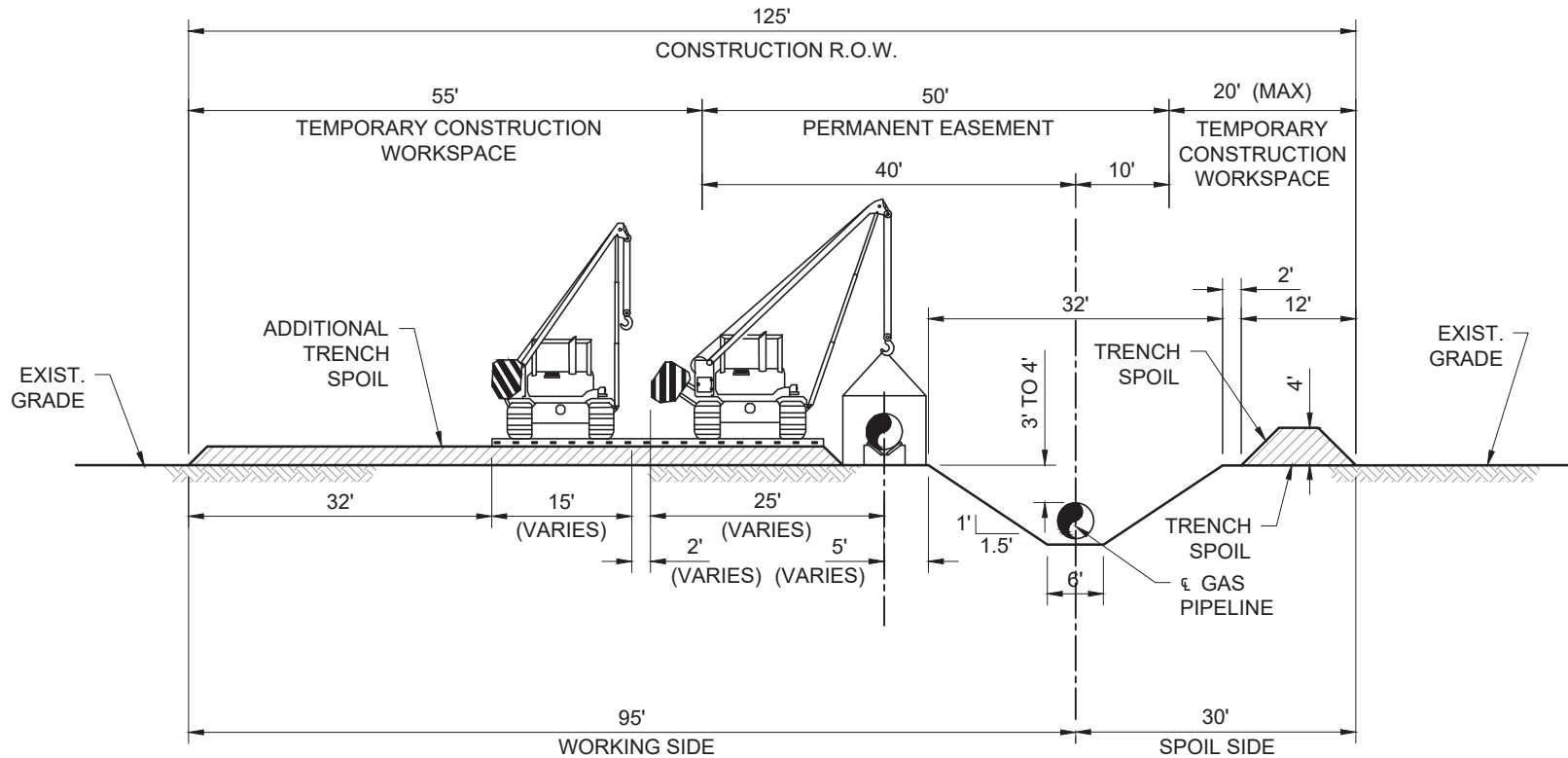
1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
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5. FULL RIGHT-OF-WAY TOPSOILING WILL BE CONDUCTED PER LANDOWNER REQUEST AND IN COMPLIANCE WITH THE FFRC UPLAND MAINTENANCE PLAN.
6. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.
7. TOPSOIL SHALL BE SEGREGATED ON WORKING SIDE IN AGRICULTURAL AREAS.
8. MATS CAN BE USED AS AN ALTERNATIVE TO FULL RIGHT OF WAY TOPSOILING.

			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0009						SEMPRA LNG LA STORAGE PROJECT TYPICAL CONVENTIONAL CONSTRUCTION RIGHT-OF-WAY NON-SATURATED WETLAND SINGLE 16" BRINE PIPELINE	
SHEET NO: 46		OF 62								
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										
REV. NO: D    REV. DATE: 01/06/2021    REV. BY: SJS										

		<b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 107 Global Circle, Lafayette, LA 70503 (337) 735-2800 - tbsmith.com	
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### PROFILE

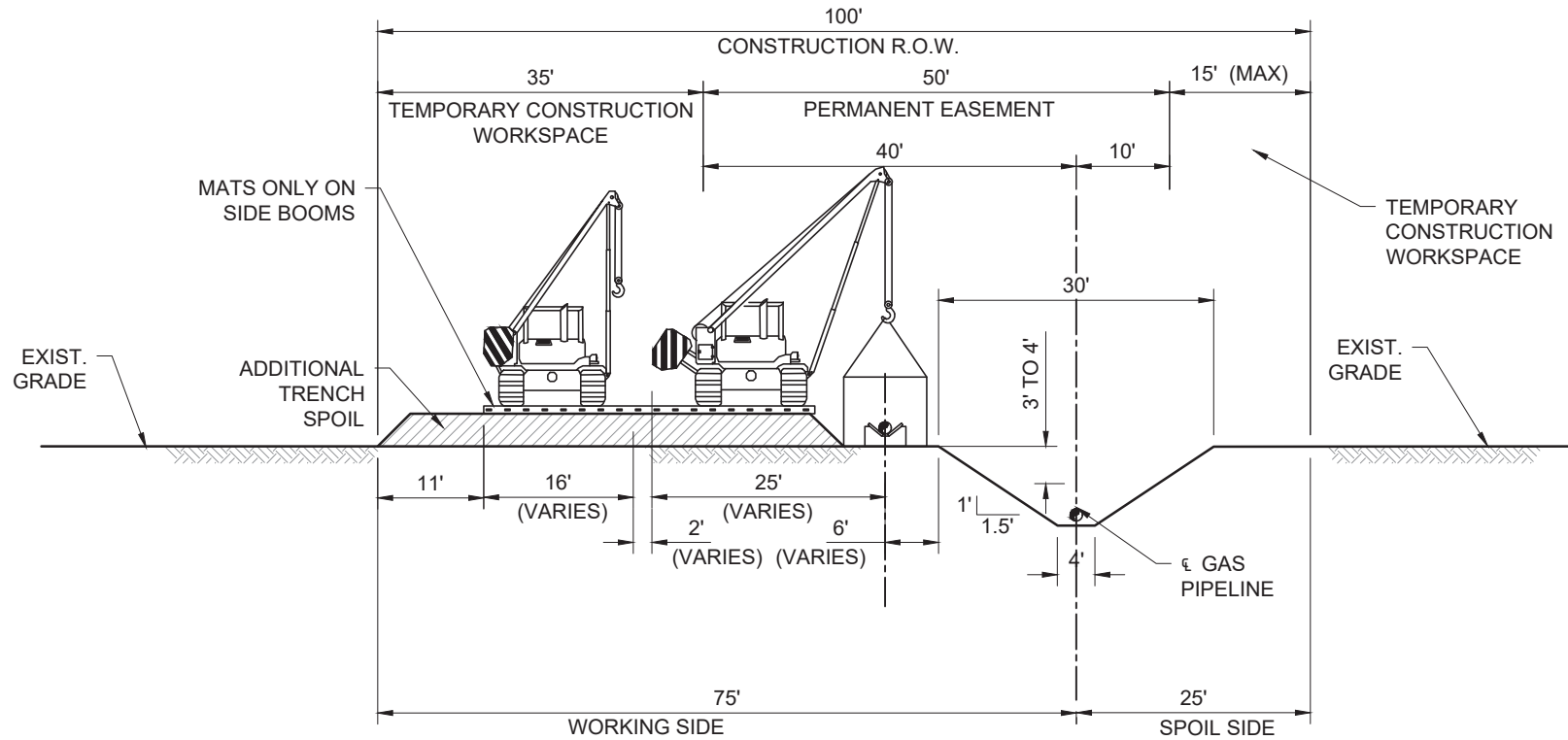
SCALE: N.T.S.

#### NOTES:

1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
4. FOREIGN PIPELINE LOCATIONS AND DEPTHS TO BE DETERMINED IN ADVANCE OF PIPELINE CONSTRUCTION.
5. PIPE TO BE CONCRETE COATED FOR BUOYANCY CONTROL IN ACCORANCES WITH DRAWINGS, IF REQUIRED.
6. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.

<div><div><div>T. BAKER SMITH</div><div>A CENTURY OF SOLUTIONS</div><div>107 Global Circle, Lafayette, LA 70503</div><div>(337) 735-2800 - tbsmith.com</div></div></div>			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453		<div>SEMPRA LNG</div> <div>LA STORAGE PROJECT</div> <div>TYPICAL CONVENTIONAL CONSTRUCTION RIGHT-OF-WAY</div> <div>SATURATED WETLANDS</div> <div>SINGLE 42" NATURAL GAS PIPELINE</div>			
			DRAWING NAME: 2020.0453-WS-0011							
			SHEET NO: 47		OF 62					
			PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET							
			REVISION DESCRIPTION: CLIENT FEEDBACK							
REV. NO: D	REV. DATE: 01/06/2021	REV. BY: SJS								


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NOTES:

1. CLEARANCES DESIGNED FOR SIDE BOOM PIPELAYER.
2. PIPE DEPTHS REFERENCED ON ALIGNMENT SHEETS.
3. THIS CONSTRUCTION METHOD APPLIES TO FORWARD AND REVERSE PIPELINE LAY.
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6. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.

PROFILE  
SCALE: N.T.S.

<div><div><b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 107 Global Circle, Lafayette, LA 70503 (337) 735-2800 - tbsmith.com</div></div>			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453		SEMPRA LNG TYPICAL CONVENTIONAL CONSTRUCTION RIGHT-OF-WAY SATURATED WETLAND SINGLE 16" BRINE PIPELINE			
			DRAWING NAME: 2020.0453-WS-0012							
<div>REV. NO: D</div> <div>REV. DATE: 01/06/2021</div> <div>REV. BY: SJS</div>			SHEET NO: 48		OF 62					
			PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET							
			REVISION DESCRIPTION: CLIENT FEEDBACK							






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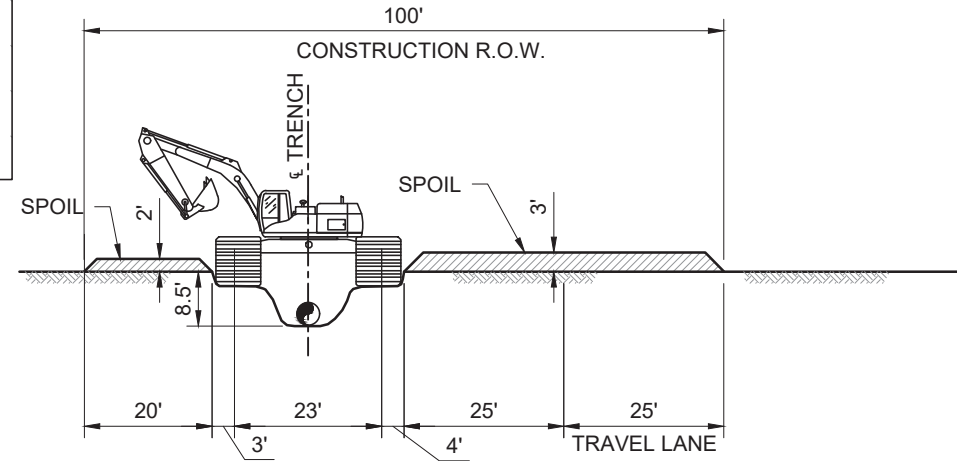
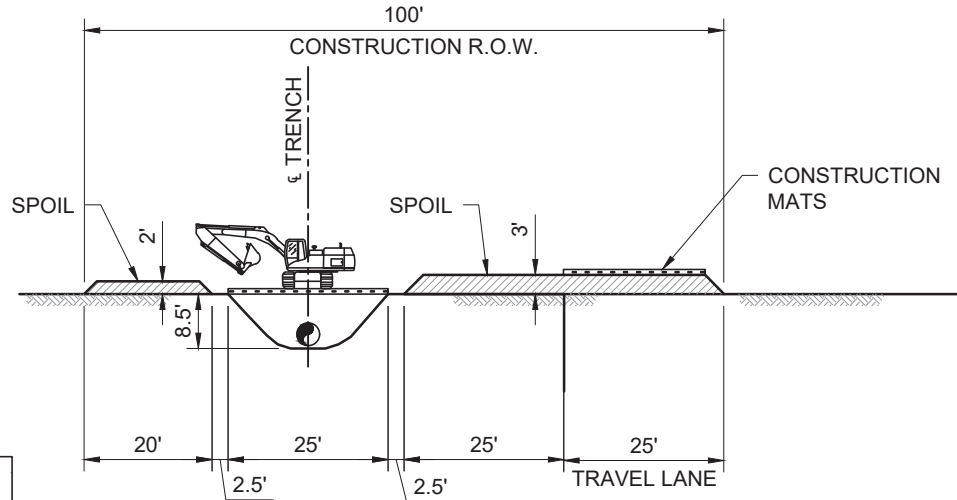
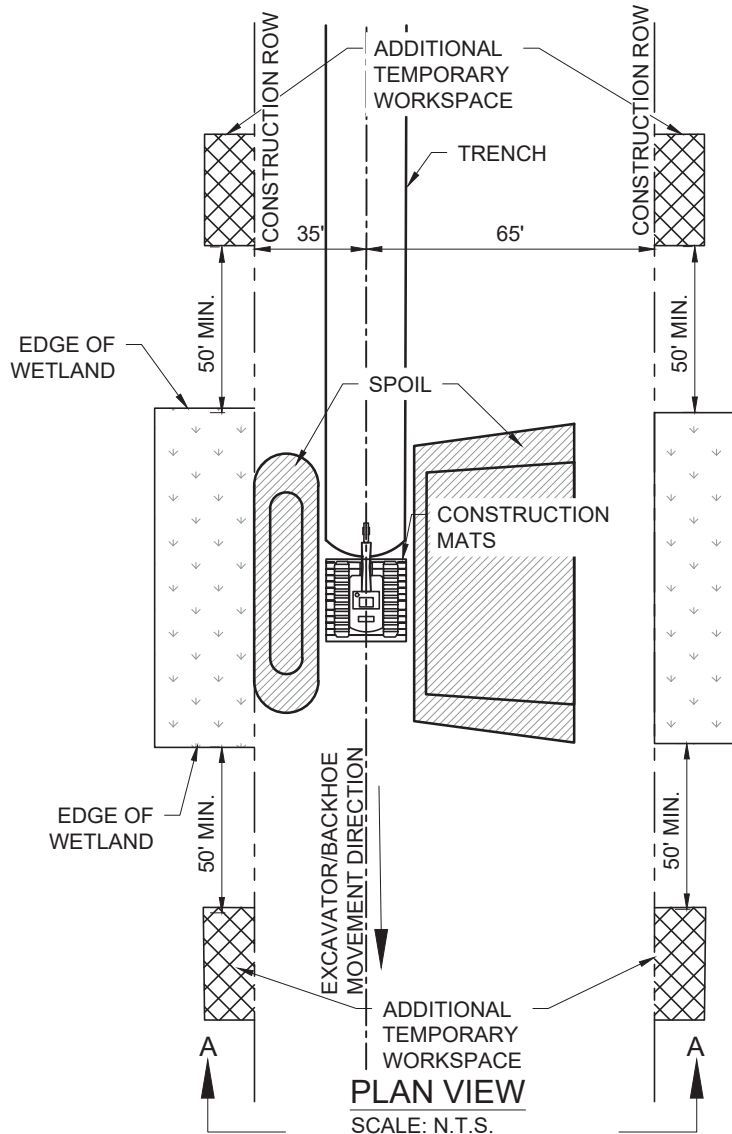
**NOTES:**

1. FLAG WETLAND BOUNDARIES (PRIOR TO CLEANING) AND VEGETATIVE BUFFER ZONE.
2. NO REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND OR WITHIN 500 FEET OF THE WETLAND ON BLM LANDS. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY, OR 500 FEET FROM THE WETLAND ON BLM LANDS. REFUEL STATIONARY EQUIPMENT AS PER THE PROJECT'S SPILL PREVENTION PROCEDURES.
3. INSTALL TEMPORARY SLOPE BREAKER UPSLOPE WITHIN 100 FEET OF WETLAND BOUNARY AS DIRECTED BY COMPANY.
4. RESTRICT ROOT GRUBBING TO ONLY THE AREA OVER THE DITCHLINE.
5. TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS.
6. UTILIZE AMPHIBIOUS EXCAVATORS (PONTON MOUNTED BACKHOES) OR TRACKED BACKHOES SUPPORTED BY FABRICATED TIMBER MATS OR FLOATS TO EXCAVATE TRENCH. IF FABRICATED TIMBER MATS ARE USED FOR STABILIZATION, THE BACKHOE SHALL GRADUALLY MOVE ACROSS THE WETLAND/N.F. WATER BODY BY MOVING THE MAT FROM IMMEDIATELY BEHIND TO IMMEDIATELY IN FRONT OF THE BACKHOE'S PATH.
7. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT EDGE OR R.O.W., IF PRACTICAL.
8. FABRICATE PIPE IN STAGING AREA IN THE EXTRA WORK SPACE AS INDICATED ON THE CONSTRUCTION DRAWINGS.
9. LEAVE HARD PLUGS AT THE EDGE OF THE WETLAND UNTIL JUST PRIOR TO PIPE PLACEMENT.
10. FLOAT PIPE IN PLACE, LOWER-IN INSTALL TRENCH PLUGS AT WETLAND EDGES WHERE REQUIRED AND BACKFILL IMMEDIATELY.
11. REMOVE TIMBER MATS OR PREFABRICATED MATS OF NON-NATIVE MATERIAL FROM WETLANDS UPON COMPLETION.
12. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY AND INSTALL PERMANENT EROSION CONTROL.
13. PIPE TO BE CONCRETE COATED FOR BUOYANCY CONTROL IF NECESSARY.
14. TRENCH WIDTH VARIES DUE TO SOIL SLUFFING/SILTING. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.
15. UPLAND AND NON-SATURATED WETLANDS SHALL MAINTAIN SEGREGATION BETWEEN OF TOP SOIL AND TRENCH SOIL. SEGREGATION OF SOILS DOES NOT APPLY TO SATURATED WETLANDS.


			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0014_				SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY UPLAND / NON-SATURATED WETLAND SINGLE 42" NATURAL GAS PIPELINE			
SHEET NO: 50		OF 62								
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS						

			
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			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES			
			DATE: 08/04/20		JOB NO: 2020.0453					
			DRAWING NAME: 2020.0453-WS-0016						SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY SATURATED WETLAND SINGLE 42" NATURAL GAS PIPELINE	
SHEET NO: 51 OF 62										
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REVISION DESCRIPTION: CLIENT FEEDBACK										


			REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS	
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**NOTES:**

1. FLAG WETLAND BOUNDARIES (PRIOR TO CLEANING) AND VEGETATIVE BUFFER ZONE.
2. NO REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND OR WITHIN 500 FEET OF THE WETLAND ON BLM LANDS. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY, OR 500 FEET FROM THE WETLAND ON BLM LANDS. REFUEL STATIONARY EQUIPMENT AS PER THE PROJECT'S SPILL PREVENTION PROCEDURES.
3. INSTALL TEMPORARY SLOPE BREAKER UPSLOPE WITHIN 100 FEET OF WETLAND BOUNARY AS DIRECTED BY COMPANY.
4. RESTRICT ROOT GRUBBING TO ONLY THE AREA OVER THE DITCHLINE.
5. TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS.
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7. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT EDGE OR R.O.W., IF PRACTICAL.
8. FABRICATE PIPE IN STAGING AREA IN THE EXTRA WORK SPACE AS INDICATED ON THE CONSTRUCTION DRAWINGS.
9. LEAVE HARD PLUGS AT THE EDGE OF THE WETLAND UNTIL JUST PRIOR TO PIPE PLACEMENT.
10. FLOAT PIPE IN PLACE, LOWER-IN INSTALL TRENCH PLUGS AT WETLAND EDGES WHERE REQUIRED AND BACKFILL IMMEDIATELY.
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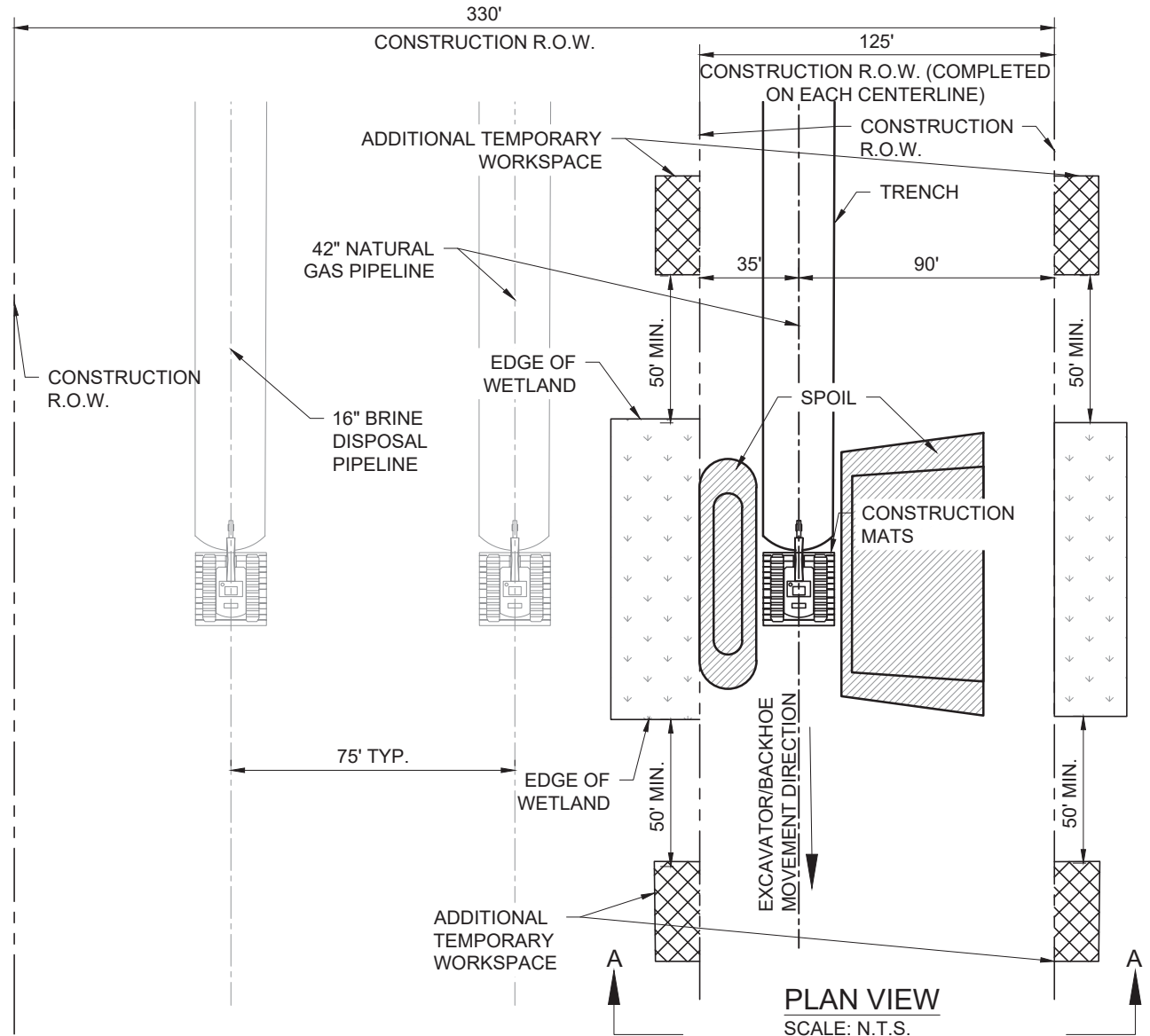
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			DATE: 08/04/20		JOB NO: 2020.0453							
			DRAWING NAME: 2020.0453-WS-0016_				SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY SATURATED WETLAND SINGLE 42" NATURAL GAS PIPELINE					
SHEET NO: 52		OF 62										
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET												
REVISION DESCRIPTION: CLIENT FEEDBACK												
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS								

					
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**NOTES:**

1. FLAG WETLAND BOUNDARIES (PRIOR TO CLEANING) AND VEGETATIVE BUFFER ZONE.
2. NO REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND OR WITHIN 500 FEET OF THE WETLAND ON BLM LANDS. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY, OR 500 FEET FROM THE WETLAND ON BLM LANDS. REFUEL STATIONARY EQUIPMENT AS PER THE PROJECT'S SPILL PREVENTION PROCEDURES.
3. INSTALL TEMPORARY SLOPE BREAKER UPSLOPE WITHIN 100 FEET OF WETLAND BOUNDARY AS DIRECTED BY COMPANY.
4. RESTRICT ROOT GRUBBING TO ONLY THE AREA OVER THE DITCHLINE.
5. TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS.
6. UTILIZE AMPHIBIOUS EXCAVATORS (PONTOON MOUNTED BACKHOES) OR TRACKED BACKHOES SUPPORTED BY FABRICATED TIMBER MATS OR FLOATS TO EXCAVATE TRENCH. IF FABRICATED TIMBER MATS ARE USED FOR STABILIZATION, THE BACKHOE SHALL GRADUALLY MOVE ACROSS THE WETLAND/N.F. WATER BODY BY MOVING THE MAT FROM IMMEDIATELY BEHIND TO IMMEDIATELY IN FRONT OF THE BACKHOE'S PATH.
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8. FABRICATE PIPE IN STAGING AREA IN THE EXTRA WORK SPACE AS INDICATED ON THE CONSTRUCTION DRAWINGS.
9. LEAVE HARD PLUGS AT THE EDGE OF THE WETLAND UNTIL JUST PRIOR TO PIPE PLACEMENT.
10. FLOAT PIPE IN PLACE, LOWER-IN INSTALL TRENCH PLUGS AT WETLAND EDGES WHERE REQUIRED AND BACKFILL IMMEDIATELY.
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15. UPLAND AND NON-SATURATED WETLANDS SHALL MAINTAIN SEGREGATION BETWEEN TOP SOIL AND TRENCH SOIL. SEGREGATION OF SOILS DOES NOT APPLY TO SATURATED WETLANDS.
16. 75-FOOT CENTERLINE SPACING WILL BE REQUIRED IN AREAS WHERE THE ROUTE IS LOCATED WITHIN A HISTORICAL DREDGED MATERIAL PLACEMENT AREA DUE TO VARIABLE SOIL TYPES OF DREDGED MATERIALS PLACED OVER THE YEARS. THE ADDITIONAL SPACING WILL ACCOUNT FOR UNKNOWN LATERAL RESISTANCE AND BEARING STRENGTH SETTLEMENT PROPERTIES OF THE SOIL TYPES.

**TYPICAL CONSTRUCTION WORKSPACES**

**SEMPRA LNG**  
**LA STORAGE PROJECT**  
**TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY**  
**SATURATED WETLAND**  
**TWO 42" NATURAL GAS PIPELINE AND ONE 16" BRINE PIPELINE**  
**75' SPACING**

DRAWN BY: LDE APPROVED BY: SJS

DATE: 08/04/20 JOB NO: 2020.0453

DRAWING NAME: 2020.0453-WS-0018

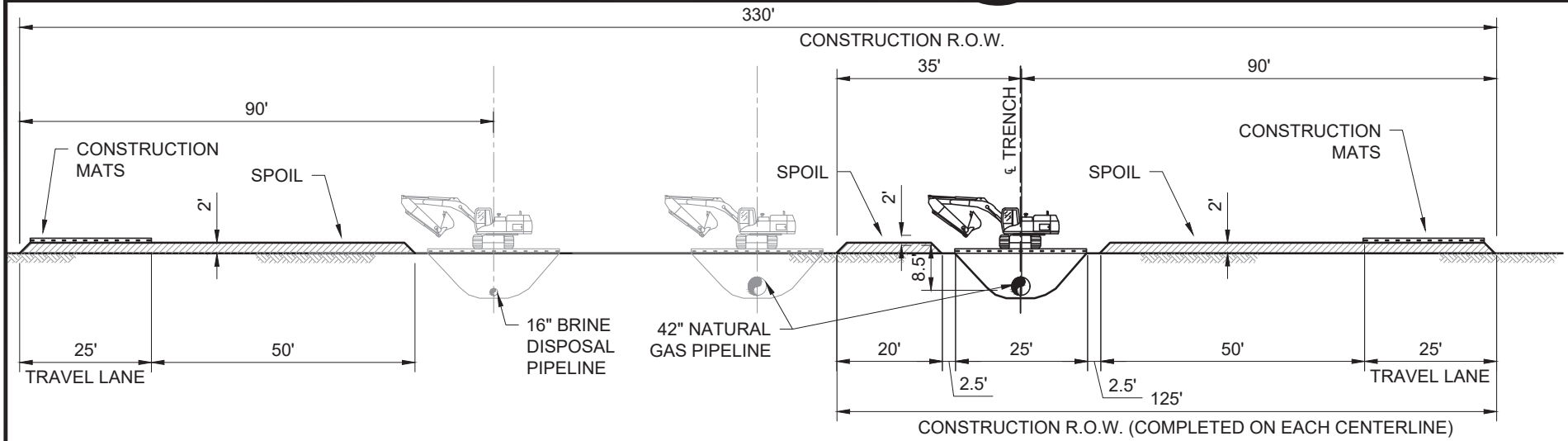
SHEET NO: 53 OF 62

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

 REVISION DESCRIPTION:  
 CLIENT FEEDBACK

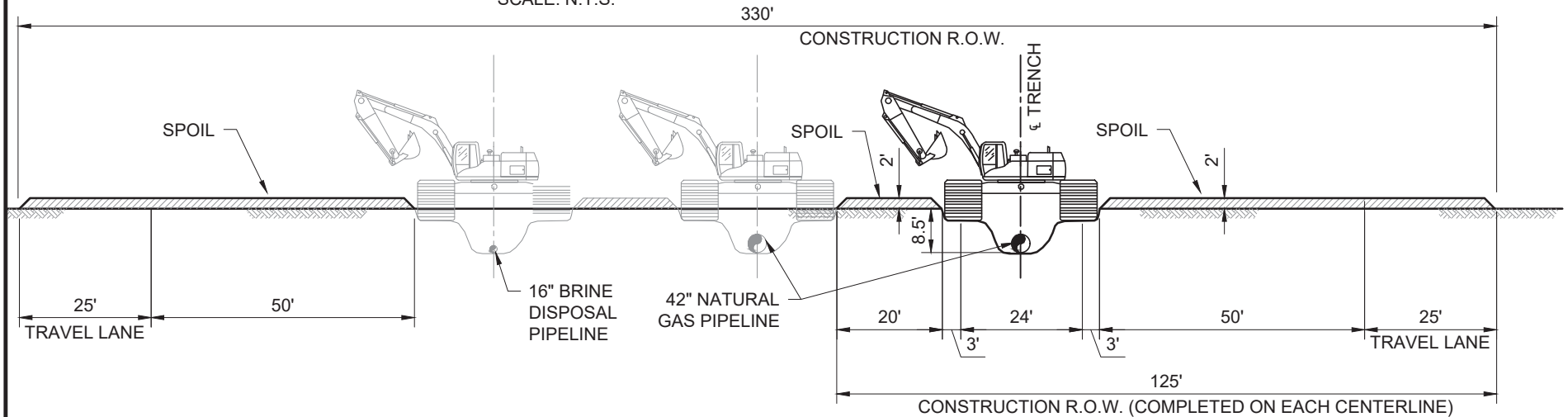

REV. NO: D REV. DATE: 01/06/2021 REV. BY: SJS

2/4/2021 - P:\Y-2020\2020.0423DWG\WORKSPACE DRAWING\TYPICAL R.O.W. CONSTRUCTION REV.D.DWG



**SECTION A-A: SUPPORTED TRACKED BACKHOE INSTALLATION**

SCALE: N.T.S.



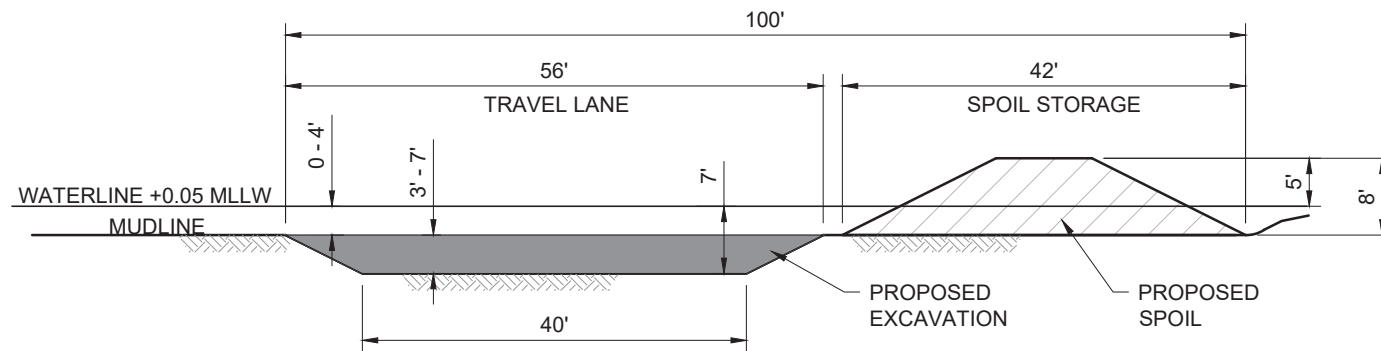
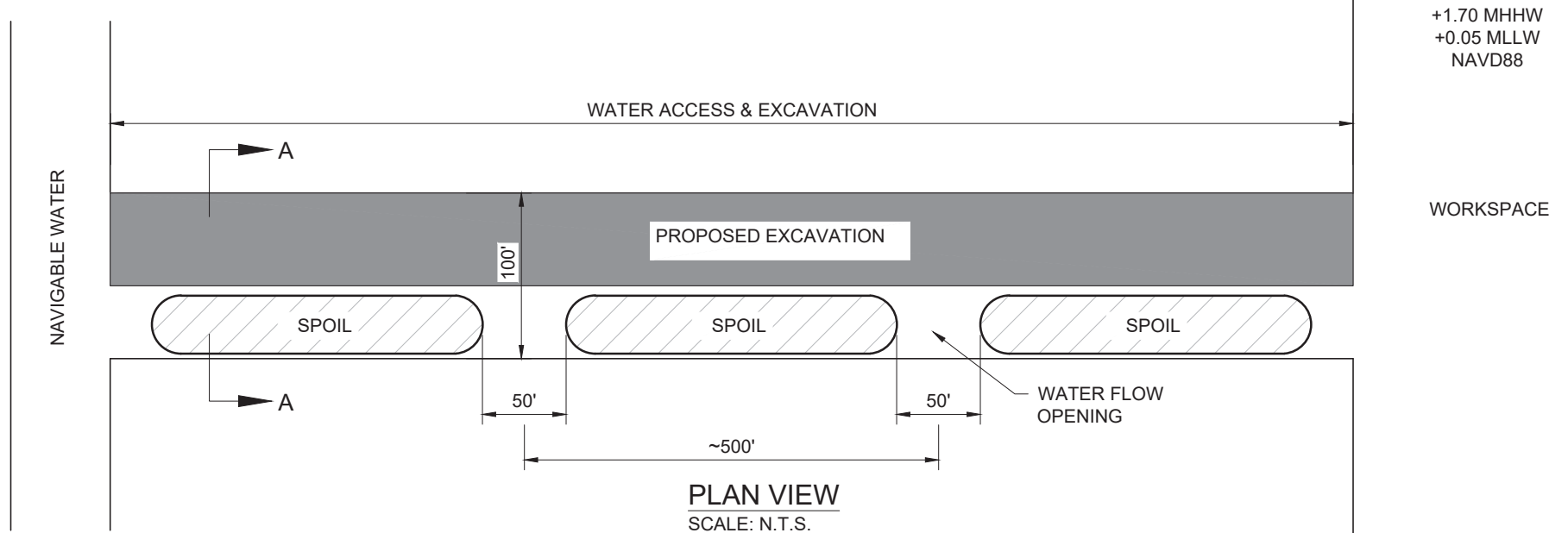
**SECTION A-A: AMPHIBIOUS EXCAVATOR INSTALLATION**

SCALE: N.T.S.


			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES				
			DATE: 08/04/20		JOB NO: 2020.0453						
			DRAWING NAME: 2020.0453-WS-0018_						SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY SATURATED WETLAND TWO 42" NATURAL GAS PIPELINE AND ONE 16" BRINE PIPELINE 75' SPACING		
SHEET NO: 54		OF 62									
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET											
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS		REVISION DESCRIPTION: CLIENT FEEDBACK					
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SECTION A-A: WATER ACCESS CHANNEL  
SCALE: N.T.S.

			DRAWN BY: LDE		APPROVED BY: SJS		WATER ACCESS AND EXCAVATION			
			DATE: 10/01/20		JOB NO: 2020.0453					
			DRAWING NAME:		2020.0453-WS-0029		SEMPRA LNG LA STORAGE PROJECT TYPICAL WATER ACCESS AND EXCAVATION PLAN SATURATED WETLAND			
SHEET NO: 55		OF 62								
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET										
REV. NO: E		REV. DATE: 11/11/2021		REV. BY: CMB		REVISION DESCRIPTION: CLIENT FEEDBACK				

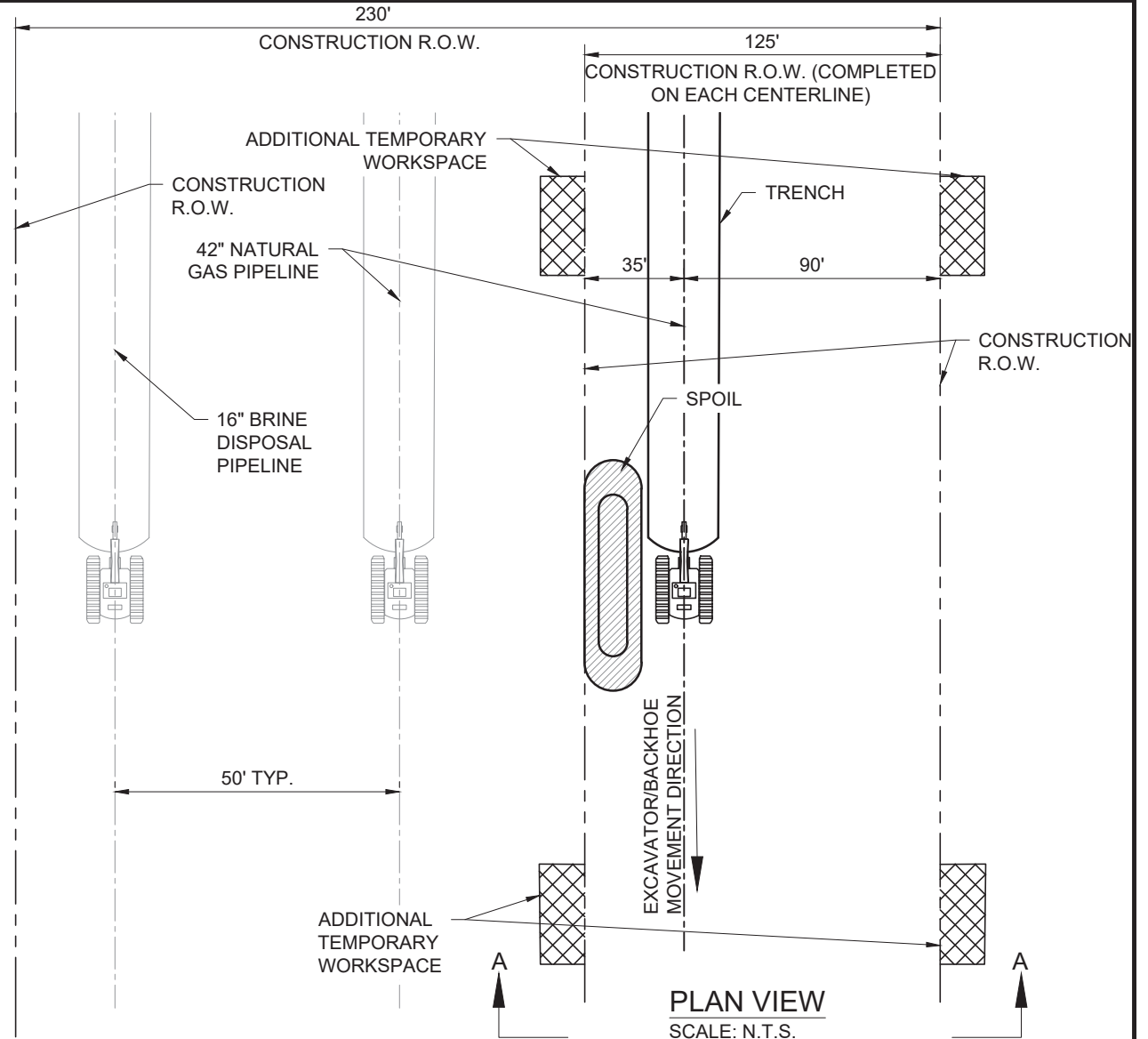





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#### NOTES:

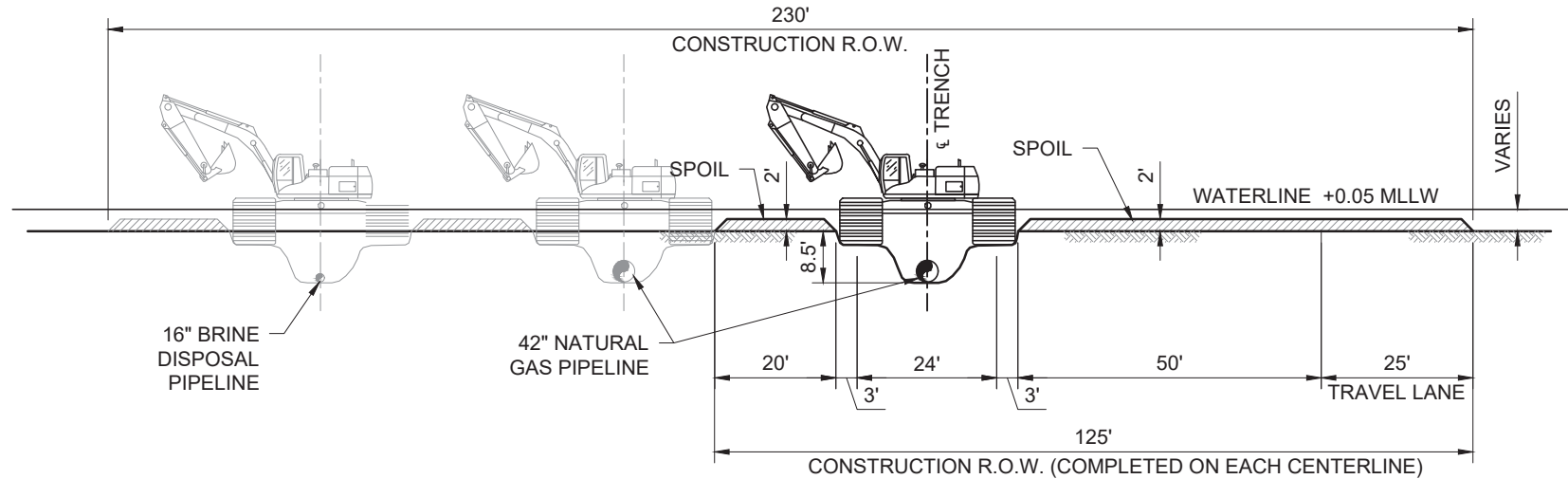
1. FLAG WETLAND BOUNDARIES (PRIOR TO CLEANING) AND VEGETATIVE BUFFER ZONE.
2. NO REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND OR WITHIN 500 FEET OF THE WETLAND ON BLM LANDS. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY, OR 500 FEET FROM THE WETLAND ON BLM LANDS. REFUEL STATIONARY EQUIPMENT AS PER THE PROJECT'S SPILL PREVENTION PROCEDURES.
3. INSTALL TEMPORARY SLOPE BREAKER UPSLOPE WITHIN 100 FEET OF WETLAND BOUNDARY AS DIRECTED BY COMPANY.
4. RESTRICT ROOT GRUBBING TO ONLY THE AREA OVER THE DITCHLINE.
5. TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS.
6. UTILIZE AMPHIBIOUS EXCAVATORS (PONTOON MOUNTED BACKHOES) OR TRACKED BACKHOES SUPPORTED BY FABRICATED TIMBER MATS OR FLOATS TO EXCAVATE TRENCH. IF FABRICATED TIMBER MATS ARE USED FOR STABILIZATION, THE BACKHOE SHALL GRADUALLY MOVE ACROSS THE WETLAND/N.F. WATER BODY BY MOVING THE MAT FROM IMMEDIATELY BEHIND TO IMMEDIATELY IN FRONT OF THE BACKHOE'S PATH.
7. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT EDGE OR R.O.W., IF PRACTICAL.
8. FABRICATE PIPE IN STAGING AREA IN THE EXTRA WORK SPACE AS INDICATED ON THE CONSTRUCTION DRAWINGS.
9. LEAVE HARD PLUGS AT THE EDGE OF THE WETLAND UNTIL JUST PRIOR TO PIPE PLACEMENT.
10. FLOAT PIPE IN PLACE, LOWER-IN INSTALL TRENCH PLUGS AT WETLAND EDGES WHERE REQUIRED AND BACKFILL IMMEDIATELY.
11. REMOVE TIMBER MATS OR PREFABRICATED MATS OF NON-NATIVE MATERIAL FROM WETLANDS UPON COMPLETION.
12. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY AND INSTALL PERMANENT EROSION CONTROL.
13. PIPE TO BE CONCRETE COATED FOR BUOYANCY CONTROL IF NECESSARY.
14. TRENCH WIDTH VARIES DUE TO SOIL SLUFFING/SILTING. TRENCH DIMENSIONS ARE ASSUMED BASED ON OSHA TYPE C SOIL SLOPE REQUIREMENTS.
15. DEPENDING ON WATER DEPTH, AN AMPHIBIOUS TRACK MOUNT EXCAVATOR OR BARGE MOUNT EXCAVATOR WILL BE USED.




<div><b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 107 Global Circle, Lafayette, LA 70503 (337) 735-2800 - tbsmith.com</div>			DRAWN BY: LDE		APPROVED BY: SJS		TYPICAL CONSTRUCTION WORKSPACES					
			DATE: 08/04/20		JOB NO: 2020.0453							
			DRAWING NAME: 2020.0453-WS-0038						SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY OPEN WATER TWO 42" NATURAL GAS PIPELINE AND ONE 16" BRINE PIPELINE 50' SPACING			
			SHEET NO: 57 OF 62									
PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET												
REVISION DESCRIPTION: CLIENT FEEDBACK												
REV. NO: D		REV. DATE: 01/06/2021		REV. BY: SJS								

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+1.70 MHHW  
+0.05 MLLW  
NAVD88

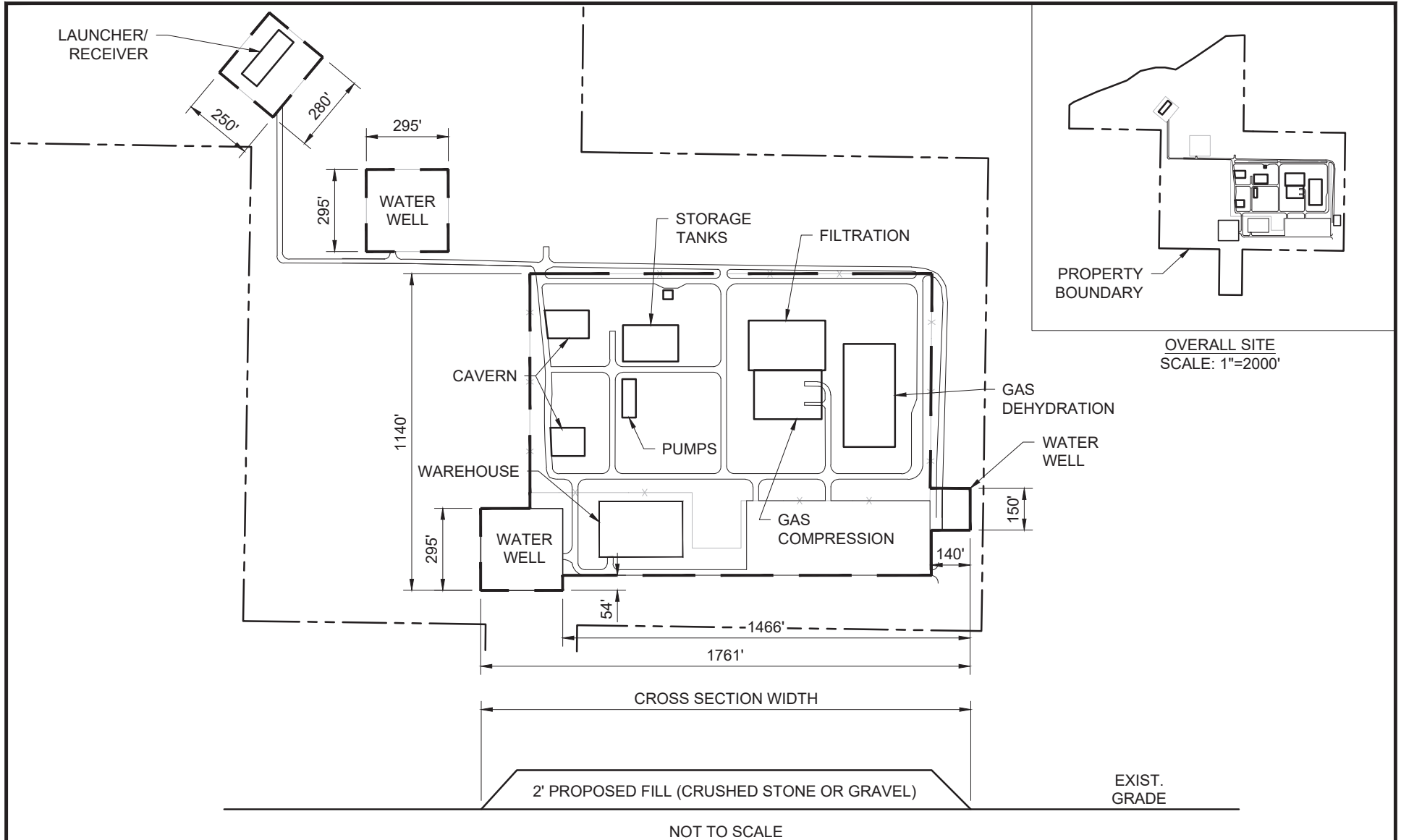


**SECTION A-A: AMPHIBIOUS EXCAVATOR INSTALLATION**  
SCALE: N.T.S.

 <b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 107 Global Circle, Lafayette, LA 70503 (337) 735-2800 - tbsmith.com			DRAWN BY: LDE	APPROVED BY: SJS	TYPICAL CONSTRUCTION WORKSPACES	
			DATE: 08/04/20	JOB NO: 2020.0453		
			DRAWING NAME: 2020.0453-WS-0038_		SEMPRA LNG LA STORAGE PROJECT TYPICAL PUSH PULL CONSTRUCTION RIGHT-OF-WAY OPEN WATER TWO 42" NATURAL GAS PIPELINE AND ONE 16" BRINE PIPELINE 50' SPACING	
			SHEET NO: 58	OF 62		
REV. NO: E    REV. DATE: 11/11/2021    REV. BY: CMB			PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
			REVISION DESCRIPTION: CLIENT FEEDBACK			

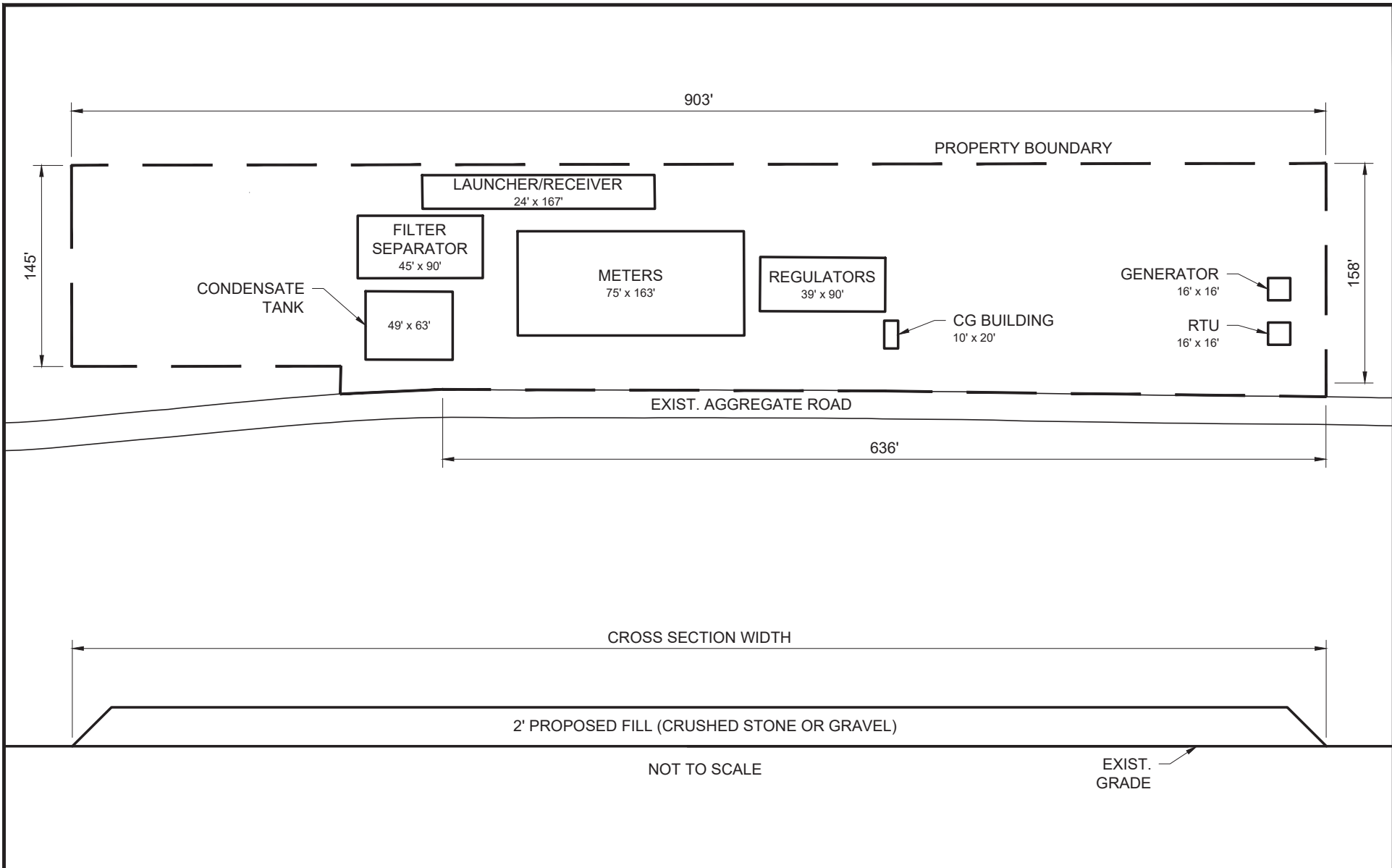


2/4/2021 - P:\Y-2020\2020.0423\DWG\WORKSPACE DRAWINGS\2020.0453-L-0039 REV A LAS COMPRESSOR STATION PLAN AND PROFILE.DWG



<p>SCALE: 1" = 500'</p> <p>500' 250' 0' 500'</p> <p><b>T. BAKER SMITH</b> A CENTURY OF SOLUTIONS 107 Global Circle, Lafayette, LA 70503 (337) 735-2800 - tbsmith.com</p>		DRAWN BY: LDE	APPROVED BY: SJS	PLAN AND PROFILE	
		DATE: 11/09/20	JOB NO: 2020.0453	SEMPRA LNG LA STORAGE PROJECT LAS COMPRESSOR STATION	
REV. NO: A		REV. DATE: 11/09/20	REV. BY: SJS	DRAWING NAME: 2020.0453-L-0039 REV A	
		SHEET NO: 59 OF 62			
		PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET			
		REVISION DESCRIPTION: INITIAL DRAFT			

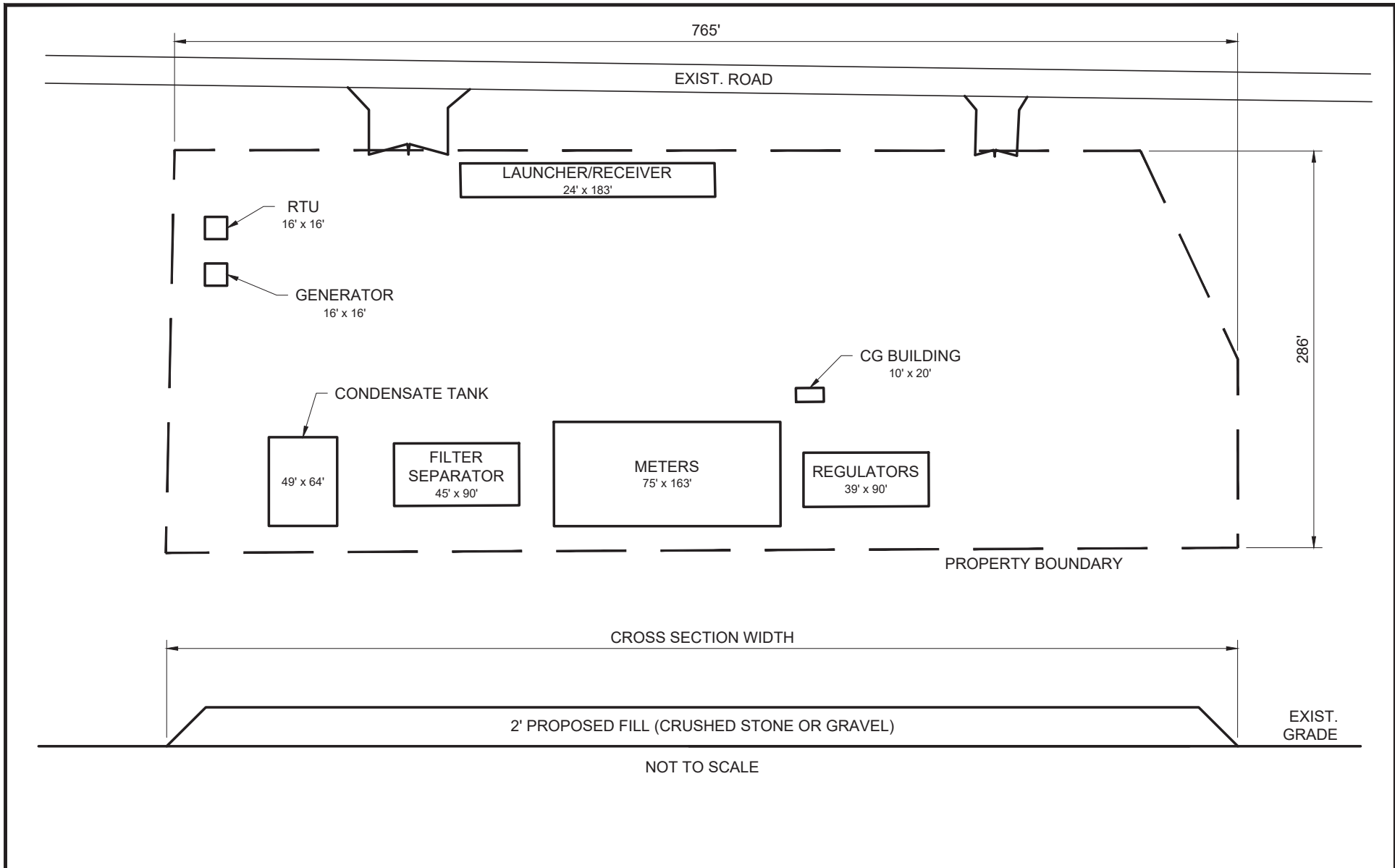
11/12/2021 - P:\Y-2020\2020.0453\FACILITIES ENGINEERING GROUP\05\_DRAWINGS\INTERNALLY PRODUCED\01\_PLAN AND PROFILE\2020.0453-L-0040 REV C LAS METER STATION CIP PLAN AND PROFILE



<div>SCALE: 1" = 100'</div> <div><div></div><div>100'</div><div>50'</div><div>0'</div><div>100'</div></div>			<div>DRAWN BY: LDE</div> <div>DATE: 11/09/20</div> <div>DRAWING NAME: 2020.0453-L-0040-REV B</div> <div>SHEET NO: 60 OF 62</div> <div>PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET</div>		<div>PLAN AND PROFILE</div> <div>SEMPRA LNG LA STORAGE PROJECT LAS METER STATION CIP</div>			
<div><div><div></div><div>TBS</div></div><div><div>T. BAKER SMITH</div><div>A CENTURY OF SOLUTIONS</div><div>107 Global Circle, Lafayette, LA 70503</div><div>(337) 735-2800 - tbsmith.com</div></div></div>			<div>REVISION DESCRIPTION: CLIENT FEEDBACK</div>					
<div>REV. NO: C</div>	<div>REV. DATE: 11/11/2021</div>	<div>REV. BY: CMB</div>						



11/12/2021 - P:\Y-2020\2020.0453\FACILITIES ENGINEERING GROUP\05\_DRAWINGS\INTERNALLY PRODUCED\01\_PLAN AND PROFILE\2020.0453-L-0041 REV B LAS METER STATION PAPLC PLAN AND PROFILE



<div>SCALE: 1" = 100'</div> <div><div></div><div>100'</div><div>50'</div><div>0'</div><div>100'</div></div>			DRAWN BY: LDE		APPROVED BY: SJS		PLAN AND PROFILE			
			DATE: 11/09/20		JOB NO: 2020.0453					
<div><div><div></div><div>TBS</div></div><div><div>T. BAKER SMITH</div><div>A CENTURY OF SOLUTIONS</div><div>107 Global Circle, Lafayette, LA 70503</div><div>(337) 735-2800 - tbsmith.com</div></div></div>			DRAWING NAME: 2020.0453-L-0041 REV A				SEMPRA LNG LA STORAGE PROJECT LAS METER STATION PAPLC			
			SHEET NO: 61		OF 62					
			PROJECTION: PROJECTION GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET							
			REVISION DESCRIPTION: INITIAL DRAFT							
REV. NO: B		REV. DATE: 11/11/2021		REV. BY: CMB						

--- I:\TBS\LOCAL\IPANZURA\PROJECTS\Y-2020\2020.0423\DWG\IMPACT TABLE\UPDATED 3.2.21\20.0453\_IT\_REV1.DWG


Acres of Wetlands within OCM Jurisdiction Affected by the Hackberry Storage Project						
	Impact Type (Acres)				Total Acreage Requiring Mitigation	Total Impacted Acreage
	Temporary	Permanent	PFO/PSS Conversion	Previously Mitigated		
USACE New Orleans (Inside LA Coastal Zone)						
Wet Pasture	25.32	7.09	0.00	1.07	6.02	32.41
Fresh Marsh	0.00	0.03	0.00	0.00	0.03	0.03
Intermediate Marsh	52.61	0.61	0.00	0.00	0.61	53.22
Brackish Marsh	3.68	0.00	0.00	0.00	0.00	3.68
Scrub/Shrub Wetlands	7.68	0.00	1.10	0.00	1.10	8.78
Bottomland Hardwood Forest	0.00	0.00	0.00	0.00	0.00	0.00
Total	89.29	7.73	1.10	1.07	7.76	98.12

Note: As requested by OCM, the Chinese tallow dominated wetlands near Axel Nelson Road (CAL-WL-042, CAL-WL-039, CAL-WL-035) are classified as wet pasture in the table above.

Acres of Wetlands under USACE Jurisdiction Affected by the Hackberry Storage Project						
	Impact Type (Acres)				Total Acreage Requiring Mitigation	Total Impacted Acreage
	Temporary	Permanent	PFO/PSS Conversion	Previously Mitigated		
USACE New Orleans (Outside LA Coastal Zone)						
Wet Pasture	40.17	1.00	0.00	0.00	1.00	41.17
Fresh Marsh	0.05	0.00	0.00	0.00	0.00	0.05
Scrub Shrub Wetlands	0.00	0.00	0.00	0.00	0.00	0.00
Bottomland Hardwood Wetlands	0.90	0.00	0.38	0.00	1.28	1.28
USACE New Orleans (Inside LA Coastal Zone)						
Wet Pasture	21.86	7.21	0.00	1.07	6.14	29.07
Fresh Marsh	0.00	0.03	0.00	0.00	0.03	0.03
Intermediate Marsh	52.61	0.61	0.00	0.00	0.61	53.22
Brackish Marsh	3.68	0.00	0.00	0.00	0.00	3.68
Scrub/Shrub Wetlands	7.18	2.25	0.54	0.00	2.79	9.97
Bottomland Hardwood Forest	2.89	0.00	1.63	0.00	4.52	4.52
Total	129.33	11.10	2.55	1.07	16.37	142.98

Acres of Waters Affected by the Hackberry Storage Project		
	Impact Type (Acres)	
	Temporary	Permanent
<b>USACE New Orleans (Outside LA Coastal Zone)</b>	1.21	0.78
<b>USACE New Orleans (Inside LA Coastal Zone)</b>	164.77	0.22
<b>Total</b>	<b>165.98</b>	<b>1.00</b>

Rev: 03/02/2021

<div><div><div>T. BAKER SMITH</div><div>A CENTURY OF SOLUTIONS</div><div>107 Global Circle, Lafayette, LA 70503</div><div>(337)735-2800 ~ tbsmith.com</div></div></div>			DRAWN BY:    ADM		APPROVED BY:    ADM		TABLE  SEMPRA LNG  LA STORAGE PROJECT  WETLAND AND WATERS IMPACTS TABLE			
			DATE:            2/8/2021		JOB NO:            2020.0453					
			DRAWING NAME:							