

# JOINT PUBLIC NOTICE

**26 October 2020**

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch (ODR-E)  
7400 Leake Avenue  
New Orleans, Louisiana 70118

(504) 862-2279  
[angelle.v.greer@usace.army.mil](mailto:angelle.v.greer@usace.army.mil)  
Project Manager  
Angelle Greer  
Permit Application Number  
MVN-2019-01320-EG

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

(225) 219-3225  
Project Manager  
Elizabeth Hill  
WQC Application Number  
WQC# 201021-01

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).

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

## **COMPRESSOR STATION AND PIPELINE INSTALLATION** **IN ST. BERNARD AND PLAQUEMINES PARISHES**

**NAME OF APPLICANT:** Tennessee Gas Pipeline Company, LLC, c/o Cardno, Inc., Attn: Jason Lancaster, 3905 Crescent Park Drive, Riverview, FL 33578

**LOCATION OF WORK:** Centered at approximately Latitude: 29.852874, Longitude: -89.766730, and Latitude: 29.482039, Longitude: -89.775210, in St. Bernard and Plaquemines Parishes, Louisiana, as shown on the enclosed drawings.

Hydrologic Unit Code: 08090203 (Eastern Louisiana Coastal- Lake Pontchartrain) and 08090301 (East Central Louisiana Coastal- Barataria)

**CHARACTER OF WORK:** Excavation and placement of approximately 403,603-cubic yards of native earthen material, 69,462-cubic yards of hauled-in earthen fill material, and 50-cubic yards of rock for the installation and maintenance of two 36-inch natural gas looping pipelines and a 23,470-horsepower compressor station. Construction of the Yscloskey Toca Lateral Loop would total approximately 9-miles in length within St. Bernard Parish, and construction of the Grand Bayou Loop would total approximately 4-miles in length within Plaquemines Parish. The applicant proposes to compensate for unavoidable, permanent project-related impacts to 30.81-acres of jurisdictional wetlands through the purchase of wetland credits from a Corps' approved mitigation bank within the appropriate watersheds.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. **Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.**

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

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

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

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including

the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

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

The Federal Energy Regulatory Commission (FERC) is the lead federal agency for this proposed project. On behalf of FERC, Cardno has coordinated with the Louisiana State Historic Preservation Office (SHPO) regarding potential impacts to cultural resources. By letter dated 9 March 2020, the SHPO stated they concur with the assessment that no properties listed in or eligible for listing in the National Register of Historic Places within the area of potential effect will be affected by this project.

The Federal Energy Regulatory Commission (FERC) is the lead federal agency for this proposed project. On behalf of FERC, Cardno completed an Information & Planning Consultation for Endangered Species in Louisiana (IPaC) analysis through the U.S. Fish and Wildlife Service Ecological Services Office for the proposed project area. Based on the IPaC analysis, it has been determined that the activity will not likely adversely affect the West Indian Manatee. FERC also completed consultation with the National Marine Fisheries Service (NMFS) regarding potential project-related effects to the Green sea turtle, the Kemp's ridley sea turtle, the Loggerhead sea turtle, the Leatherback sea turtle, and the Hawksbill sea turtle. By letter dated 8 September 2020, NMFS stated that the project is expected to have no effect on the Leatherback or Hawksbill sea turtles, and is not likely to adversely affect the Green, Kemp's ridley, or Loggerhead sea turtles.

Our initial finding is that the proposed work is Not Likely to Adversely 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.

The Federal Energy Regulatory Commission (FERC) is the lead federal agency for this proposed project and has initiated Essential Fish Habitat (EFH) consultation with the National Marine Fisheries

Service for potential project-related effects to approximately 124.8-acres of EFH utilized by various life stages of red drum, snapper, cobia, and penaeid shrimp.

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

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

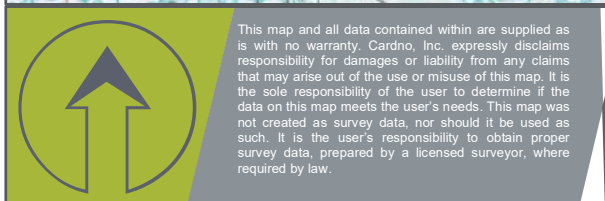
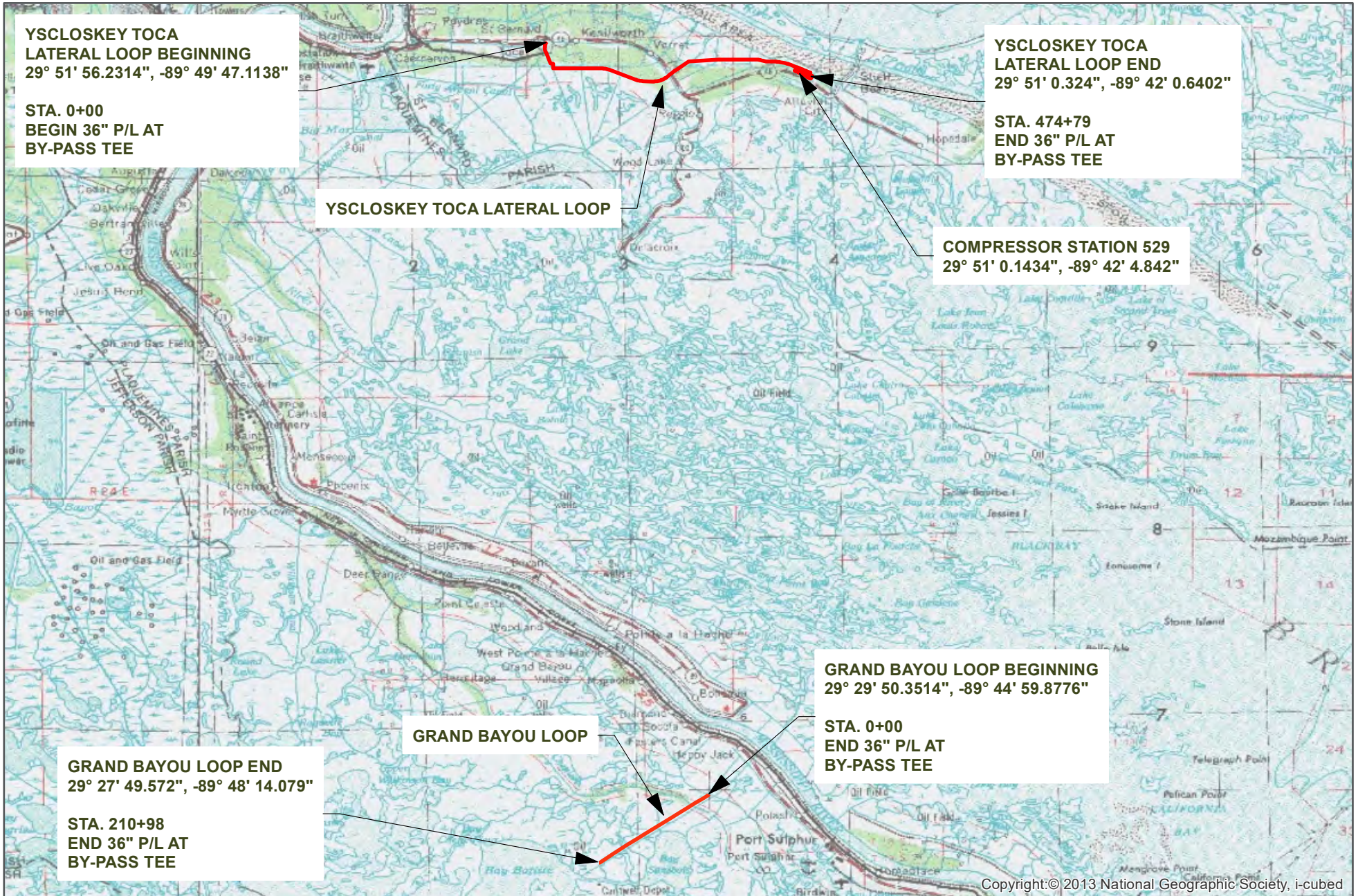
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver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

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

Michael V. Farabee  
Chief, Eastern Evaluation Section

Enclosure



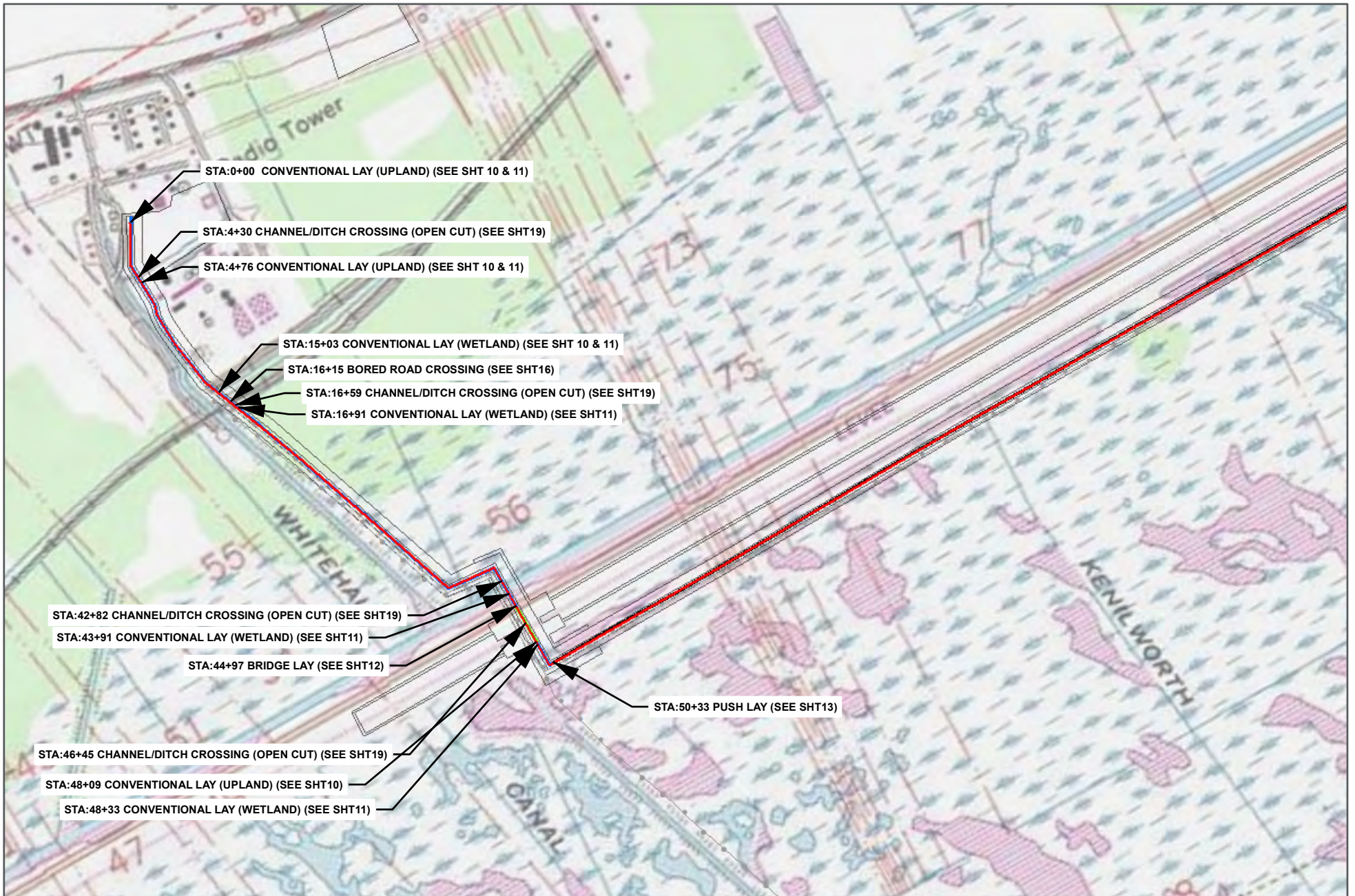


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**Vicinity Map**  
 Sheet 1  
 Evangeline Pass Expansion Project  
 St. Bernard & Plaquemines Parish, Louisiana







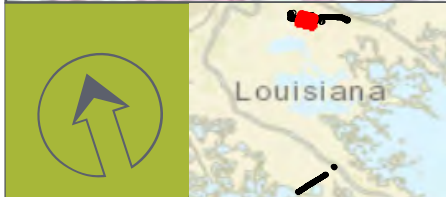
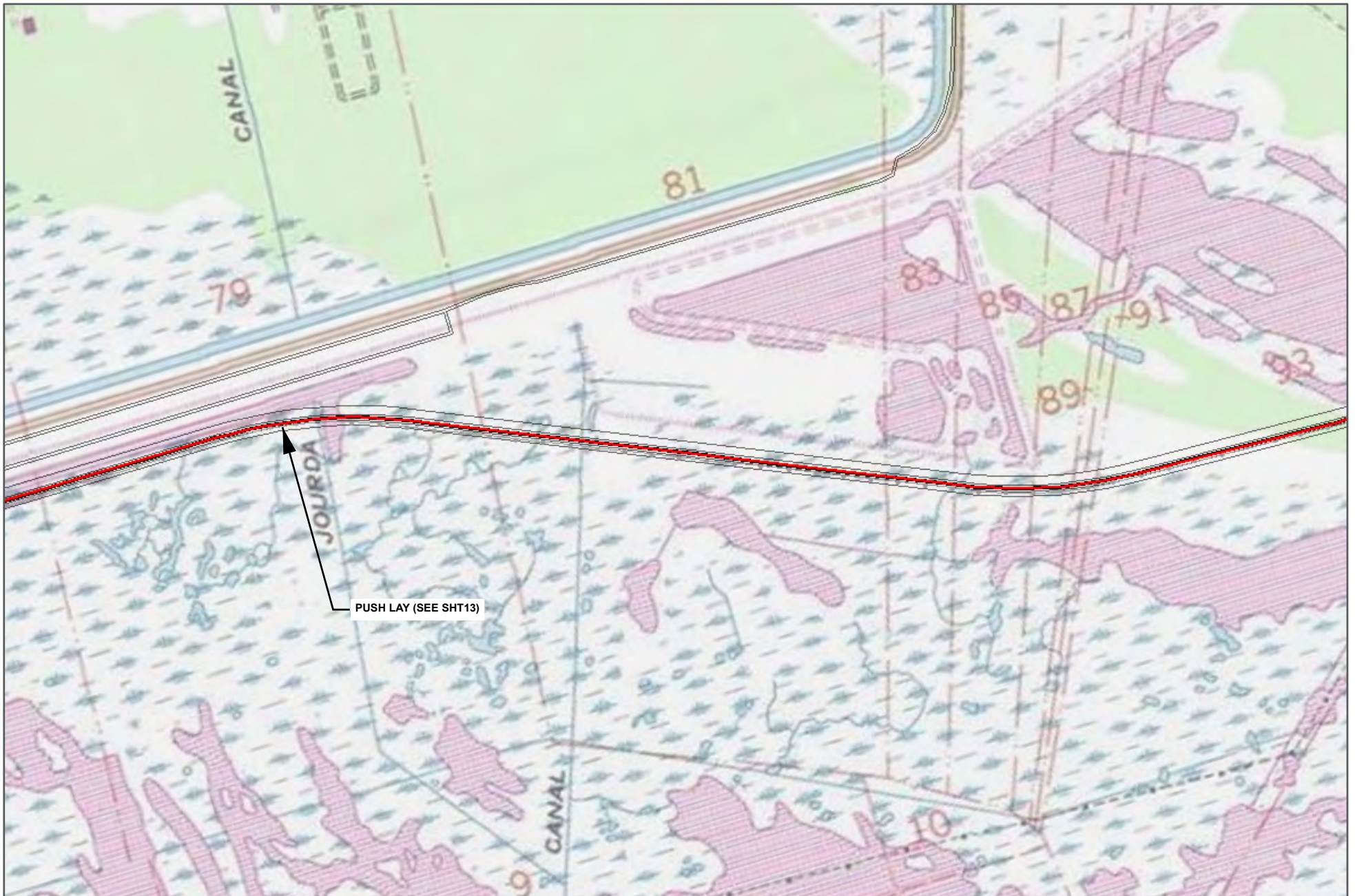
**Plan View**  
 Sheet 2  
**Evangeline Pass Expansion Project**  
**Plaquemines & St. Bernard Parish, Louisiana**



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







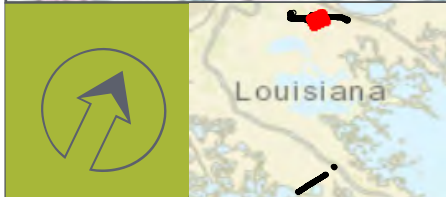
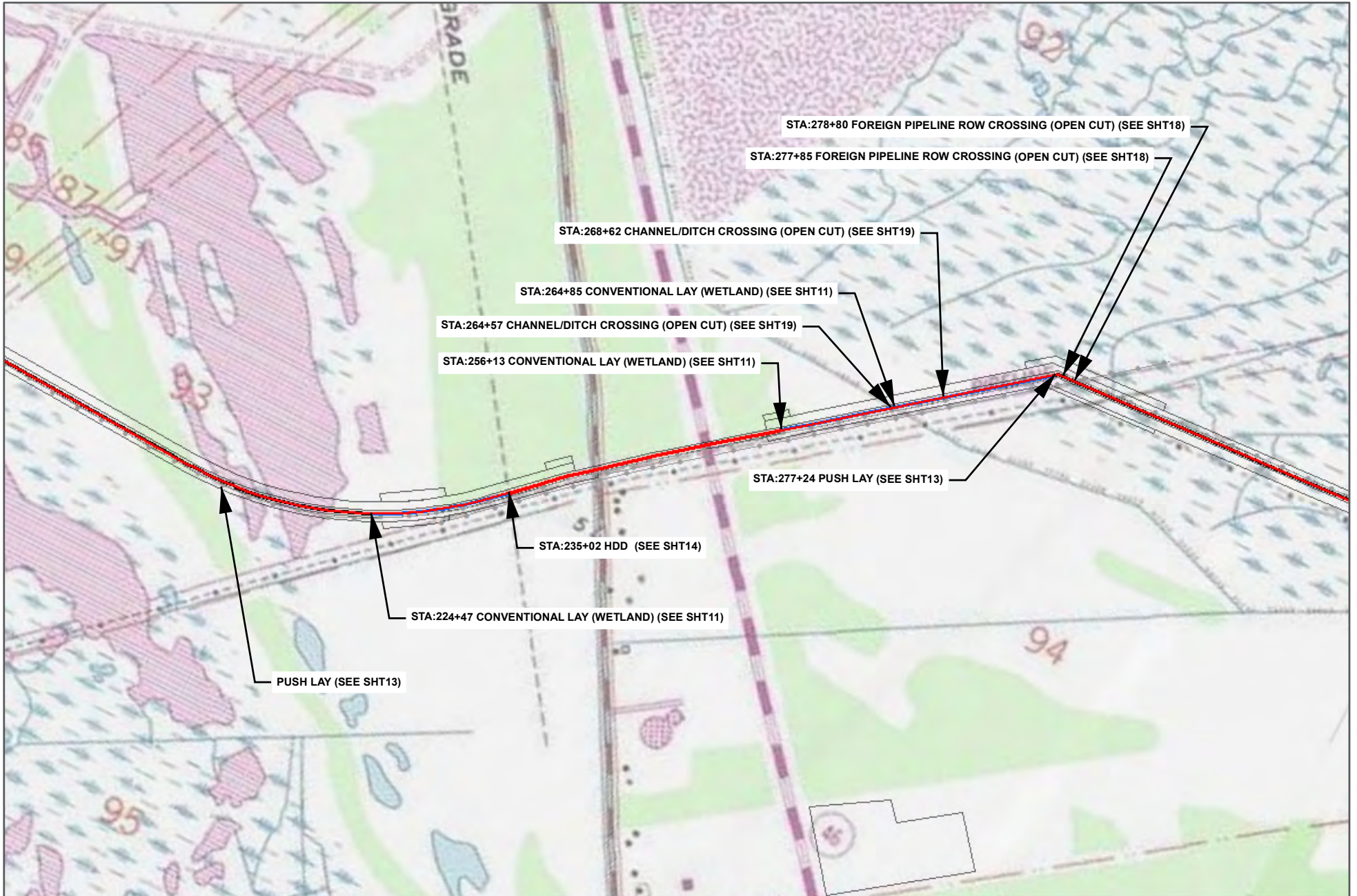
Plan View  
Sheet 3  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







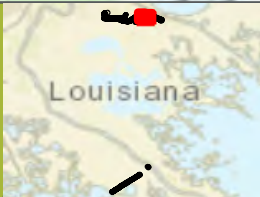
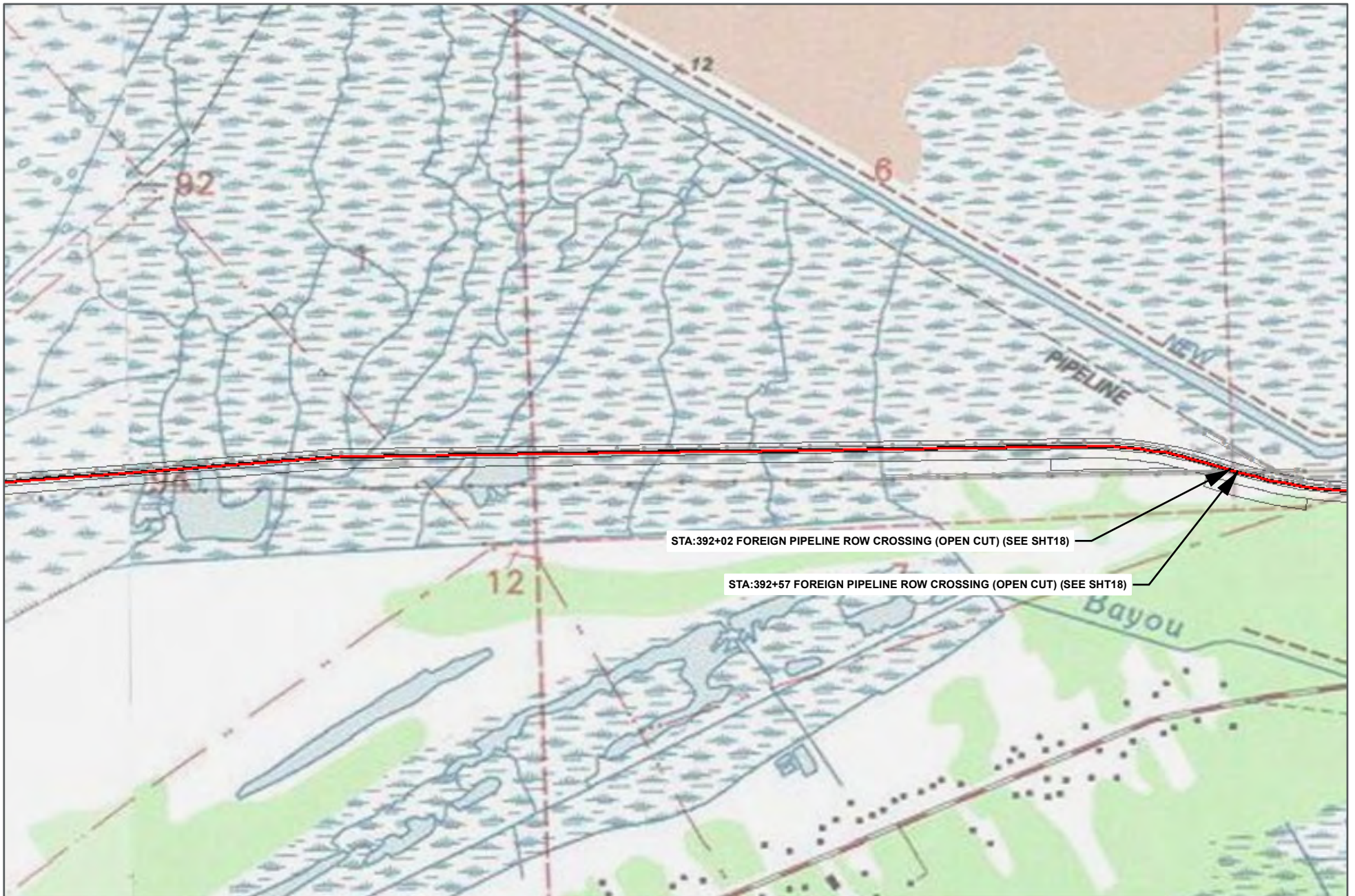
Plan View  
Sheet 4  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







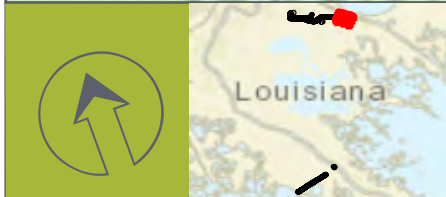
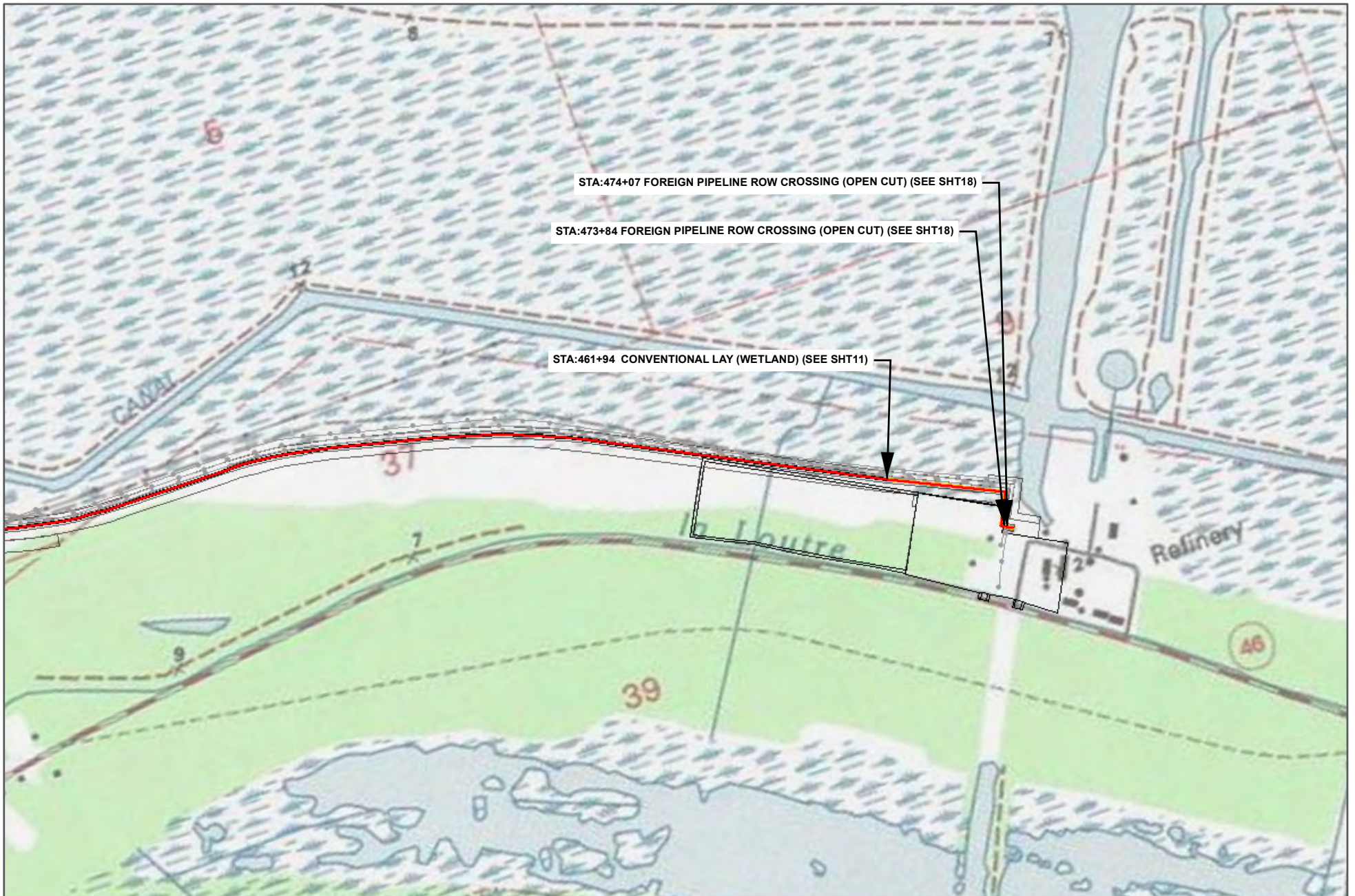
**Plan View**  
 Sheet 5  
**Evangeline Pass Expansion Project**  
**Plaquemines & St. Bernard Parish, Louisiana**



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







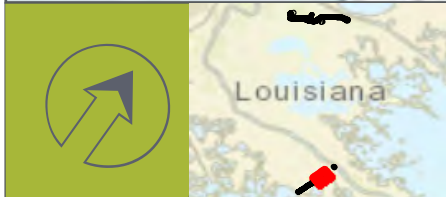
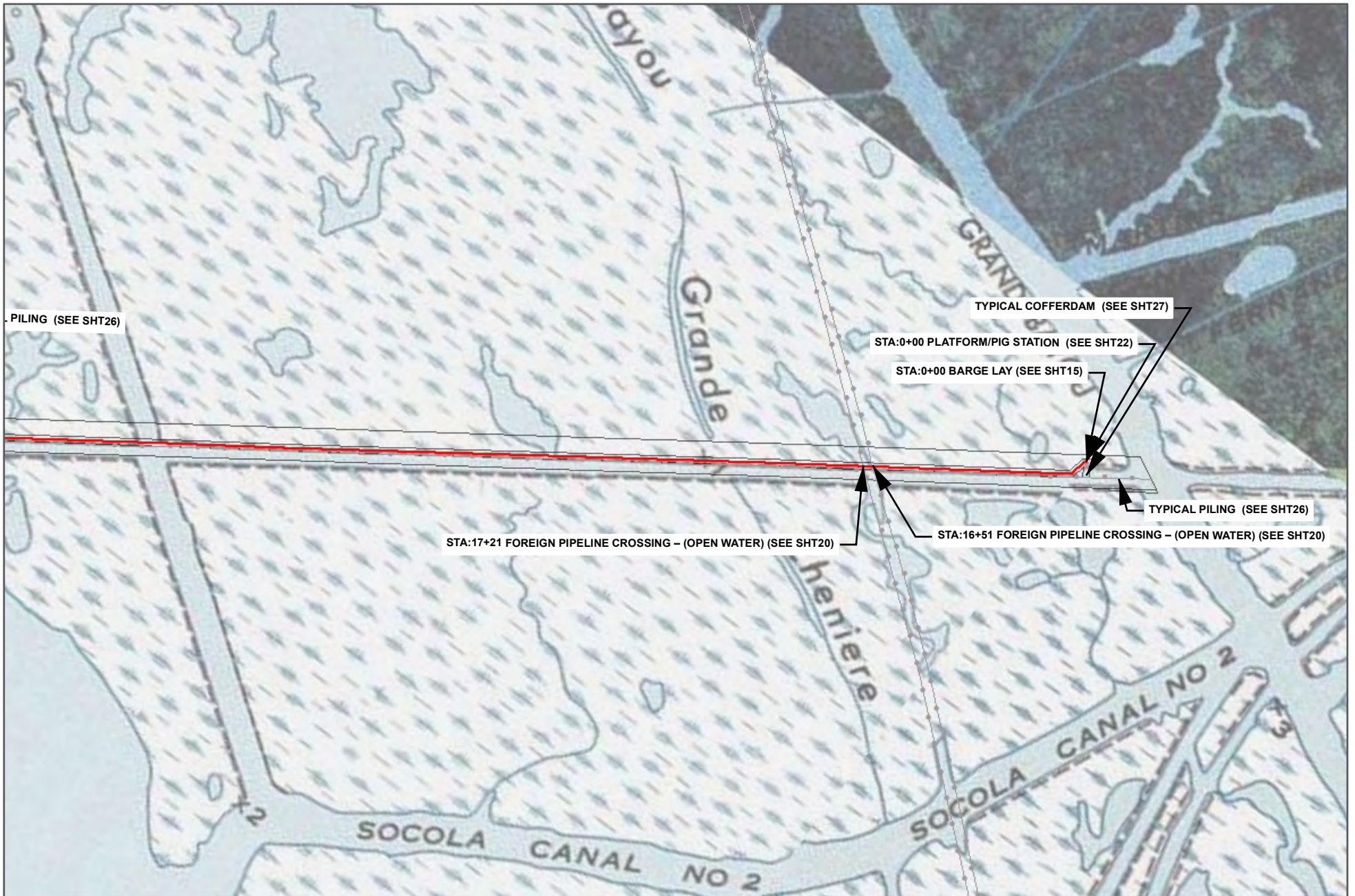
**Plan View**  
 Sheet 6  
 Evangeline Pass Expansion Project  
 Plaquemines & St. Bernard Parish, Louisiana



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







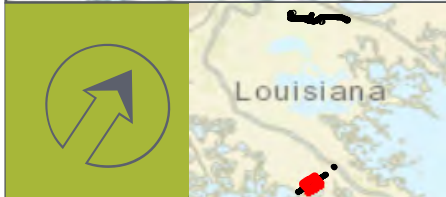
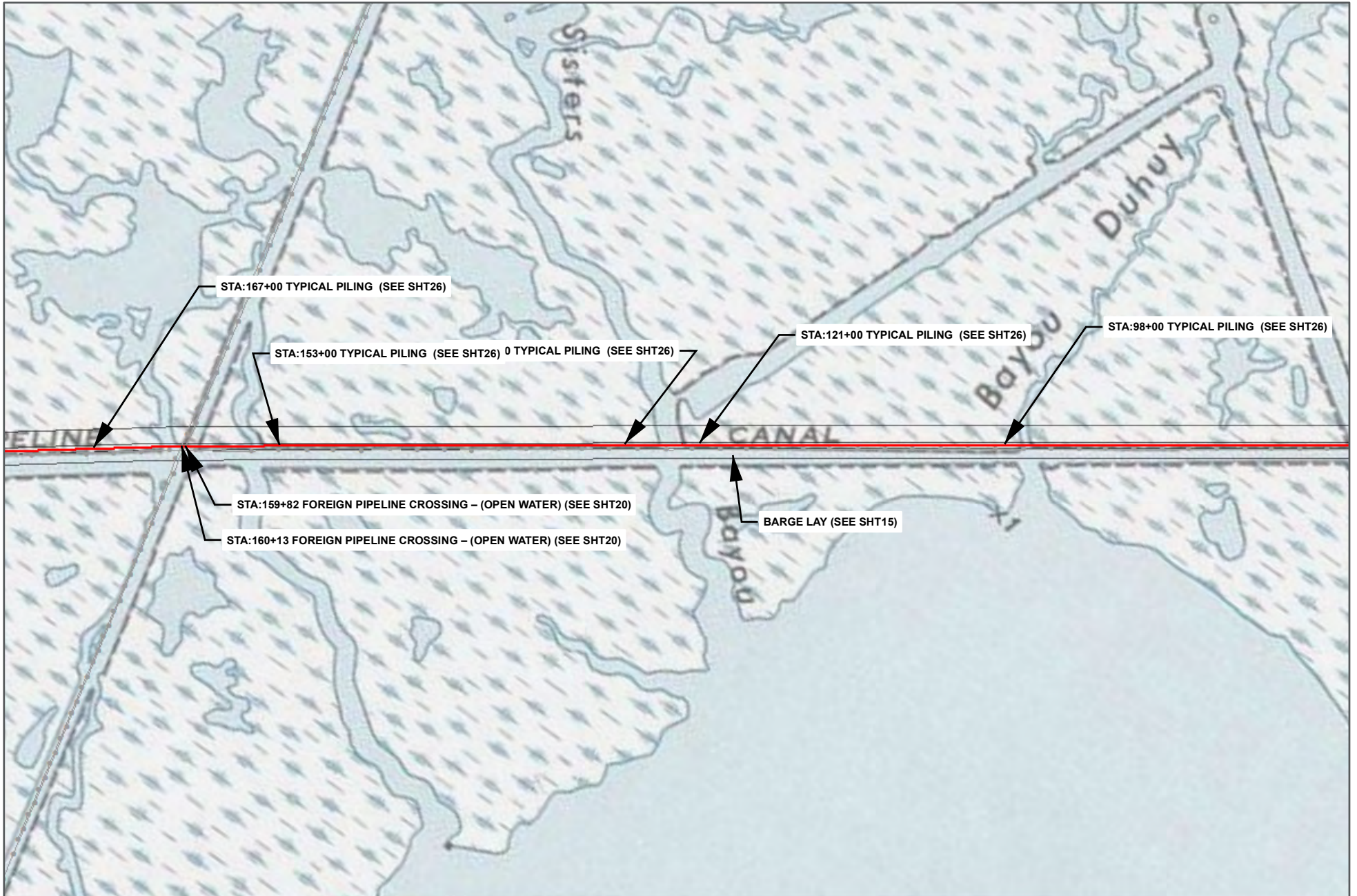
**Plan View**  
 Sheet 9  
**Evangeline Pass Expansion Project**  
**Plaquemines & St. Bernard Parish, Louisiana**



| SURFACE WATER RECORD          |                 |
|-------------------------------|-----------------|
| MAX MEAN                      | 2.0327273' FEET |
| MIN MEAN                      | 0.88' FEET      |
| YEAR 2017-10-01 TO 2018-09-30 |                 |
| 292952089453800 CRMS0282      |                 |







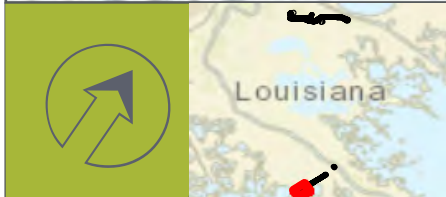
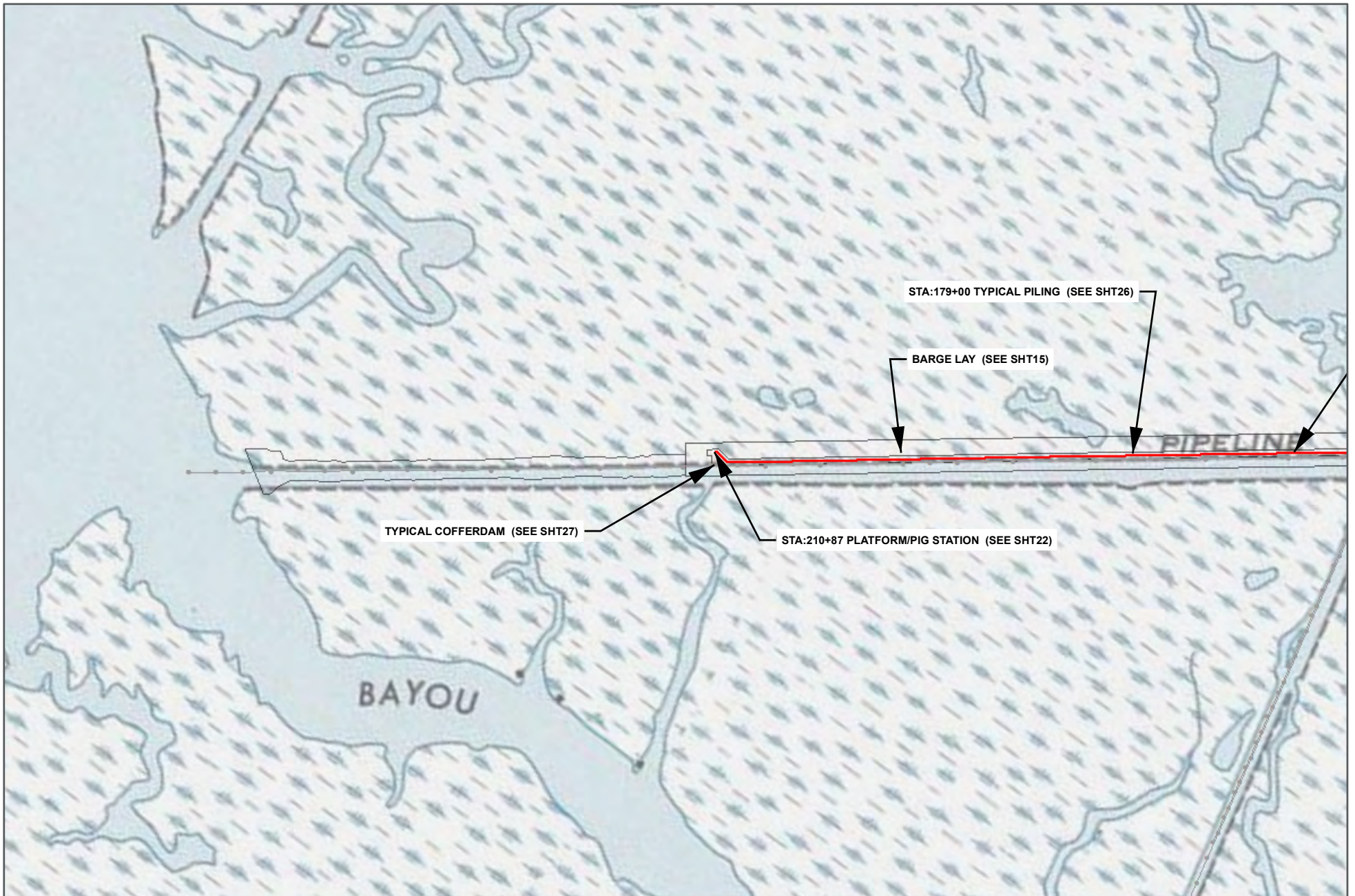
**Plan View**  
 Sheet 10  
 Evangeline Pass Expansion Project  
 Plaquemines & St. Bernard Parish, Louisiana



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |





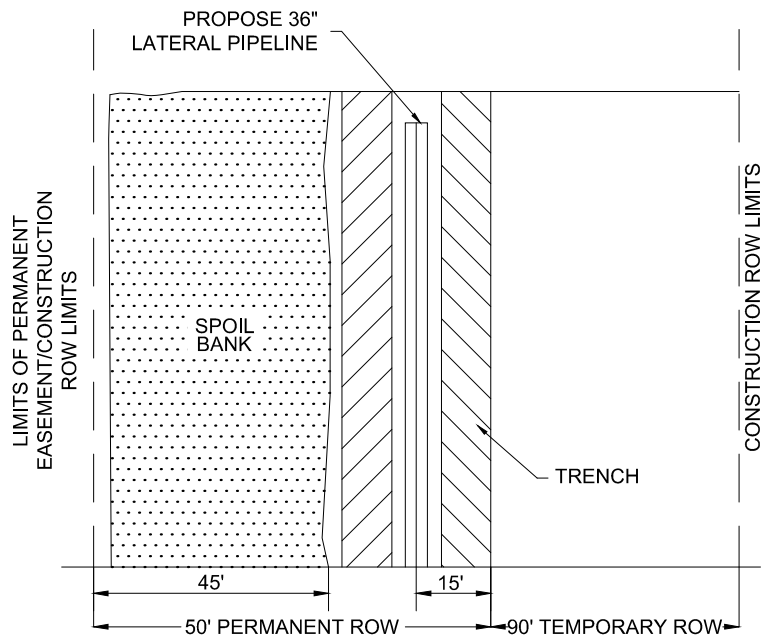


**Plan View**  
 Sheet 11  
**Evangeline Pass Expansion Project**  
**Plaquemines & St. Bernard Parish, Louisiana**

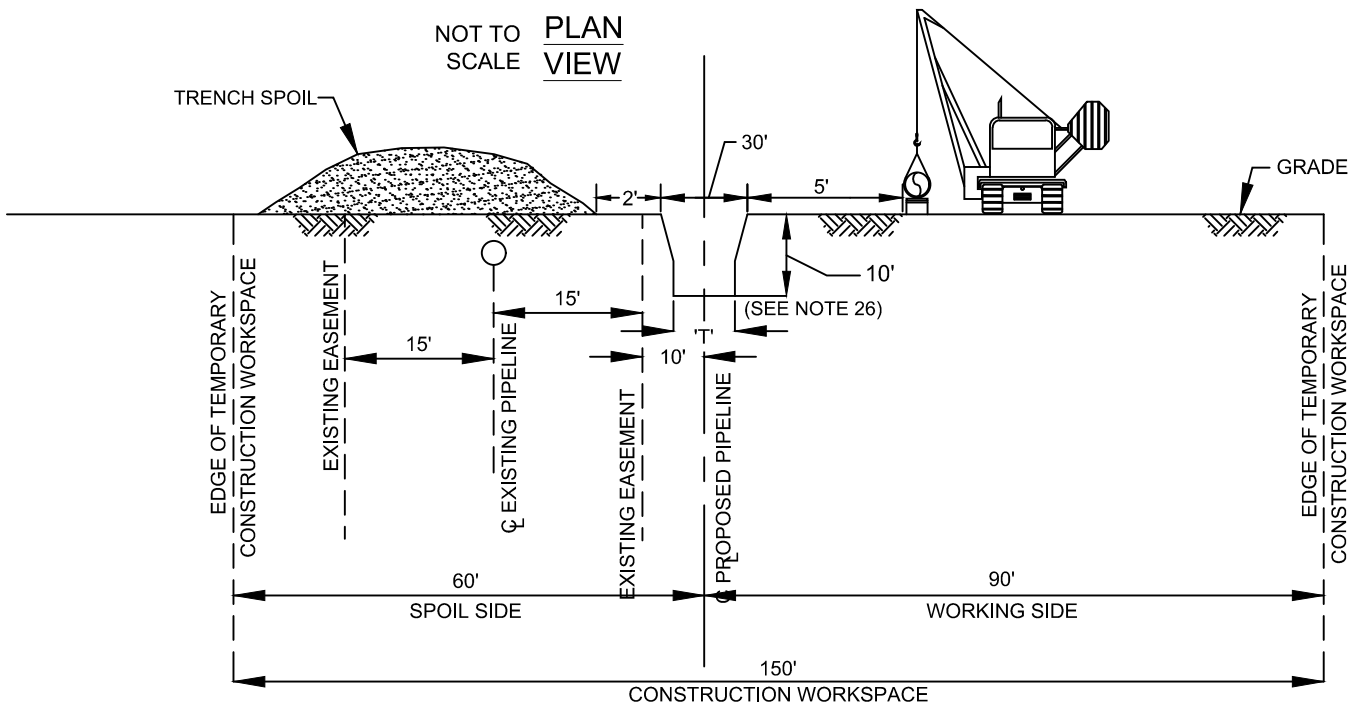


| SURFACE WATER RECORD          |            |      |
|-------------------------------|------------|------|
| MAX MEAN                      | 2.0327273' | FEET |
| MIN MEAN                      | 0.88'      | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |            |      |
| 292952089453800 CRMS0282      |            |      |


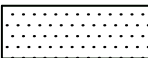
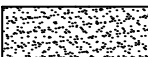





NOT TO SCALE  
PLAN VIEW



**LEGEND**

-  DREDGE AREA
-  SPOIL BANK
-  TRENCH SPOIL
-  GRADE

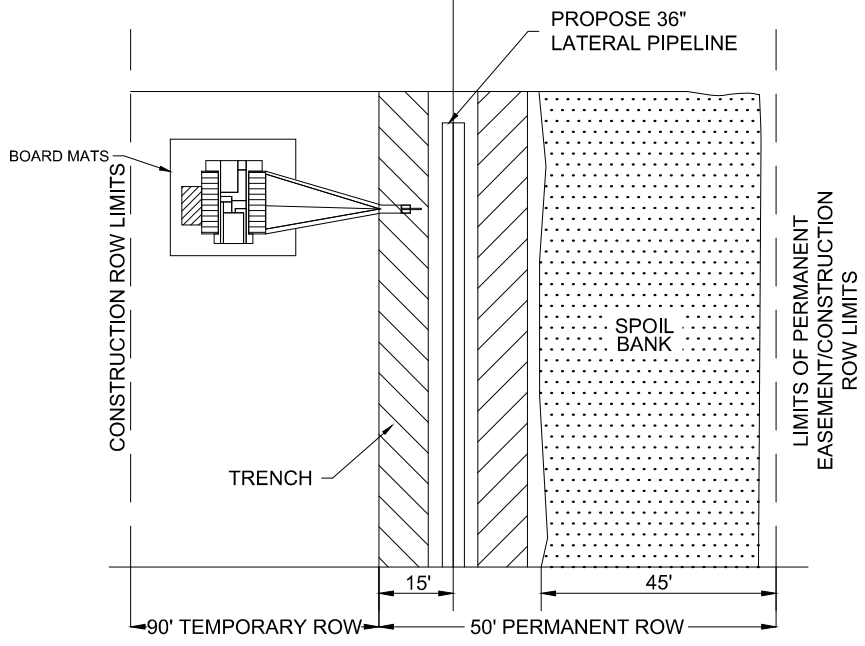
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|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
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Sheet - 12  
USACE-MVN

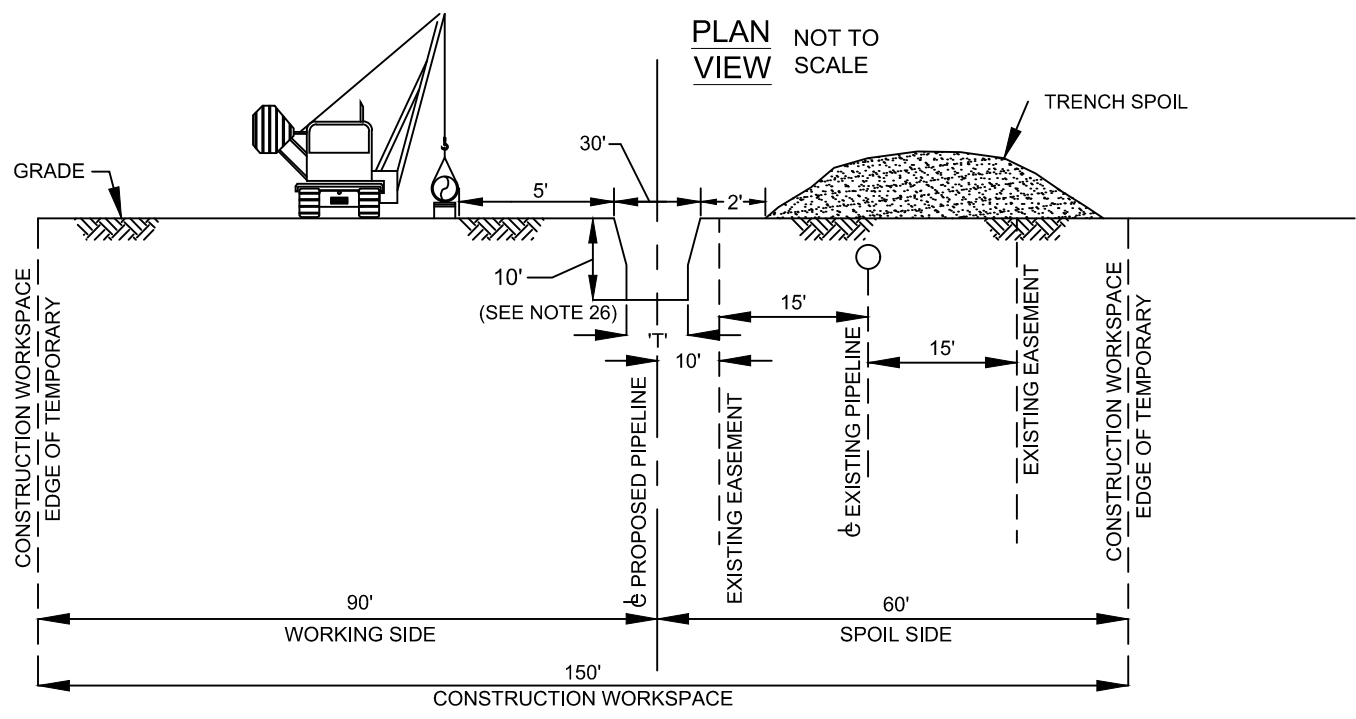
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**Conventional Lay (A)**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





PLAN NOT TO VIEW SCALE



| LEGEND |              |
|--------|--------------|
|        | DREDGE AREA  |
|        | SPOIL BANK   |
|        | TRENCH SPOIL |
|        | GRADE        |

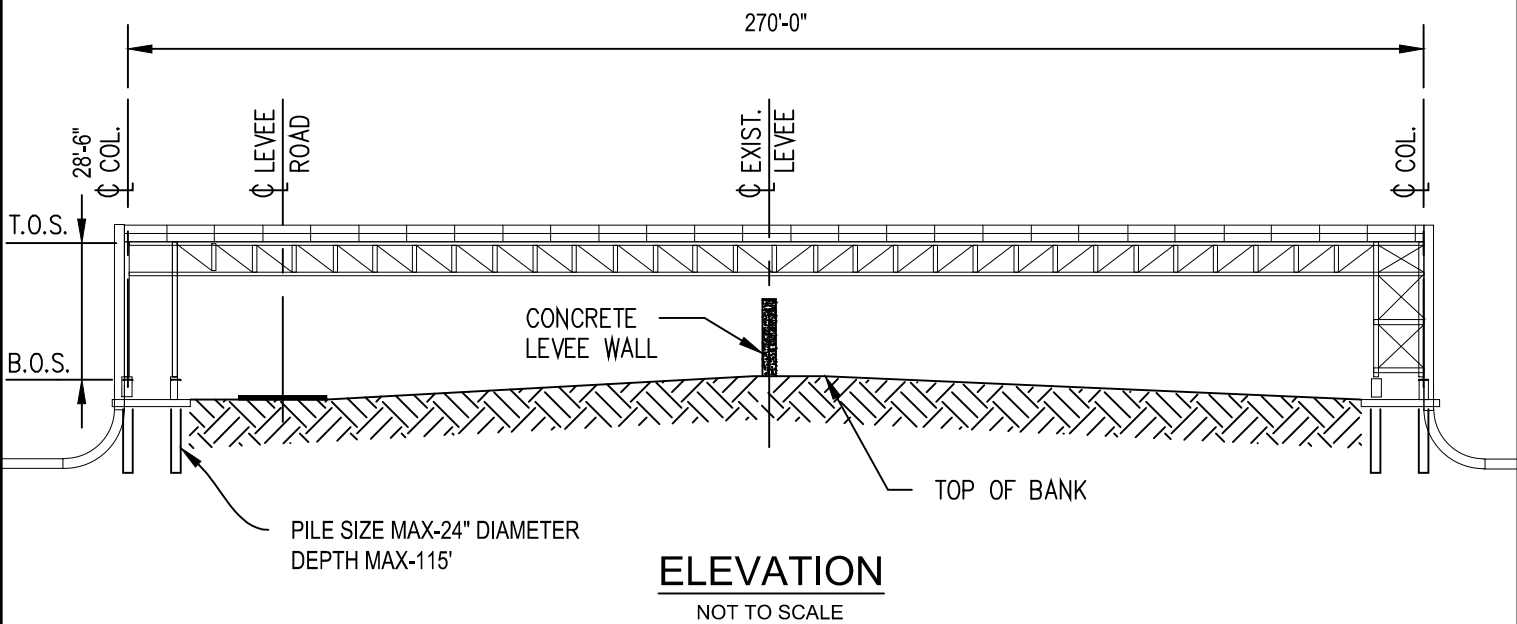
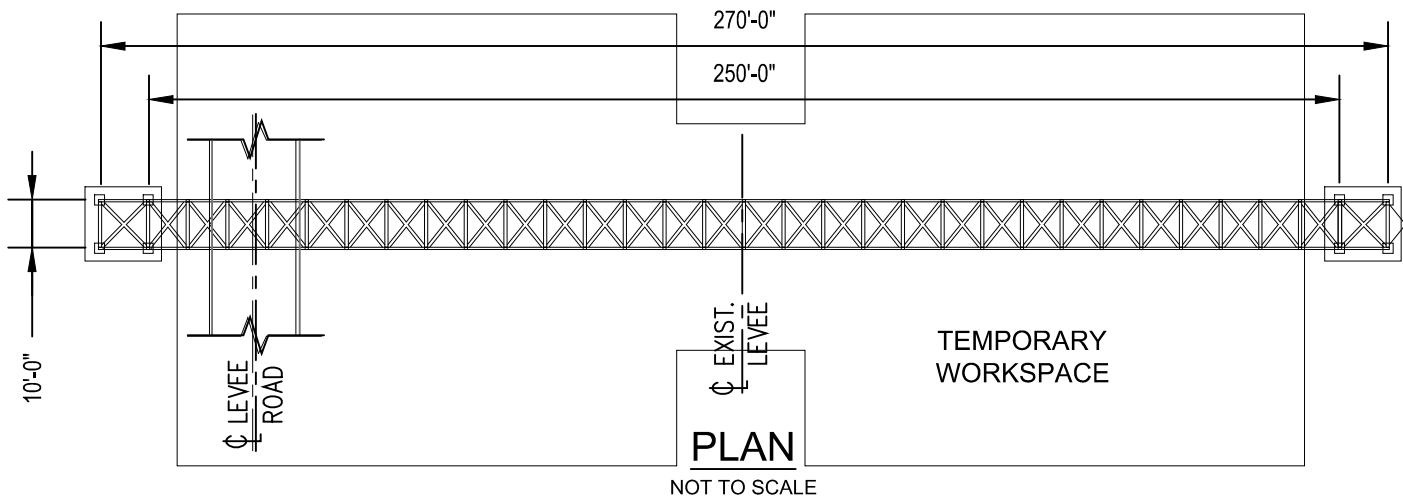
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|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

Sheet - 13  
USACE-MVN

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**Conventional Lay (B)**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





| LEGEND   |       |
|--|-------|
|  | GRADE |

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
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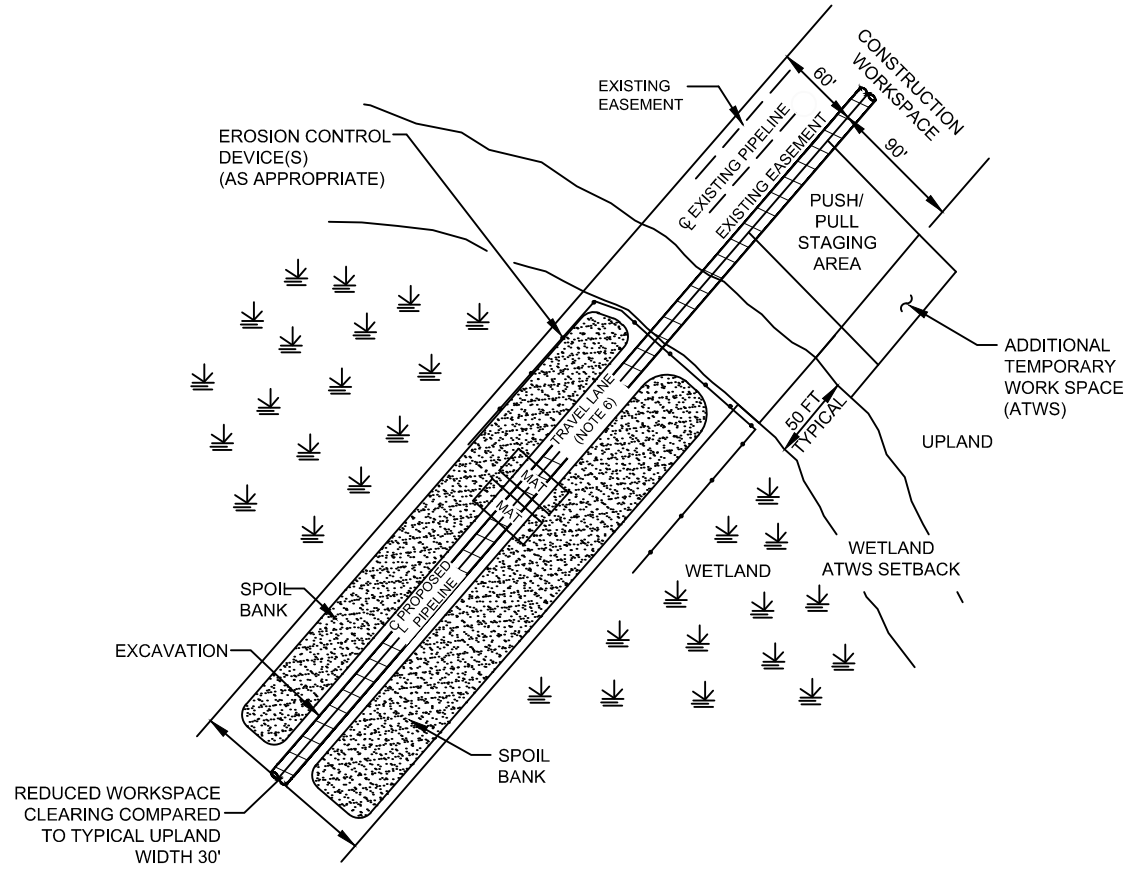
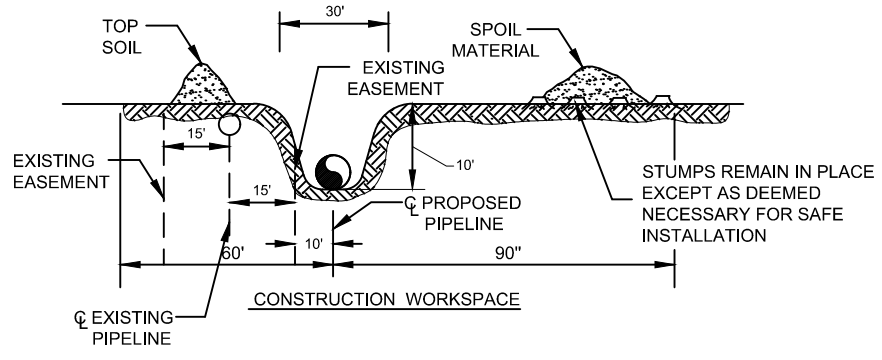
Sheet - 14  
USACE-MVN

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**Typical Bridge**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana







| LEGEND |  |
|--------|--|
|        | DREDGE AREA                            |
|        | SPOIL BANK                             |
|        | WETLAND                                |
|        | ADDITIONAL TEMPORARY WORK SPACE (ATWS) |
|        | GRADE                                  |

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

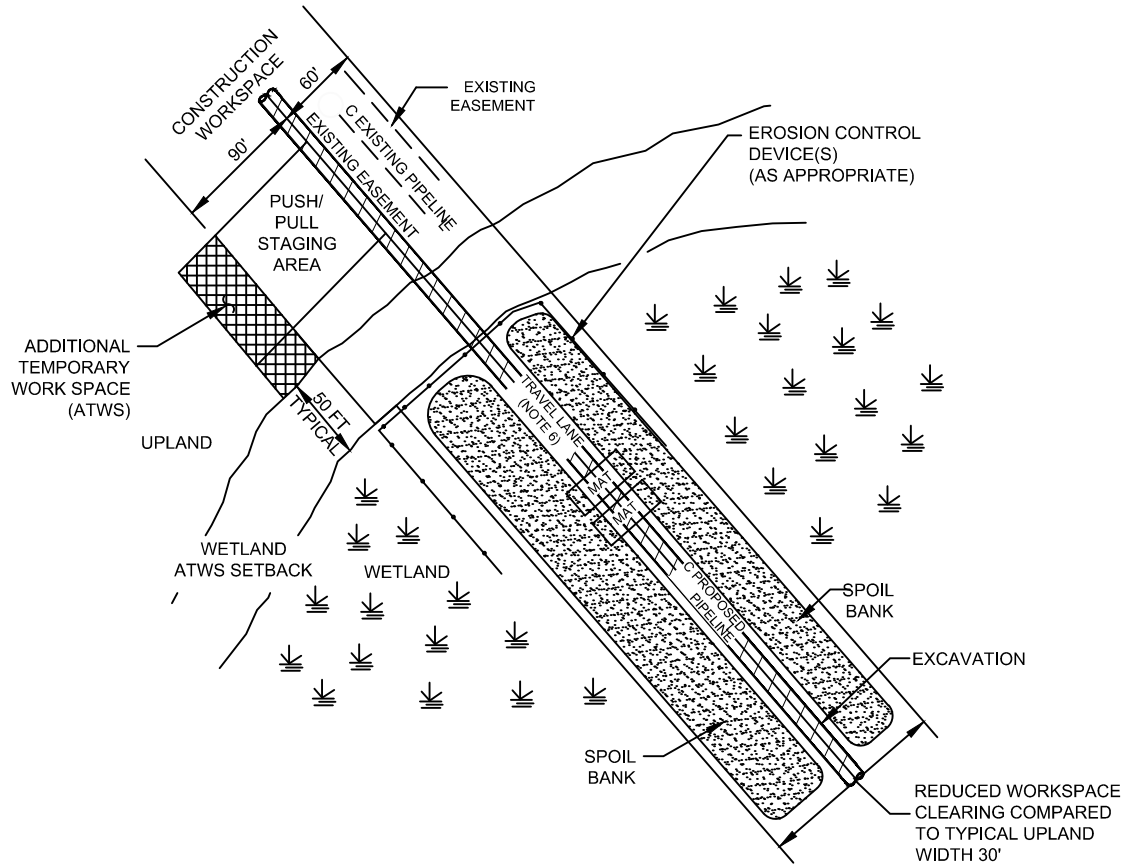
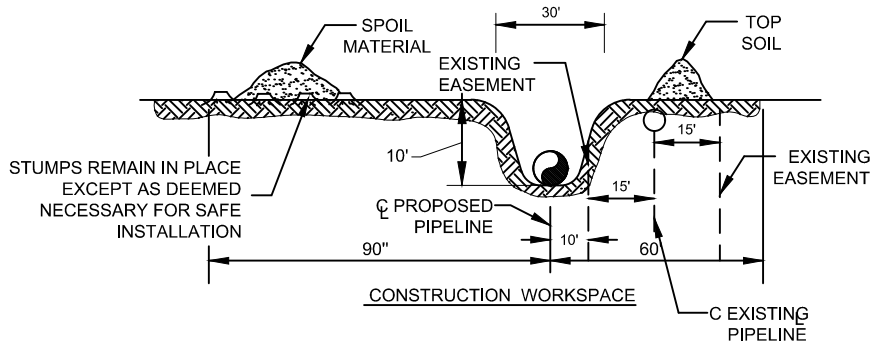
Sheet - 15  
USACE-MVN

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## Typical Push Lay A

Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





| LEGEND |  |
|--------|--|
|        | DREDGE AREA                            |
|        | SPOIL BANK                             |
|        | WETLAND                                |
|        | ADDITIONAL TEMPORARY WORK SPACE (ATWS) |
|        | GRADE                                  |

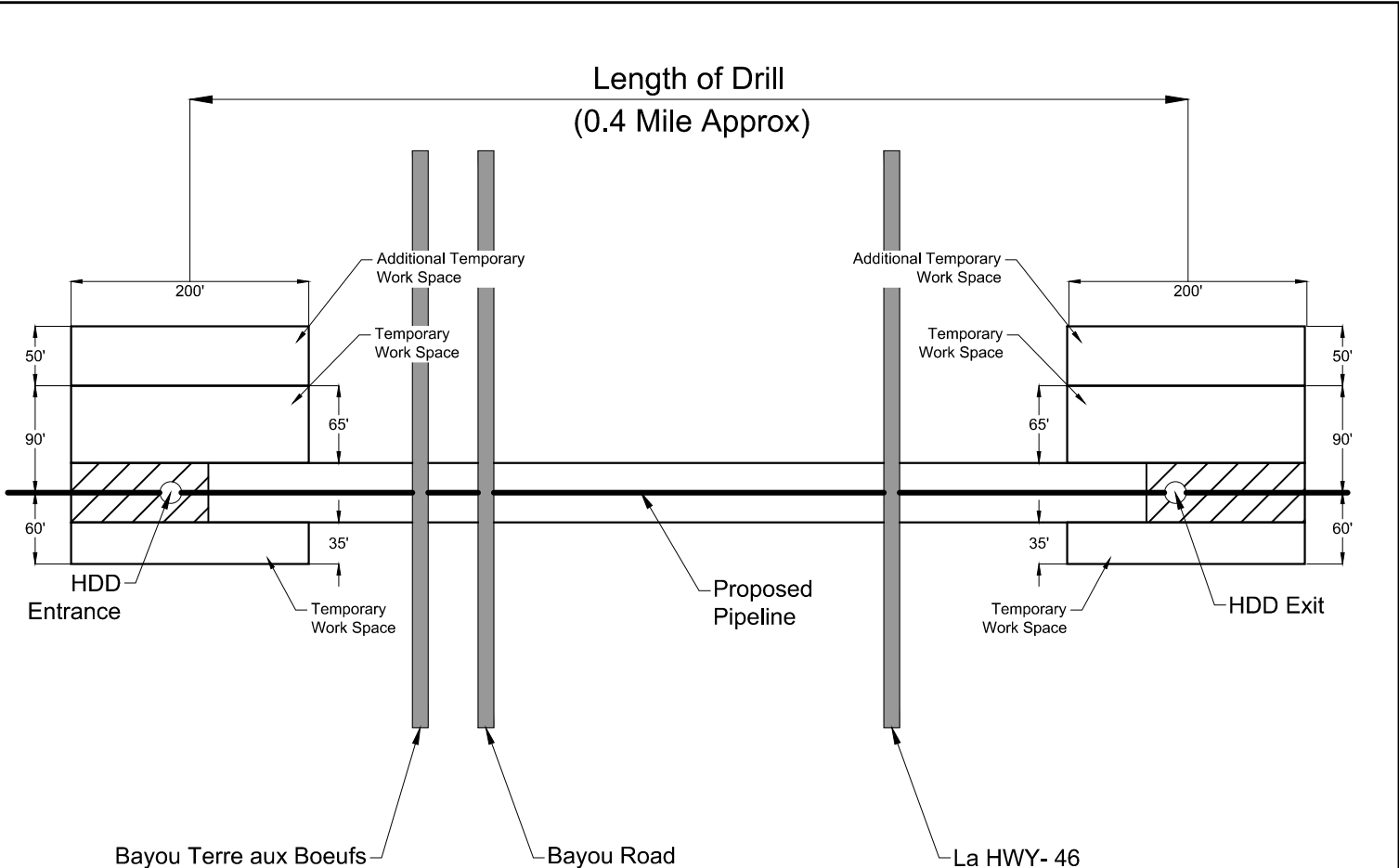
| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

Sheet - 16  
USACE-MVN

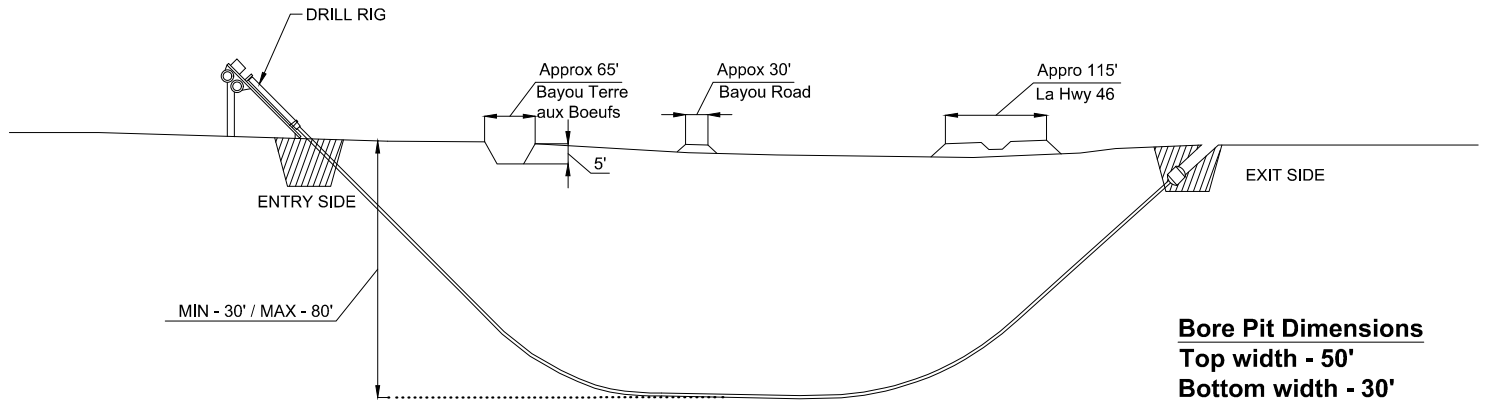
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**Typical Push Lay B**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





**PLAN VIEW**  
NOT TO SCALE



**PROFILE VIEW**  
NOT TO SCALE

**Bore Pit Dimensions**  
Top width - 50'  
Bottom width - 30'  
Depth - 10'  
Length - 50'

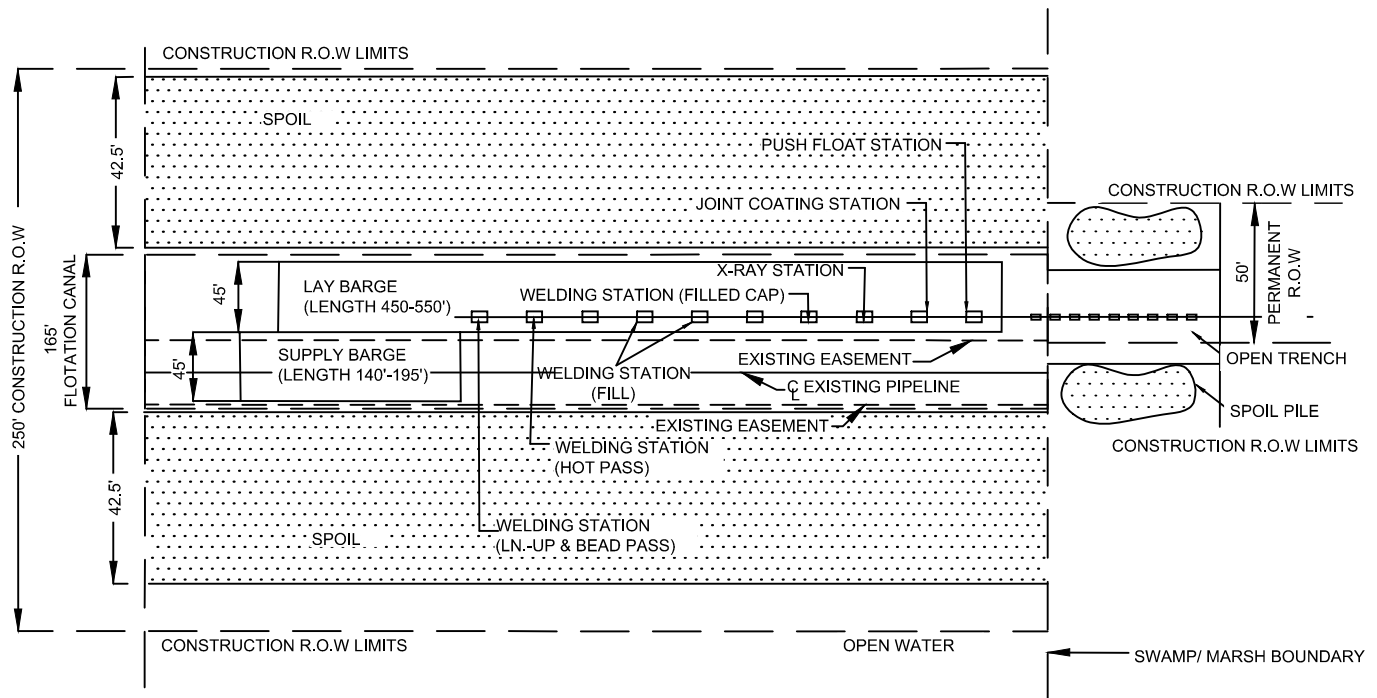
| LEGEND   |             |
|--|-------------|
|  | DREDGE AREA |

Sheet - 17  
USACE-MVN

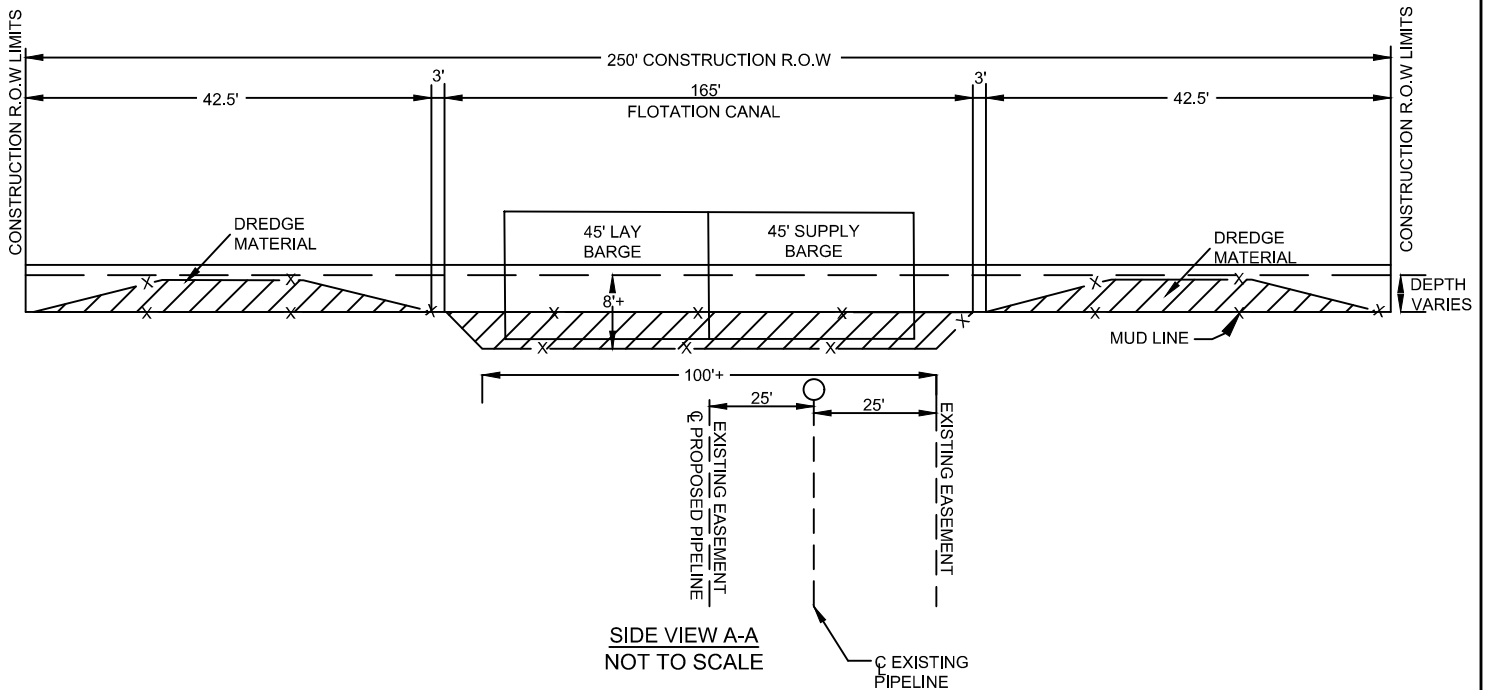
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**Typical HDD**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





PLAN VIEW  
NOT TO SCALE



SIDE VIEW A-A  
NOT TO SCALE

| LEGEND |             |
|--------|-------------|
|        | SPOIL BANK  |
|        | DREDGE AREA |

| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

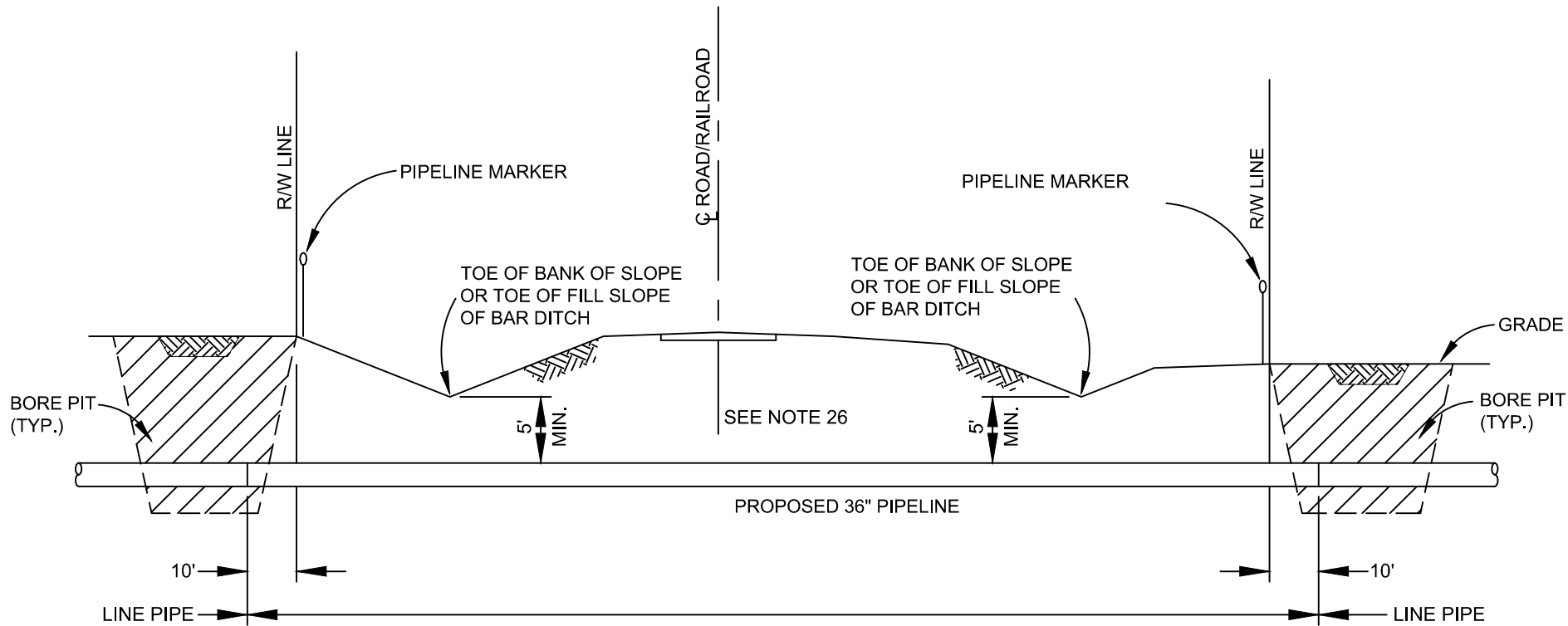
Sheet - 18  
USACE-MVN

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**Typical Barge Lay**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana









TYPICAL ROAD/RAILROAD CROSSING - BORED CROSSING

**Bore Pit Dimensions**

- Top width - 50'**
- Bottom width - 30'**
- Depth - 10'**
- Length - 50'**

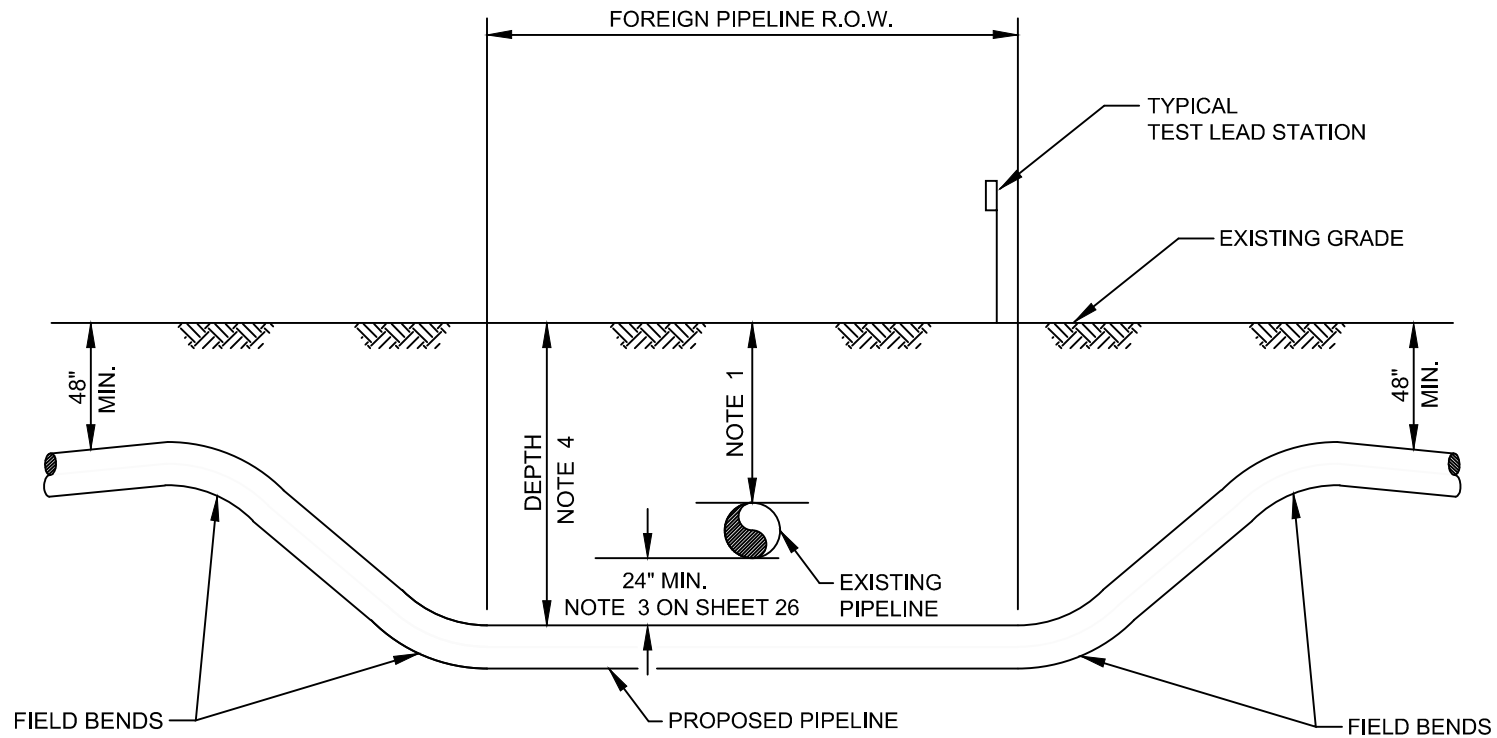
| LEGEND   |             |
|--|-------------|
|  | DREDGE AREA |
|  | GRADE       |

Sheet - 19  
USACE-MVN

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**Typical Bored Crossing**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





CROSS SECTION OF FOREIGN P/L R.O.W.

| LEGEND   |       |
|--|-------|
|  | GRADE |

Sheet - 20  
USACE-MVN

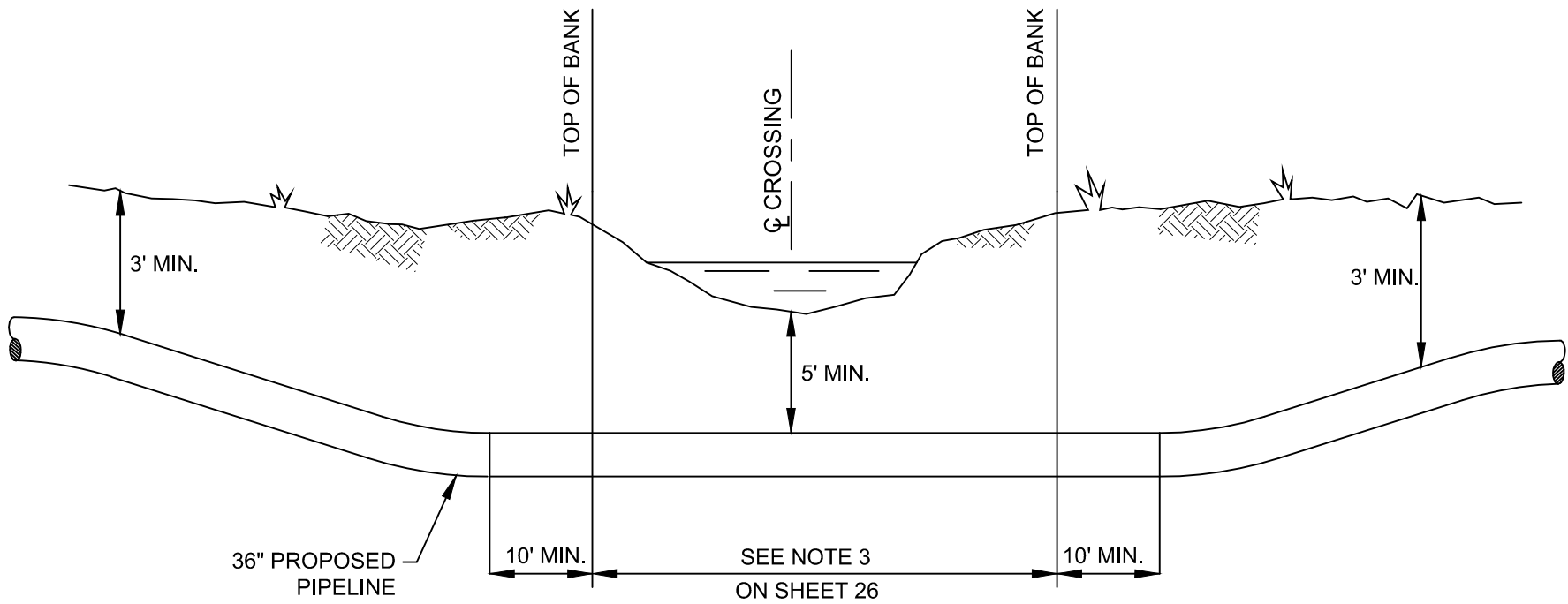
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### Typical Foreign Pipeline Crossing - Conventional Lay

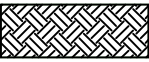
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana



Tennessee Gas Pipeline  
Company, L.L.C.  
a Kinder Morgan company



CROSS SECTION OF CHANNEL/DITCH CROSSING

| LEGEND   |       |
|--|-------|
|  | GRADE |

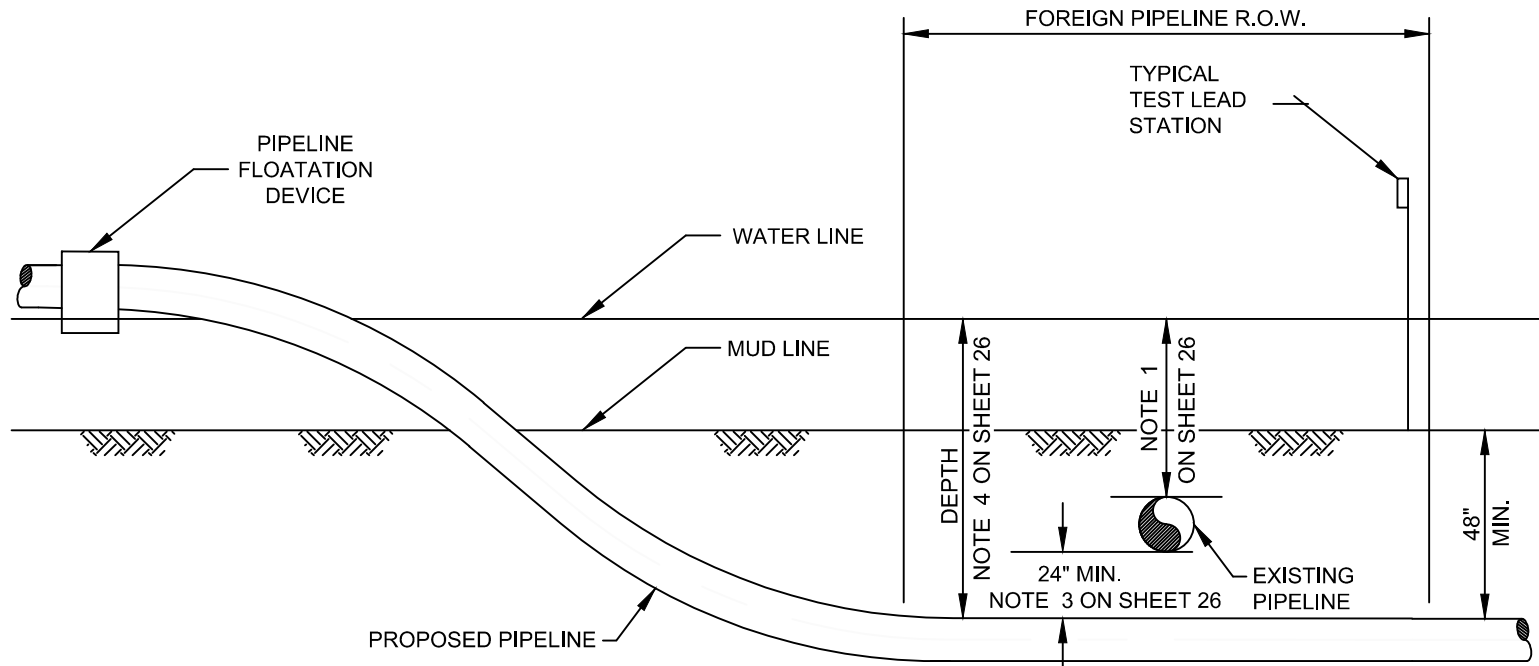
Sheet - 21  
USACE-MVN

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**Typical Channel-Ditch Crossing (Open Cut)**  
 Evangeline Pass Expansion Project  
 Plaquemines & St. Bernard Parish, Louisiana




Tennessee Gas Pipeline Company, L.L.C.  
a Kinder Morgan company



CROSS SECTION OF FOREIGN P/L R.O.W.

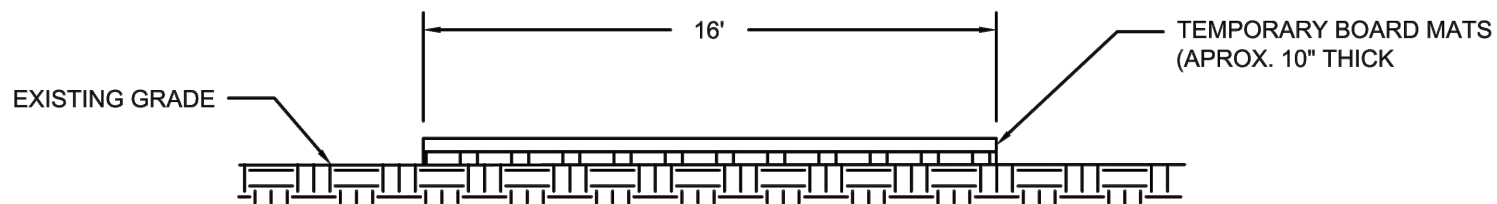
| LEGEND   |       |
|--|-------|
|  | GRADE |

Sheet - 22  
USACE-MVN

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**Typical Foreign Pipeline Crossing – Barge/Push Lay**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





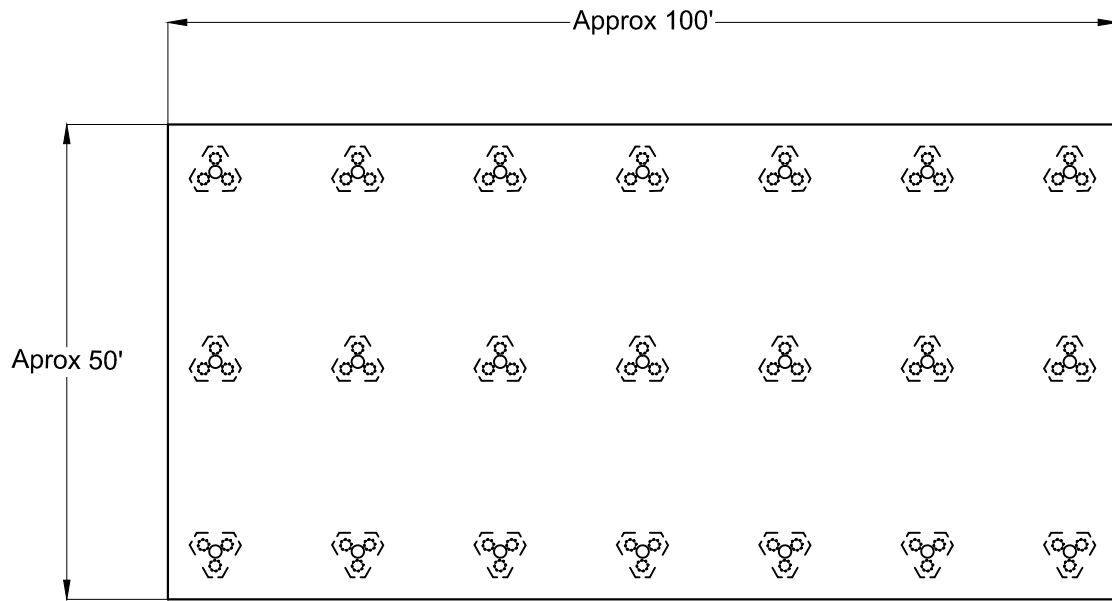
**TYPICAL TEMPORARY ACCESS ROAD  
CROSS SECTION**  
NOT TO SCALE

Sheet - 23  
USACE-MVN

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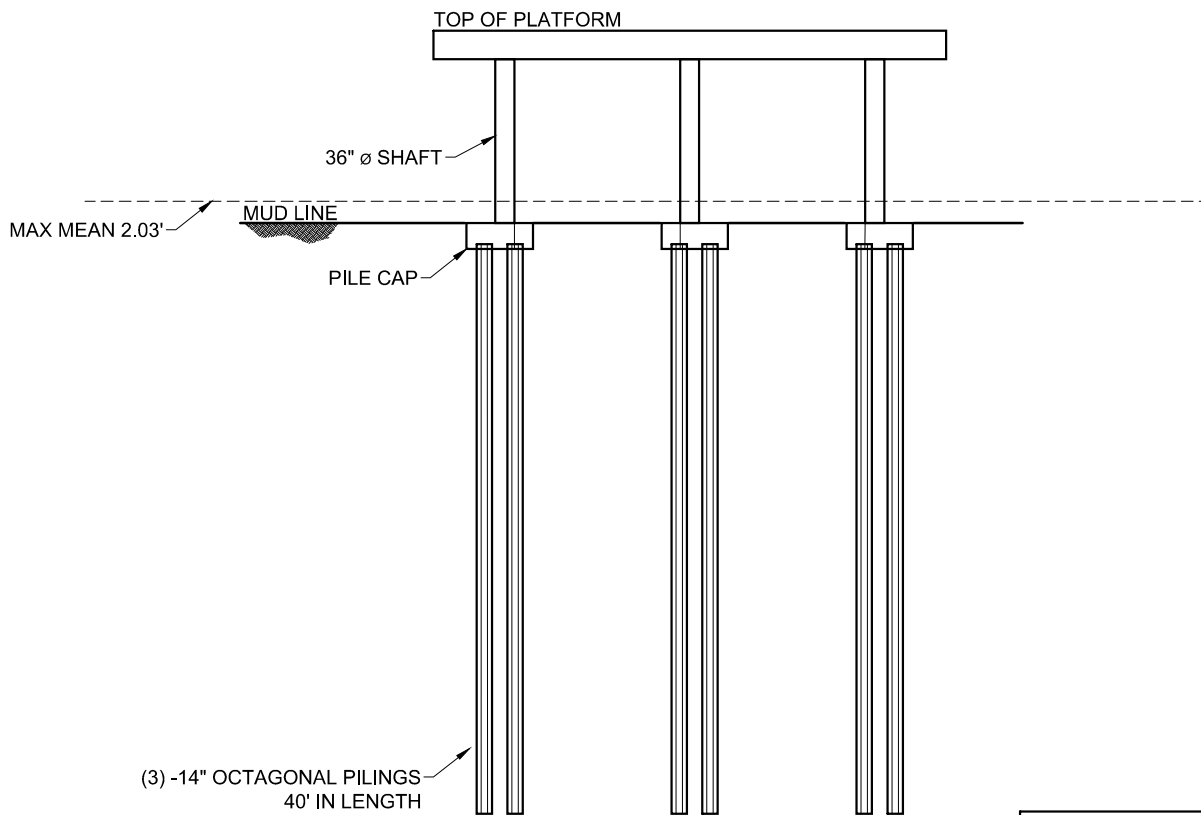
**Typical Temporary Access Road**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana





**PROPOSED PIG STATION PLATFORM**

PLAN VIEW NOT TO SCALE



**TYPICAL PILE GROUP**

SECTION VIEW NOT TO SCALE

| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

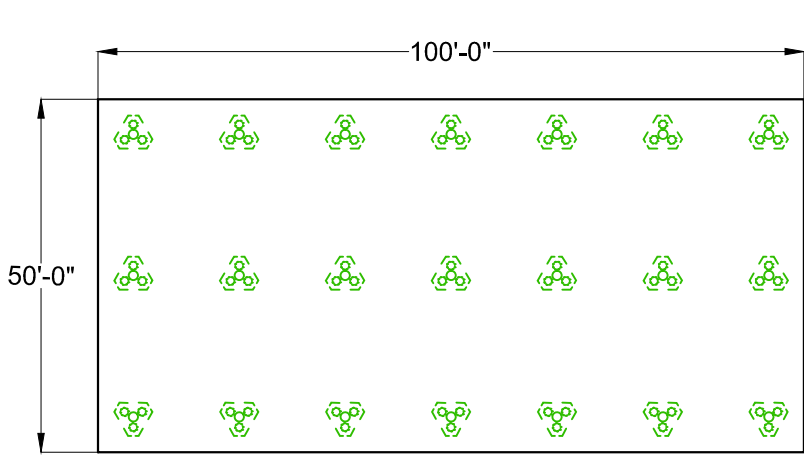
Sheet - 24  
USACE-MVN

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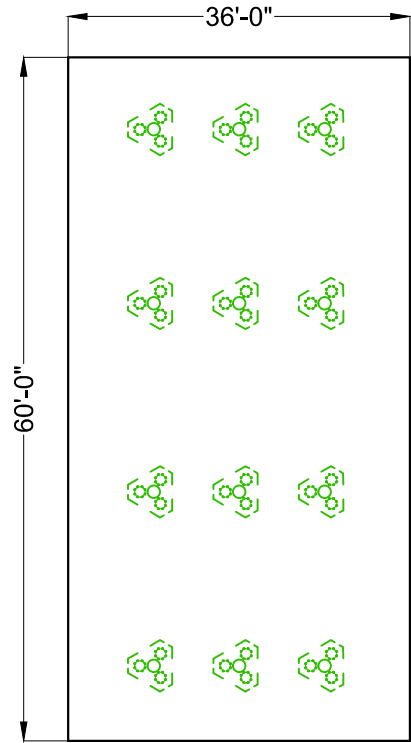
**Proposed Pig Station Platform  
and Typical Pile Group**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana



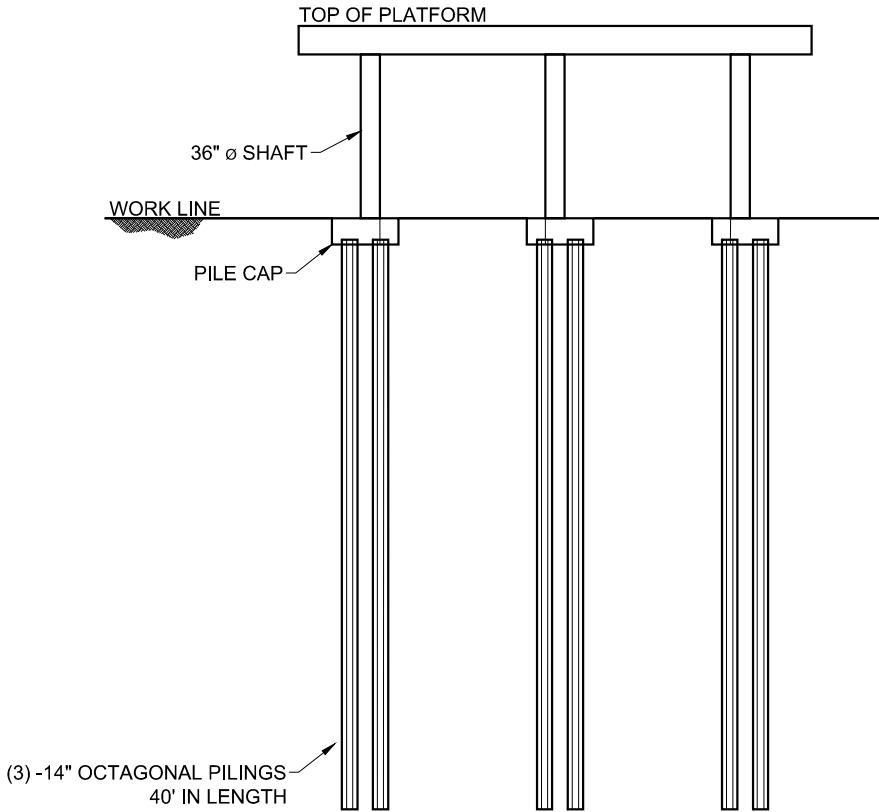
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**TYPICAL PLATFORM (B)**  
PLAN VIEW NOT TO SCALE



**TYPICAL PLATFORM (A)**  
PLAN VIEW NOT TO SCALE



**TYPICAL PILE GROUP**  
SECTION VIEW NOT TO SCALE

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

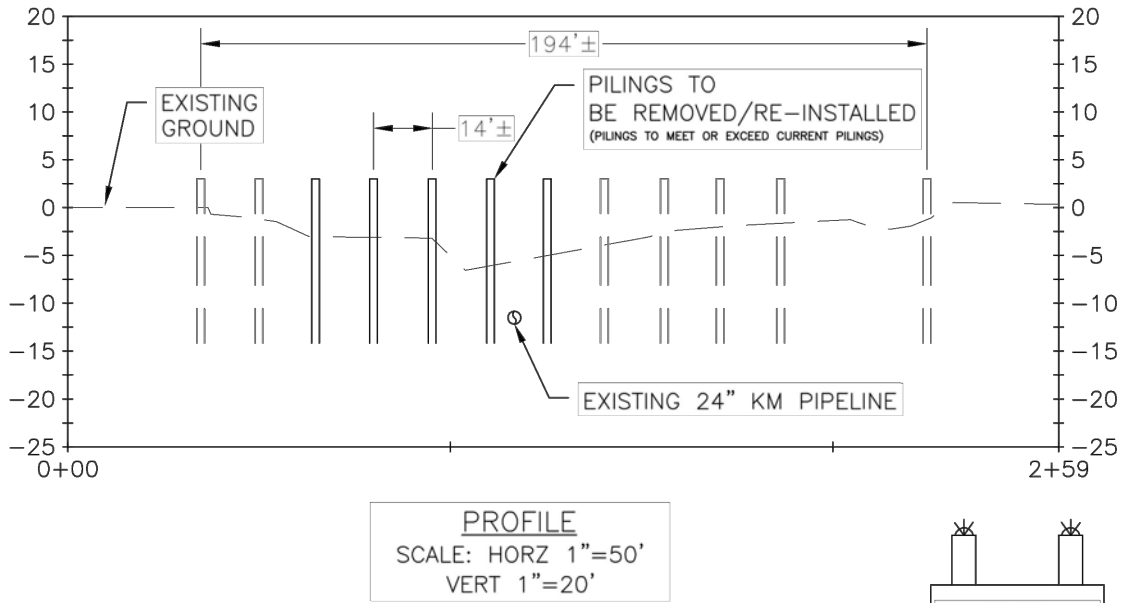
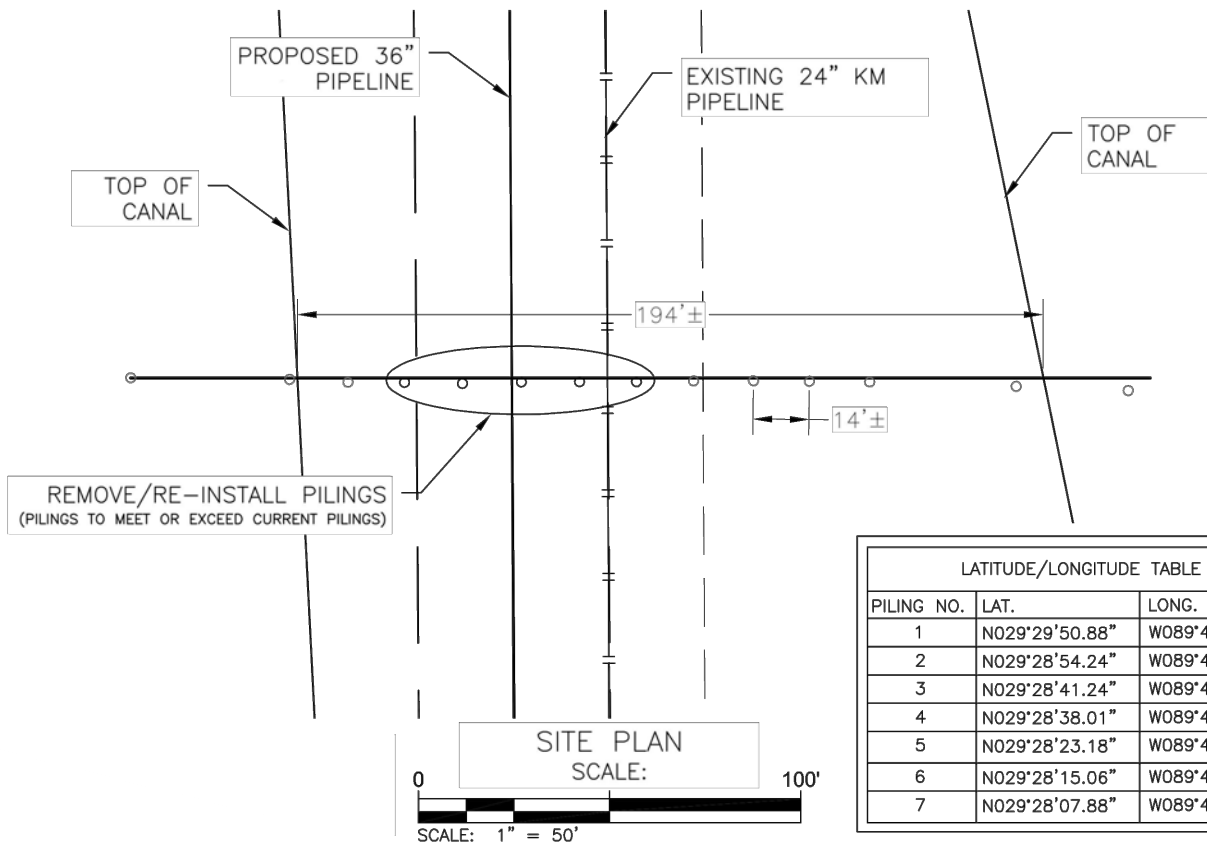
Sheet - 25  
USACE-MVN

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**Typical Platform and Typical Pile Group - Station 529**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana



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TYPICAL WARNING SIGN NOT TO SCALE

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

Sheet - 26  
USACE-MVN

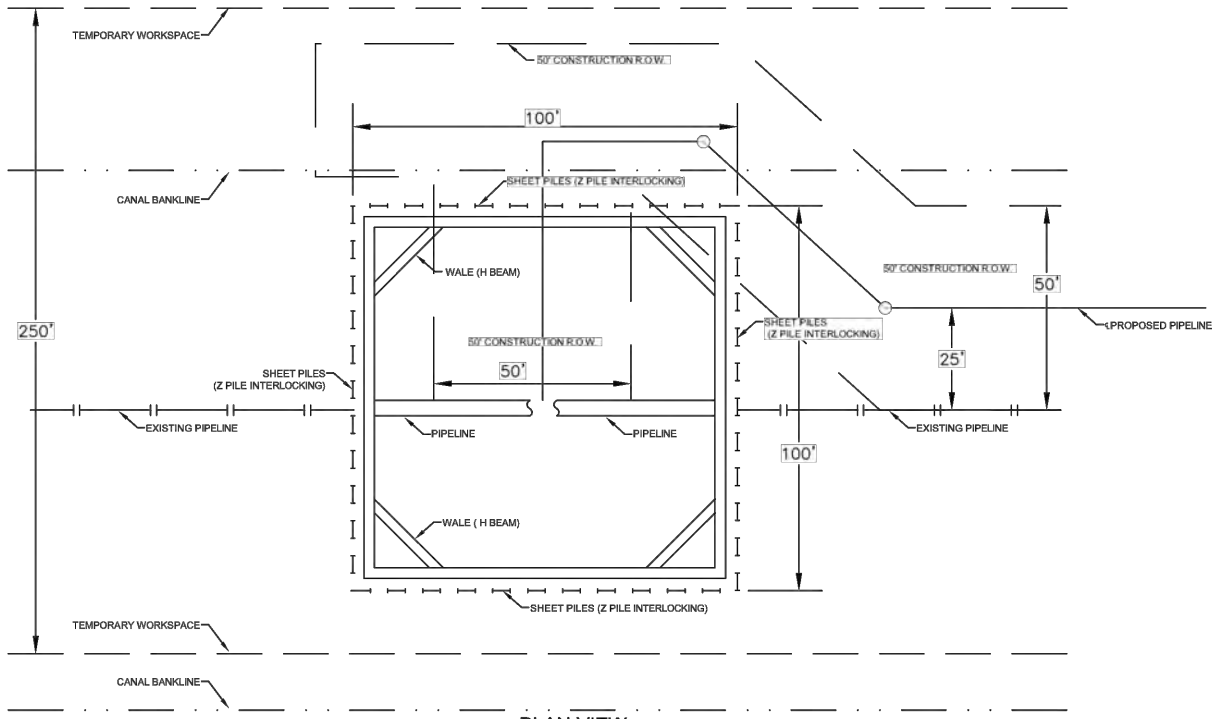
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**Typical Canal Pilings**  
Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana

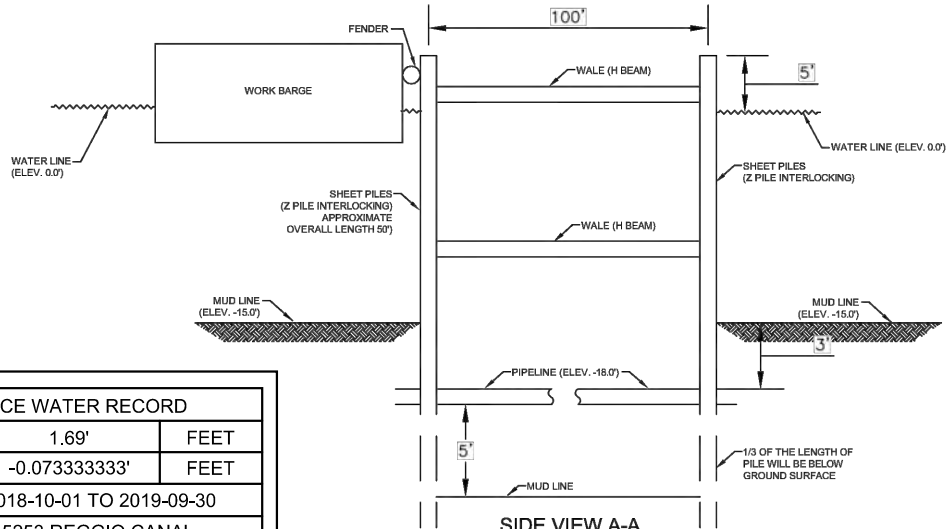


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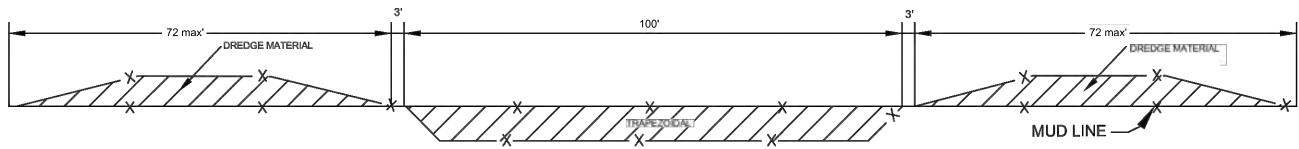


**PLAN VIEW**  
NOT TO SCALE



**SIDE VIEW A-A**  
NOT TO SCALE

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



| COFFERDAM LOCATIONS |                                       |
|---------------------|---------------------------------------|
| NORTH COFFERDAM     | N 029° 29' 49.31" - W 089° 44' 59.31" |
| SOUTH COFFERDAM     | N 029° 27' 48.92" - W 089° 48' 13.24" |

**SHEET 12-13 NOTES:**

1. TEMPORARY WORKSPACE WILL NOT BE LOCATED WITHIN THE PERMANENT EASEMENT OF ANY PARALLELING EXISTING PIPELINE. EXTRA TEMPORARY WORKSPACE WILL BE NECESSARY AT MAJOR ROADS, RAILROADS, RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. LEAVE GAPS IN SPOIL PILES AT OBVIOUS DRAINAGES. DO NOT PUSH UPLAND SOILS INTO CREEKS OR WETLANDS. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING AND SPOIL PILES.
3. THE OFFSET FROM EXISTING PIPELINE TO THE INSTALLED PIPELINE WHERE APPLICABLE, WILL BE 50 FEET, BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.
4. SAME LAYOUT APPLIES WHERE CONSTRUCTION WORKSPACE DOES NOT ABUT EXISTING EASEMENT
5. BOTTOM OF TRENCH WIDTH WILL BE AN AVERAGE OF 5' (SEE TYPICAL "TWS") HOWEVER, UNDER CERTAIN CIRCUMSTANCES, THE TRENCH MAY BE A MAXIMUM OF 10' WIDE.
6. DO NOT SEED WETLAND AREAS W/SATURATED SOIL.
7. NO FERTILIZER OR LIME IS PERMITTED.
8. DO NOT USE LIQUID MULCH BINDERS WITHIN 100 FEET OF WETLANDS OR WATERBODIES.
9. MATS WILL BE UTILIZED TO CONSTRUCT THE TRENCH AND REMOVED AS DITCHING PROGRESSES.

**SHEET 15-16 NOTES:**

1. SEGREGATE TOPSOIL FROM THE AREA DISTURBED BY TRENCHING, EXCEPT IN AREAS WHERE STANDING WATER IS PRESENT OR SOILS ARE SATURATED OR FROZEN.
2. INSTALL TRENCH BREAKERS & WATERBARS ON BOTH SIDES OF THE WETLAND IF HYDROLOGIC CONDITIONS WOULD DRAIN THE WETLAND.
3. DO NOT SEED WETLAND AREAS W/SATURATED SOIL.
4. NO FERTILIZER OR LIME IS PERMITTED.
5. DO NOT USE LIQUID MULCH BINDERS WITHIN 100 FEET OF WETLANDS OR WATERBODIES.
6. MATS WILL BE UTILIZED TO CONSTRUCT THE TRENCH AND REMOVED AS DITCHING PROGRESSES.
7. THE PUSH/PULL METHOD CAN ONLY BE UTILIZED IF THE TRENCH IS INUNDATED WITH WATER. OTHERWISE, THE TYPICAL WETLAND CONSTRUCTION METHOD WILL BE USED.

**SHEET 17 NOTE:**

1. WORKSPACE 200' X 200' WILL BE USED FOR HORIZON DIRECTION DRILL ENTRY SITE AND EXIST SITE

**SHEET 18 NOTES:**

1. DO NOT SEED WETLAND AREAS W/SATURATED SOIL.
2. NO FERTILIZER OR LIME IS PERMITTED.
3. DO NOT USE LIQUID MULCH BINDERS WITHIN 100 FEET OF WETLANDS OR WATERBODIES.
4. MATS WILL BE UTILIZED TO CONSTRUCT THE TRENCH AND REMOVED AS DITCHING PROGRESSES.

**SHEET 19 NOTES:**

1. DESIGN FACTOR: IN ACCORDANCE WITH ALIGNMENT SHEETS
2. 100% X-RAY INSPECT ALL WELDS ON CARRIER PIPE IN ACCORDANCE WITH API STANDARD 1104 AND CONTRACT DOCUMENTS.
3. CONTRACTOR TO SLICK BORE CARRIER PIPE WITH A PROCEDURE SUBMITTED BY CONTRACTOR AND APPROVED BY THE COMPANY.
4. MINIMUM DEPTH OF COVER UNDER ROAD TO TOP OF PIPE SHALL BE 5' OR SHALL CONFORM TO THE ROAD CROSSING PERMIT, WHICHEVER IS GREATER. ROAD CROSSING PIPE TO EXTEND 10' BEYOND ON EITHER SIDE OF DESIGNATED ROAD RIGHT-OF-WAY.
5. CONTRACTOR TO COMPLY TO THE SPECIFICATION REQUIREMENTS.

**SHEET 20 & 22 NOTES:**

1. FOREIGN PIPELINE LOCATIONS & DEPTHS TO BE DETERMINED BY ELECTRONIC MEANS IN ADVANCE OF PIPELINE CONSTRUCTION AND CONFIRMED BY CAREFULLY EXPOSING BY HAND DIGGING WITHIN 24" IN ANY DIRECTION FROM THE PIPELINE.
2. OWNER OF FOREIGN PIPELINE(S) SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF EXCAVATION OF CROSSING.
3. DEPTH OF PIPELINE, INCLUDING 24" MIN. CLEARANCE SHALL BE MAINTAINED FOR FULL WIDTH OF FOREIGN PIPELINE R.O.W.
4. PROPOSED PIPELINE MAY CROSS ABOVE THE FOREIGN PIPELINE(S) ONLY WHERE REQUESTED BY OR APPROVED BY FOREIGN PIPELINE OWNER IN WRITING. 24" SEPERATION WILL BE MAINTAINED IF PIPELINE CROSSES ABOVE THE FOREIGN PIPELINE(S).
5. DO NOT SEED WETLAND AREAS W/SATURATED SOIL.
6. NO FERTILIZER OR LIME IS PERMITTED.
7. DO NOT USE LIQUID MULCH BINDERS WITHIN 100 FEET OF WETLANDS OR WATERBODIES.
8. MATS WILL BE UTILIZED TO CONSTRUCT THE TRENCH AND REMOVED AS DITCHING PROGRESSES.

**SHEET 21 NOTES:**

1. PIPE SHALL BE INSTALLED BY THE OPEN-CUT METHOD.
2. COVER OVER PIPE SHALL BE A MINIMUM OF 5'.
3. MAINTAIN CROSSING GRADE ON PIPE FOR A DISTANCE EQUAL TO TWICE THE WIDTH OF THE STREAM FROM HIGH BANK TO HIGH BANK.
4. WHEN WEIGHTING FOR BOUYANCY CONTROL IS SPECIFIED BY THE COMPANY, SPECIFIC GRAVITY SHALL BE A MINIMUM OF 1.25.

**SHEET 24 & 25 NOTES:**

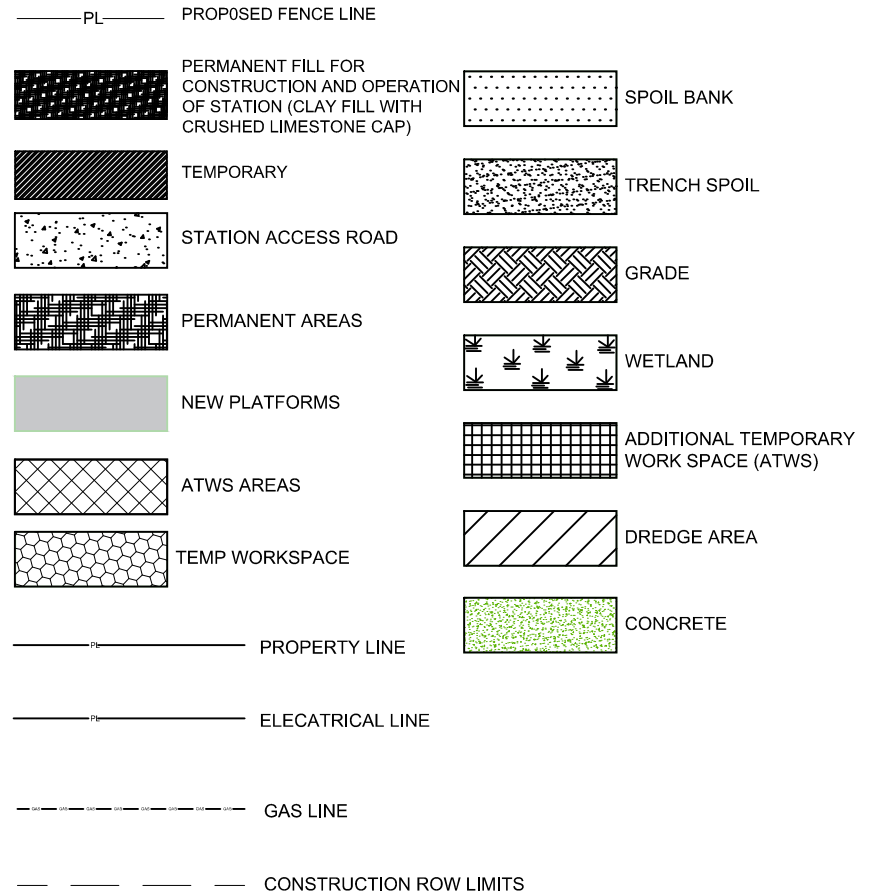
1. PILING LOCATIONS, SIZES, QUANTITY AND DETAILS TO BE CONFIRMED AFTER GEOTECH ANALYSIS IS COMPLETED.

**SHEET 26 NOTES:**

1. PILING WILL BE REMOVED AND REINSTALLED (LIKE-FOR-LIKE) UTILIZING MECHANIZED EQUIPMENT FROM BARGE PLATFORM. ASIDE FROM INCIDENTAL FALL BACK. NO ADDITIONAL DREDGE OR FILL ACTIVITY PROPOSED.
2. PILES TO BE PUSHED INTO NATIVE MATERIAL NO LESS THEN 2/3 THEIR TOTAL LENGTH.

**SHEET 27 NOTES:**

1. FOR INFORMATIONAL PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION. FINAL DESIGN TO BE DONE BY CONTRACTOR.
2. SHEETPILE WILL BE INSTALLED AND REMOVED UTILIZING MECHANIZED EQUIPMENT FROM BARGE PLATFORM, DREDGE MATERIAL WILL BE REMOVED BY LONG REACH EXCAVATOR AND SIDECASTED.



Sheet - 28  
USACE-MVN

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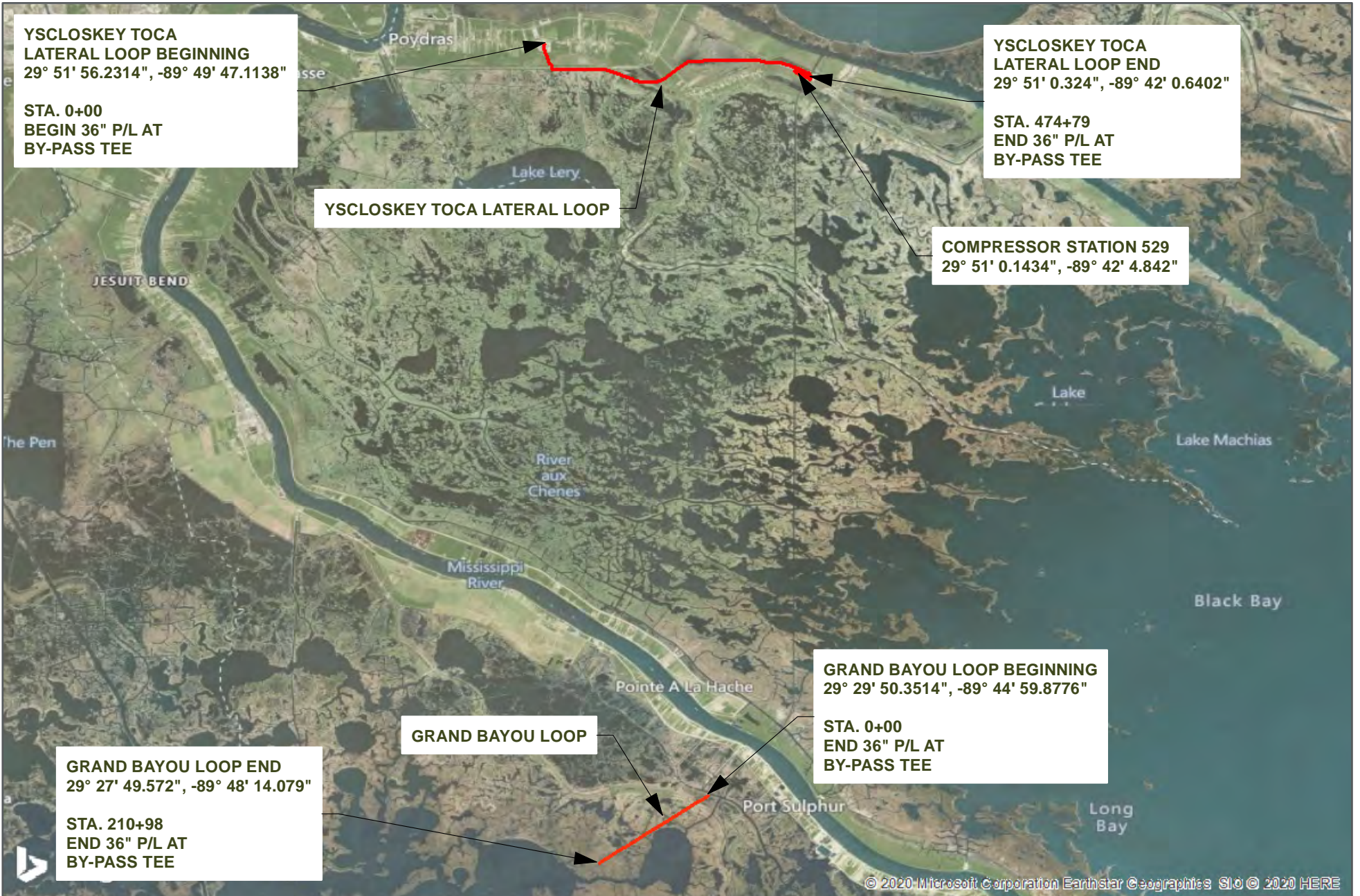
**Notes**

Evangeline Pass Expansion Project  
Plaquemines & St. Bernard Parish, Louisiana




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**Vicinity Map**  
**Sheet 29**

**Evangeline Pass Expansion Project**  
**St. Bernard & Plaquemines Parish, Louisiana**





**Tennessee Gas Pipeline Company, L.L.C.**  
 a Kinder Morgan company

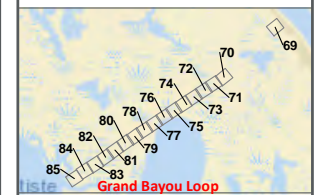
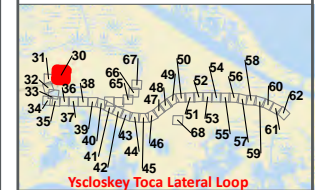




**Plan View  
Sheet 30  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

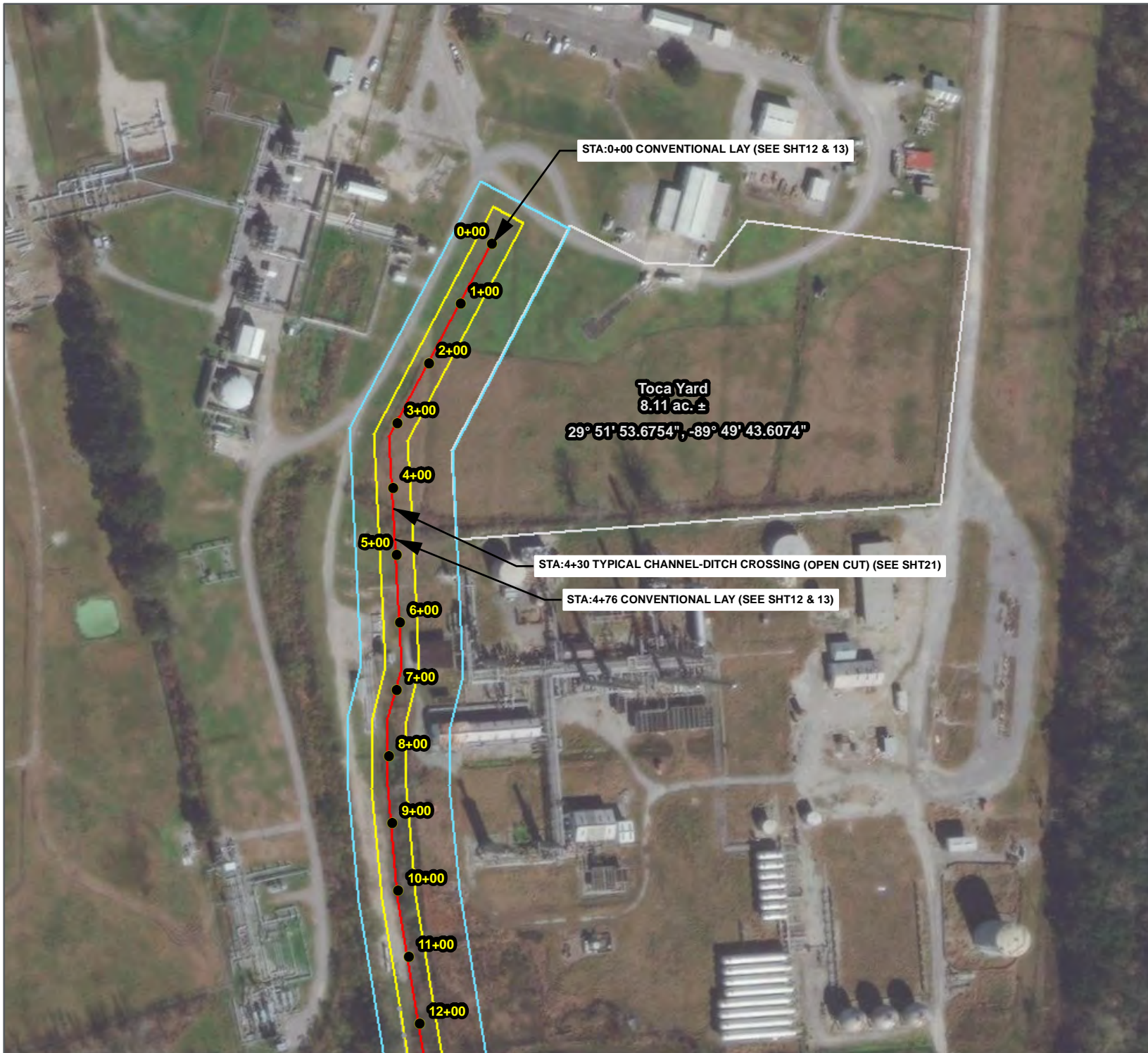
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



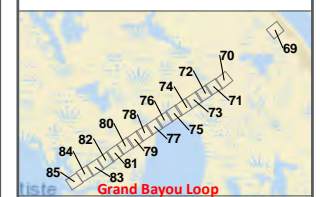
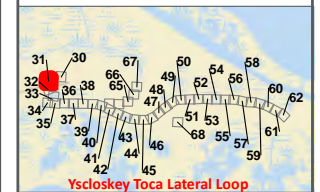




**Plan View  
Sheet 31  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







### Plan View Sheet 32

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0      100      200 Feet

Yscloskey Toca Lateral Loop

Grand Bayou Loop

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

**Cardno**

**Tennessee Gas Pipeline  
Company, L.L.C.**



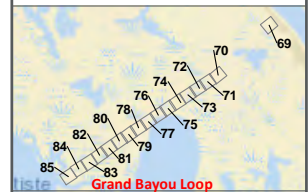
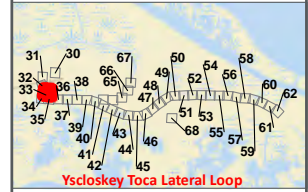


### Plan View Sheet 33

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet

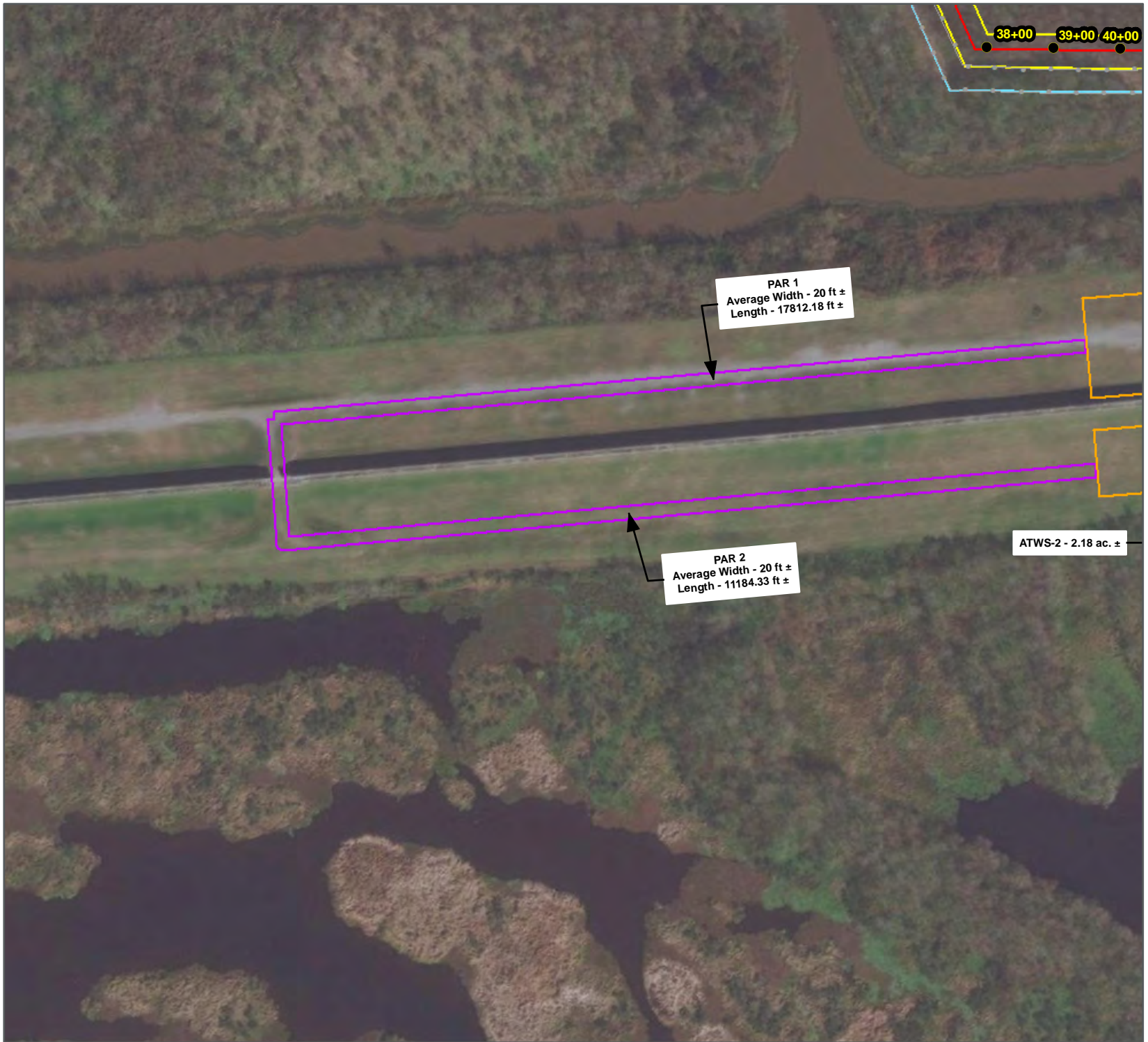


STA:42+82 TYPICAL CHANNEL-DITCH  
CROSSING (OPEN CUT) (SEE SHT21)

| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







PAR 1  
Average Width - 20 ft ±  
Length - 17812.18 ft ±

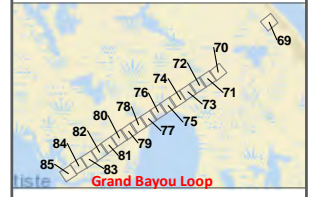
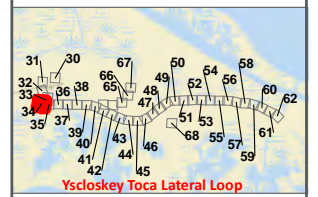
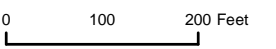
PAR 2  
Average Width - 20 ft ±  
Length - 11184.33 ft ±

ATWS-2 - 2.18 ac. ±

# Plan View Sheet 34

## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

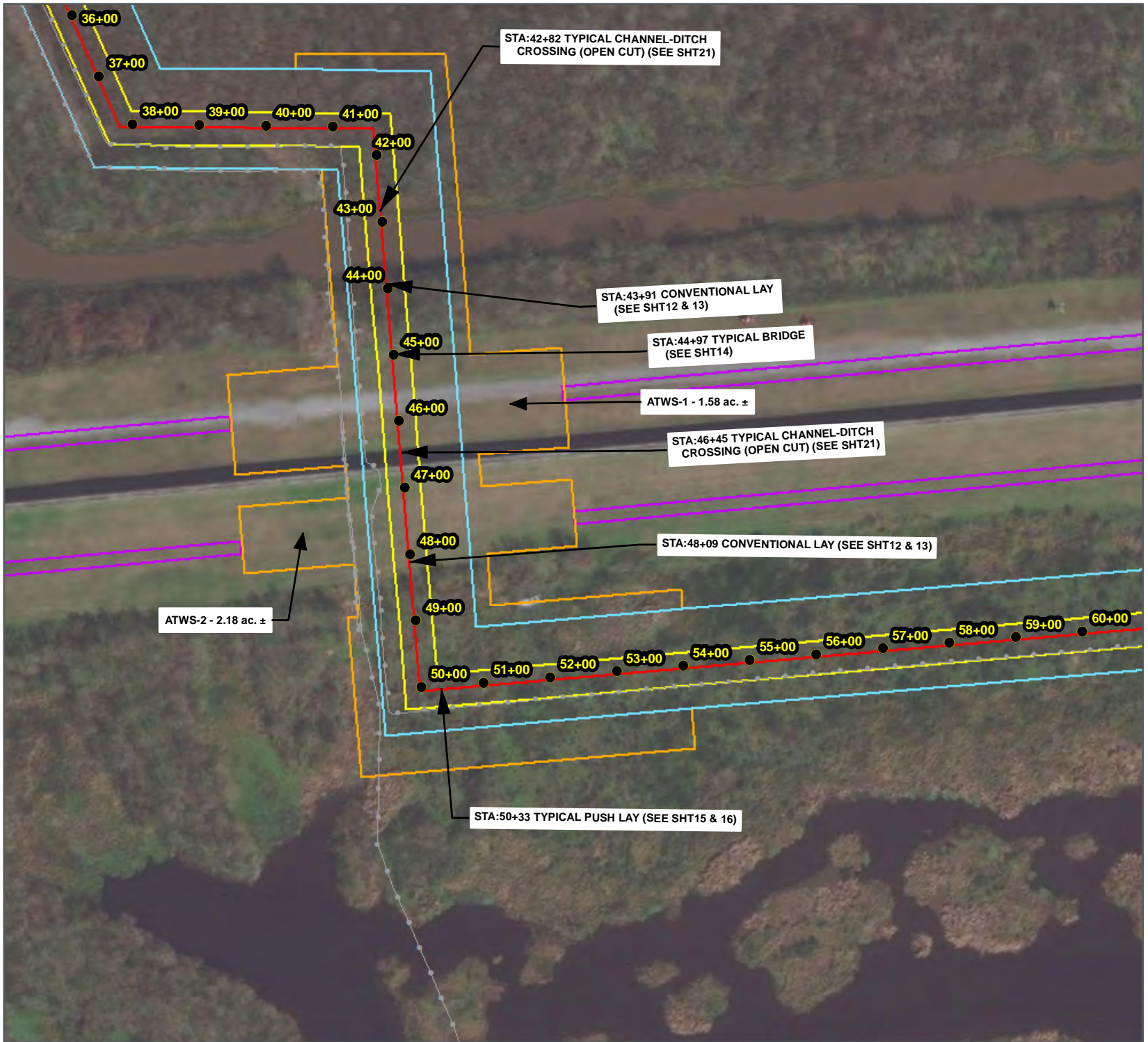
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



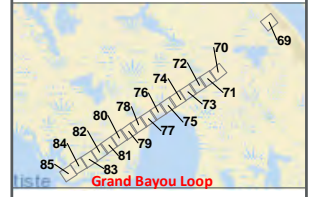
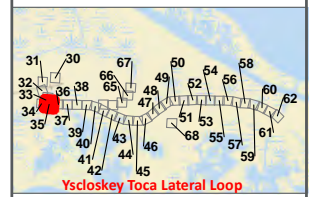
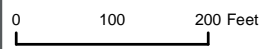




# Plan View Sheet 35

## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



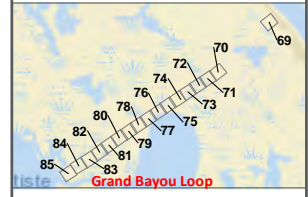
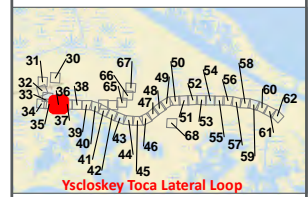
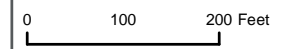
| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



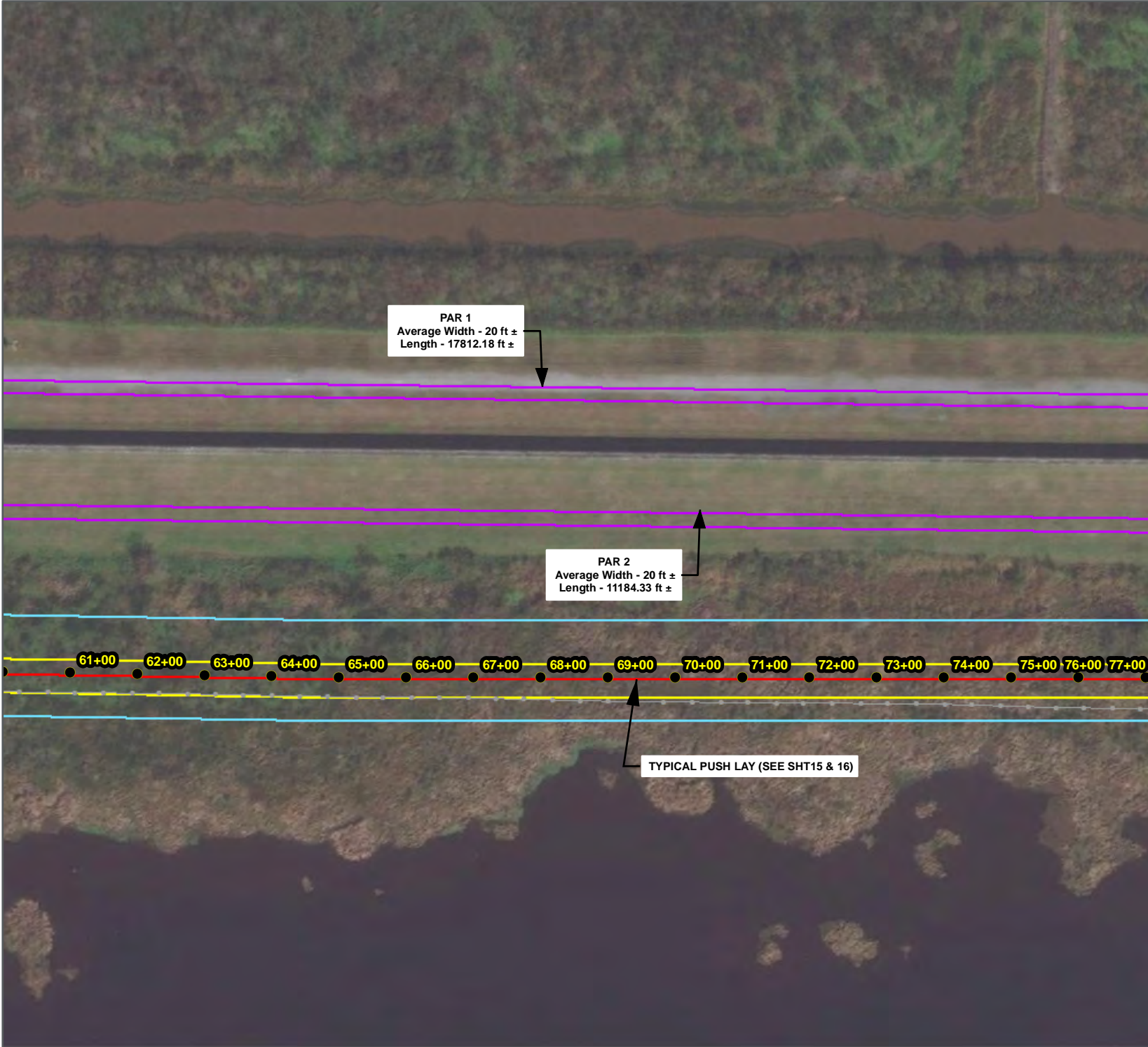


**Plan View**  
**Sheet 36**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



PAR 1  
 Average Width - 20 ft ±  
 Length - 17812.18 ft ±

PAR 2  
 Average Width - 20 ft ±  
 Length - 11184.33 ft ±

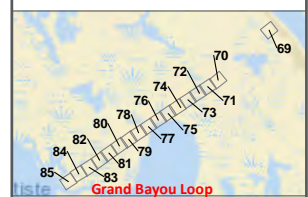
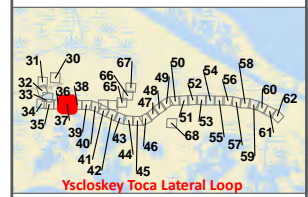
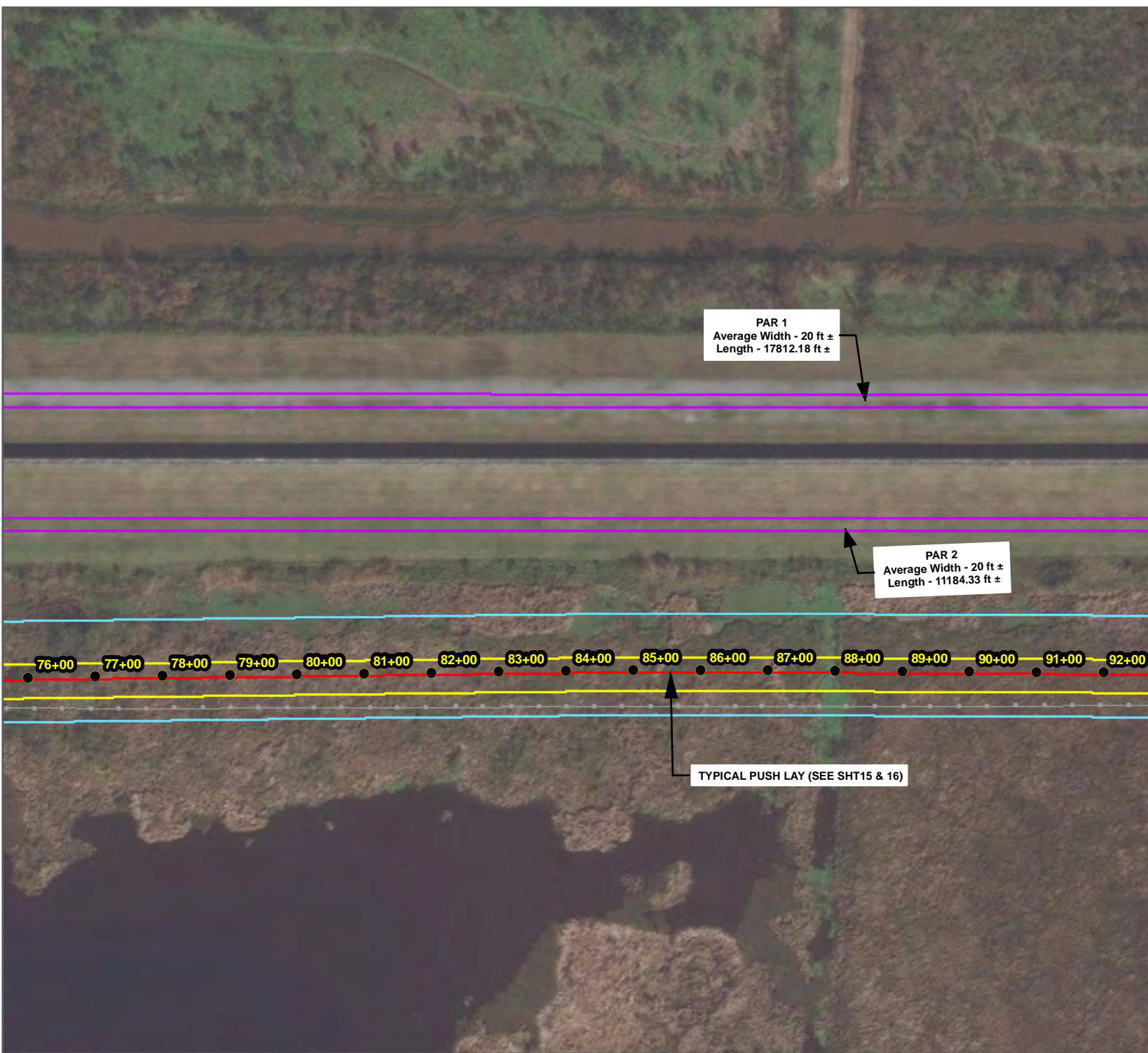
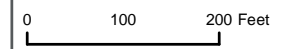
TYPICAL PUSH LAY (SEE SHT15 & 16)



# Plan View Sheet 37

## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

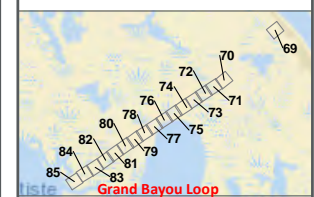
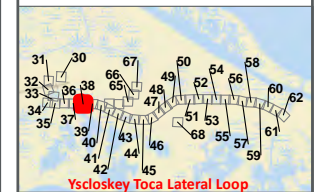




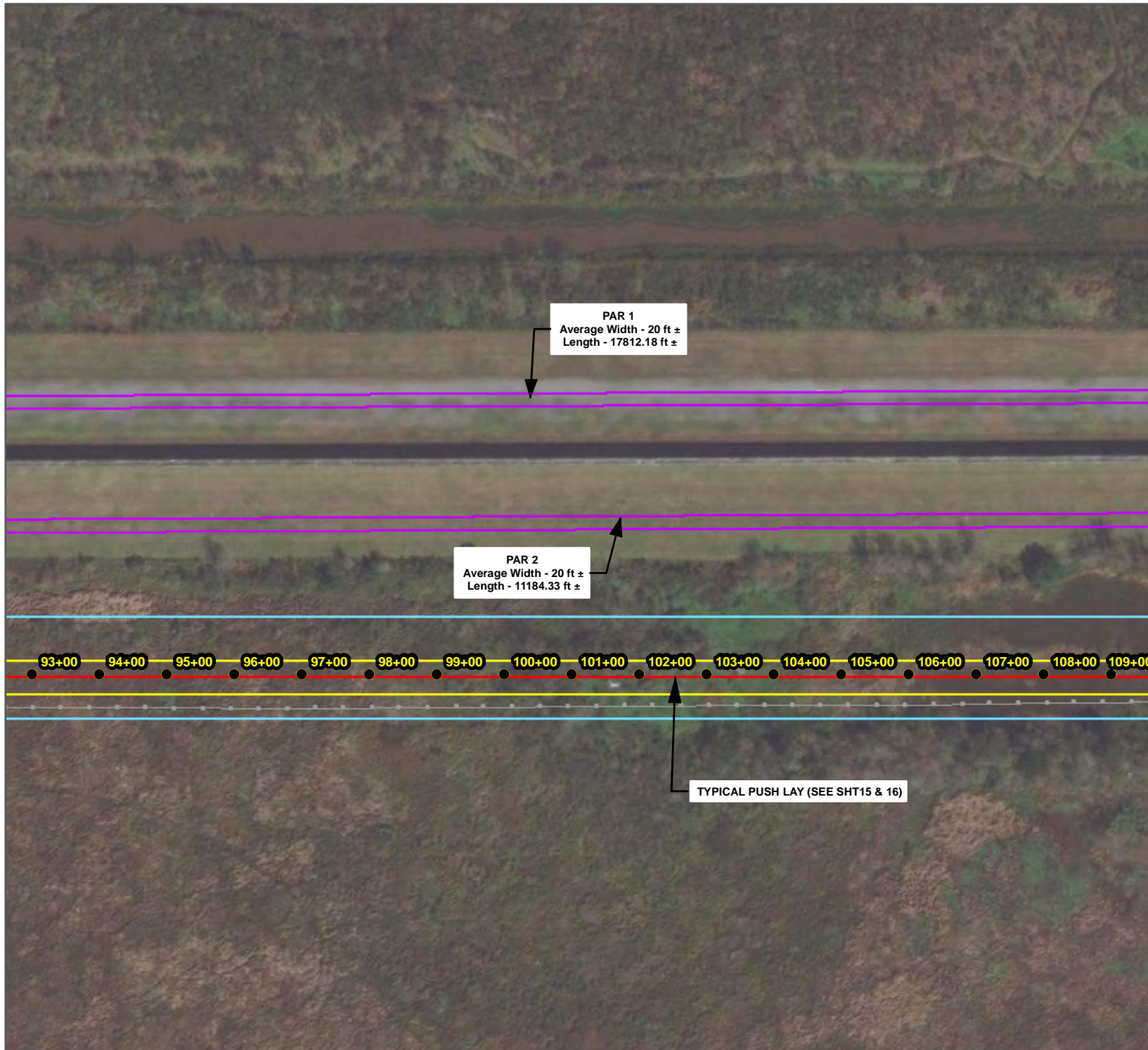
**Plan View  
Sheet 38  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

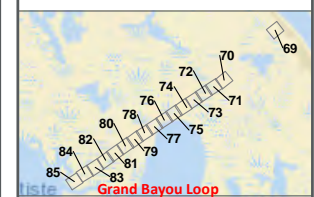
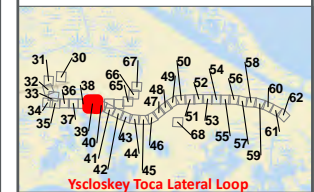




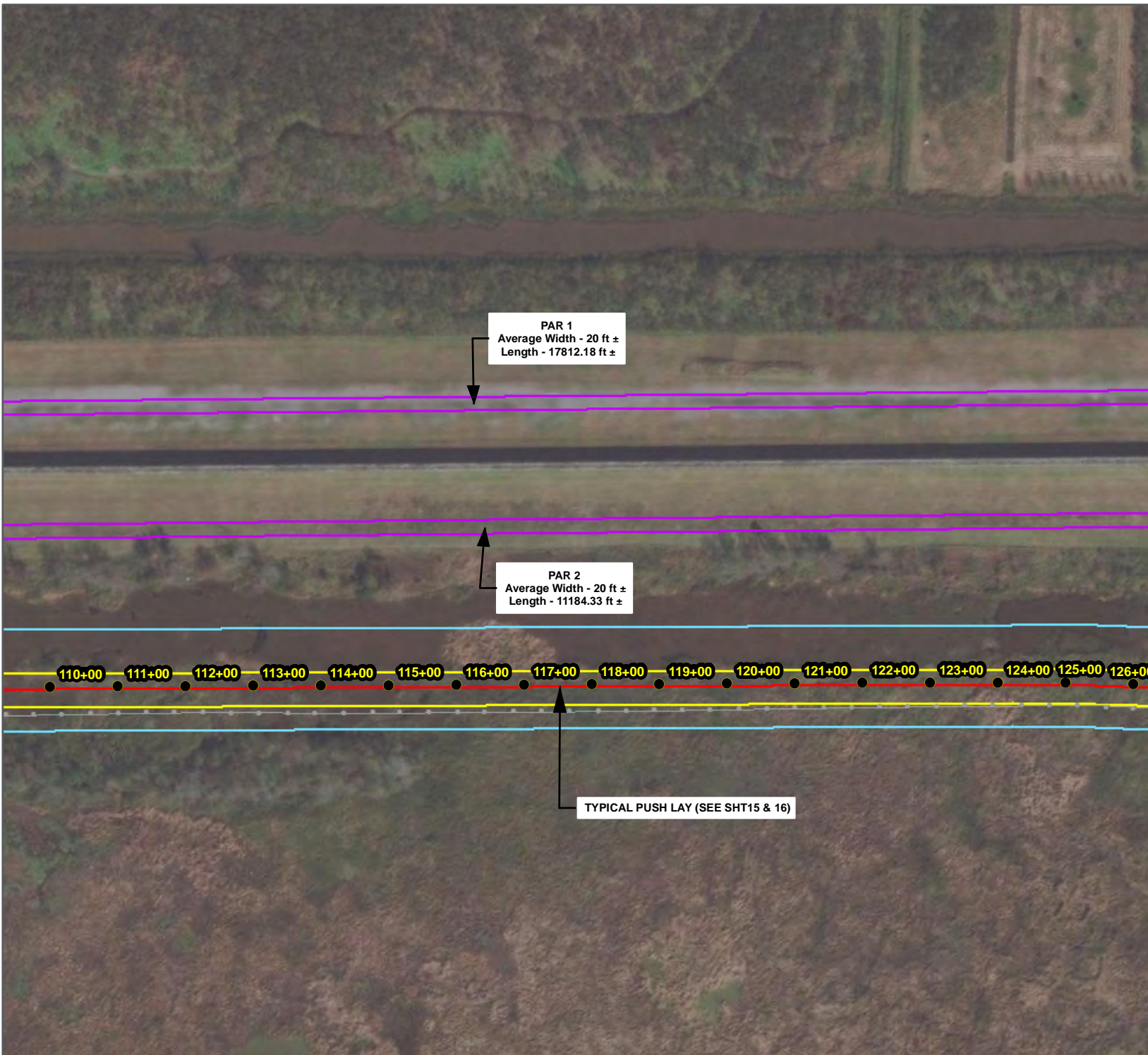
**Plan View  
Sheet 39**  
**Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

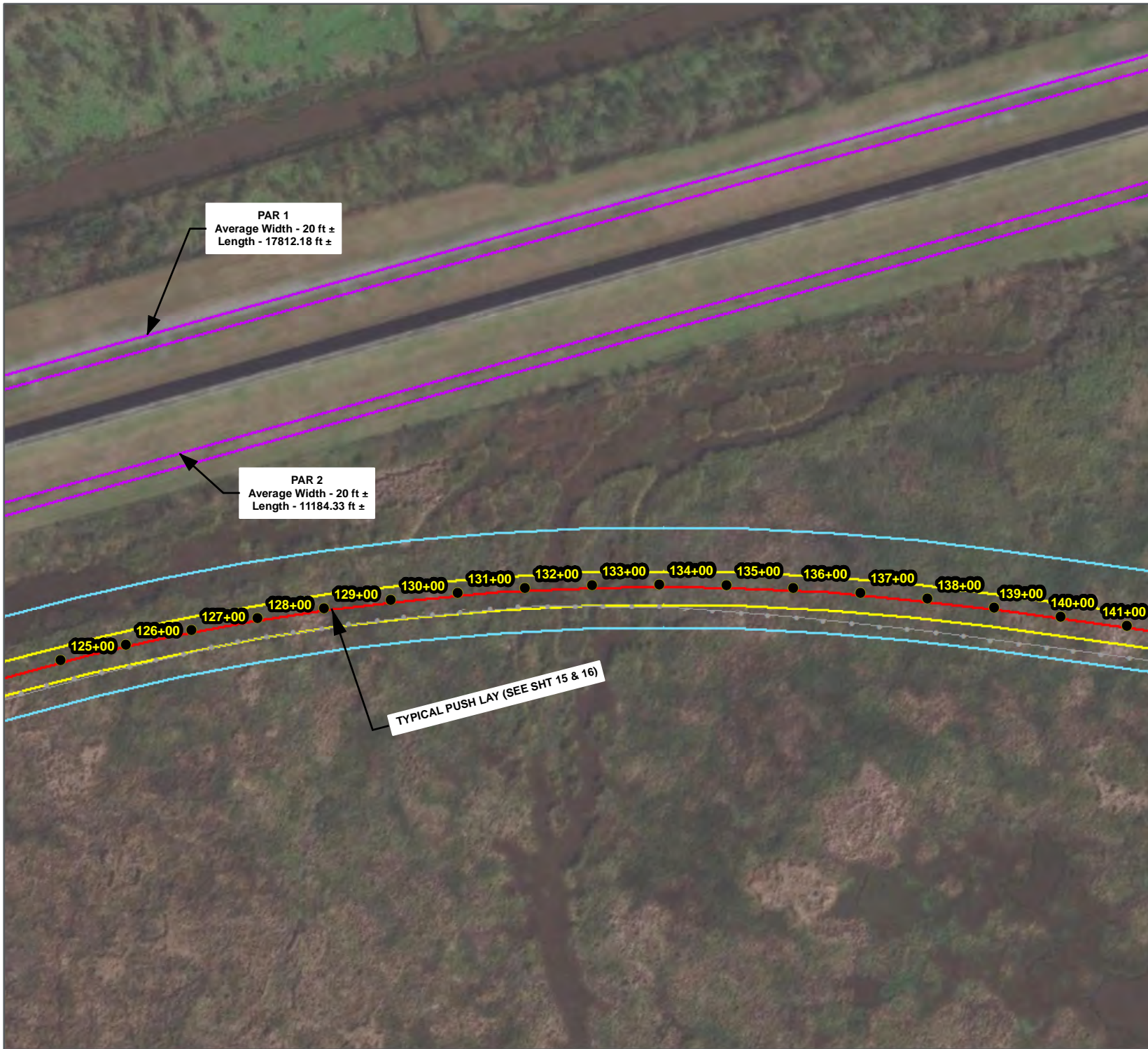
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |





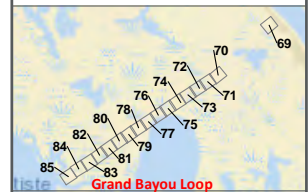
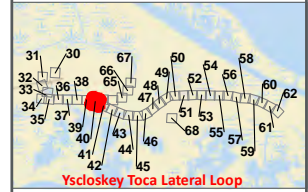


### Plan View Sheet 40

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

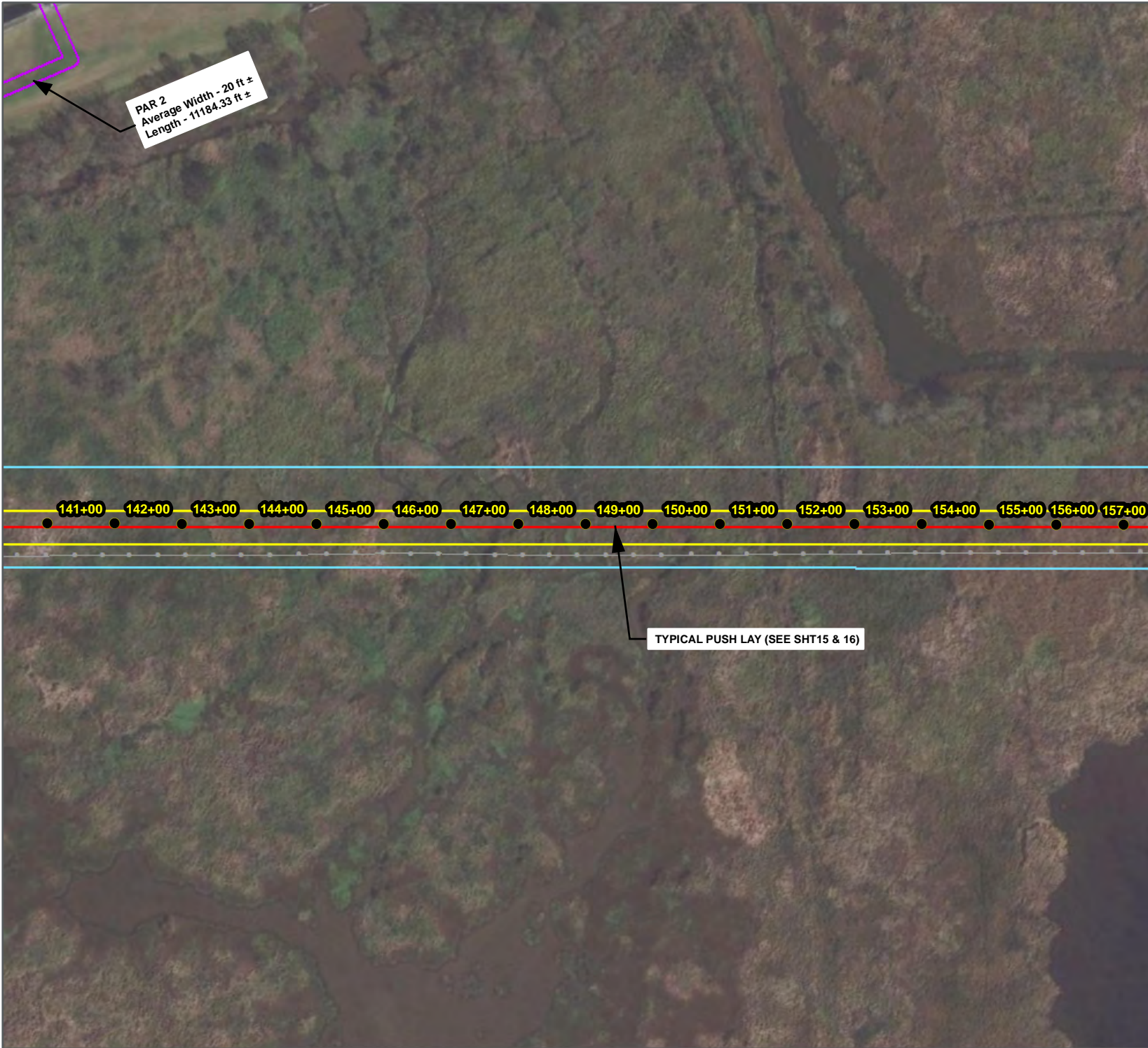
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |





PAR 2  
Average Width - 20 ft ±  
Length - 11184.33 ft ±

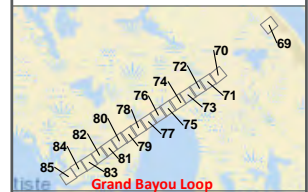
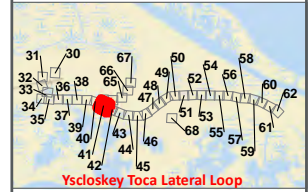
TYPICAL PUSH LAY (SEE SHT 15 & 16)

### Plan View Sheet 41

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▨ Permanent Workspace
- ▨ Temporary Workspace
- ▨ Additional Temporary Workspace
- ▨ Access Canal
- ▨ Access Roads
- ▨ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

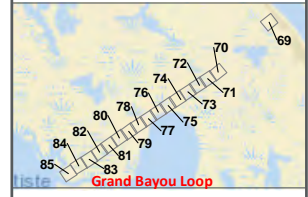
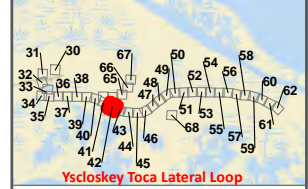
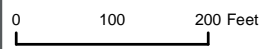






**Plan View**  
**Sheet 42**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |                |      |
|-------------------------------|----------------|------|
| MAX MEAN                      | 1.69'          | FEET |
| MIN MEAN                      | -0.0733333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |                |      |
| 073745253 REGGIO CANAL        |                |      |





# Plan View Sheet 43

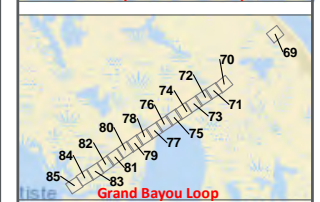
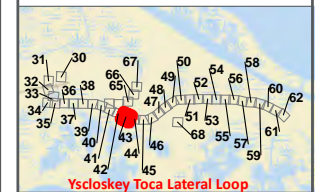
## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



TYPICAL PUSH LAY (SEE SHT15 & 16)



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

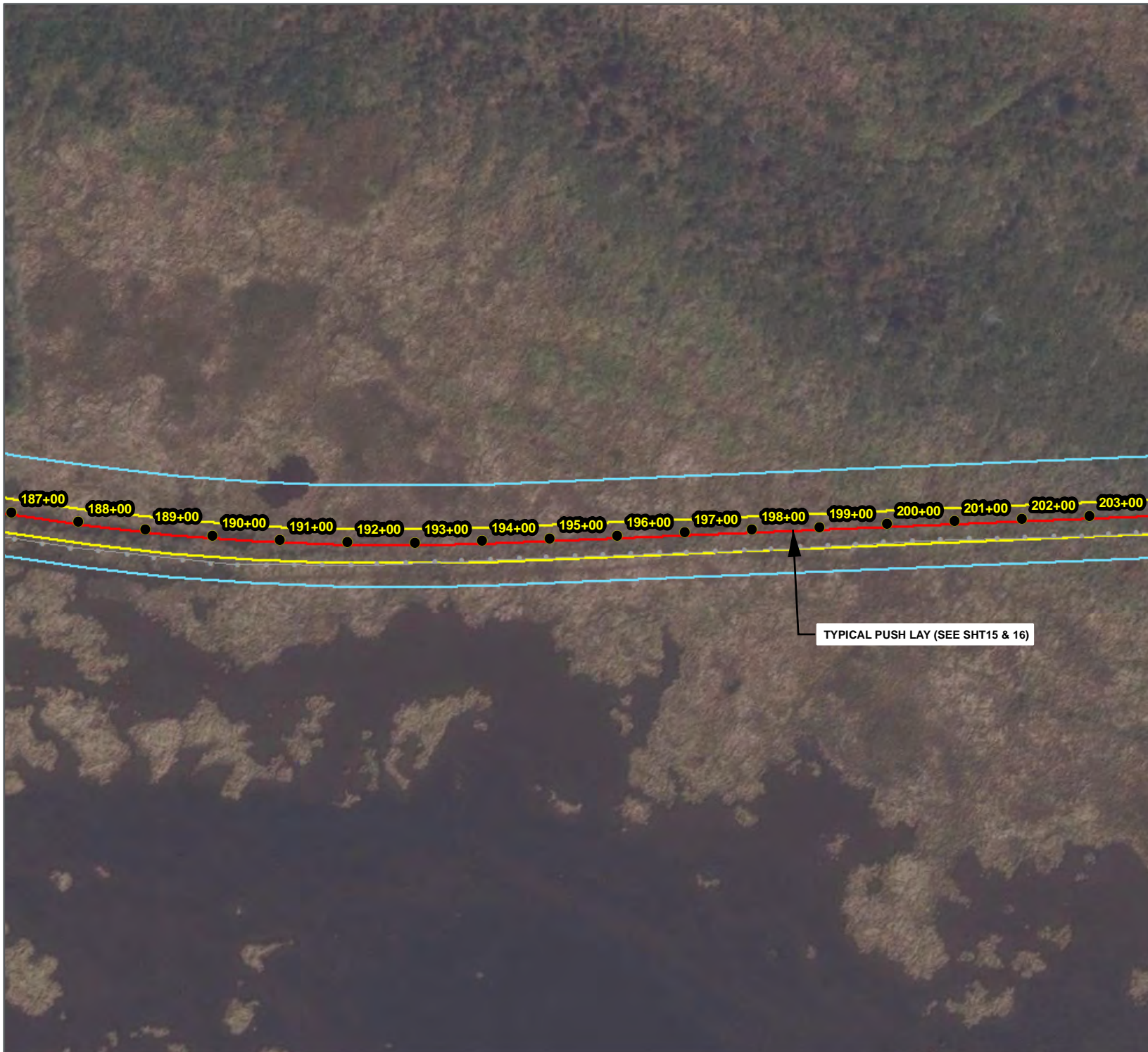




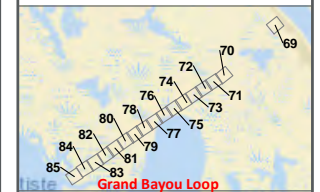
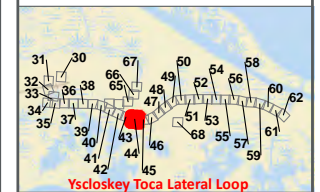
**Plan View**  
**Sheet 44**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



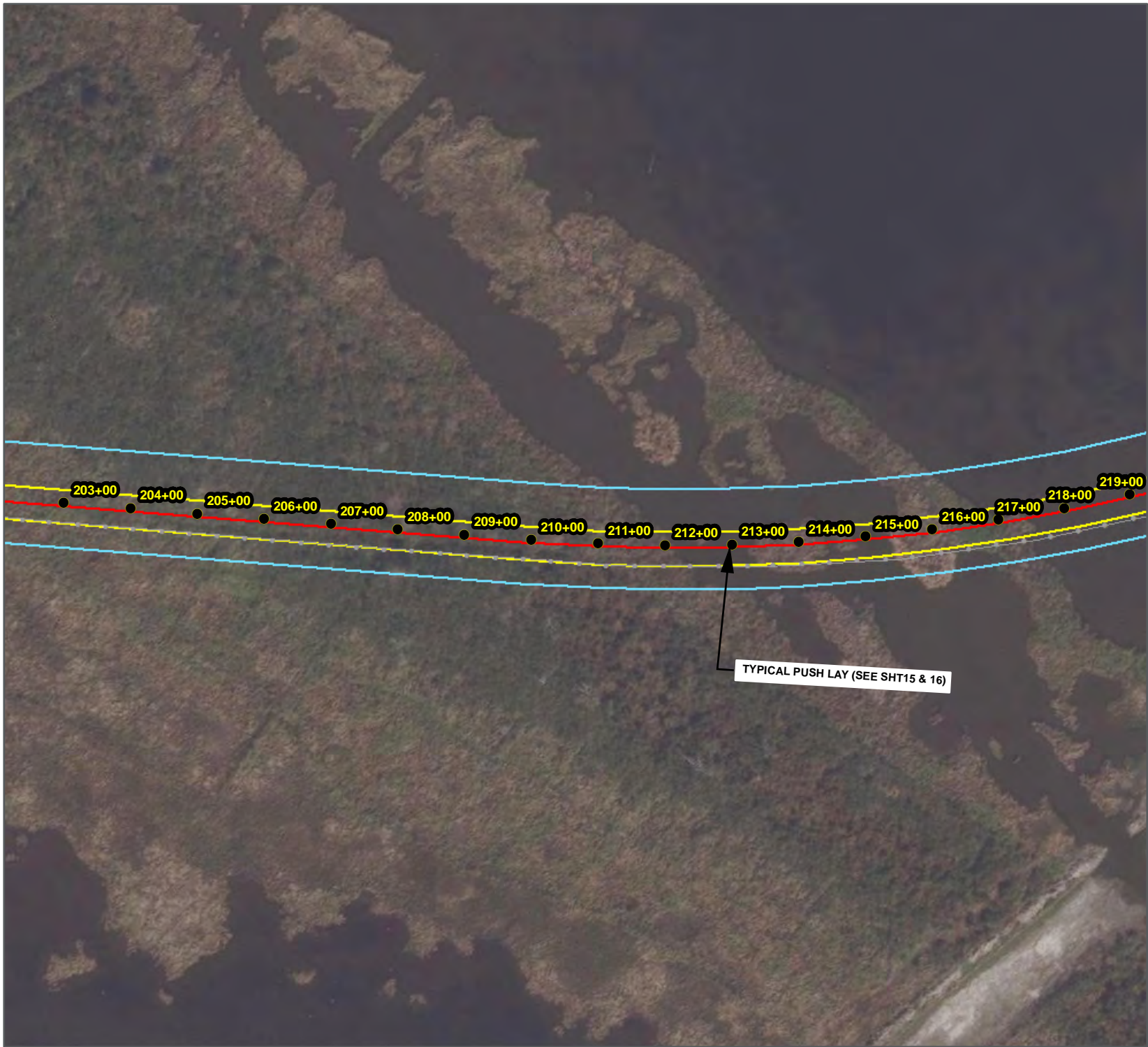
TYPICAL PUSH LAY (SEE SHT 15 & 16)



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

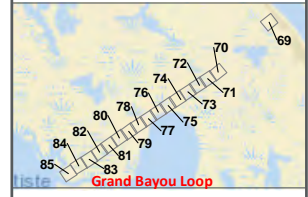
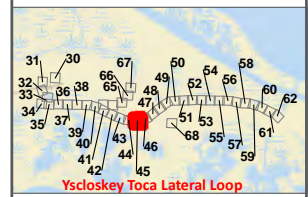
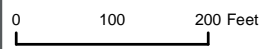






**Plan View**  
**Sheet 45**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

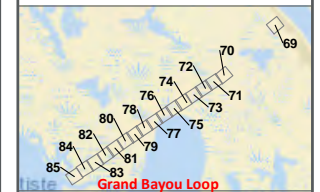
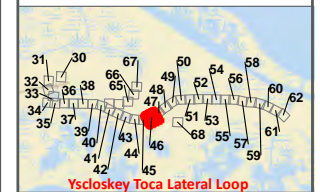
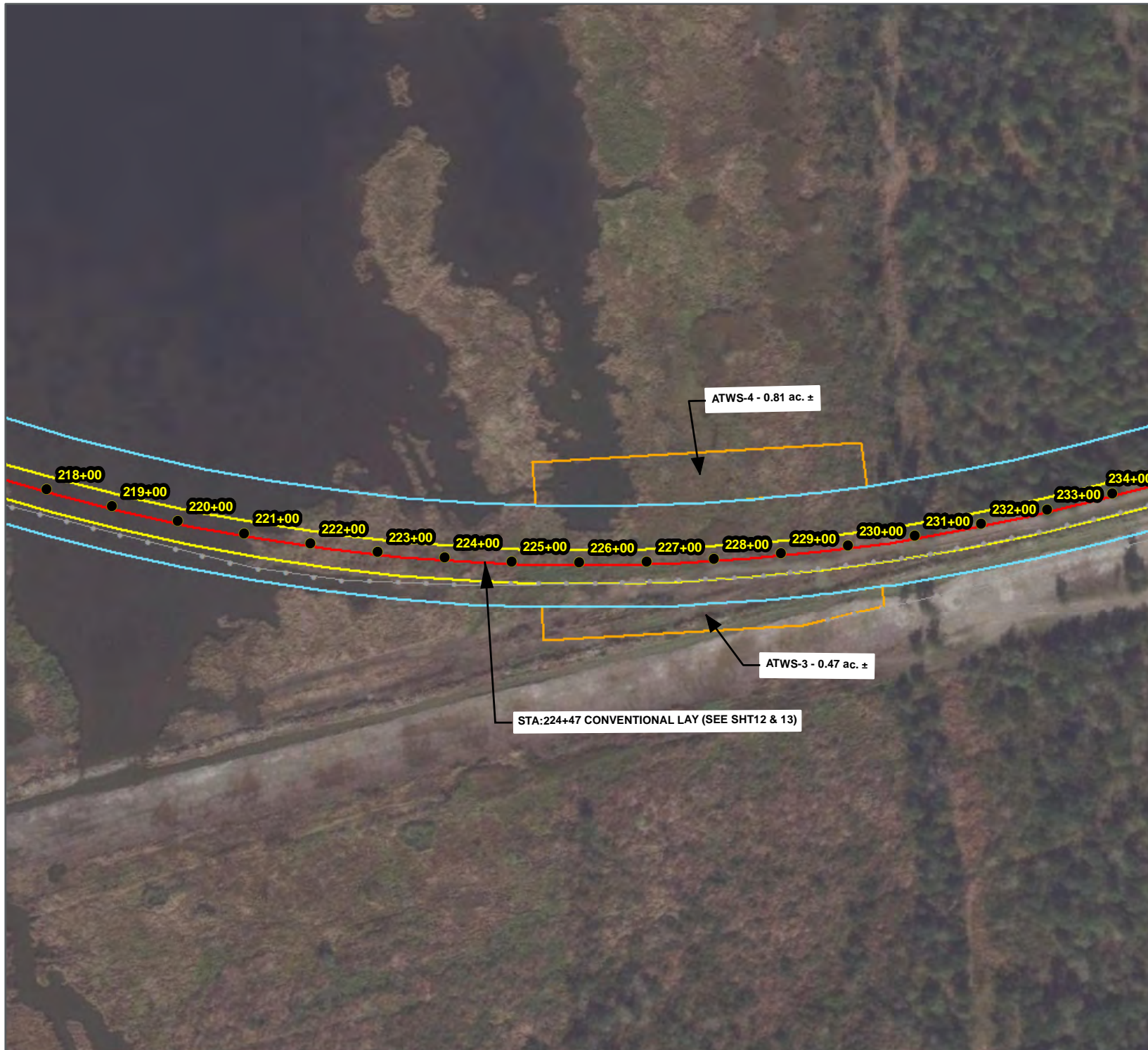




**Plan View**  
**Sheet 46**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

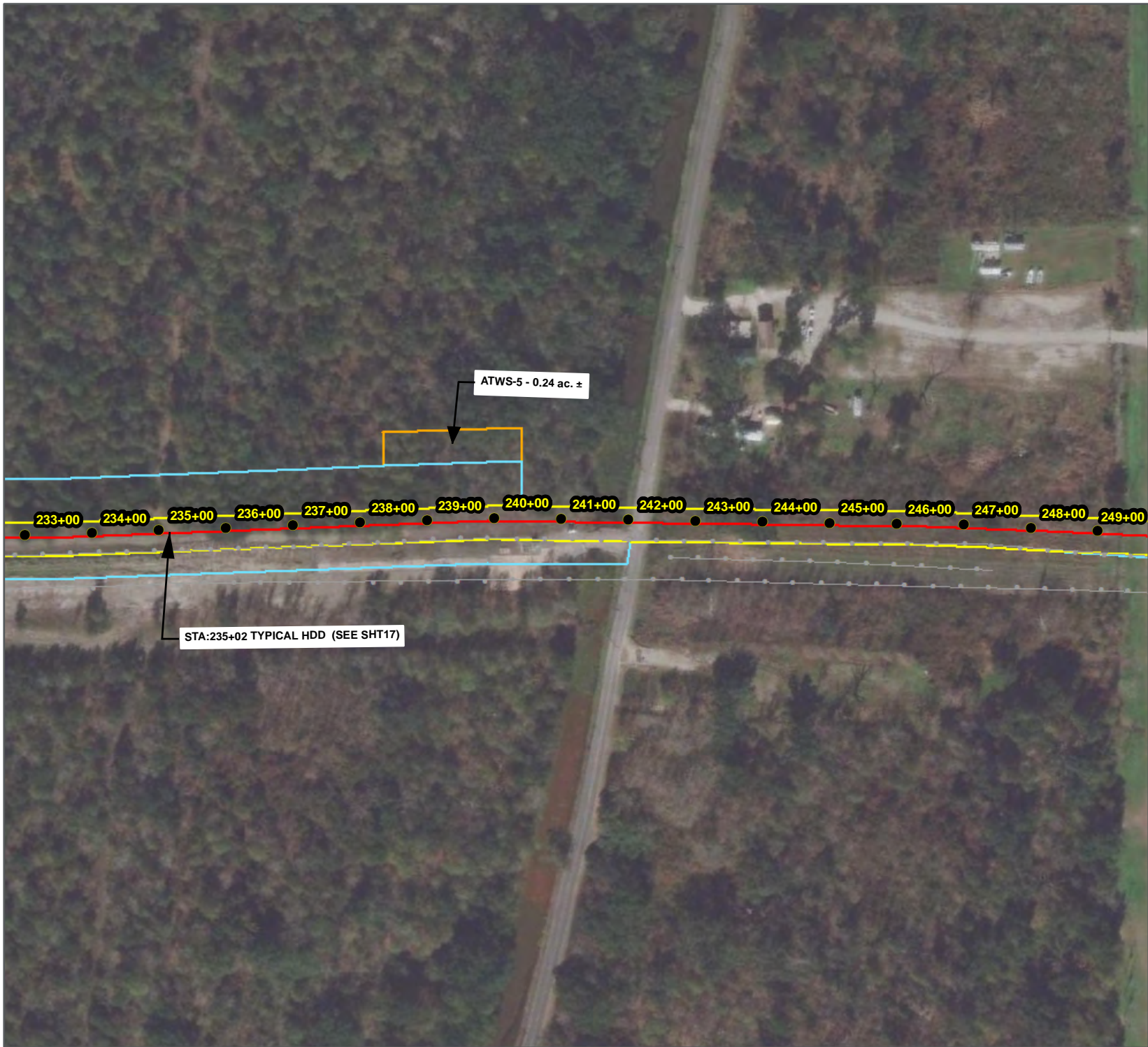
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

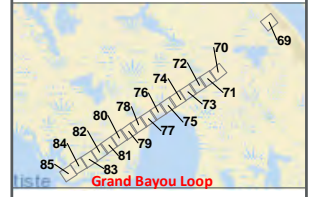
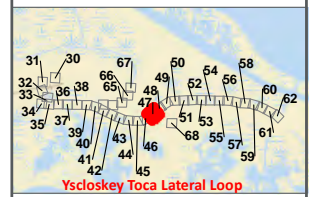
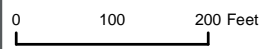






**Plan View  
Sheet 47  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

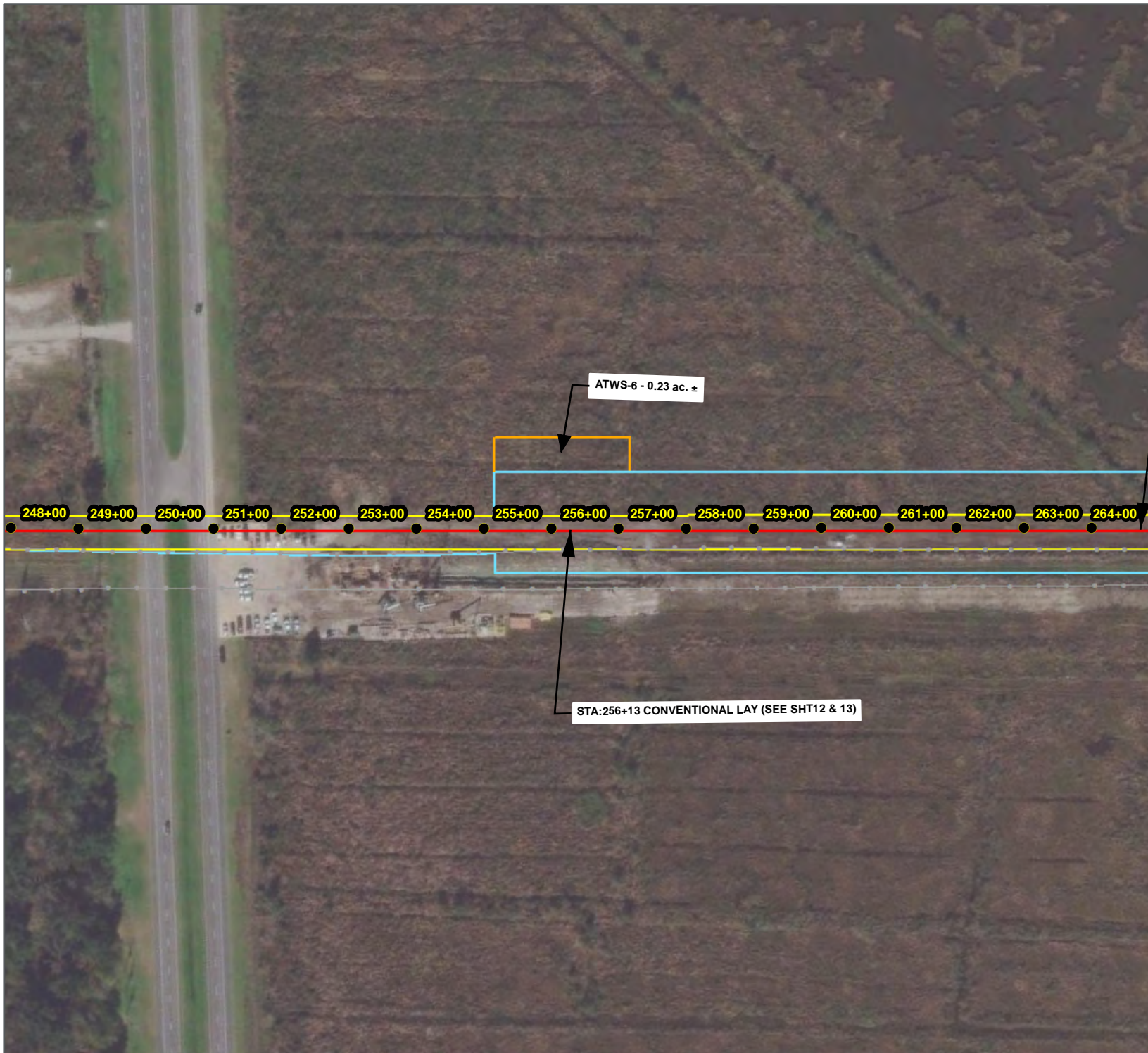
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



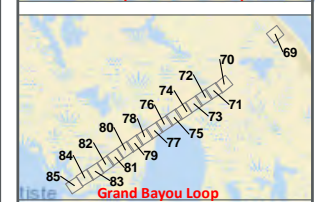
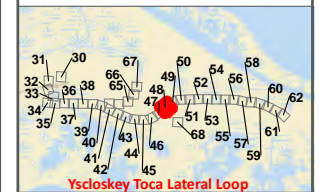




**Plan View  
Sheet 48  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

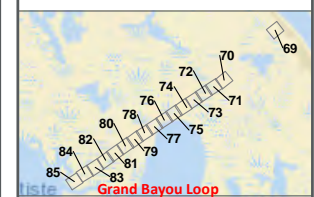
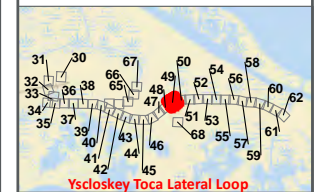




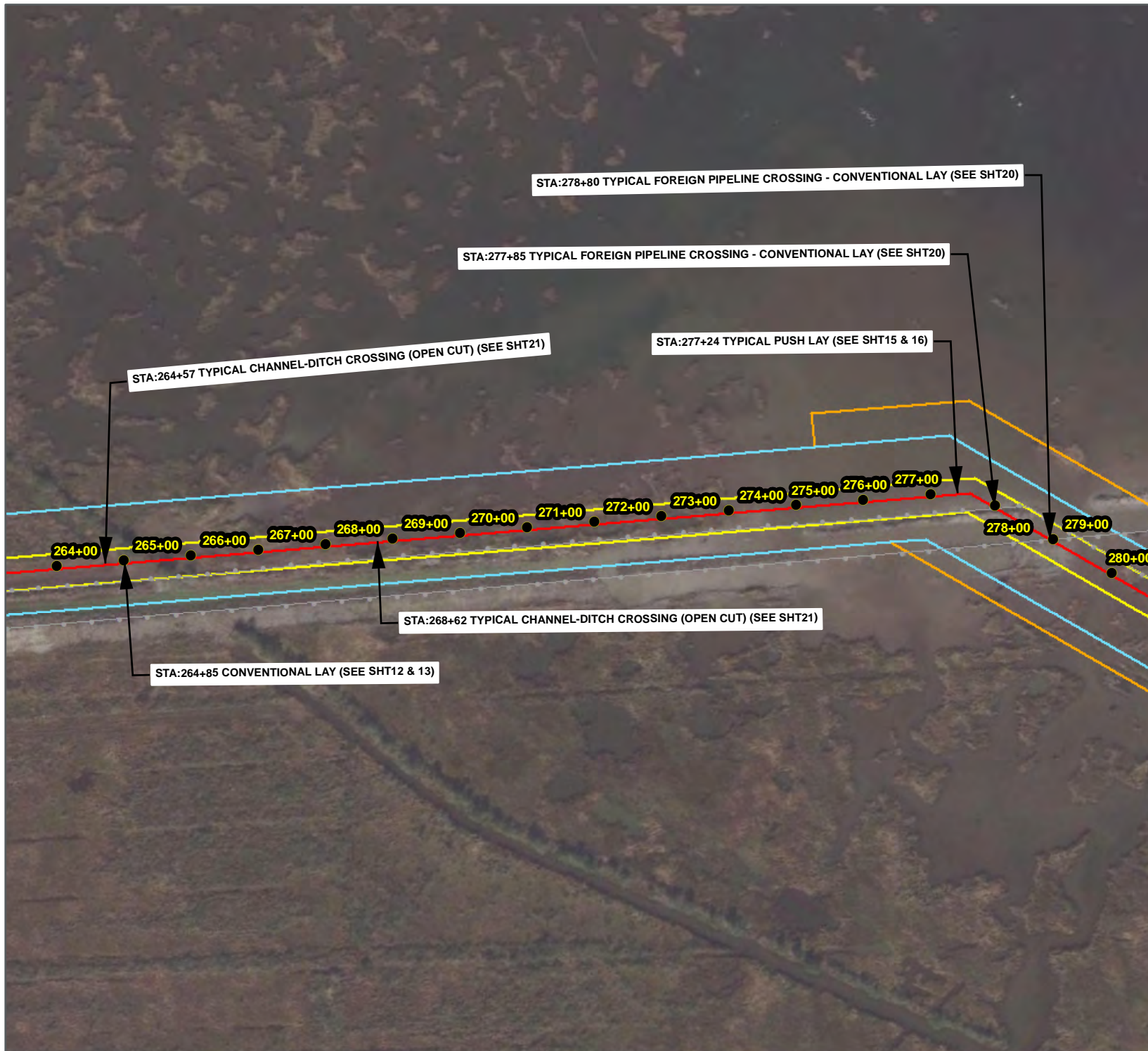
**Plan View  
Sheet 49  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

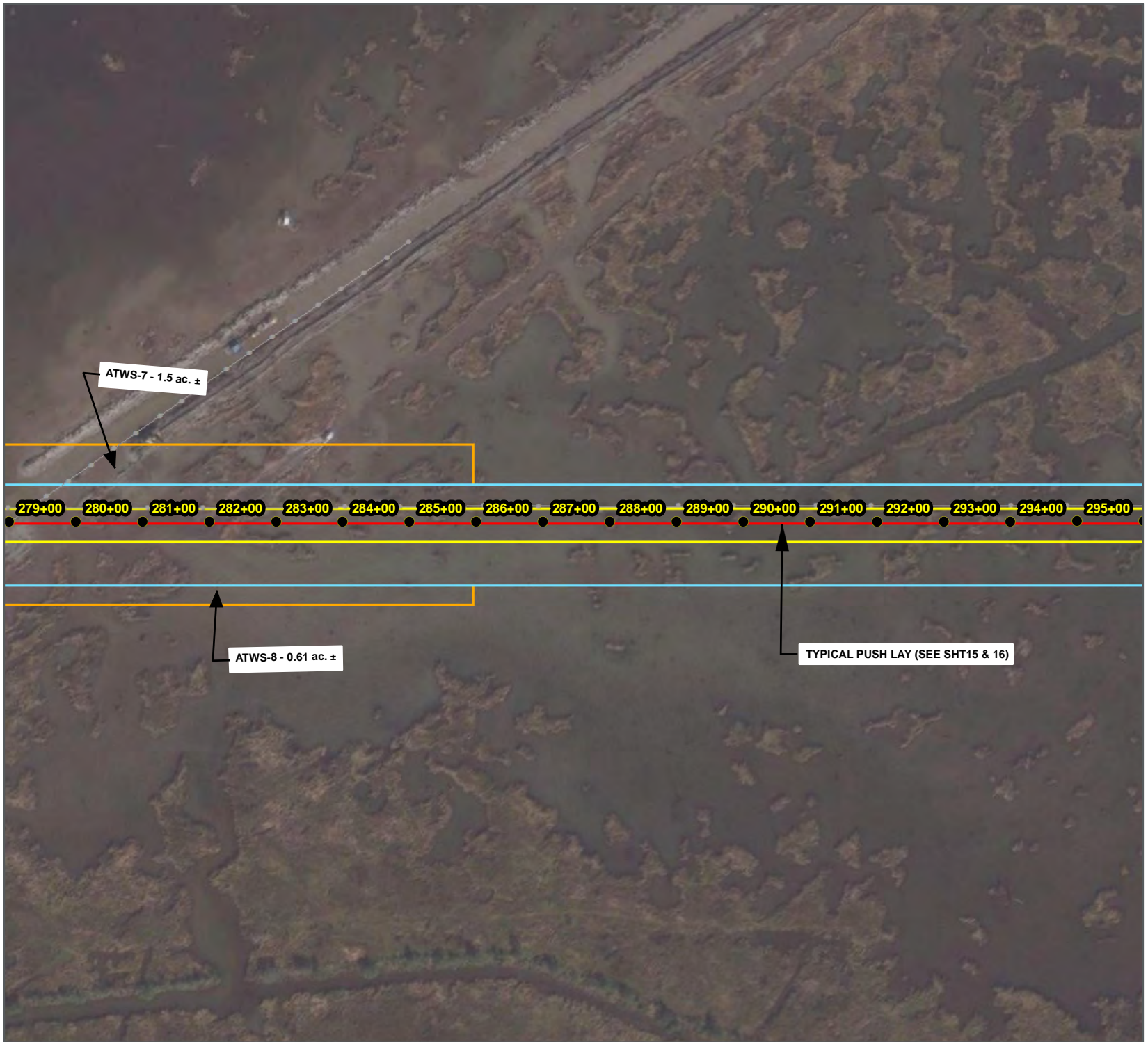
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

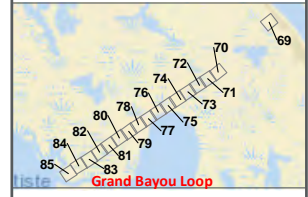
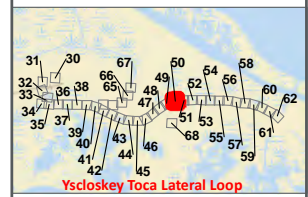
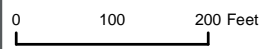






**Plan View  
Sheet 50**  
**Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

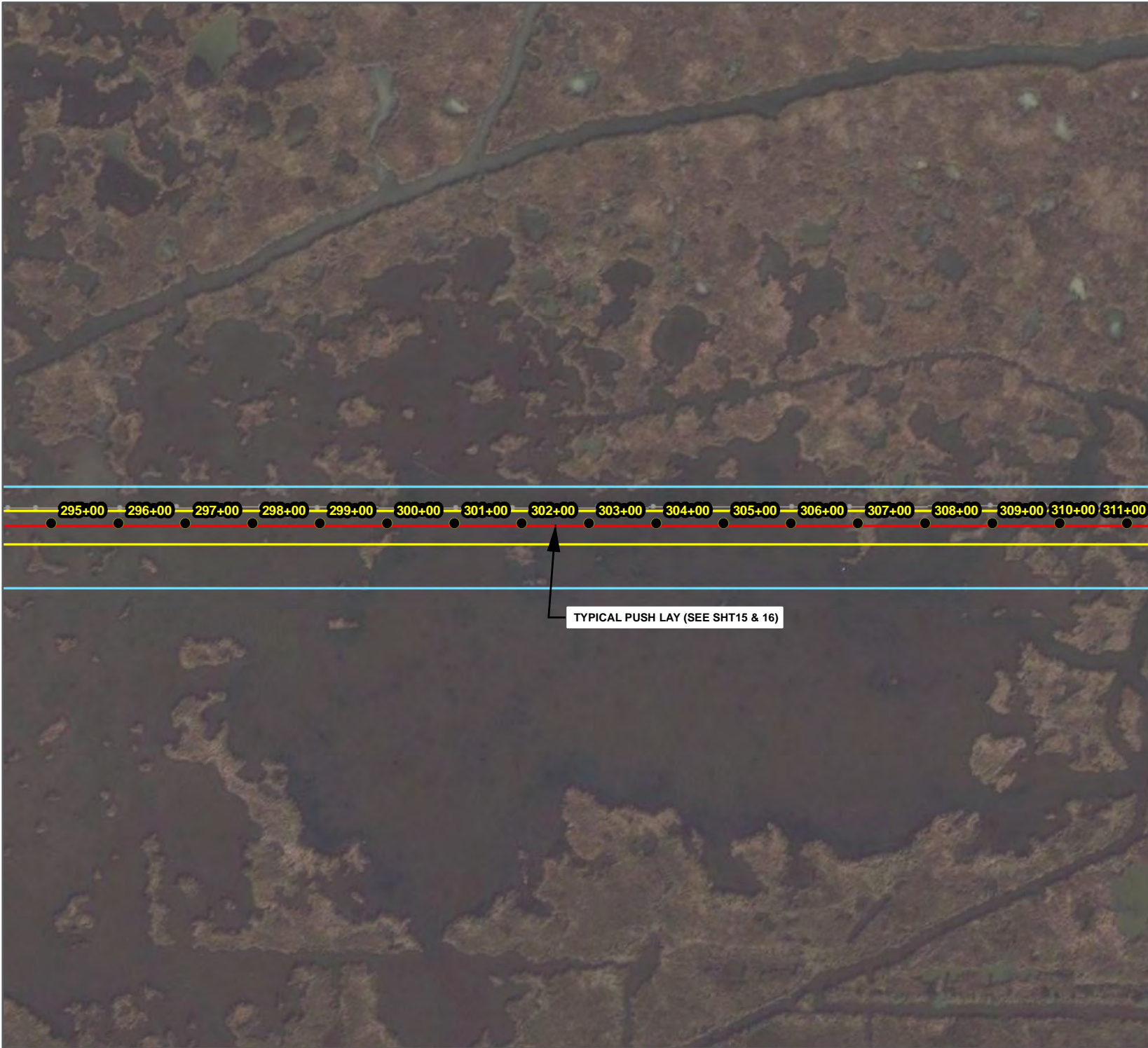
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

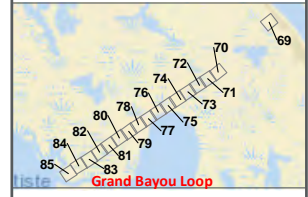
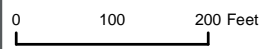






**Plan View**  
**Sheet 51**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



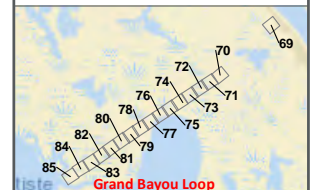
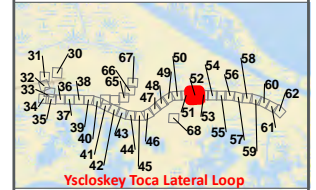




**Plan View  
Sheet 52  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

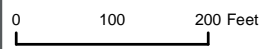




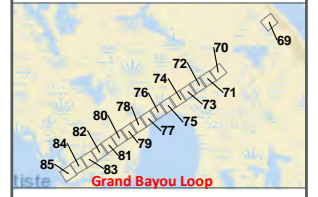
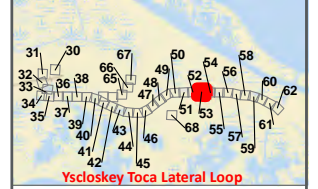


**Plan View**  
**Sheet 53**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



TYPICAL PUSH LAY (SEE SHT15 & 16)



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

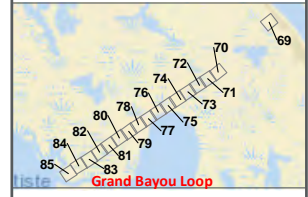
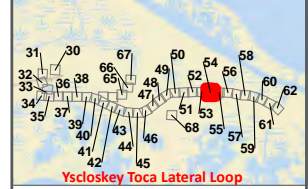
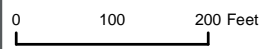






**Plan View  
Sheet 54  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

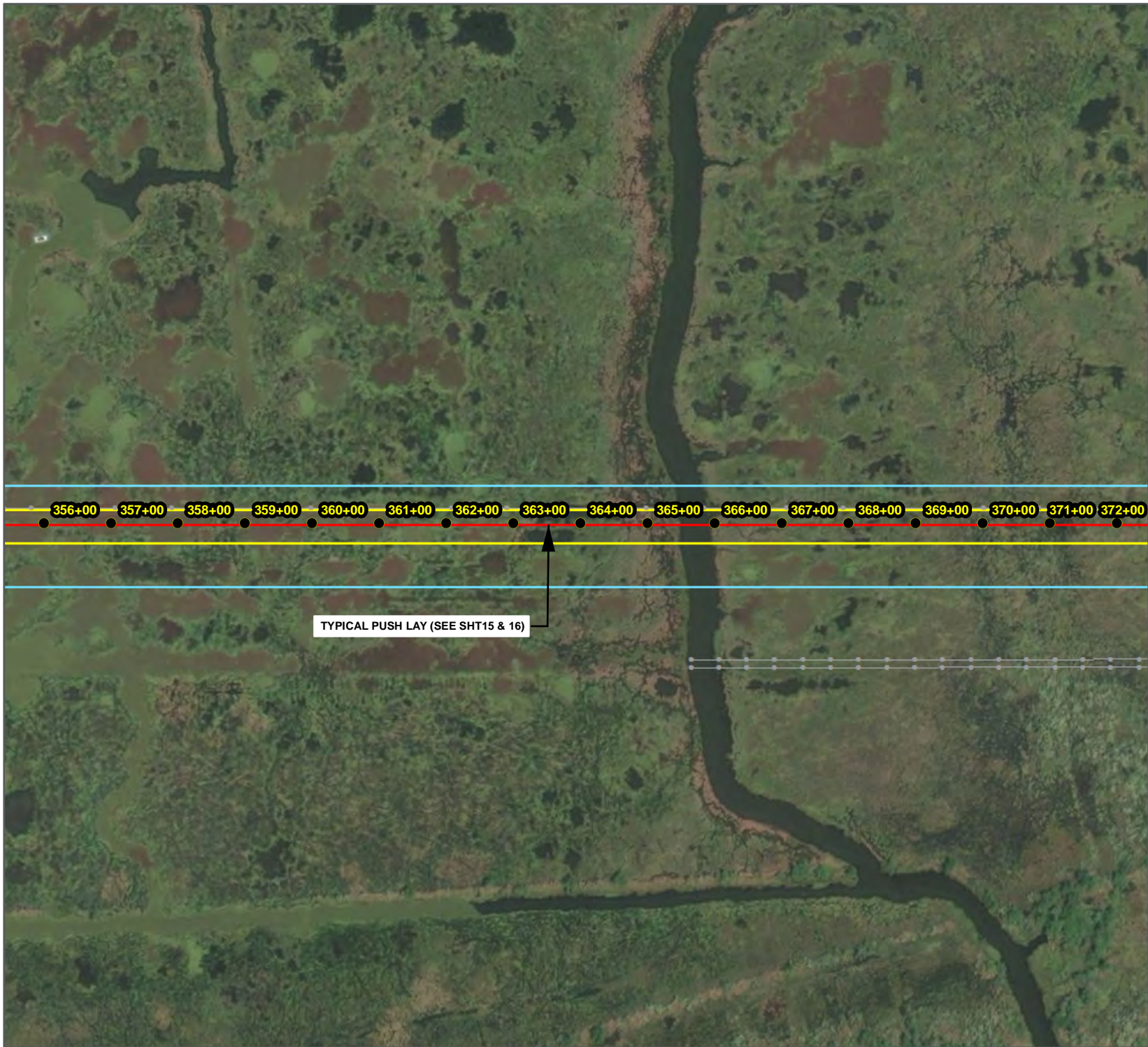
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







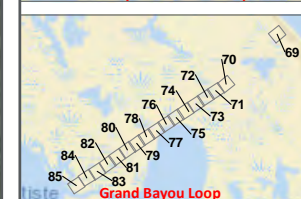
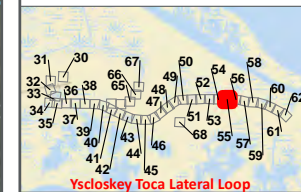
# Plan View

Sheet 55

## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

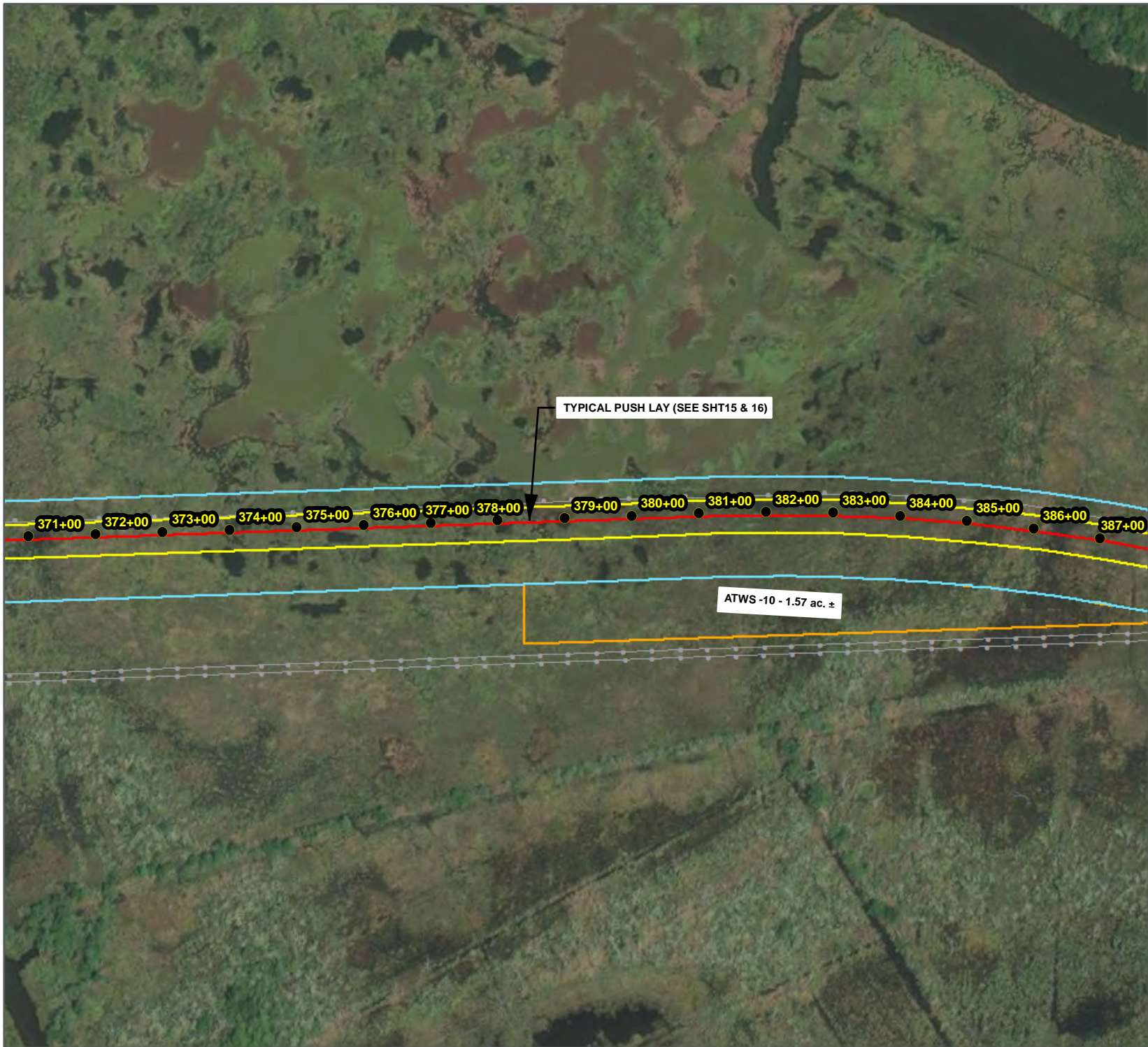
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

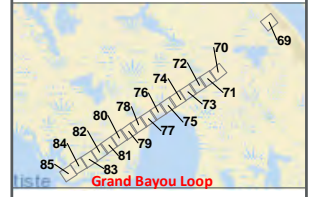
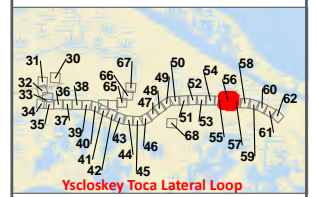
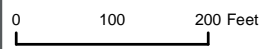






**Plan View  
Sheet 56  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

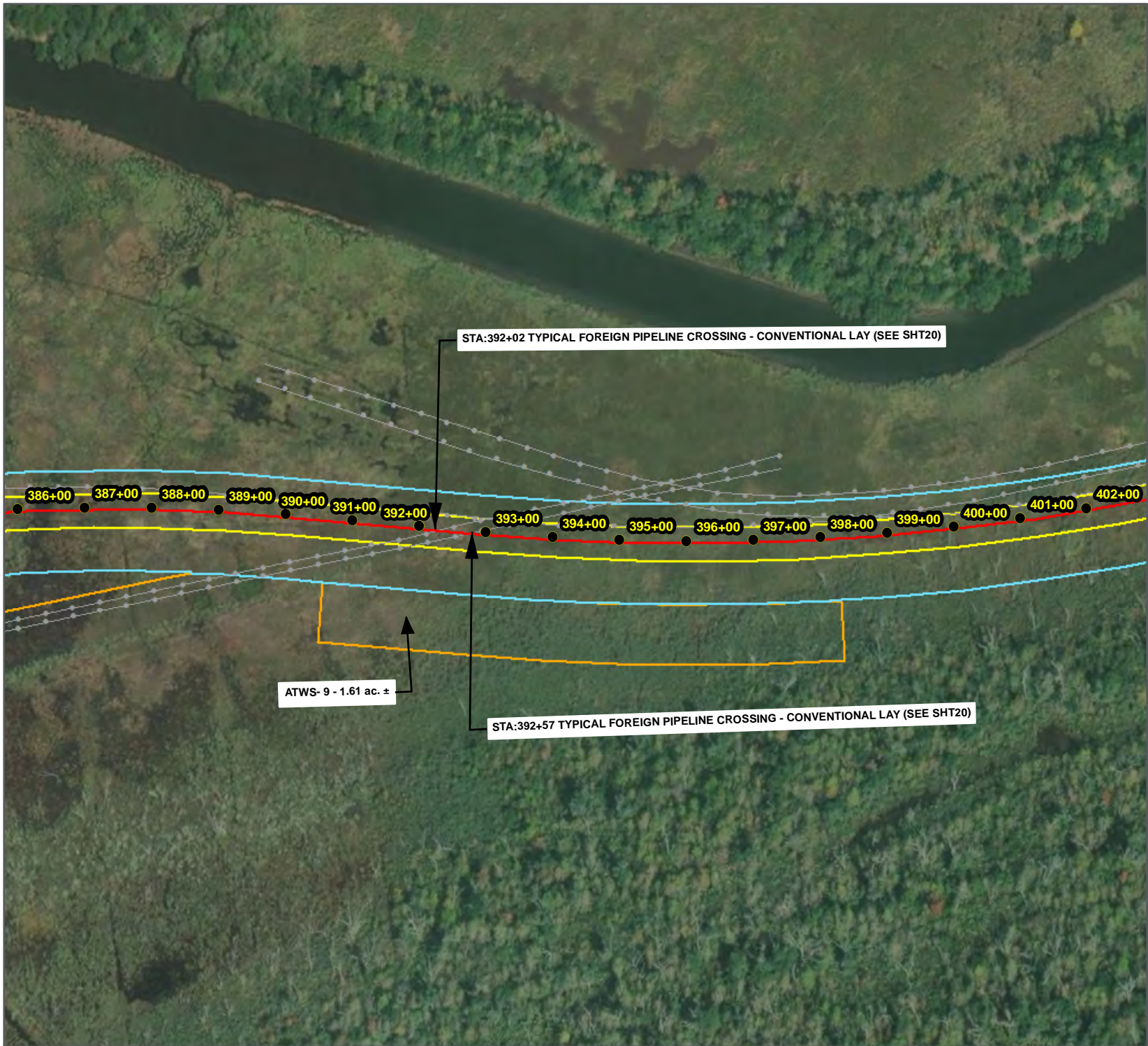
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



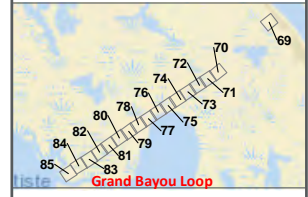
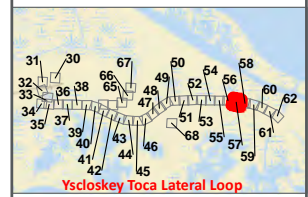
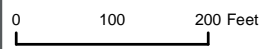




# Plan View Sheet 57

## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

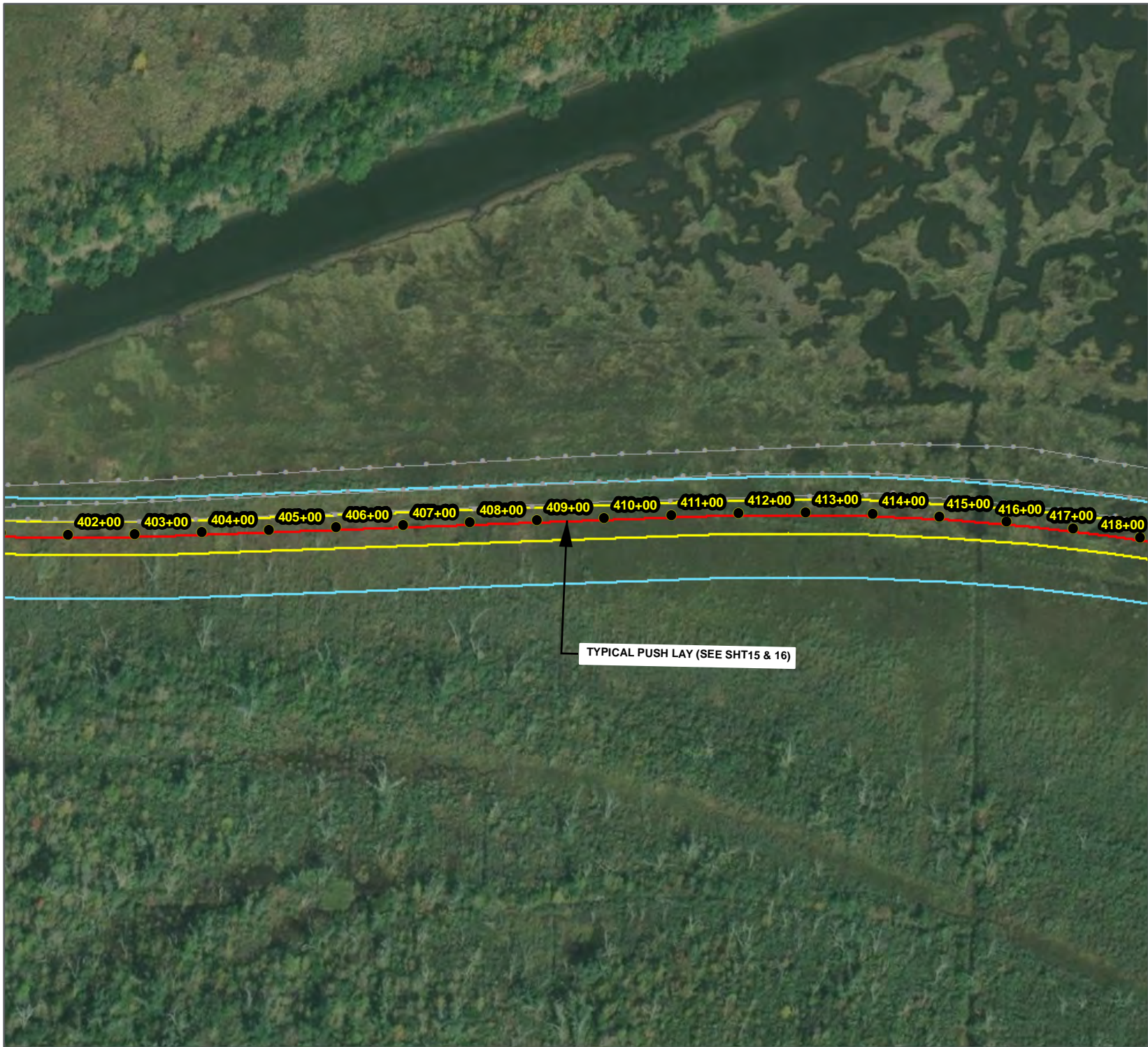
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



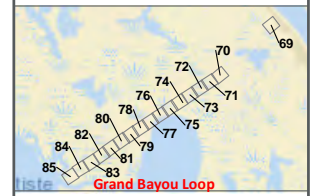
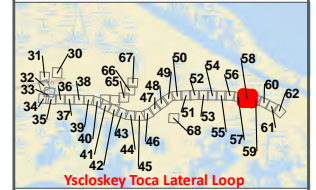




**Plan View**  
**Sheet 58**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

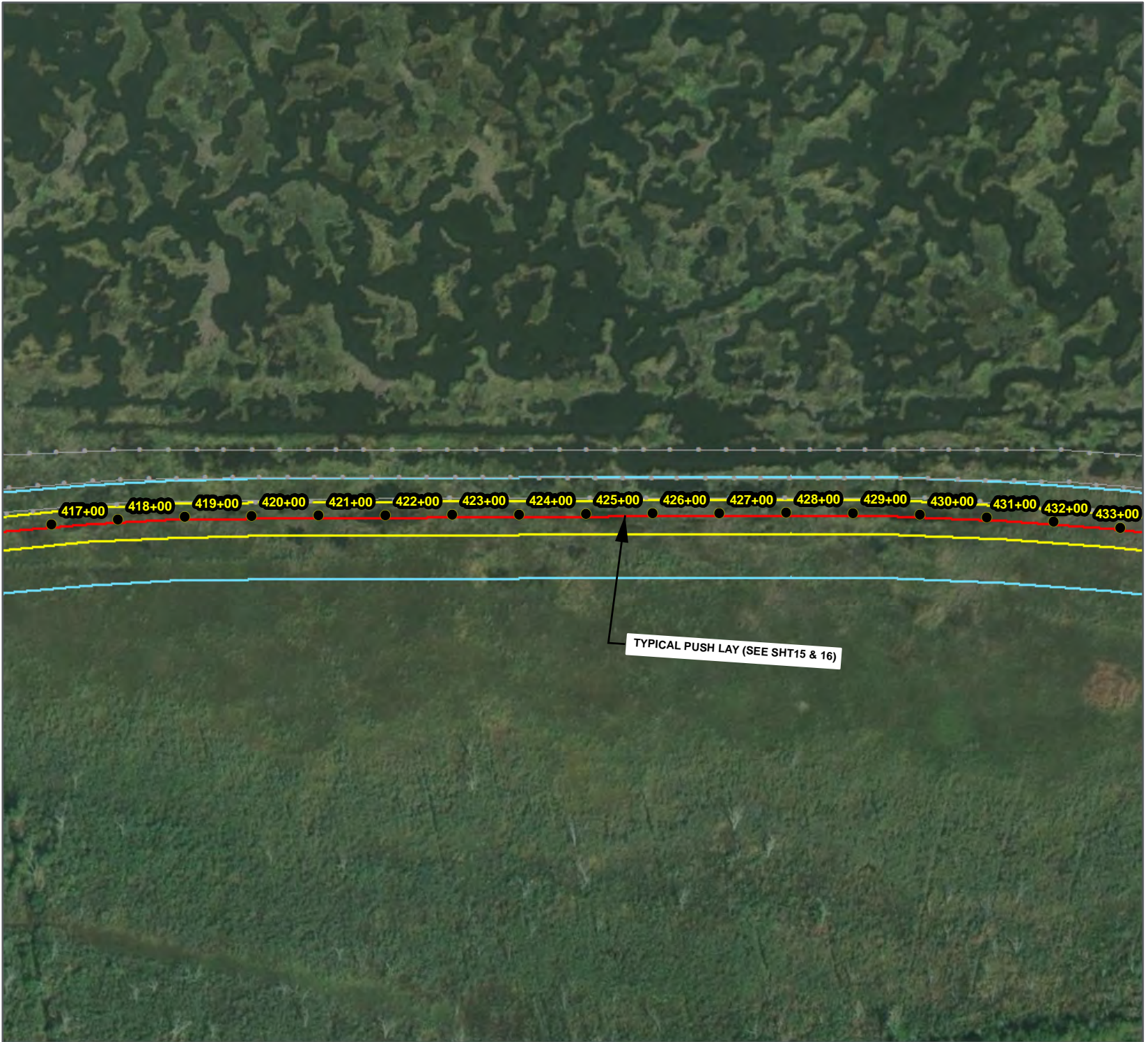
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

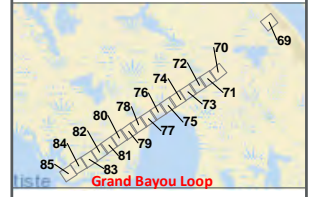
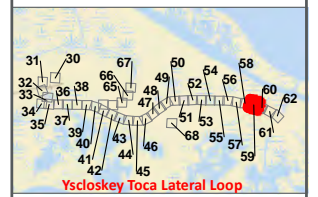
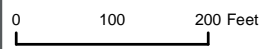






**Plan View  
Sheet 59**  
**Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

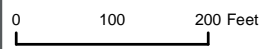




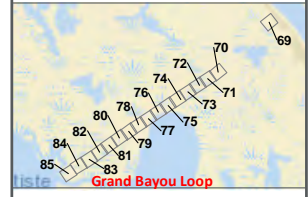
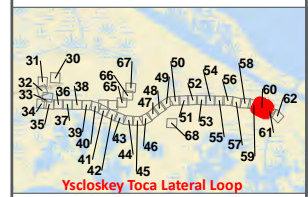


**Plan View  
Sheet 60**  
**Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



TYPICAL PUSH LAY (SEE SHT15 & 16)



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

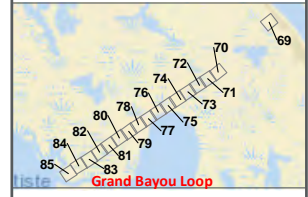
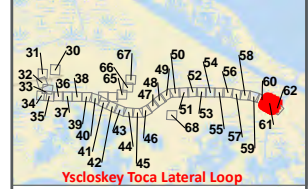
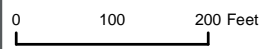






**Plan View**  
**Sheet 61**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

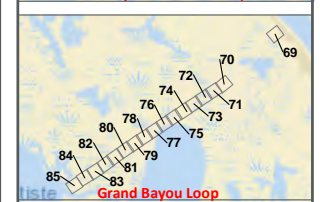
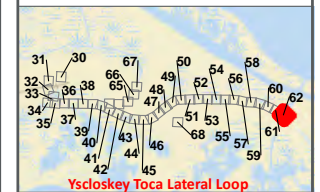




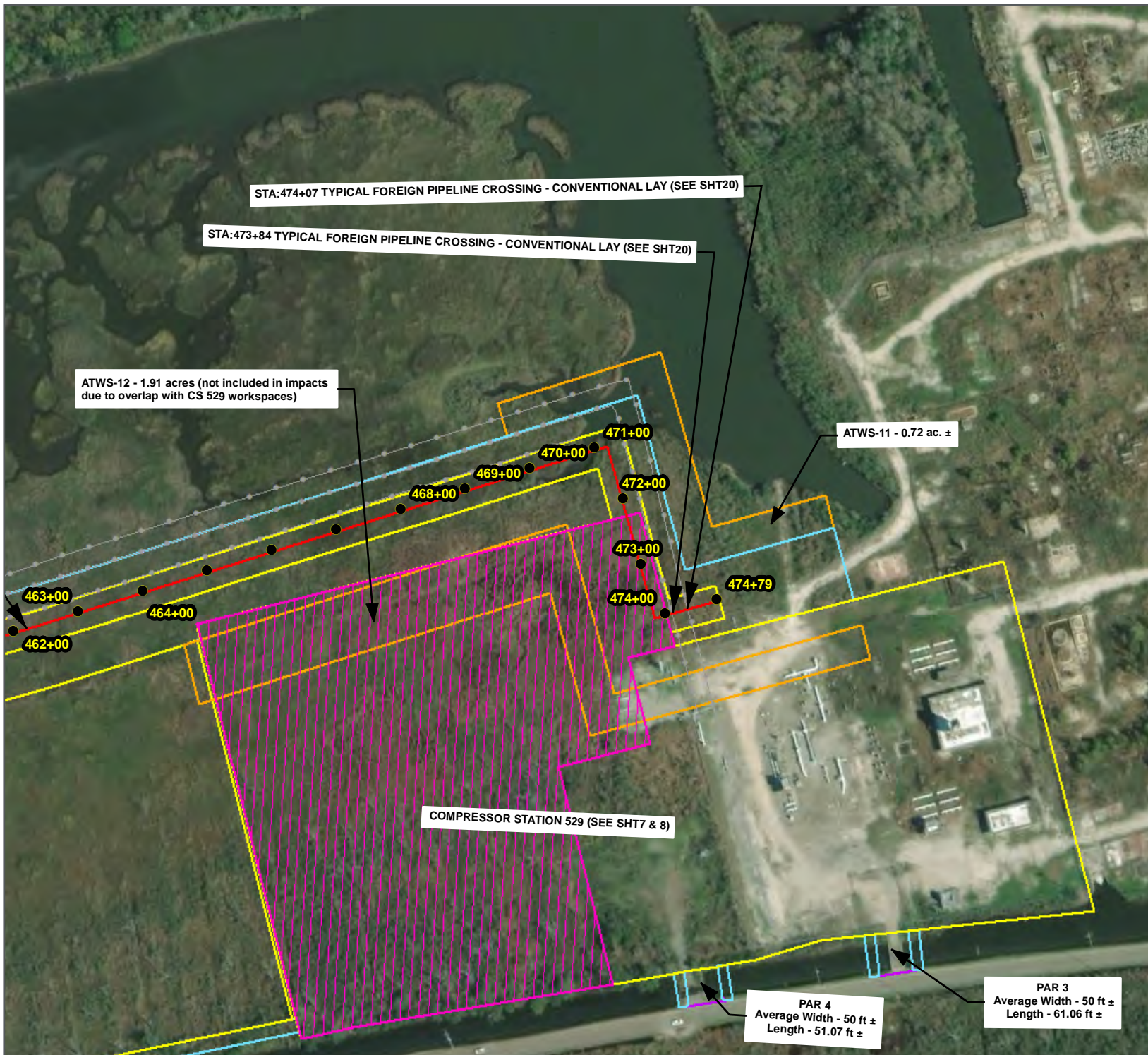
**Plan View**  
**Sheet 62**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



STA:474+07 TYPICAL FOREIGN PIPELINE CROSSING - CONVENTIONAL LAY (SEE SHT20)

STA:473+84 TYPICAL FOREIGN PIPELINE CROSSING - CONVENTIONAL LAY (SEE SHT20)

ATWS-12 - 1.91 acres (not included in impacts due to overlap with CS 529 workspaces)

ATWS-11 - 0.72 ac. ±

COMPRESSOR STATION 529 (SEE SHT7 & 8)

PAR 4  
 Average Width - 50 ft ±  
 Length - 51.07 ft ±

PAR 3  
 Average Width - 50 ft ±  
 Length - 61.06 ft ±





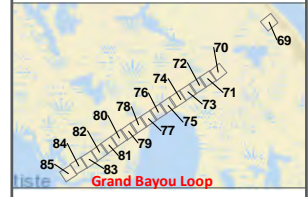
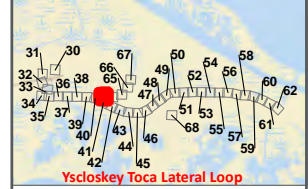
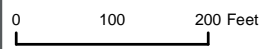
PAR 1  
Average Width - 20 ft ±  
Length - 17812.18 ft ±

PAR 2  
Average Width - 20 ft ±  
Length - 11184.33 ft ±

### Plan View Sheet 63

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |







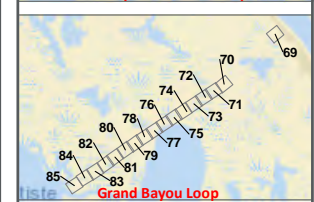
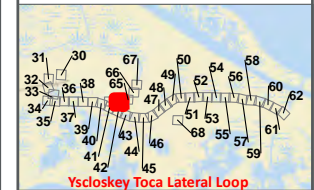
PAR 1  
Average Width - 20 ft ±  
Length - 17812.18 ft ±

## Plan View Sheet 64

### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |



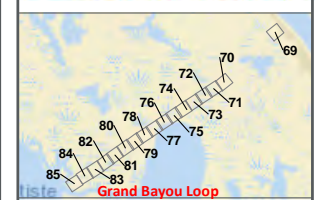
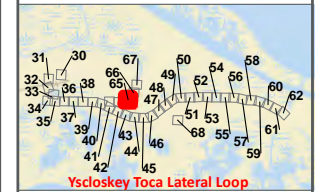




**Plan View**  
**Sheet 65**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Canal
- Access Roads
- Yards

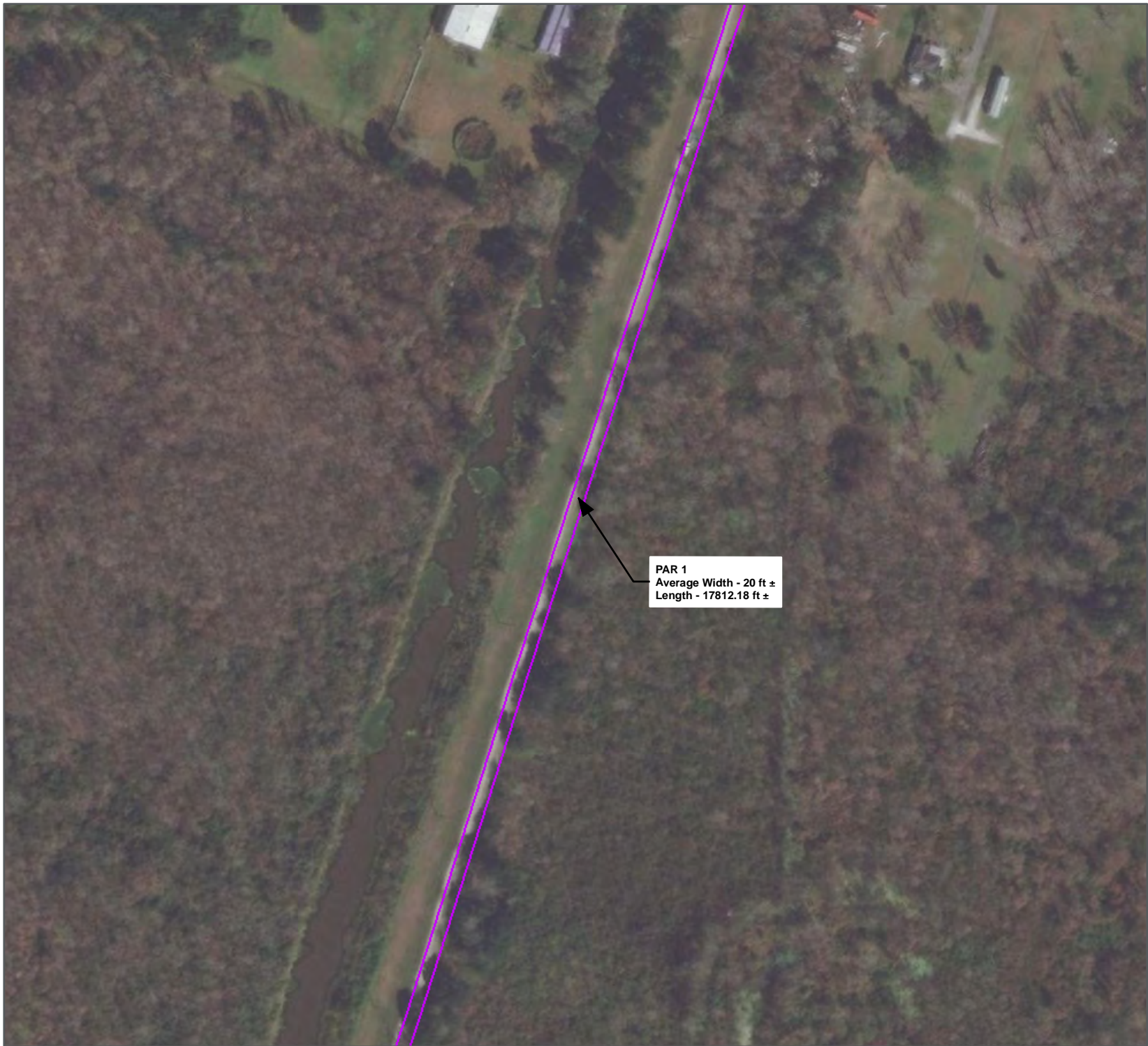
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |





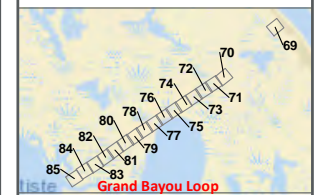
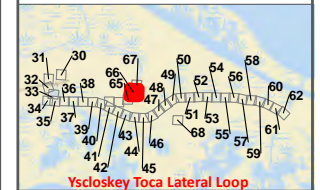


PAR 1  
Average Width - 20 ft ±  
Length - 17812.18 ft ±

### Plan View Sheet 66 Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

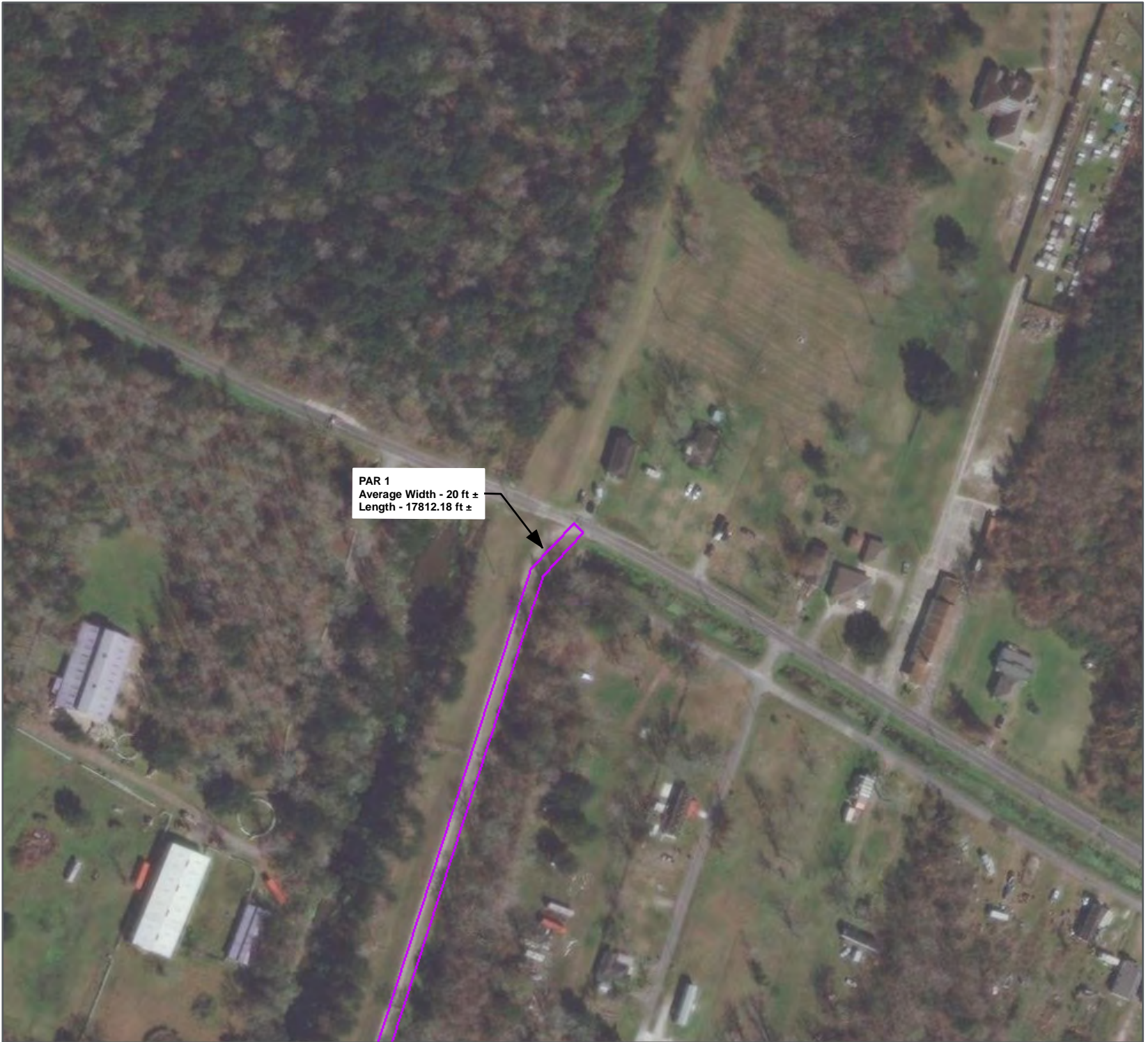
0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |





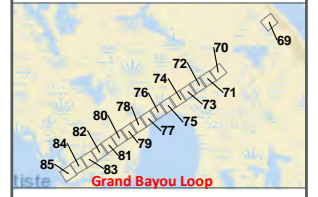
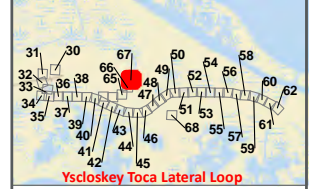
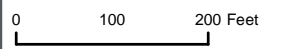


PAR 1  
Average Width - 20 ft ±  
Length - 17812.18 ft ±

## Plan View Sheet 67

### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |





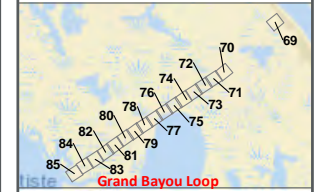
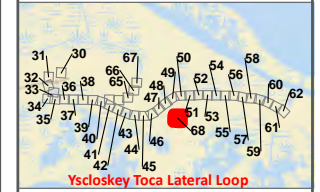


**State Road LA-46 Yard**  
**14.82 ac. ±**  
**29° 50' 46.176", -89° 45' 29.88"**

**Plan View**  
**Sheet 68**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |               |      |
|-------------------------------|---------------|------|
| MAX MEAN                      | 1.69'         | FEET |
| MIN MEAN                      | -0.073333333' | FEET |
| YEAR 2018-10-01 TO 2019-09-30 |               |      |
| 073745253 REGGIO CANAL        |               |      |

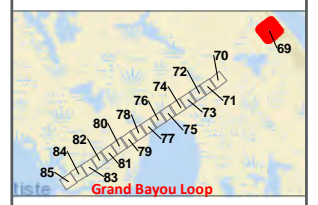
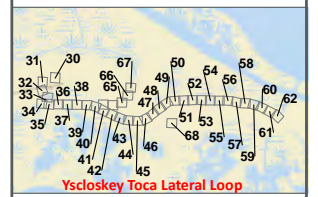
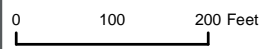






**Plan View  
Sheet 69**  
**Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- Permanent Fill
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Canal
- Access Roads
- Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |





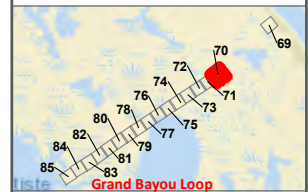
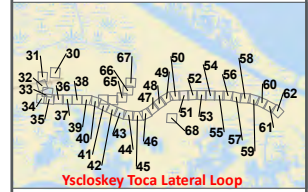


### Plan View Sheet 70

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

**Cardno**  
Tennessee Gas Pipeline  
Company, L.L.C.  
A World of Possibilities





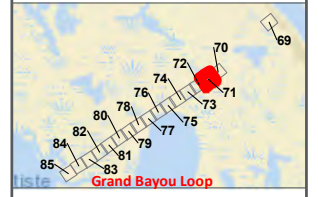
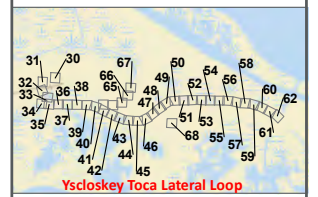
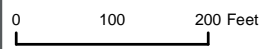
STA:17+21 TYPICAL FOREIGN PIPELINE CROSSING – BARGE/PUSH LAY (SEE SHT22)

STA:16+51 TYPICAL FOREIGN PIPELINE CROSSING – BARGE/PUSH LAY (SEE SHT22)

### Plan View Sheet 71

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

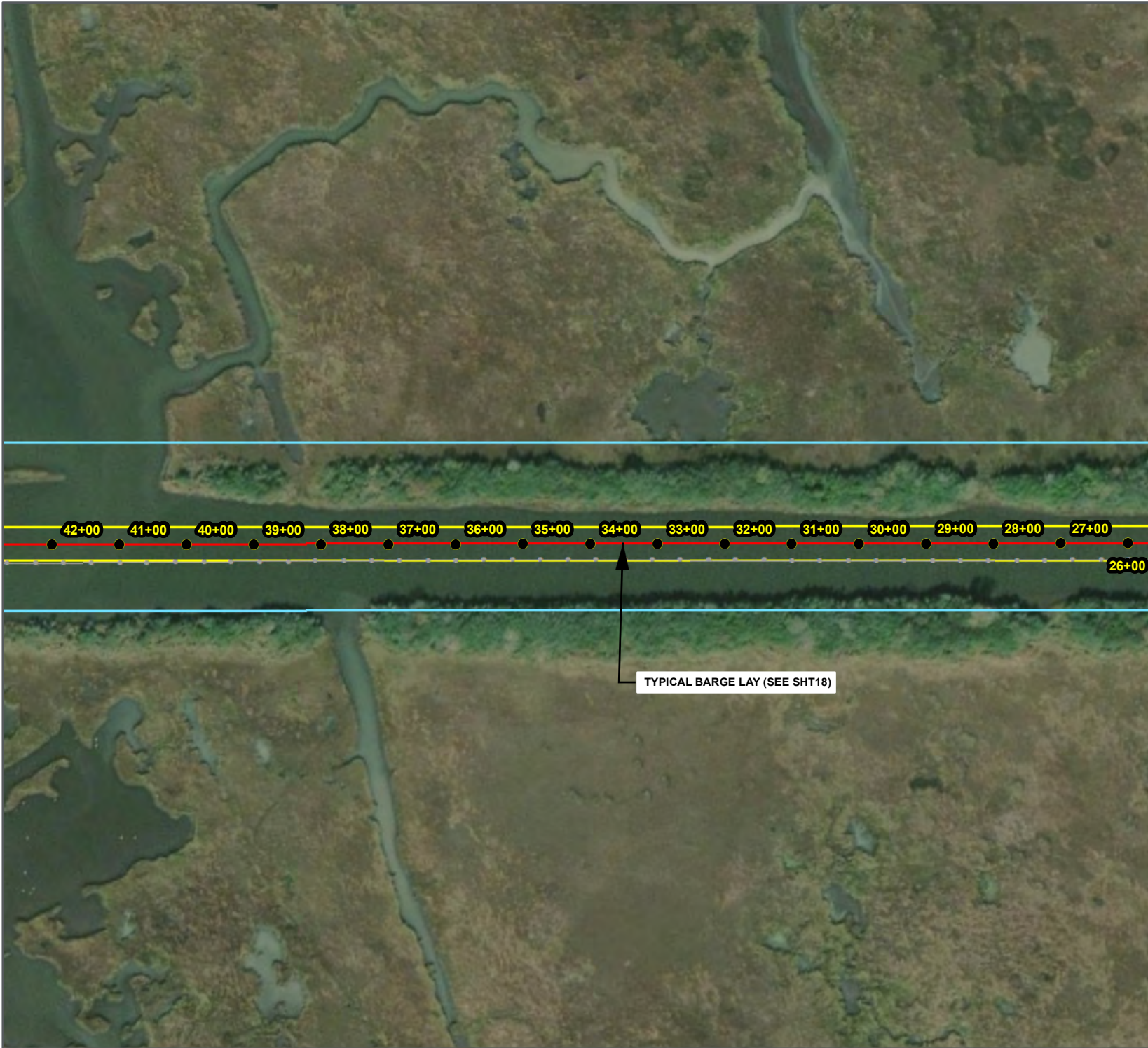
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

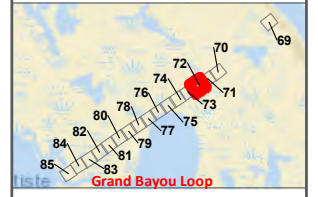
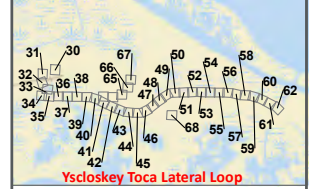
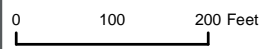






**Plan View  
Sheet 72  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |



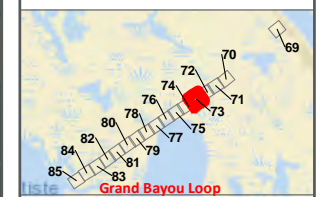
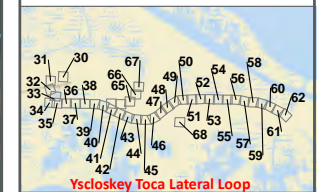




**Plan View  
Sheet 73  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

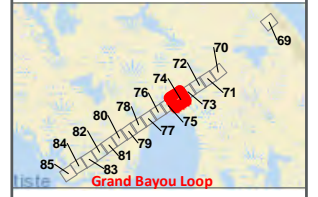
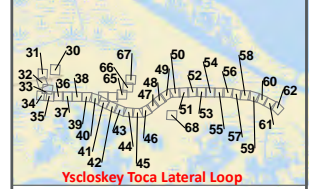
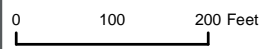






**Plan View  
Sheet 74  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |



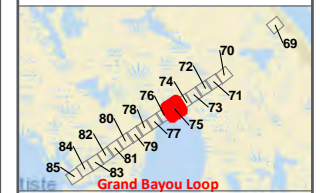
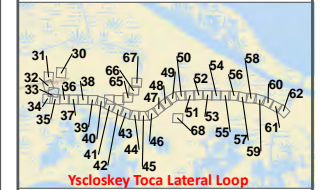




**Plan View**  
**Sheet 75**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

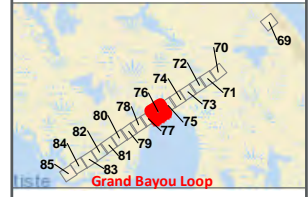
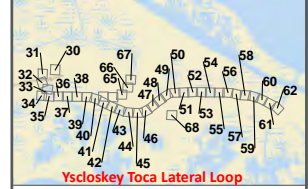
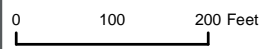






**Plan View**  
**Sheet 76**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |







### Plan View Sheet 77

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

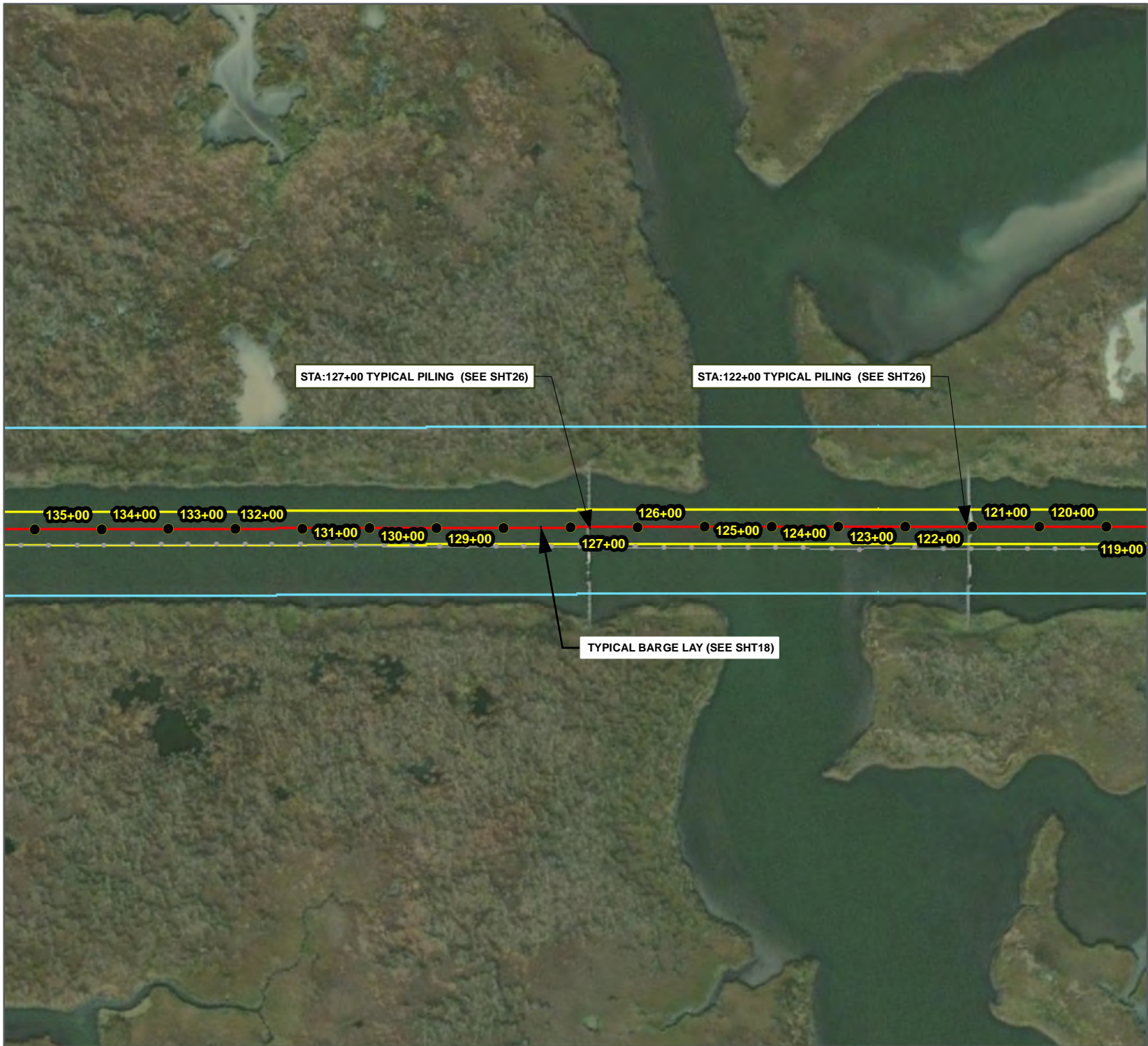
- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet

| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

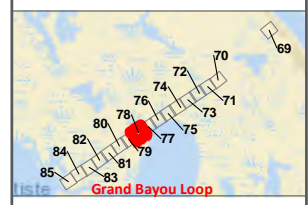
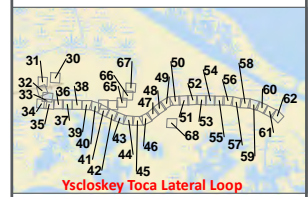
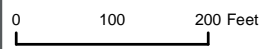
**Tennessee Gas Pipeline  
Company, L.L.C.**





**Plan View**  
**Sheet 78**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |







2)

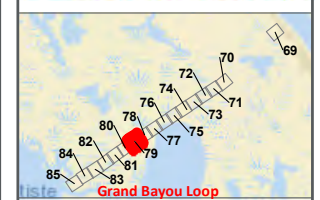
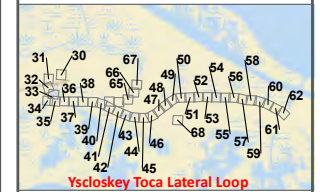
TYPICAL BARGE LAY (SEE SHT18)

## Plan View Sheet 79

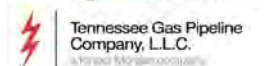
### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

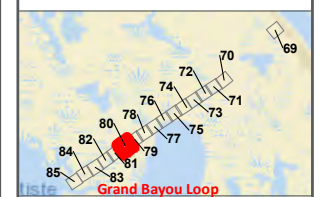
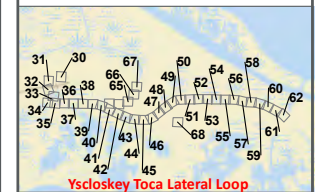
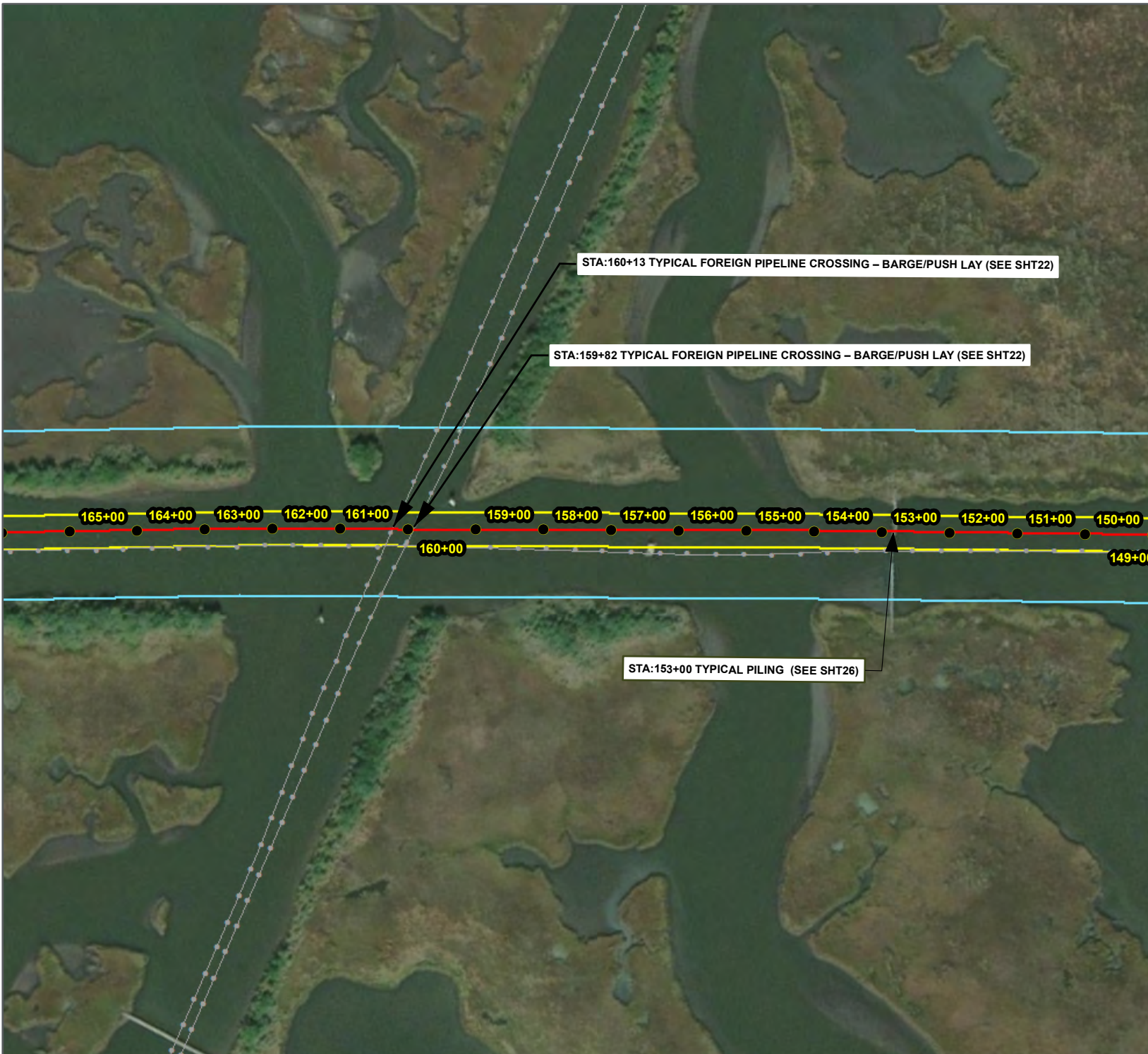




**Plan View  
Sheet 80  
Evangeline Pass  
Expansion Project  
Plaquemines &  
St. Bernard Parish,  
Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |







### Plan View Sheet 81

#### Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

0 100 200 Feet

| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

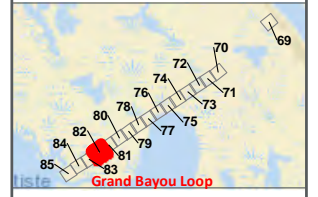
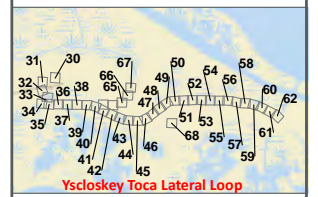
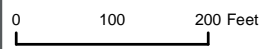
**Tennessee Gas Pipeline  
Company, L.L.C.**





**Plan View**  
**Sheet 82**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



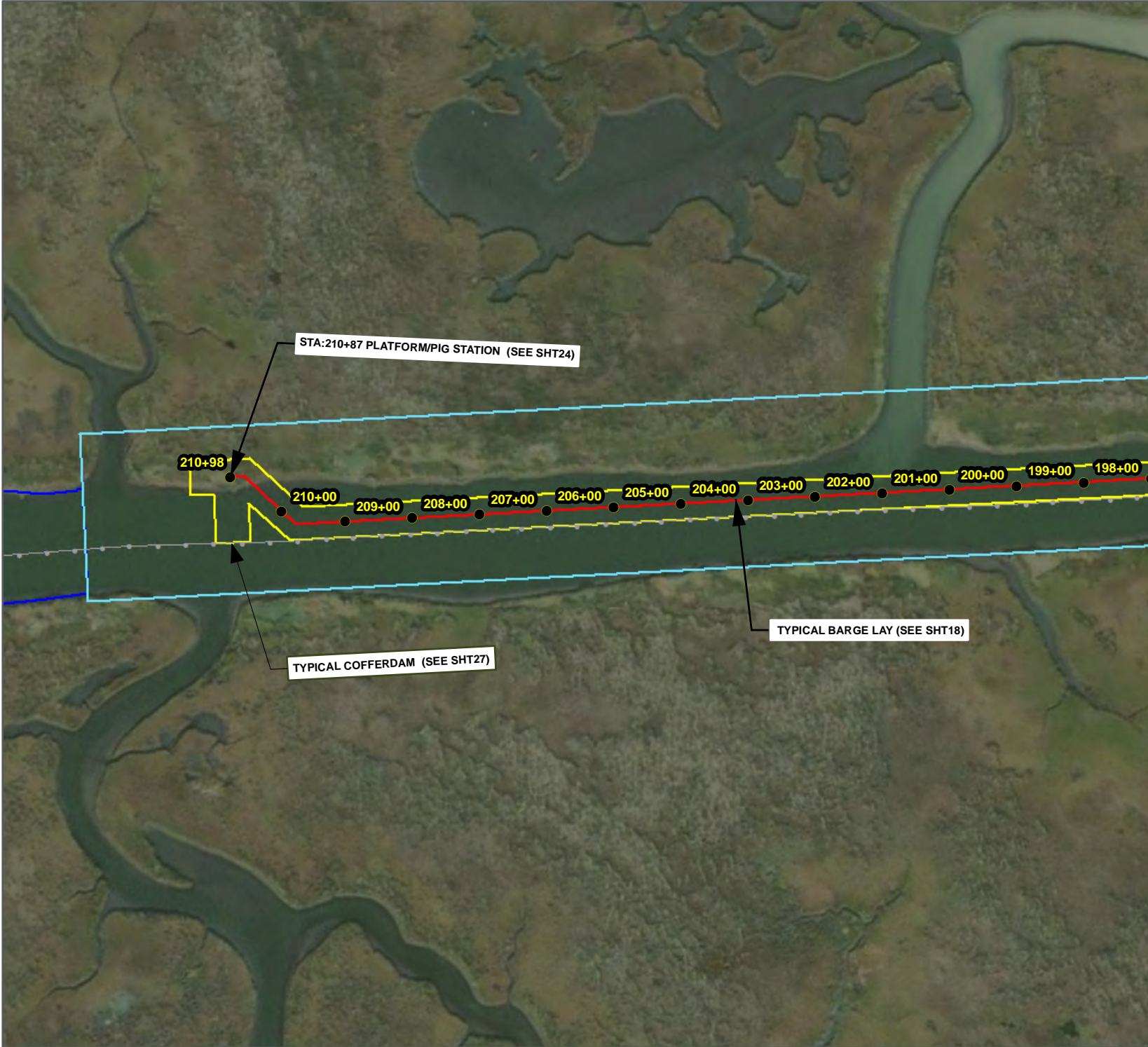
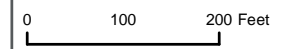
| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |





**Plan View**  
**Sheet 83**  
**Evangeline Pass**  
**Expansion Project**  
**Plaquemines &**  
**St. Bernard Parish,**  
**Louisiana**

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards

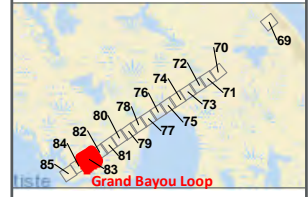
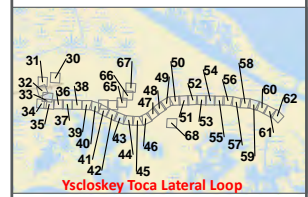


STA:210+87 PLATFORM/PIG STATION (SEE SHT24)

210+98

TYPICAL COFFERDAM (SEE SHT27)

TYPICAL BARGE LAY (SEE SHT18)



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |



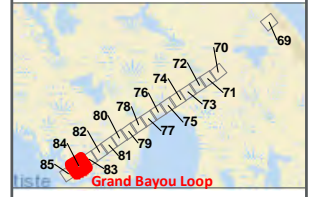
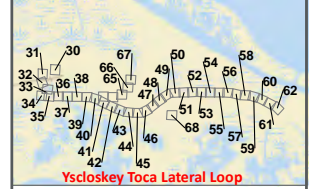
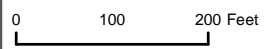




Access Canal  
Average Width - 145 ft ±  
Length - 3251.19 ft ±

### Plan View Sheet 84 Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Canal
- ▭ Access Roads
- ▭ Yards



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |







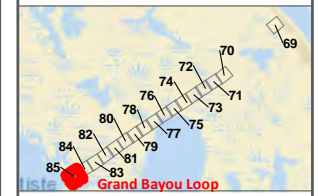
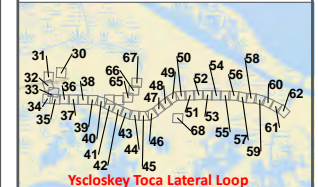
Access Canal  
 Average Width - 145 ft ±  
 Length - 3251.19 ft ±

# Plan View Sheet 85

## Evangeline Pass Expansion Project Plaquemines & St. Bernard Parish, Louisiana

- Station Numbers
- Centerline
- ▨ Permanent Fill
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Canal
- Access Roads
- Yards

0 100 200 Feet



| SURFACE WATER RECORD          |              |      |
|-------------------------------|--------------|------|
| MAX MEAN                      | 2.032727273' | FEET |
| MIN MEAN                      | 0.88'        | FEET |
| YEAR 2017-10-01 TO 2018-09-30 |              |      |
| 292952089453800 CRMS0282      |              |      |

