

**ROCK DIKE PROFILE AND SETTLEMENT PLATES SURVEY FOR  
WEST LAKE BOUDREAUX SHORELINE PROTECTION AND  
MARSH CREATION PROJECT (TE-0046)  
TERREBONNE PARISH, LOUISIANA**

**DATA COLLECTION REPORT**

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Prepared for:  
Coastal Protection & Restoration Authority  
Thibodaux Regional Office  
1440 Tiger Drive  
Thibodaux, LA 70301



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# ROCK DIKE PROFILE AND SETTLEMENT PLATES SURVEY FOR WEST LAKE BOUDREAUX SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)

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- Data Files: Topographic digital survey point data (csv format)
- Drawing Files: Project digital drawing files (AutoCAD, and PDF format)
- Field Notes Records: Field Notes (PDF format) and Digital Photographs (JPG format)
- LASARD Data files (zip format)
- SM Datasheet: Secondary Monument Datasheet (PDF format)
- Survey Report: Data Collection Report (PDF format)

# TOPOGRAPHIC AND BATHYMETRIC SURVEY DATA COLLECTION REPORT

## WEST LAKE BOUDREAUX SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)

### 1.0 PROJECT OVERVIEW

The Coastal Protection and Restoration Authority (CPRA) is responsible for monitoring, maintaining, and operating projects that restore, create, enhance, and maintain coastal wetlands in coastal Louisiana. CPRA periodically evaluates orthometric heights to determine project success and ecosystem sustainability. T. Baker Smith, LLC (TBS) was tasked to provide Rock Dike Profile and Settlement Plate Surveys for the West Lake Boudreaux Shoreline Protection and Marsh Creation Project (TE-0046). Data gathered from these surveys will enable the analysis and evaluation of elevation changes over time along the centerline profile of the existing foreshore rock dike shoreline segments and associated settlement plates installed during construction of the TE-0046 project. These existing rock dikes are separated into the Northern, Central, and Southern Segments located along the western shoreline of Lake Boudreaux, south of Bayou Butler, and east of Bayou Grand Caillou and LA State Hwy 57 (Grand Caillou Road) in Terrebonne Parish, LA. The approximate coordinates of the center of the project area are: 29° 25' 03.37" N and 90° 41' 05.04" W, NAD83 (2011). A project site map showing project location and data transects can be found in Appendix "A".

### 2.0 DATA COLLECTION SUMMARY AND SURVEY METHODOLOGY

#### 2.1 PROJECT CONTROL AND DATUM INFORMATION

This survey collected elevation points along the centerline of rock dike shoreline segments starting at the North Section, southerly along and through the Center Section, then continuing to the end of the rock dike of the Southern Section. The total length of these rock dike segments surveyed was 13,679 ft. in total length. There are ten (10) settlement plate locations associated with this project that were also surveyed. Elevations on the top of pipe and top of rocks at each settlement plate was gathered as part of this data collection effort. TBS survey crews began their surveys of the project by conducting Global Navigation Satellite System (GNSS) Real Time Kinematic (RTK) measurements utilizing horizontal and vertical positions as indicated on the benchmark datasheet supplied by CPRA for Secondary Monument "TE32-SM-04", shown in Appendix "B". This monument is part of the Louisiana Coastal Zone (LCZ) Secondary GPS Network and is located near the project site along La State Highway No. 57

(Grand Caillou Road). The data collected was processed into the State Plane Coordinate System, Louisiana South Zone -1702, NAD83(2011), US Survey Feet and with vertical datum of NAVD88 (Geoid12B). Geographic coordinates are provided as NAD83(2011) (2010.00) latitudes and longitudes and was also converted to UTM, NAD83 (Zone 15) meters for the project deliverables.

The horizontal coordinates on the “Beginning Station” used on this survey for each segment of rock dike centerline were correlated to the same “Beginning Station” coordinates on each segment provided in the reference construction plans approved by Mari Gilford entitled “As-Built Plans, TE-46 – West Lake Boudreaux Construction Unit No. 1 Terrebonne Parish, Louisiana”, prepared for NRCS, and dated July 27, 2012 as supplied by CPRA and attached in Appendix “D”. These starting coordinates as shown in the plans for each segment were found to coincide with the beginning of each existing rock dike segment found in this survey effort. These reference coordinates start each of the rock dike sections and are shown as the Northern Section centerline alignment beginning at Sta. 100+00, the Central Section begins at Sta. 300+00, and the Southern Section begins at Sta. 400+00. The stations for the existing centerline alignment run southerly along each section from north to south. Once the alignment reaches the next adjoining section, the beginning station resets to the reference beginning stations as previously stated.

The two prior data sets as shown on the “As-Built Plans” used for reference were dated 2008 and 2012 having vertical datums of NAVD88 (Geoid 99). All final vertical positions for the data collected with this survey effort as shown was adjusted vertically from NAVD88 (Geoid 12B) to NAVD88 (Geoid 99). Adjusting all data to a common vertical datum of NAVD88 (Geoid99) was necessary to analyze the data for any changes on top of the rock dike segments between the current survey and the two prior data sets from the “As-Built” surveys. The top of Rock Dike for the two reference data sets and the current survey are shown and labeled in red, blue, and green profile lines on the Project Drawings attached in Appendix “C”.

All data collection and processing was performed following applicable guidelines set forth in “*A Contractor’s Guide to the Standards of Practice for CPRA Contractors Performing GPS Surveys and Determining GPS Derived Orthometric Heights within the Louisiana Coastal Zone*”, July 2019 version.

## **2.2 ROCK DIKE PROFILE SURVEY**

TBS performed a topographic survey along the centerline of the existing Rock Dike as provided by CPRA and as shown in the project site map in Appendix “A”. These topographic surveys were performed in June 2023 utilizing GNSS with Real Time Kinematic (RTK) surveys. The project site was accessed via a 26’ dual outboard survey vessel. Survey points (elevations) taken along the existing centerline of rock dike alignments on the Northern Section, Central Section, and Southern Sections of the TE-0046 project. Position, elevation, and water depths were recorded every twenty-five (25) feet along the centerline of existing rock dike profile or where major elevation changes of greater than one half foot (0.5) occurs. A half foot (0.5) diameter metal plate was attached to the bottom of the survey rod to prevent the rod from sinking in soft areas or holes on the rocks. Elevations were also gathered along the existing water bottom and/or natural ground areas in a straight-line alignment between the toe of each rock dike segment. These areas are shown at the beginning and/or end of rock dike profiles in



the Project Drawings attached in Appendix “C”. In shallow water portions, water bottom data was collected by taking manual soundings using a rod with a 6” diameter bottom plate. All soundings were gathered utilizing an RTK GPS for horizontal positioning and observed top of water elevation for soundings at the time of survey. The topographic survey data was downloaded from the Trimble TSC-7 Data Collector into the Trimble Business Center software for processing. The program used to process the GPS network adjustment and all project data was Trimble Business Center (TBC), version 5.60. This software allows for additional QA/QC of GPS data, and was used to check for instrument setup errors, antenna height errors, and other blunders. Manual sounding data was processed and reduced to elevations, exported to digital (.csv) files, and then imported into AutoCAD for further processing. All final processed RTK Topographic data represent the current survey and was used to create the Top of Rock Dike profiles shown in the Project Drawings attached in Appendix “C”.

Digital photos were also acquired during the survey at ten (10) separate locations along the existing rock dike segments. Photos were acquired with a digital camera showing existing conditions along the existing rock dike segments at various locations. Rock dike photographs, their approximate Stations, and direction of view associated with each individual picture are as shown and described in the photos below:



Northern Section – Station 107+20  
(Looking Northerly)  
Lat: 29°25'44"N Long: 90°40'38"W



Northern Section – Station 107+20  
(Looking Southerly)  
Lat: 29°25'44"N Long: 90°40'38"W





Northern Section – Station 112+45  
(Looking Southerly)  
Lat: 29°25'39"N Long: 90°40'35"W



Northern Section – Station 113+70  
(Looking Northerly)  
Lat: 29°25'38"N Long: 90°40'36"W



Northern Section – Station 116+60  
(Looking Northerly)  
Lat: 29°25'34"N Long: 90°40'38"W

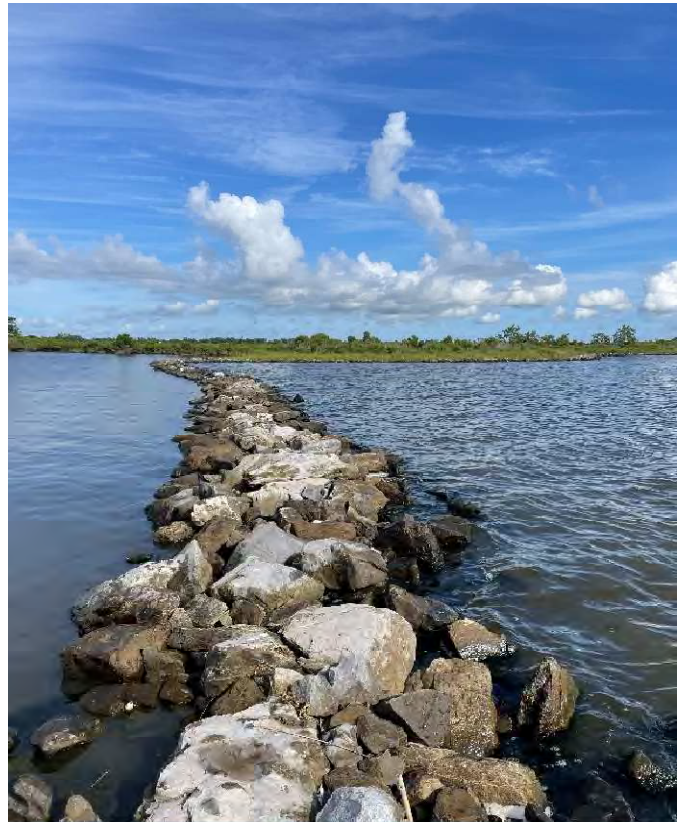


Central Section – Station 119+75  
(Looking Southerly)  
Lat: 29°24'56"N Long: 90°40'59"W





Central Section – Station 120+50  
(Looking Northerly)  
Lat: 29°24'55"N Long: 90°40'59"W



Central Section – Station 121+50  
(Looking Northerly)  
Lat: 29°24'54"N Long: 90°40'59"W



Southern Section – Station 452+00  
(Looking Northerly)  
Lat: 29°24'21"N Long: 90°40'55"W



Southern Section – Station 452+00  
(Looking Southerly)  
Lat: 29°24'21"N Long: 90°40'55"W

Located in the Southern Section of the Rock Dike Survey exists a 4” Boardwalk Pipeline (formerly Gulfsouth Pipeline) that crosses perpendicular to the centerline of the rock dike alignment at approx. Station 452+00. This pipeline was found to cross in an area that has no existing rocks within approx. 30’ north or south of the existing pipeline. The existing 4” Boardwalk Pipeline is the same pipeline shown on page 19 as the “Southern Section @ Pipeline Crossing” in the provided reference construction plans approved by Mari Gilford dated July 27, 2012 attached in Appendix “D”. The location of this pipeline acquired from this survey is shown in the Project Drawings attached in Appendix “C” and in the photo below:



Existing 4” Boardwalk Pipeline

Southern Section – Station 452+00  
 (Looking Westerly)  
 Lat: 29°24'21"N Long: 90°40'55"W

Water level elevations were collected each day at the project site for the duration of this survey. The average top of water during this survey effort was +1.7’ NAVD88 (Geoid99). A top of water average at the project site was also derived from obtaining water level data taken from the Continuous Recorder (H01) located at the CRMS092 site located near the project site. The available published hourly water level elevation data, ranging from July 2007 through February 2023, was downloaded, and adjusted to the project elevation datum of NAVD88 (Geoid 99) as shown in the Project Drawings attached in Appendix “C” and in the table below:

PROJECT MEAN WATER LEVELS	
CRMS0392-H01	
(JULY 2007 TO FEBRUARY 2023)	
GEOID99	= 1.4’
GEOID12B	= 0.6’



## 2.3 SETTLEMENT PLATES SURVEY

TBS surveyed the positions provided by CPRA of the existing eleven (11) settlement plates using RTK methods. The location of the settlement plates were as follows: five (5) plates in the Northern Section, two (2) plates in the Central Section, and four (4) plates in the Southern Section. At each location, TBS located the existing settlement plate and obtained top of vertical pipe and the rock dike elevation. The updated information for each settlement plates as surveyed are as shown in the tables below:

<b>SETTLEMENT PLATES - (NORTHERN SECTION)</b>							
PLATE NO	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET, NAVD88 (GEOID99)						
	STA	EASTING	NORTHING	LATITUDE	LONGITUDE	TOP OF ROCK ELEV	TOP PIPE ELEV.
SP-1	112+23	3,489,901.36	337,929.39	29° 25' 39.2818"	90° 40' 35.7702"	2.17'	4.53'
SP-2	116+51	3,489,666.76	337,618.82	29° 25' 36.2206"	90° 40' 38.4432"	2.22'	6.91'
SP-3	126+26	3,488,812.41	337,398.23	29° 25' 34.0852"	90° 40' 48.1185"	2.31'	3.57'
SP-4	148+23	3,487,208.01	335,996.80	29° 25' 20.3019"	90° 41' 06.3507"	2.61'	4.52'
SP-5	153+25	3,487,048.97	335,526.72	29° 25' 15.6573"	90° 41' 08.1791"	1.85'	5.59'

<b>SETTLEMENT PLATES - (CENTRAL SECTION)</b>							
PLATE NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET, NAVD88 (GEOID99)					
		EASTING	NORTHING	LATITUDE	LONGITUDE	TOP OF ROCK ELEV	TOP PIPE ELEV.
SP-6	307+26	3,487,204.28	334,592.74	29° 25' 06.4026"	90° 41' 06.4827"	2.14'	7.23'
SP-7	315+49	3,487,599.32	333,898.51	29° 24' 59.5079"	90° 41' 02.0604"	1.78'	7.05'

<b>SETTLEMENT PLATES - (SOUTHERN SECTION)</b>							
PLATE NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET, NAVD88 (GEOID99)					
		EASTING	NORTHING	LATITUDE	LONGITUDE	TOP OF ROCK ELEV	TOP PIPE ELEV.
SP-8	405+04	3,487,546.09	332,895.54	29°24'49.5820"	90°41'02.7265"	3.02'	6.97'
SP-9	417+30	3,487,440.57	331,941.93	29°24'40.1476"	90°41'03.9807"	2.57'	8.88'
SP-10	430+45	3,487,972.69	330,986.67	29°24'30.6611"	90°40'58.0257"	2.13'	8.61'
SP-11	443+97	3,488,578.15	330,667.25	29°24'27.4650"	90°40'51.2009"	3.59'	8.56'

**APPENDIX “A”**

**Project Site Map**



Overall Project Site Map  
West Lake Boudreaux Shoreline Protection and Marsh Creation Project (TE-0046)

**APPENDIX “B”**

**Secondary Monument Datasheet**





**VICINITY MAP** Scale: 1" = 2000'

2019 NAIP imagery provided by USDA Farm Service Agency

**Station Name: "TE32-SM-04"**

**Location:** The monument stamped "GOD" is located in Dulac, Louisiana. From the intersection of La. State Hwy. 57 (Grand Caillou Road) and East Tunnel Blvd. in Houma, Louisiana proceed south on Hwy. 57 for 11.00 miles to the monument on the left. The monument is located 31.2 ft. east from the centerline of Hwy. 57, 65.0 ft. south from a power pole, 109.2 ft. west from the southwest corner of a metal building, 43.0 ft. northwest of power pole #62, and 17.8 ft. north from the centerline of a shell driveway.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 60 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** GOD      **Installation Date:** 1995      **Date of Survey:** February 2022

**Monument Established By:** Morris P. Hebert, Inc.

**Reference Frame:** NAD83 (2011) epoch 2010.00

**Geodetic Position:**

Lat. = 29°26'49.1251" N  
 Long. = 90°42'08.3208" W  
 Ellipsoid Height = (-24.437 mtrs)

**SPCS, Louisiana South Zone (1702), US Survey Feet**

N= 344,938.40  
 E= 3,481,678.38

**UTM (zone 15N) Coordinates, Meters**

N= 3,259,706.287  
 E= 722,856.215

**NAVD88 (Geoid 12B) Adjusted Height:**

Elevation = 1.39 ft (0.423 mtrs.)  
 Geoid Height = (-24.860 mtrs.)  
 Elevation Geoid12A = 1.39 ft (0.423 mtrs.)  
 Geoid12A Height = (-24.860 mtrs.)  
 Elevation Geoid99 = 2.04 ft (0.622 mtrs.)  
 Geoid99 Height = (-25.059 mtrs.)



## APPENDIX “C”

### Rock Dike Profile and Settlement Plates Project Drawings for (TE-0046)



TERREBONNE PARISH, LOUISIANA

LOUISIANA COORDINATE SYSTEM (SOUTH ZONE)  
(1983 DATUM)

TE32-SM-04  
ELEV: 1.39' (GEOID12B)  
ELEV: 2.04' (GEOID99)  
X = 3,481,678.38" NAD 83 (2011)  
Y = 344,938.40" NAD 83 (2011)  
LAT = 29° 26' 49.1251" NAD 83 (2011)  
LONG = 90° 42' 08.3208" NAD 83 (2011)

LAKE BOUDREAUX SHORELINE PROTECTION  
AND MARSH CREATION PROJECT (TE-0046)



LEGEND	
	ROCK DIKE CENTERLINE
	BENCHMARK
	BEGIN / END ROCK DIKE SECTIONS

SHEET NO.	INDEX TO SHEETS DESCRIPTION
1	OVERALL PLAN VIEW
2	NORTHERN SECTION OVERVIEW
3-4	NORTHERN SECTION PROFILE
5	CENTRAL SECTION OVERVIEW
6	CENTRAL SECTION PROFILE
7	SOUTHERN SECTION OVERVIEW
8-9	SOUTHERN SECTION PROFILE

- SURVEY NOTES:**
- ROCK DIKE AND SETTLEMENT PLATE SURVEYS WERE PERFORMED JUNE 5, 2023 TO JUNE 7, 2023 BY T. BAKER SMITH, LLC.
  - ALL GRID COORDINATES ARE EXPRESSED IN SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), U.S. SURVEY FEET. VERTICAL DATUM IS NAVD88 (GEOID99), U.S. SURVEY FEET.
  - THE REFERENCE BENCHMARK FOR THIS SURVEY IS "TE32-SM-04"
  - BACKGROUND IMAGERY SOURCED FROM 2022 NAIP AERIAL PHOTOGRAPHY.



SCALE: 1" = 2000'

REV. NO: 00	REV. DATE: --/--	REV. BY: --
REVISION DESCRIPTION:		
-		

DRAWN BY: IMD	APPROVED BY: KAK
DATE: 06/29/2023	JOB NO: 2023.0864
DRAWING NAME: 2023.0864_T01.dwg	
PROJECTION: LA SOUTH ZONE GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET (GEOID 99)	
SHEET NO: 1	OF 9

**OVERALL PLAN VIEW**  
ROCK DIKE AND SETTLEMENT PLATE SURVEY  
WEST LAKE BOUDREAUX SHORELINE PROTECTION  
AND MARSH CREATION PROJECT (TE-0046)  
COASTAL PROTECTION AND RESTORATION AUTHORITY  
OF LOUISIANA  
TERREBONNE PARISH, LOUISIANA

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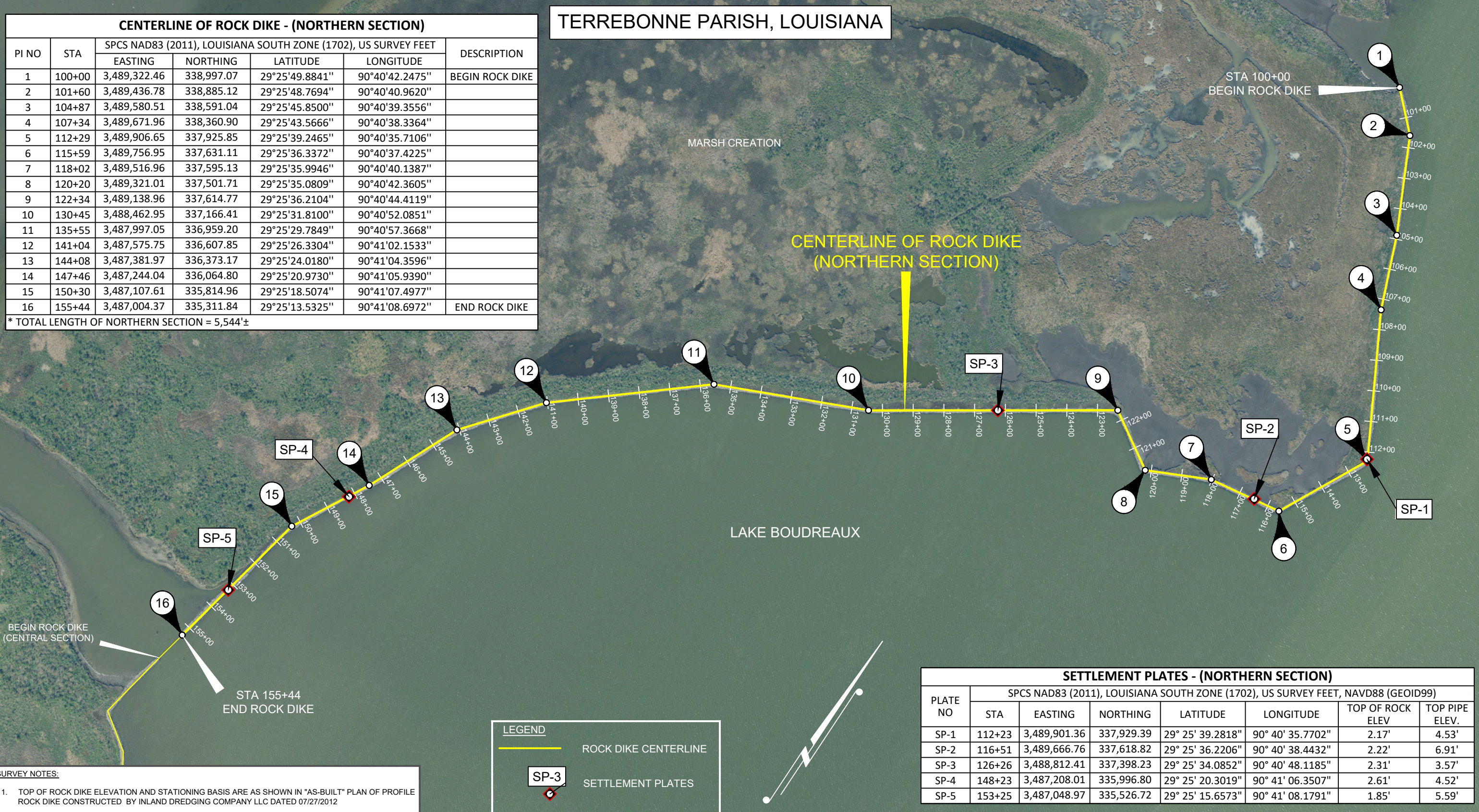


# TERREBONNE PARISH, LOUISIANA

## CENTERLINE OF ROCK DIKE - (NORTHERN SECTION)

PI NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET				DESCRIPTION
		EASTING	NORTHING	LATITUDE	LONGITUDE	
1	100+00	3,489,322.46	338,997.07	29°25'49.8841"	90°40'42.2475"	BEGIN ROCK DIKE
2	101+60	3,489,436.78	338,885.12	29°25'48.7694"	90°40'40.9620"	
3	104+87	3,489,580.51	338,591.04	29°25'45.8500"	90°40'39.3556"	
4	107+34	3,489,671.96	338,360.90	29°25'43.5666"	90°40'38.3364"	
5	112+29	3,489,906.65	337,925.85	29°25'39.2465"	90°40'35.7106"	
6	115+59	3,489,756.95	337,631.11	29°25'36.3372"	90°40'37.4225"	
7	118+02	3,489,516.96	337,595.13	29°25'35.9946"	90°40'40.1387"	
8	120+20	3,489,321.01	337,501.71	29°25'35.0809"	90°40'42.3605"	
9	122+34	3,489,138.96	337,614.77	29°25'36.2104"	90°40'44.4119"	
10	130+45	3,488,462.95	337,166.41	29°25'31.8100"	90°40'52.0851"	
11	135+55	3,487,997.05	336,959.20	29°25'29.7849"	90°40'57.3668"	
12	141+04	3,487,575.75	336,607.85	29°25'26.3304"	90°41'02.1533"	
13	144+08	3,487,381.97	336,373.17	29°25'24.0180"	90°41'04.3596"	
14	147+46	3,487,244.04	336,064.80	29°25'20.9730"	90°41'05.9390"	
15	150+30	3,487,107.61	335,814.96	29°25'18.5074"	90°41'07.4977"	
16	155+44	3,487,004.37	335,311.84	29°25'13.5325"	90°41'08.6972"	END ROCK DIKE

\* TOTAL LENGTH OF NORTHERN SECTION = 5,544'±



### SETTLEMENT PLATES - (NORTHERN SECTION)

PLATE NO	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET, NAVD88 (GEOID99)						
	STA	EASTING	NORTHING	LATITUDE	LONGITUDE	TOP OF ROCK ELEV.	TOP PIPE ELEV.
SP-1	112+23	3,489,901.36	337,929.39	29° 25' 39.2818"	90° 40' 35.7702"	2.17'	4.53'
SP-2	116+51	3,489,666.76	337,618.82	29° 25' 36.2206"	90° 40' 38.4432"	2.22'	6.91'
SP-3	126+26	3,488,812.41	337,398.23	29° 25' 34.0852"	90° 40' 48.1185"	2.31'	3.57'
SP-4	148+23	3,487,208.01	335,996.80	29° 25' 20.3019"	90° 41' 06.3507"	2.61'	4.52'
SP-5	153+25	3,487,048.97	335,526.72	29° 25' 15.6573"	90° 41' 08.1791"	1.85'	5.59'

**LEGEND**

— ROCK DIKE CENTERLINE

SP-3 SETTLEMENT PLATES

**SURVEY NOTES:**

1. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012

NOTES:

**T. BAKER SMITH**  
A CENTURY OF SOLUTIONS  
412 South Van Ave, Houma, LA 70363  
(985)868-1050 - tbsmith.com

SCALE: 1" = 300'

REV. NO: 00    REV. DATE: --/--    REV. BY: --

REVISION DESCRIPTION: --

DRAWN BY: IMD    APPROVED BY: KAK

DATE: 06/29/2023    JOB NO: 2023.0864

DRAWING NAME: 2023.0864\_T01.dwg

PROJECTION: LA SOUTH ZONE  
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
GRID UNITS: US SURVEY FEET (GEOID99)

SHEET NO: 2 OF 9

### NORTHERN SECTION OVERVIEW

**ROCK DIKE AND SETTLEMENT PLATE SURVEY**  
WEST LAKE BOUDREAU SHORELINE PROTECTION  
AND MARSH CREATION PROJECT (TE-0046)  
COASTAL PROTECTION AND RESTORATION AUTHORITY  
OF LOUISIANA  
TERREBONNE PARISH, LOUISIANA

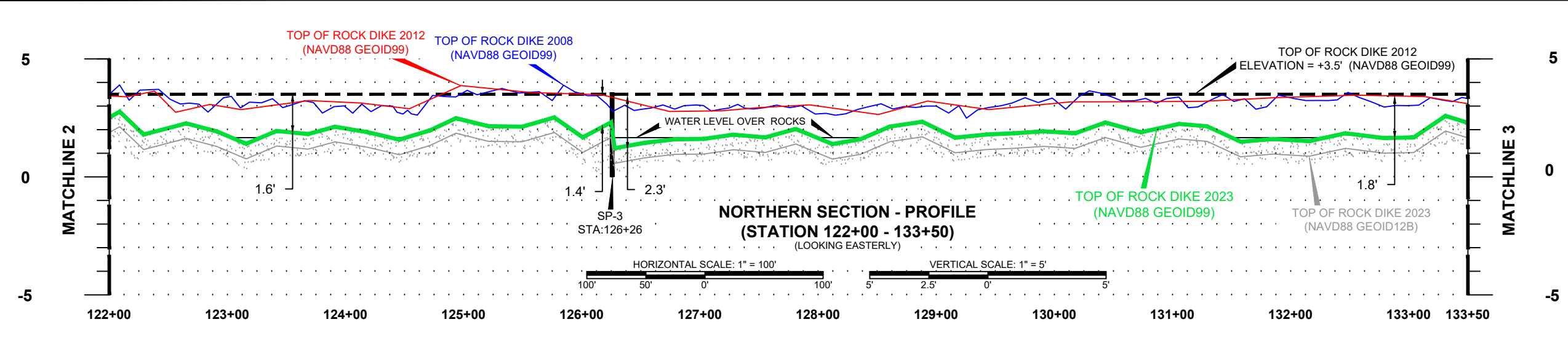
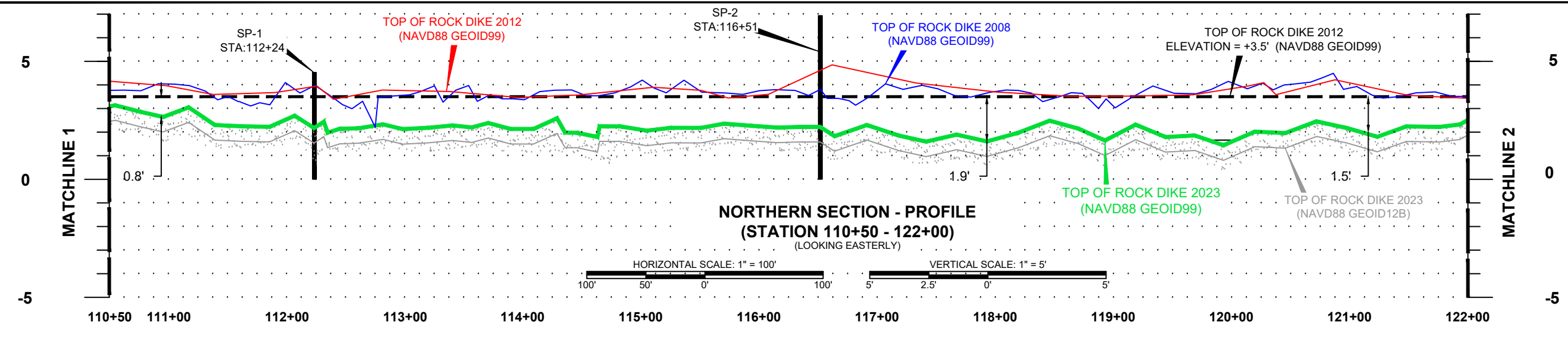
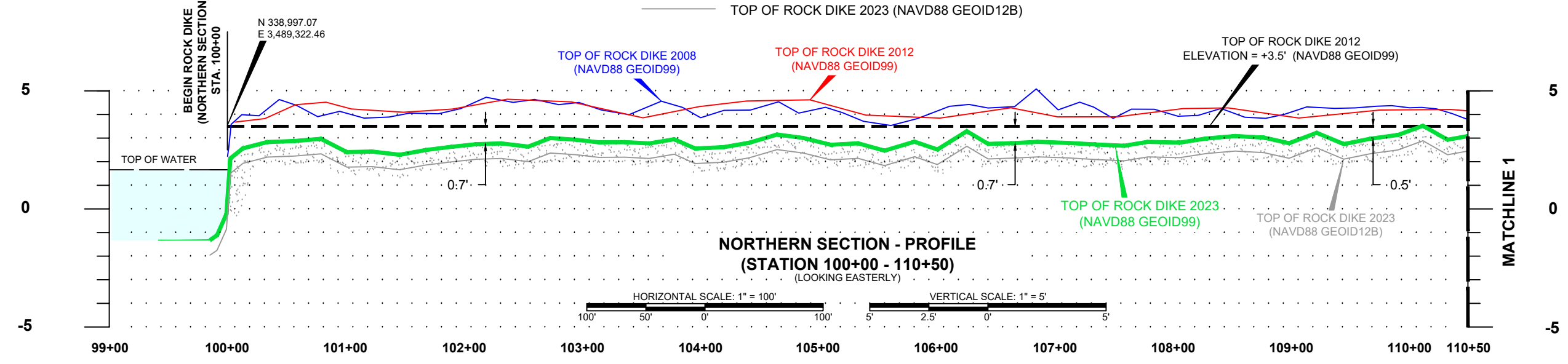
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**PROJECT MEAN WATER LEVELS**  
 CRMS0392-H01  
 (JULY 2007 TO FEBRUARY 2023)  
 GEOID99 = 1.4'  
 GEOID12B = 0.6'

- LEGEND**
- TOP OF ROCK DIKE 2008 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2012 (NAVD88 GEOID99)
  - - - TOP OF DIKE ELEVATION (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID12B)

- NOTES**
1. AVERAGE TOP OF WATER AT TIME OF SURVEY = +1.7' NAVD88 (GEOID99).
  2. TO CONVERT VERTICAL DATUM FROM GEOID99 TO GEOID12B = (-0.6')
  3. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012
  4. THE 2008 AND 2012 "AS-BUILT" DATA FOR TOP OF ROCK DIKE WAS PROVIDED BY CLIENT FOR REFERENCE AND IS SHOWN IN VERTICAL DATUM OF NAVD88 (GEOID99).

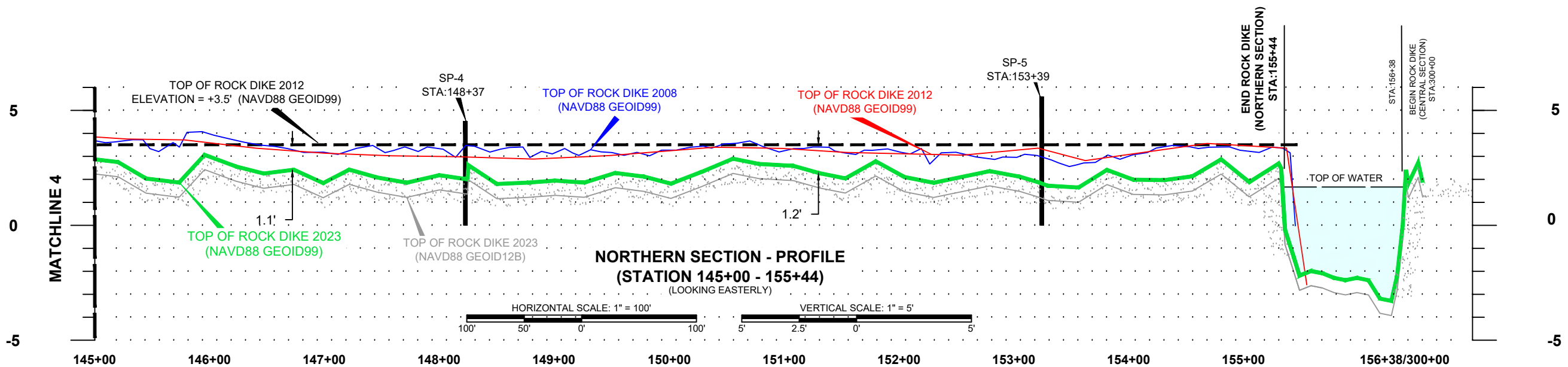
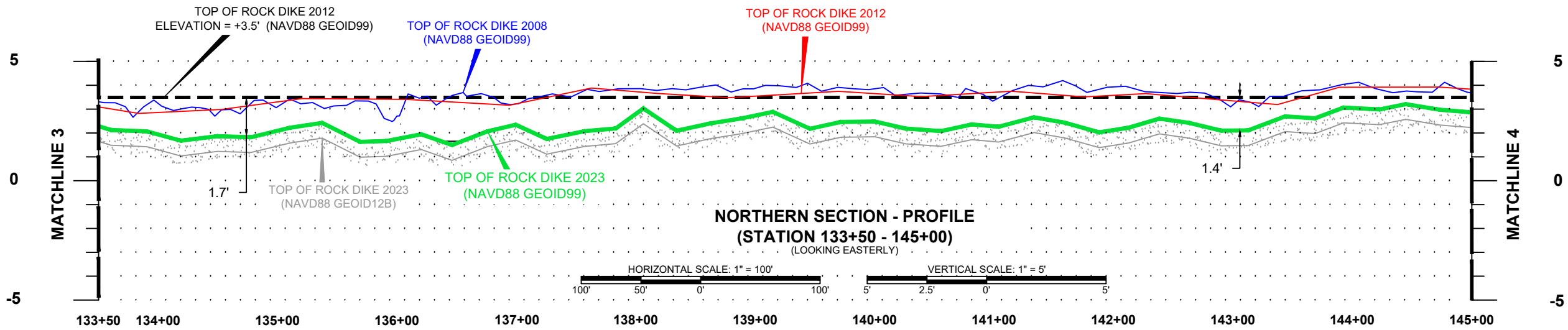


TE-0046 Rock Dike PROFILE SURVEY	DATE: 06/29/2023 SHEET 3 OF 9
WEST LAKE BOUDREAU SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)	STATE PROJECT NUMBER: TE-0046 FEDERAL PROJECT NUMBER: APPROVED BY: KAK
<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL ST., SUITE 1501 BATON ROUGE, LOUISIANA 70801	
	
	

**PROJECT MEAN WATER LEVELS**  
 CRMS0392-H01  
 (JULY 2007 TO FEBRUARY 2023)  
 GEOID99 = 1.4'  
 GEOID12B = 0.6'

- LEGEND**
- TOP OF ROCK DIKE 2008 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2012 (NAVD88 GEOID99)
  - - - TOP OF DIKE ELEVATION (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID12B)

- NOTES**
1. AVERAGE TOP OF WATER AT TIME OF SURVEY = +1.7' NAVD88 (GEOID99).
  2. TO CONVERT VERTICAL DATUM FROM GEOID99 TO GEOID12B = (-0.6')
  3. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012
  4. THE 2008 AND 2012 "AS-BUILT" DATA FOR TOP OF ROCK DIKE WAS PROVIDED BY CLIENT FOR REFERENCE AND IS SHOWN IN VERTICAL DATUM OF NAVD88 (GEOID99).



TE-0046 Rock Dike  
 PROFILE SURVEY  
 DATE: 06/29/2023  
 SHEET 4 OF 9

WEST LAKE BOUDREAU SHORELINE  
 PROTECTION AND MARSH CREATION  
 PROJECT (TE-0046)  
 STATE PROJECT NUMBER: TE-0046  
 FEDERAL PROJECT NUMBER:  
 APPROVED BY: KAK

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL ST., SUITE 1501  
 BATON ROUGE, LOUISIANA 70801  
 DESIGNED BY:  
 DRAWN BY: IMD



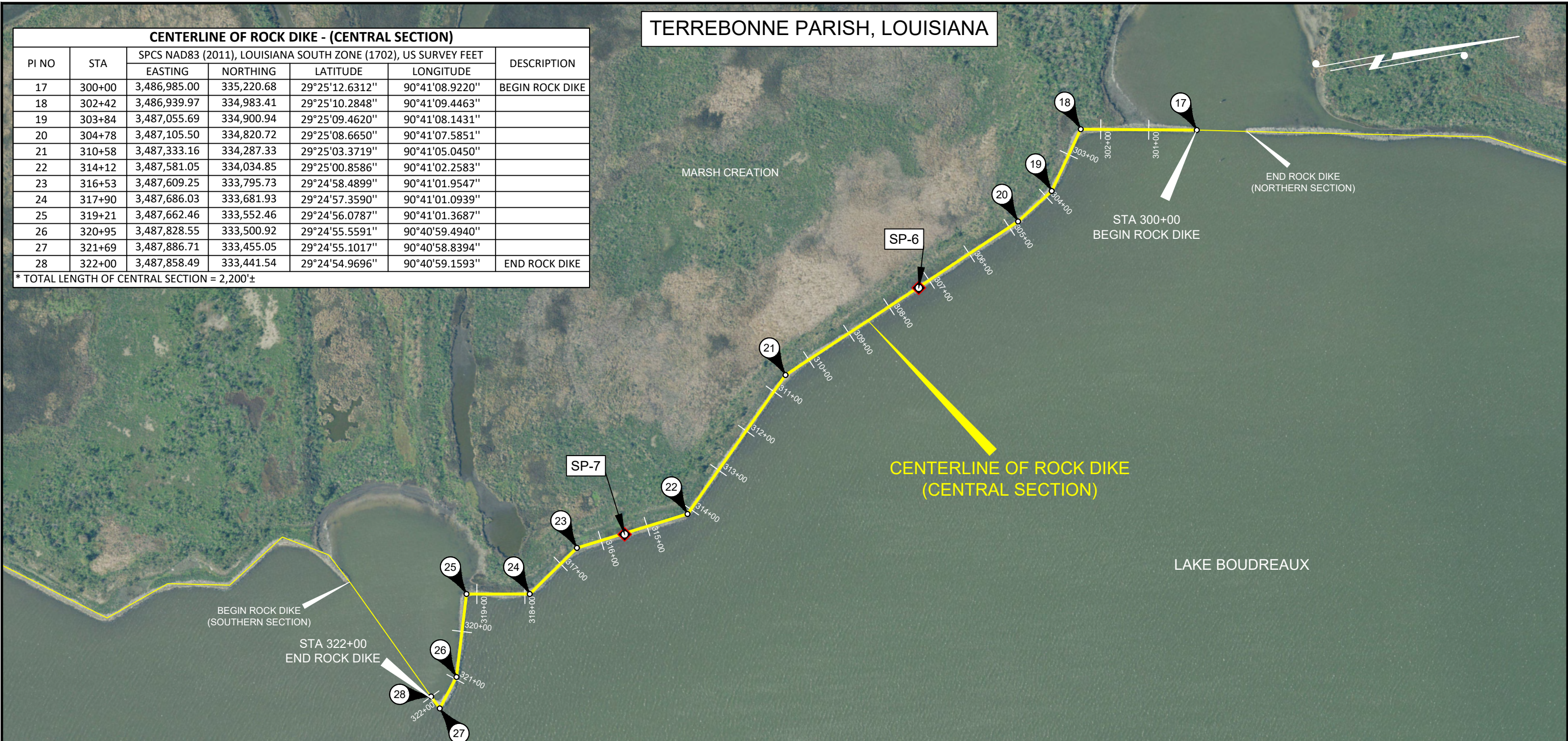
**T. BAKER SMITH**  
 CIVIL ENGINEER  
 418 South Main Ave., Metairie, LA 70002  
 (504) 885-1111  
**TBS**



TERREBONNE PARISH, LOUISIANA

CENTERLINE OF ROCK DIKE - (CENTRAL SECTION)						
PI NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET				DESCRIPTION
		EASTING	NORTHING	LATITUDE	LONGITUDE	
17	300+00	3,486,985.00	335,220.68	29°25'12.6312"	90°41'08.9220"	BEGIN ROCK DIKE
18	302+42	3,486,939.97	334,983.41	29°25'10.2848"	90°41'09.4463"	
19	303+84	3,487,055.69	334,900.94	29°25'09.4620"	90°41'08.1431"	
20	304+78	3,487,105.50	334,820.72	29°25'08.6650"	90°41'07.5851"	
21	310+58	3,487,333.16	334,287.33	29°25'03.3719"	90°41'05.0450"	
22	314+12	3,487,581.05	334,034.85	29°25'00.8586"	90°41'02.2583"	
23	316+53	3,487,609.25	333,795.73	29°24'58.4899"	90°41'01.9547"	
24	317+90	3,487,686.03	333,681.93	29°24'57.3590"	90°41'01.0939"	
25	319+21	3,487,662.46	333,552.46	29°24'56.0787"	90°41'01.3687"	
26	320+95	3,487,828.55	333,500.92	29°24'55.5591"	90°40'59.4940"	
27	321+69	3,487,886.71	333,455.05	29°24'55.1017"	90°40'58.8394"	
28	322+00	3,487,858.49	333,441.54	29°24'54.9696"	90°40'59.1593"	END ROCK DIKE

\* TOTAL LENGTH OF CENTRAL SECTION = 2,200'±



CENTERLINE OF ROCK DIKE (CENTRAL SECTION)

**SURVEY NOTES:**  
 1. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012

LEGEND	
	ROCK DIKE CENTERLINE
	SETTLEMENT PLATES

SETTLEMENT PLATES - (CENTRAL SECTION)							
PLATE NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET, NAVD88 (GEOID99)					
		EASTING	NORTHING	LATITUDE	LONGITUDE	TOP OF ROCK ELEV.	TOP PIPE ELEV.
SP-6	307+26	3,487,204.28	334,592.74	29° 25' 06.4026"	90° 41' 06.4827"	2.14'	7.23'
SP-7	315+49	3,487,599.32	333,898.51	29° 24' 59.5079"	90° 41' 02.0604"	1.78'	7.05'

NOTES:

**T. BAKER SMITH**  
 A CENTURY OF SOLUTIONS  
 412 South Van Ave, Houma, LA 70363  
 (985)868-1050 - tbsmith.com

SCALE: 1" = 200'

REV. NO: 00	REV. DATE: --/--	REV. BY: ---
REVISION DESCRIPTION:		
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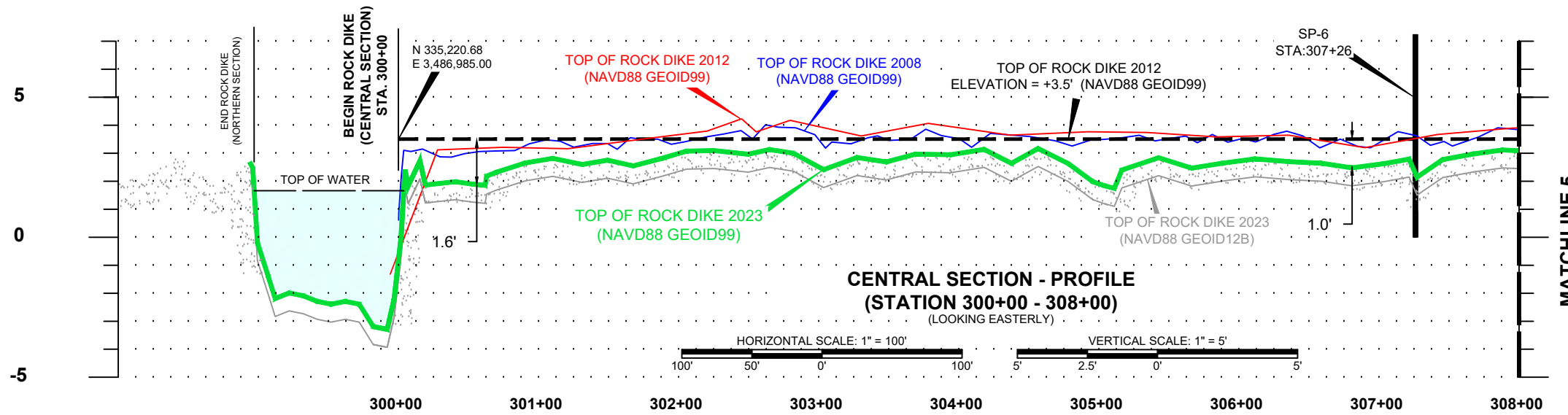
DRAWN BY: IMD	APPROVED BY: KAK
DATE: 06/29/2023	JOB NO: 2023.0864
DRAWING NAME: 2023.0864_T01.dwg	
PROJECTION: LA SOUTH ZONE GEO. DATUM: NAD83   VERT. DATUM: NAVD88 GRID UNITS: US SURVEY FEET (GEOID99)	
SHEET NO: 5	OF 9

**CENTRAL SECTION OVERVIEW**

**ROCK DIKE AND SETTLEMENT PLATE SURVEY**  
 WEST LAKE BOUDREAUX SHORELINE PROTECTION  
 AND MARSH CREATION PROJECT (TE-0046)  
 COASTAL PROTECTION AND RESTORATION AUTHORITY  
 OF LOUISIANA  
 TERREBONNE PARISH, LOUISIANA

6/30/2023 - P:\Y-2023\2023.0864\DWG\PLAN VIEWS\_SET PLATE\_PISIPLAN VIEWS\_SET PLATES\_PIS.DWG

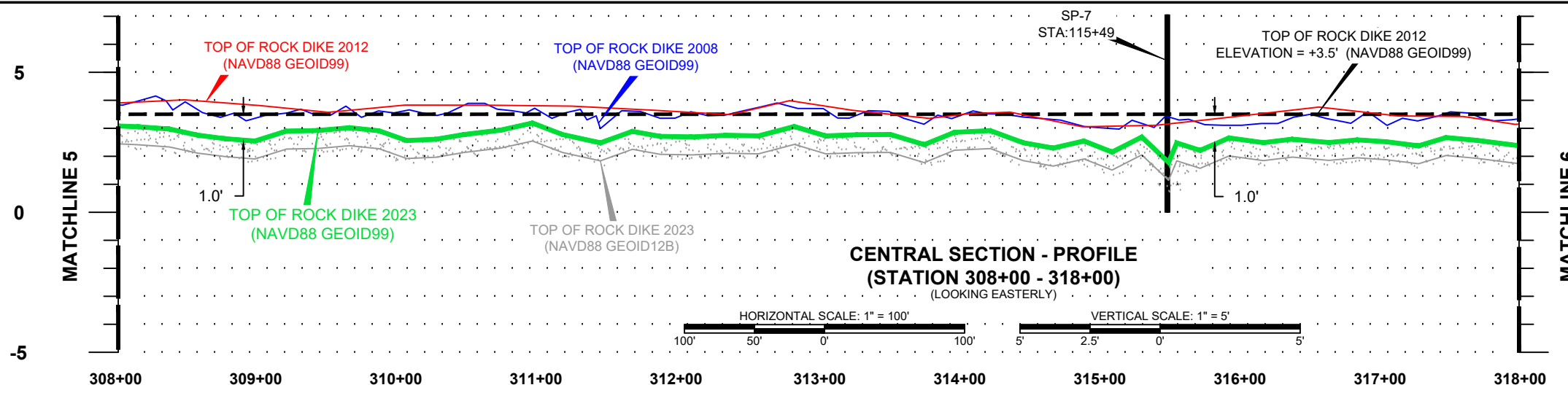




**CENTRAL SECTION - PROFILE  
(STATION 300+00 - 308+00)**  
(LOOKING EASTERLY)

HORIZONTAL SCALE: 1" = 100'  
VERTICAL SCALE: 1" = 5'

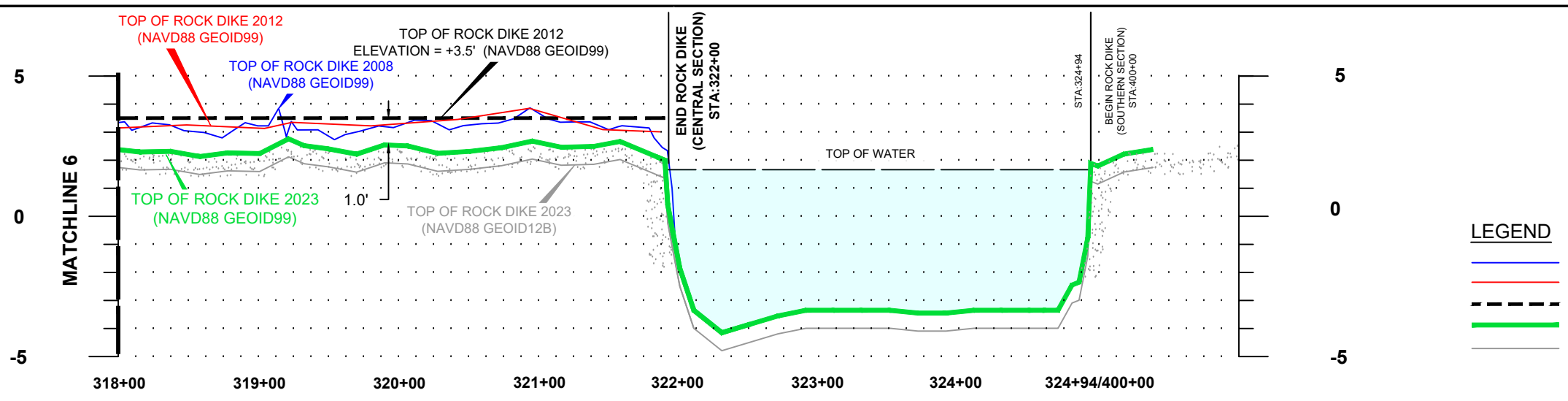
TE-0046 Rock Dike PROFILE SURVEY	DATE: 06/29/2023	SHEET 6 OF 9
WEST LAKE BOUDREAU SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)	STATE PROJECT NUMBER: TE-0046	FEDERAL PROJECT NUMBER:
APPROVED BY: KAK		



**CENTRAL SECTION - PROFILE  
(STATION 308+00 - 318+00)**  
(LOOKING EASTERLY)

HORIZONTAL SCALE: 1" = 100'  
VERTICAL SCALE: 1" = 5'

COASTAL PROTECTION AND RESTORATION AUTHORITY	DESIGNED BY:
450 LAUREL ST., SUITE 1501 BATON ROUGE, LOUISIANA 70801	DRAWN BY: IMD



**CENTRAL SECTION - PROFILE  
(STATION 318+00 - 322+00)**  
(LOOKING EASTERLY)

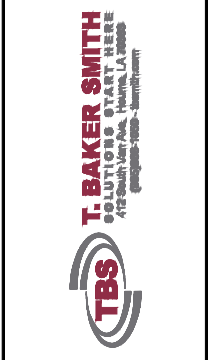
HORIZONTAL SCALE: 1" = 100'  
VERTICAL SCALE: 1" = 5'

PROJECT MEAN WATER LEVELS	
CRMS0392-H01 (JULY 2007 TO FEBRUARY 2023)	
GEOID99 = 1.4'	
GEOID12B = 0.6'	

**LEGEND**

	TOP OF ROCK DIKE 2008 (NAVD88 GEOID99)
	TOP OF ROCK DIKE 2012 (NAVD88 GEOID99)
	TOP OF DIKE ELEVATION (NAVD88 GEOID99)
	TOP OF ROCK DIKE 2023 (NAVD88 GEOID99)
	TOP OF ROCK DIKE 2023 (NAVD88 GEOID12B)

- NOTES**
1. AVERAGE TOP OF WATER AT TIME OF SURVEY = +1.7' NAVD88 (GEOID99).
  2. TO CONVERT VERTICAL DATUM FROM GEOID99 TO GEOID12B = (-0.6')
  3. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012
  4. THE 2008 AND 2012 "AS-BUILT" DATA FOR TOP OF ROCK DIKE WAS PROVIDED BY CLIENT FOR REFERENCE AND IS SHOWN IN VERTICAL DATUM OF NAVD88 (GEOID99).





**CENTERLINE OF ROCK DIKE - (SOUTHERN SECTION)**

PI NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET				DESCRIPTION
		EASTING	NORTHING	LATITUDE	LONGITUDE	
29	400+00	3,487,594.29	333,317.76	29°24'53.7591"	90°41'02.1545"	BEGIN ROCK DIKE
30	400+71	3,487,531.07	333,284.77	29°24'53.4360"	90°41'02.8715"	
31	401+75	3,487,477.08	333,196.47	29°24'52.5650"	90°41'03.4875"	
32	403+23	3,487,555.92	333,070.81	29°24'51.3165"	90°41'02.6042"	
33	404+52	3,487,529.80	332,944.60	29°24'50.0685"	90°41'02.9076"	
34	405+97	3,487,577.54	332,807.65	29°24'48.7101"	90°41'02.3766"	
35	412+88	3,487,162.38	332,255.97	29°24'43.2721"	90°41'07.1059"	
36	413+32	3,487,150.87	332,213.45	29°24'42.8518"	90°41'07.2388"	
37	413+96	3,487,205.91	332,180.15	29°24'42.5191"	90°41'06.6186"	
38	420+16	3,487,642.68	331,740.32	29°24'38.1405"	90°41'01.7085"	
39	421+70	3,487,540.61	331,624.67	29°24'37.0013"	90°41'02.8699"	
40	424+42	3,487,660.86	331,380.64	29°24'34.5788"	90°41'01.5260"	
41	425+80	3,487,798.88	331,383.35	29°24'34.5978"	90°40'59.9654"	
42	428+77	3,487,980.32	331,148.26	29°24'32.2603"	90°40'57.9290"	
43	430+02	3,487,955.37	331,025.66	29°24'31.0480"	90°40'58.2189"	
44	431+75	3,488,030.04	330,870.25	29°24'29.5054"	90°40'57.3847"	
45	434+90	3,488,342.70	330,827.00	29°24'29.0596"	90°40'53.8526"	
46	435+93	3,488,432.08	330,776.81	29°24'28.5577"	90°40'52.8452"	
47	437+40	3,488,574.53	330,814.68	29°24'28.9246"	90°40'51.2323"	
48	438+69	3,488,702.96	330,806.66	29°24'28.8380"	90°40'49.7808"	
49	440+23	3,488,857.04	330,818.29	29°24'28.9444"	90°40'48.0380"	
50	441+40	3,488,832.68	330,703.99	29°24'27.8143"	90°40'48.3208"	
51	445+13	3,488,463.84	330,649.84	29°24'27.2991"	90°40'52.4943"	
52	446+76	3,488,363.50	330,521.83	29°24'26.0375"	90°40'53.6370"	
53	451+19	3,488,201.58	330,109.46	29°24'21.9643"	90°40'55.4942"	
54	451+71	3,488,243.43	330,078.54	29°24'21.6559"	90°40'55.0230"	
55	452+38	3,488,242.88	330,010.86	29°24'20.9859"	90°40'55.0336"	
56	453+04	3,488,187.15	329,975.40	29°24'20.6380"	90°40'55.6659"	
57	454+51	3,488,217.11	329,831.61	29°24'19.2129"	90°40'55.3365"	
58	456+71	3,488,389.49	329,694.85	29°24'17.8493"	90°40'53.3964"	
59	459+35	3,488,639.33	329,610.45	29°24'16.9997"	90°40'50.5772"	END ROCK DIKE

\* TOTAL LENGTH OF SOUTHERN SECTION = 5,935'±

**TERREBONNE PARISH, LOUISIANA**



**CENTERLINE OF ROCK DIKE (SOUTHERN SECTION)**

<b>SETTLEMENT PLATES - (SOUTHERN SECTION)</b>							
PLATE NO	STA	SPCS NAD83 (2011), LOUISIANA SOUTH ZONE (1702), US SURVEY FEET, NAVD88 (GEOID99)					
		EASTING	NORTHING	LATITUDE	LONGITUDE	TOP OF ROCK ELEV.	TOP PIPE ELEV.
SP-8	405+04	3,487,546.09	332,895.54	29°24'49.5820"	90°41'02.7265"	3.02'	6.97'
SP-9	417+30	3,487,440.57	331,941.93	29°24'40.1476"	90°41'03.9807"	2.57'	8.88'
SP-10	430+45	3,487,972.69	330,986.67	29°24'30.6611"	90°40'58.0257"	2.13'	8.61'
SP-11	443+97	3,488,578.15	330,667.25	29°24'27.4650"	90°40'51.2009"	3.59'	8.56'

**LEGEND**

— ROCK DIKE CENTERLINE

SP-8 SETTLEMENT PLATES

**SURVEY NOTES:**

1. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012



SCALE: 1" = 300'

300' 150' 0' 300'

REV. NO: 00 REV. DATE: --/-- REV. BY: --

REVISION DESCRIPTION: --

DRAWN BY: IMD APPROVED BY: KAK

DATE: 06/29/2023 JOB NO: 2023.0864

DRAWING NAME: 2023.0864\_T01.dwg

PROJECTION: LA SOUTH ZONE  
GEO. DATUM: NAD83 | VERT. DATUM: NAVD88  
GRID UNITS: US SURVEY FEET (GEOID99)

SHEET NO: 7 OF 9

**SOUTHERN SECTION OVERVIEW**

**ROCK DIKE AND SETTLEMENT PLATE SURVEY**

WEST LAKE BOUDREAUX SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)

COASTAL PROTECTION AND RESTORATION AUTHORITY OF LOUISIANA

TERREBONNE PARISH, LOUISIANA

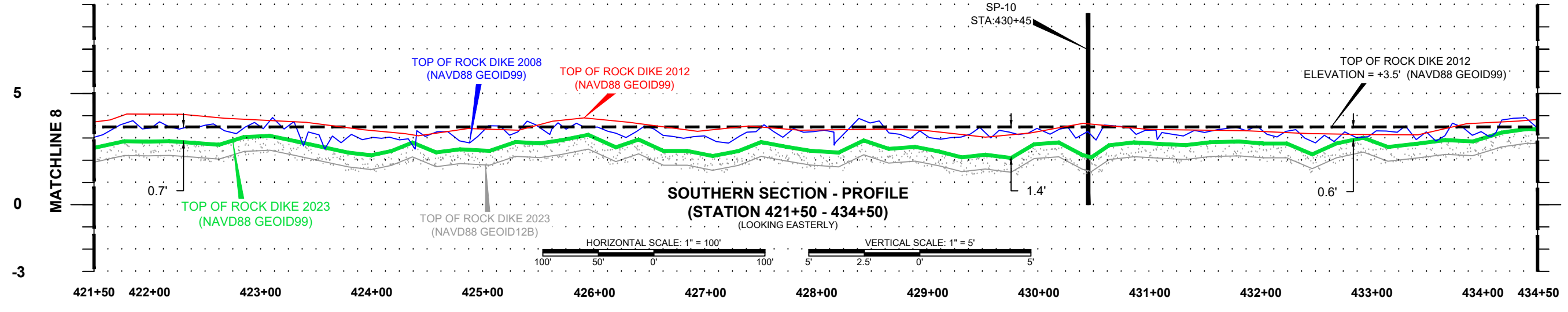
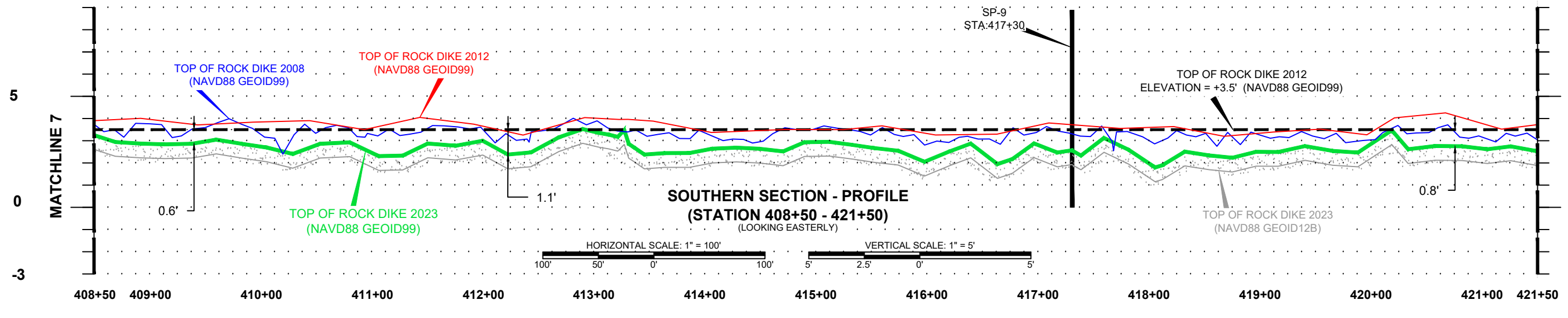
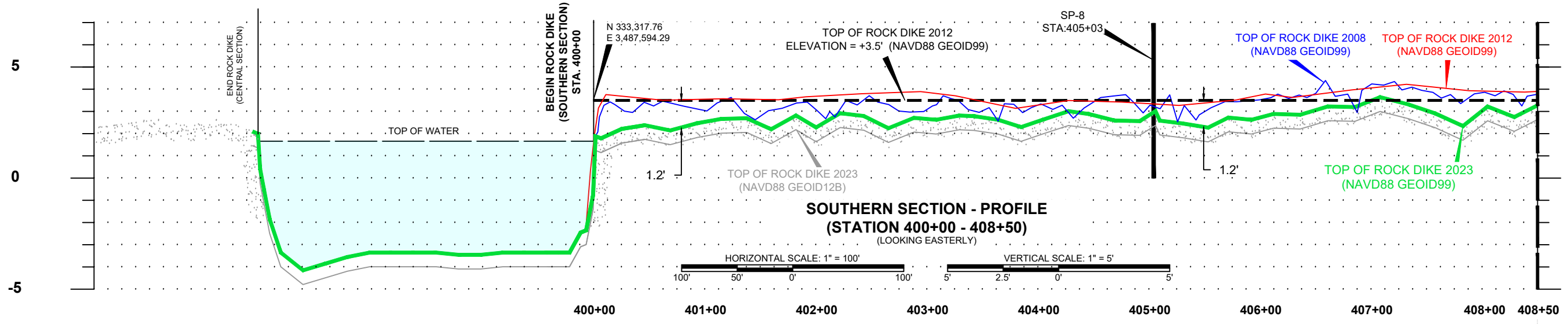
6/30/2023 - P:\Y-2023\2023.0864\DWG\PLAN VIEWS\_SET PLATE\_PIS.DWG





**PROJECT MEAN WATER LEVELS**  
 CRMS0392-H01  
 (JULY 2007 TO FEBRUARY 2023)  
 GEOID99 = 1.4'  
 GEOID12B = 0.6'

- LEGEND**
- TOP OF ROCK DIKE 2008 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2012 (NAVD88 GEOID99)
  - - - TOP OF DIKE ELEVATION (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID12B)

- NOTES**
1. AVERAGE TOP OF WATER AT TIME OF SURVEY = +1.7' NAVD88 (GEOID99).
  2. TO CONVERT VERTICAL DATUM FROM GEOID99 TO GEOID12B = (-0.6')
  3. TOP OF ROCK DIKE ELEVATION AND STATIONING BASIS ARE AS SHOWN IN "AS-BUILT" PLAN OF PROFILE ROCK DIKE CONSTRUCTED BY INLAND DREDGING COMPANY LLC DATED 07/27/2012
  4. THE 2008 AND 2012 "AS-BUILT" DATA FOR TOP OF ROCK DIKE WAS PROVIDED BY CLIENT FOR REFERENCE AND IS SHOWN IN VERTICAL DATUM OF NAVD88 (GEOID99).

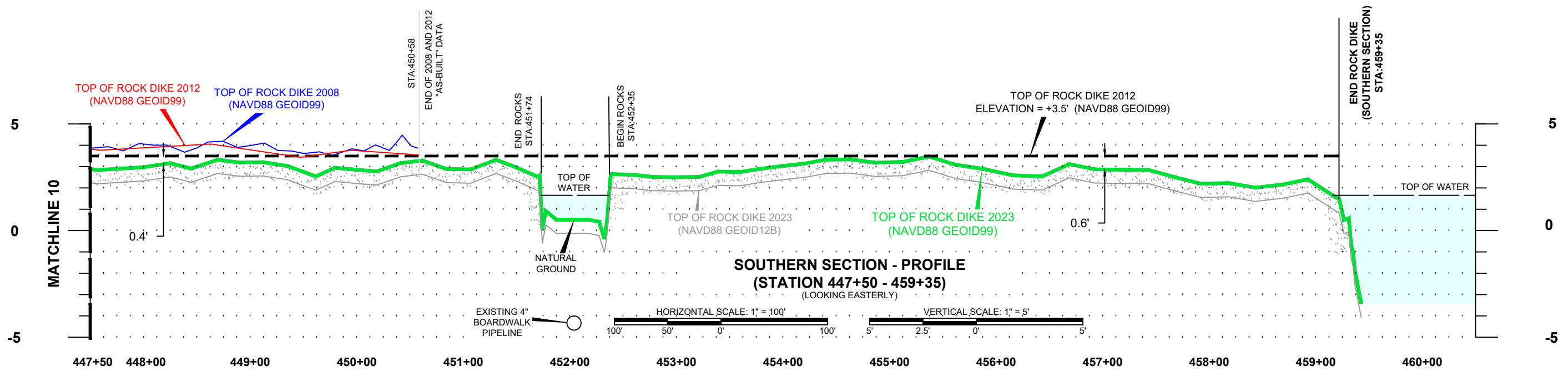
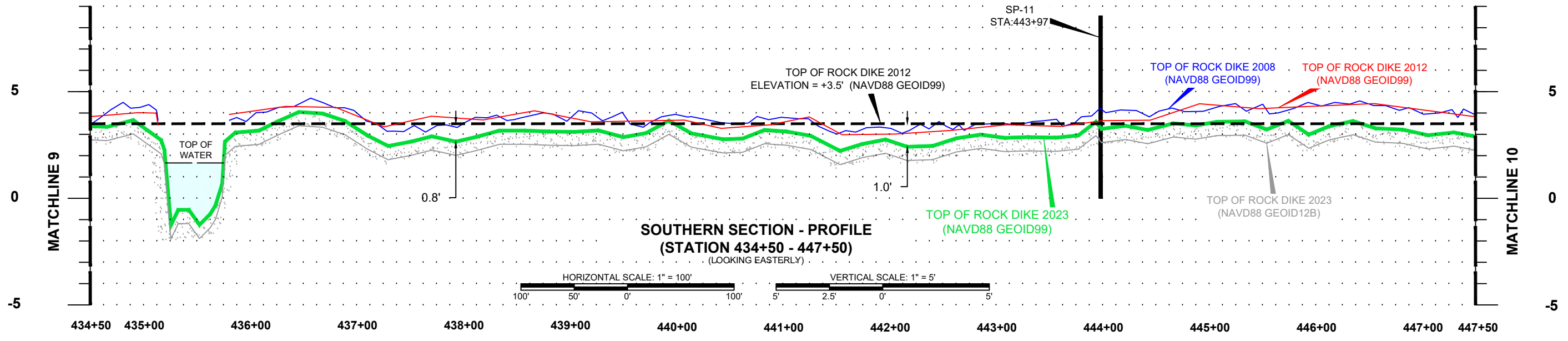


TE-0046 Rock Dike PROFILE SURVEY	DATE: 06/29/2023 SHEET 8 OF 9
WEST LAKE BOUDREAU SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)	STATE PROJECT NUMBER: TE-0046 FEDERAL PROJECT NUMBER: APPROVED BY: KAK
<b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 450 LAUREL ST., SUITE 1501 BATON ROUGE, LOUISIANA 70801	
	
 <b>T. BAKER SMITH</b> 4125 South Main Ave., Metairie, LA 70002 (504) 885-1111	

**PROJECT MEAN WATER LEVELS**  
 CRMS0392-H01  
 (JULY 2007 TO FEBRUARY 2023)  
 GEOID99 = 1.4'  
 GEOID12B = 0.6'

- LEGEND**
- TOP OF ROCK DIKE 2008 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2012 (NAVD88 GEOID99)
  - - - TOP OF DIKE ELEVATION (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID99)
  - TOP OF ROCK DIKE 2023 (NAVD88 GEOID12B)

- NOTES**
1. AVERAGE TOP OF WATER AT TIME OF SURVEY = +1.7' NAVD88 (GEOID99).
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  4. THE 2008 AND 2012 "AS-BUILT" DATA FOR TOP OF ROCK DIKE WAS PROVIDED BY CLIENT FOR REFERENCE AND IS SHOWN IN VERTICAL DATUM OF NAVD88 (GEOID99).



TE-0046 Rock Dike PROFILE SURVEY	WEST LAKE BOUDREAUX SHORELINE PROTECTION AND MARSH CREATION PROJECT (TE-0046)	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL ST., SUITE 1501 BATON ROUGE, LOUISIANA 70801	DESIGNED BY: KAK
DATE: 06/29/2023	STATE PROJECT NUMBER: TE-0046	DRAWN BY: IMD	APPROVED BY: KAK
SHEET 9 OF 9	FEDERAL PROJECT NUMBER:		

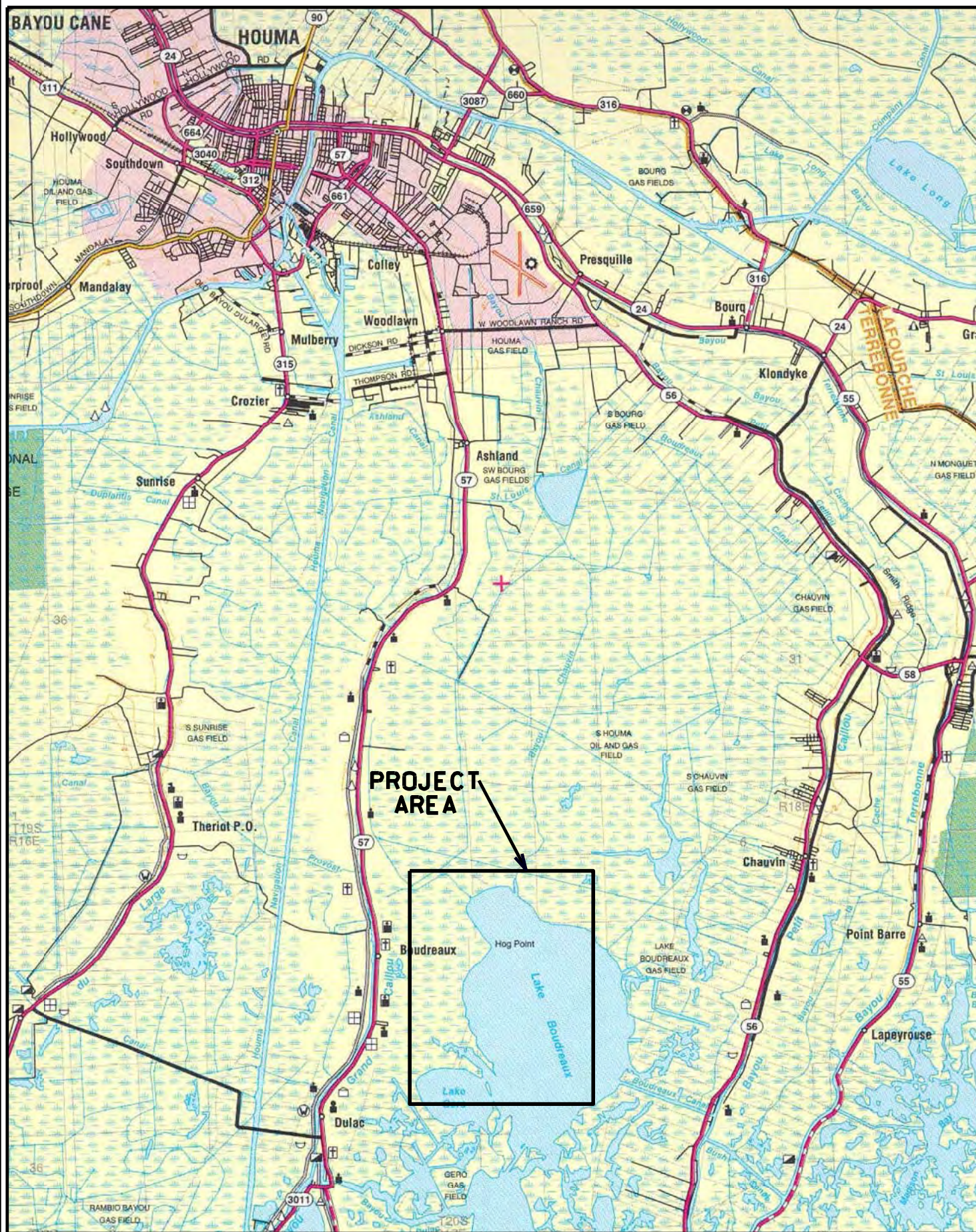


**T. BAKER SMITH**  
 CONSULTING ENGINEERS  
 418 South Main Ave., Metairie, LA 70002  
 (504) 885-1111

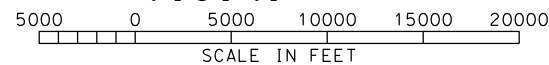
**APPENDIX “D”**

**“As-Built Plans, TE-46 – West Lake Boudreaux Construction Unit No. 1  
Terrebonne Parish, Louisiana”  
prepared for NRCS on July 27, 2012**



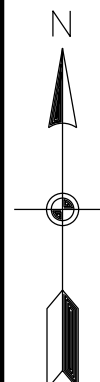


VICINITY MAP



MAPS COPYRIGHT "THE ROADS OF LOUISIANA". SHEARER PUBLISHING

**WEST LAKE BOUDREAUX**  
**SHORELINE PROTECTION AND MARSH CREATION**  
**PROJECT TE-46**  
**BUILT UNDER**  
**COASTAL WETLANDS, PLANNING, PROTECTION AND RESTORATION ACT**  
**PUBLIC LAW 101-646**  
**BY THE**  
**UNITED STATES FISH AND WILDLIFE SERVICE**  
**OF THE**  
**UNITED STATES DEPARTMENT OF INTERIOR**  
**WITH THE ASSISTANCE OF**  
**NATURAL RESOURCES CONSERVATION SERVICE**  
**OF THE**  
**UNITED STATES DEPARTMENT OF AGRICULTURE**  
**2006**

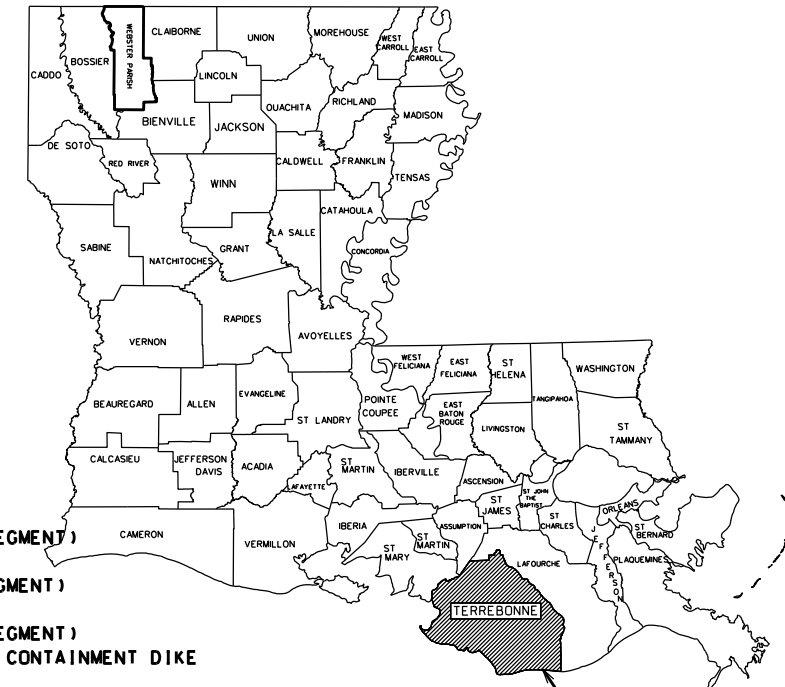


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SHEET NO. DESCRIPTION

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- 3 LANDOWNER LISTINGS
- 4 PROJECT MAP
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- 11 PLAN MAP-ROCK DIKE CENTRAL SEGMENT
- 12&13 PLAN AND PROFILE-ROCK DIKE (CENTRAL SEGMENT)
- 14 PLAN MAP-ROCK DIKE SOUTHERN SEGMENT
- 15-19 PLAN AND PROFILE-ROCK DIKE (SOUTHERN SEGMENT)
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"AS-BUILT"



**LOCATION IN LOUISIANA**  
**TERREBONNE PARISH**

"AS-BUILT PLANS"

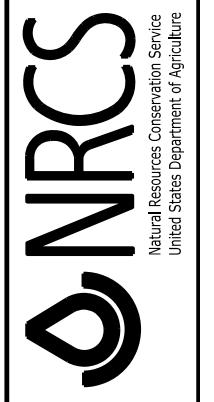
SUBMITTED BY: WARREN J. BLANCHARD 10/11/2011  
 GOVERNMENT REPRESENTATIVE DATE

APPROVED BY: ASSISTANT STATE CONSERVATION ENGINEER DATE  
MARI GILFORD 07/27/2012  
 STATE CONSERVATION ENGINEER DATE

CONTRACT NO. AG-7217-G-07-0110 DATE  
 CONTRACTOR INLAND DREDGING COMPANY LLC  
 INSPECTOR \_\_\_\_\_  
 DATE OF COMPLETION \_\_\_\_\_

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMILLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GIERING III		12/06

COVER SHEET  
 TE-46 - WEST LAKE BOUDREAUX  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



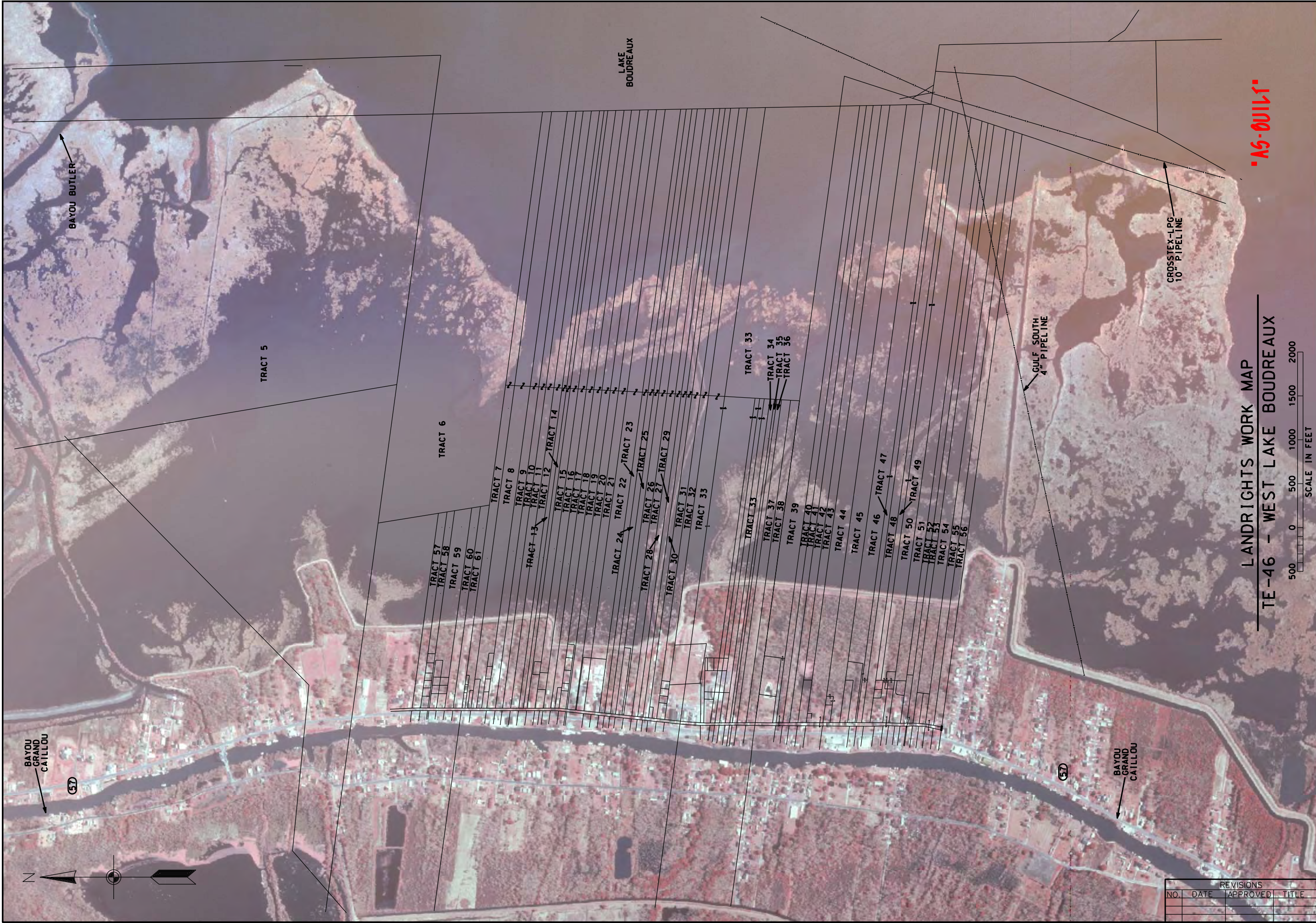
FILE NAME  
LA-346

DRAWING NAME  
LA346001.dgn

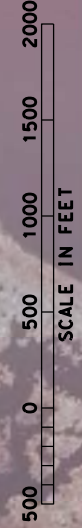
SHEET 01 of 65

REVISIONS		
NO.	DATE	TITLE





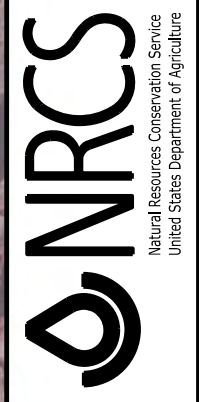
LANDRIGHTS WORK MAP  
 TE-46 - WEST LAKE BOUDREAU



"A5-0011"

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. CREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GIERING III		12/06

LANDRIGHTS MAP  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



FILE NAME  
 LA-346  
 DRAWING NAME  
 LA346002.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE



TRACT #5	XXX
TRACT #6	XXX
TRACT #7	CLAUDE P. PRICE
TRACT #8	XXX
TRACT #9	Laura PORCHE AUTHEMENT
TRACT #10	LARRY AUTHEMENT
TRACT #11	PEGGY DUPLANTIS,ET AL
TRACT #12	CALVIN J. AUTHEMENT
TRACT #13	CALVIN J. AUTHEMENT
TRACT #14	KIM A. DOMANGUE
TRACT #15	DEBORAH CARNEY HEBERT
TRACT #16	REINALDO R. BEAL
TRACT #17	ERIC J. CARLOS
TRACT #18	KENNIE DWIGHT MARYLAND
TRACT #19	WILSON DUPLANTIS
TRACT #20	THE CONGREGATION OF THE H
TRACT #21	ROBERT J. BOUDREAU, ET A
TRACT #22	ROBERT J. BOUDREAU, ET A
TRACT #23	CLEUS C. BERGERON SR.
TRACT #24	MRS. BERTHA A. BOUDREAU
TRACT #25	DUPLANTIS EXPLORATION, INC.
TRACT #26	EUNICE BLANCHARD VOISIN
TRACT #27	JAMES J. COLLINS, JR.,ET
TRACT #28	BRYAN W. VOISIN
TRACT #29	WESLEY JOHN FITCH
TRACT #30	YVONNE CHAUVIN AUTHEMENT
TRACT #31	SIDNEY HEBERT
TRACT #32	LAWRENCE LUKE
TRACT #33	LL&E/ BURLINGTON RESOURC
TRACT #34	ANTOINE H. BOURG
TRACT #35	JAMES J. CARLOS
TRACT #36	ESTATE OF JAMES J. CARLOS
TRACT #37	XXX
TRACT #38	XXX
TRACT #39	XXX
TRACT #40	ESTHER C. GUIDRY ET AL
TRACT #41	MOAH P. ORDOYNE
TRACT #42	PATRICIA CHARLES
TRACT #43	TRAVIS J. LUKE ET AL
TRACT #44	XXX
TRACT #45	XXX
TRACT #46	XXX
TRACT #47	XXX
TRACT #48	ROBERT J. BOUDREAU, SR.
TRACT #49	XXX
TRACT #50	XXX
TRACT #51	RYAN PROPERTIES INC., ET
TRACT #52	RYAN PROPERTIES INC., ET
TRACT #53	JEROME JOSEPH FANGUY
TRACT #54	ABEL J. BOUDREAU, ET AL
TRACT #55	CAMILLE J. COLLINS
TRACT #56	EDDIE VOISIN, JR.
TRACT #57	GLYNN J. DUPLANTIS
TRACT #58	PERCY PETER DUPLANTIS
TRACT #59	XXX
TRACT #60	JESSIE C. SCOTT, ET AL
TRACT #61	WILBERT JOS. MARONGE

AS-BUILT

REVISIONS			
NO.	DATE	APPROVED	TITLE

FILE NAME  
LA-346

DRAWING NAME  
LA346003.dgn

SHEET 03 of 65



LANDOWNER LISTINGS  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. CREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GIERING III		12/06

**MODIFICATION #2**

TBM	NORTHING	EASTING	ELEV.	DESCRIPTION
TBM BX01	339142.82	3489241.45	3.12	2" DIA. CROSS-TIE POST
TBM BX02	333444.62	3487037.07	3.02	2" DIA. CROSS-TIE POST

NOTES:  
 1. SEE SHEETS 24-31, AND 35 FOR DETAILED MARSH CREATION PLANS.  
 2. SEE SHEETS 5 THRU 19 FOR DETAILS OF ROCK DIKE WITH PARALLEL EARTHEN CONTAINMENT.  
 3. THE NUMERICAL VALUE SHOWN NEXT TO THE PARALLEL LINES ARE THE TOP OF PIPE ELEVATION.  
 4. NO EXCAVATION WILL BE ALLOWED WITHIN 550' OF THE OYSTER LEASE LIMITS.  
 5. THE EARTHEN CONTAINMENT DIKES ARE SHOWN WITH TWO STATIONINGS. THE INTERSECTION OF THE ROCK DIKE, THE PARALLEL EARTHEN CONTAINMENT DIKE HAS THE SAME STATIONS AS THAT OF THE ROCK DIKE.  
 6. PERPENDICULAR ACCESS ARE SHOWN FOR LOCATION RELATIVE TO THE BANKLINE. THE LENGTH OF ACCESS MAY EXTEND FURTHER INTO THE LAKE AREA.



**MODIFICATION #1**  
ALIGN PHOTOIMAGERY

AERIAL PHOTO OVERLAY  
PHOTO DATE - SEPT. 2007

**AS-BUILT**

**PROJECT PLAN MAP - TE-46**



REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M1	07/07	R.F.	D.E.
M2	07/07	R.F.	D.E.

**FILE NAME**  
LA-346

**DRAWING NAME**  
LA346004M2.dgn

**DESIGNED** R. FAULKNER 01/05

**DRAWN** A.J. GREMILLION 01/05

**CHECKED** B.A. STICKER 06/06

**APPROVED** E.J. GIERING III 12/06

**PROJECT PLAN MAP**

**TE-46 - WEST LAKE BOUDREUX**

**CONSTRUCTION UNIT NO. 1**

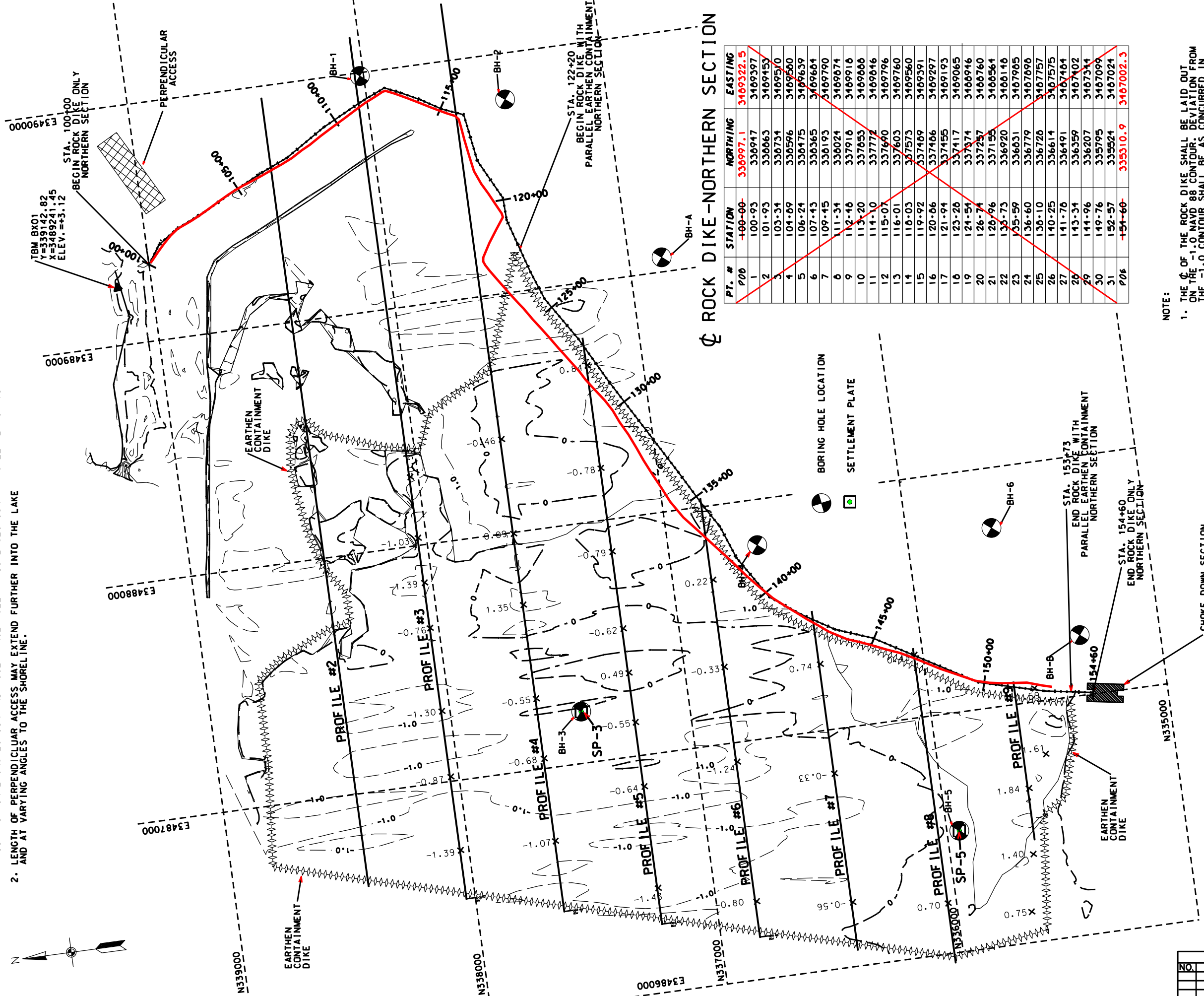
**TERREBONNE PARISH, LOUISIANA**

**NCRS**  
Natural Resources Conservation Service  
United States Department of Agriculture



NOTE:

1. MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL ON THE NORTHERN SECTION, FROM STA. 100+00 - STA. 122+20 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO FINAL INSPECTION AND ACCEPTANCE. SEE TYPICAL SECTION #4, SHEET 21 OF 65.
2. LENGTH OF PERPENDICULAR ACCESS MAY EXTEND FURTHER INTO THE LAKE AND AT VARYING ANGLES TO THE SHORELINE.



Ø ROCK DIKE - NORTHERN SECTION

PT. #	STATION	NORTHING	EASTING
P00	+100-00	336997.1	3469322.5
1	100-93	336947	3469397
2	101-93	336063	3469453
3	103-34	336734	3469570
4	104-69	336596	3469560
5	106-24	336475	3469639
6	107-43	336365	3469664
7	109-15	336193	3469790
8	111-34	336024	3469874
9	112-16	337916	3469916
10	113-20	337653	3469868
11	114-00	337772	3469816
12	115-07	337690	3469796
13	116-01	337603	3469760
14	116-03	337573	3469560
15	119-92	337469	3469391
16	120-66	337406	3469297
17	121-94	337455	3469193
18	123-20	337417	3469065
19	124-54	337374	3468946
20	126-74	337257	3468760
21	128-96	337156	3468564
22	130-73	336920	3468116
23	135-59	336031	3467985
24	136-60	336779	3467898
25	138-10	336726	3467575
26	140-25	336614	3467575
27	141-76	336491	3467484
28	143-34	336359	3467402
29	144-96	336207	3467344
30	149-76	335795	3467099
31	152-57	335524	3467024
P06	+154-60	335310.9	3467002.3

NOTE:

1. THE Ø OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.
3. THE TOPO SHOWN IS FROM PRE-HURRICANE SURVEYS. THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.
4. PT. NO. 1 THRU NO. 31 HAVE CHANGED DUE TO -1.0' CONTOUR. ALSO THE STATIONING HAS CHANGED ON THE ROCK DIKE.

WEST LAKE BOUDREUX - ROCK DIKE  
NORTHERN SECTION - PLAN VIEW



CHOKEDOWN SECTION (SEE SHEET 22 & 23 FOR DETAILS)

REVISIONS			
NO.	DATE	APPROVED	TITLE

**AS-BUILT**

PLAN VIEW-NORTHERN ROCK DIKE  
TE-46 - WEST LAKE BOUDREUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

File Name  
LA-346

Drawing Name  
LA346005.dgn

Sheet 05 of 65

Designed R. FAULKNER Date 01/05

Drawn A.J.J. GREMILLION Date 01/05

Checked B.A. STICKER Date 06/06

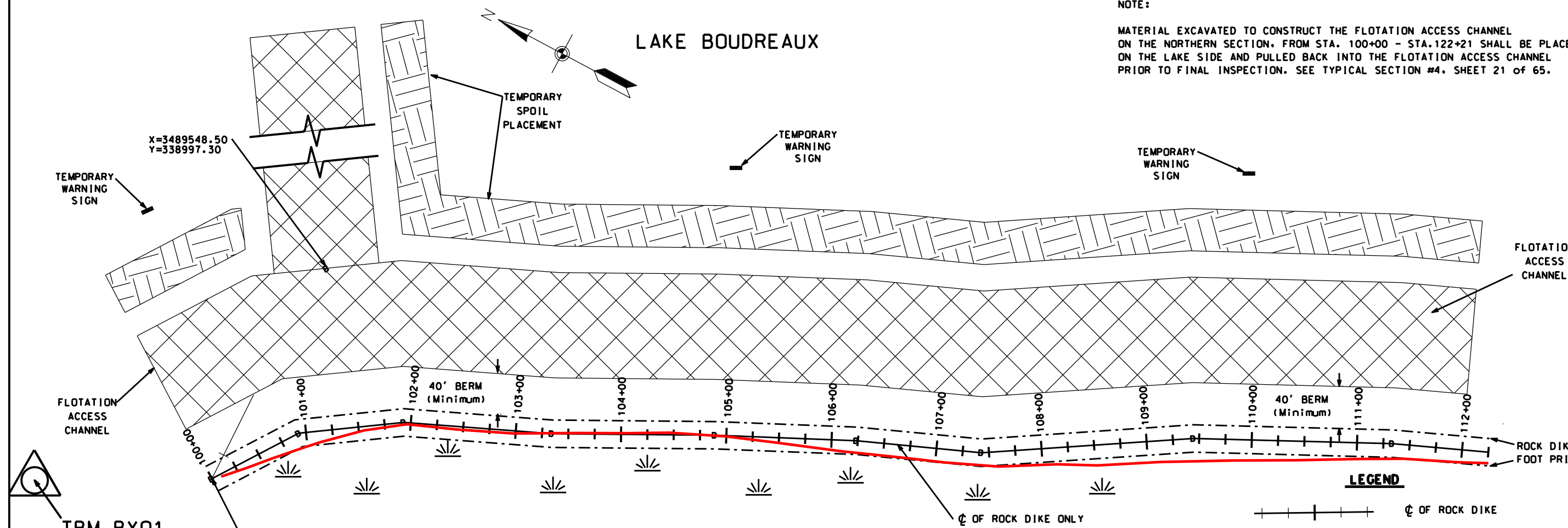
Approved E.J.J. GIERING III Date 12/06

NRC  
Natural Resources Conservation Service  
United States Department of Agriculture

LAKE BOUDREAUX

NOTE:

MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL ON THE NORTHERN SECTION, FROM STA. 100+00 - STA. 122+21 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO FINAL INSPECTION. SEE TYPICAL SECTION #4, SHEET 21 of 65.



X=3489548.50  
Y=338997.30

TEMPORARY WARNING SIGN

TEMPORARY SPOIL PLACEMENT

TEMPORARY WARNING SIGN

TEMPORARY WARNING SIGN

FLOTATION ACCESS CHANNEL

FLOTATION ACCESS CHANNEL

ROCK DIKE FOOT PRINT

STA. 100+00 - POB (BEGIN ROCK DIKE-NORTHERN SECTION)  
N=338997.07, E=3489322.46  
THIS POINT MAY BE ADJUSTED IN THE FIELD BY THE COTR.

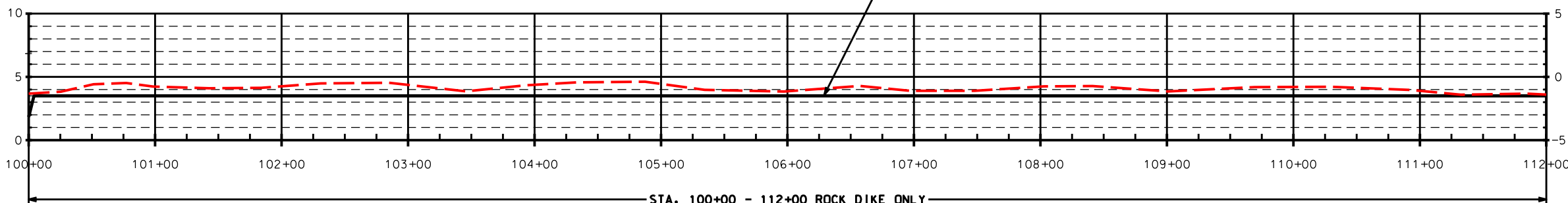
PLAN NORTHERN SECTION  
STATION 100+00 - 112+00



LEGEND

- $\phi$  OF ROCK DIKE
- BORING HOLE LOCATION
- TOE OF ROCK DIKE
- SETTLEMENT PLATE
- FLOTATION ACCESS CHANNEL

FINISH TOP OF ROCK DIKE  
ELEV. = +3.5



PROFILE - NORTHERN SECTION  
STATION 100+00 - 112+00

NOTE:

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

"AS-BUILT"

NOTE: STATIONING OF THE ROCK DIKE HAS CHANGED.

NOTE: TEMPORARY WARNING SIGNS SHALL BE PLACED IN THE FIELD AS CONCURRED IN BY THE COTR. SPACING SHALL NOT EXCEED 500'. SEE SHEET 45 of 65 FOR WARNING SIGN DETAILS.

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

REVISIONS			
NO.	DATE	APPROVED	TITLE

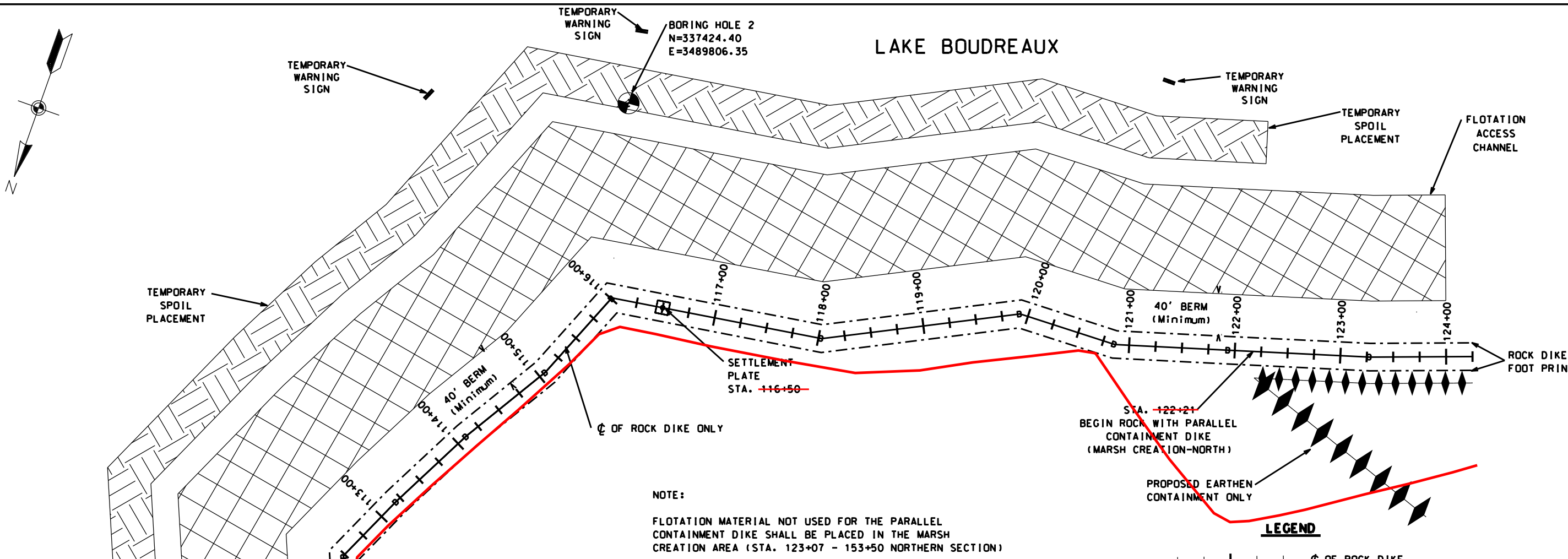
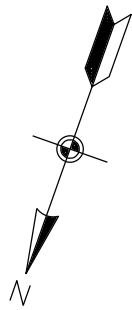
Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PLAN & PROFILE-ROCK DIKE - NORTHERN SEC.  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name  
LA-346

Drawing Name  
LA346006.dgn

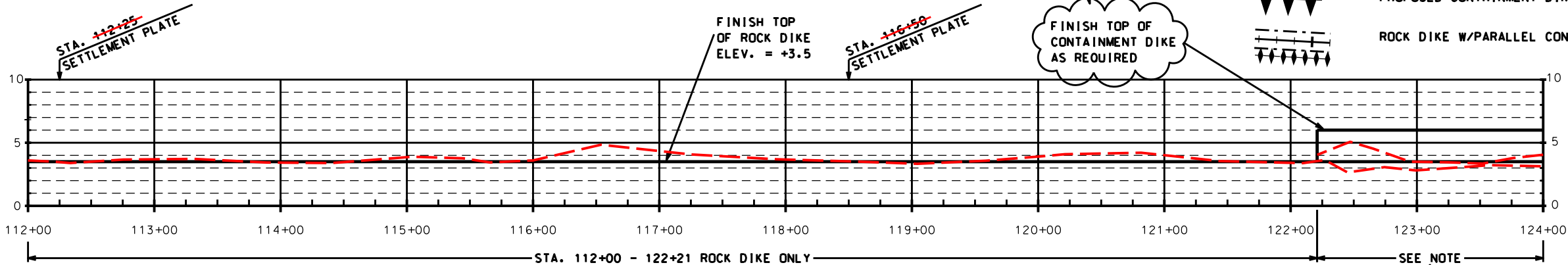


NOTE:  
 FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA (STA. 123+07 - 153+50 NORTHERN SECTION)

**PLAN NORTHERN SECTION  
 STATION 112+00 - 124+00**



AMENDMENT #2



**PROFILE - NORTHERN SECTION  
 STATION 112+00 - 124+00**

- NOTE:
1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
  2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
  3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

NOTE: STATIONING OF THE ROCK DIKE HAS CHANGED.

NOTE:  
 TEMPORARY WARNING SIGNS SHALL BE PLACED IN THE FIELD AS CONCURRED IN BY THE COTR. SPACING SHALL NOT EXCEED 500'. SEE SHEET 45 OF 65 FOR WARNING SIGN DETAILS.

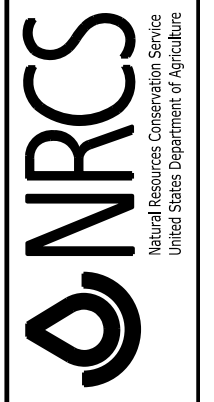
**"AS-BUILT"**

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.

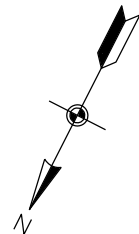
Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLION	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PLAN & PROFILE - ROCK DIKE - NORTHERN SEC.  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



File Name  
 LA-346

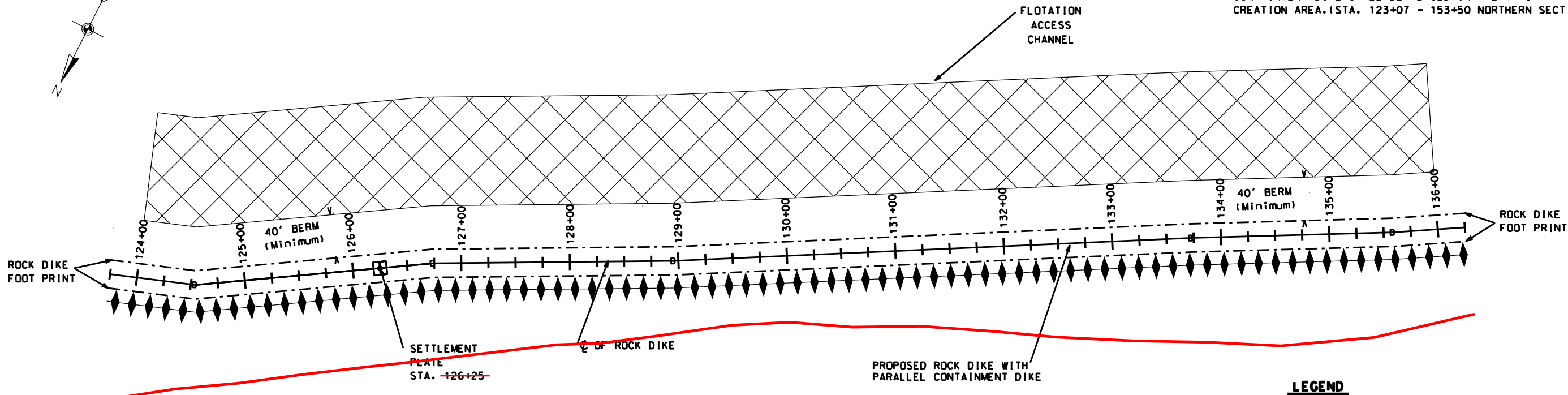
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LAKE BOUDREAUX

NOTE:

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 123+07 - 153+50 NORTHERN SECTION)



NOTE:

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

PLAN NORTHERN SECTION  
STATION 124+00 - 136+00



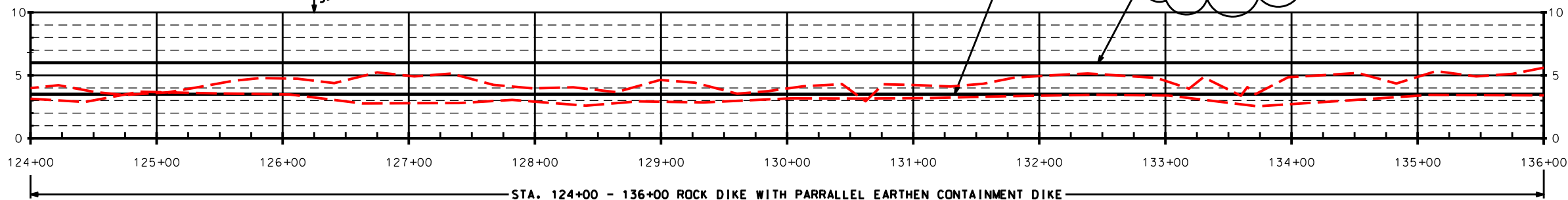
LEGEND

- $\phi$  OF ROCK DIKE
- BORING HOLE LOCATION
- TOE OF DIKE
- SETTLEMENT PLATE
- FLOTATION ACCESS CHANNEL
- PROPOSED CONTAINMENT DIKE ONLY
- ROCK DIKE W/PARALLEL CONTAINMENT DIKE

AMENDMENT #2

FINISH TOP OF ROCK DIKE  
ELEV. = +3.5

FINISH TOP OF CONTAINMENT DIKE  
AS REQUIRED



PROFILE - NORTHERN SECTION  
STATION 124+00 - 136+00

**"AS-BUILT"**

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLION	A.J. GREMILLION	A.J. GREMILLION
01/05				
01/05				
01/05				

PLAN & PROFILE-ROCK DIKE - NORTHERN SEC.  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name  
LA-346

Drawing Name  
LA346008A2.dgn

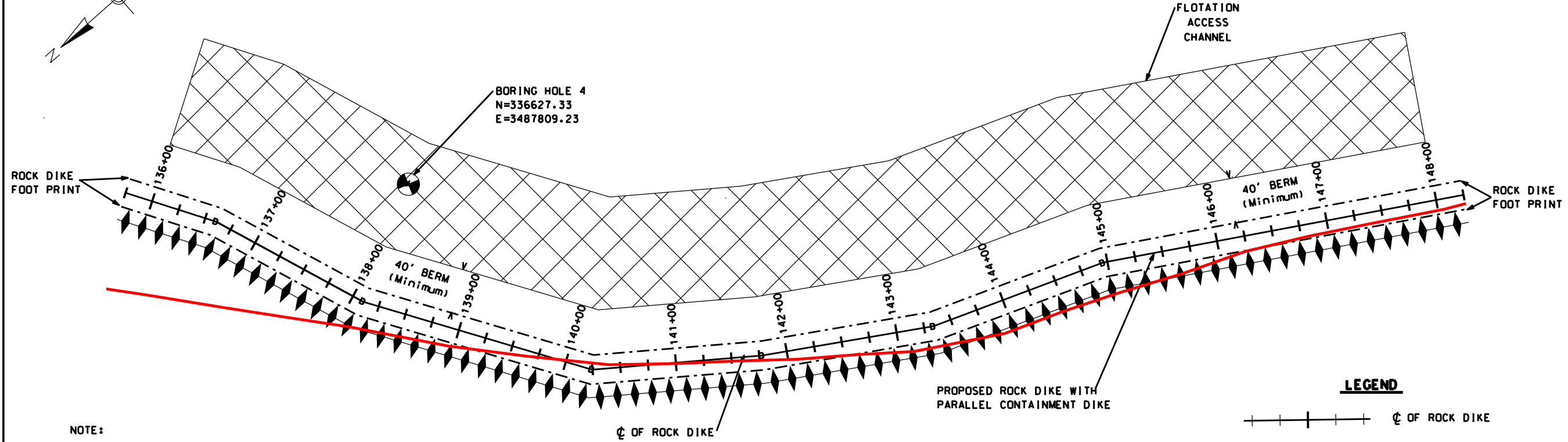
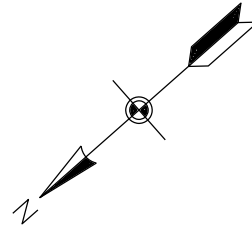


# LAKE BOUDREAUX

NOTE:

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 122+21 - 153+69 NORTHERN SECTION)

Date	01/05
Designed	R. FAULKNER
Drawn	A.J. GREMILLON
Checked	B.A. STICKER
Approved	E.J. GIERING III



- NOTE:
1. THE C OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
  2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
  3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

## PLAN NORTHERN SECTION STATION 136+00 - 148+00

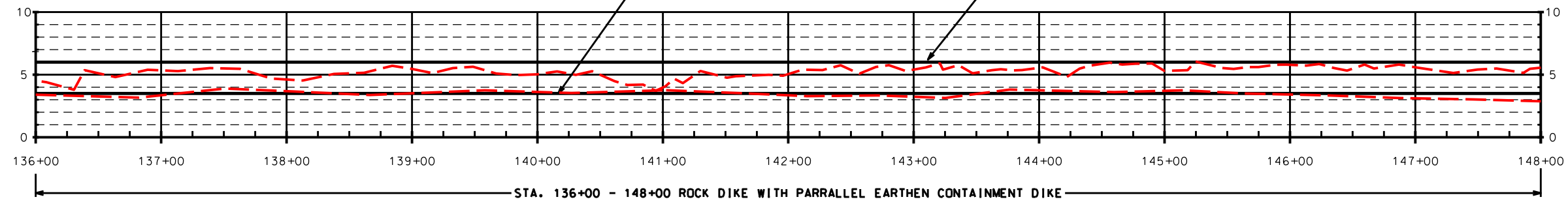


AMENDMENT #2

FINISH TOP OF CONTAINMENT DIKE AS REQUIRED

### LEGEND

- C OF ROCK DIKE
- BORING HOLE LOCATION
- TOE OF DIKE
- SETTLEMENT PLATE
- FLOTATION ACCESS CHANNEL
- PROPOSED CONTAINMENT DIKE ONLY
- ROCK DIKE W/PARALLEL CONTAINMENT DIKE



## PROFILE - NORTHERN SECTION STATION 136+00 - 148+00

"AS-BUILT"

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

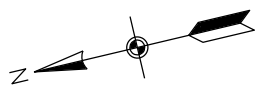
PLAN & PROFILE-ROCK DIKE - NORTHERN SEC.  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name  
LA-346

Drawing Name  
LA346009A2.dgn

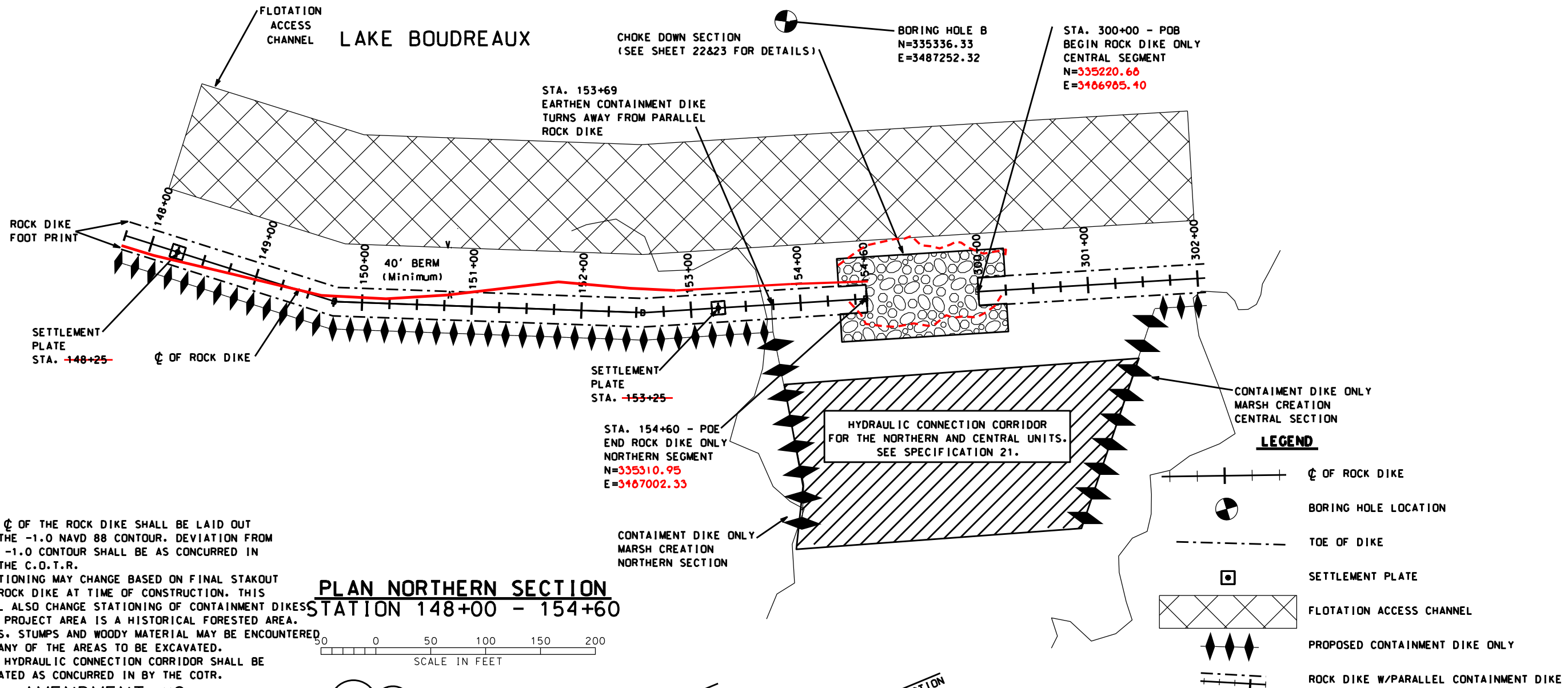
REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.



**NOTE:**

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 122+21 - 153+69 NORTHERN SECTION)

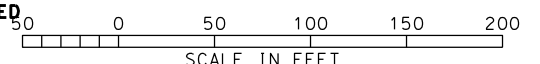
TEMPORARY WARNING SIGN



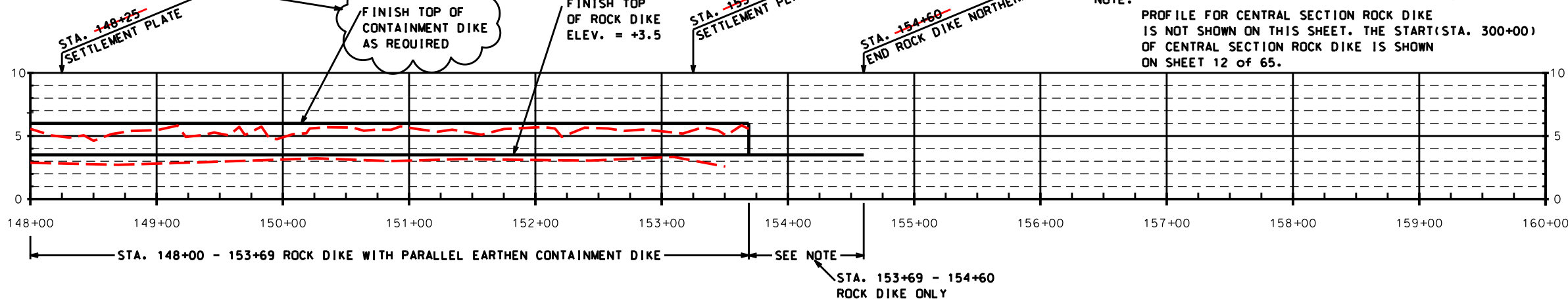
**NOTE:**

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.
4. THE HYDRAULIC CONNECTION CORRIDOR SHALL BE LOCATED AS CONCURRED IN BY THE COTR.

**PLAN NORTHERN SECTION  
STATION 148+00 - 154+60**



**AMENDMENT #2**



**NOTE:**

PROFILE FOR CENTRAL SECTION ROCK DIKE IS NOT SHOWN ON THIS SHEET. THE START (STA. 300+00) OF CENTRAL SECTION ROCK DIKE IS SHOWN ON SHEET 12 OF 65.

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

**PROFILE - NORTHERN SECTION  
STATION 148+00 - 154+60**

**NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.**

**NOTE:** TEMPORARY WARNING SIGNS SHALL BE PLACED IN THE FIELD AS CONCURRED IN BY THE COTR. SPACING SHALL NOT EXCEED 500'. SEE SHEET 45 OF 65 FOR WARNING SIGN DETAILS.

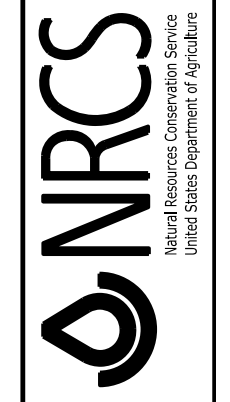
**"AS-BUILT"**

**LEGEND**

- $\phi$  OF ROCK DIKE
- BORING HOLE LOCATION
- TOE OF DIKE
- SETTLEMENT PLATE
- FLOTATION ACCESS CHANNEL
- PROPOSED CONTAINMENT DIKE ONLY
- ROCK DIKE W/PARALLEL CONTAINMENT DIKE

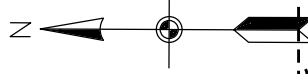
Date	01/05
Designed	R. FAULKNER
Drawn	A.J.J. GREMILLION
Checked	B.A. STICKER
Approved	E.J.J. GIERING III

**PLAN & PROFILE - ROCK DIKE - NORTHERN SEG.**  
**TE-46 - WEST LAKE BOUDREAU**  
**CONSTRUCTION UNIT NO. 1**  
**TERREBONNE PARISH, LOUISIANA**



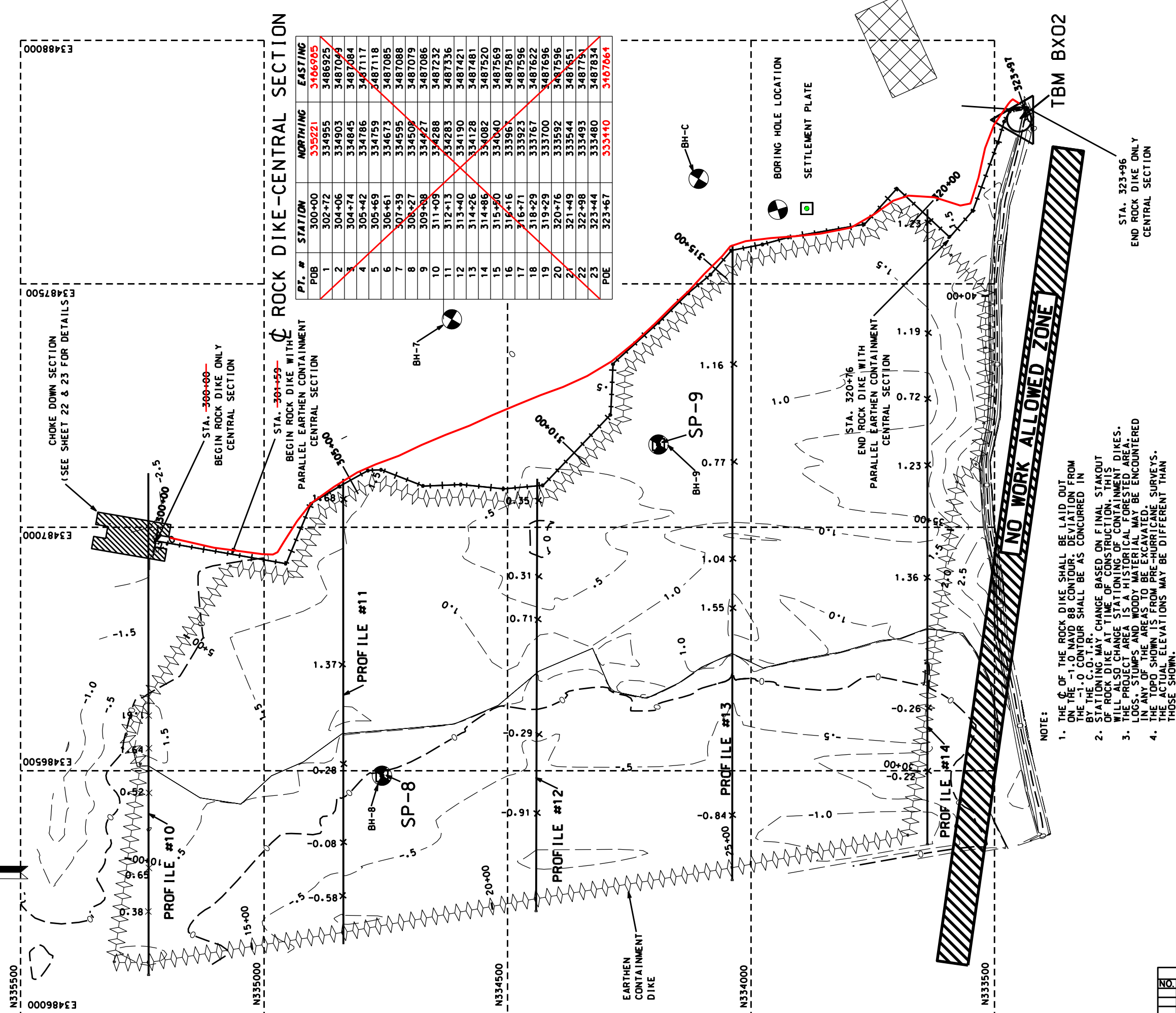
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Drawing Name	LA346010A2.dgn
Sheet	10A2 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.



NOTE:  
MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL ON THE CENTRAL SECTION, FROM STA. 300+00 - STA. 301+59 AND FROM STA. 320+76 - STA. 323+97 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO INSPECTION. (SEE TYPICAL SECTION #4, SHEET 21 OF 65.)

NOTE:  
FLOTATION MATERIAL NOT USED FOR THE CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 301+59 - 320+76 CENTRAL SECTION)



PT. #	STATION	NORTHING	EASTING
P0B	300+00	335221	3406905
1	302+72	334955	3486925
2	304+06	334903	3487049
3	304+74	334845	3487084
4	305+42	334786	3487117
5	305+69	334759	3487118
6	306+61	334673	3487085
7	307+39	334595	3487088
8	308+27	334508	3487079
9	309+08	334427	3487086
10	311+09	334288	3487232
11	312+13	334283	3487336
12	313+40	334190	3487421
13	314+26	334128	3487481
14	314+86	334082	3487520
15	315+50	334040	3487569
16	316+16	333967	3487581
17	316+71	333923	3487596
18	318+29	333767	3487622
19	319+29	333700	3487696
20	320+76	333592	3487596
21	321+49	333544	3487651
22	322+98	333493	3487751
23	323+44	333480	3487834
P0E	323+67	333440	3407064

- NOTE:
1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
  2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
  3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS, AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.
  4. THE TOPO SHOWN IS FROM PRE-HURRICANE SURVEYS. THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

**WEST LAKE BOUDREAU - ROCK DIKE**  
**CENTRAL SECTION - PLAN VIEW**



AS-BUILT

REVISIONS			
NO.	DATE	APPROVED	TITLE

File Name  
LA-346

Drawing Name  
LA346011.dgn

Sheet 11 of 65

Date  
01/05

Designed  
R. FAULKNER

Drawn  
A.J.J. GREMILLON

Checked  
B.A. STICKER

Approved  
E.J.J. GIERING III

PLAN VIEW-CENTRAL ROCK DIKE

TE-46 - WEST LAKE BOUDREAU

CONSTRUCTION UNIT NO. 1

TERREBONNE PARISH, LOUISIANA

NRC  
Natural Resources Conservation Service  
United States Department of Agriculture



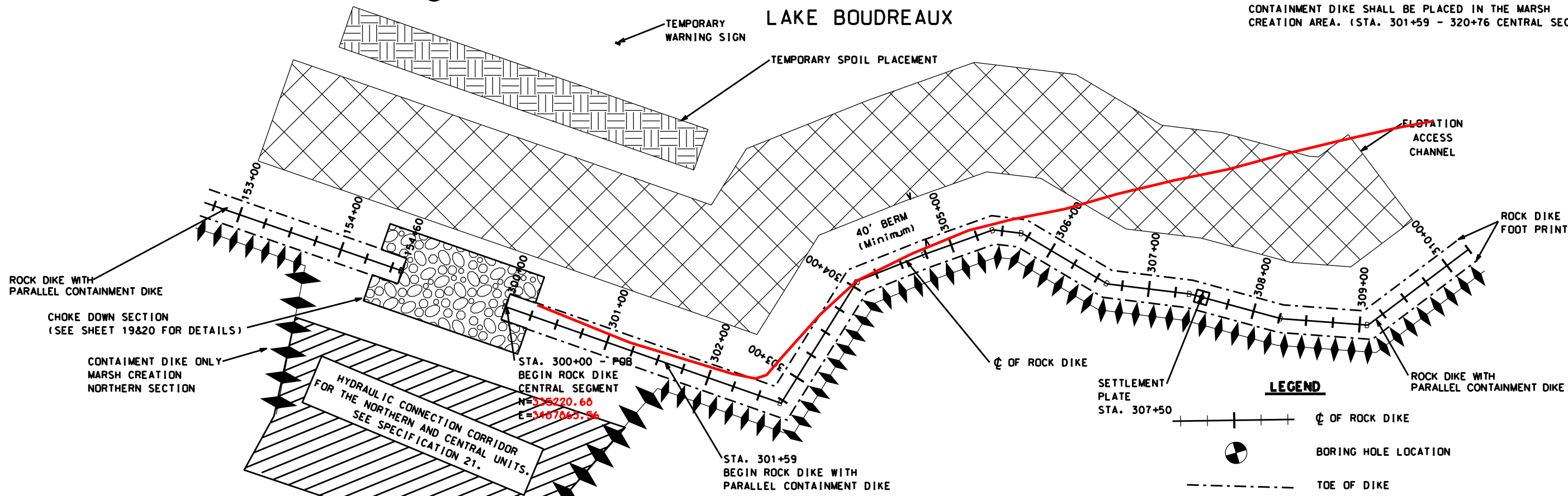
BORING HOLE B  
N=335336.33  
E=3487252.32

NOTE:  
MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL FROM STA. 153+60 - STA.301+59 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO INSPECTION. SEE TYPICAL SECTION #4, ON SHEET 21 OF 65.

BORING HOLE 7  
N=334614.32  
E=3487427.19

NOTE:

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 301+59 - 320+76 CENTRAL SECTION)



**PLAN - CENTRAL SEGMENT**  
STATION 0+00 - 10+00



AMENDMENT #2

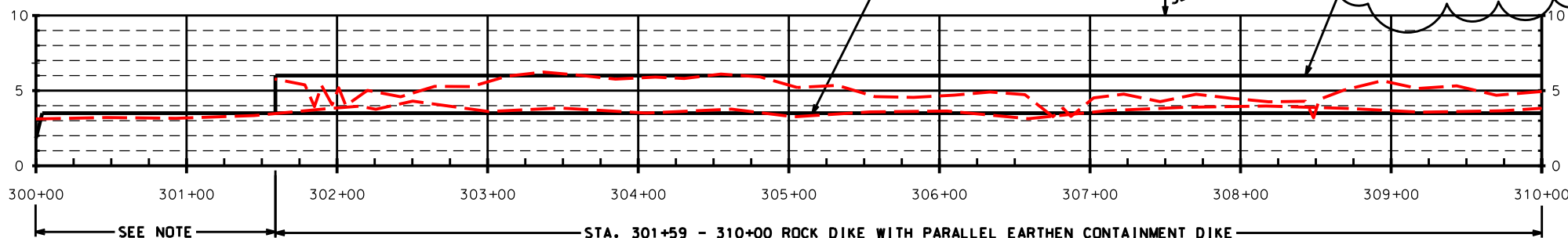
FINISH TOP OF ROCK DIKE  
ELEV. = +3.5

STA. 307+50  
SETTLEMENT PLATE

FINISH TOP OF EARTHEN CONTAINMENT DIKE  
AS REQUIRED

NOTE:

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.



**PROFILE - CENTRAL SECTION**  
STATION 300+00 - 310+00

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.

PLAN & PROFILE-ROCK DIKE- CENTRAL SEC.  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				



File Name  
LA-346

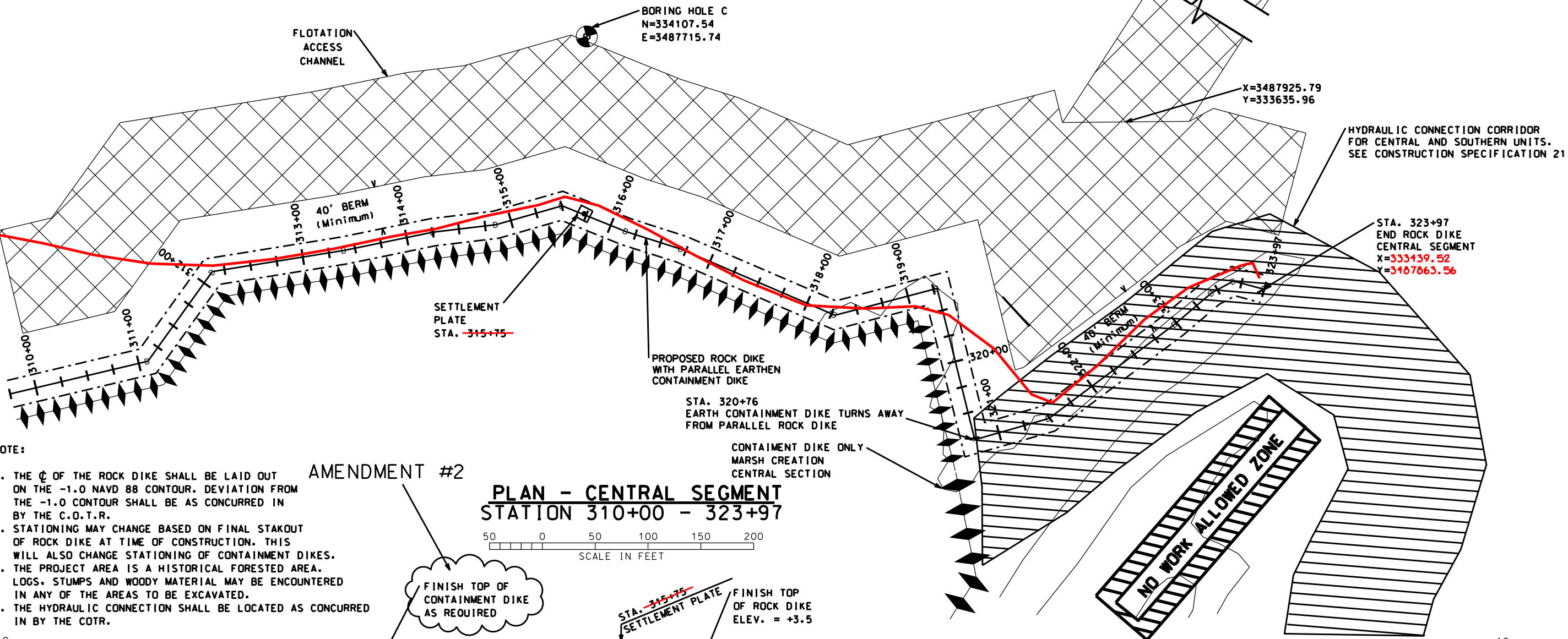
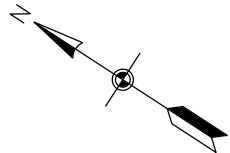
Drawing Name  
LA346012A2.dgn



NOTE:

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 301+59 - 320+76 CENTRAL SECTION)

LAKE BOUDREAUX



NOTE:

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.
4. THE HYDRAULIC CONNECTION SHALL BE LOCATED AS CONCURRED IN BY THE COTR.

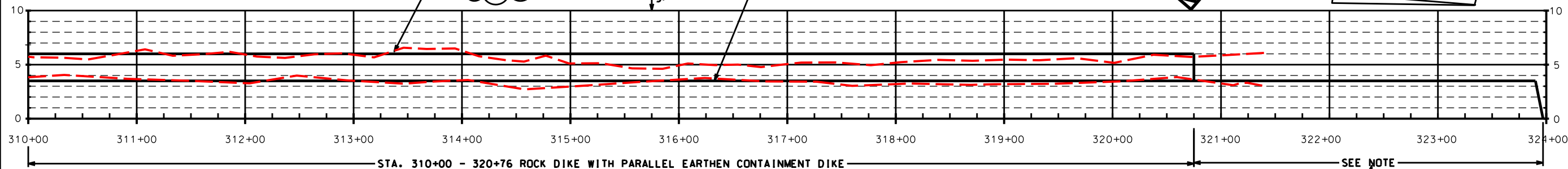
AMENDMENT #2

FINISH TOP OF CONTAINMENT DIKE AS REQUIRED

PLAN - CENTRAL SEGMENT  
STATION 310+00 - 323+97



FINISH TOP OF ROCK DIKE ELEV. = +3.5



PROFILE - CENTRAL SEGMENT  
STATION 310+00 - 323+97

STA. 320+76 - 323+97 ROCK DIKE ONLY

"AS-BUILT"

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

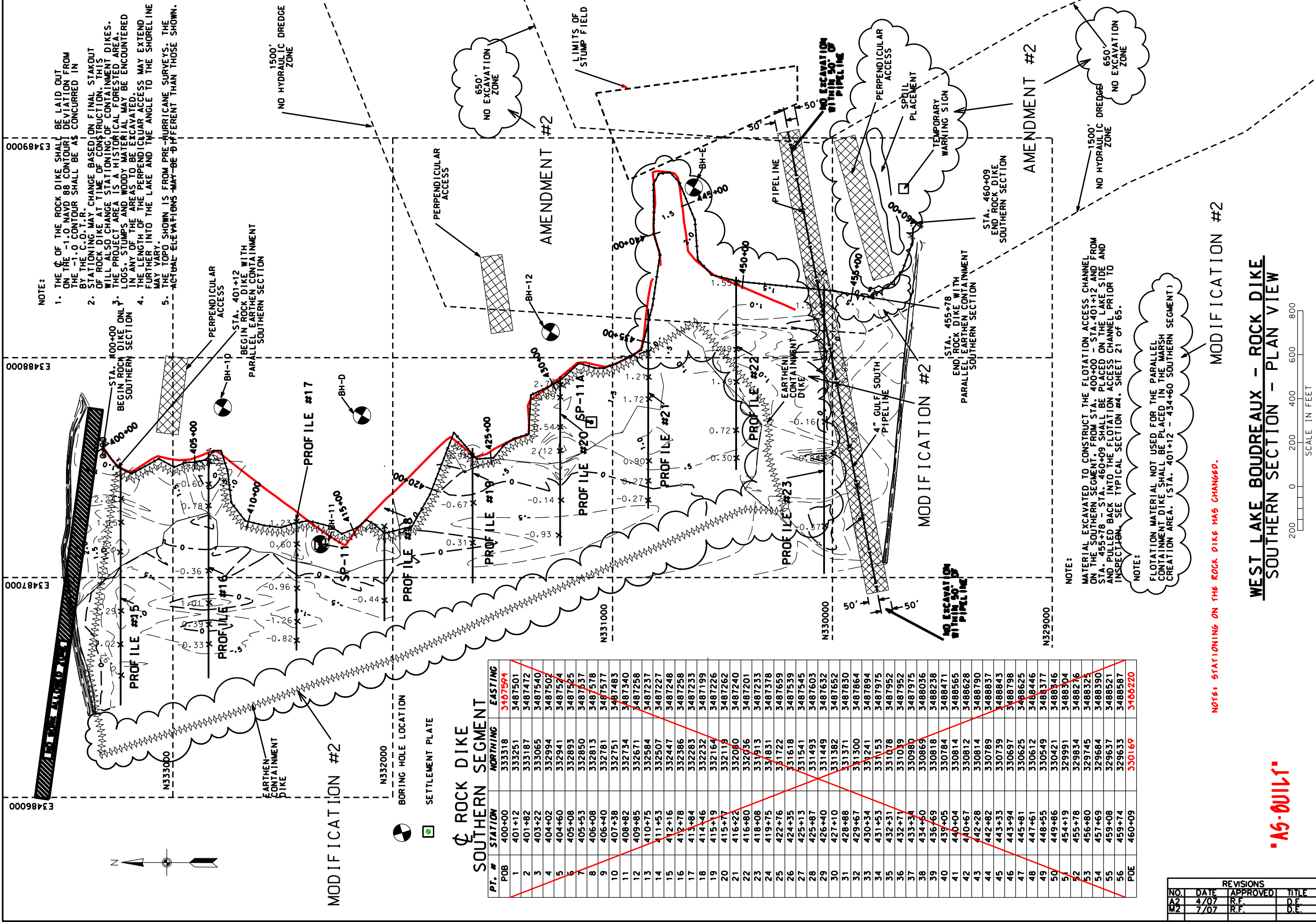
REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PLAN & PROFILE - ROCK DIKE - CENTRAL SEC.  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346013A2.dgn
Sheet	13A2 of 65



NOTE:  
 1. THE CENTERLINE OF THE ROCK DIKE SHALL BE LAID OUT ON THE 1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.  
 2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.  
 3. THE LENGTH OF THE PERPENDICULAR ACCESS MAY VARY. FURTHER INTO THE LAKE AND THE ANGLE TO THE SHORELINE MAY VARY.  
 4. THE TOPO SHOWN IS FROM PRE-HURRICANE SURVEYS. THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

NOTE:  
 MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL ON THE SOUTHERN SEGMENT, FROM STA. 400+00 - STA. 401+12 AND FROM STA. 455+78 - STA. 460+09 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO INSPECTION. SEE TYPICAL SECTION #4, SHEET 21 OF 65.

NOTE:  
 FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 401+12 - 434+60 SOUTHERN SEGMENT)

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

**ROCK DIKE SOUTHERN SEGMENT**

PT. #	STATION	NORTHING	EASTING
PDB	400+00	333318	<del>3487594</del>
1	401+12	333251	3487501
2	401+82	333187	3487472
3	403+22	333065	3487540
4	404+02	332994	3487507
5	404+60	332941	3487544
6	405+08	332893	3487525
7	405+53	332850	3487537
8	406+08	332813	3487578
9	406+40	332781	3487577
10	407+38	332751	3487483
11	408+82	332734	3487340
12	409+85	332671	3487258
13	410+75	332584	3487237
14	411+53	332507	3487227
15	412+16	332447	3487248
16	412+78	332386	3487258
17	413+84	332283	3487233
18	414+46	332232	3487199
19	415+19	332164	3487226
20	415+77	332119	3487262
21	416+22	332060	3487240
22	416+80	332036	3487201
23	418+08	331913	3487233
24	419+75	331831	3487378
25	422+76	331722	3487659
26	424+35	331618	3487539
27	425+13	331541	3487545
28	425+87	331493	3487603
29	426+40	331449	3487632
30	427+10	331382	3487652
31	428+88	331371	3487830
32	429+67	331300	3487864
33	430+34	331241	3487894
34	431+53	331153	3487975
35	432+31	331078	3487952
36	432+77	331019	3487952
37	433+34	330980	3487975
38	434+60	330869	3488036
39	436+69	330818	3488238
40	439+05	330784	3488471
41	440+04	330814	3488565
42	440+67	330812	3488628
43	442+28	330814	3488790
44	442+82	330789	3488837
45	443+33	330739	3488843
46	443+94	330697	3488798
47	445+81	330625	3488625
48	447+61	330612	3488446
49	448+55	330549	3488377
50	449+86	330421	3488446
51	454+19	329991	3488304
52	455+78	329834	3488226
53	456+80	329745	3488325
54	457+69	329684	3488390
55	459+08	329637	3488521
56	459+74	329633	3488587
PDE	460+09	<del>330169</del>	<del>3488220</del>

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.
M2	7/07	R.F.	D.E.

**AS-BUILT**

MODIFICATION #2

**WEST LAKE BOUDREAUX - ROCK DIKE SOUTHERN SECTION - PLAN VIEW**

SCALE IN FEET  
 0 200 400 600 800

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLION	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PLAN VIEW-SOUTHERN ROCK DIKE  
 TE-46 - WEST LAKE BOUDREAUX  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346014M2.dgn
Sheet	14M2 of 65

LAKE BOUDREAUX

BORING HOLE 10  
N=332773.09  
E=3487773.60

NOTE:

MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL ON THE SOUTHERN SEGMENT, FROM STA. 400+00 - STA.401+12 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO INSPECTION. SEE TYPICAL SECTION #4, SHEET 21 OF 65.

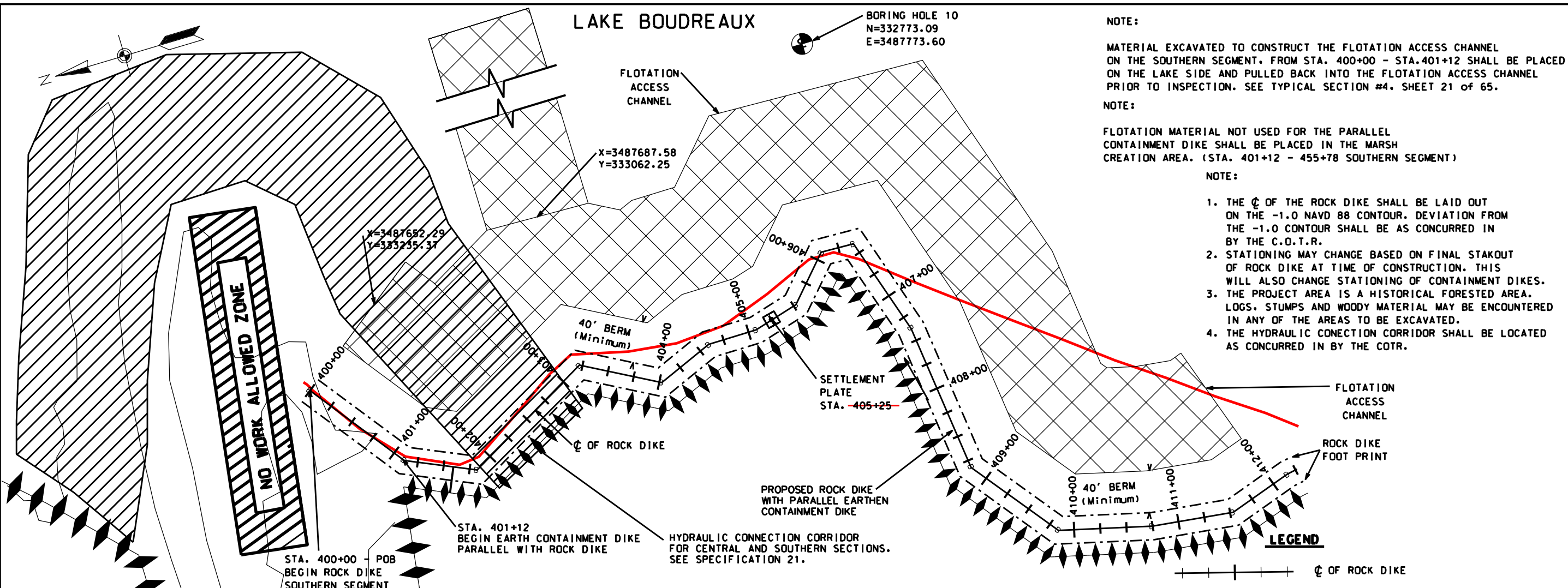
NOTE:

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 401+12 - 455+78 SOUTHERN SEGMENT)

NOTE:

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.
4. THE HYDRAULIC CONNECTION CORRIDOR SHALL BE LOCATED AS CONCURRED IN BY THE COTR.

Date	01/05
Designed	R. FAULKNER
Drawn	A.J. GREMILLION
Checked	B.A. STICKER
Approved	E.J. GIERING III



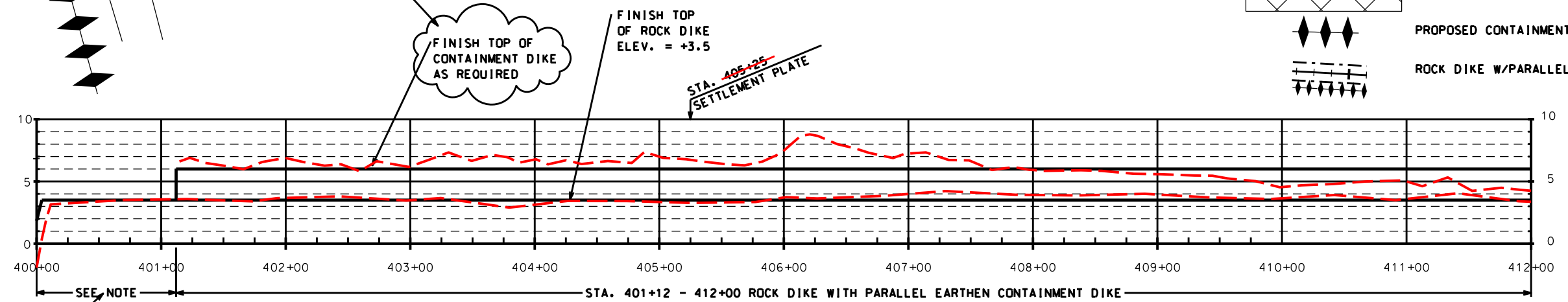
PLAN - SOUTHERN SECTION  
STATION 400+00 - 412+00



**LEGEND**

	$\phi$ OF ROCK DIKE
	BORING HOLE LOCATION
	TOE OF DIKE
	SETTLEMENT PLATE
	FLOTATION ACCESS CHANNEL
	PROPOSED CONTAINMENT DIKE ONLY
	ROCK DIKE W/PARALLEL CONTAINMENT DIKE

AMENDMENT #2



PROFILE - SOUTHERN SECTION  
STATION 400+00 - 412+00

"AS-BUILT"

STA. 400+00 - 401+12  
ROCK DIKE ONLY

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.

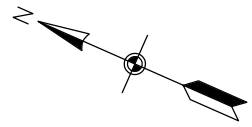
PLAN & PROFILE-ROCK DIKE - SOUTHERN SEC.  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name  
LA-346

Drawing Name  
LA346015A2.dgn

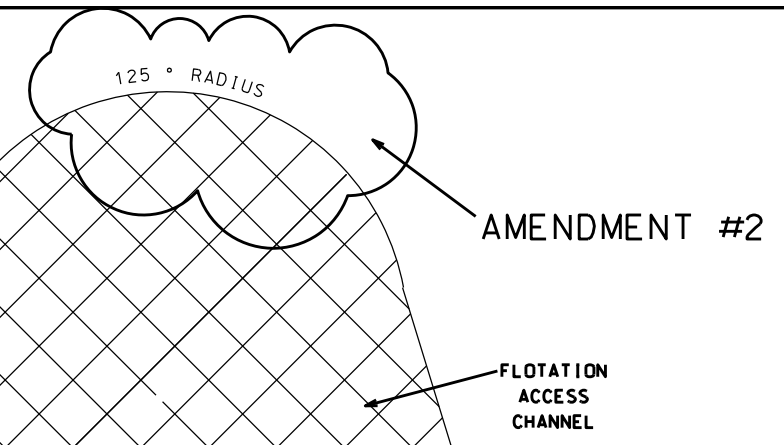




NOTE:  
 FLOTATION MATERIAL NOT USED FOR THE PARALLEL  
 CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH  
 CREATION AREA. (STA. 401+12 - 455+78 SOUTHERN SEGMENT)

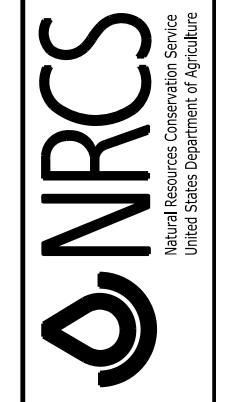
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 E=3487737.46

LAKE BOUDREAU



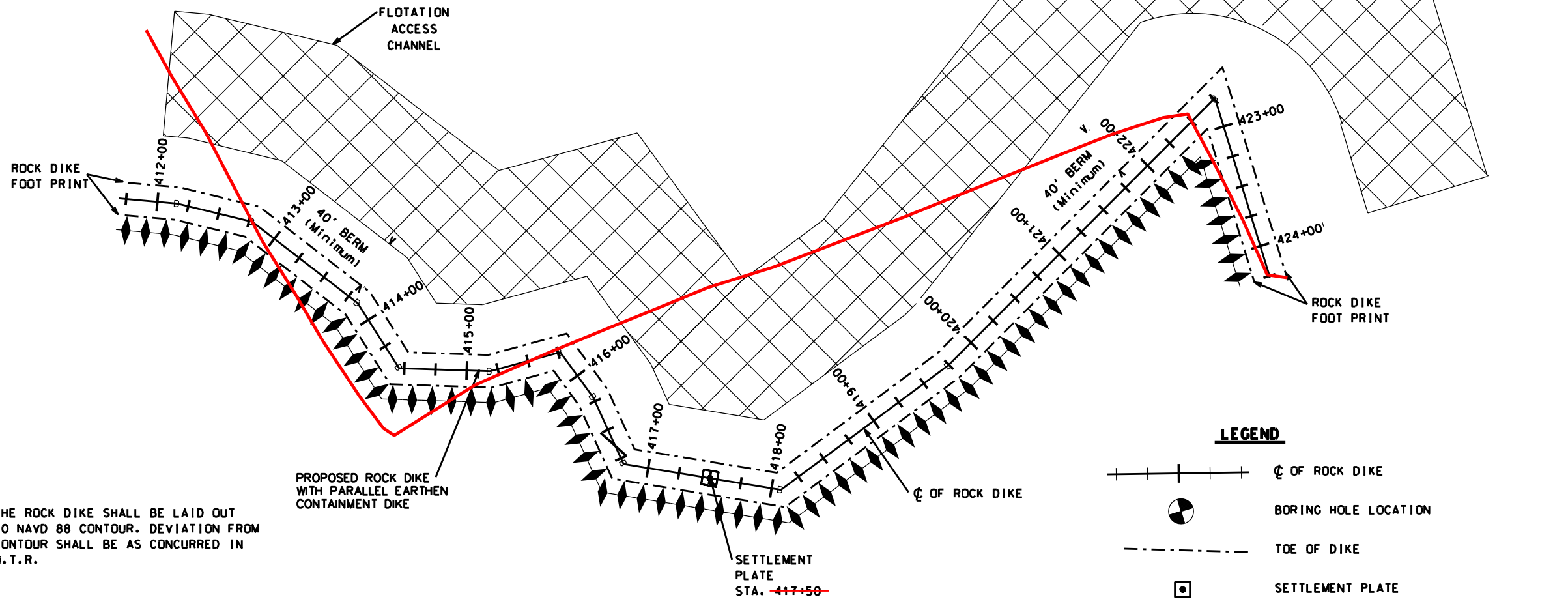
Date	01/05
Designed	R. FAULKNER
Drawn	A.J. GREMILLON
Checked	B.A. STICKER
Approved	E.J. GIERING III

PLAN & PROFILE - ROCK DIKE - SOUTHERN SEC.  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



File Name  
 LA-346

Drawing Name  
 LA346016A2.dgn

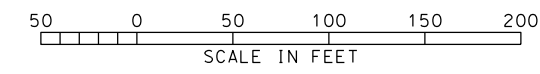


**LEGEND**

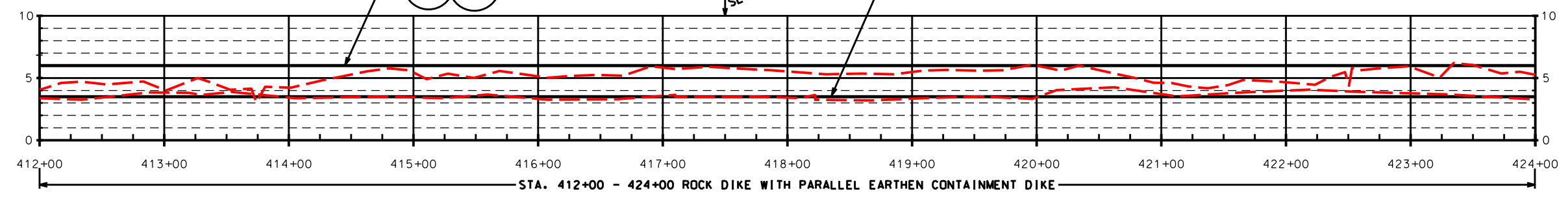
	☉ OF ROCK DIKE
	BORING HOLE LOCATION
	TOE OF DIKE
	SETTLEMENT PLATE
	FLOTATION ACCESS CHANNEL
	PROPOSED CONTAINMENT DIKE ONLY
	ROCK DIKE W/PARALLEL CONTAINMENT DIKE

NOTE:  
 THE ☉ OF THE ROCK DIKE SHALL BE LAID OUT  
 ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM  
 THE -1.0 CONTOUR SHALL BE AS CONCURRED IN  
 BY THE C.O.T.R.

PLAN - SOUTHERN SECTION  
 STATION 412+00 - 424+00



AMENDMENT #2  
 FINISH TOP OF  
 CONTAINMENT DIKE  
 AS REQUIRED



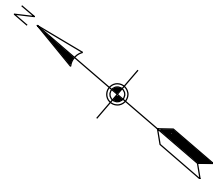
PROFILE - SOUTHERN SECTION  
 STATION 412+00 - 424+00

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.

"AS-BUILT"



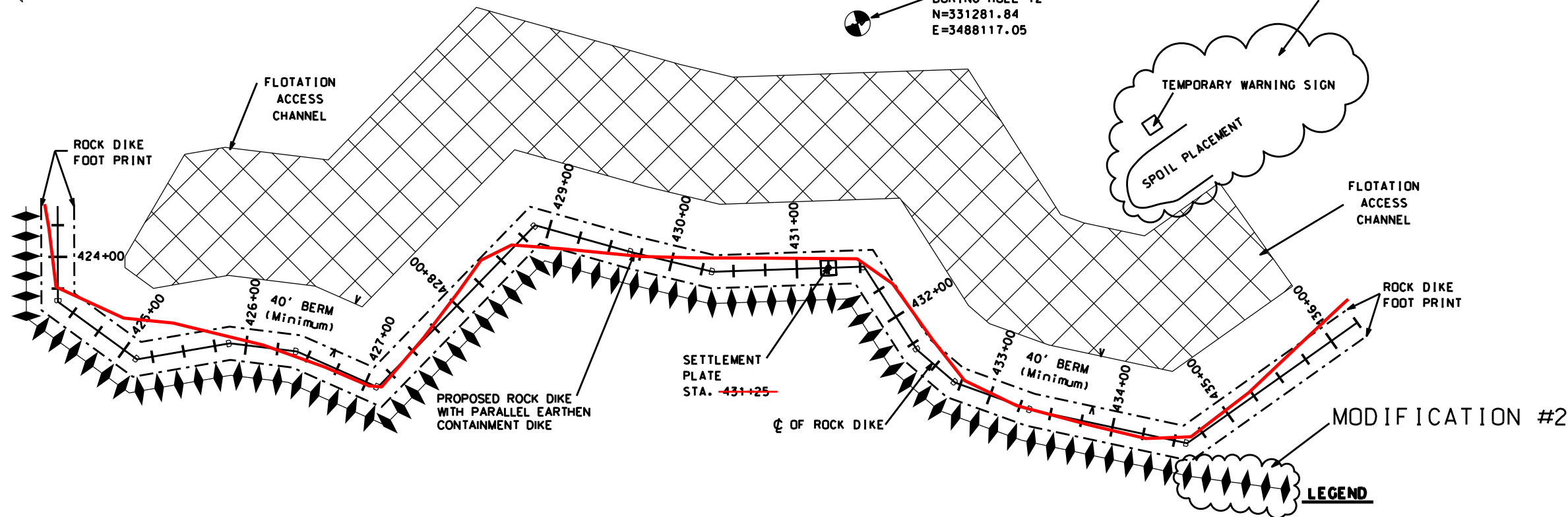
NOTE:

FLOTATION MATERIAL NOT USED FOR THE PARALLEL CONTAINMENT DIKE SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 401+12 - 434+60 SOUTHERN SEGMENT)

MODIFICATION #2

BORING HOLE 12  
N=331281.84  
E=3488117.05

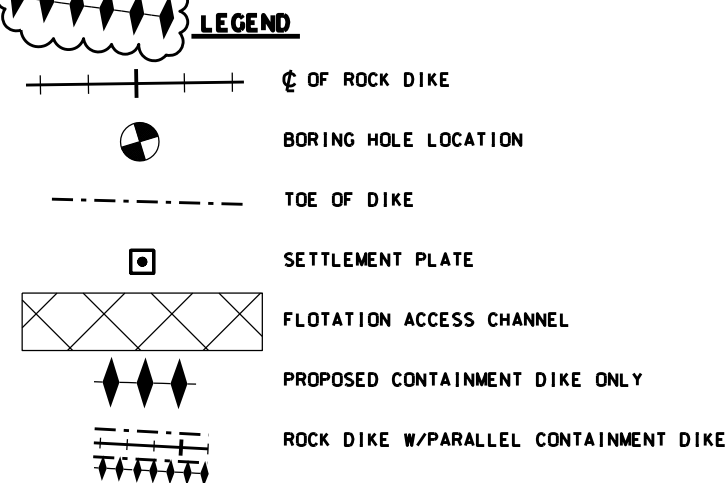
MODIFICATION #2



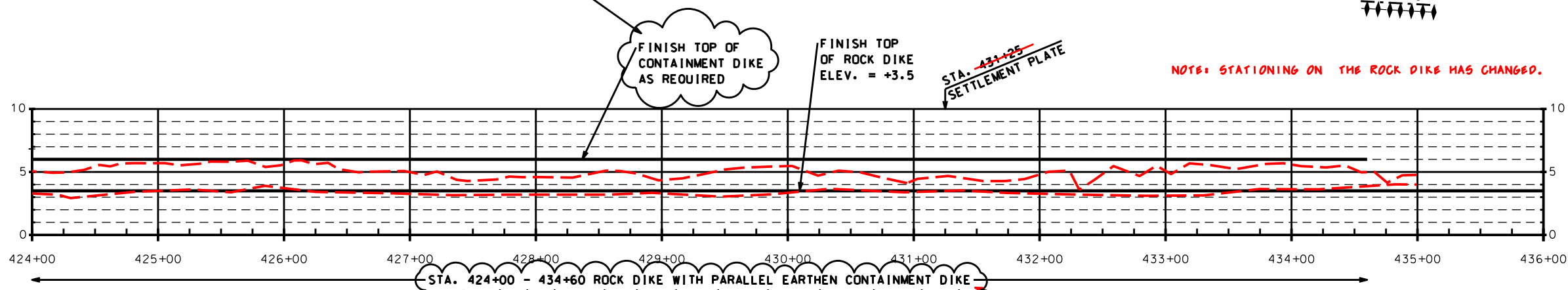
NOTE:

1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

**PLAN - SOUTHERN SECTION**  
STATION 424+00 - 436+00



AMENDMENT #2



**PROFILE - SOUTHERN SECTION**  
STATION 424+00 - 436+00

MODIFICATION #2

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
ALL VERTICAL COORDINATES - NAVD88

"AS-BUILT"

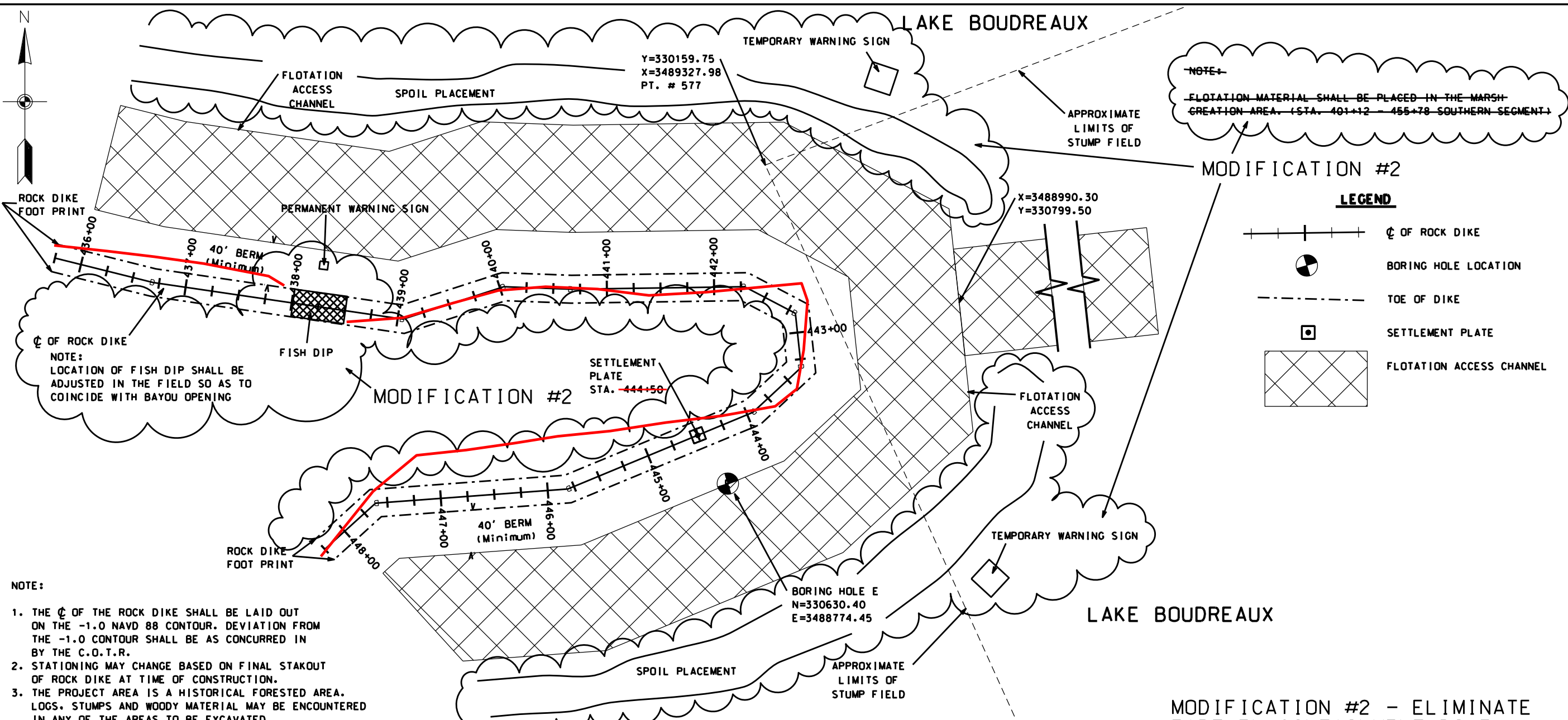
REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M2	07/07	R.F.	D.E.

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PLAN & PROFILE-ROCK DIKE - SOUTHERN SEG.  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346017M2.dgn
Sheet	17M2 of 65



**NOTE:**  
 FLOTATION MATERIAL SHALL BE PLACED IN THE MARSH CREATION AREA. (STA. 401+12 - 455+78 SOUTHERN SEGMENT)

**LEGEND**

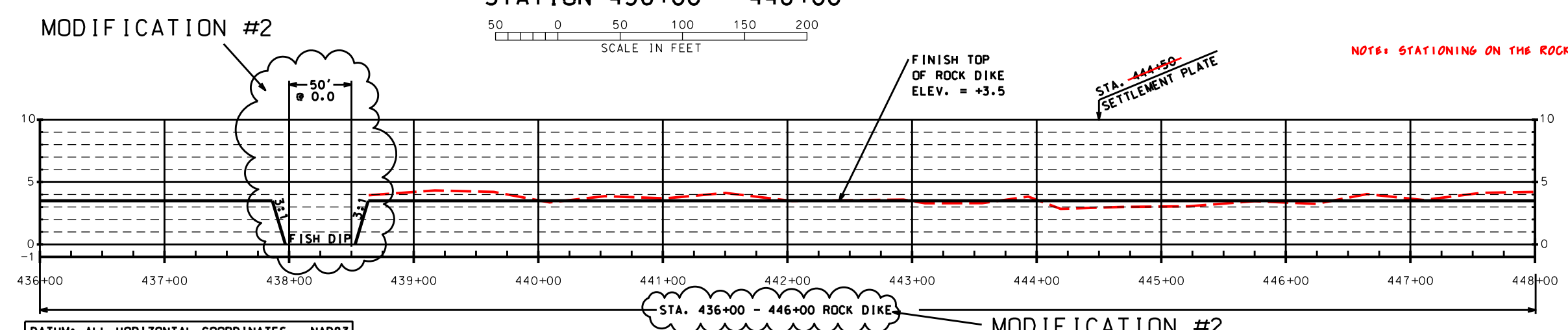
	☉ OF ROCK DIKE
	BORING HOLE LOCATION
	TOE OF DIKE
	SETTLEMENT PLATE
	FLOTATION ACCESS CHANNEL

- NOTE:**
1. THE ☉ OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
  2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION.
  3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

**PLAN - SOUTHERN SECTION**  
 STATION 436+00 - 448+00



**MODIFICATION #2 - ELIMINATE EARTHEN CONTAINMENT DIKE THIS SHEET**



**PROFILE - SOUTHERN SECTION**  
 STATION 436+00 - 448+00

DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88

**REVISIONS**

NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M2	07/07	R.F.	D.E.

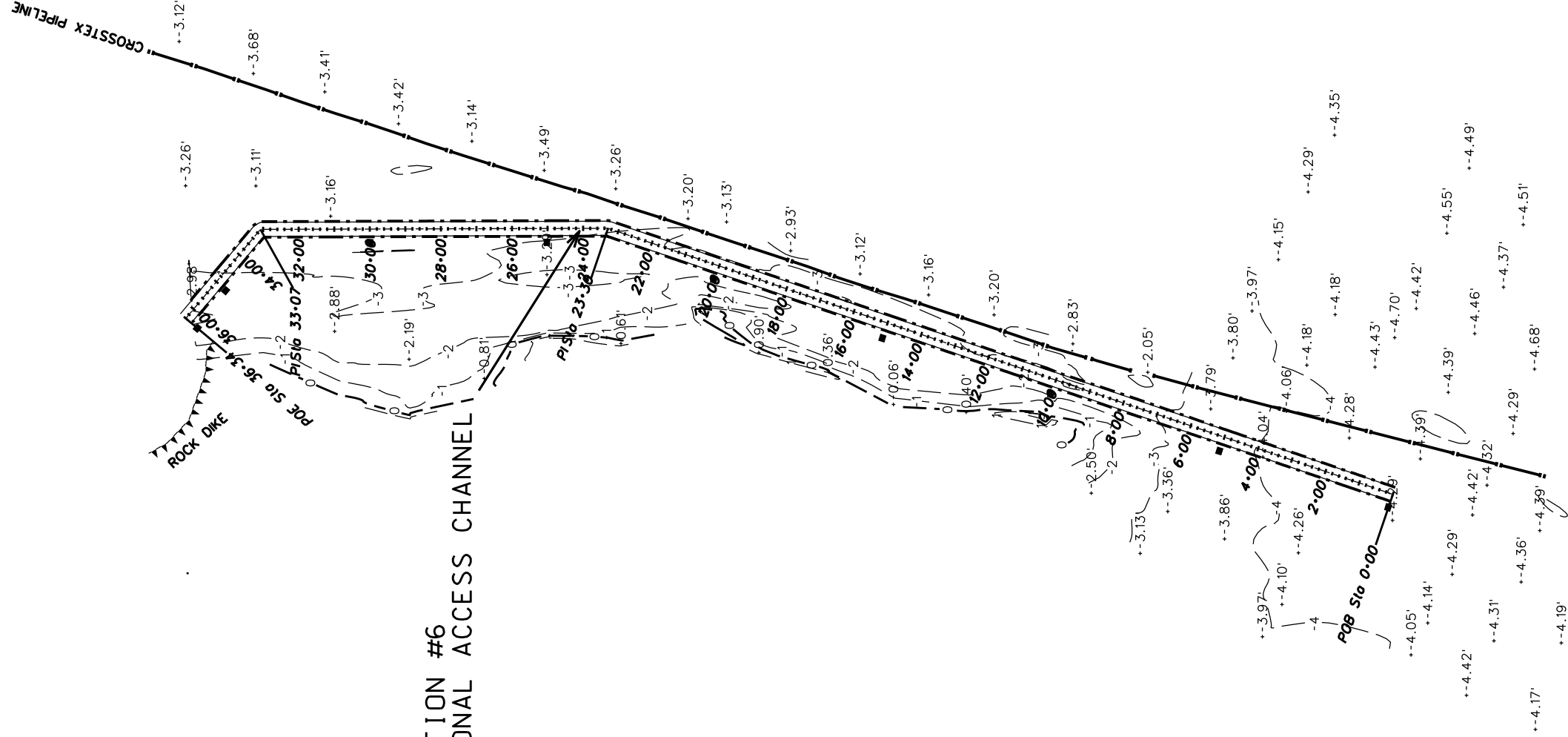
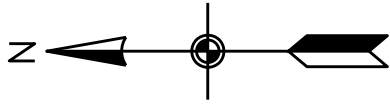
**PLAN & PROFILE - ROCK DIKE - SOUTHERN SEC.**  
**TE-46 - WEST LAKE BOUDREAU**  
**CONSTRUCTION UNIT NO. 1**  
**TERREBONNE PARISH, LOUISIANA**

**NRCS**  
 Natural Resources Conservation Service  
 United States Department of Agriculture

Date: 01/05  
 Designed: R. FAULKNER  
 Drawn: A.J. GREMILLION  
 Checked: B.A. STICKER  
 Approved: E.J. GIERING III

File Name: LA-346  
 Drawing Name: LA346018M2.dgn  
 Sheet 18M2 of 65





**MODIFICATION #6  
ACCESS CHANNEL**

ACCESS CHANNEL COORDINATES		
STA.	NORTHING	EASTING
0+00	326301.36	3488181.43
23+30	328508.09	3488928.94
33+07	329485.64	3488925.89
36+34	329695.45	3488675.81

**NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.**

**A5-0111**

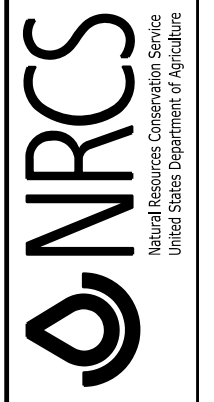
**LEGEND**

- TEMPORARY WARNING SIGN
- - - PROPOSED ACCESS CHANNEL



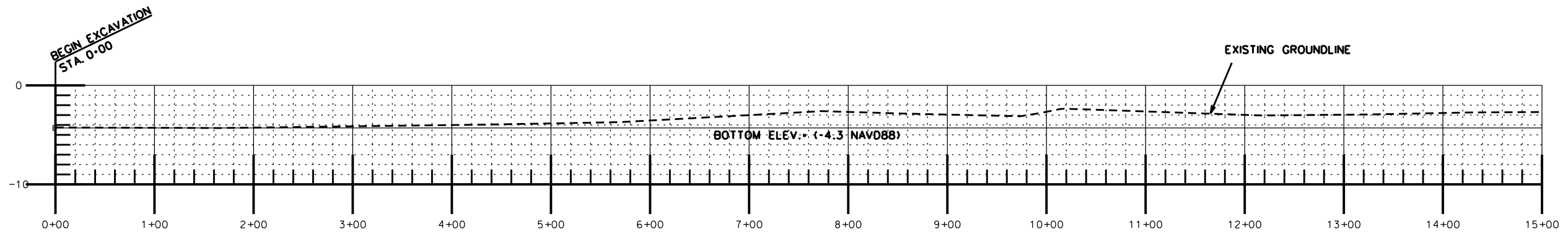
DESIGNED	R. FAULKNER	DATE	07/2008
DRAWN	D. WILMORE	CHECKED	07/2008
APPROVED	E.J. GIERING III		

ACCESS CHANNEL - SOUTHERN SECTION  
 MODIFICATION #6 - PLAN MAP  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA

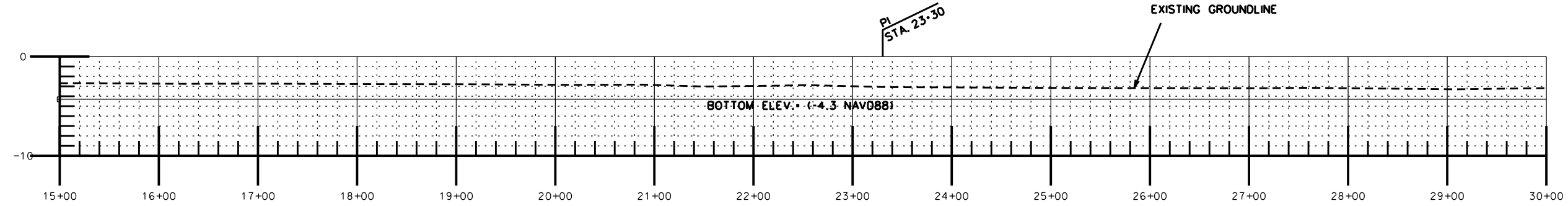


FILE NAME	LA346
DRAWING NAME	LA346019AM6.DGN
SHEET	19AM6 OF 65

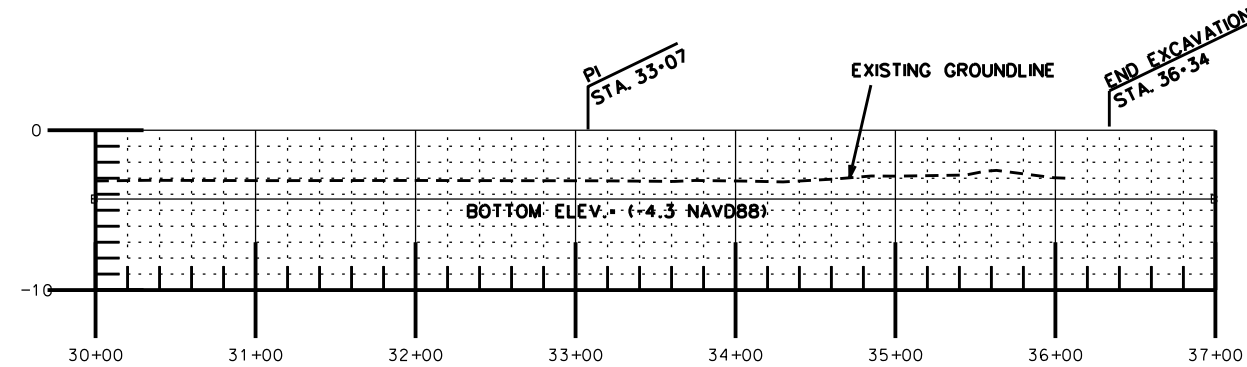
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NO.	DATE	APPROVED	TITLE
M6	07/08	R.F.	D.F.



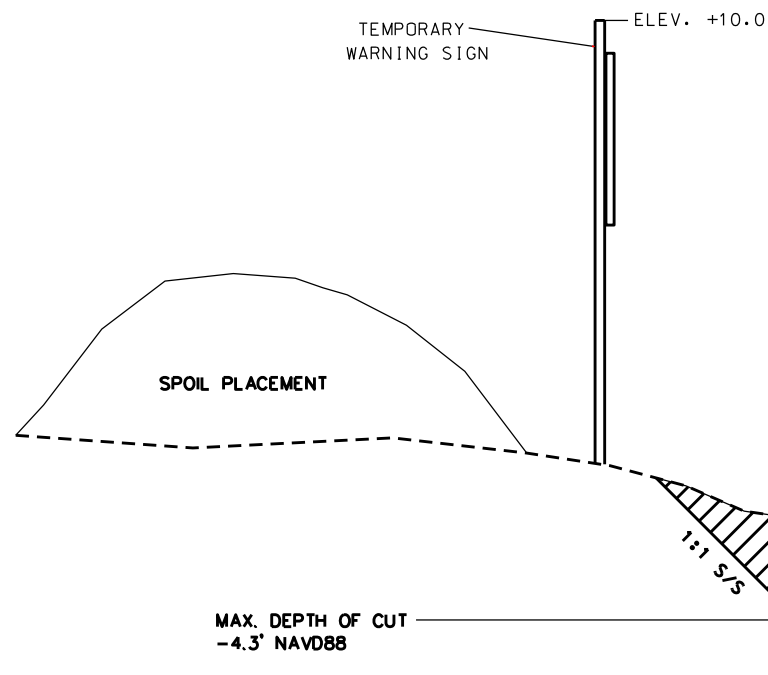
PROFILES- ACCESS DREDGE CHANNEL  
STA. 0+00 - STA. 15+00



PROFILES- ACCESS DREDGE CHANNEL  
STA. 15+00 - STA. 30+00



PROFILES- ACCESS DREDGE CHANNEL  
STA. 30+00 - STA. 36+34



TYPICAL SECTION  
ACCESS CHANNEL

MODIFICATION #6  
ADDITIONAL ACCESS CHANNEL

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE
M6	07/08	R.F.	D.E.

DESIGNED	R. FAULKNER	DATE	07/2008
DRAWN	D. WILMORE	CHECKED	07/2008
APPROVED	E.J. GIERING III		

ACCESS DREDGE - SOUTHERN SECTION  
MODIFICATION #6 - PROFILE & TYPICAL SECTION  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

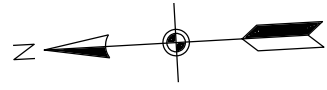


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LA346

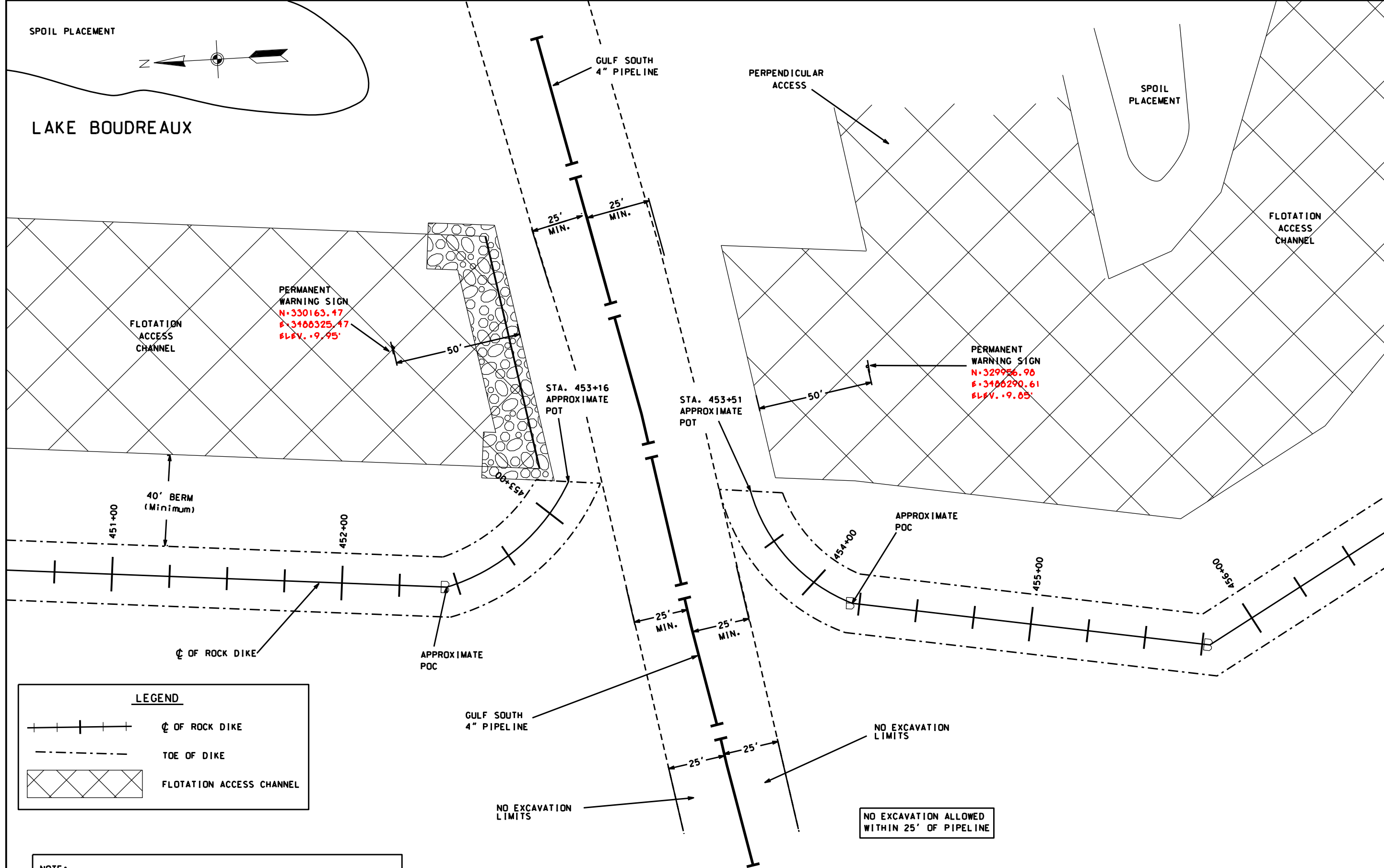
DRAWING NAME  
LA346019BM6.DGN

SHEET 198M6 OF 65

SPOIL PLACEMENT



LAKE BOUDREAU



**LEGEND**

- $\phi$  OF ROCK DIKE
- TOE OF DIKE
- FLOTATION ACCESS CHANNEL

**NOTE:**  
 THE EXACT REALIGNMENT OF THE ROCK DIKE SHALL BE AS CONCURRED IN BY THE COTR. THE ROCK SHALL BE TERMINATED AS CLOSE TO THE ORIGINAL ALIGNMENT AS POSSIBLE. THE 40' BERM REQUIREMENT IS DELETED FROM STA. 452+00 TO STA. 454+50. THE CONTRACTOR SHALL MAINTAIN AS MUCH BERM AS POSSIBLE. THE ROCK DIKE SHALL BE PLACED IN A MANNER THAT A 50' GAP IS FORMED FROM TOE TO TOE OF THE ROCK DIKE SEGMENTS.

**PLAN - SOUTHERN SECTION  
 @ PIPELINE CROSSING**



NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.

**"AS-BUILT"**

**PLAN - GULF SOUTH PIPELINE CROSSING  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA**

Designed	R. FAULKNER	Date	04-08
Drawn	D. WILMORE		04-08
Checked	B.A. STICKER		
Approved	E.J. GIERING III		



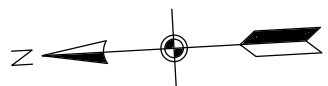
File Name  
LA-346

Drawing Name  
LA346019CM7.dgn

Sheet 19CM7 of 65

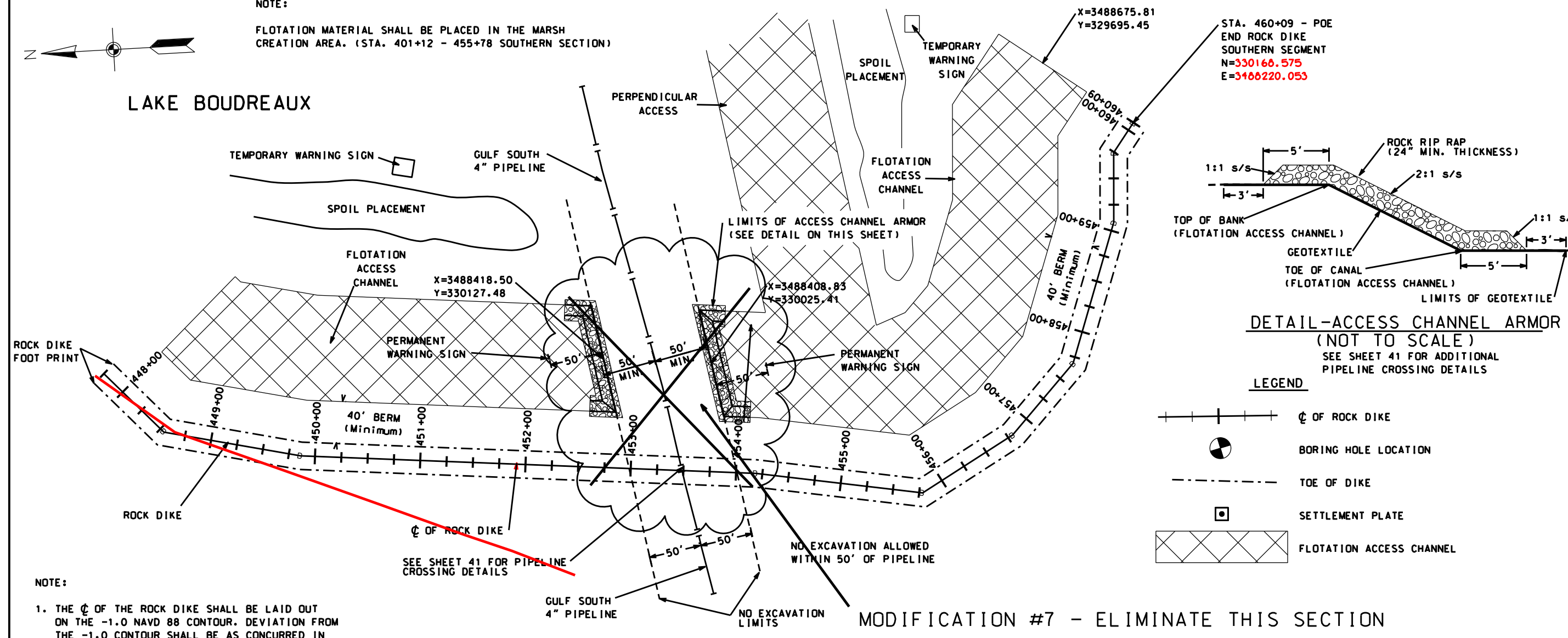
REVISIONS			
NO.	DATE	APPROVED	TITLE
M7	04/08	R.F.	D.E.



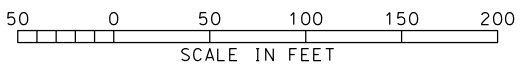


NOTE:  
 FLOTATION MATERIAL SHALL BE PLACED IN THE MARSH  
 CREATION AREA. (STA. 401+12 - 455+78 SOUTHERN SECTION)

# LAKE BOUDREAUX



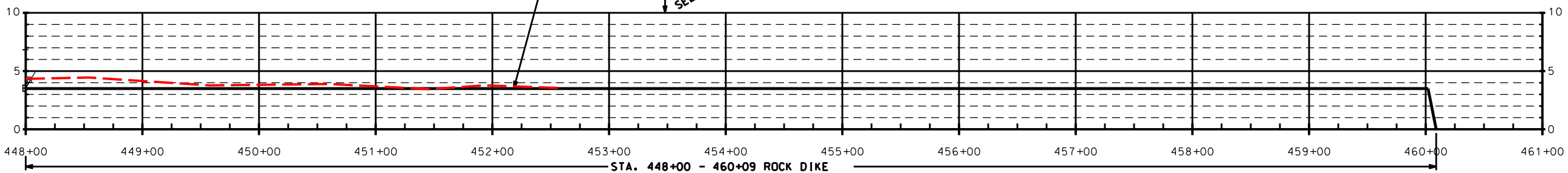
PLAN - SOUTHERN SECTION  
 STATION 448+00 - 460+09



- NOTE:
1. THE  $\phi$  OF THE ROCK DIKE SHALL BE LAID OUT ON THE -1.0 NAVD 88 CONTOUR. DEVIATION FROM THE -1.0 CONTOUR SHALL BE AS CONCURRED IN BY THE C.O.T.R.
  2. STATIONING MAY CHANGE BASED ON FINAL STAKOUT OF ROCK DIKE AT TIME OF CONSTRUCTION. THIS WILL ALSO CHANGE STATIONING OF CONTAINMENT DIKES.
  3. THE PROJECT AREA IS A HISTORICAL FORESTED AREA. LOGS, STUMPS AND WOODY MATERIAL MAY BE ENCOUNTERED IN ANY OF THE AREAS TO BE EXCAVATED.

MODIFICATION #7 - ELIMINATE THIS SECTION

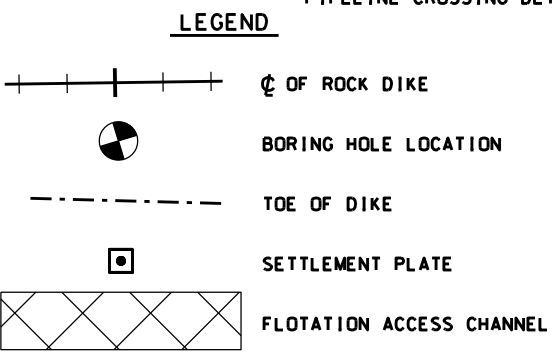
NOTE:  
 MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL ON THE CENTRAL SEGMENT, FROM STA. 455+78 - STA. 460+09 SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO FINAL INSPECTION AND ACCEPTANCE. SEE TYPICAL SECTION #4, SHEET 21 OF 65.



DATUM: ALL HORIZONTAL COORDINATES - NAD83  
 ALL VERTICAL COORDINATES - NAVD88

PROFILE - SOUTHERN SECTION  
 STATION 448+00 - 460+09

NOTE: STATIONING ON THE ROCK DIKE HAS CHANGED.



DETAIL-ACCESS CHANNEL ARMOR  
 (NOT TO SCALE)  
 SEE SHEET 41 FOR ADDITIONAL  
 PIPELINE CROSSING DETAILS

STA. 460+09 - POE  
 END ROCK DIKE  
 SOUTHERN SEGMENT  
 N=330166.575  
 E=3466220.053

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PLAN & PROFILE-ROCK DIKE - SOUTHERN SEG.  
 TE-46 - WEST LAKE BOUDREAUX  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA

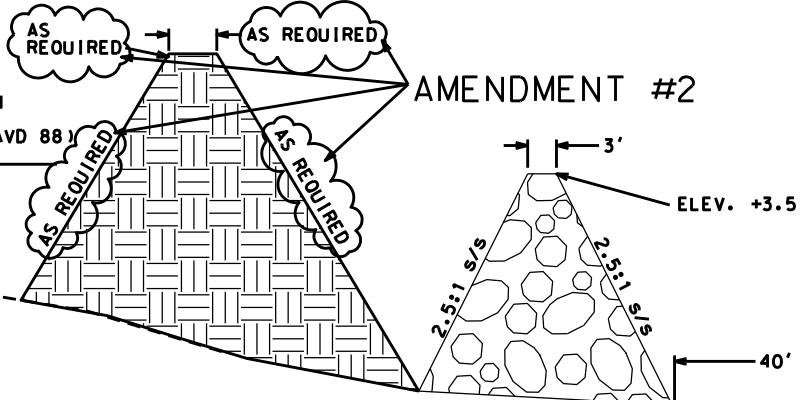


File Name  
 LA-346

Drawing Name  
 LA346019M7.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M2	07/07	R.F.	D.E.
M7	04/08	R.F.	D.E.

**MARSH SIDE**



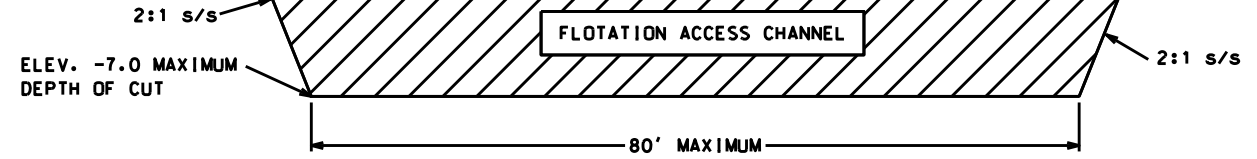
STATIONING - ROCK DIKE WITH PARALLEL EARTHEN CONTAINMENT DIKE (TYPICAL SECTION 1)

SEGMENT	REACH	NOTES
NORTHERN	122+21 - 153+69	ROCK DIKE WITH PARALLEL CONTAINMENT (TYP. SEC. 1)

**LAKE SIDE**

NOTE: MATERIAL EXCAVATED TO CREATE THE FLOTATION ACCESS CHANNEL SHALL BE USED TO CONSTRUCT THE EARTHEN CONTAINMENT DIKE. EXCESS MATERIAL NOT USED TO CONSTRUCT THE EARTHEN CONTAINMENT DIKE SHALL BE PLACED WITHIN THE MARSH CREATION AREA.

NOTE: THE ROCK DIKE FOR THE NORTHERN SEGMENT SHALL HAVE SIDE SLOPES OF 2.5 HORIZONTAL TO 1 VERTICAL.

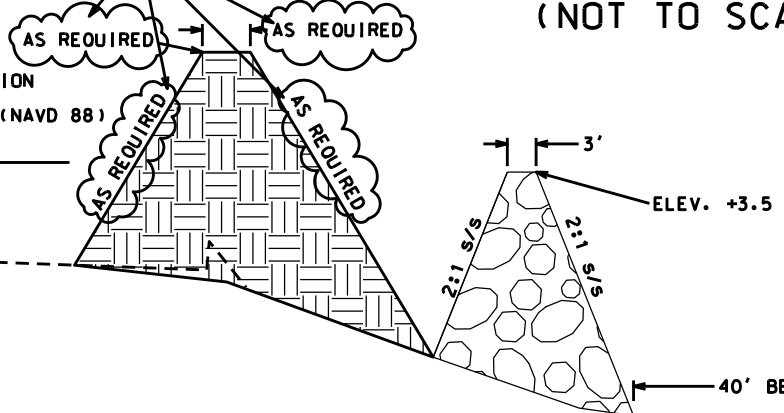


**MARSH SIDE**

AMENDMENT #2

**TYPICAL SECTION-1 (NORTHERN SEGMENT)**  
(NOT TO SCALE)

MARSH CREATION FILL HEIGHT ELEV. +3.7 (NAVD 88)



STATIONING - ROCK DIKE WITH PARALLEL EARTHEN CONTAINMENT DIKE (TYPICAL SECTION 2)

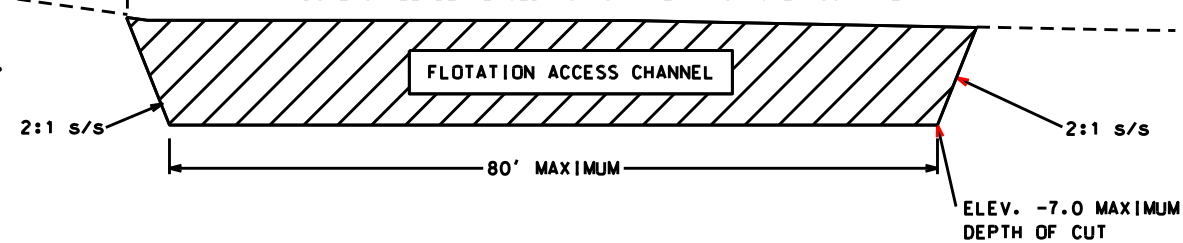
SEGMENT	REACH	NOTES
CENTRAL	301+59 - 320+76	ROCK DIKE WITH PARALLEL CONTAINMENT (TYP. SEC. 2)
SOUTHERN	401+12 - 434+60	ROCK DIKE WITH PARALLEL CONTAINMENT (TYP. SEC. 2)

**LAKE SIDE**

MODIFICATION #2

NOTE: MATERIAL EXCAVATED TO CREATE THE FLOTATION ACCESS CHANNEL SHALL BE USED TO CONSTRUCT THE EARTHEN CONTAINMENT DIKE. EXCESS MATERIAL NOT USED TO CONSTRUCT THE EARTHEN CONTAINMENT DIKE SHALL BE PLACED WITHIN THE MARSH CREATION AREA.

NOTE: THE ROCK DIKE FOR BOTH THE CENTRAL AND THE SOUTHERN SEGMENT SHALL HAVE SIDE SLOPES OF 2 HORIZONTAL TO 1 VERTICAL.



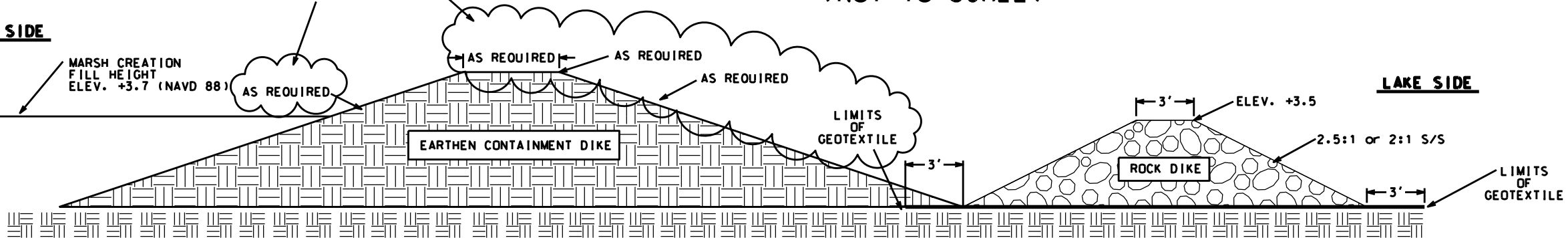
NOTE: THE CONSTRUCTED SIDE SLOPE FOR THE EARTHEN CONTAINMENT DIKE SHALL BE AS REQUIRED TO CONTAIN THE DREDGE FILL MATERIAL.

AMENDMENT #2

**TYPICAL SECTION-2 (CENTRAL & SOUTHERN SEGMENT)**  
(NOT TO SCALE)

**MARSH SIDE**

MARSH CREATION FILL HEIGHT ELEV. +3.7 (NAVD 88)



**LAKE SIDE**

**"AS-BUILT"**

**DETAILS-ROCK DIKE WITH PARALLEL EARTHEN CONTAINMENT DIKE**  
(NOT TO SCALE)

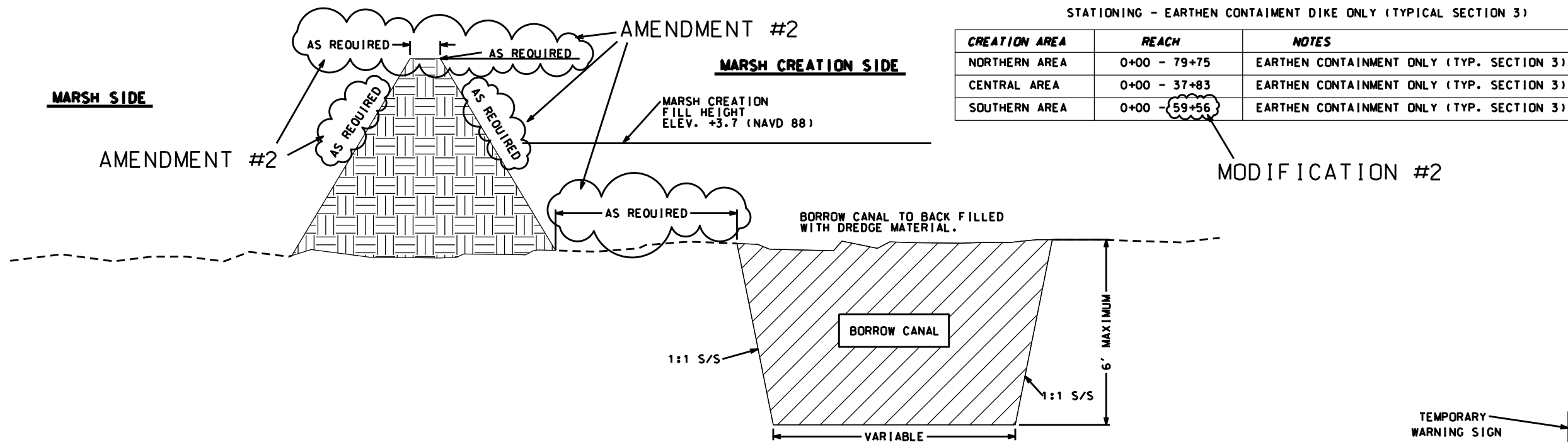
REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M2	07/07	R.F.	D.E.

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

TYPICAL SECTIONS  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



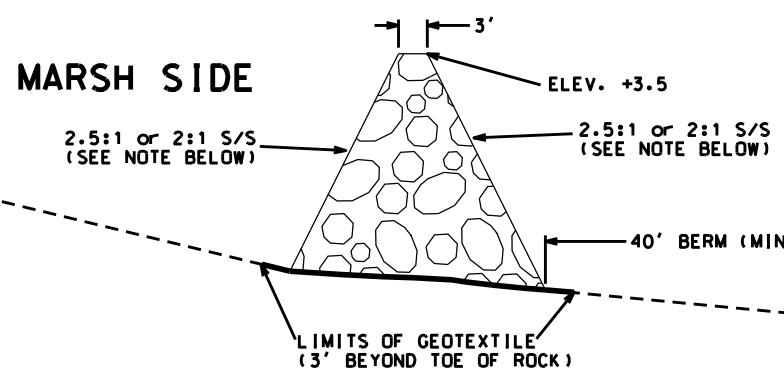
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Drawing Name	LA346020M2.dgn
Sheet	20M2 of 65



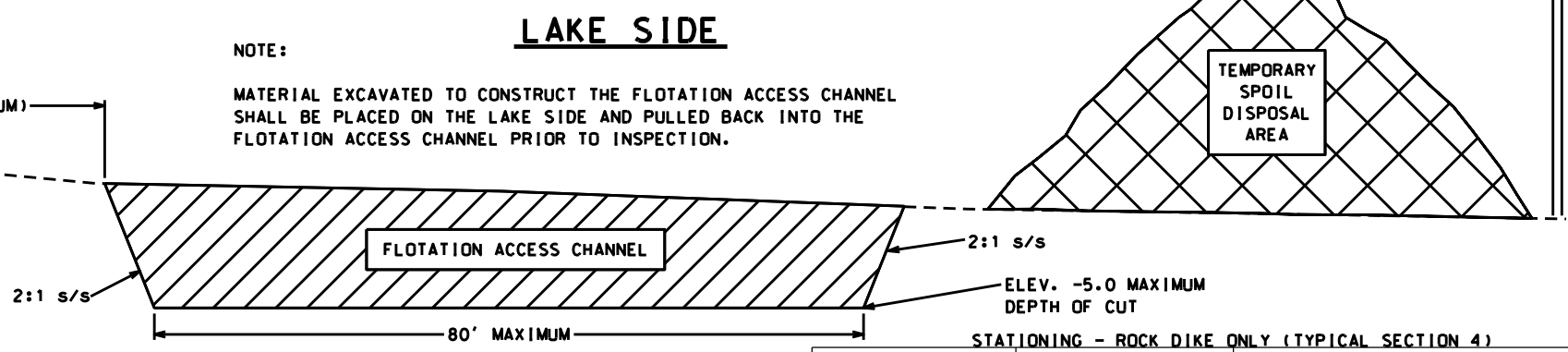
**TYPICAL SECTION-3 (NORTHERN, CENTRAL & SOUTHERN AREAS) EARTHEN CONTAINMENT ONLY (NOT TO SCALE)**

STATIONING - EARTHEN CONTAINMENT DIKE ONLY (TYPICAL SECTION 3)

CREATION AREA	REACH	NOTES
NORTHERN AREA	0+00 - 79+75	EARTHEN CONTAINMENT ONLY (TYP. SECTION 3)
CENTRAL AREA	0+00 - 37+83	EARTHEN CONTAINMENT ONLY (TYP. SECTION 3)
SOUTHERN AREA	0+00 - 59+56	EARTHEN CONTAINMENT ONLY (TYP. SECTION 3)



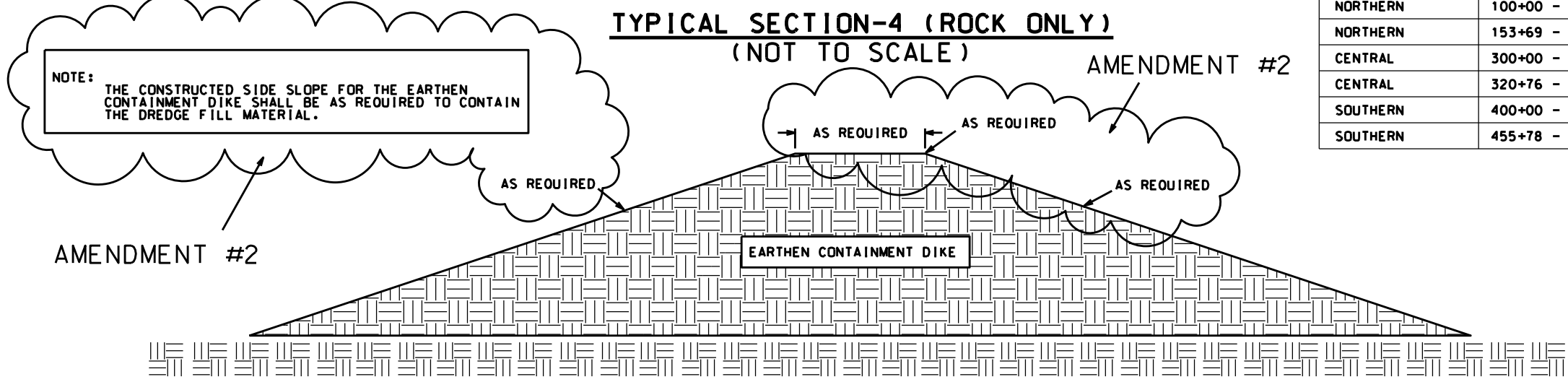
NOTE: THE ROCK DIKE FOR THE NORTHERN SEGMENT SHALL HAVE SIDE SLOPES OF 2.5 HORIZONTAL TO 1 VERTICAL. THE ROCK DIKE FOR THE CENTRAL AND THE SOUTHERN SEGMENT SHALL HAVE SIDE SLOPES OF 2 HORIZONTAL TO 1 VERTICAL.



NOTE: MATERIAL EXCAVATED TO CONSTRUCT THE FLOTATION ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE FLOTATION ACCESS CHANNEL PRIOR TO INSPECTION.

STATIONING - ROCK DIKE ONLY (TYPICAL SECTION 4)

SEGMENT	REACH	NOTES
NORTHERN	100+00 - 122+21	ROCK DIKE ONLY (TYPICAL SECTION 4)
NORTHERN	153+69 - 154+60	ROCK DIKE ONLY (TYPICAL SECTION 4)
CENTRAL	300+00 - 301+59	ROCK DIKE ONLY (TYPICAL SECTION 4)
CENTRAL	320+76 - 323+97	ROCK DIKE ONLY (TYPICAL SECTION 4)
SOUTHERN	400+00 - 401+12	ROCK DIKE ONLY (TYPICAL SECTION 4)
SOUTHERN	455+78 - 460+09	ROCK DIKE ONLY (TYPICAL SECTION 4)



NOTE: THE CONSTRUCTED SIDE SLOPE FOR THE EARTHEN CONTAINMENT DIKE SHALL BE AS REQUIRED TO CONTAIN THE DREDGE FILL MATERIAL.

**TYPICAL SECTION-4 (ROCK ONLY) (NOT TO SCALE)**

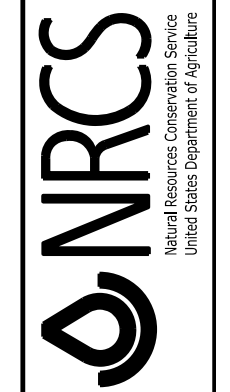
**DETAILS-EARTHEN CONTAINMENT DIKE ONLY (NOT TO SCALE)**

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M2	07/07	R.F.	D.E.

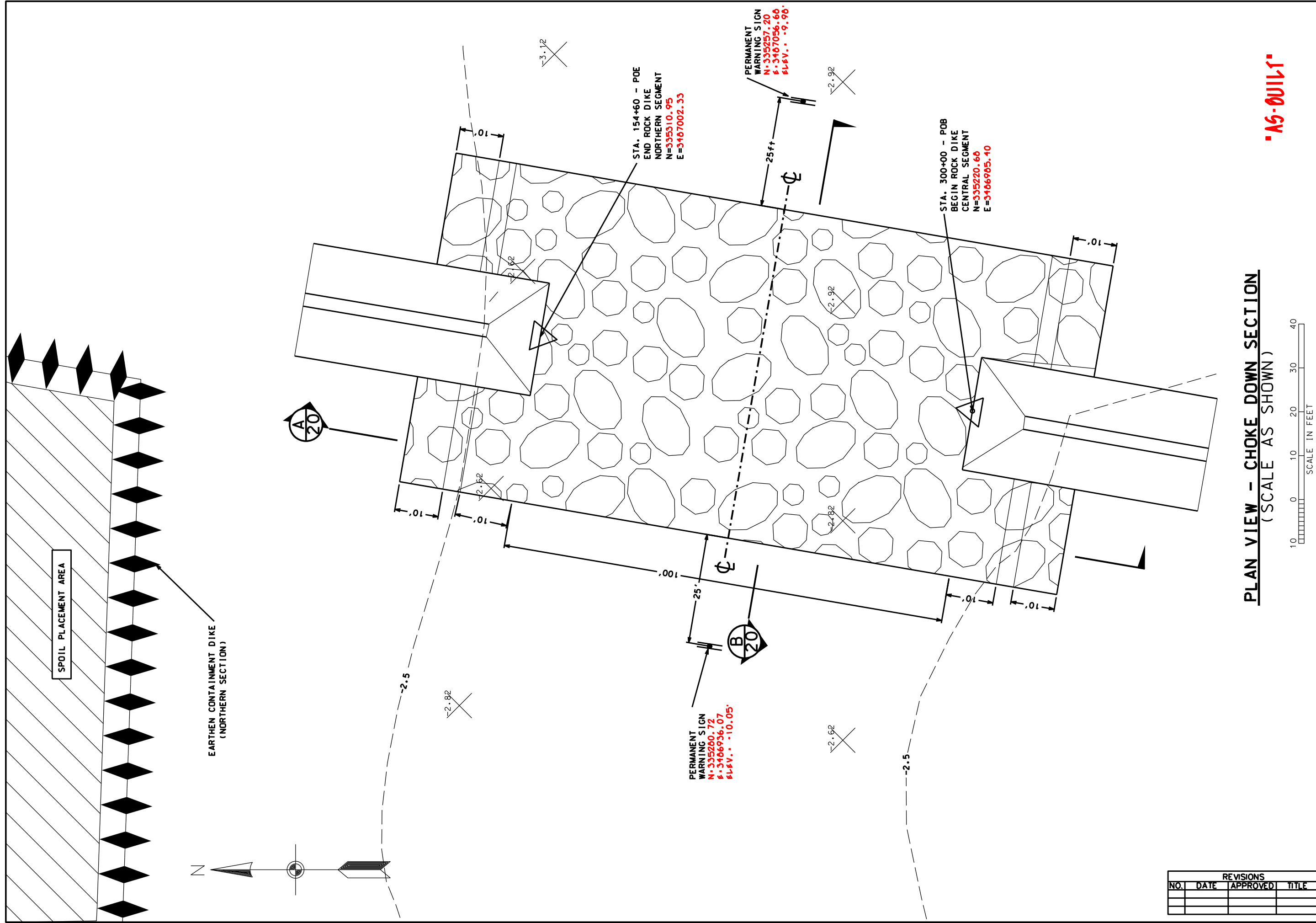
Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

TYPICAL SECTIONS  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA

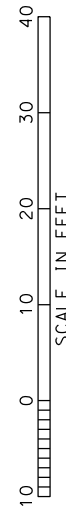


File Name	LA-346
Drawing Name	LA346021M2.dgn
Sheet	21M2 of 65





**PLAN VIEW - CHOKEDOWN SECTION**  
(SCALE AS SHOWN)



**-AS-DRAWN-**

REVISIONS			
NO.	DATE	APPROVED	TITLE

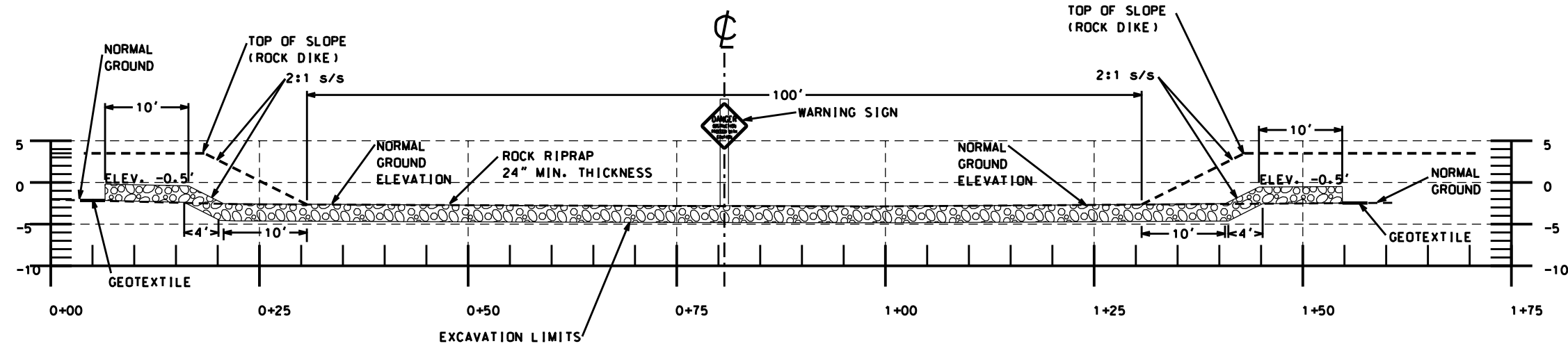
Designed	R. FAULKNER	Date	08/05
Drawn	A.J. GREMILLION		08/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		06/06

**CHOKEDOWN DETAILS**  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



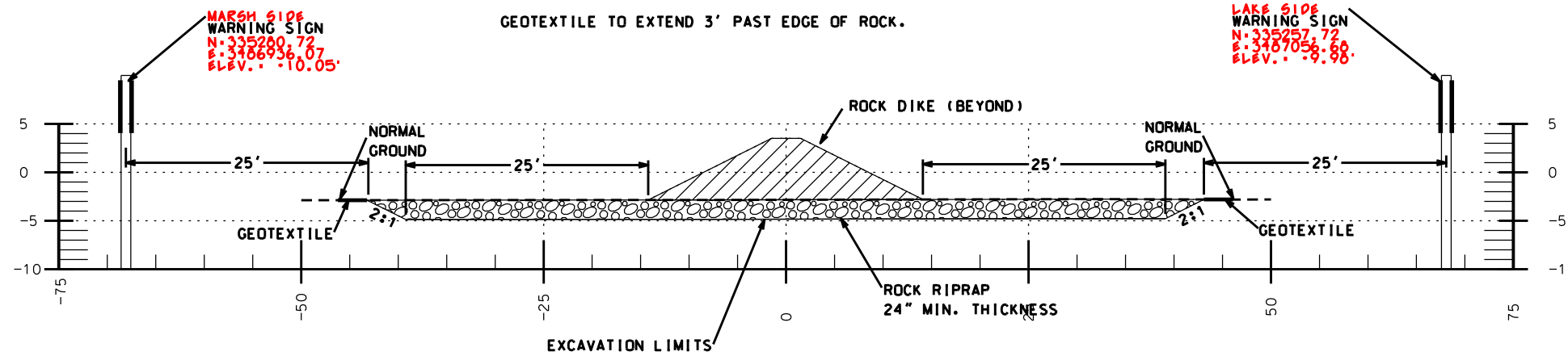
File Name	LA-346
Drawing Name	LA346022.dgn
Sheet	22 of 65

NOTE.  
 THE ELEVATION OF THE TOP OF THE ROCK  
 IN THE CHOKE DOWN SECTION SHALL BE  
 NO HIGHER THAN EXISTING WATER BOTTOM  
 GEOTEXTILE TO EXTEND 3' PAST EDGE OF ROCK.



**CHOKE DOWN SECTION A**  
 (SCALE AS SHOWN) 19

NOTE.  
 THE ELEVATION OF THE TOP OF THE ROCK  
 IN THE CHOKE DOWN SECTION SHALL BE  
 NO HIGHER THAN EXISTING WATER BOTTOM.  
 GEOTEXTILE TO EXTEND 3' PAST EDGE OF ROCK.



**CHOKE DOWN SECTION B**  
 (SCALE AS SHOWN) 19

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE

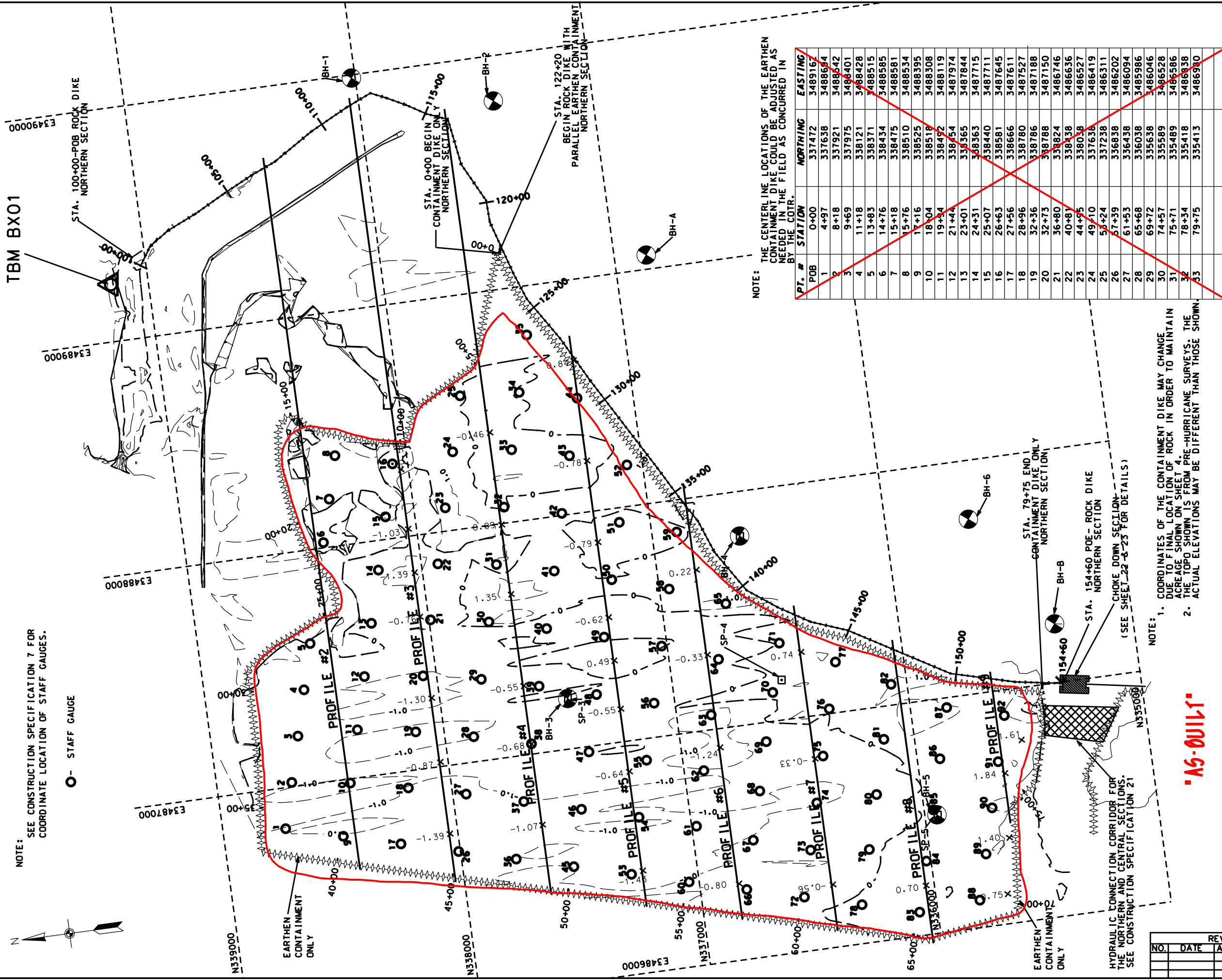
Designed	R. FAULKNER	Date	08/05
Drawn	A.J. GREMILLON		08/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

CHOKE DOWN DETAILS  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346023.dgn
Sheet	23 of 65

MARSH CREATION AREA  
NORTHERN SECTION = 127 ACRES



REVISIONS			
NO.	DATE	APPROVED	TITLE

WEST LAKE BOUDREAU - MARSH CREATION  
NORTHERN SECTION - PLAN VIEW



- NOTE:
- COORDINATES OF THE CONTAINMENT DIKE MAY CHANGE DUE TO FINAL LOCATION OF ROCK IN ORDER TO MAINTAIN ACREAGE SHOWN ON SHEET 4.
  - THE TOPO SHOWN IS FROM PRE-HURRICANE SURVEYS. THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

NOTE: THERE ARE NO CENTERLINE LOCATIONS OF THE EARTHEN CONTAINMENT DIKE PARALLEL TO STA. 111+28. THIS REACH OF THE CONTAINMENT DIKE PARALLELS THE ROCK DIKE. THE ALIGNMENT OF THE ROCK DIKE WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.

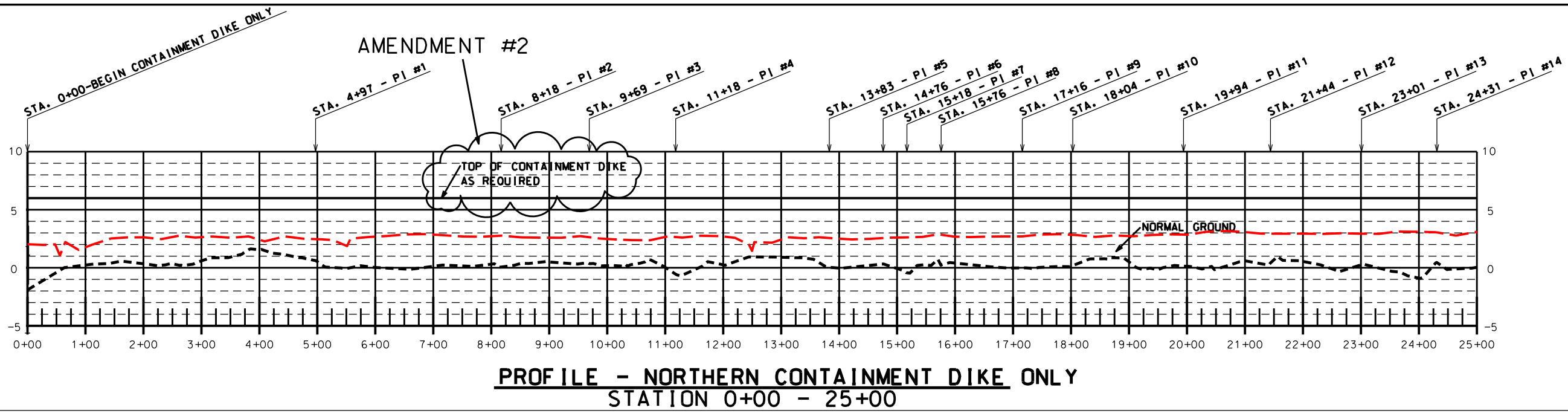
NOTE: THE CENTERLINE LOCATIONS OF THE EARTHEN CONTAINMENT DIKE COULD BE ADJUSTED AS NEEDED IN THE FIELD AS CONCURRED IN BY THE CONTR.

PT. #	STATION	NORTHING	EASTING
1	0+00	337472	348916
2	4+97	337638	348864
3	8+18	337921	348842
4	9+69	337975	348840
5	11+18	338121	3488428
6	13+83	338371	3488515
7	14+76	338434	3488585
8	15+18	338475	3488581
9	15+76	338510	3488534
10	17+16	338525	3488395
11	18+04	338518	3488308
12	19+54	338492	3488119
13	21+44	338754	3487974
14	23+01	338365	3487844
15	24+31	338363	3487715
16	25+07	338440	3487711
17	26+63	338581	3487645
18	27+56	338666	3487611
19	28+96	338780	3487527
20	32+36	338786	3487188
21	32+73	338788	3487150
22	36+80	338824	3486746
23	40+81	338838	3486636
24	44+95	338038	3486527
25	49+10	337638	3486419
26	55+24	337238	3486311
27	57+39	336838	3486202
28	61+53	336438	3486094
29	65+68	336038	3485986
30	69+72	335638	3486046
31	74+57	335589	3486528
32	75+71	335489	3486586
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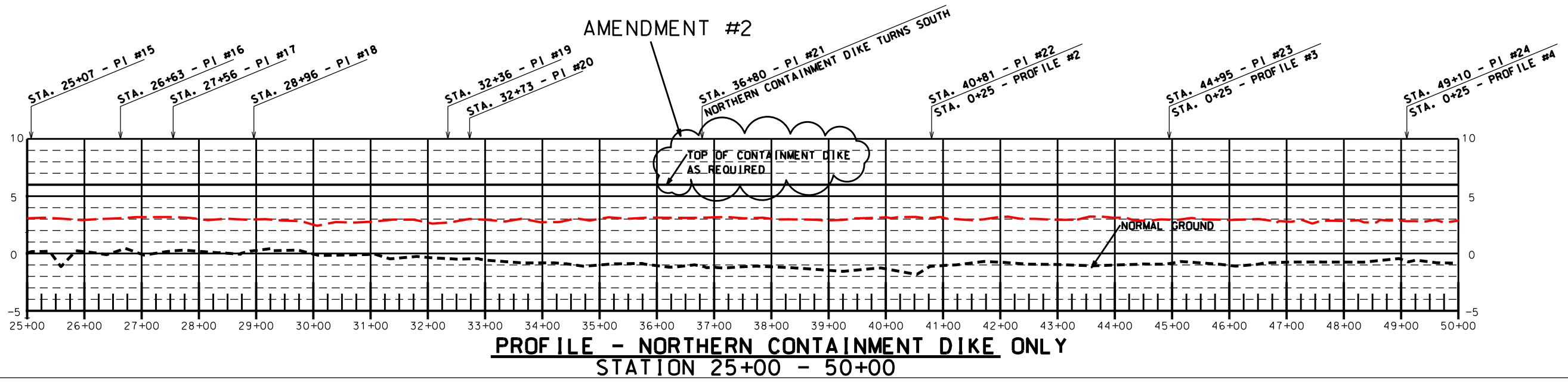


PLAN VIEW-NORTHERN MARSH CREATION AREA  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

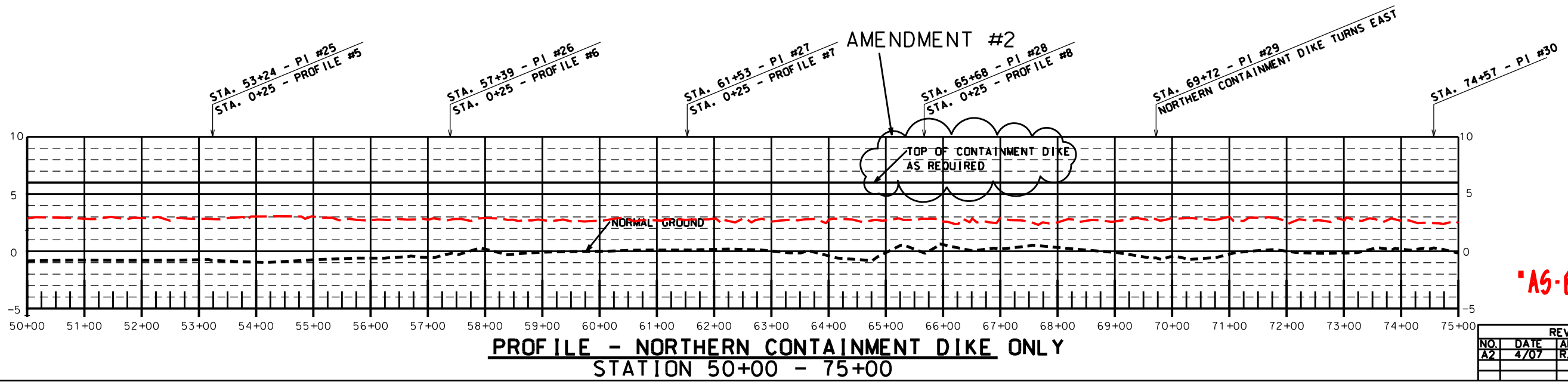
Designed	R. FAULKNER	Date	01/05
Drawn	A.J.J. GREMILLION		01/05
Checked	B.A. STICKER		06/06
Approved	E.J.J. GIERING III		12/06



**PROFILE - NORTHERN CONTAINMENT DIKE ONLY**  
STATION 0+00 - 25+00



**PROFILE - NORTHERN CONTAINMENT DIKE ONLY**  
STATION 25+00 - 50+00

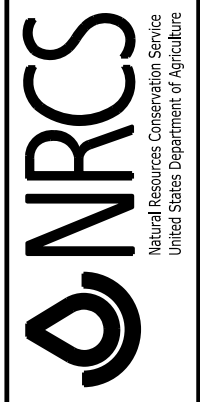


**PROFILE - NORTHERN CONTAINMENT DIKE ONLY**  
STATION 50+00 - 75+00

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.

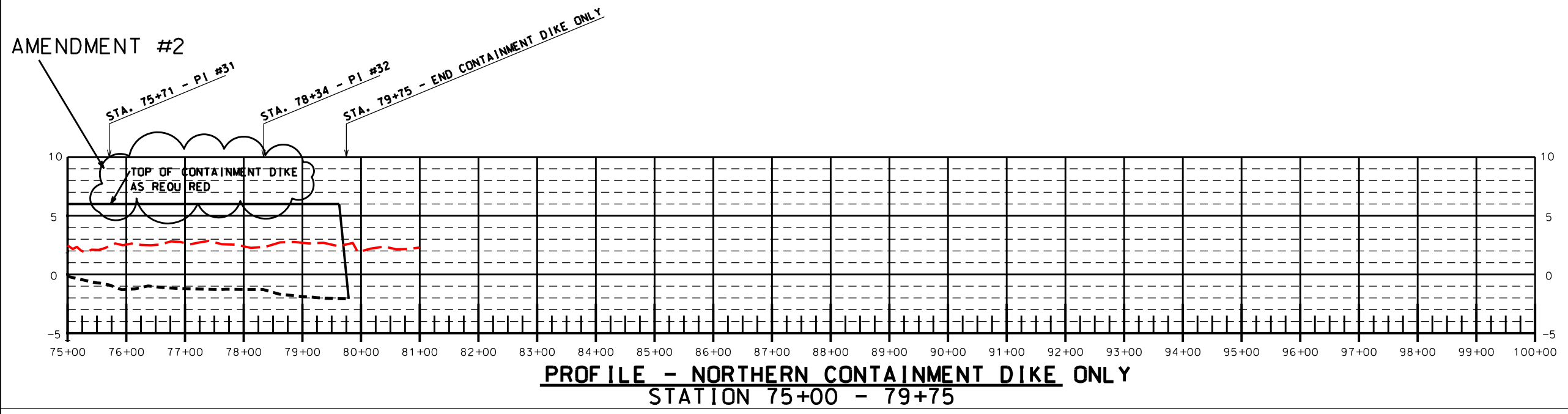
Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

PROFILE - NORTHERN CONTAINMENT DIKE  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346025A2.dgn





**PROFILE - NORTHERN CONTAINMENT DIKE ONLY**  
STATION 75+00 - 79+75

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

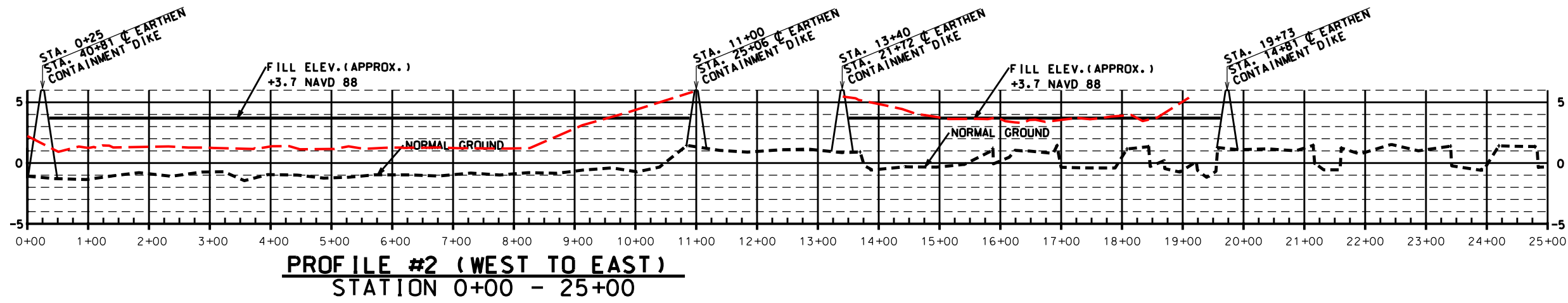
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TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



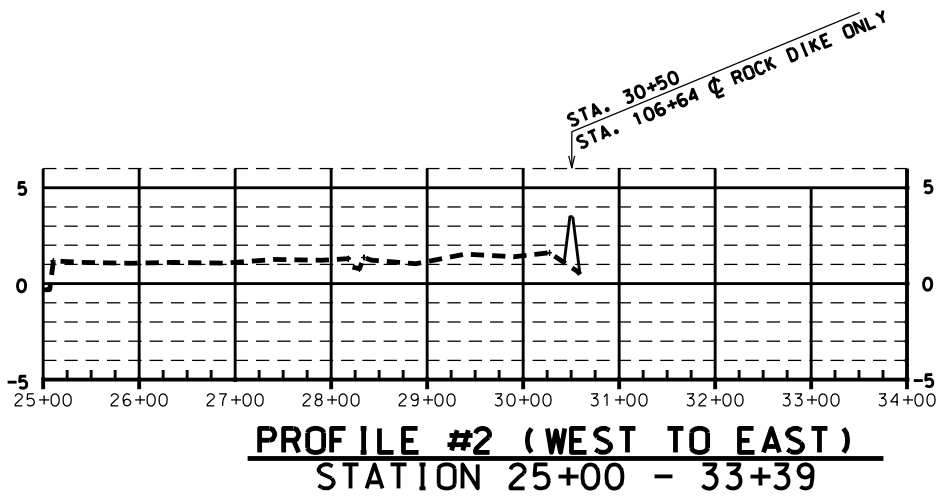
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LA-346

Drawing Name  
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REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.



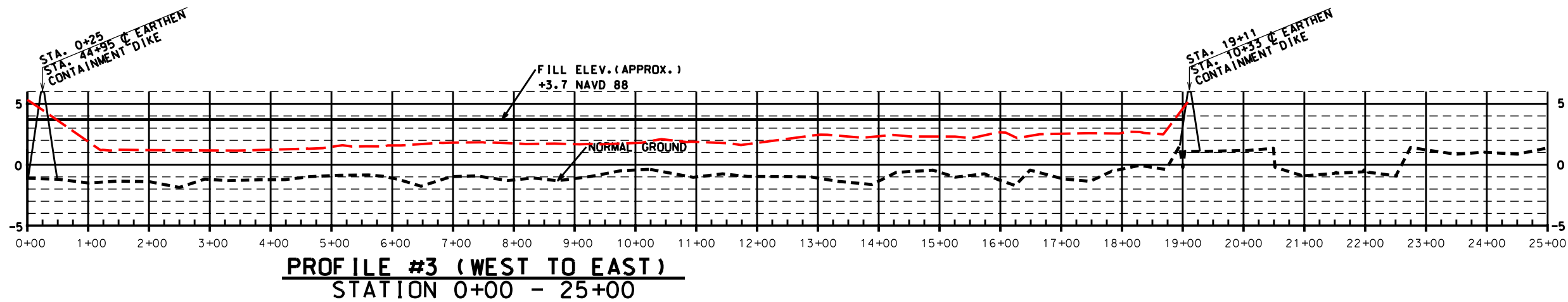
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STATION 0+00 - 25+00



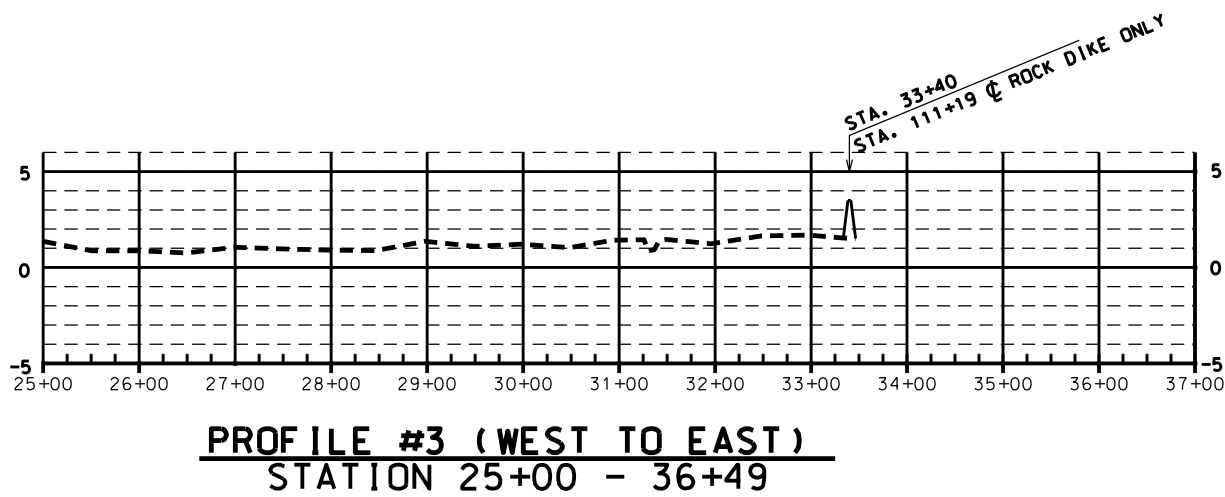
**PROFILE #2 (WEST TO EAST)**  
STATION 25+00 - 33+39

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.



**PROFILE #3 (WEST TO EAST)**  
STATION 0+00 - 25+00

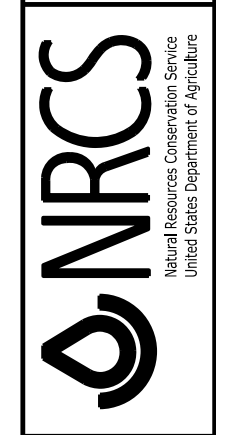


**PROFILE #3 (WEST TO EAST)**  
STATION 25+00 - 36+49

**"AS-BUILT"**

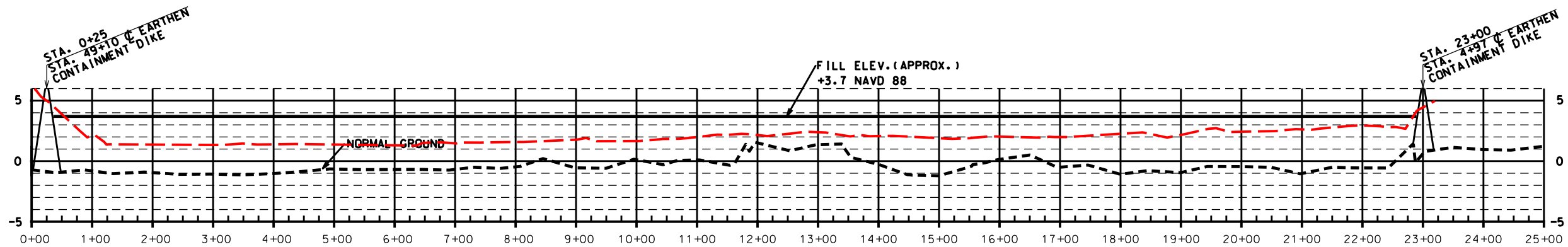
Date	01/05
Designed	R. FAULKNER
Drawn	A.-J. GREMILLON
Checked	B. A. STICKER
Approved	E.-J. GIERING III

PROFILE #2 & PROFILE #3  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

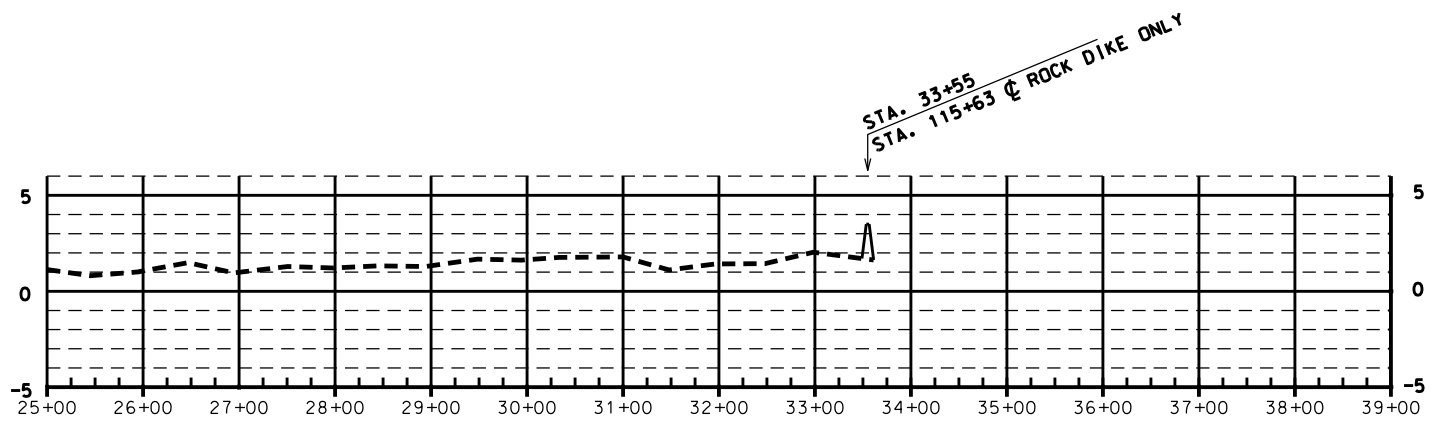


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Drawing Name	LA346027.dgn
Sheet	27 of 65

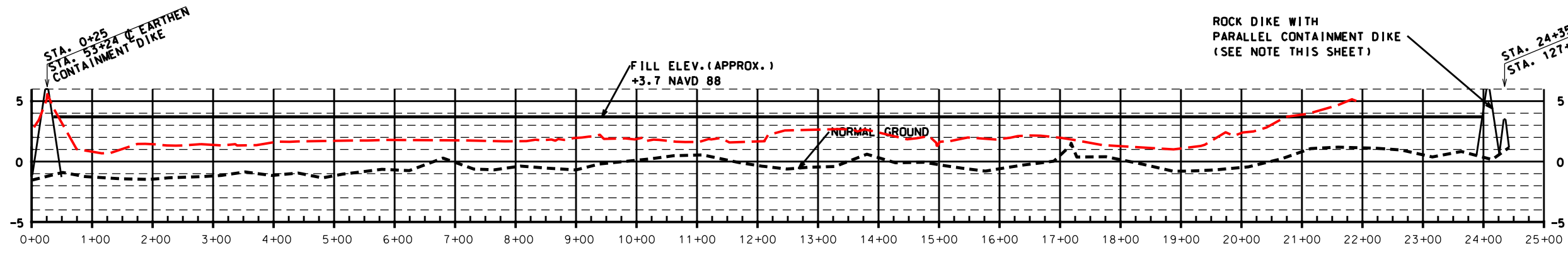
REVISIONS			
NO.	DATE	APPROVED	TITLE



**PROFILE #4 (WEST TO EAST)**  
STATION 0+00 - 25+00



**PROFILE #4 (WEST TO EAST)**  
STATION 25+00 - 38+45



**PROFILE #5 (WEST TO EAST)**  
STATION 0+00 - 25+00

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

NOTE:

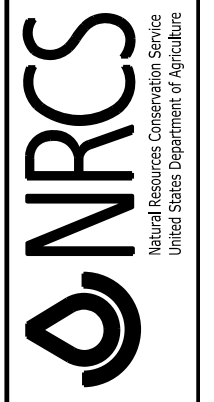
THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE

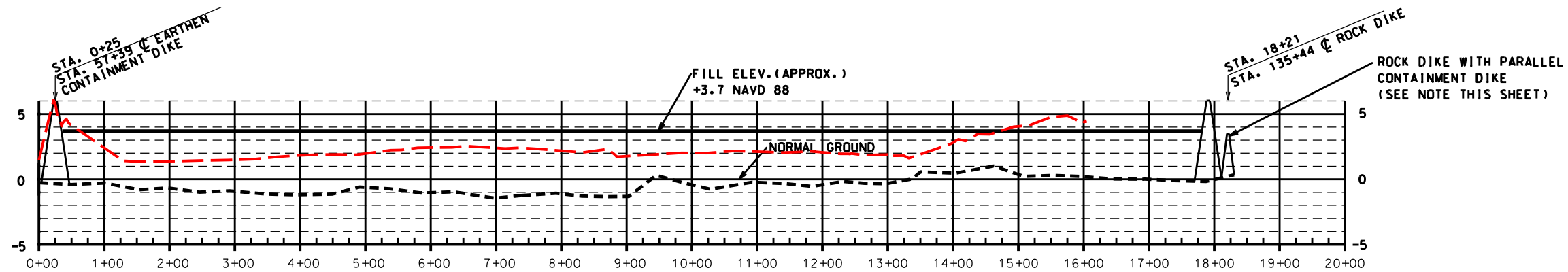
Date			
01/05	R. FAULKNER		
01/05	A.J. GREMILLON		
06/06	B.A. STICKER		
12/06	E.J. GIERING III		

PROFILE #4 & PROFILE #5  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

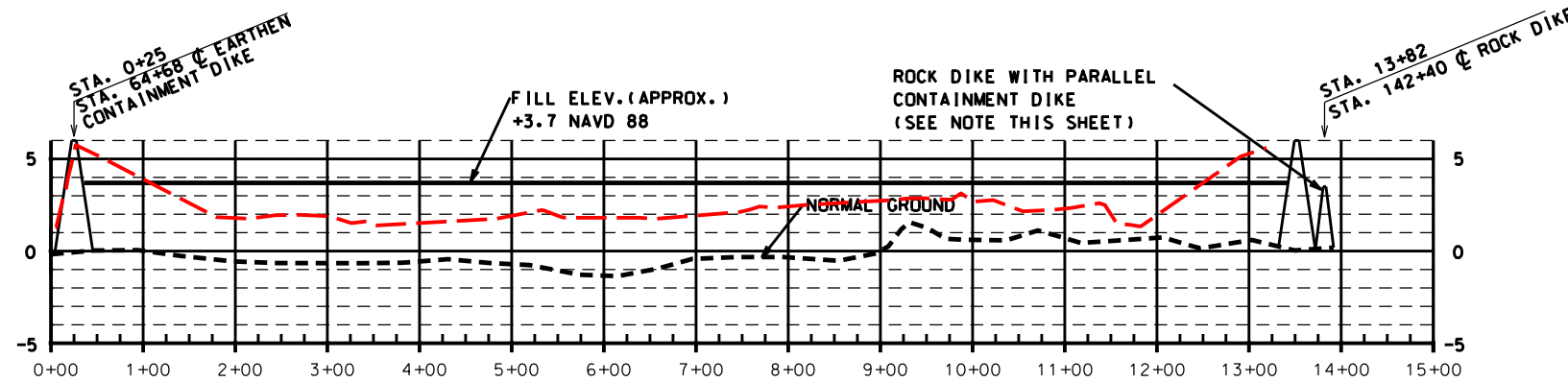


File Name	LA-346
Drawing Name	LA346028.dgn
Sheet	28 of 65





**PROFILE #6 (WEST TO EAST)**  
STATION 0+00 - 25+00



**PROFILE #7 (WEST TO EAST)**  
STATION 0+00 - 25+00

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

NOTE:

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PROFILE #6 & PROFILE #7  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

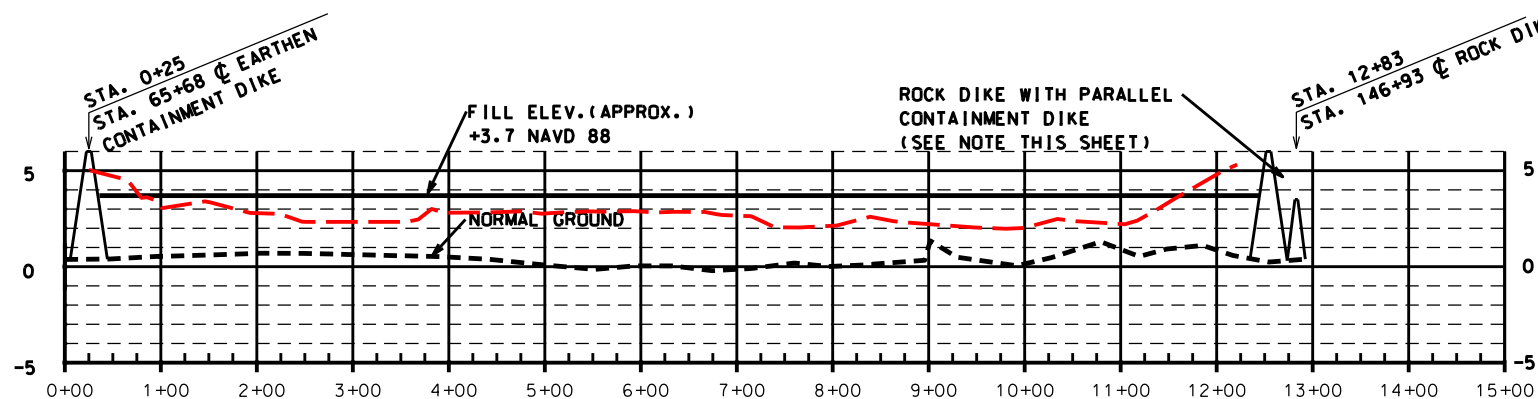


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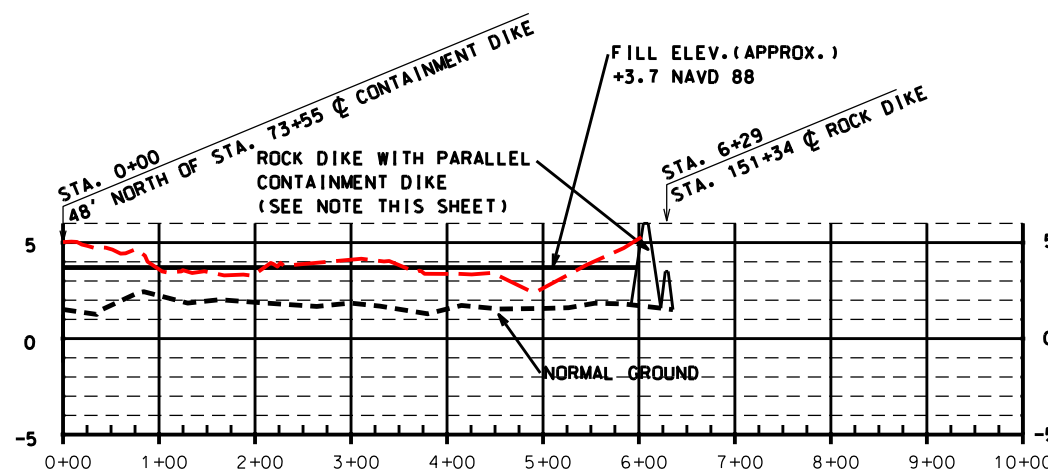
LA-346

Drawing Name

LA346029.dgn



**PROFILE #8 (WEST TO EAST)**  
STATION 0+00 - 24+72



**PROFILE #9 (WEST TO EAST)**  
STATION 0+00 - 15+54

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

NOTE:

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

PROFILE #8 & PROFILE #9  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



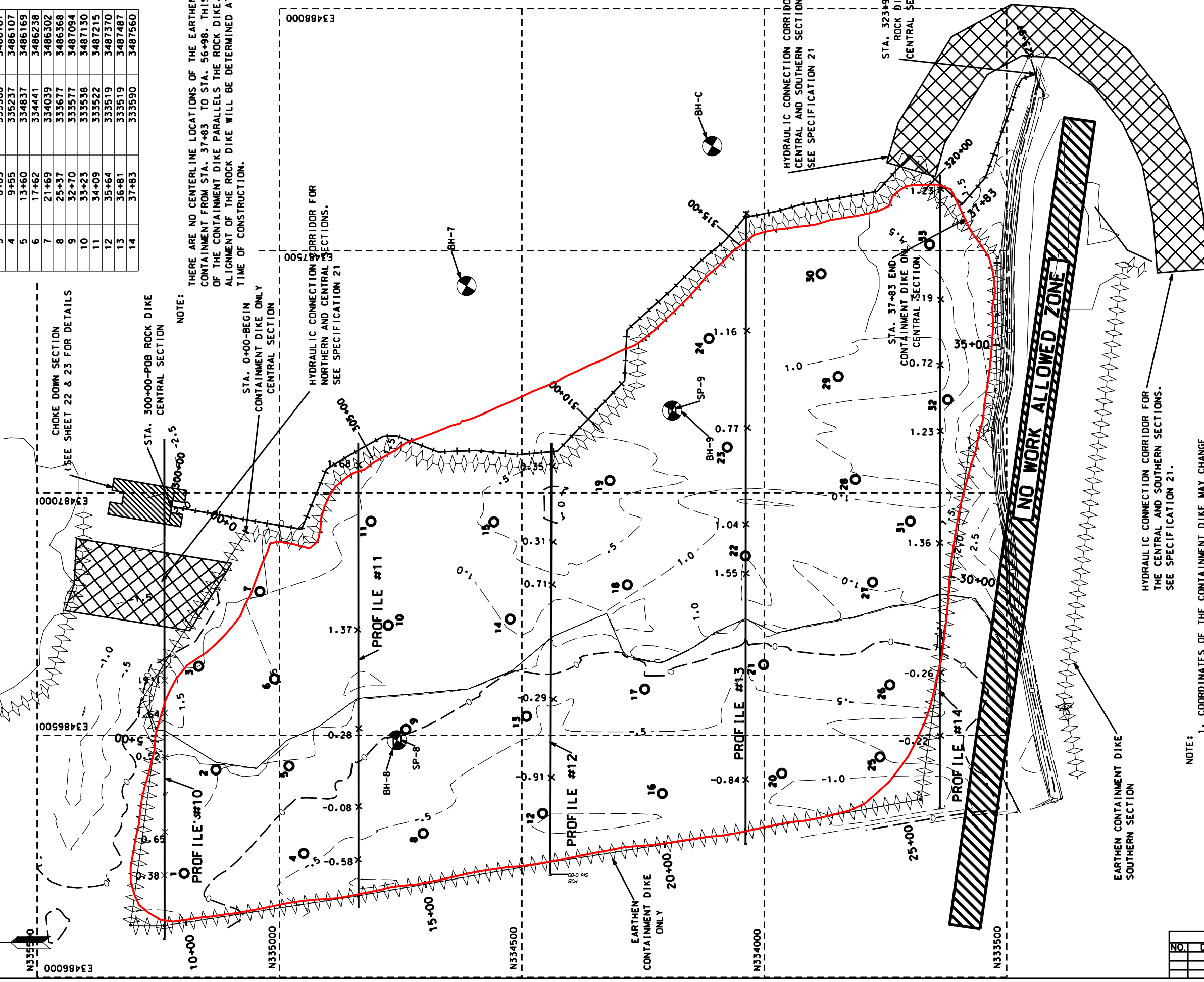
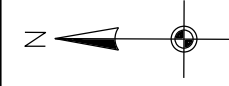
File Name	LA-346
Drawing Name	LA346030.dgn
Sheet	30 of 65

NOTE:  
SEE CONSTRUCTION SPECIFICATION 7 FOR  
COORDINATE LOCATION OF STAFF GAUGES.

MARSH CREATION AREA  
CENTRAL SEGMENT = 38 ACRES

NOTE:  
THE CENTERLINE LOCATIONS OF THE EARTHEN  
CONTAINMENT DIKE COULD BE ADJUSTED AS  
NEEDED IN THE FIELD AS CONCURRED IN  
BY THE COIR.

PT. #	STATION	NORTHING	EASTING
POB	0+00	335070	3486920
1	4+06	335284	3486574
2	4+75	335253	3486513
3	8+85	335308	3486107
4	9+55	335237	3486107
5	13+60	334837	3486169
6	17+62	334441	3486238
7	21+69	334039	3486302
8	25+37	333677	3486368
9	32+70	333577	3487094
10	33+23	333538	3487130
11	34+09	333522	3487215
12	35+64	333519	3487370
13	36+81	333519	3487487
14	37+83	333590	3487560



NOTE:  
THERE ARE NO CENTERLINE LOCATIONS OF THE EARTHEN  
CONTAINMENT FROM STA. 37+83 TO STA. 56+98. THIS REACH  
OF THE CONTAINMENT DIKE PARALLELS THE ROCK DIKE. THE  
ALIGNMENT OF THE ROCK DIKE WILL BE DETERMINED AT THE  
TIME OF CONSTRUCTION.

NOTE:  
1. COORDINATES OF THE CONTAINMENT DIKE MAY CHANGE  
DUE TO FINAL LOCATION OF ROCK IN ORDER TO MAINTAIN  
ACREAGE SHOWN ON SHEET 4.  
2. THE TOPO SHOWN IS FROM PRE-HURRICANE SURVEYS. THE  
ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

**WEST LAKE BOUDREAU - MARSH CREATION**  
**CENTRAL SECTION - PLAN VIEW**



REVISIONS			
NO.	DATE	APPROVED	TITLE

File Name  
LA-346

Drawing Name  
LA346031.dgn

Date  
01/05

Designed  
R. FAULKNER

Drawn  
A.J. GREMILLON

Checked  
B.A. STICKER

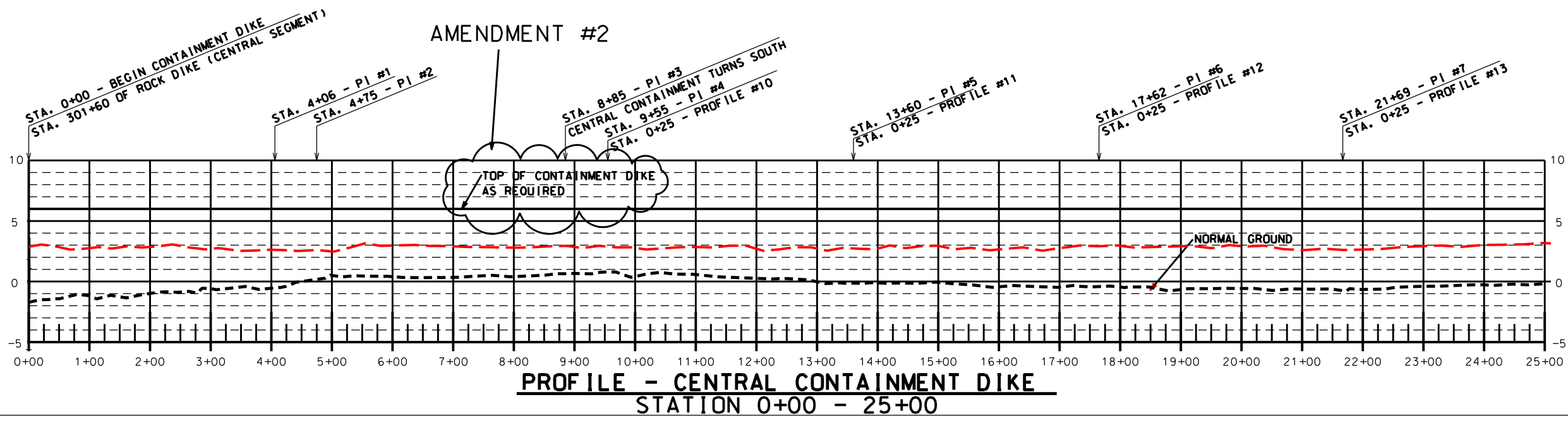
Approved  
E.J. GIERING III

PLAN VIEW-CENTRAL MARSH CREATION AREA  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

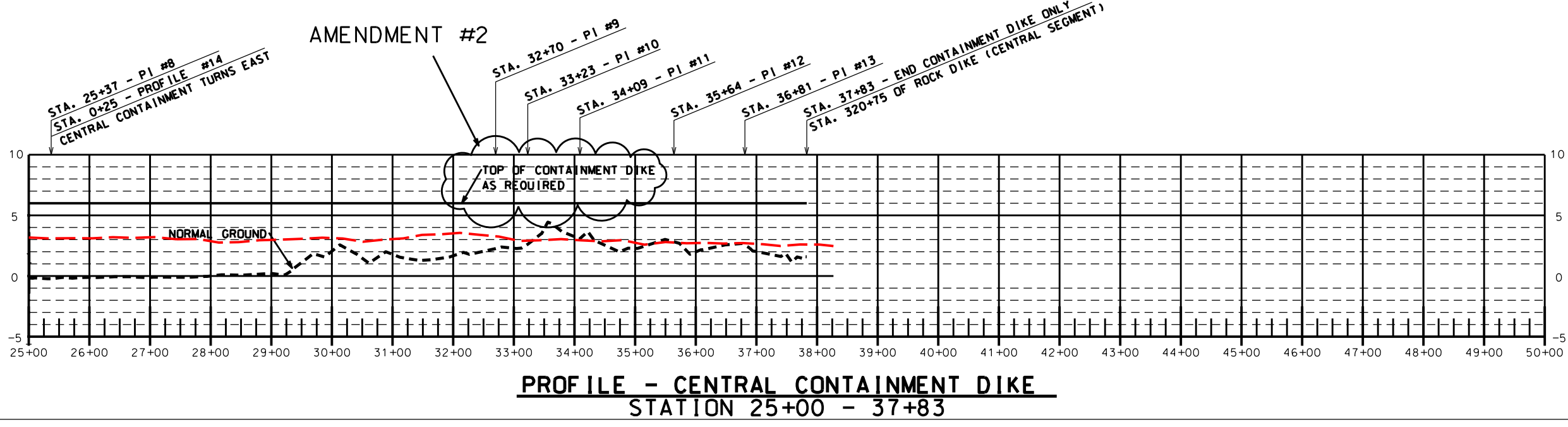
NRC  
Natural Resources Conservation Service  
United States Department of Agriculture

"AS-BUILT"





**PROFILE - CENTRAL CONTAINMENT DIKE**  
STATION 0+00 - 25+00

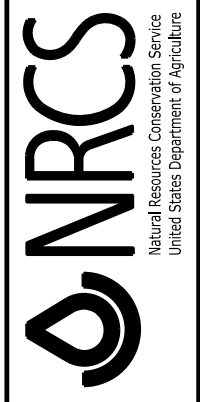


**PROFILE - CENTRAL CONTAINMENT DIKE**  
STATION 25+00 - 37+83

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

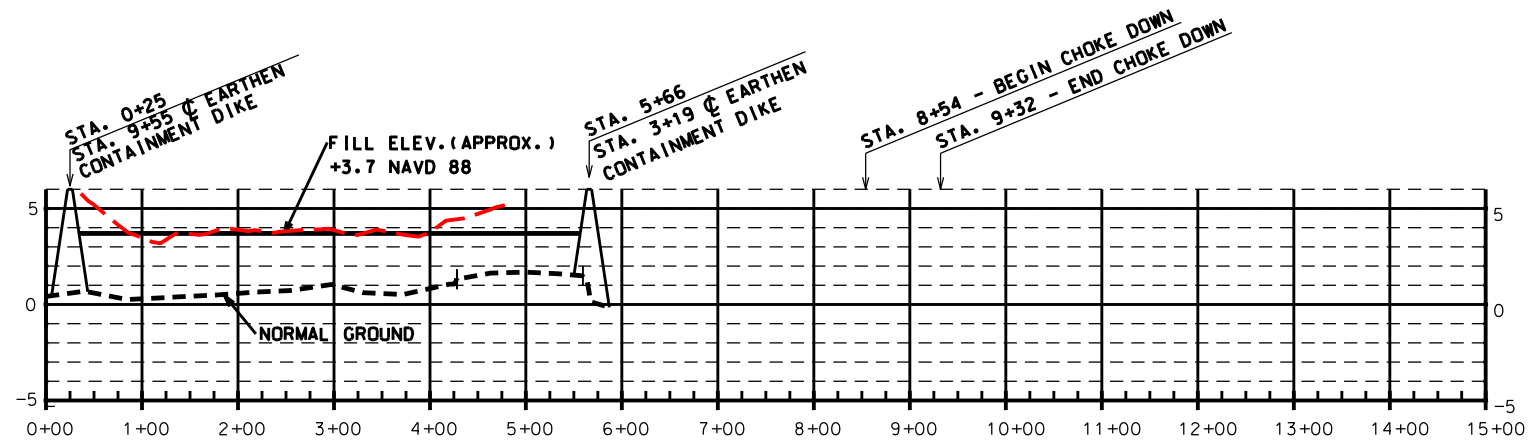
PROFILE-CENTRAL CONTAINMENT DIKE  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



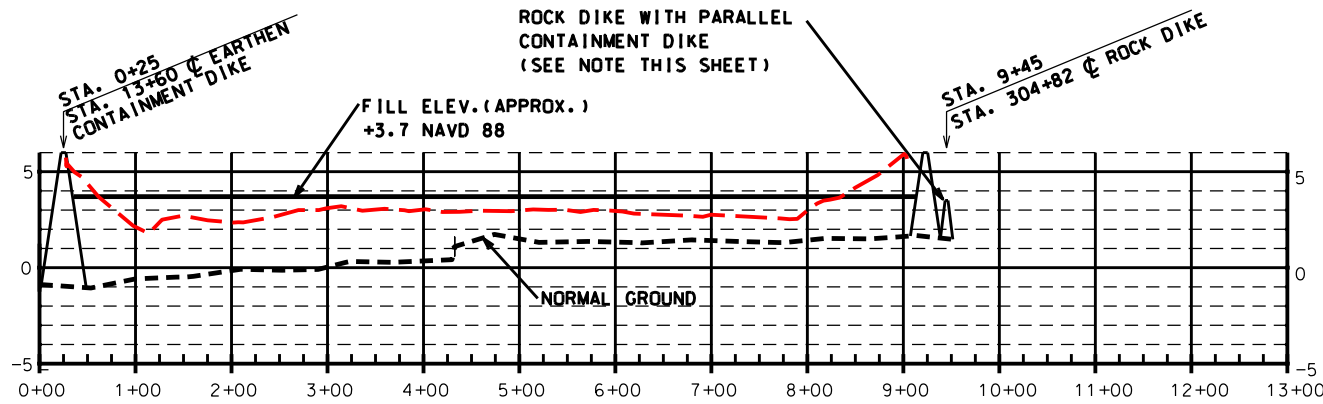
File Name  
LA-346

Drawing Name  
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REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.



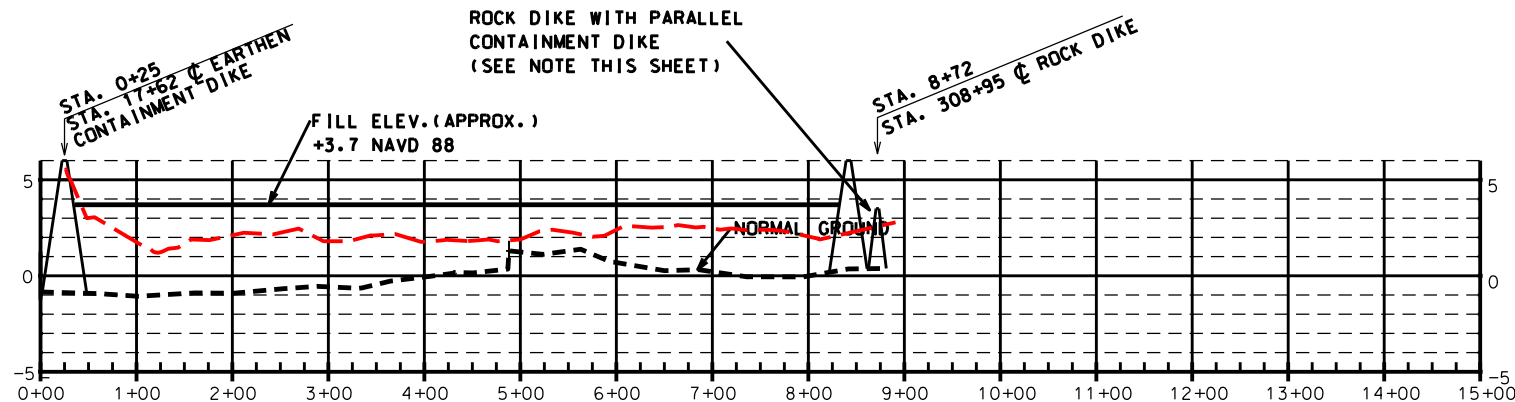
**PROFILE #10 (WEST TO EAST)**  
STATION 0+00 - 14+19



**PROFILE #11 (WEST TO EAST)**  
STATION 0+00 - 12+78

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.



**PROFILE #12 (WEST TO EAST)**  
STATION 0+00 - 14+31

NOTE:

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

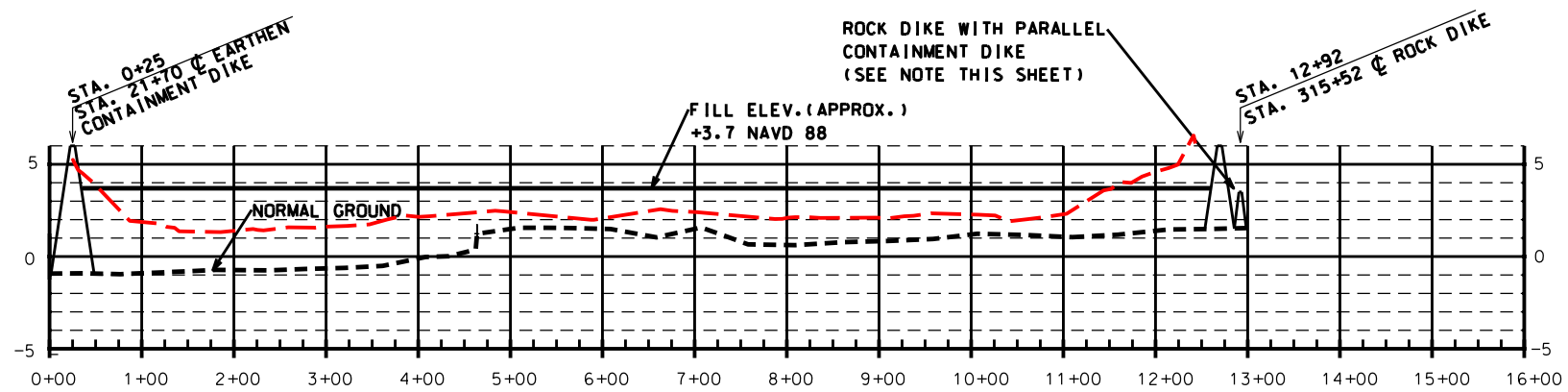
PROFILE #10, PROFILE #11 & PROFILE #12  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



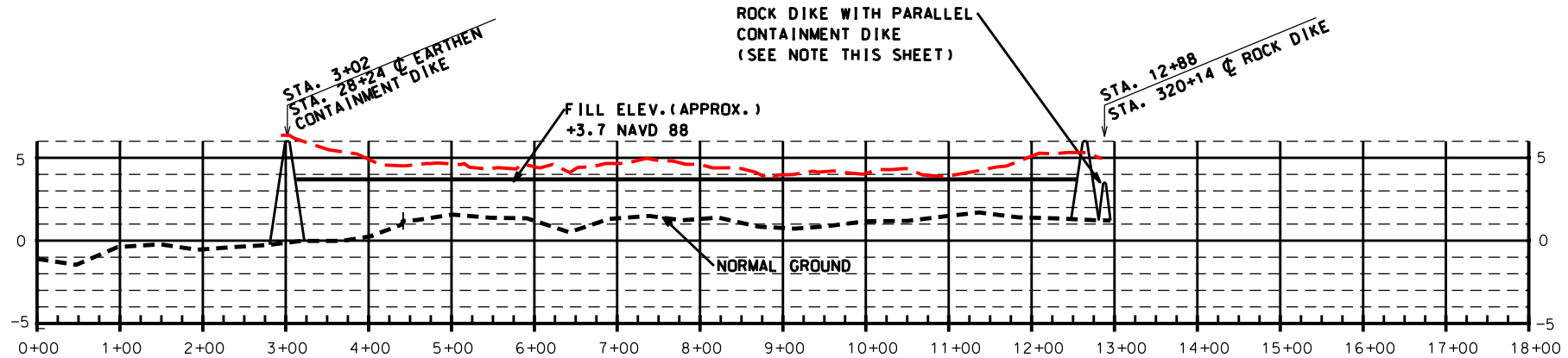
File Name  
LA-346

Drawing Name  
LA346033.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE



**PROFILE #13 (WEST TO EAST)**  
STATION 0+00 - 15+90



**PROFILE #14 (WEST TO EAST)**  
STATION 0+00 - 17+38

**NOTE:**

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

**"AS-BUILT"**

**NOTE:**

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

PROFILE #13 & PROFILE #14  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

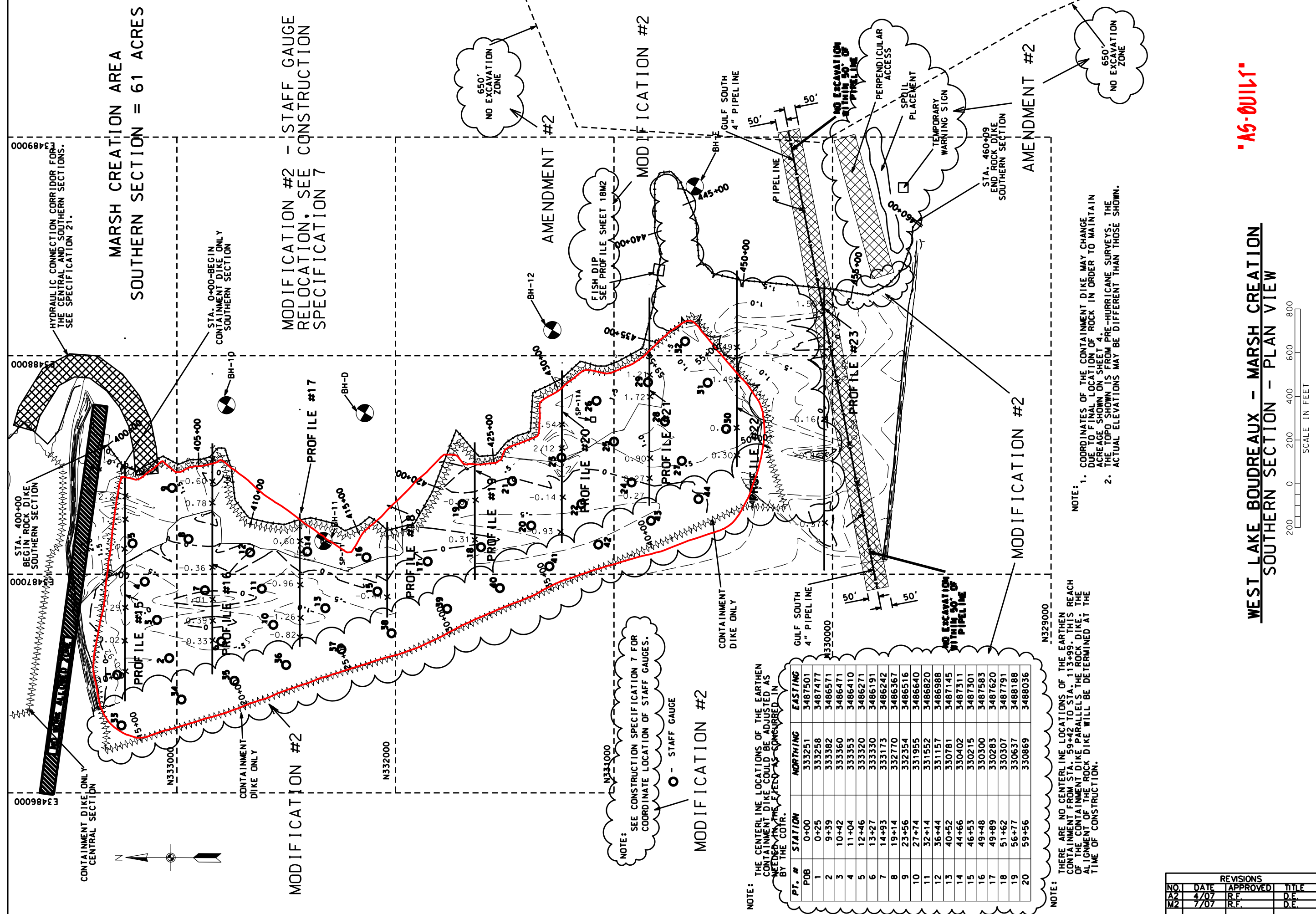


File Name  
LA-346

Drawing Name  
LA346034.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE





MARSH CREATION AREA  
SOUTHERN SECTION = 61 ACRES

MODIFICATION #2 - STAFF GAUGE  
RELOCATION, SEE CONSTRUCTION  
SPECIFICATION 7

MODIFICATION #2

MODIFICATION #2

MODIFICATION #2

AMENDMENT #2

AMENDMENT #2

NOTE: SEE CONSTRUCTION SPECIFICATION 7 FOR  
COORDINATE LOCATION OF STAFF GAUGES.

NOTE: THE CENTERLINE LOCATIONS OF THE EARTHEN  
CONTAINMENT DIKE COULD BE ADJUSTED AS  
NEEDED IN THE FIELD AS CONSIDERED IN  
BY THE CONTR.

PT. #	STATION	NORTHING	EASTING
POB	0+00	3487501	3487501
1	0+25	333251	3487477
2	9+39	333258	3487477
3	10+42	333382	3486571
4	11+04	333360	3486410
5	12+46	333353	3486471
6	13+27	333320	3486271
7	14+93	333330	3486191
8	19+14	332770	3486367
9	23+56	332354	3486516
10	27+74	331955	3486640
11	32+14	331552	3486820
12	36+44	331157	3486988
13	40+52	330781	3487145
14	44+66	330402	3487311
15	46+53	330215	3487301
16	49+48	330300	3487583
17	49+89	330283	3487620
18	51+62	330307	3487791
19	56+77	330637	3488188
20	59+56	330869	3488036

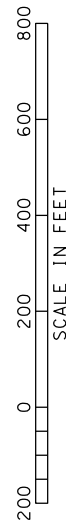
NOTE: THERE ARE NO CENTERLINE LOCATIONS OF THE EARTHEN  
CONTAINMENT DIKE FROM STA. 59+42 TO STA. 113+99. THIS REACH  
OF THE CONTAINMENT DIKE PARALLELS THE ROCK DIKE. THE  
ALIGNMENT OF THE ROCK DIKE WILL BE DETERMINED AT THE  
TIME OF CONSTRUCTION.

NOTE: 1. COORDINATES OF THE CONTAINMENT DIKE MAY CHANGE  
DUE TO FINAL LOCATION OF ROCK IN ORDER TO MAINTAIN  
ACREAGE SHOWN ON SHEET 4.  
2. THE TOPO SHOWN IS FROM PRE-HURRICANE SURVEYS. THE  
ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.
M2	7/07	R.F.	D.E.

AS-BUILT

WEST LAKE BOUDREAU - MARSH CREATION  
SOUTHERN SECTION - PLAN VIEW



**FILE NAME**  
LA-346

**DRAWING NAME**  
LA346035M2.dgn

**SHEET** 35M2 of 65

**PLANNING**  
R. FAULKNER  
01/05

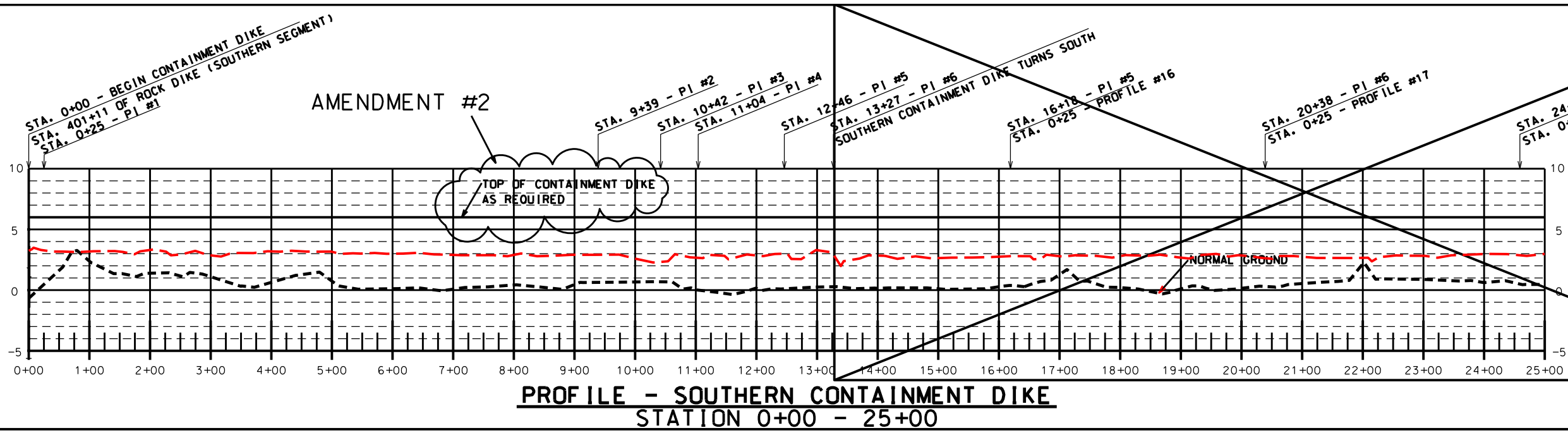
**DESIGNED**  
A.J. GREMILLION  
01/05

**DRAWN**  
B.A. STICKER  
06/06

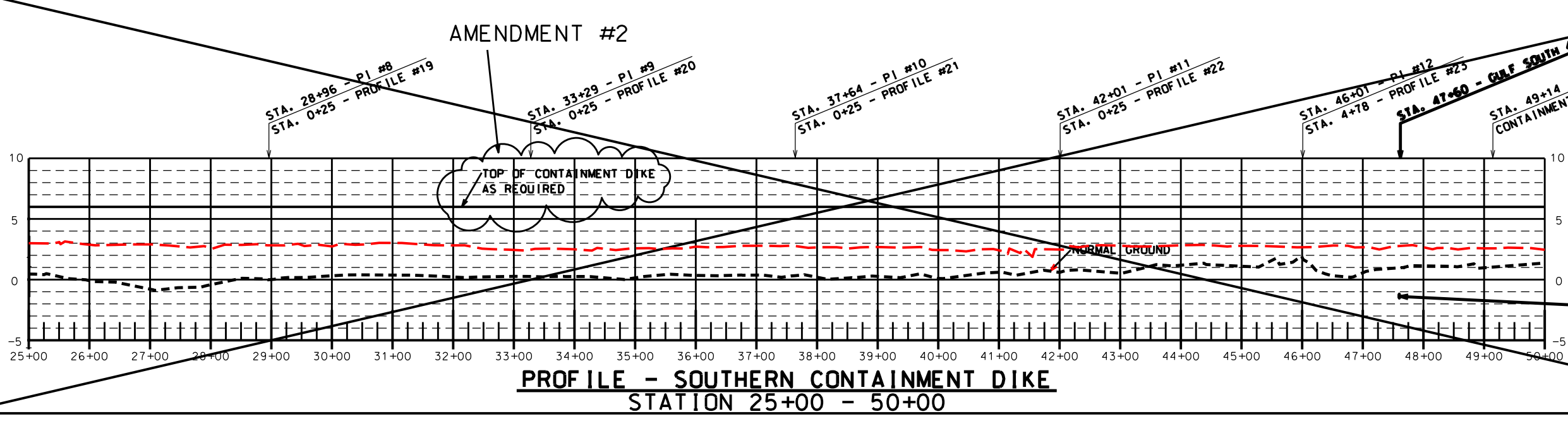
**CHECKED**  
E.J. GIERING III  
12/06

**APPROVED**

**PLAN VIEW-SOUTHERN MARSH CREATION AREA**  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



**PROFILE - SOUTHERN CONTAINMENT DIKE  
STATION 0+00 - 25+00**



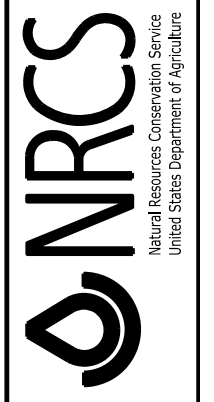
**PROFILE - SOUTHERN CONTAINMENT DIKE  
STATION 25+00 - 50+00**

MODIFICATION #2 - PROFILE  
OF RELOCATED CONTAINMENT DIKE  
SHALL BE AS-BUILT

**"AS-BUILT"**

Date	01/05
Designed	R. FAULKNER
Drawn	A.J. GREMILLON
Checked	B.A. STICKER
Approved	E.J. GIERING III

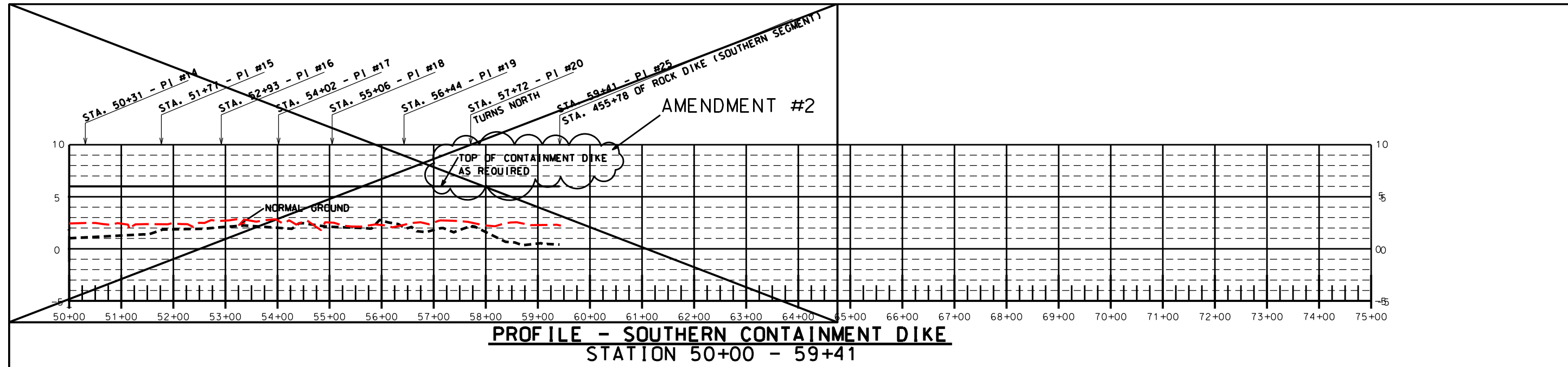
PROFILE - SOUTHERN CONTAINMENT DIKE  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name  
LA-346

Drawing Name  
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REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.
M2	7/07	R.F.	D.E.



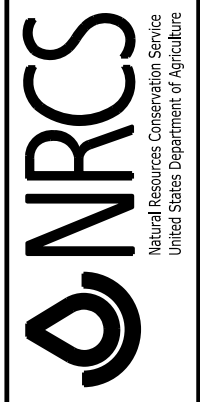
**PROFILE - SOUTHERN CONTAINMENT DIKE**  
STATION 50+00 - 59+41

MODIFICATION #2 - PROFILE  
OF RELOCATED CONTAINMENT DIKE  
SHALL BE AS-BUILT

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

PROFILE - SOUTHERN CONTAINMENT DIKE  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

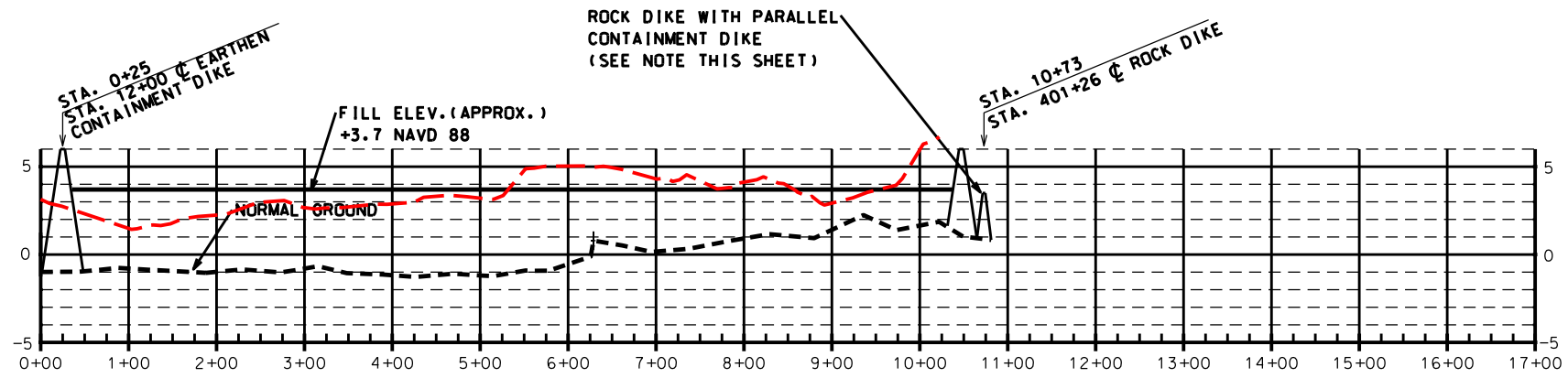


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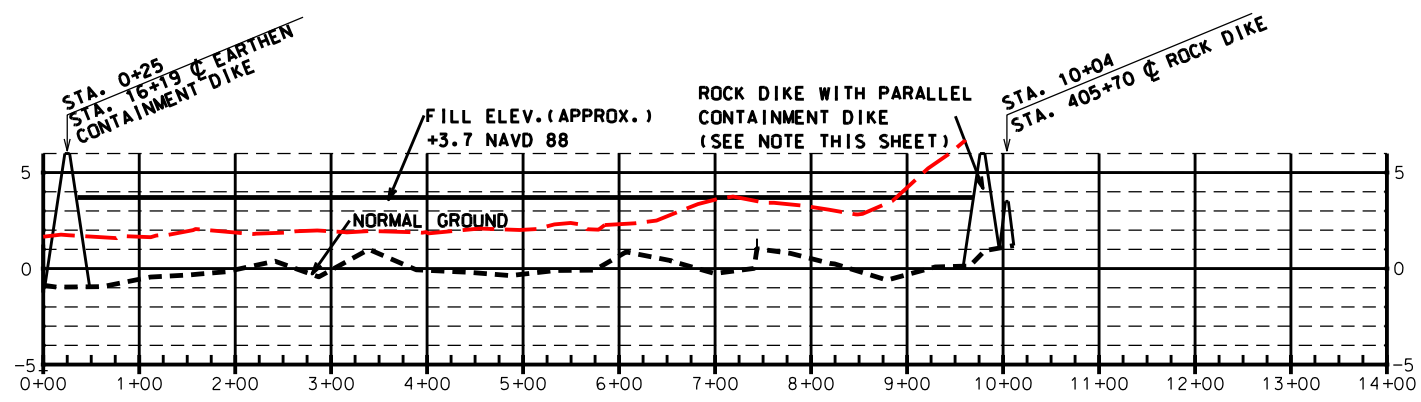
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LA346037M2.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	4/07	R.F.	D.E.
M2	7/07	R.F.	D.E.





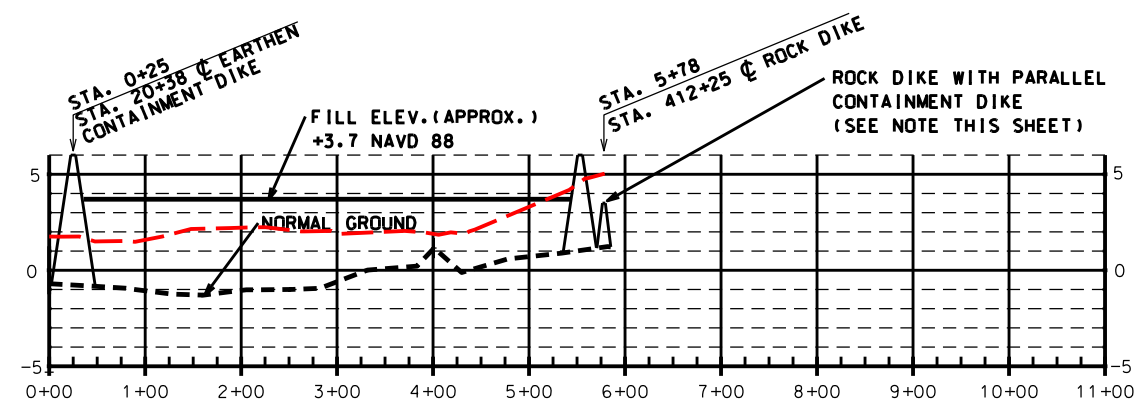
**PROFILE #15 (WEST TO EAST)**  
STATION 0+00 - 16+59



**PROFILE #16 (WEST TO EAST)**  
STATION 0+00 - 13+72

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERENT THAN THOSE SHOWN.



**PROFILE #17 (WEST TO EAST)**  
STATION 0+00 - 10+83

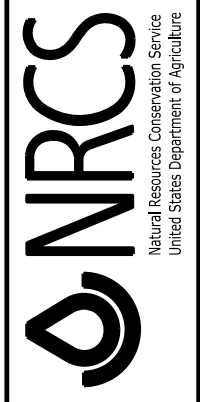
NOTE:

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

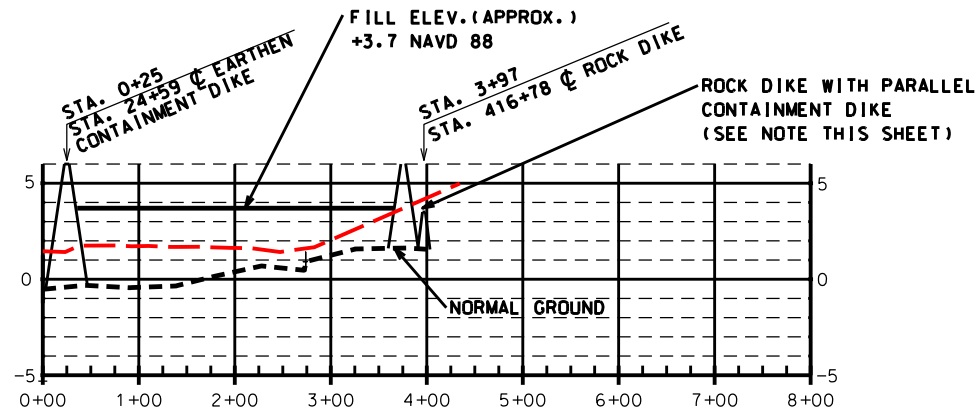
PROFILE #15, PROFILE #16 & PROFILE #17  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



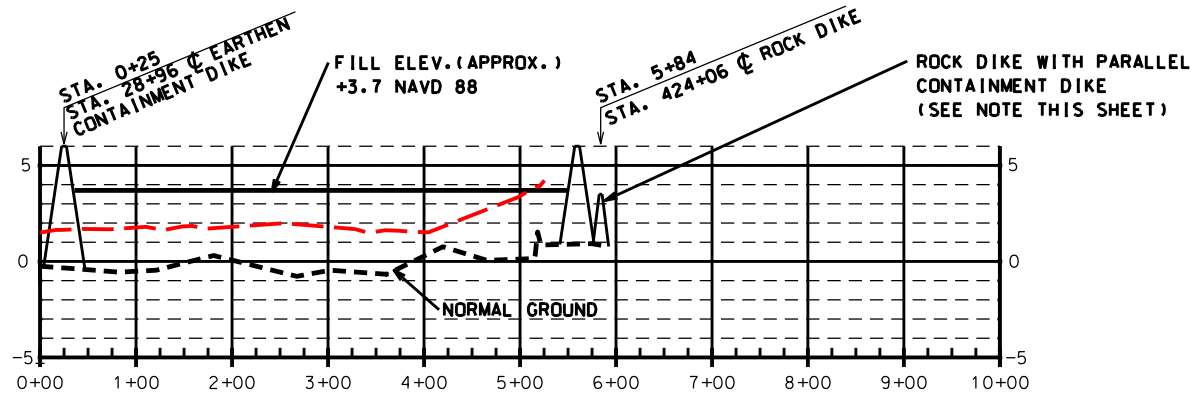
File Name  
LA-346

Drawing Name  
LA346038.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE



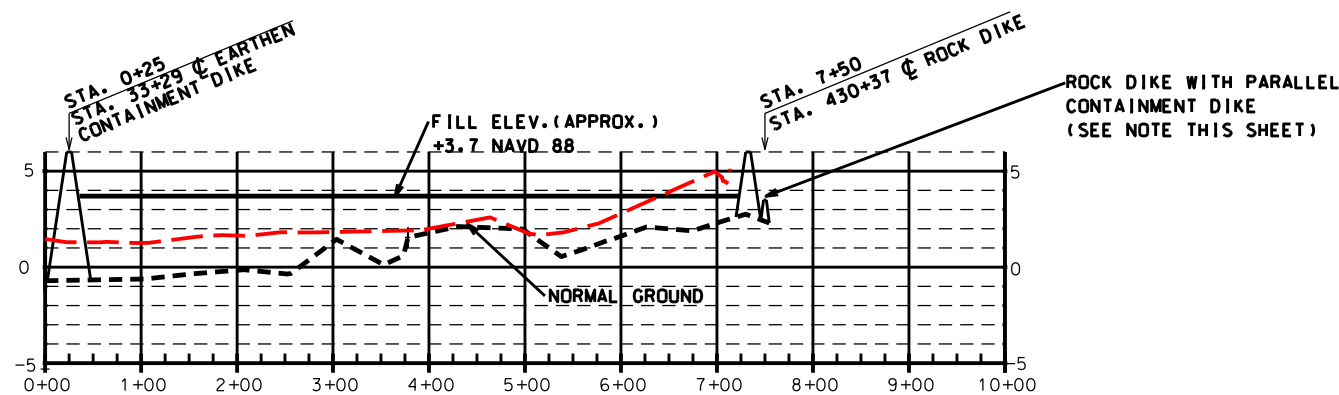
**PROFILE #18 (WEST TO EAST)**  
STATION 0+00 - 12+01



**PROFILE #19 (WEST TO EAST)**  
STATION 0+00 - 13+15

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERNT THAN THOSE SHOWN.



**PROFILE #20 (WEST TO EAST)**  
STATION 0+00 - 13+21

NOTE:

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

"AS-BUILT"

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

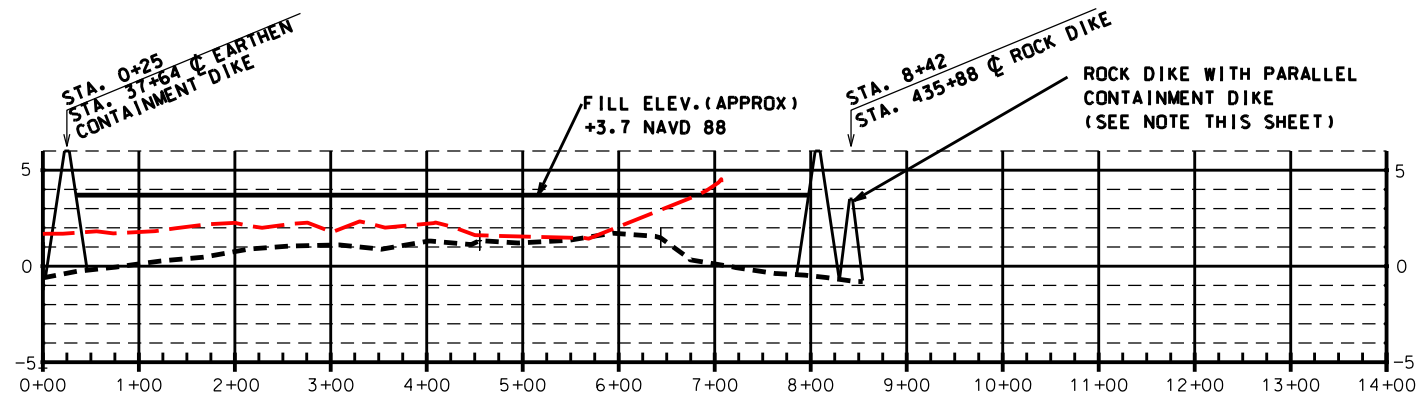
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TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



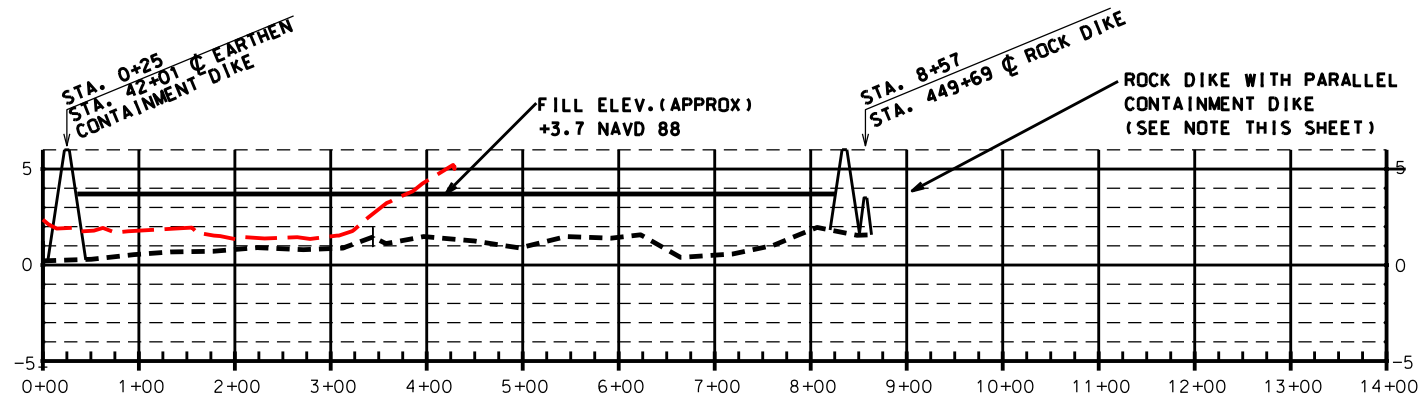
File Name  
LA-346

Drawing Name  
LA346039.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE



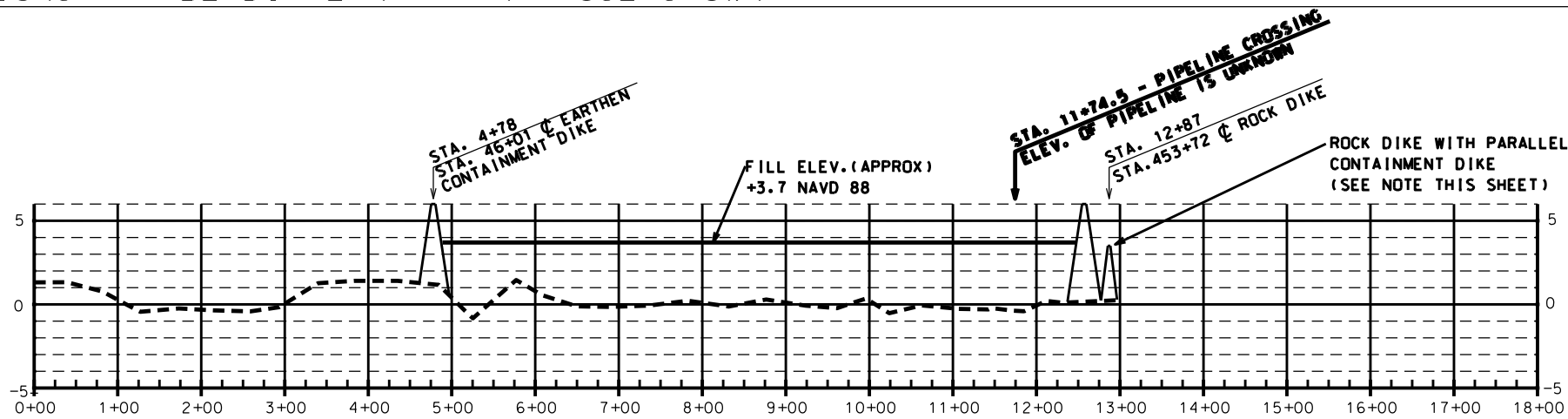
**PROFILE #21 (WEST TO EAST)**  
STATION 0+00 - 18+29



**PROFILE #22 (WEST TO EAST)**  
STATION 0+00 - 13+98

NOTE:

THE ELEVATIONS SHOWN ARE FROM PRE-HURRICANE SURVEYS.  
THE ACTUAL ELEVATIONS MAY BE DIFFERNT THAN THOSE SHOWN.



**PROFILE #23 (WEST TO EAST)**  
STATION 0+00 - 17+81

NOTE:

THE LOCATION OF THE ROCK DIKE WITH THE PARALLEL CONTAINMENT DIKE IS APPROXIMATE. THE ROCK DIKE SHALL BE CONSTRUCTED FIRST AND THE ALIGNMENT OF THE ROCK DIKE SHALL BE DETERMINED IN THE FIELD BY THE C.O.T.R.

**"AS-BUILT"**

REVISIONS			
NO.	DATE	APPROVED	TITLE

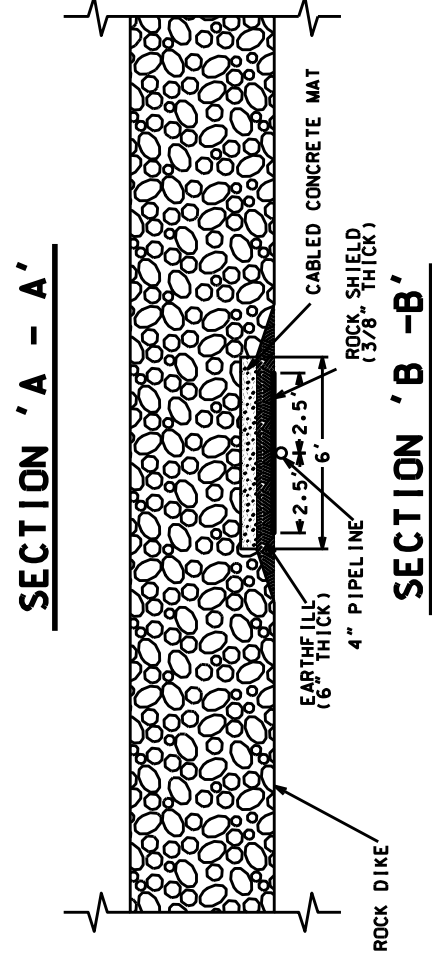
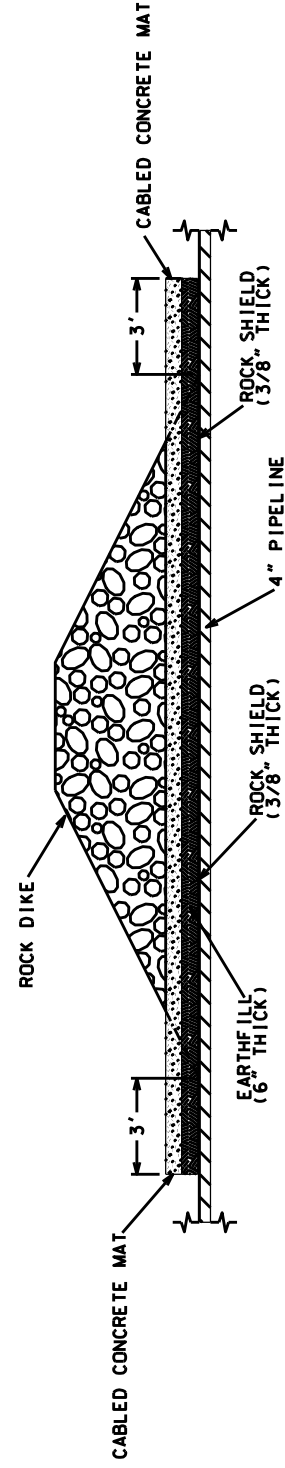
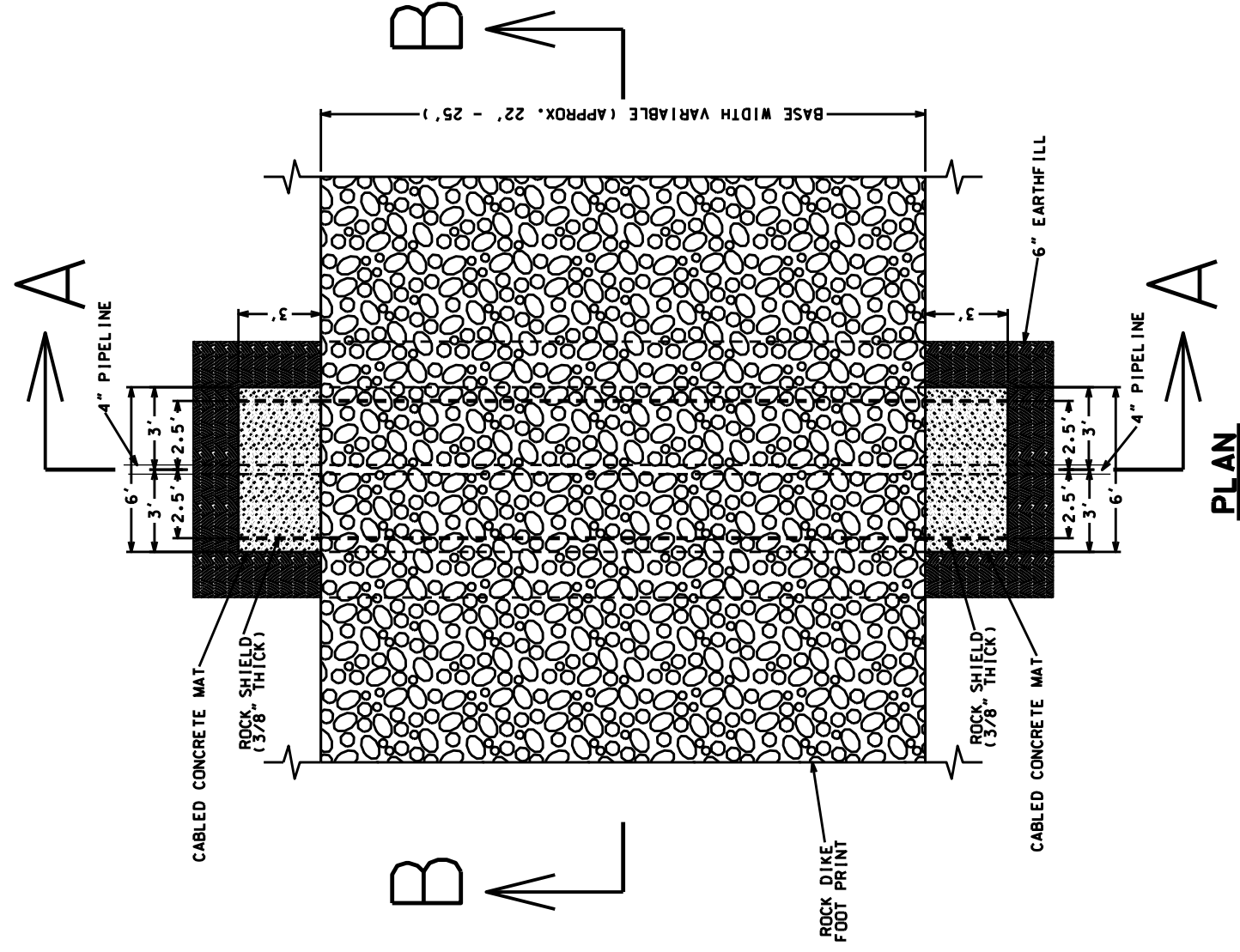
Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

PROFILE #21, PROFILE #22 & PROFILE #23  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346040.dgn
Sheet	40 of 65





**"AS-BUILT"**

**DETAILS-ROCK DIKE @ 4" PIPELINE**  
(NOT TO SCALE)

**NOTE:**  
SEE CONSTRUCTION SPECIFICATIONS, SPECIAL PROVISIONS  
FOR PIPELINE COMPANY CONTACT REQUIREMENTS

REVISIONS			
NO.	DATE	APPROVED	TITLE

File Name  
LA-346

Drawing Name  
LA346041.dgn



GULF SOUTH 4" PIPELINE DETAILS  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

Date	Designed	Drawn	Checked	Approved
01/05	R. FAULKNER	A.J. GREMILLON	B.A. STICKER	E.J. GIERING III
01/05				
06/06				
12/06				

AMENDMENT #2

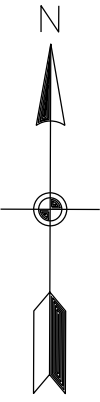
EARTHEN CONTAINMENT DIKE (SOUTHERN SECTION)  
TOP ELEVATION - AS REQUIRED  
TOP WIDTH - AS REQUIRED  
SIDE SLOPES - AS REQUIRED

AMENDMENT #2

AS REQUIRED

AS REQUIRED

EARTHEN CONTAINMENT DIKE



45+00

AS REQUIRED

BORROW CHANNEL

BORROW CHANNEL (SOUTHERN SECTION)  
DEPTH OF CUT: 6.0' MAX.  
BOTTOM WIDTH: VARIABLE  
SIDE SLOPES: 1 HORZ. / 1 VERT.

4" GULF SOUTH PIPELINE

ELEVATION OF OF 4" GULF SOUTH PIPELINE IS UNCERTAIN.

**EARTHEN CONTAINMENT DIKE @ PIPELINE**  
(NOT TO SCALE)

PI#12  
Sta. 46+01

46+00

47+00

THE ELEVATION OF THE 4" GULF SOUTH PIPELINE AT THE EARTHEN CONTAINMENT DIKE (STA. 47+60) IS UNCERTAIN.

Sta. 47+60  
C of GULF SOUTH 4" PIPELINE

48+00

NOTE:  
NO EXCAVATION ALLOWED WITHIN 50' OF PIPELINE.

MODIFICATION #2 - DELETE THIS SHEET

BORROW CHANNEL (SOUTHERN SECTION)  
DEPTH OF CUT: 6.0' MAX.  
BOTTOM WIDTH: VARIABLE  
SIDE SLOPES: 1 HORZ. / 1 VERT.

BORROW CHANNEL

PI#13  
Sta. 49+14

49+00

30' Berm

PI#14  
Sta. 50+31

51+00

PI#15  
Sta. 51+77

52+00

PI#16  
Sta. 52+93

53+00

54+00

**PLAN-EARTHEN CONTAINMENT DIKE ONLY @ PIPELINE**  
(SCALE AS SHOWN)



**"AS-BUILT"**

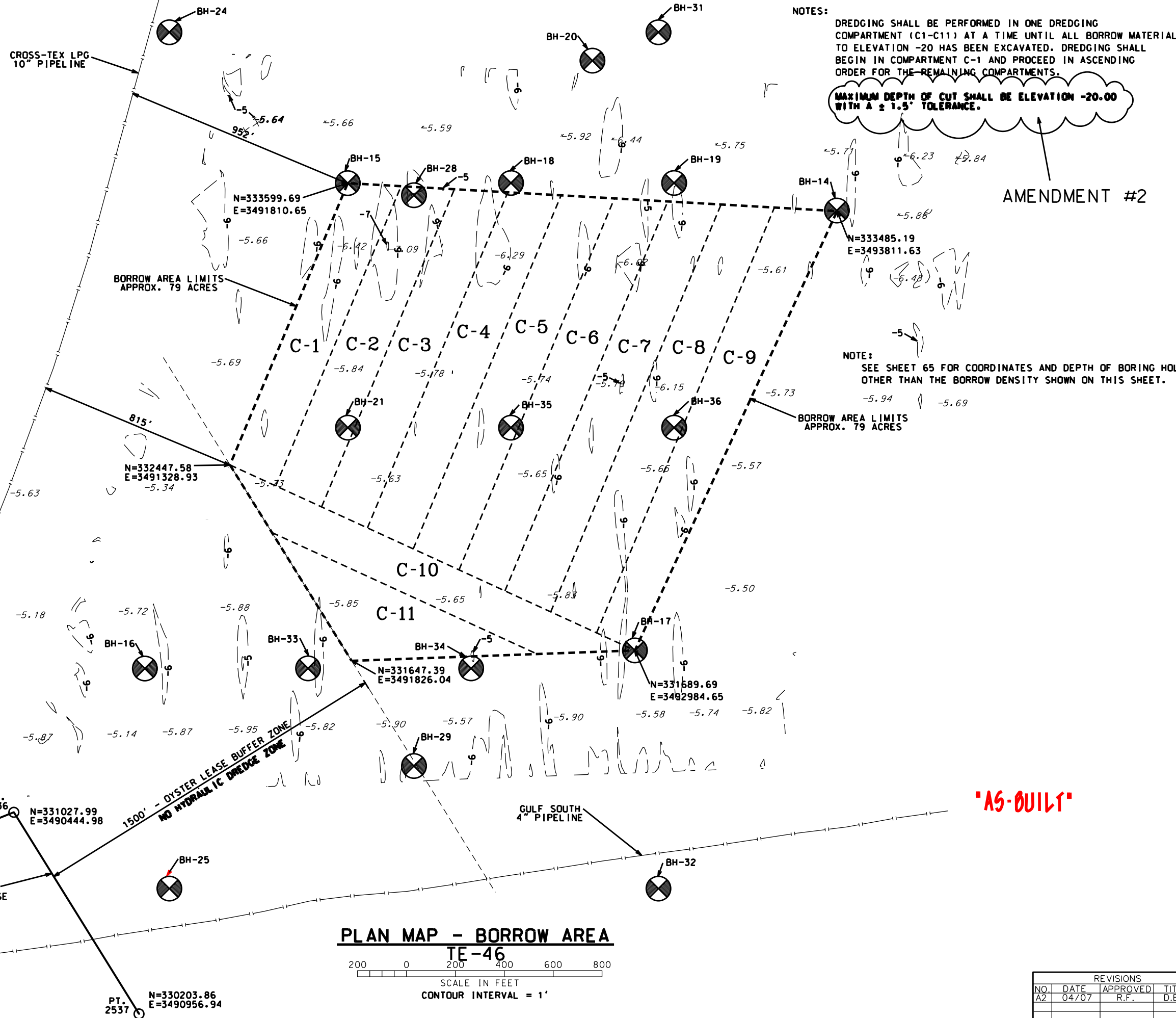
Date	01/05
Designed	R. FAULKNER
Drawn	A.J. GREMILLON
Checked	B.A. STICKER
Approved	E.J. GIERING

DETAILS- CONTAINMENT DIKE @ PIPELINE  
 TE-46 - WEST LAKE BOUDREAUX  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



File Name	LA-346
Drawing Name	LA346042M2.dgn
Sheet	42M2 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.
M2	04/07	R.F.	D.E.



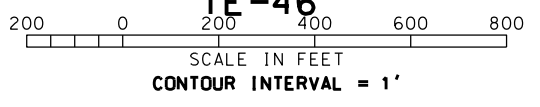
NOTES:  
 DREDGING SHALL BE PERFORMED IN ONE DREDGING COMPARTMENT (C1-C11) AT A TIME UNTIL ALL BORROW MATERIAL TO ELEVATION -20 HAS BEEN EXCAVATED. DREDGING SHALL BEGIN IN COMPARTMENT C-1 AND PROCEED IN ASCENDING ORDER FOR THE REMAINING COMPARTMENTS.

MAXIMUM DEPTH OF CUT SHALL BE ELEVATION -20.00 WITH A ± 1.5' TOLERANCE.

AMENDMENT #2

NOTE:  
 SEE SHEET 65 FOR COORDINATES AND DEPTH OF BORING HOLES OTHER THAN THE BORROW DENSITY SHOWN ON THIS SHEET.

**PLAN MAP - BORROW AREA**  
**TE-46**



**'AS-BUILT'**

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A. J. GREMILLION		01/05
CHECKED	B. A. STICKER		06/06
APPROVED	E. J. GIERING III		12/06

PLAN MAP - BORROW AREA  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERRBONE PARISH, LOUISIANA



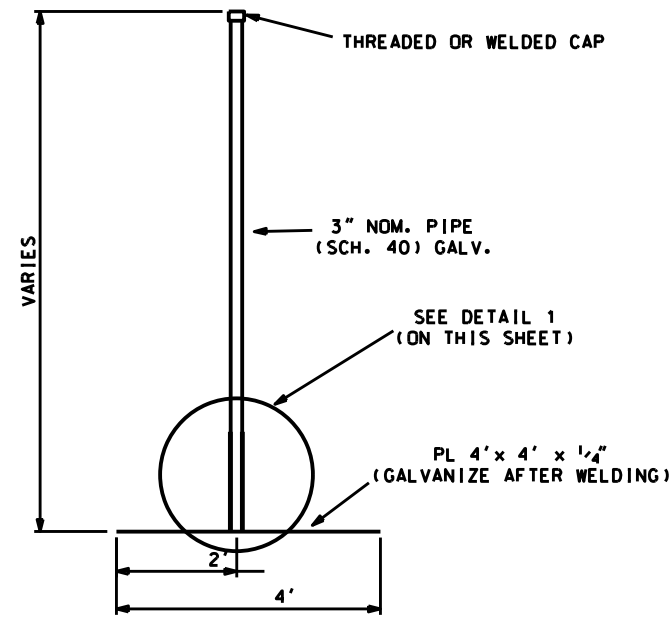
FILE NAME  
 LA-346

DRAWING NAME  
 LA346043A2.dgn

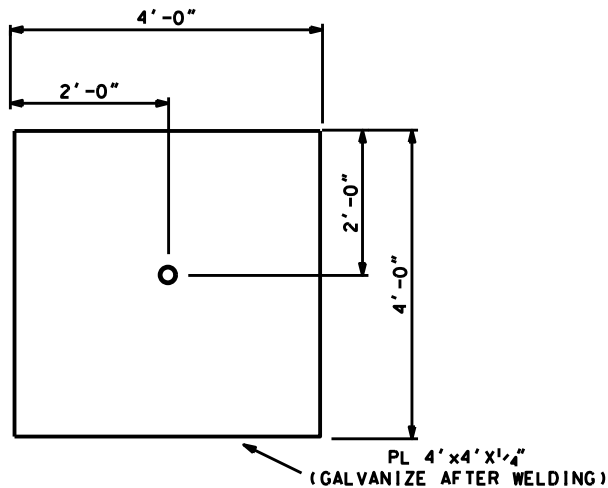
REVISIONS			
NO.	DATE	APPROVED	TITLE
A2	04/07	R.F.	D.E.



NOTE:  
IF THREADED CAP IS USED, COLD GALVINIZE  
THREADS AFTER INSTALLATION.



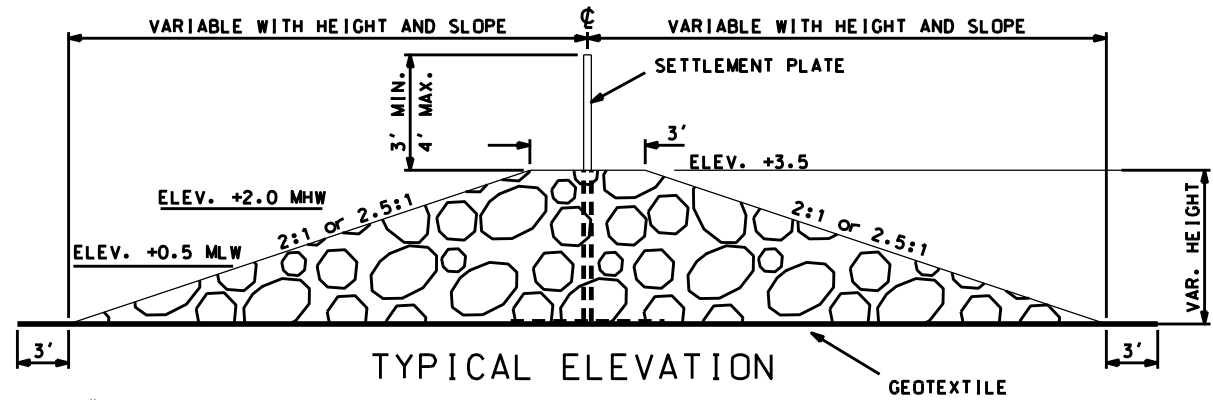
ELEVATION VIEW



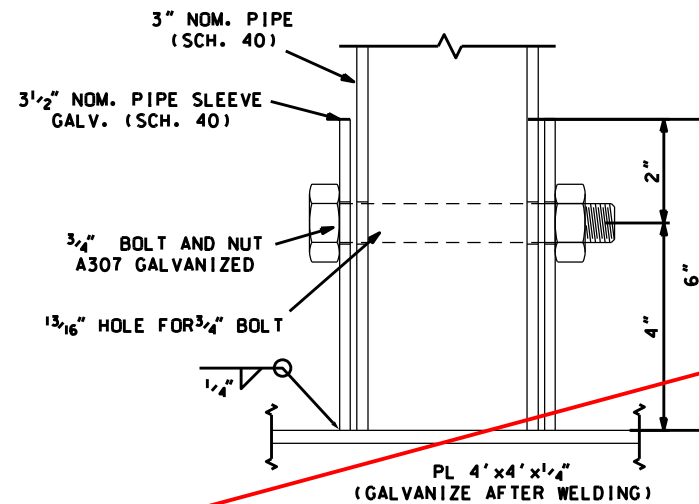
PLAN VIEW

NOTE:  
THE SETTLEMENT PLATE ELEVATION SHALL BE DETERMINED  
BEFORE PLACING ROCK AND AT END OF CONSTRUCTION.

SETTLEMENT PLATE DETAILS  
(NOT TO SCALE)



TYPICAL ELEVATION



DETAIL 1 - 6" PIPE SLEEVE  
(NOT TO SCALE)

ROCK DIKE  
SETTLEMENT PLATES

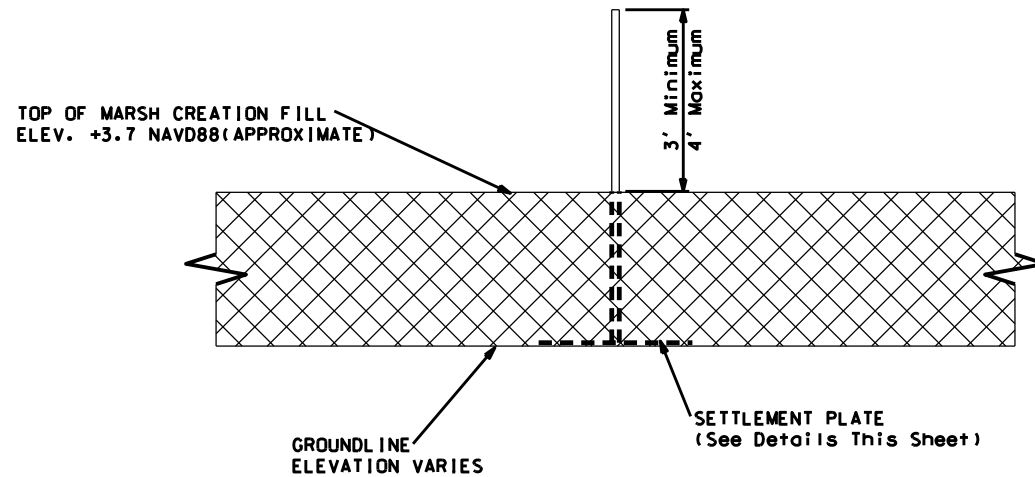
SECTION	STATION
NORTHERN	STA. 112+25
NORTHERN	STA. 116+50
NORTHERN	STA. 126+25
NORTHERN	STA. 148+25
NORTHERN	STA. 153+25
CENTRAL	STA. 307+50
CENTRAL	STA. 315+75
SOUTHERN	STA. 405+25
SOUTHERN	STA. 417+50
SOUTHERN	STA. 431+25
SOUTHERN	STA. 444+50

NOTE:  
THE SETTLEMENT PLATE ELEVATION SHALL BE DETERMINED  
BEFORE PLACING DREDGE FILL AND AT END OF CONSTRUCTION.

APPLIES TO SETTLEMENT PLATES 3,4,5,8,9,11 & 11A

ROCK DIKE SETTLEMENT PLATES

N337929.36	33409901.00	61.5.62
N337616.04	33409666.66	61.7.62
N337396.11	33408612.15	61.4.33
N335997.22	33407207.54	61.5.30
N335527.11	33407017.97	61.6.56
N334592.66	33407204.26	61.7.91
N333696.46	33407599.24	61.7.76
N332695.49	33407546.05	61.7.64
N331941.06	33407440.61	61.9.70
N330966.63	33407972.77	61.9.46
N330667.27	33406576.12	61.9.22



SETTLEMENT PLATE DETAILS WITHIN MARSH CREATION  
(NOT TO SCALE)

CREATION AREA SETTLEMENT PLATES

AREA	SP-#	NORTHING	EASTING
NORTHERN	SP-3	337454	3487216
NORTHERN	SP-4	336519	3487167
NORTHERN	SP-5	335948	3486507
CENTRAL	SP-8	334758	3486490
CENTRAL	SP-9	334190	3487170
SOUTHERN	SP-11	332329	3487152
SOUTHERN	SP-11A	331095	3487719

MODIFICATION #2

"AS-BUILT"

SETTLEMENT PLATE DETAILS  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

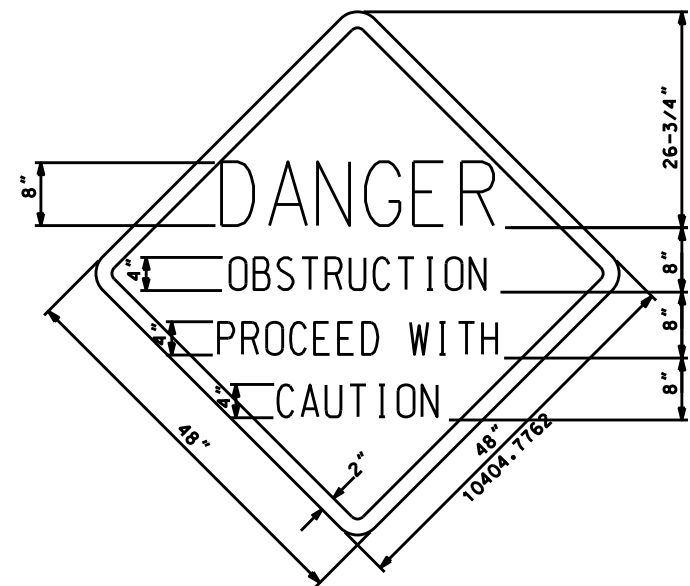
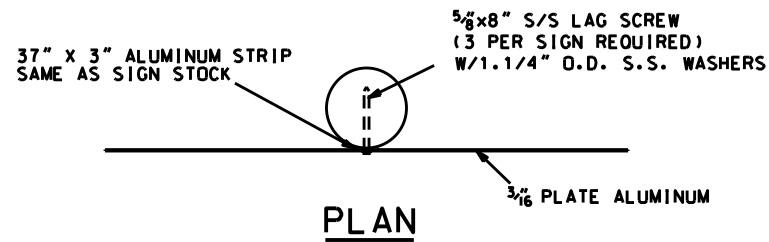
DATE	DESIGNED	DRAWN	CHECKED	APPROVED
01/05	R. FAULKNER	A.J. GREMILLION	B.A. STICKER	E.J. GERING III
01/05				
06/06				
12/06				



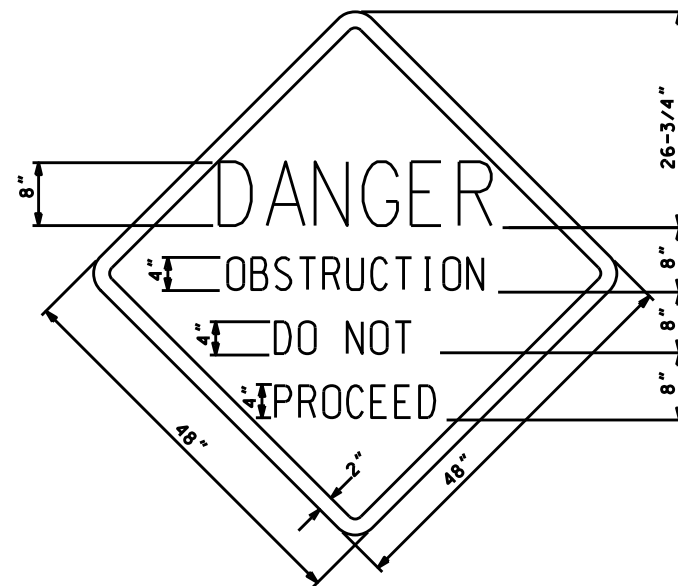
FILE NAME  
LA-346

DRAWING NAME  
LA346044M2.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE
M2	07/07	R.F.	D.E.

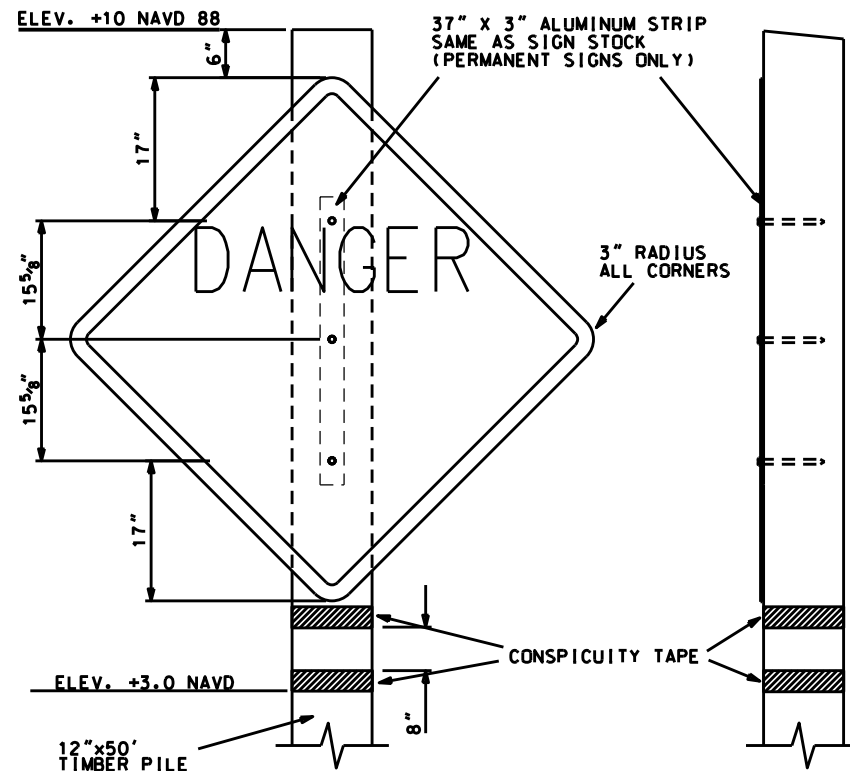


PERMANENT SIGN

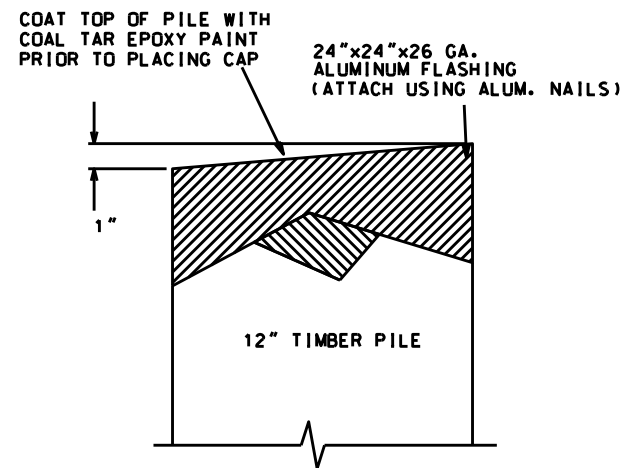


TEMPORARY SIGN

NOTE:  
 1. ALL SIGNS WITH EXCEPTION OF THE SIGNS LOCATED AT THE CHOKE DOWN SECTION AND THE PIPELINE CROSSING SHALL BE TEMPORARY SIGNS WITH THE WORDING "DANGER-OBSTRUCTION-DO NOT PROCEED."  
 2. THE 2" BORDER ON THE WARNING SIGN SHALL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD SHALL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS SHALL BE BLACK. WARNING SIGNS SHALL BE PLACED ON TWO SIDES WITH THE SIGN FACING PERPENDICULAR TO THE SHORELINE AS CONCURRED IN BY THE COTR.  
 3. TEMPORARY WARNING SIGNS SHALL BE PLACED AS SHOWN IN PLAN. MAXIMUM DISTANCE 500' APART.



PERMANENT WARNING SIGN DETAILS



TYPICAL TIMBER PILE CAP (NOT TO SCALE)

"AS-BUILT"

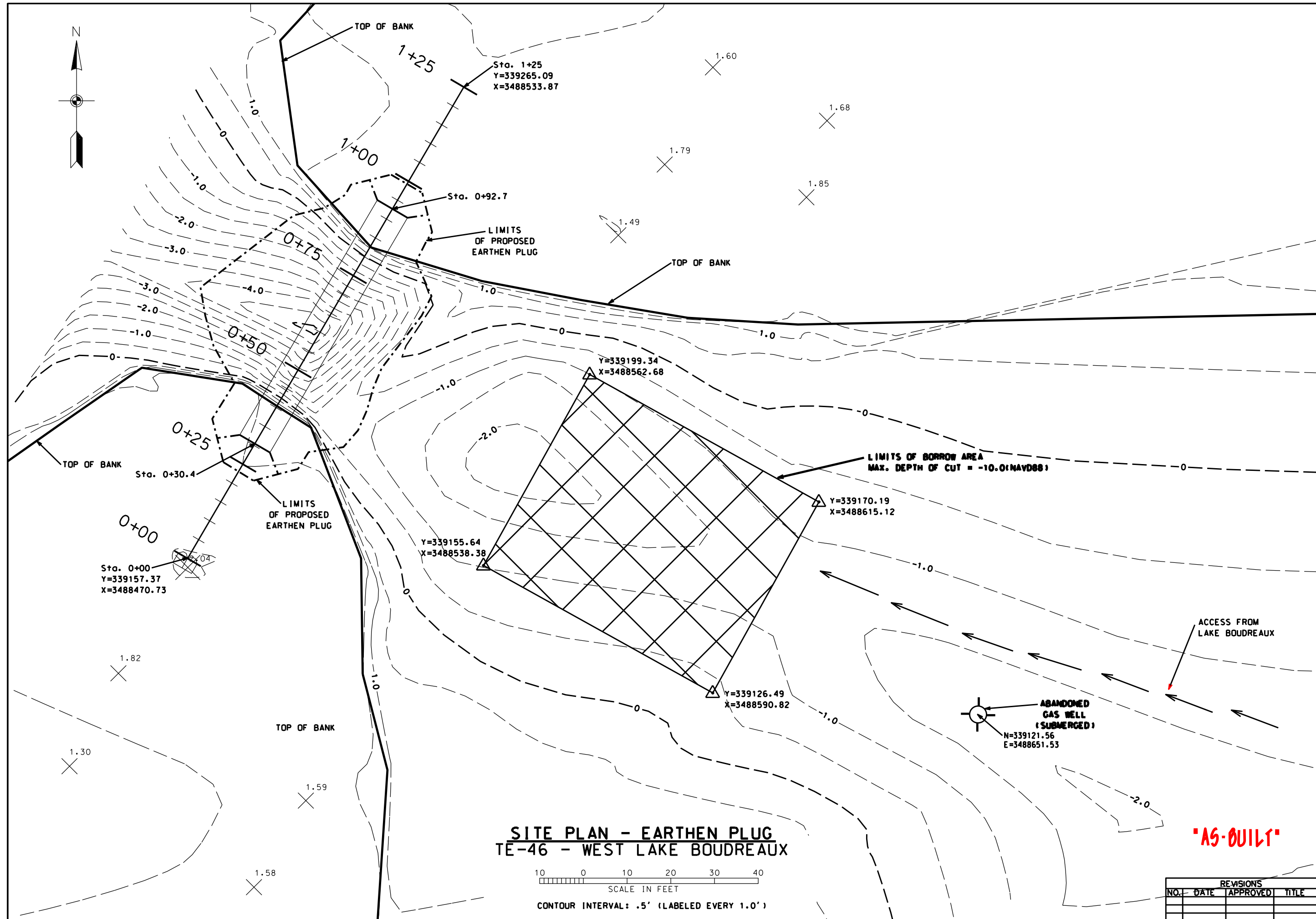
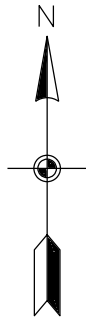
Date	01/05
Designed	R. FAULKNER
Drawn	A.J. GREMILLION
Checked	B.A. STICKER
Approved	E.J. GERBERG III

WARNING SIGN DETAILS  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LA.



File Name	LA346
Drawing Name	LA346045

REVISIONS		
DATE	APPROVED	TITLE



**SITE PLAN - EARTHEN PLUG  
TE-46 - WEST LAKE BOUDREAUX**



CONTOUR INTERVAL: .5' (LABELED EVERY 1.0')

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

**SITE PLAN - EARTHEN PLUG  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA**



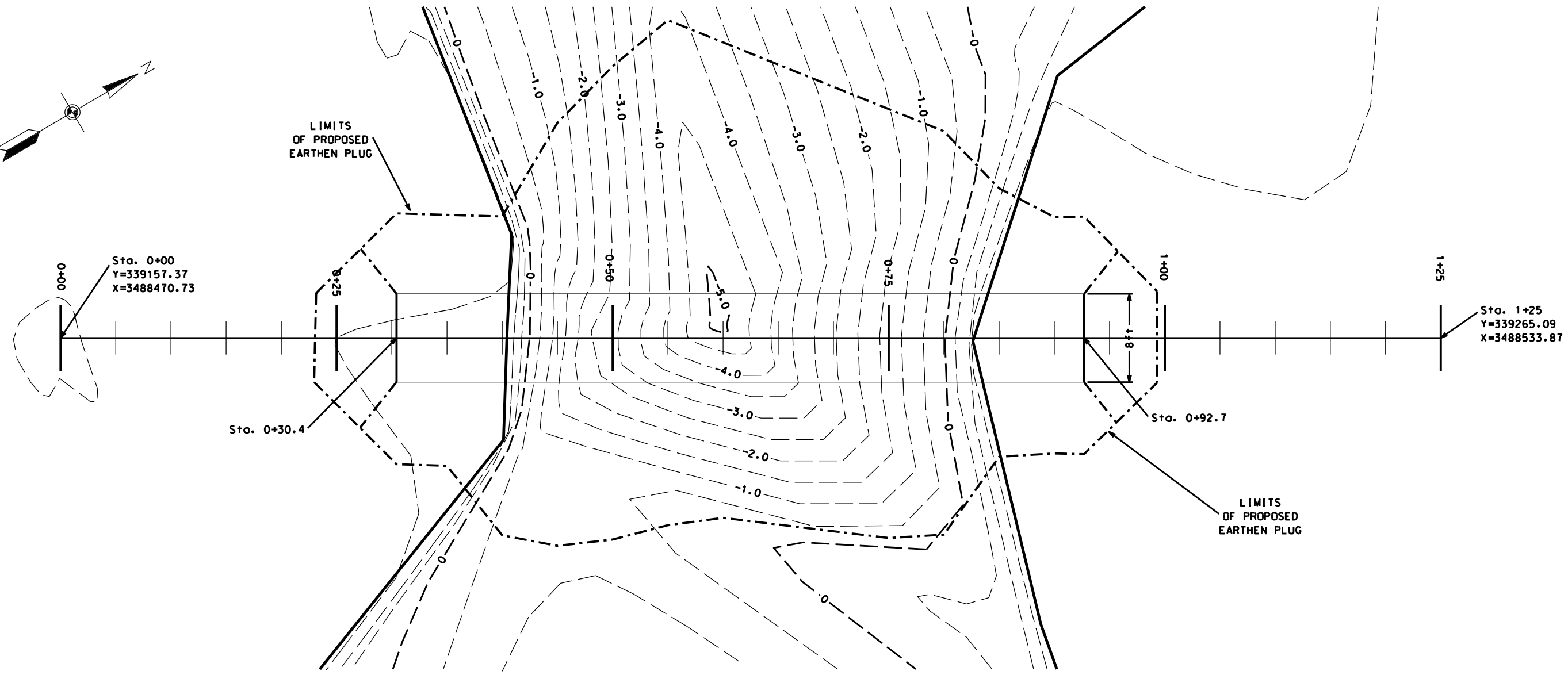
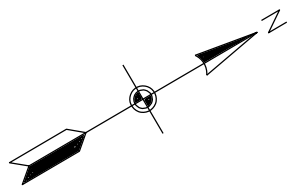
File Name  
LA-346

Drawing Name  
LA346046.dgn

Sheet 46 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE

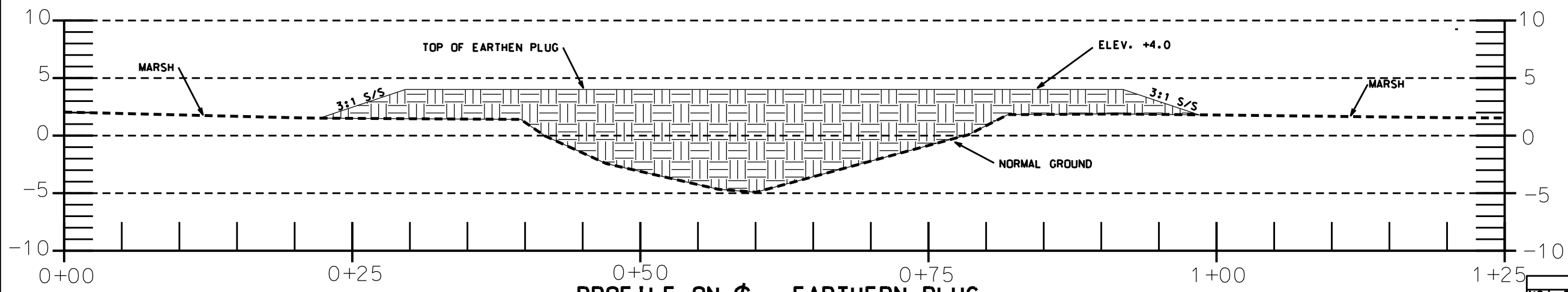




**PLAN - EARTHEN PLUG**  
TE-46 - WEST LAKE BOUDREAU



**"AS-BUILT"**



**PROFILE ON C - EARTHEN PLUG**  
TE-46 - WEST LAKE BOUDREAU

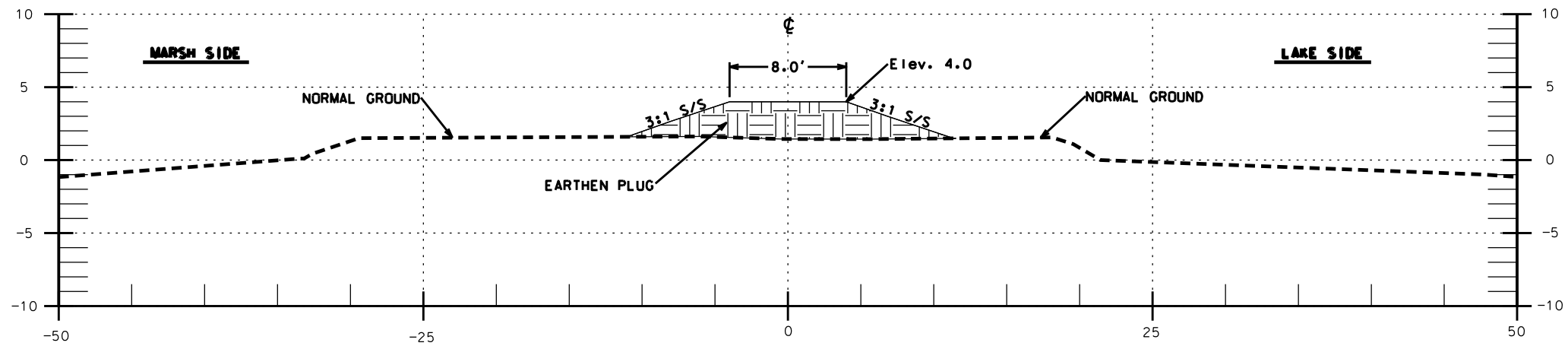
REVISIONS			
NO.	DATE	APPROVED	TITLE

Date	
01/05	R. FAULKNER (Designed)
01/05	A.J. GREMILLON (Drawn)
06/06	B.A. STICKER (Checked)
12/06	E.J. GIERING III (Approved)

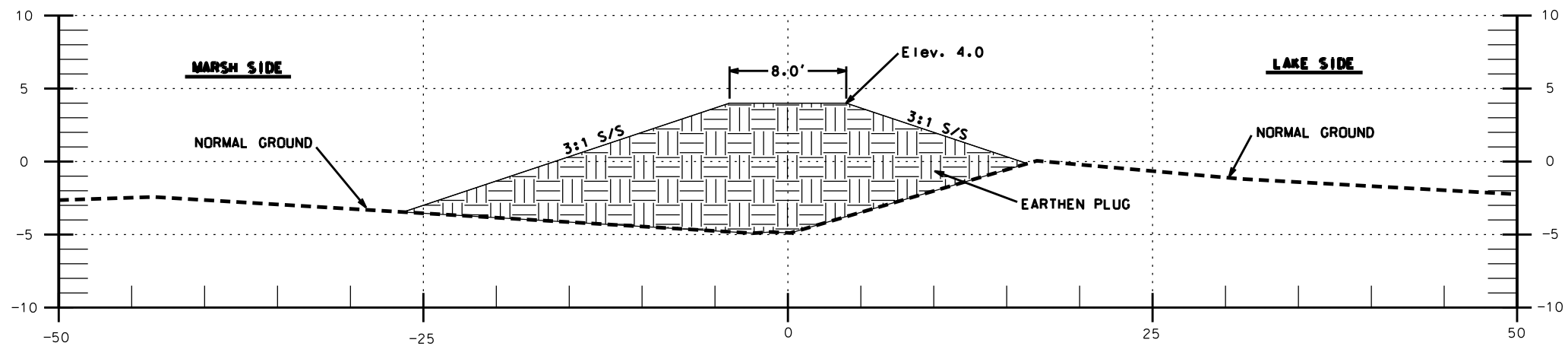
**PLAN & PROFILE - EARTHEN PLUG.**  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



File Name: LA-346  
Drawing Name: LA346047.dgn  
Sheet 47 of 65



**TYPICAL SECTION - OUTSIDE OF CHANNEL  
EARTHEN PLUG**



**TYPICAL SECTION - WITHIN CHANNEL  
EARTHEN PLUG**

**"AS-BUILT"**

Designed	R. FAULKNER	Date	01/05
Drawn	A.J. GREMILLON		01/05
Checked	B.A. STICKER		06/06
Approved	E.J. GIERING III		12/06

**CROSS SECTIONS-EARTHEN PLUG.  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA**



File Name  
LA-346  
Drawing Name  
LA346048.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE

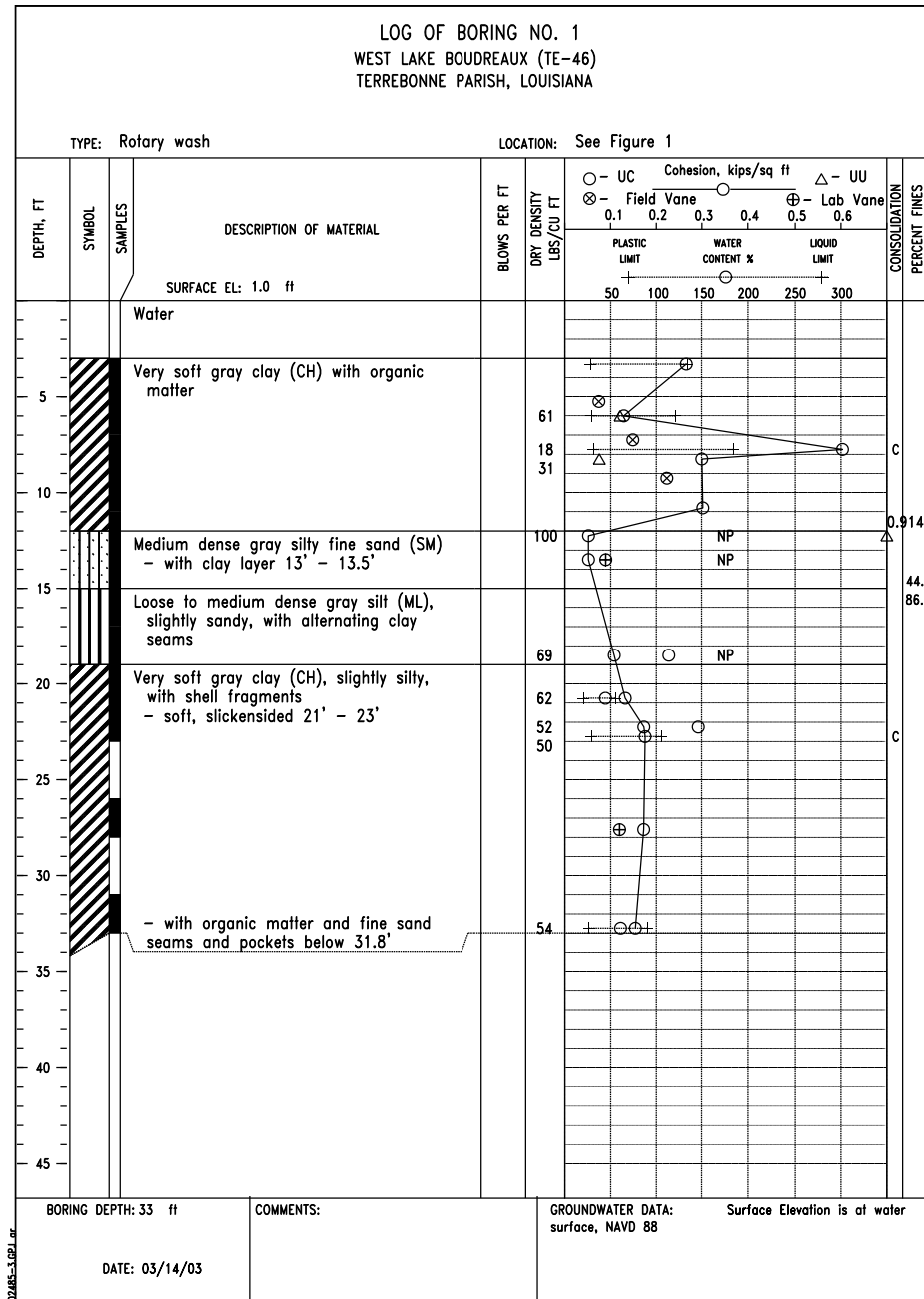


FIGURE A-1

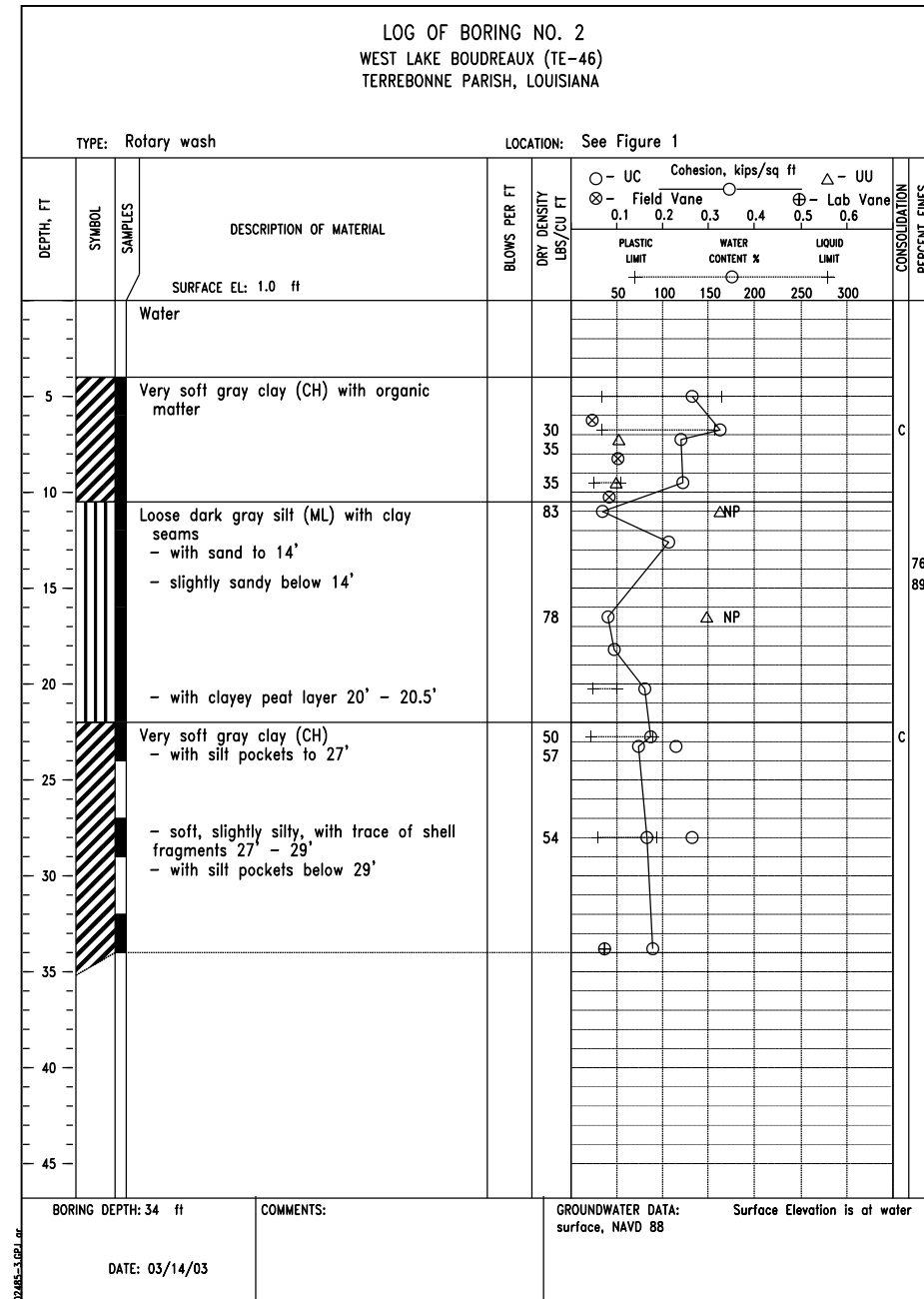


FIGURE A-2

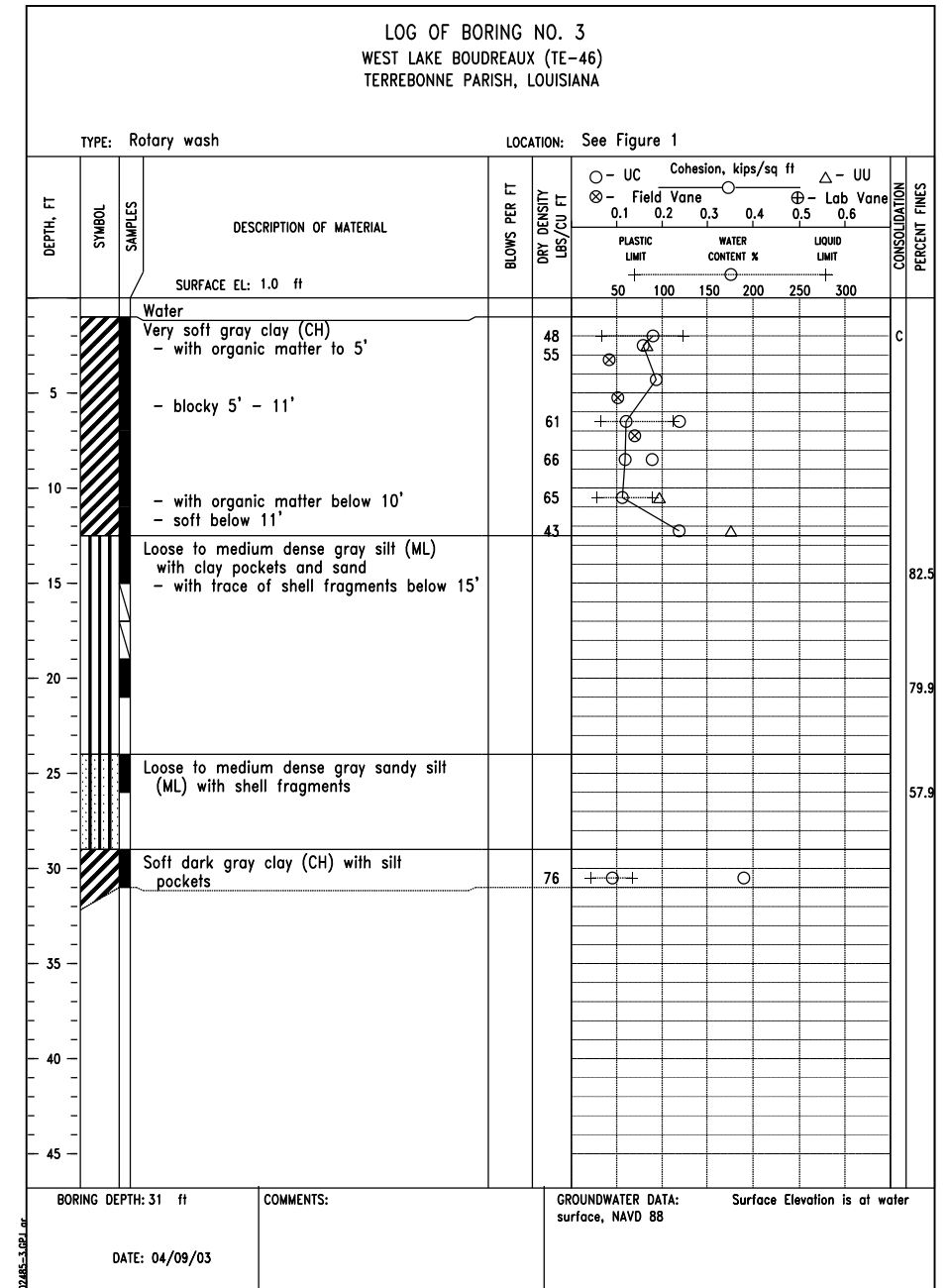


FIGURE A-3

**SOIL BORING LOGS: 1, 2 & 3**  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

DESIGNED: R. FAULKNER      DATE: 01/05  
DRAWN: A.J. GREMLION      DATE: 01/05  
CHECKED: B.A. STICKER      DATE: 06/06  
APPROVED: E.J. GIERING III      DATE: 12/06



"AS-BUILT"

FILE NAME: LA-346  
DRAWING NAME: LA346049.dgn  
SHEET 49 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE



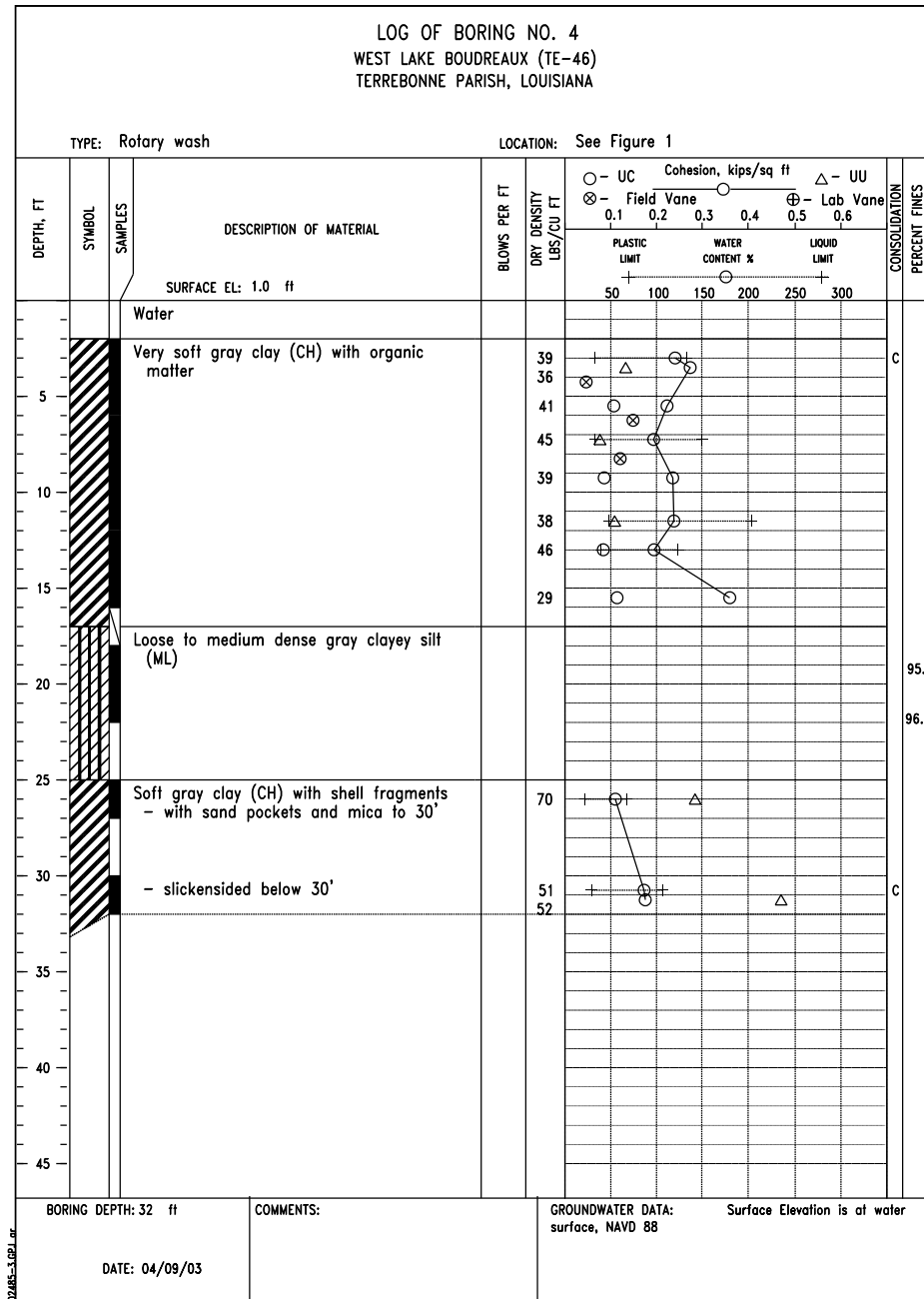


FIGURE A-4

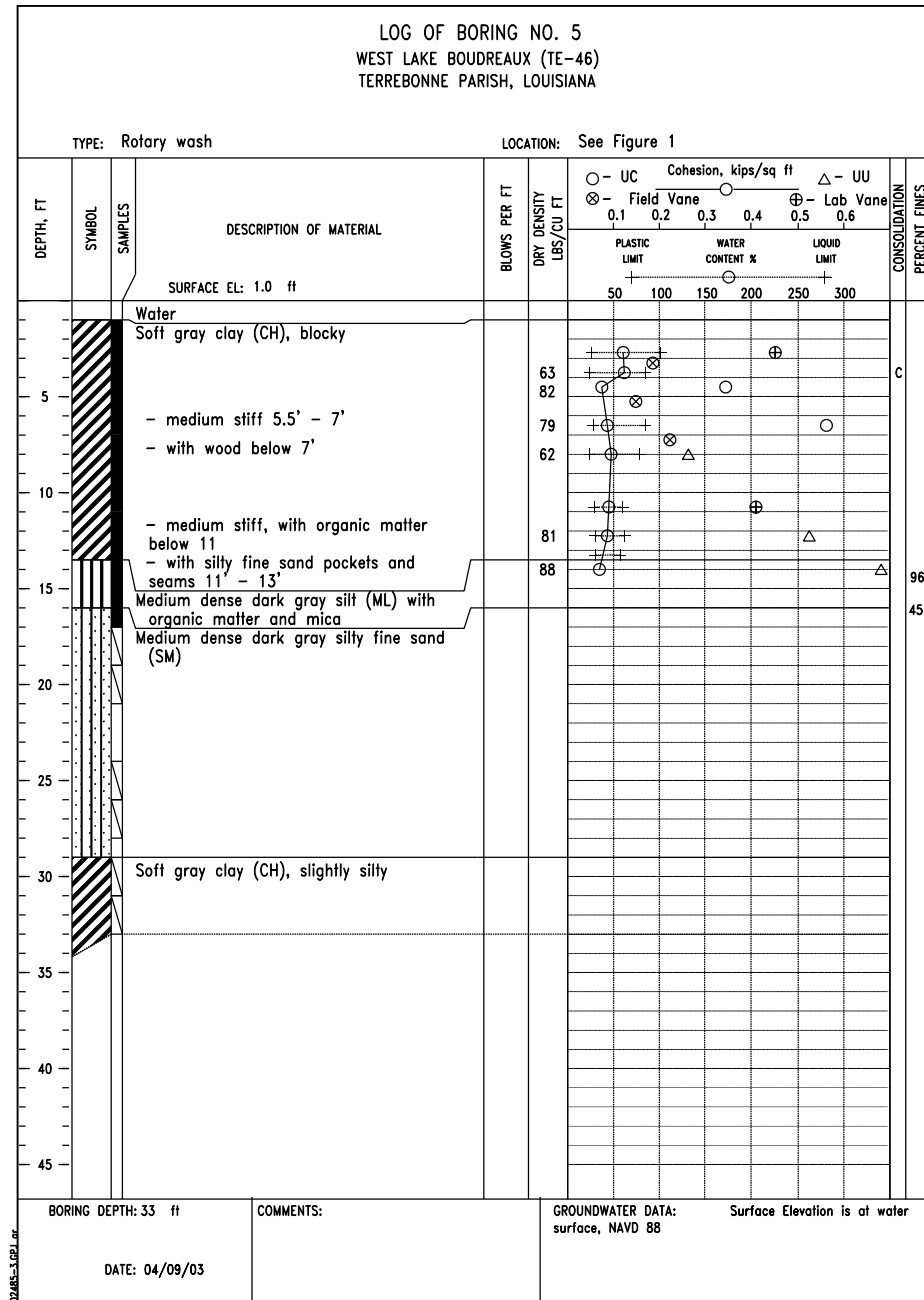


FIGURE A-5

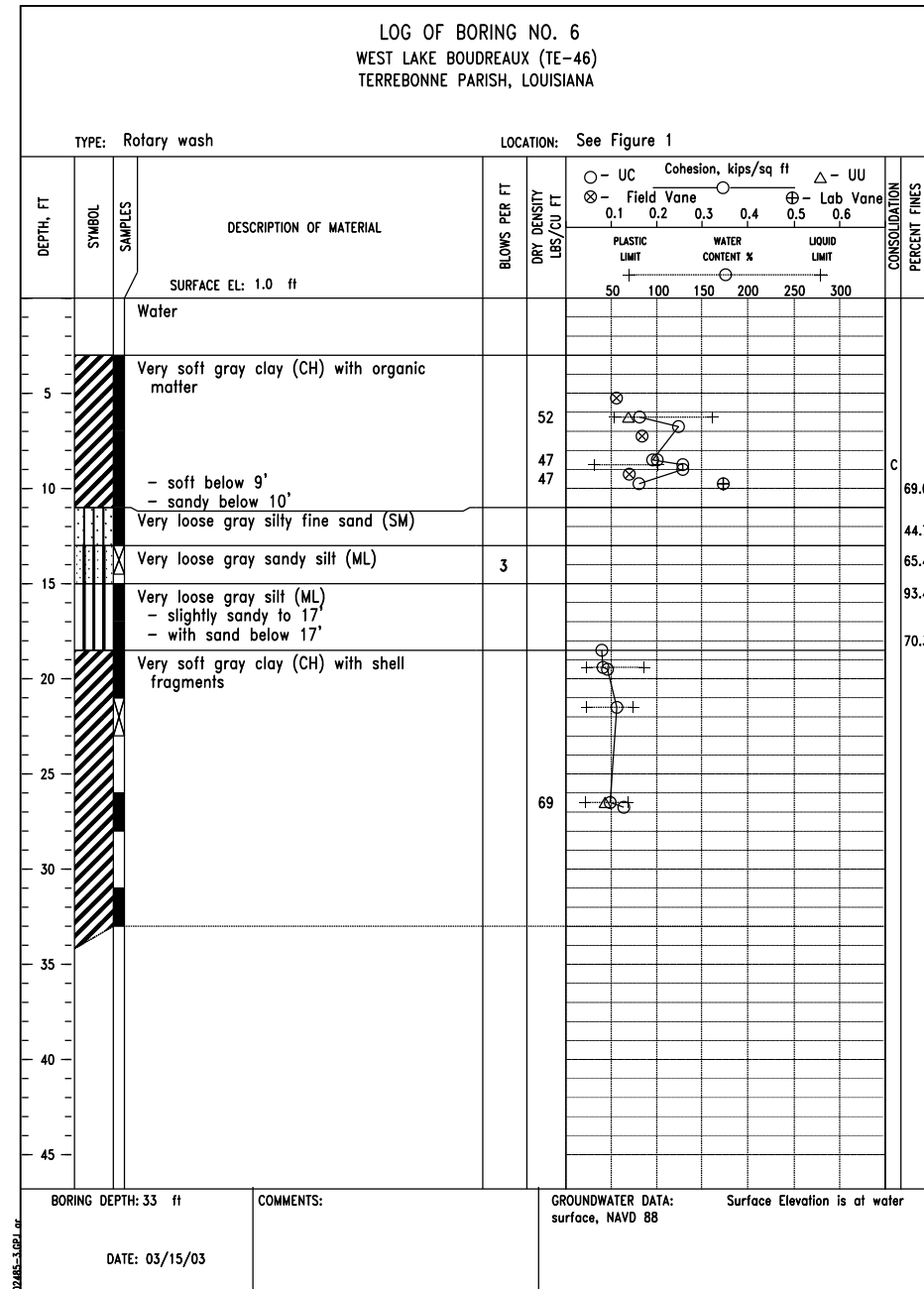


FIGURE A-6

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06

**SOIL BORING LOGS: 4, 5 & 6**  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



"AS-BUILT"

FILE NAME	LA-346		
DRAWING NAME	LA346050.dgn		
REVISIONS			
NO.	DATE	APPROVED	TITLE

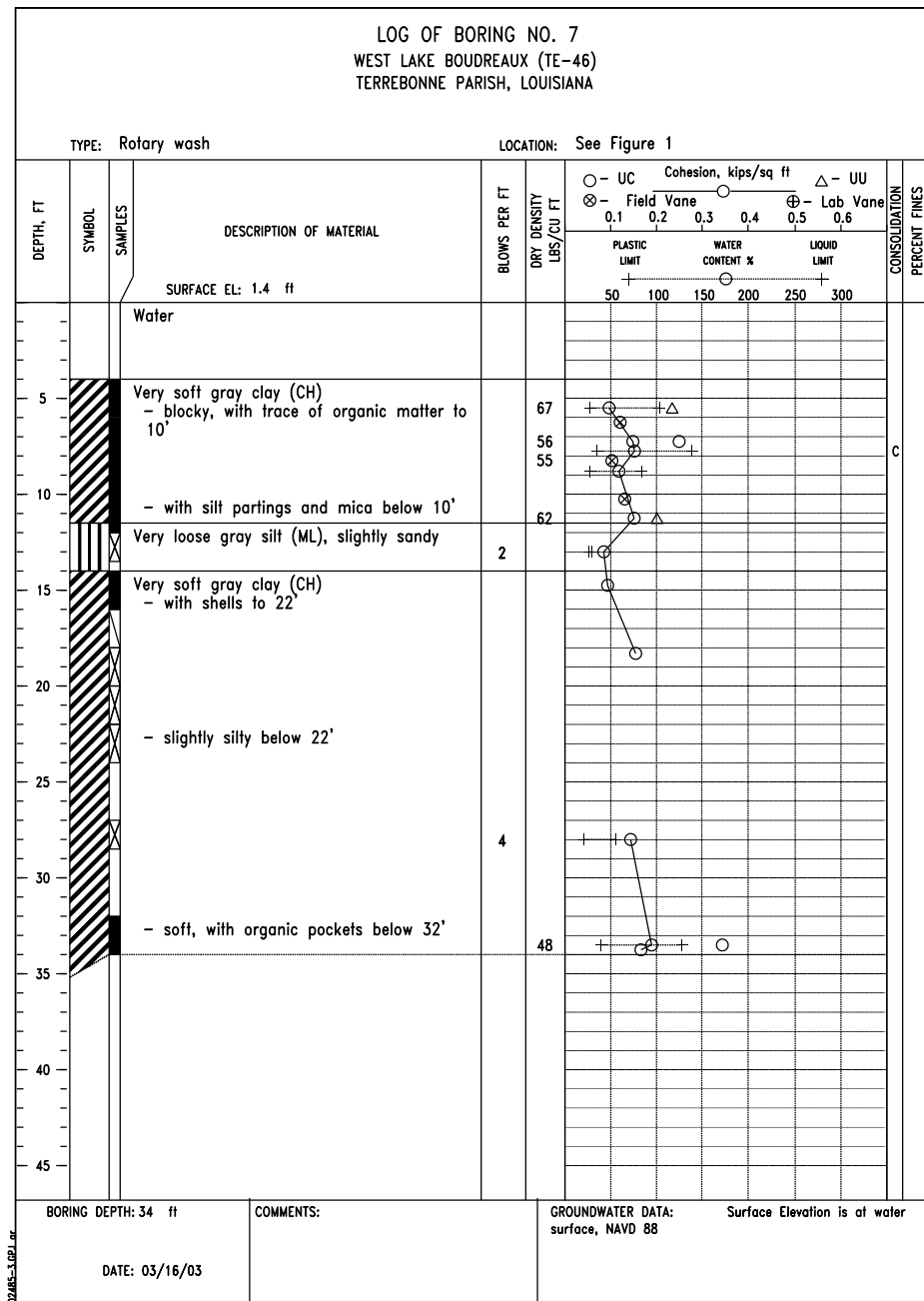


FIGURE A-7

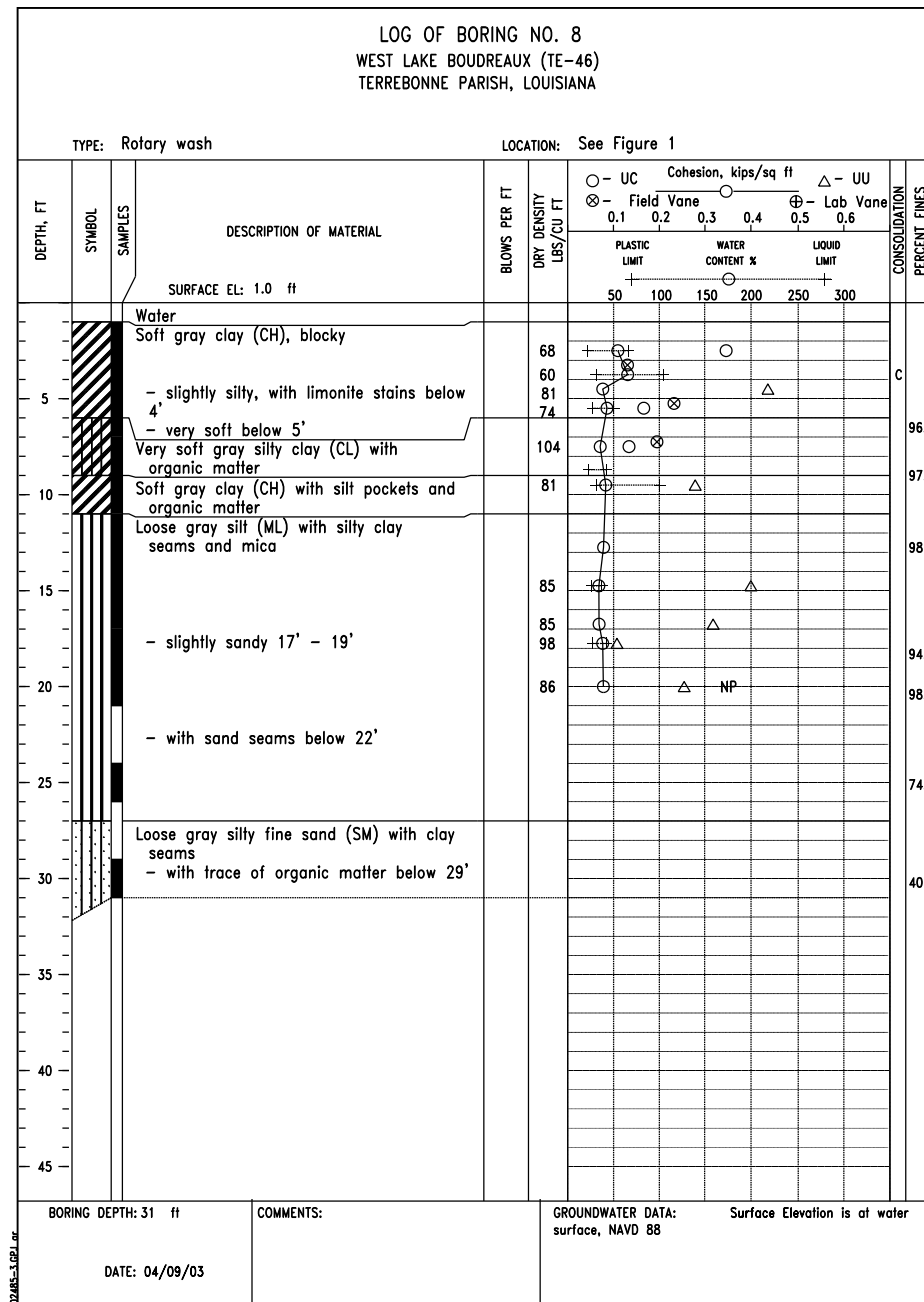


FIGURE A-8

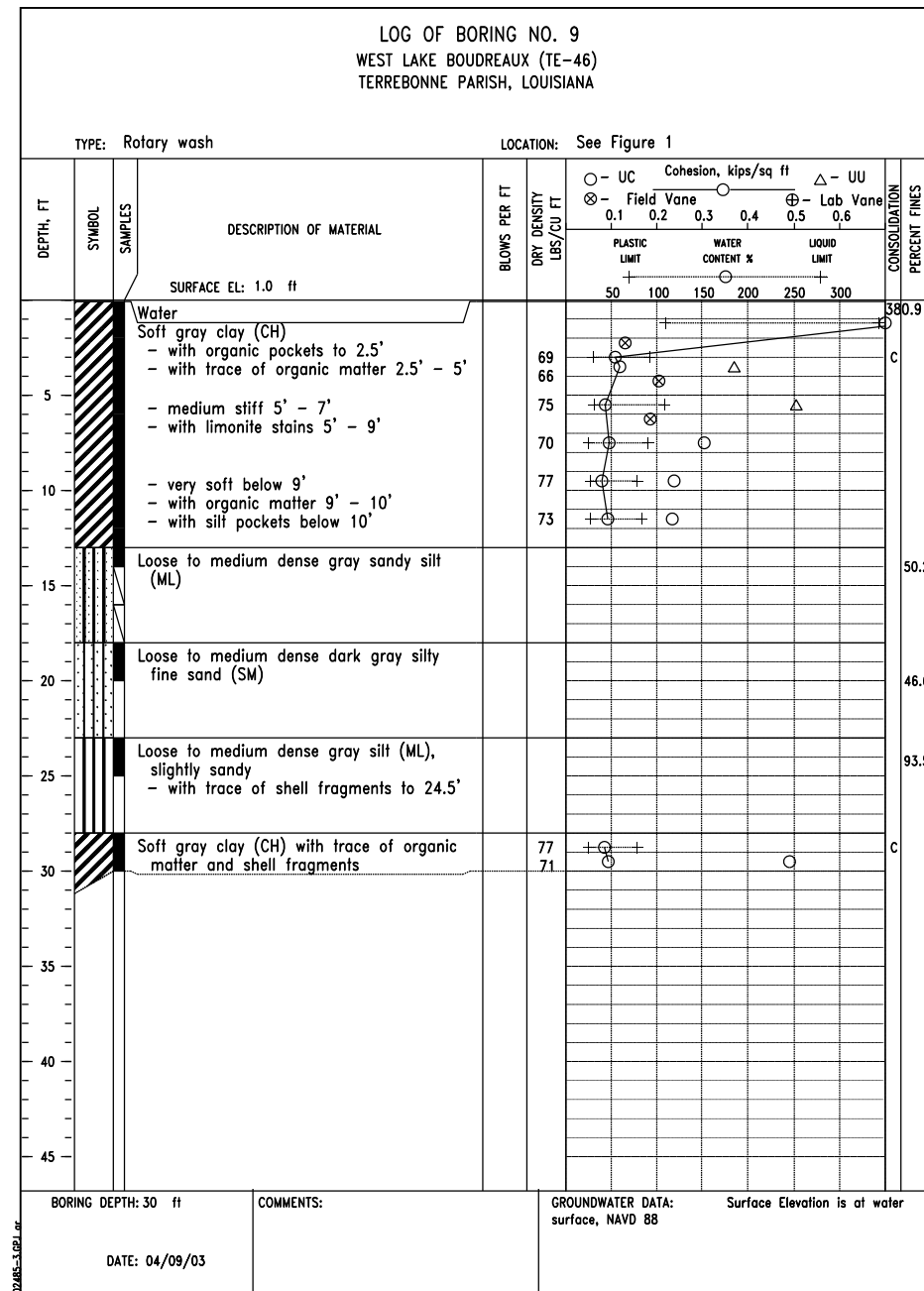
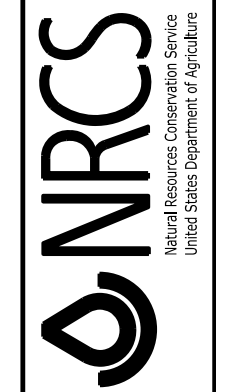


FIGURE A-9

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMILLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06

SOIL BORING LOGS: 7, 8 & 9  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME	LA-346
DRAWING NAME	LA346051.dgn
SHEET	51 of 65

"AS-BUILT"

REVISIONS			
NO.	DATE	APPROVED	TITLE

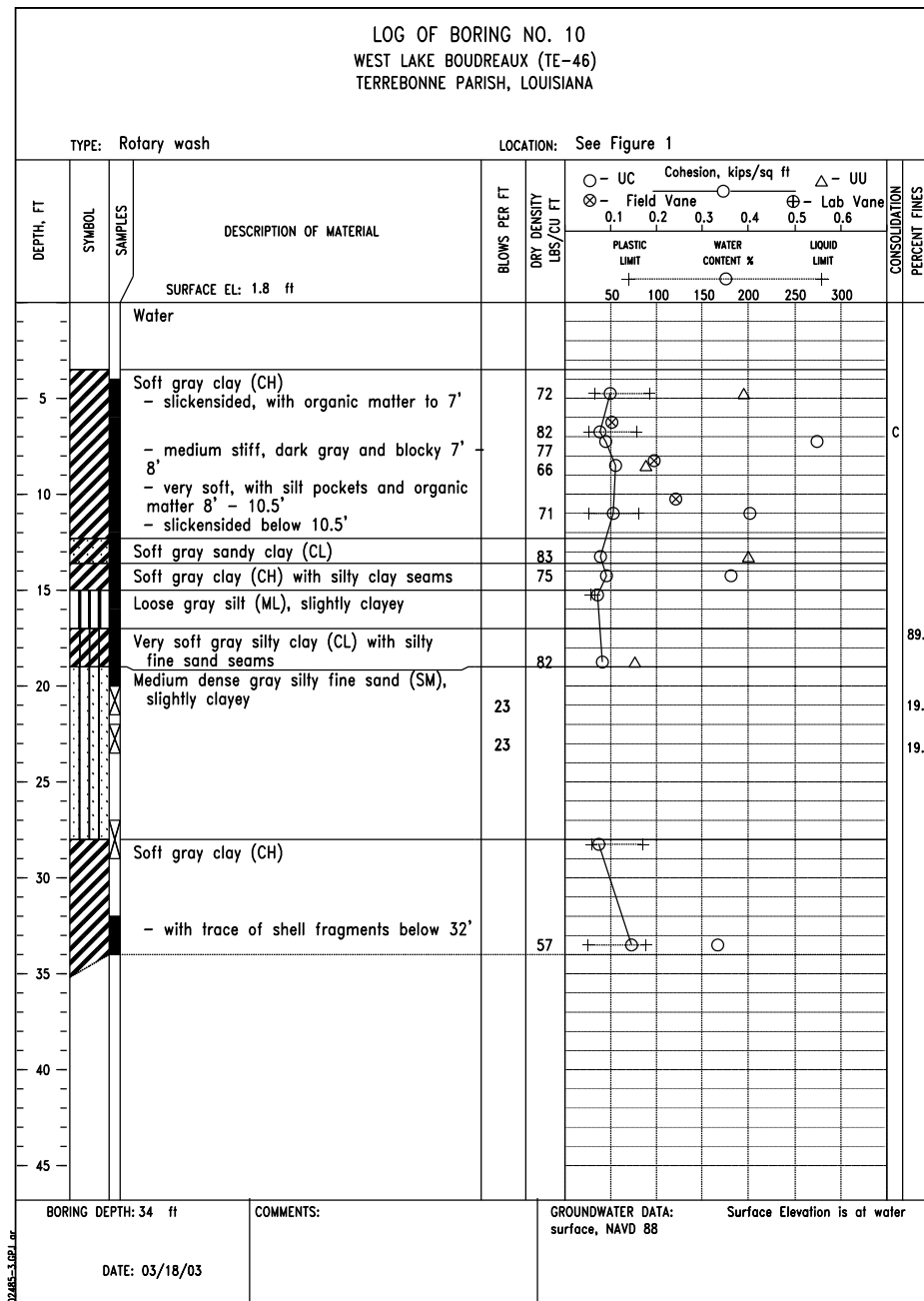


FIGURE A-10

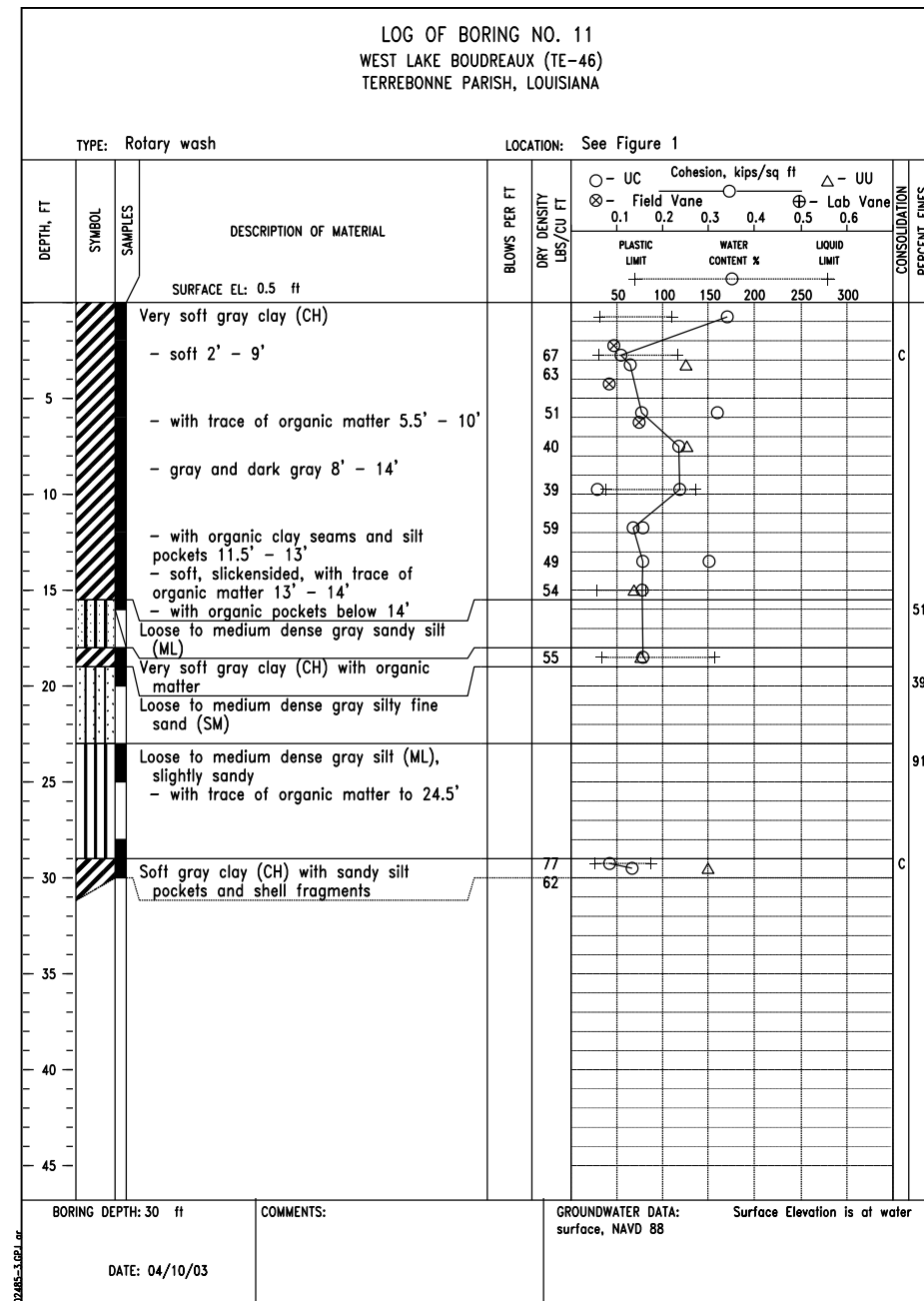


FIGURE A-11

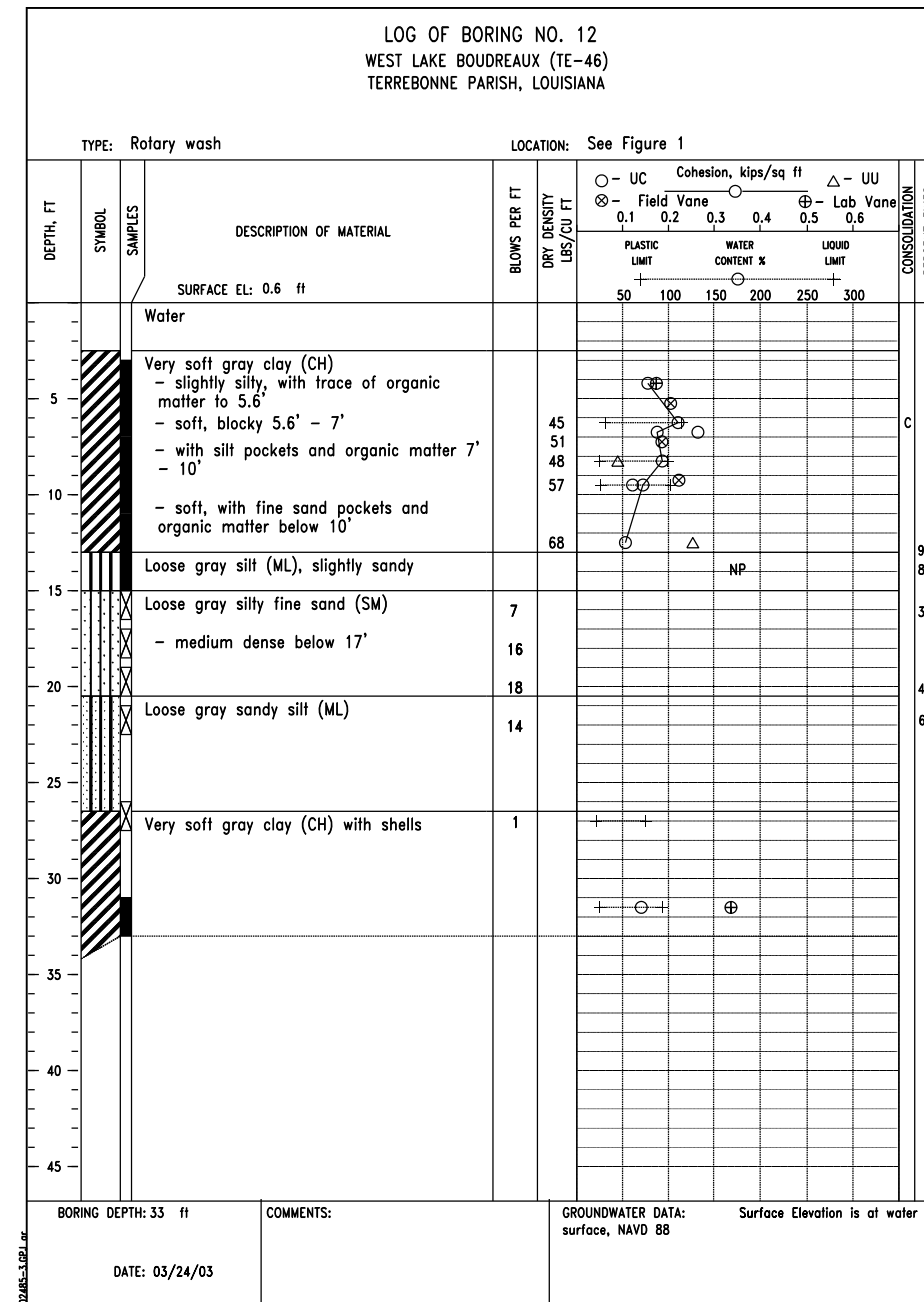


FIGURE A-12

DESIGNED: R. FAULKNER  
DRAWN: A.J. GREMLION  
CHECKED: B.A. STICKER  
APPROVED: E.J. GERING III

DATE: 01/05  
01/05  
06/06  
12/06

SOIL BORING LOGS: 10, 11 & 12  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME: LA-346  
DRAWING NAME: LA346052.dgn  
SHEET 52 of 65

"AS-BUILT"

REVISIONS			
NO.	DATE	APPROVED	TITLE



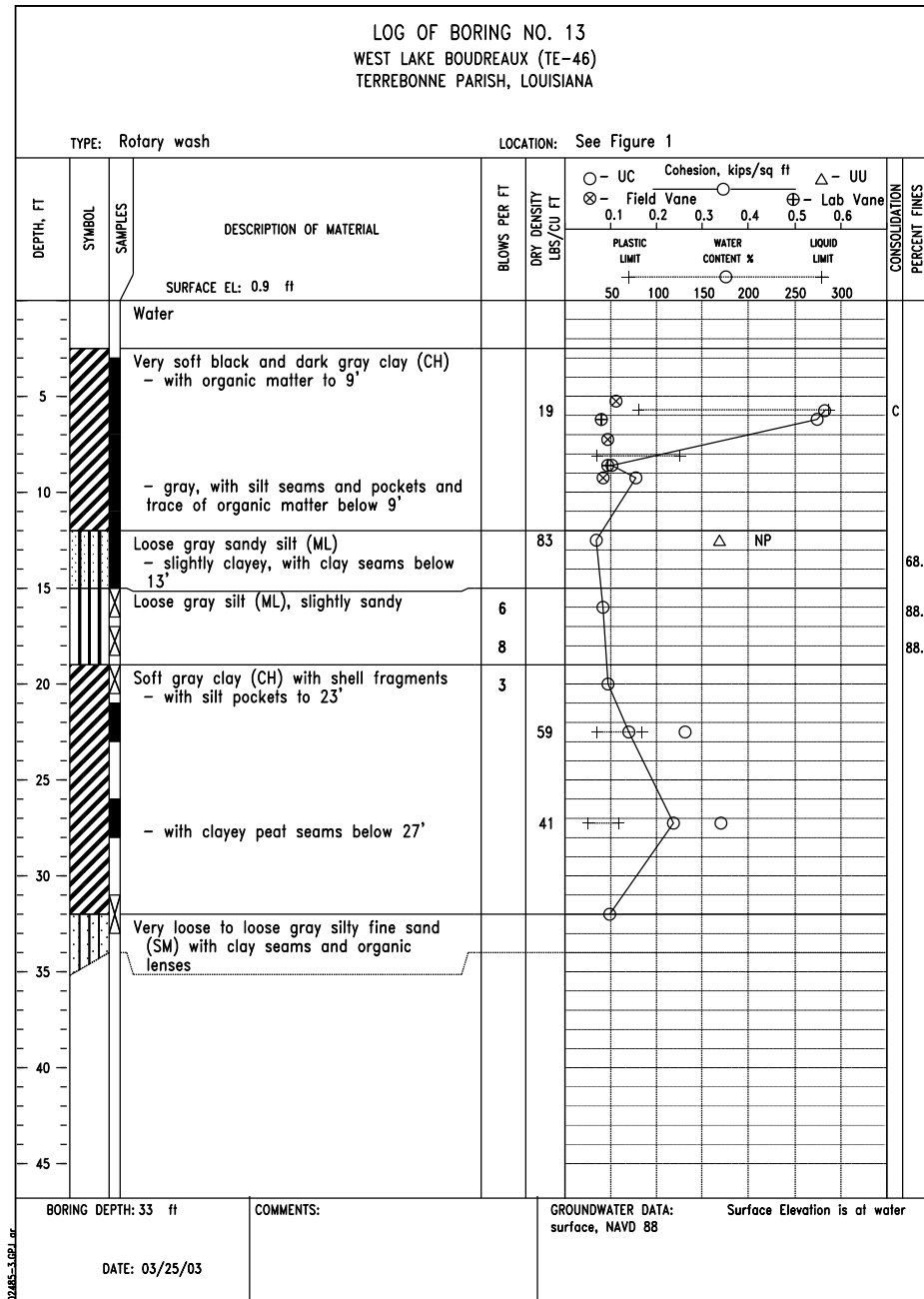


FIGURE A-13

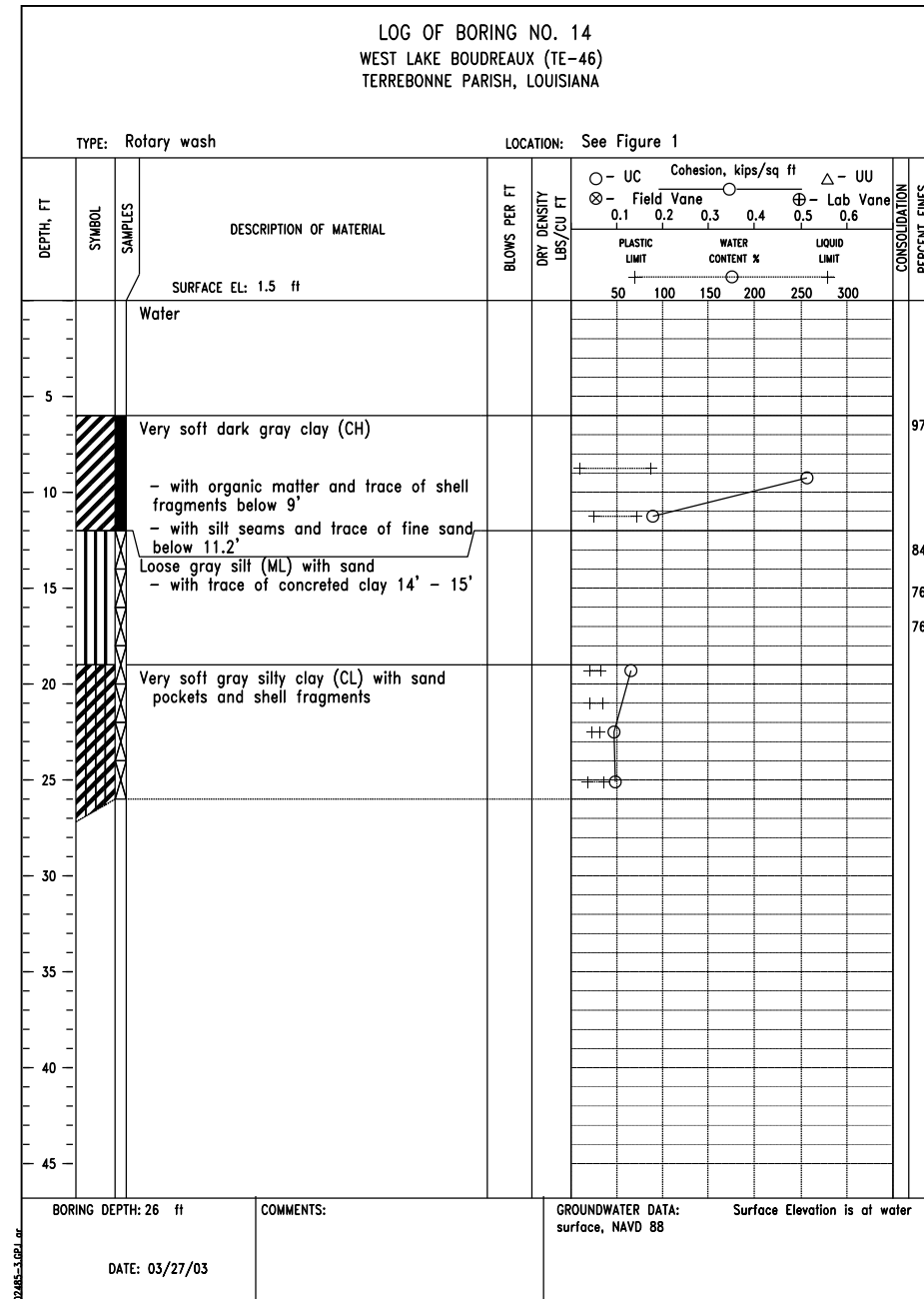


FIGURE A-14

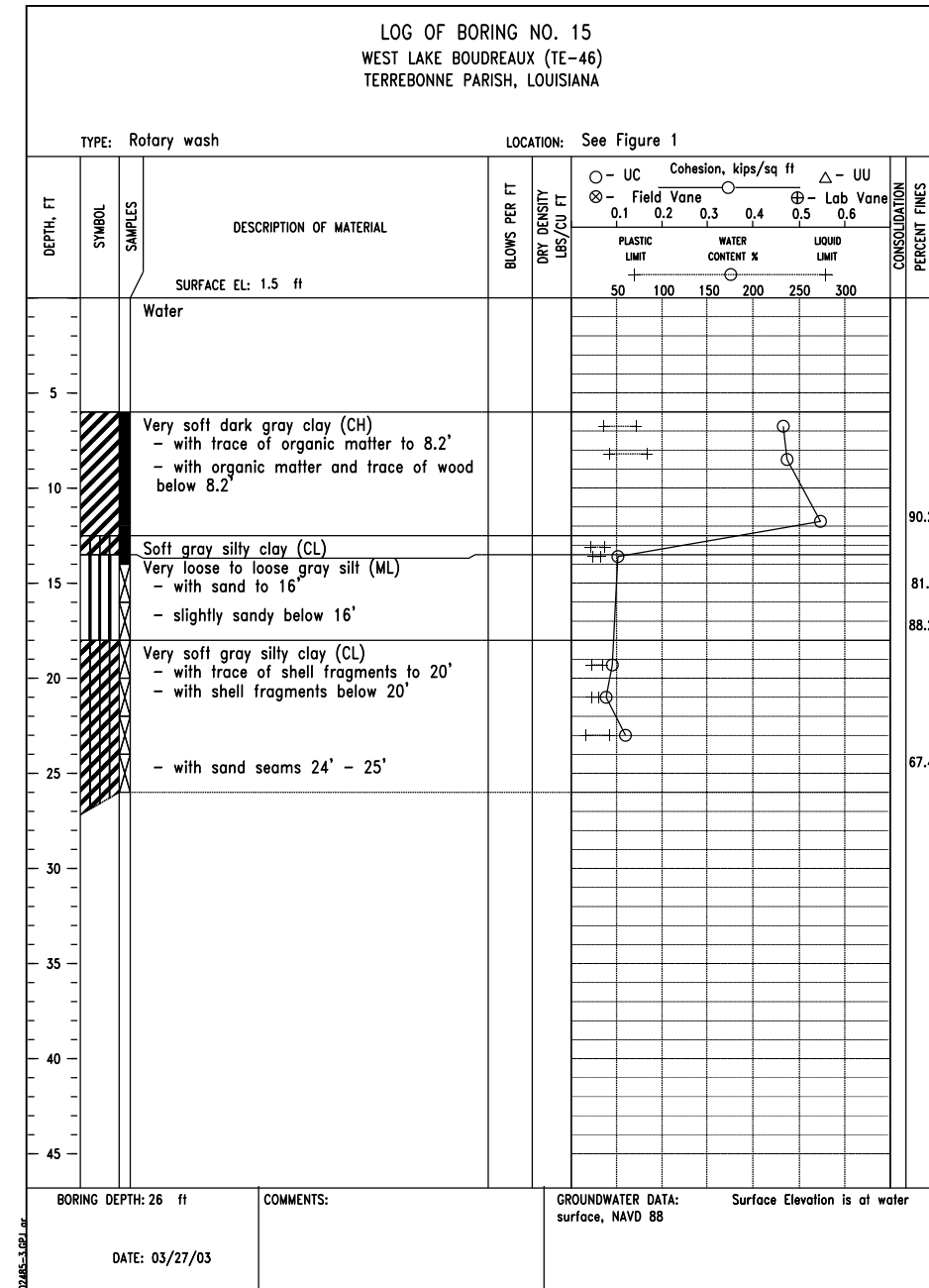


FIGURE A-15

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMILLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06

SOIL BORING LOGS: 13, 14 & 15  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



"AS-BUILT"

FILE NAME  
LA-346

DRAWING NAME  
LA346053.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE

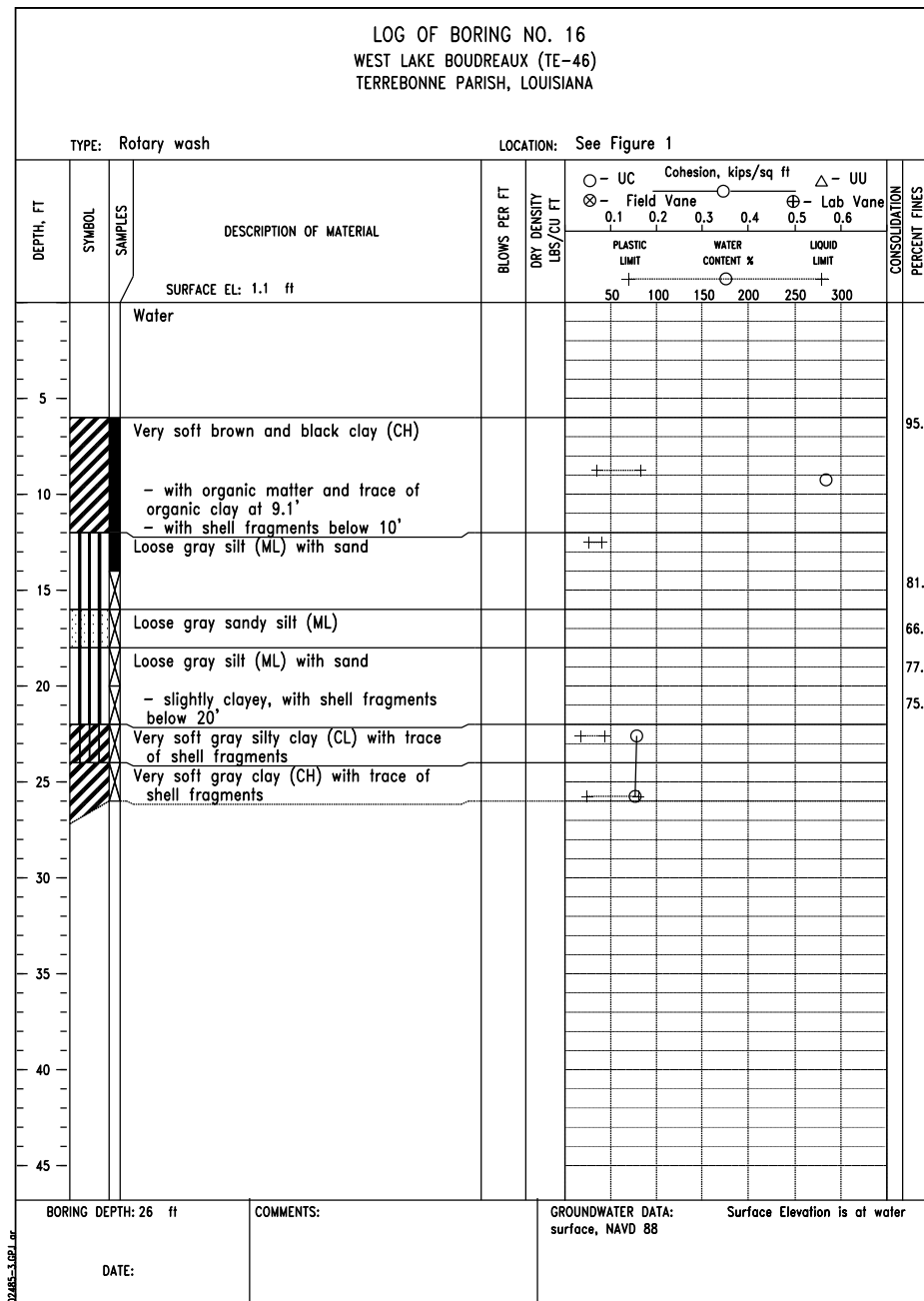


FIGURE A-16

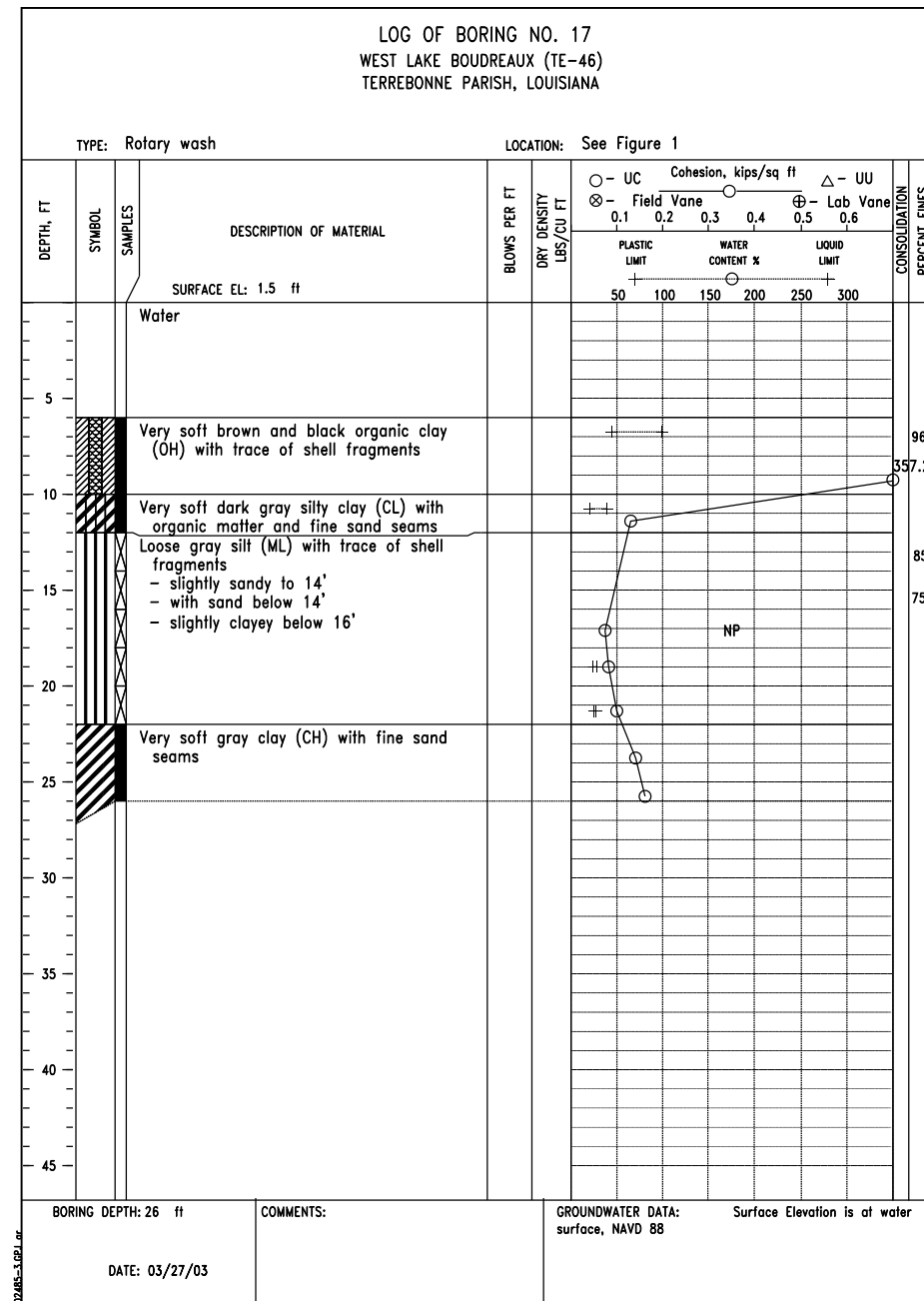


FIGURE A-17

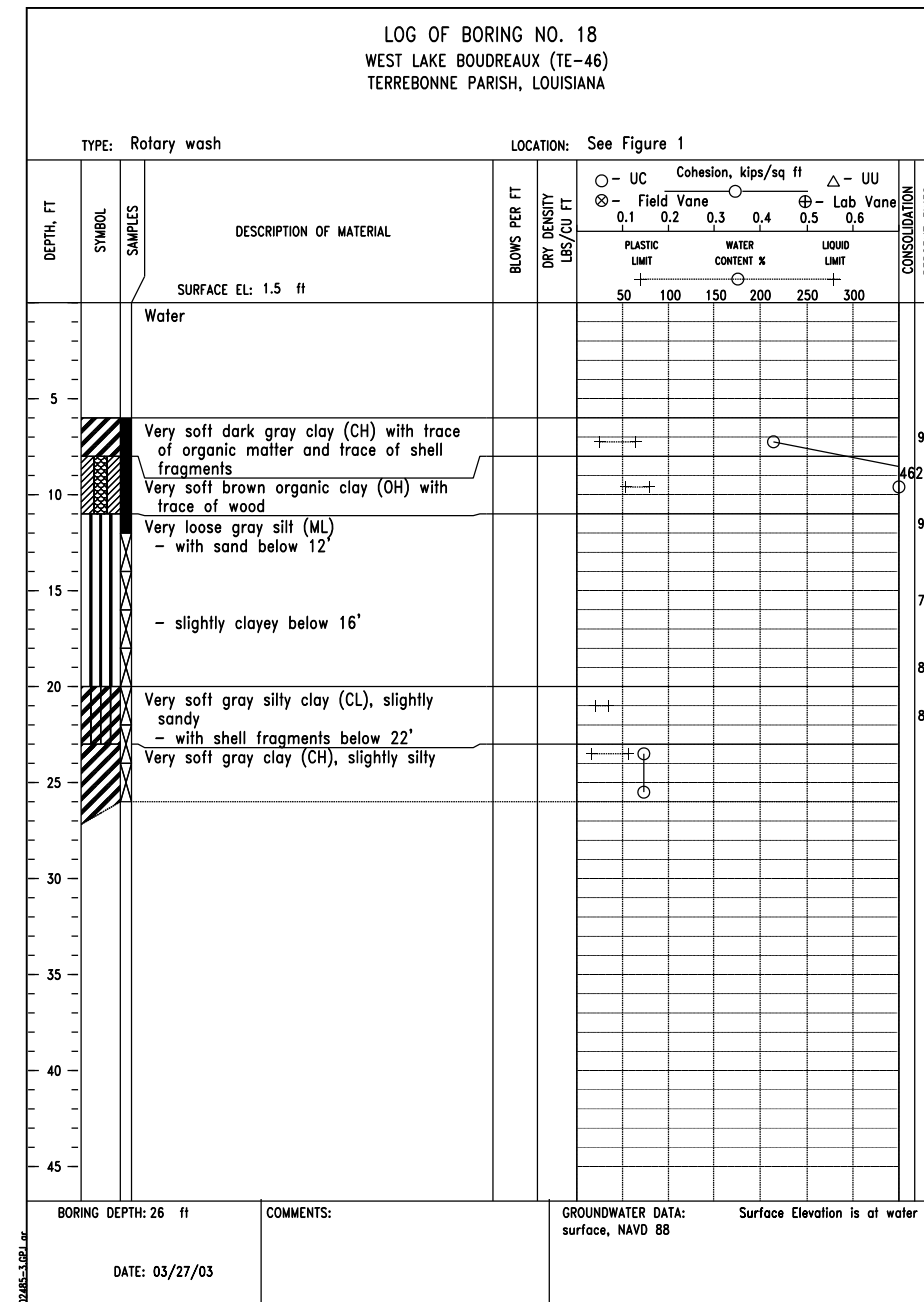


FIGURE A-18

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06

SOIL BORING LOGS: 16, 17 & 18  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME	LA-346
DRAWING NAME	LA346054.dgn
SHEET	54 of 65

"AS-BUILT"

REVISIONS			
NO.	DATE	APPROVED	TITLE

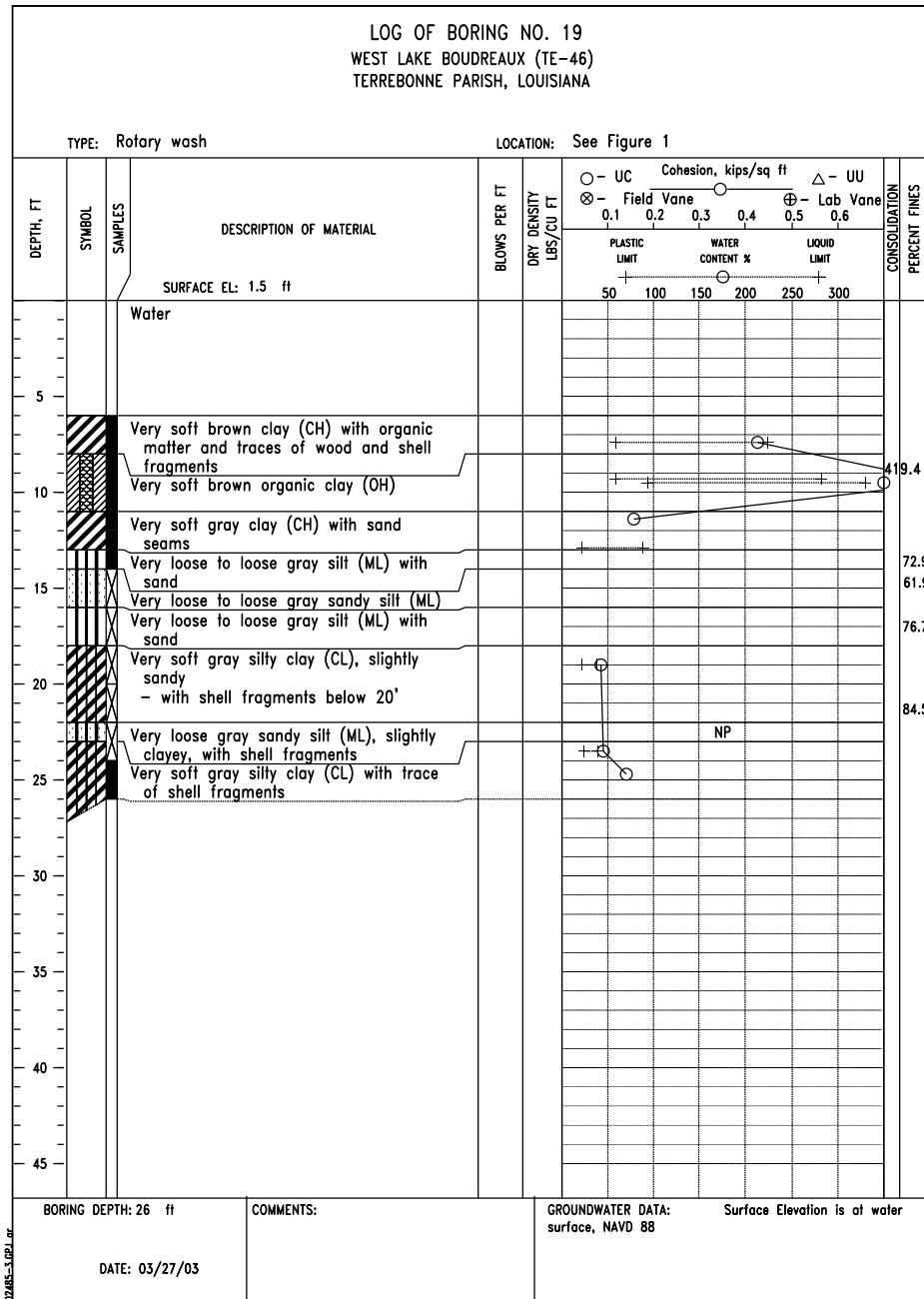


FIGURE A-19

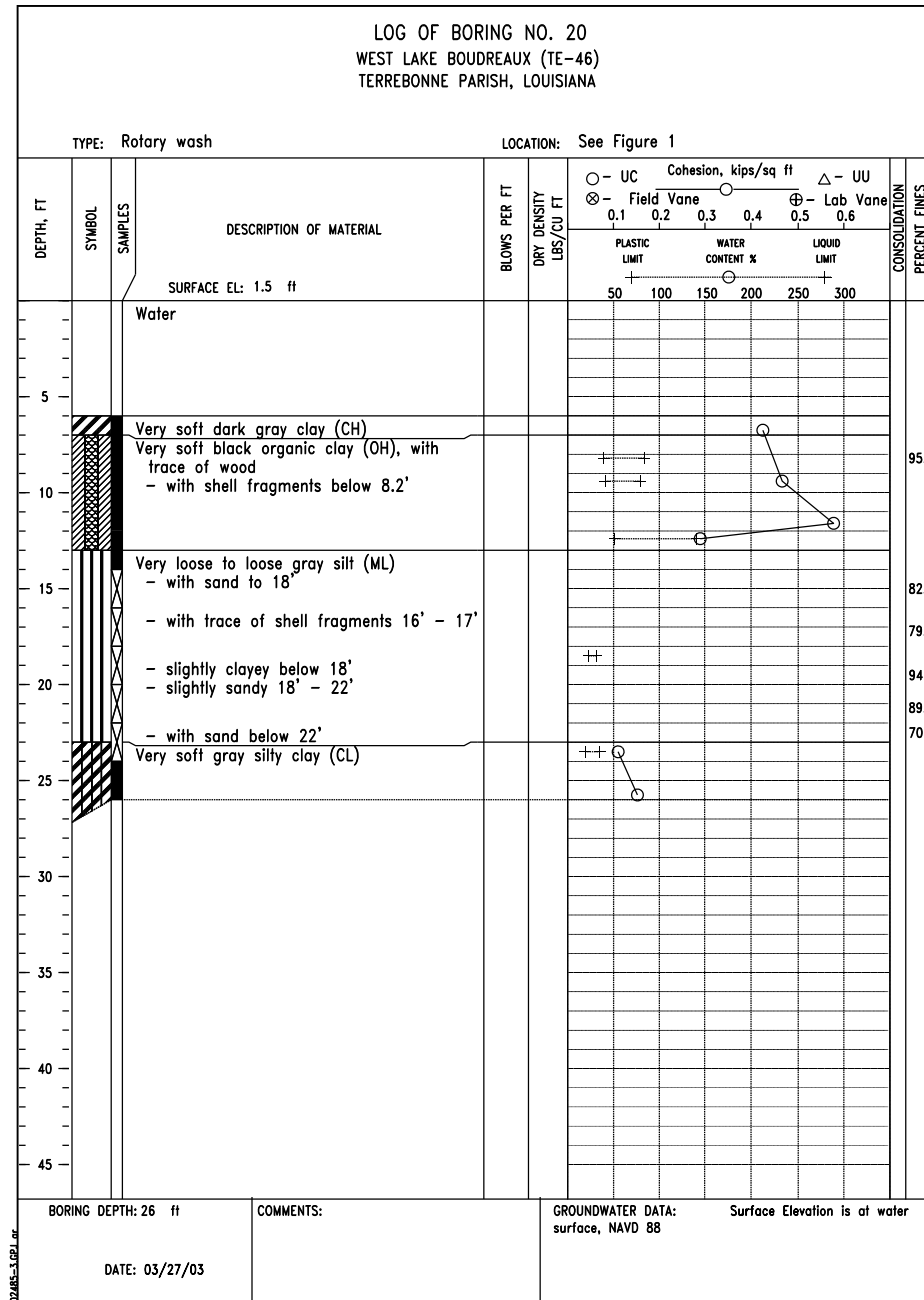


FIGURE A-20

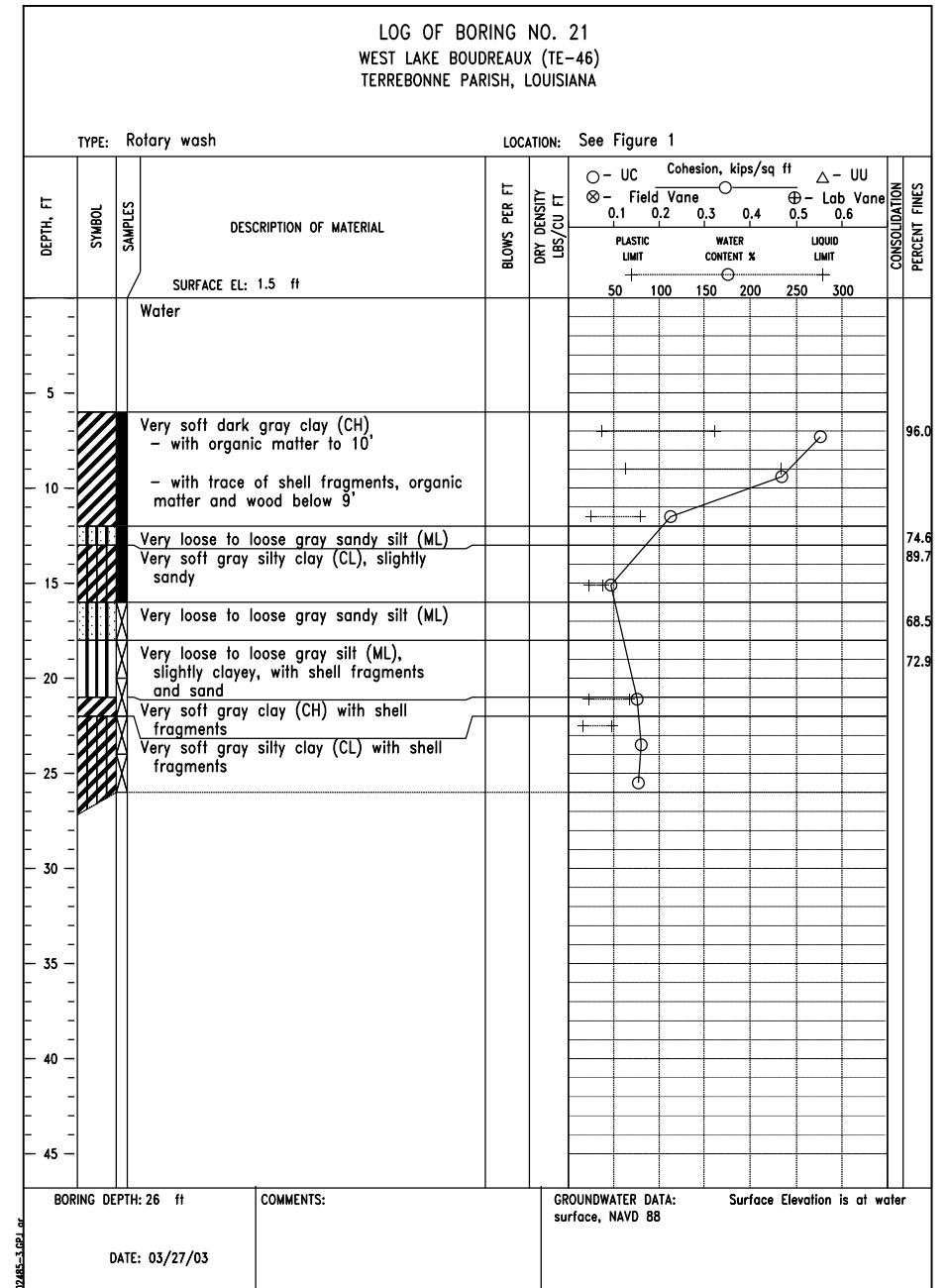


FIGURE A-21

SOIL BORING LOGS: 19, 20 & 21  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06



"AS-BUILT"

FILE NAME  
LA-346

DRAWING NAME  
LA346055.dgn

SHEET 55 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE



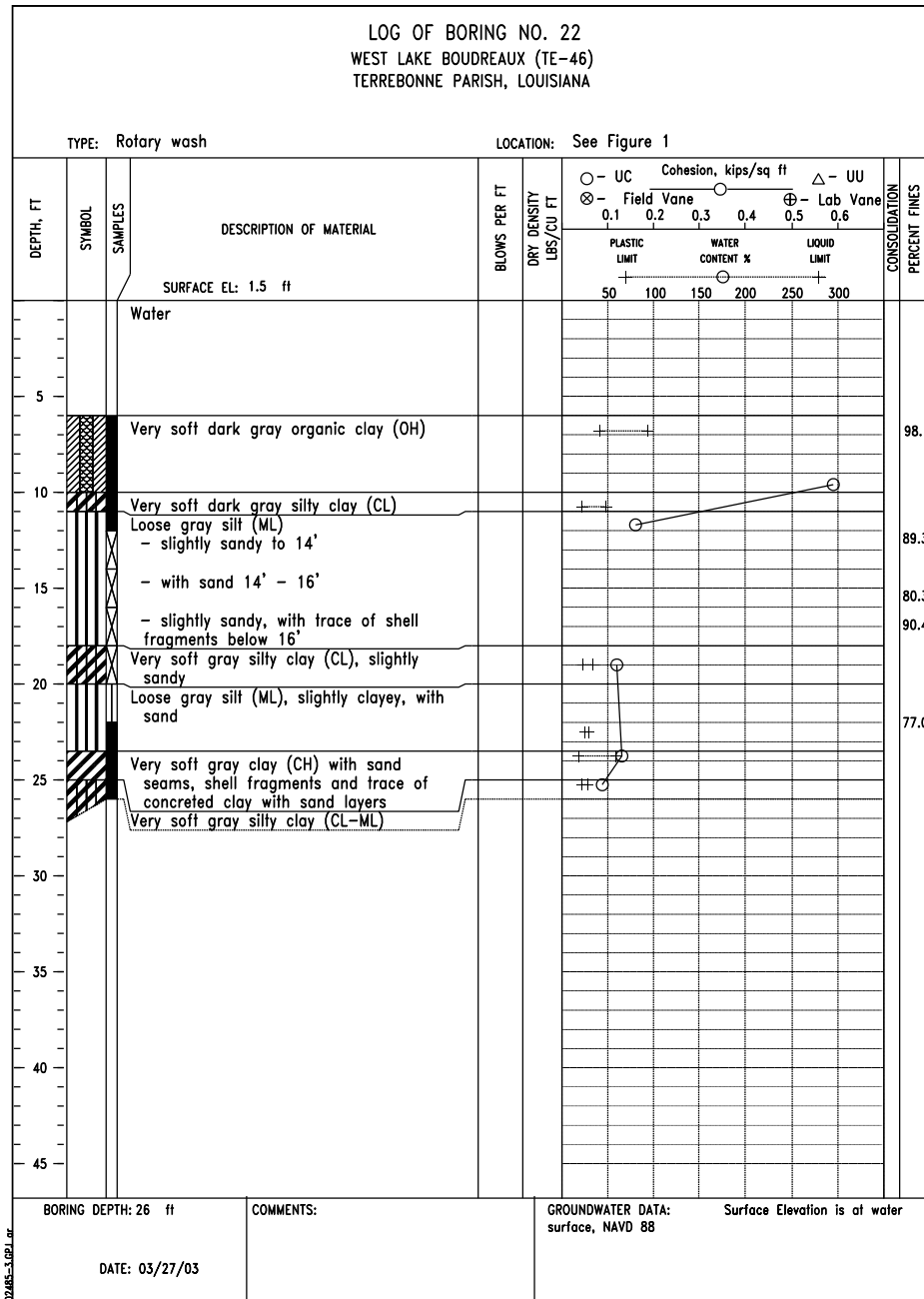


FIGURE A-22

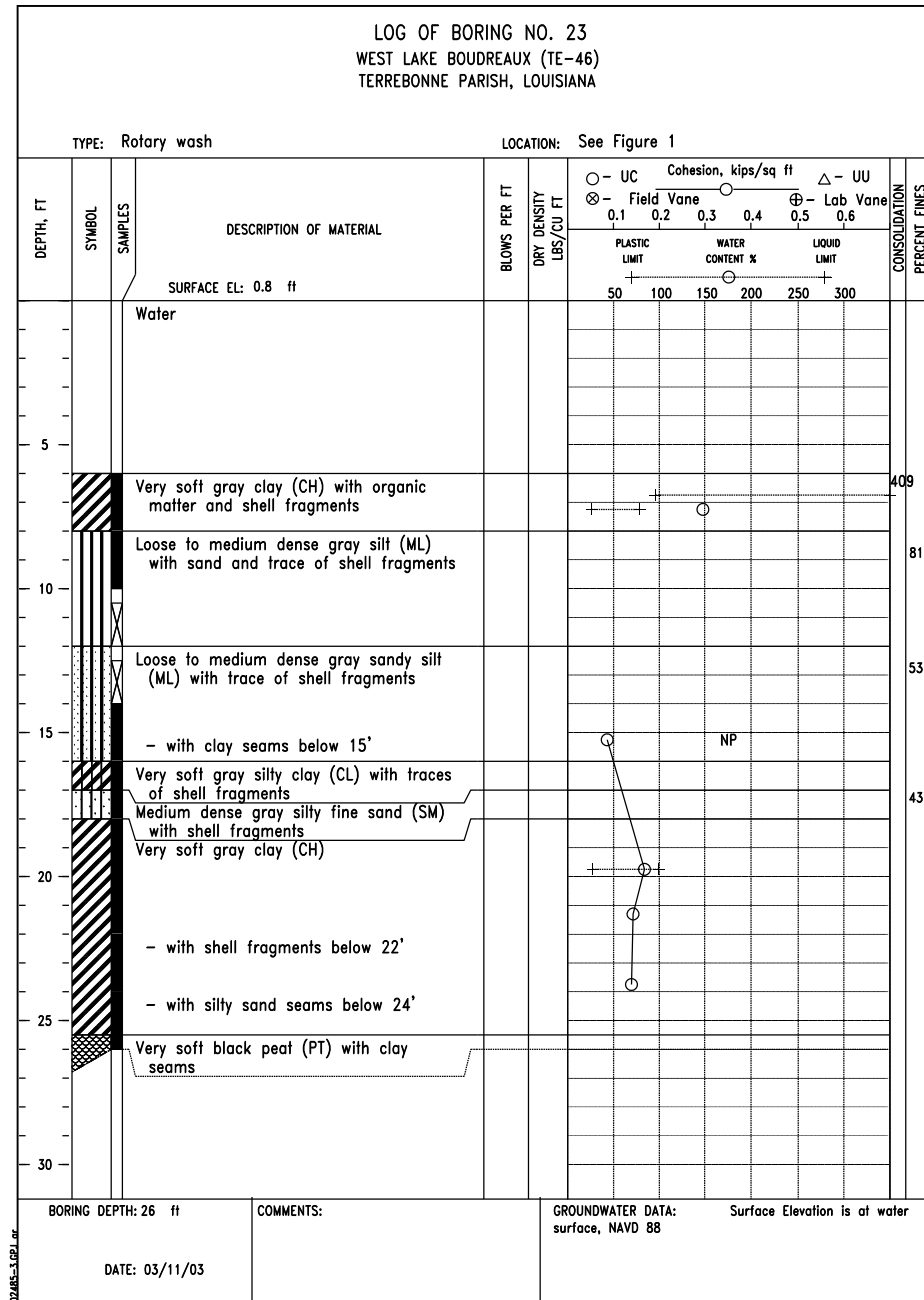


FIGURE A-23

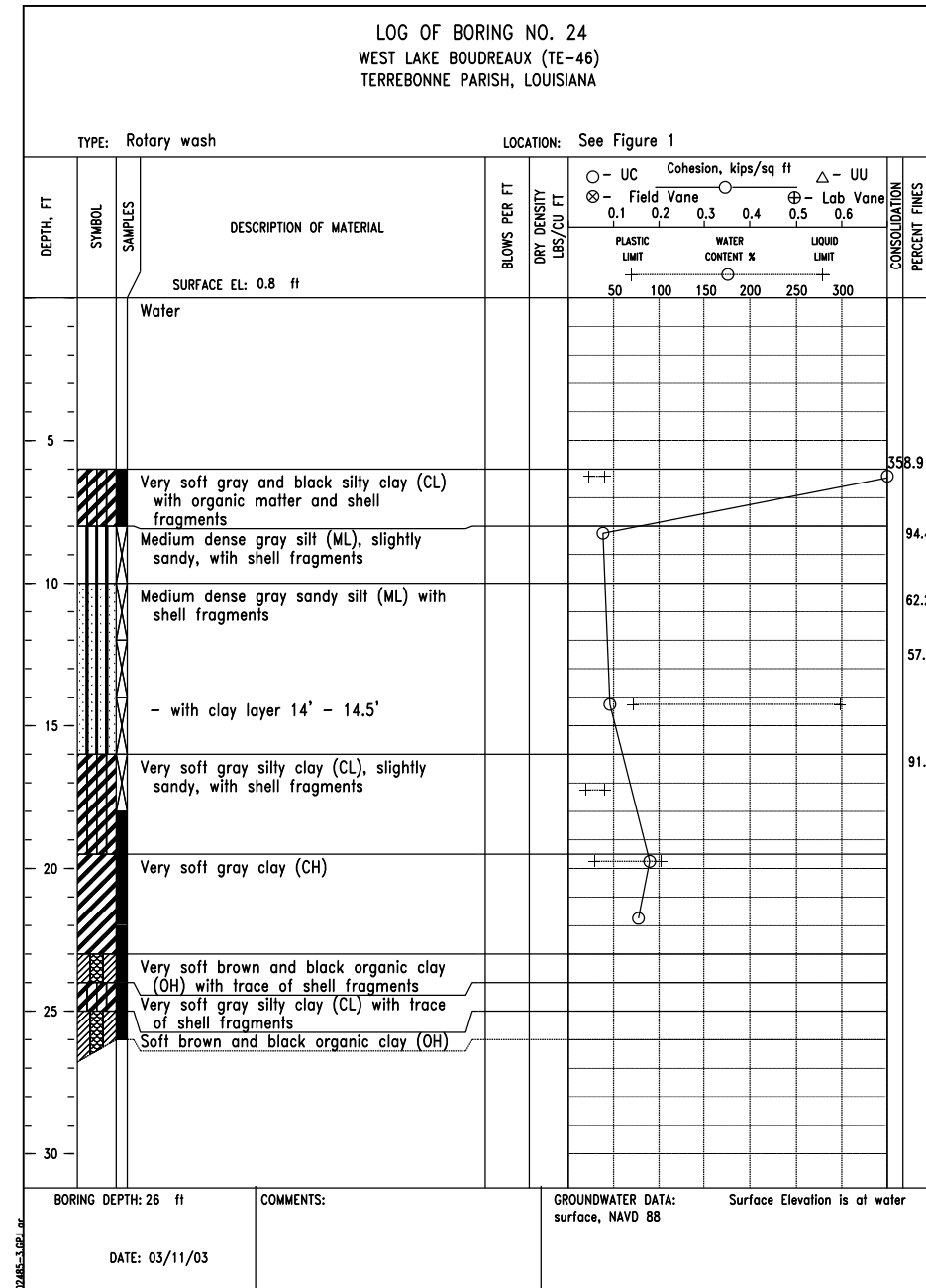


FIGURE A-24

DATE 01/05  
DESIGNED R. FAULKNER  
DRAWN A.J. GREMLION  
CHECKED B.A. STICKER  
APPROVED E.-J. GERING III

SOIL BORING LOGS: 22, 23 & 24  
 TE-46 - WEST LAKE BOUDREAU  
 CONSTRUCTION UNIT NO. 1  
 TERREBONNE PARISH, LOUISIANA



"AS-BUILT"

FILE NAME LA-346  
DRAWING NAME LA346056.dgn  
SHEET 56 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE

LOG OF BORING NO. 25  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

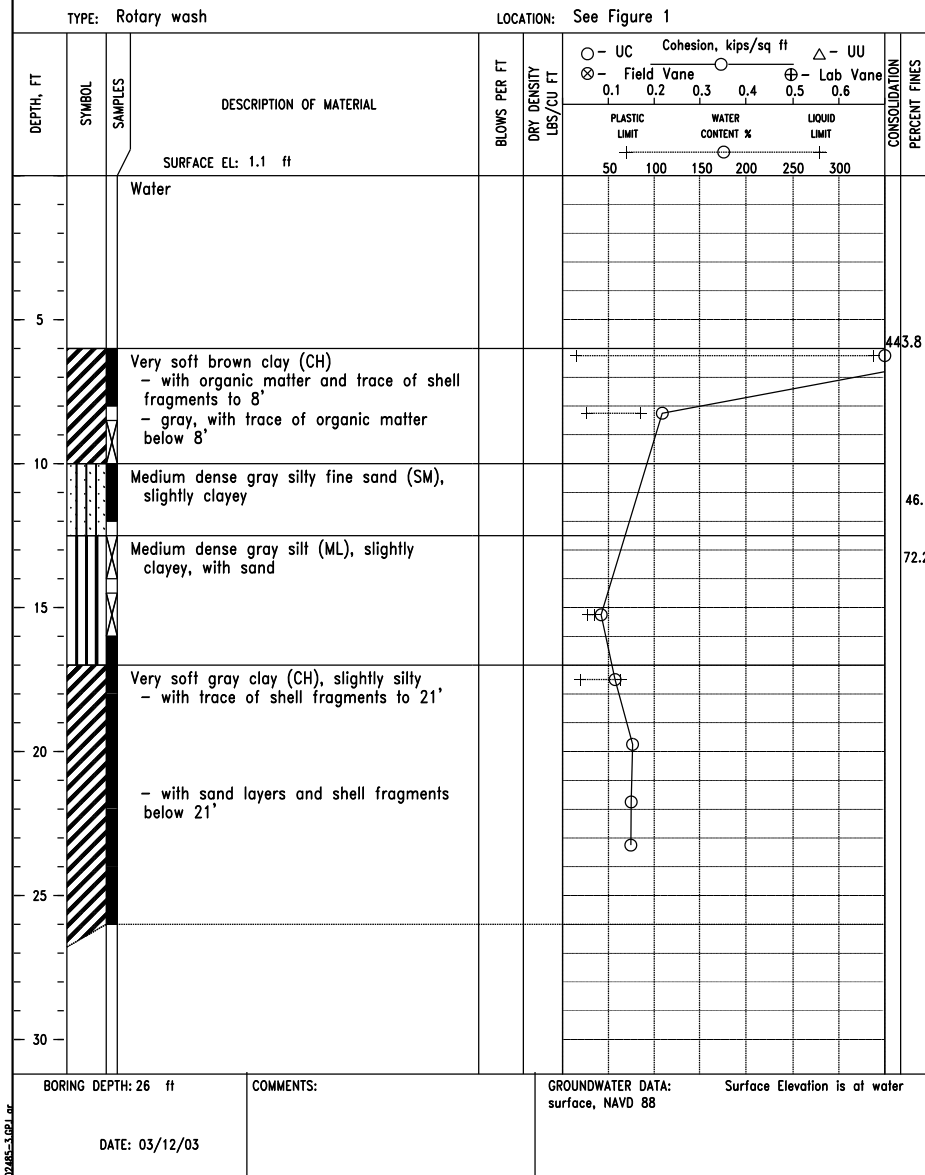


FIGURE A-25

LOG OF BORING NO. 26  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

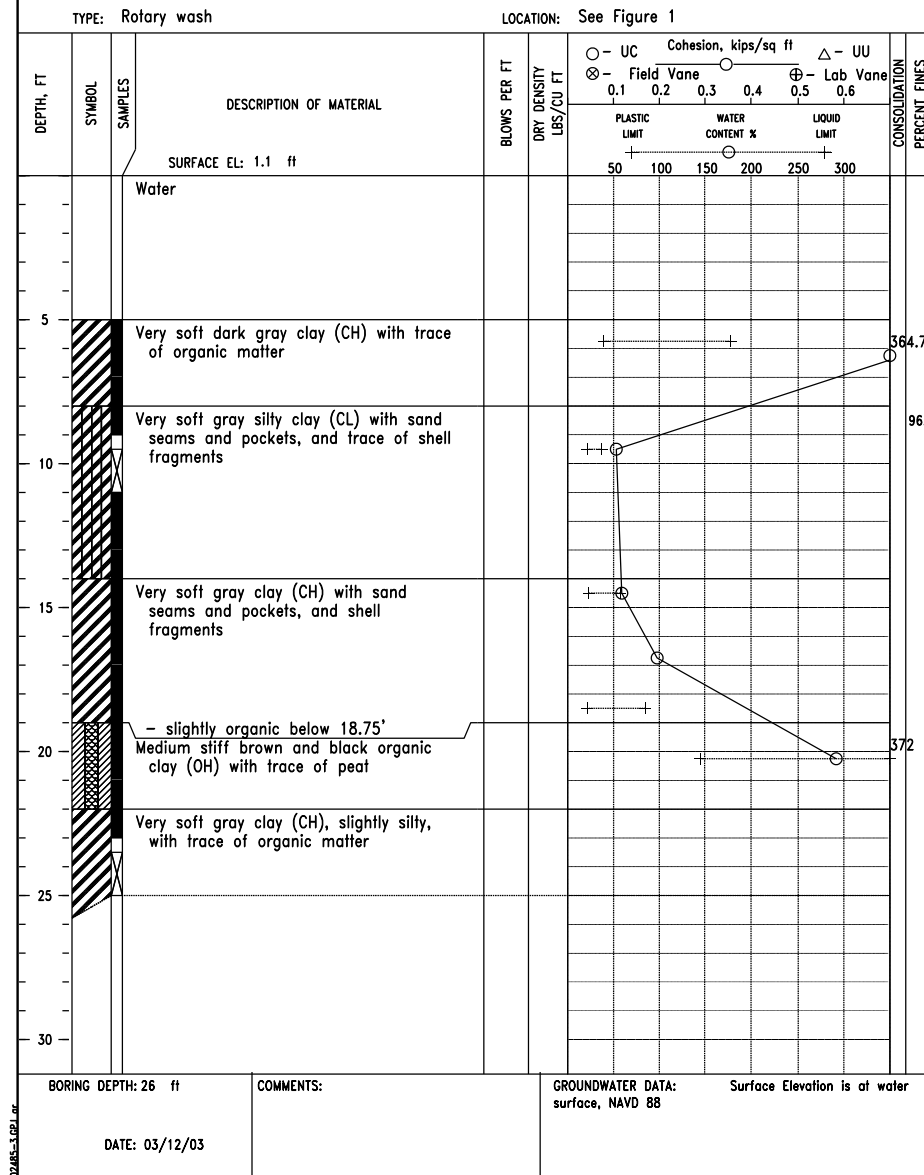


FIGURE A-26

LOG OF BORING NO. 27  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

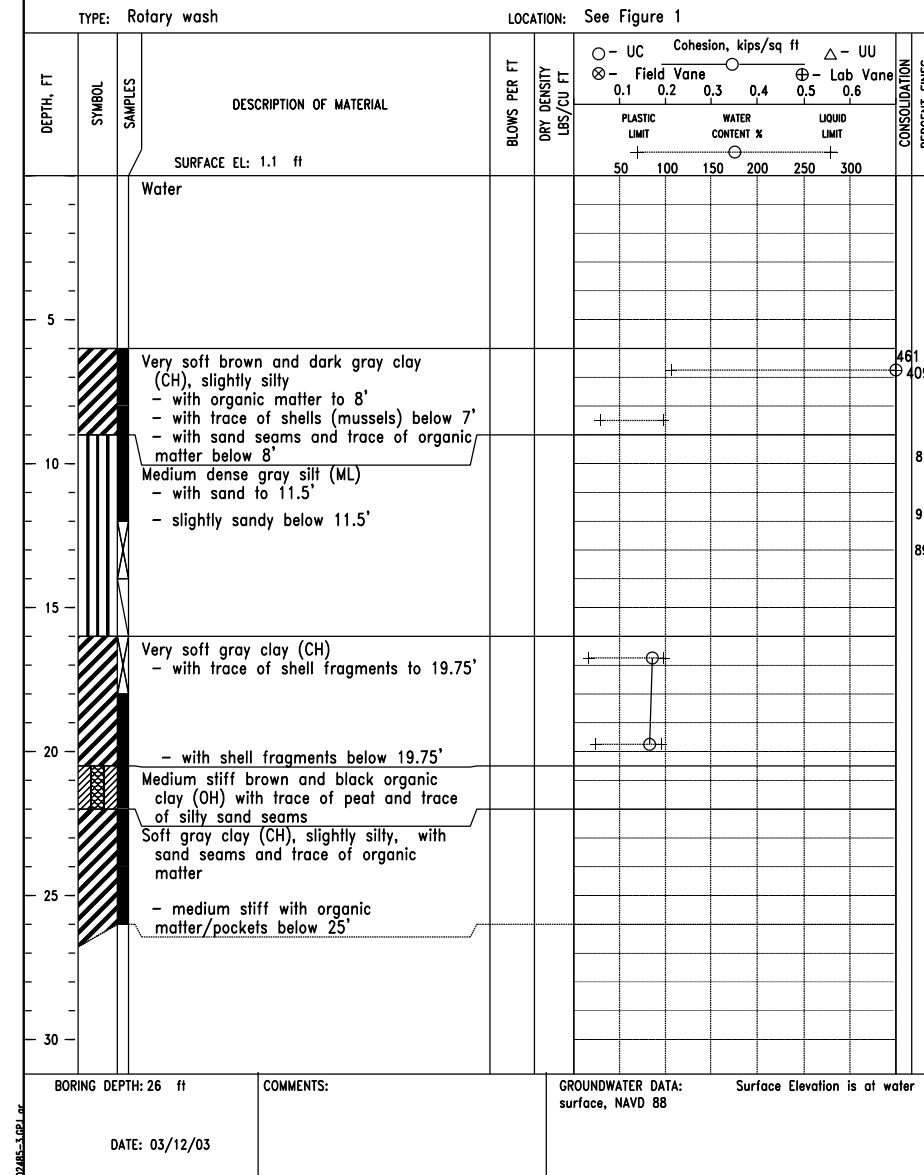


FIGURE A-27

SOIL BORING LOGS: 25, 26 & 27  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

DESIGNED: R. FAULKNER  
DRAWN: A.J. GREMLION  
CHECKED: B.A. STICKER  
APPROVED: E.J. GIERING III

DATE: 01/05  
01/05  
06/06  
12/06



"AS-BUILT"

FILE NAME: LA-346  
DRAWING NAME: LA346057.dgn  
SHEET 57 of 65

REVISIONS			
NO.	DATE	APPROVED	TITLE

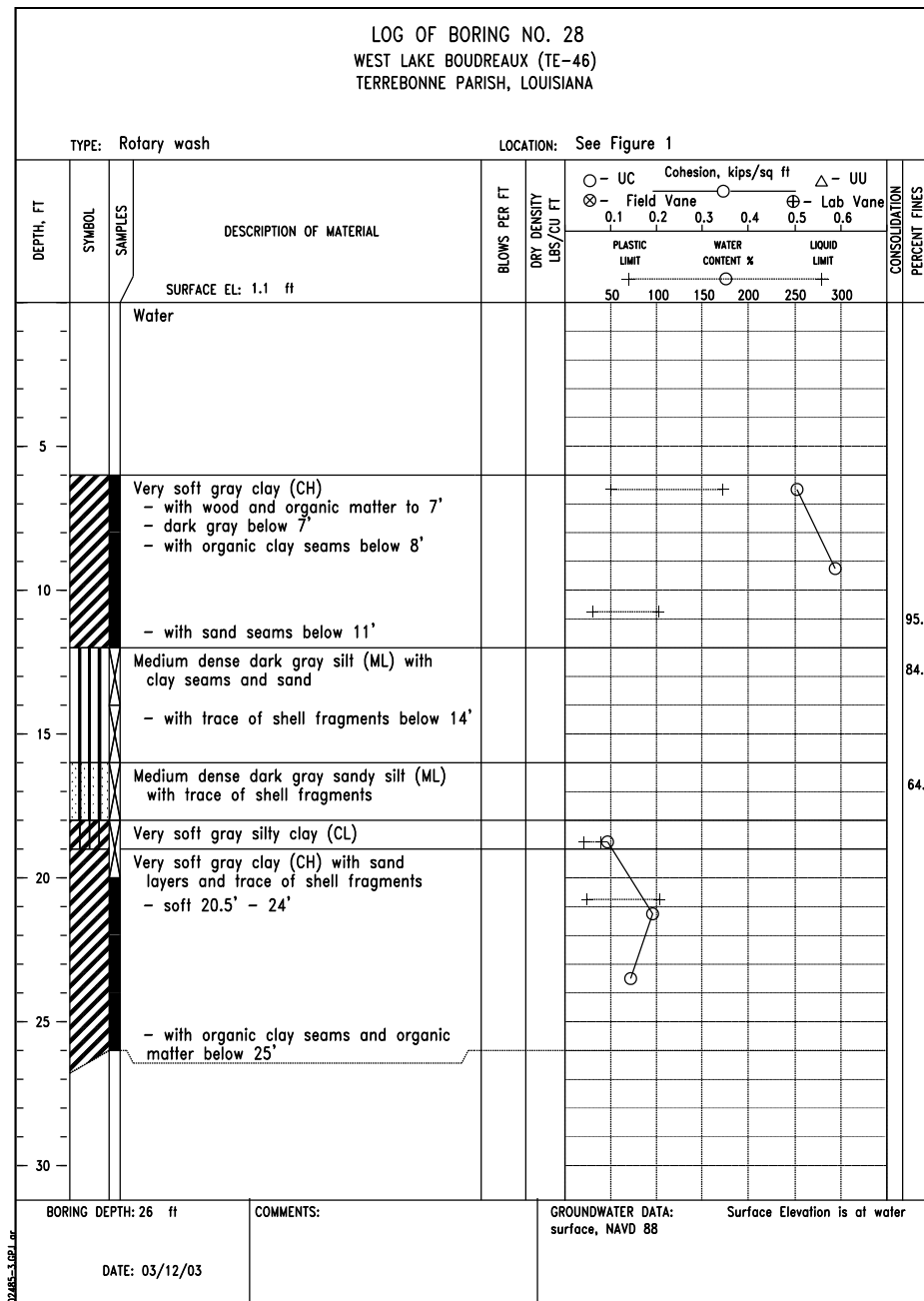


FIGURE A-28

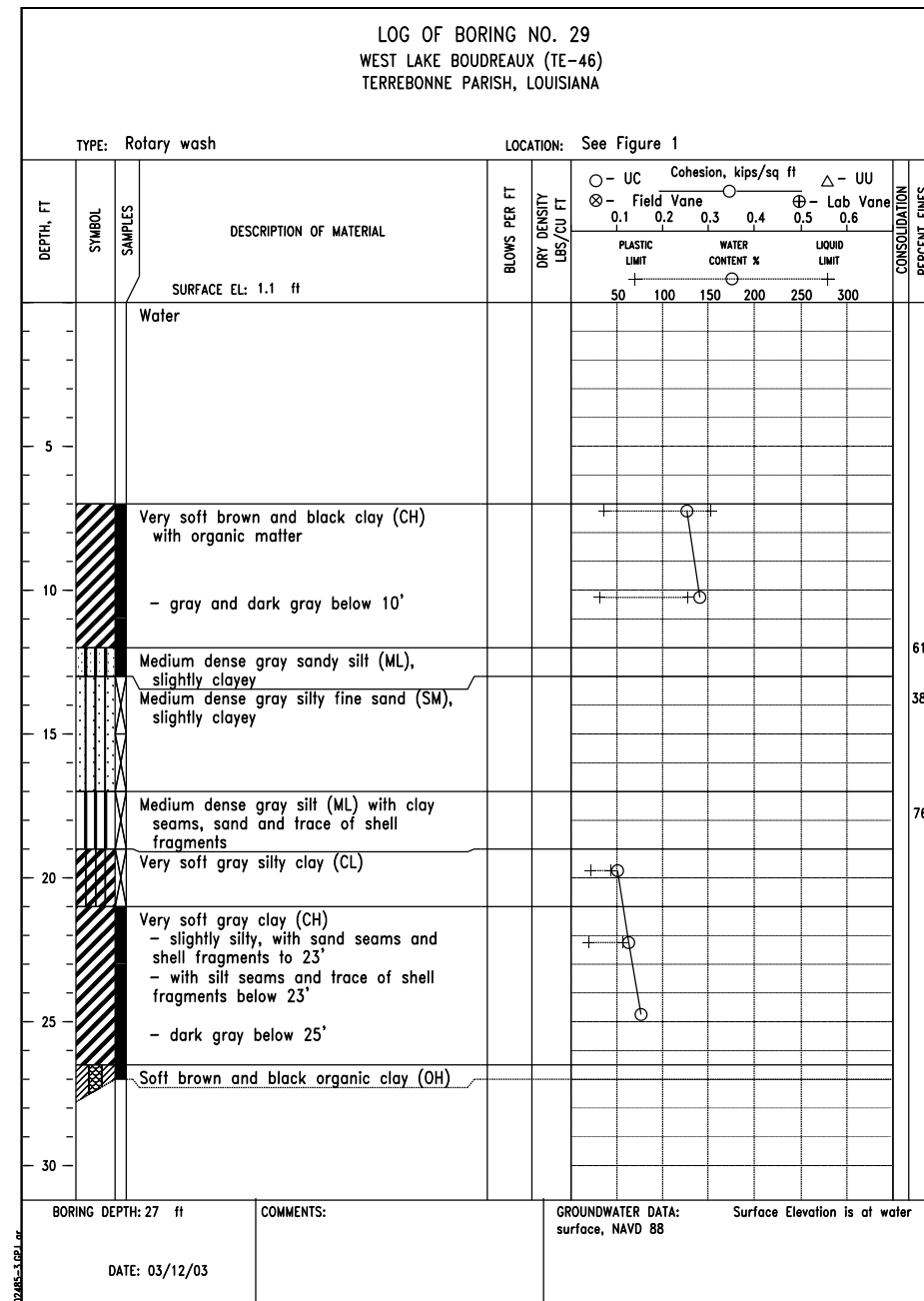


FIGURE A-29

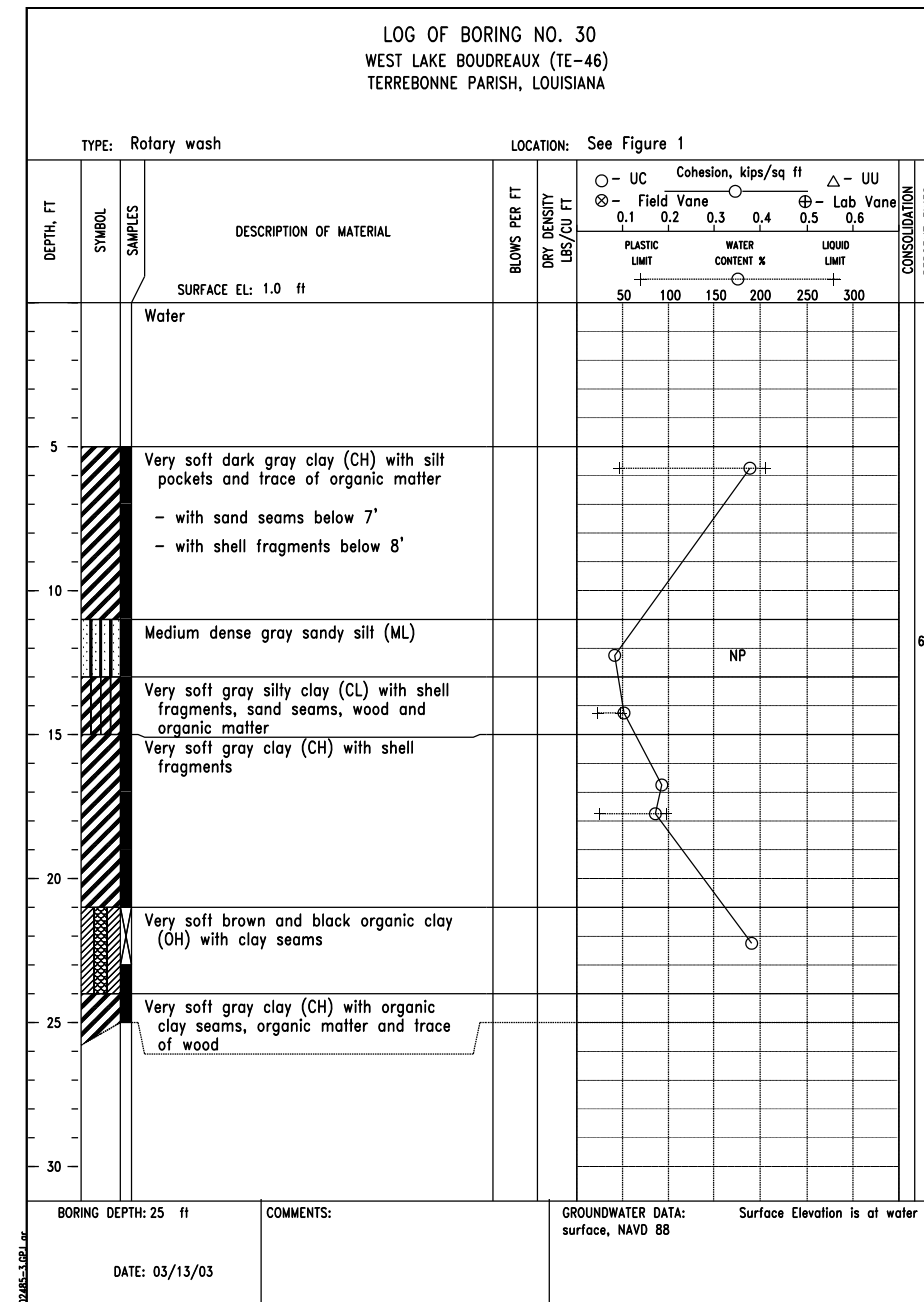


FIGURE A-30

DATE: 01/05  
DESIGNED: R. FAULKNER  
DRAWN: A.J. GREMLION  
CHECKED: B.A. STICKER  
APPROVED: E.J. GERING III

SOIL BORING LOGS: 28, 29 & 30  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME: LA-346  
DRAWING NAME: LA346058.dgn  
SHEET 58 of 65

"AS-BUILT"

REVISIONS			
NO.	DATE	APPROVED	TITLE



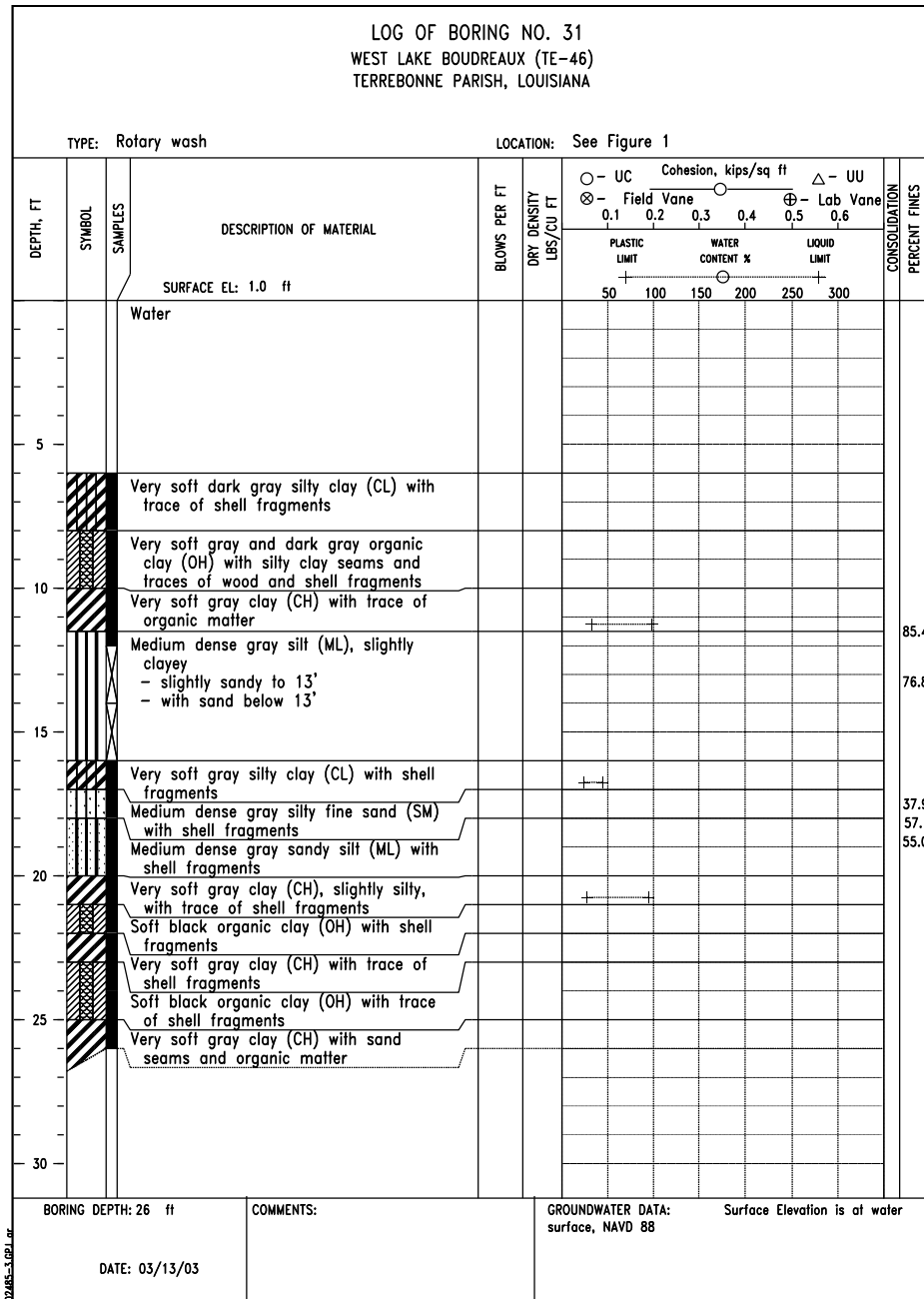


FIGURE A-31

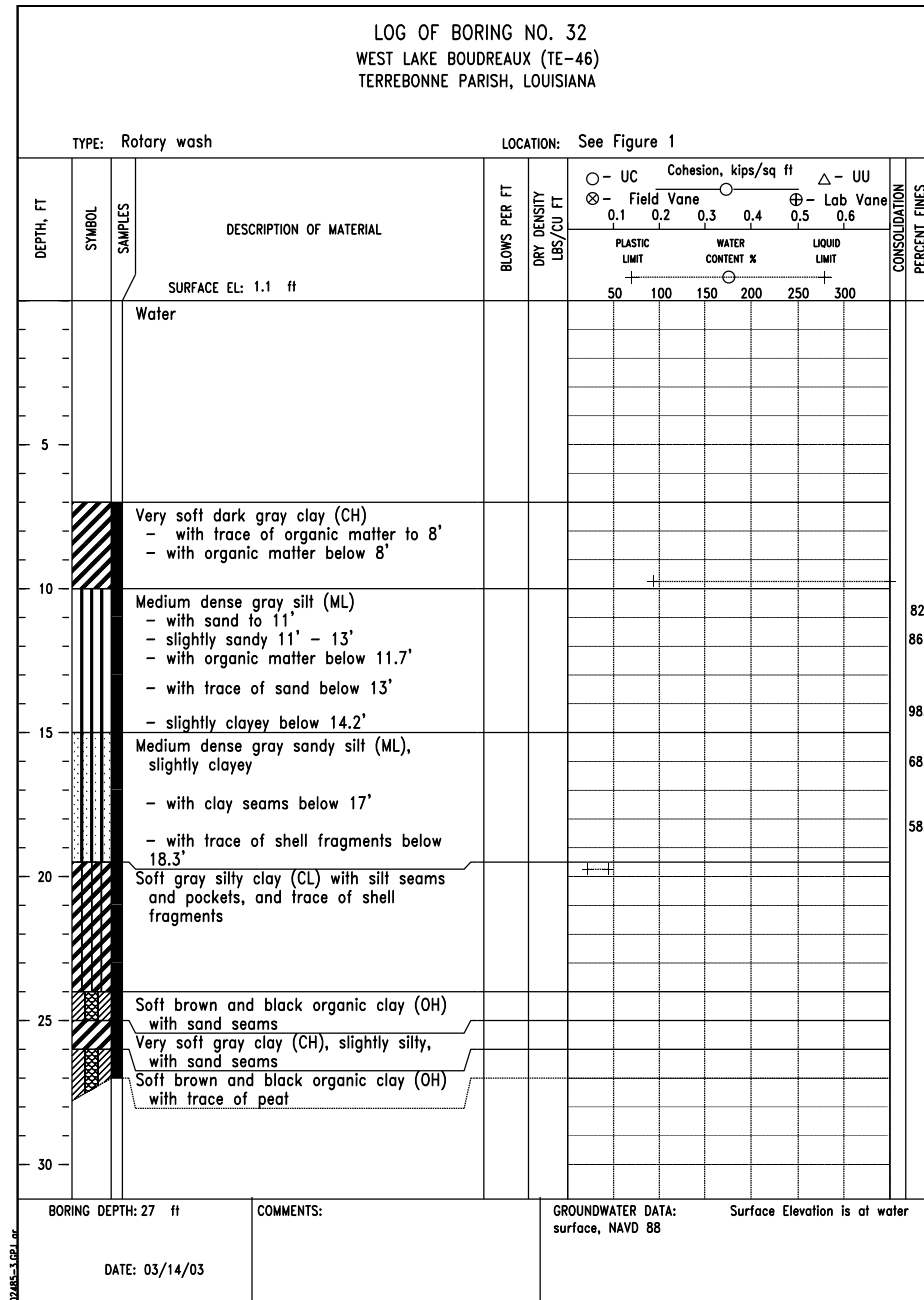


FIGURE A-32

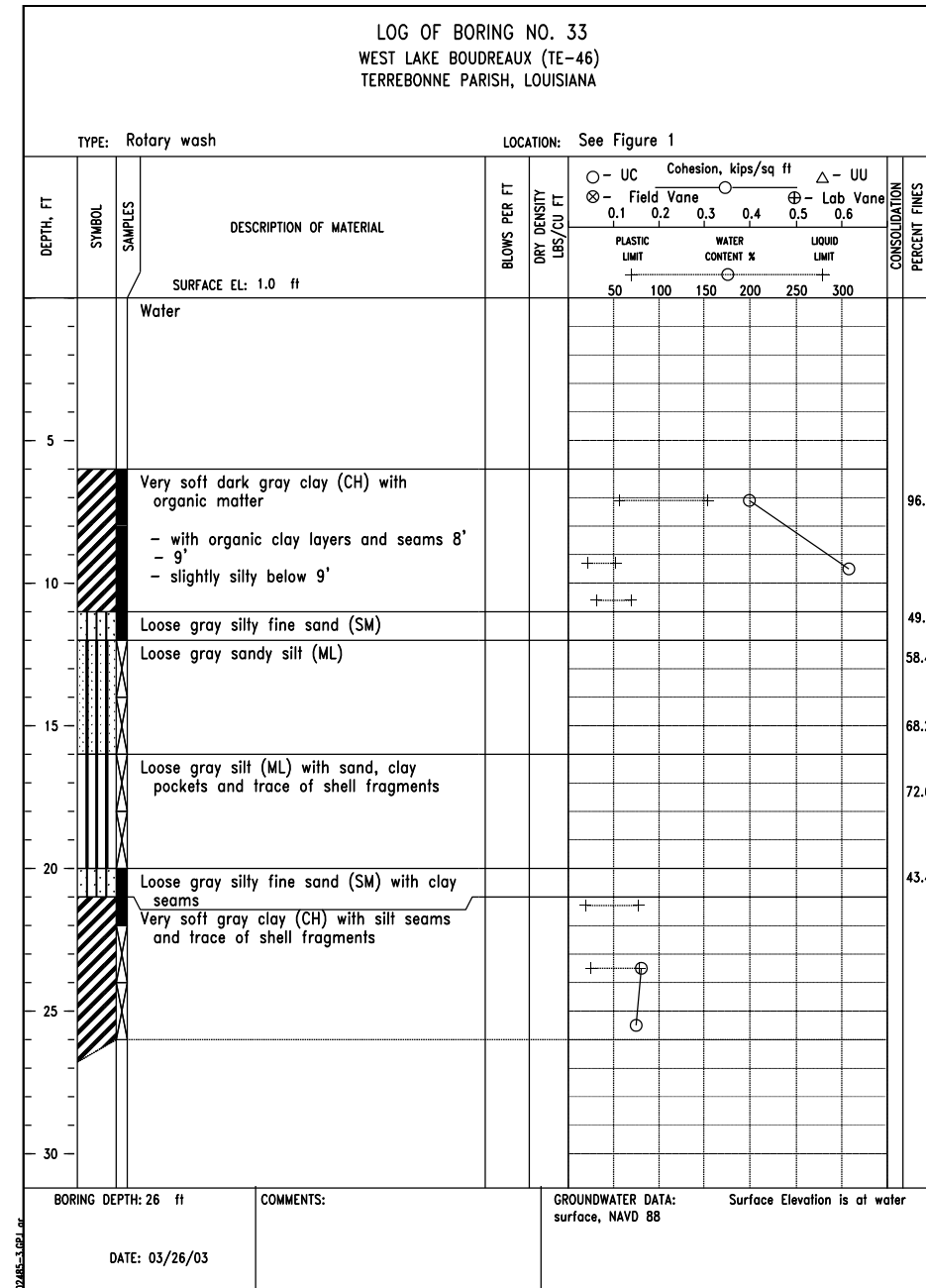


FIGURE A-33

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GIERING		12/06

SOIL BORING LOGS: 31, 33 & 33  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME  
LA-346

DRAWING NAME  
LA346059.dgn

"AS-BUILT"

REVISIONS			
NO.	DATE	APPROVED	TITLE

LOG OF BORING NO. 34  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

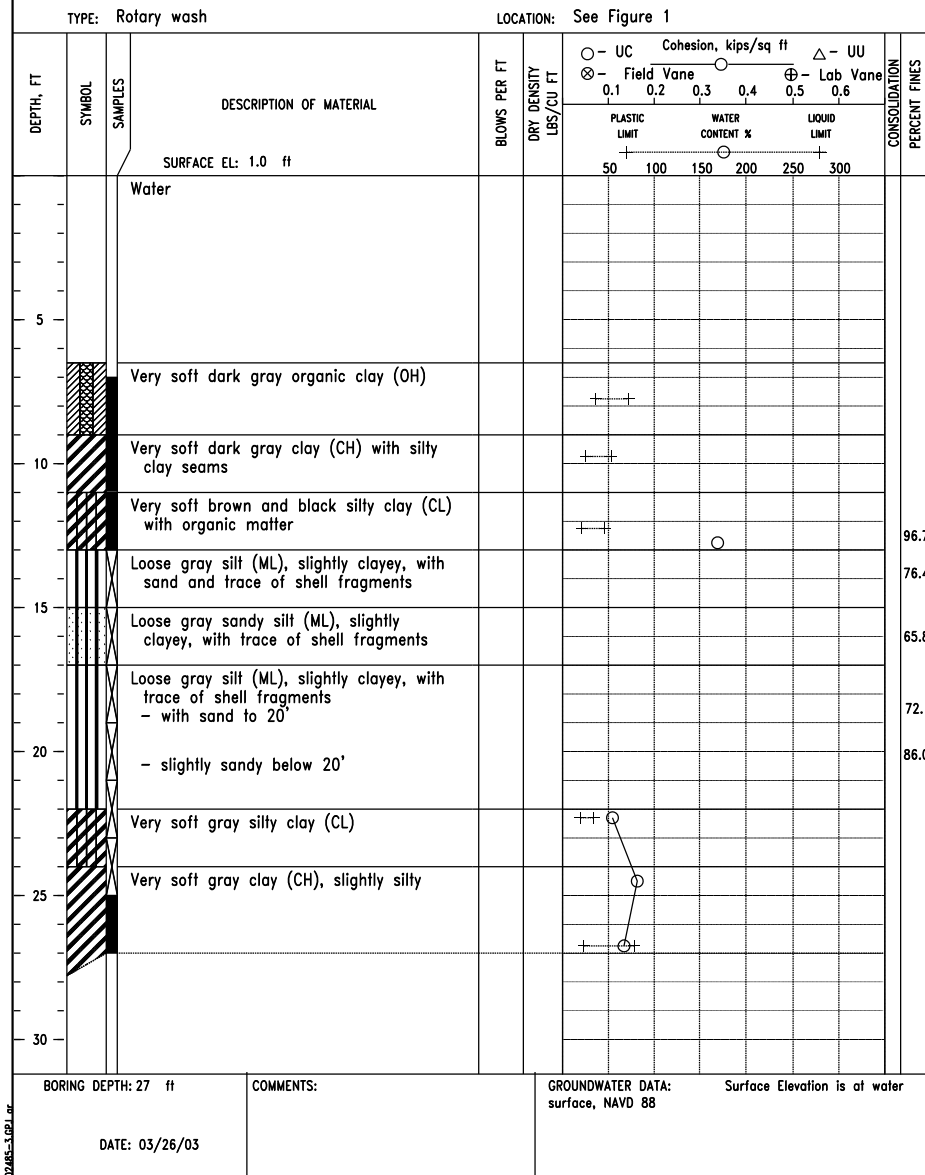


FIGURE A-34

LOG OF BORING NO. 35  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

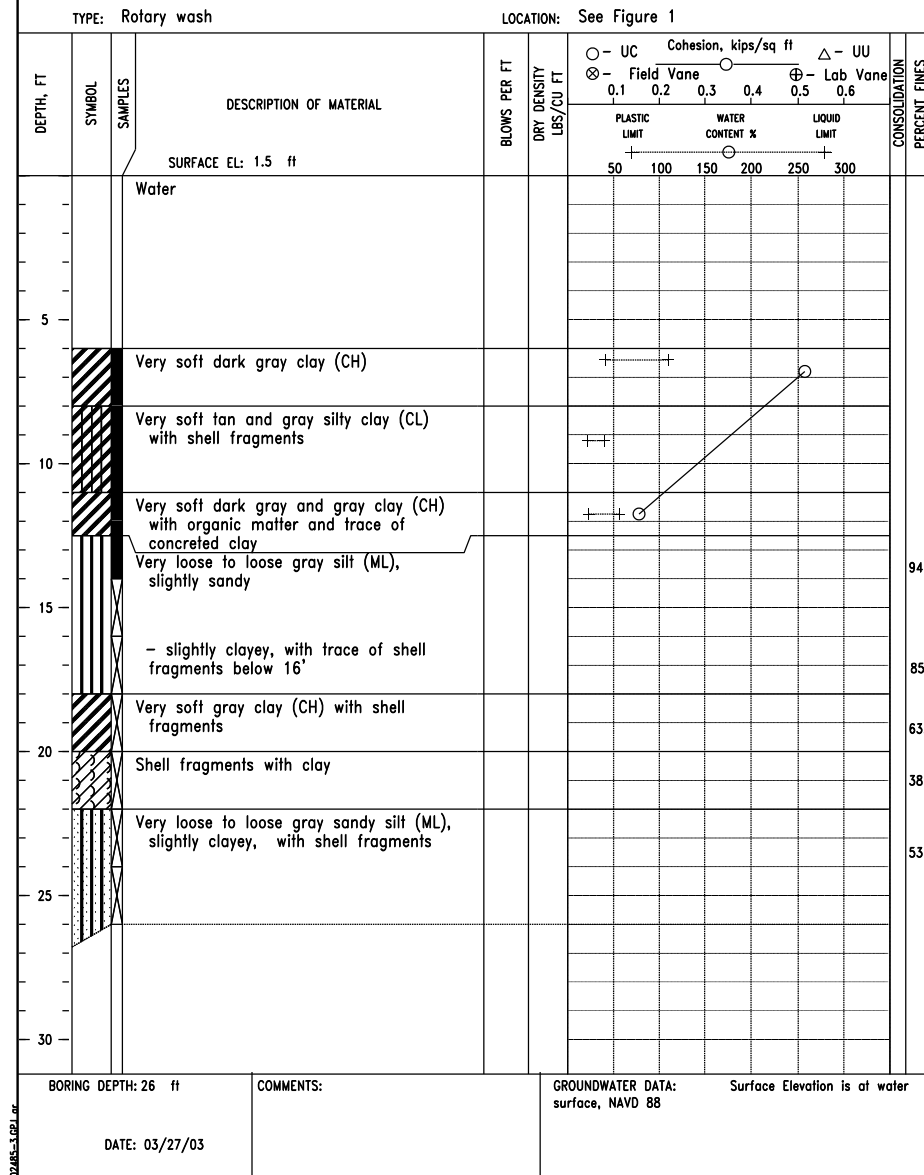


FIGURE A-35

LOG OF BORING NO. 36  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

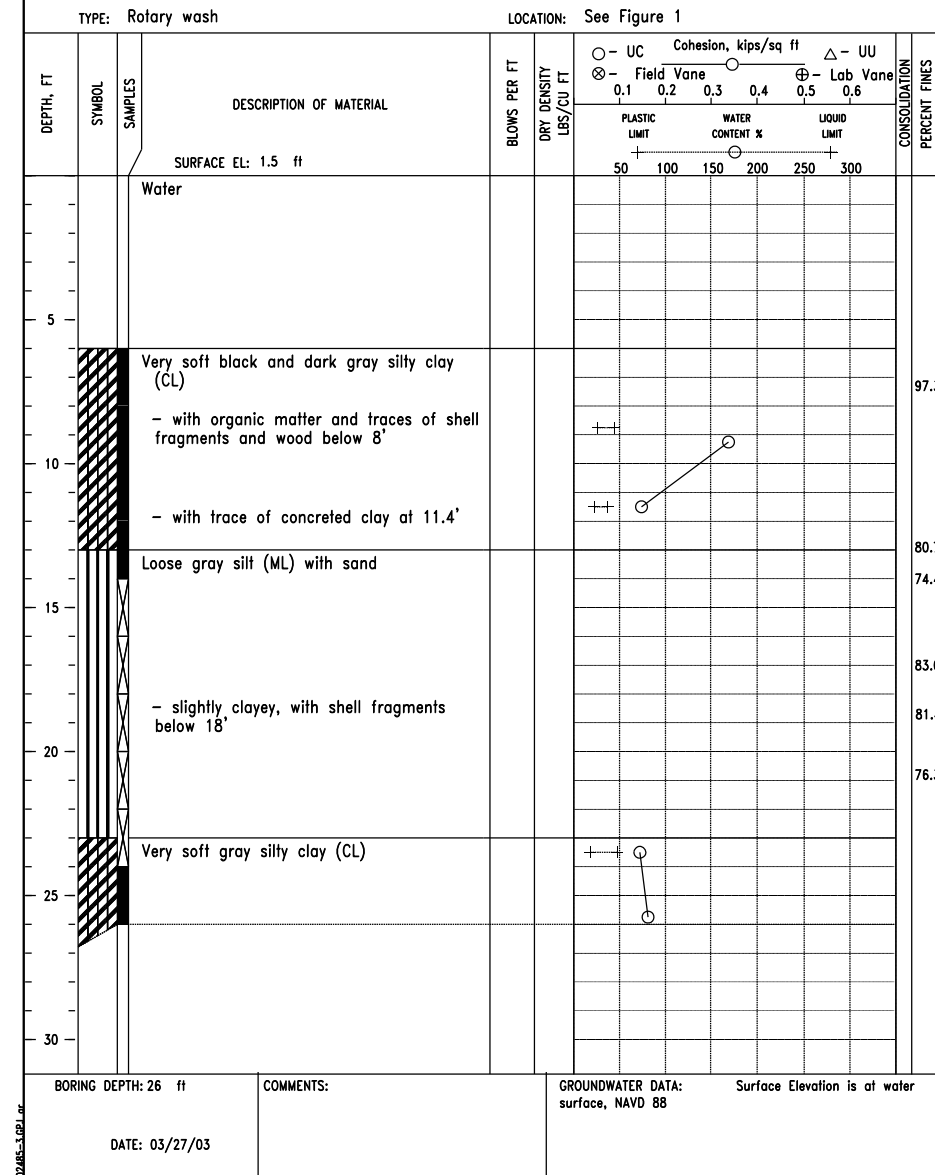


FIGURE A-36

DESIGNED: R. FAULKNER DATE: 01/05  
DRAWN: A.J. GREMLION DATE: 01/05  
CHECKED: B.A. STICKER DATE: 06/06  
APPROVED: E.J. GERING III DATE: 12/06

SOIL BORING LOGS: 34, 35 & 36  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



"AS-BUILT"

FILE NAME: LA-346

DRAWING NAME: LA346060.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE

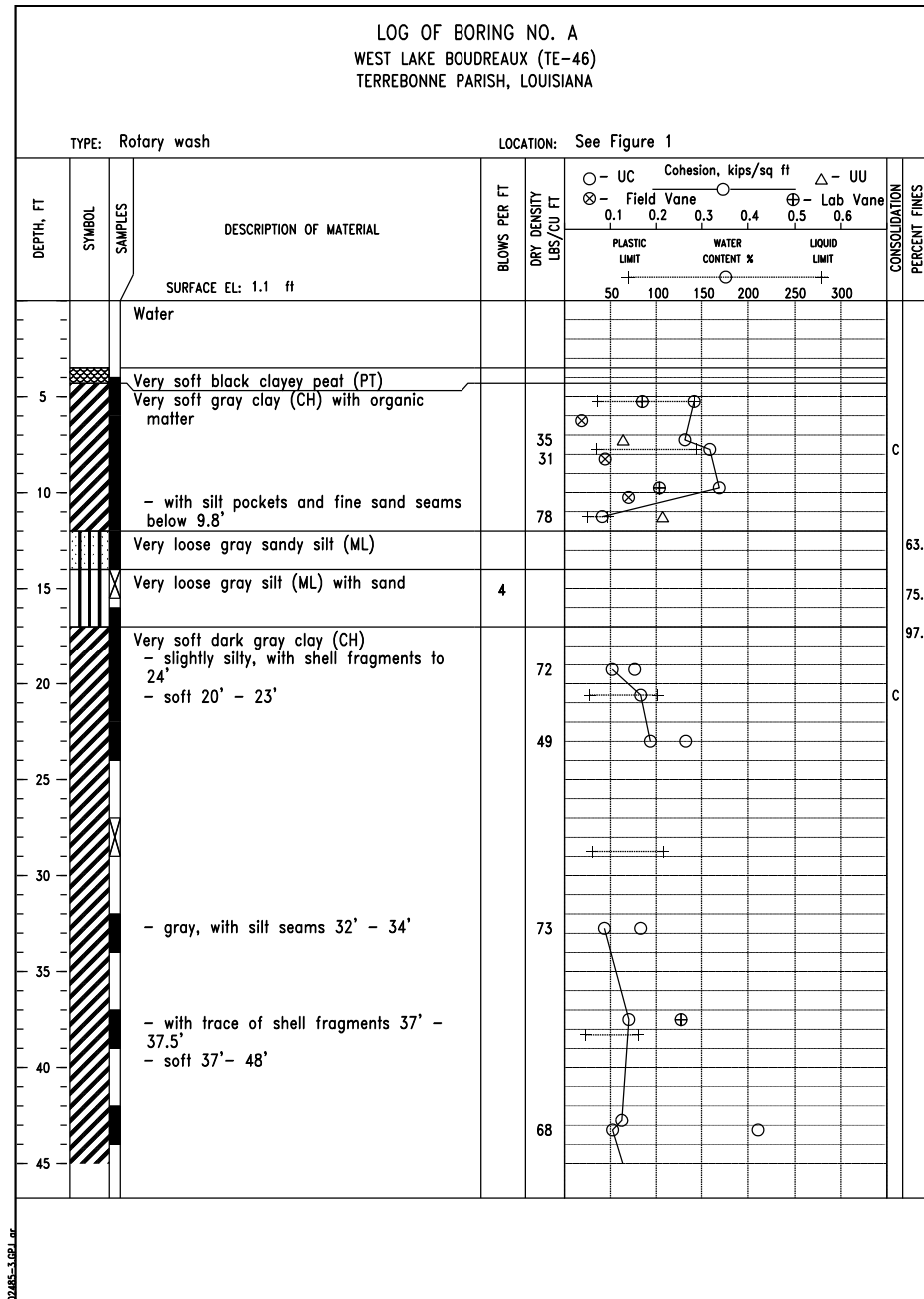


FIGURE A-37

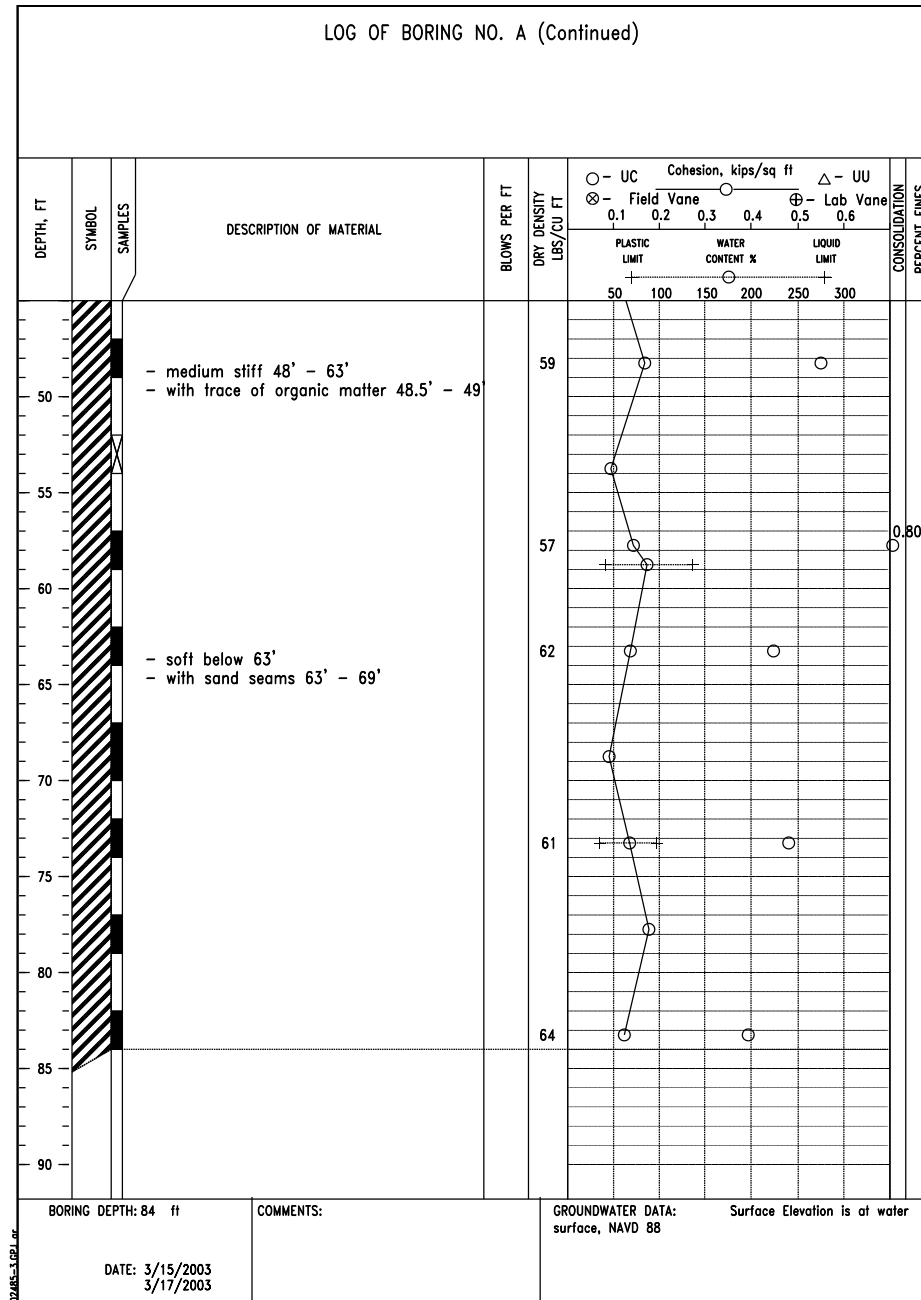


FIGURE A-38

**"AS-BUILT"**

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMILLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06

SOIL BORING LOG: A  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME  
LA-346

DRAWING NAME  
LA346061.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE



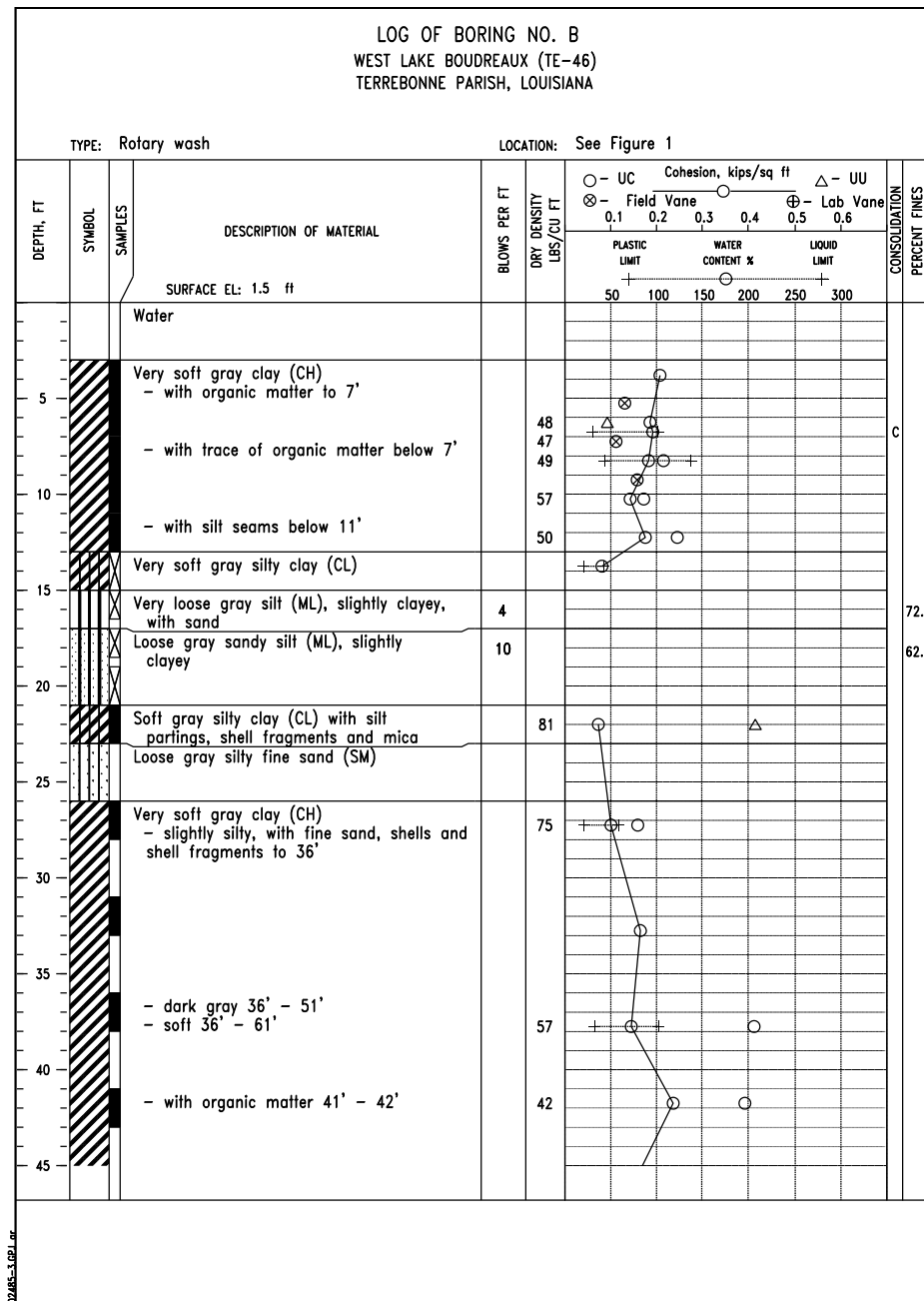


FIGURE A-39

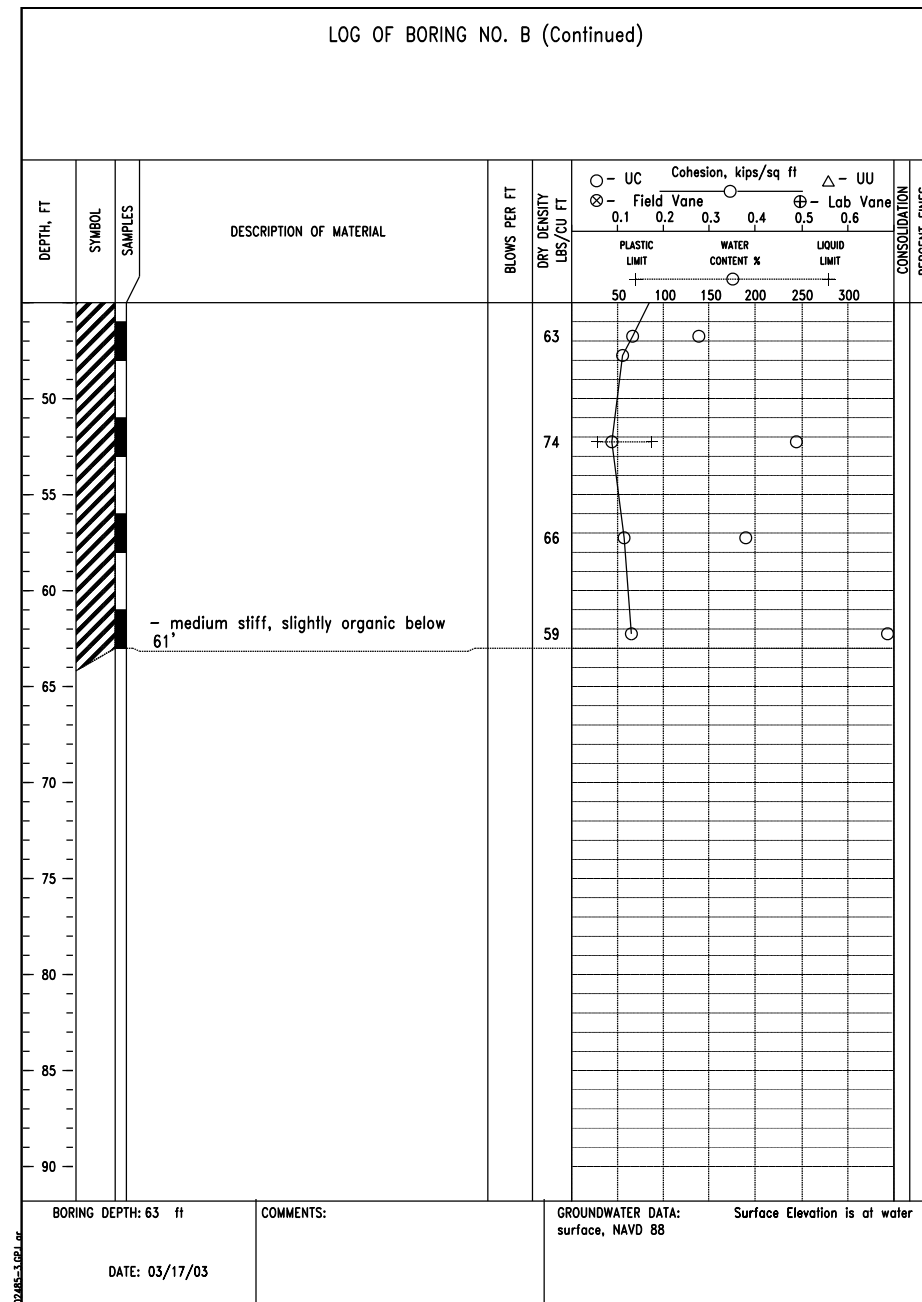


FIGURE A-40

SOIL BORING LOG: B  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA

DESIGNED: R. FAULKNER      DATE: 01/05  
DRAWN: A.J. GREMILLION      DATE: 01/05  
CHECKED: B.A. STICKER      DATE: 06/06  
APPROVED: E.J. GERING III      DATE: 12/06



"AS-BUILT"

FILE NAME  
LA-346

DRAWING NAME  
LA346062.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE

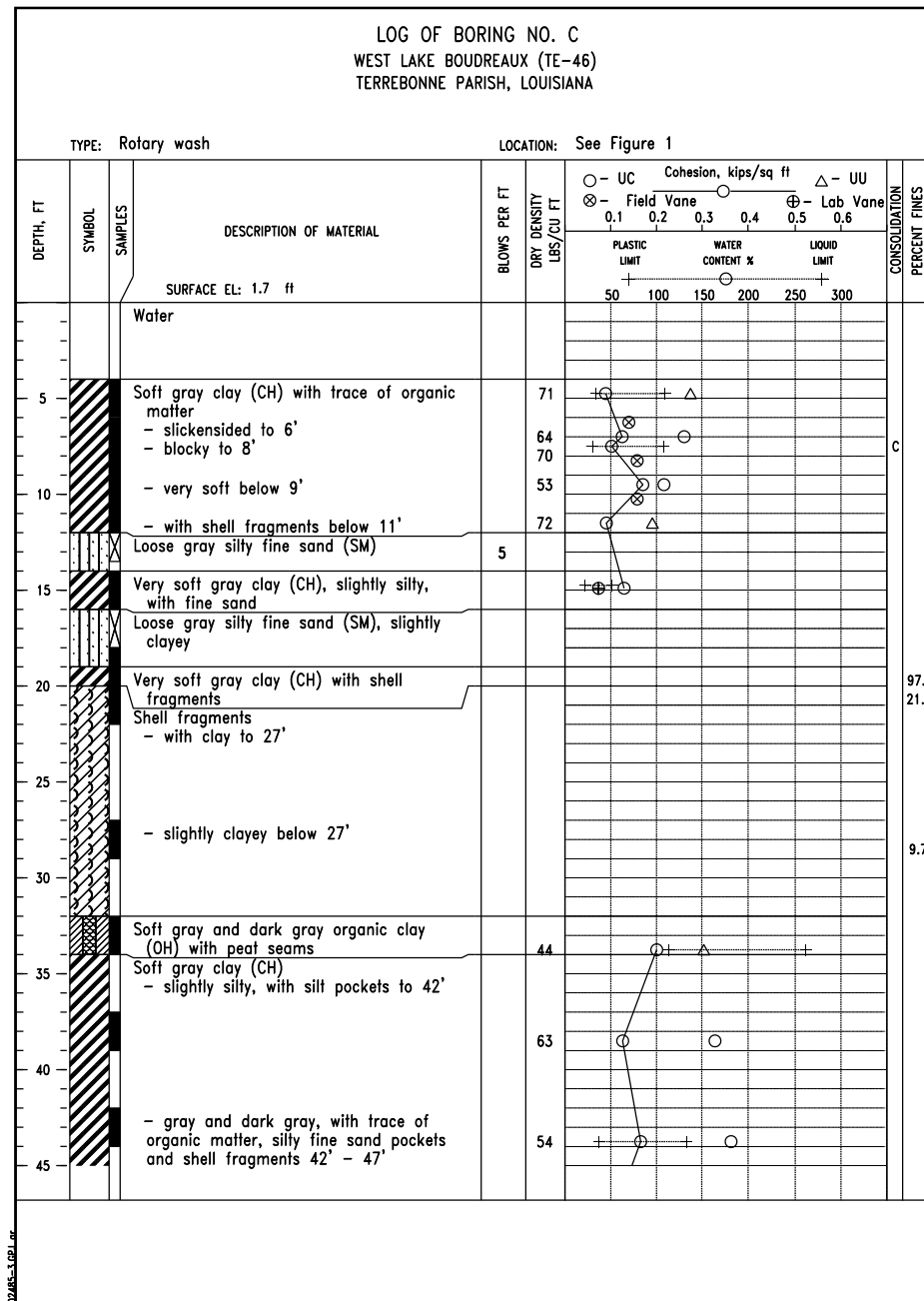


FIGURE A-41

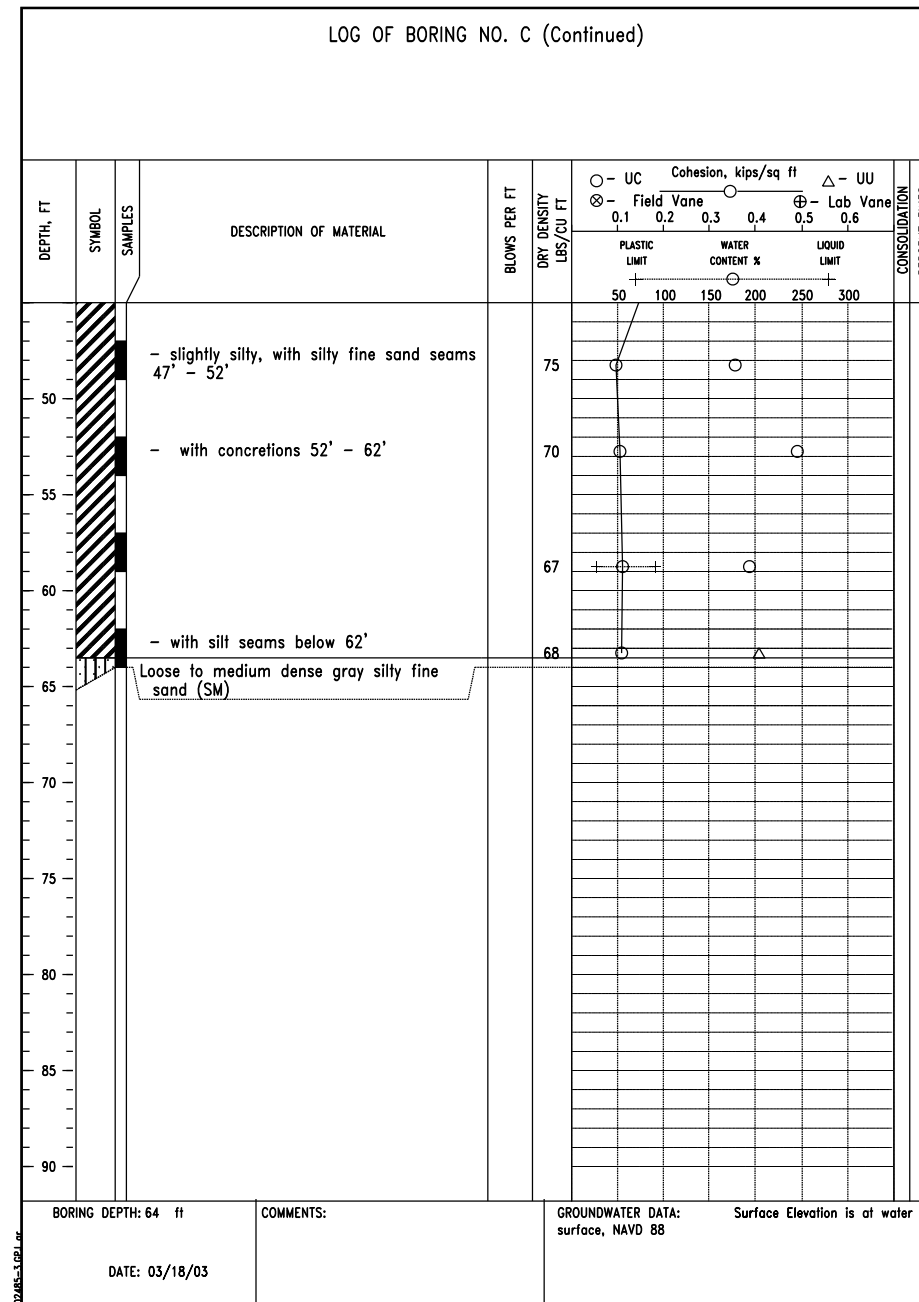


FIGURE A-42

DESIGNED: R. FAULKNER      DATE: 01/05  
DRAWN: A.J. GREMILLION      DATE: 01/05  
CHECKED: B.A. STICKER      DATE: 06/06  
APPROVED: E.J. GERING III      DATE: 12/06

SOIL BORING LOG: C  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



"AS-BUILT"

FILE NAME  
LA-346

DRAWING NAME  
LA346063.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE

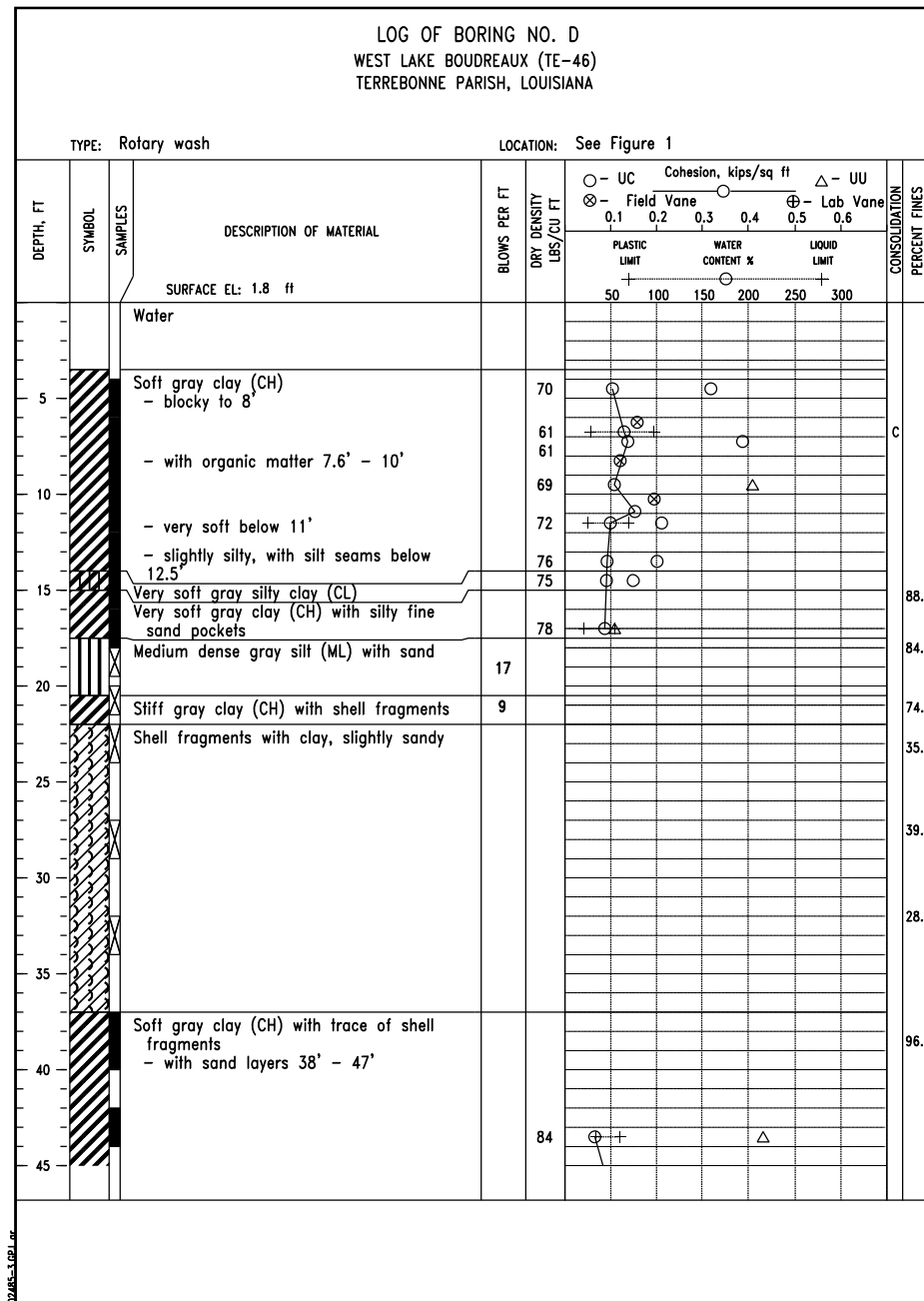


FIGURE A-43

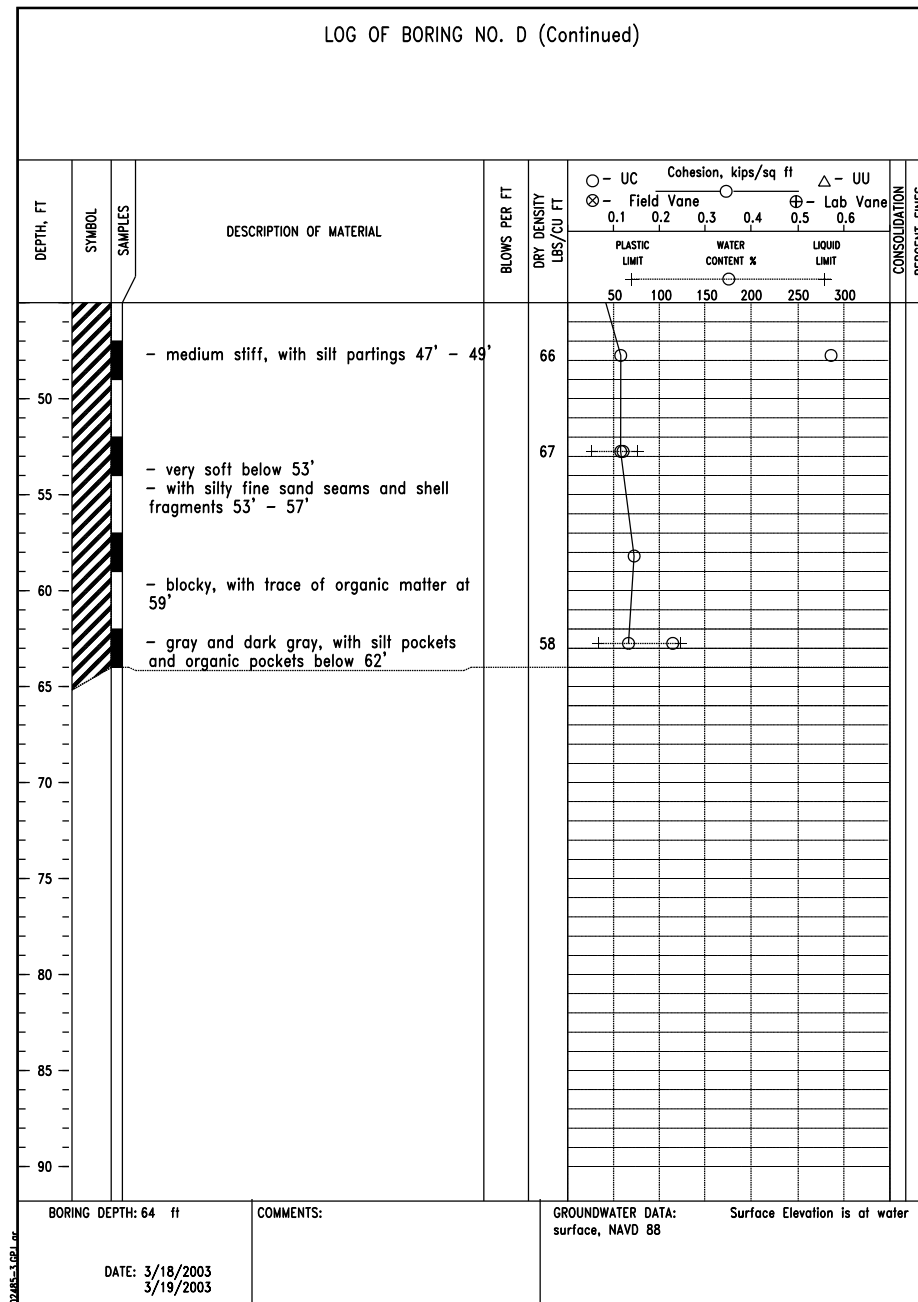


FIGURE A-44

DESIGNED: R. FAULKNER      DATE: 01/05  
DRAWN: A.J. GREMILLION      DATE: 01/05  
CHECKED: B.A. STICKER      DATE: 06/06  
APPROVED: E.J. GERING III      DATE: 12/06

SOIL BORING LOG: D  
TE-46 - WEST LAKE BOUDREAUX  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



"AS-BUILT"

FILE NAME  
LA-346

DRAWING NAME  
LA346064.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE



LOG OF BORING NO. E  
WEST LAKE BOUDREAU (TE-46)  
TERREBONNE PARISH, LOUISIANA

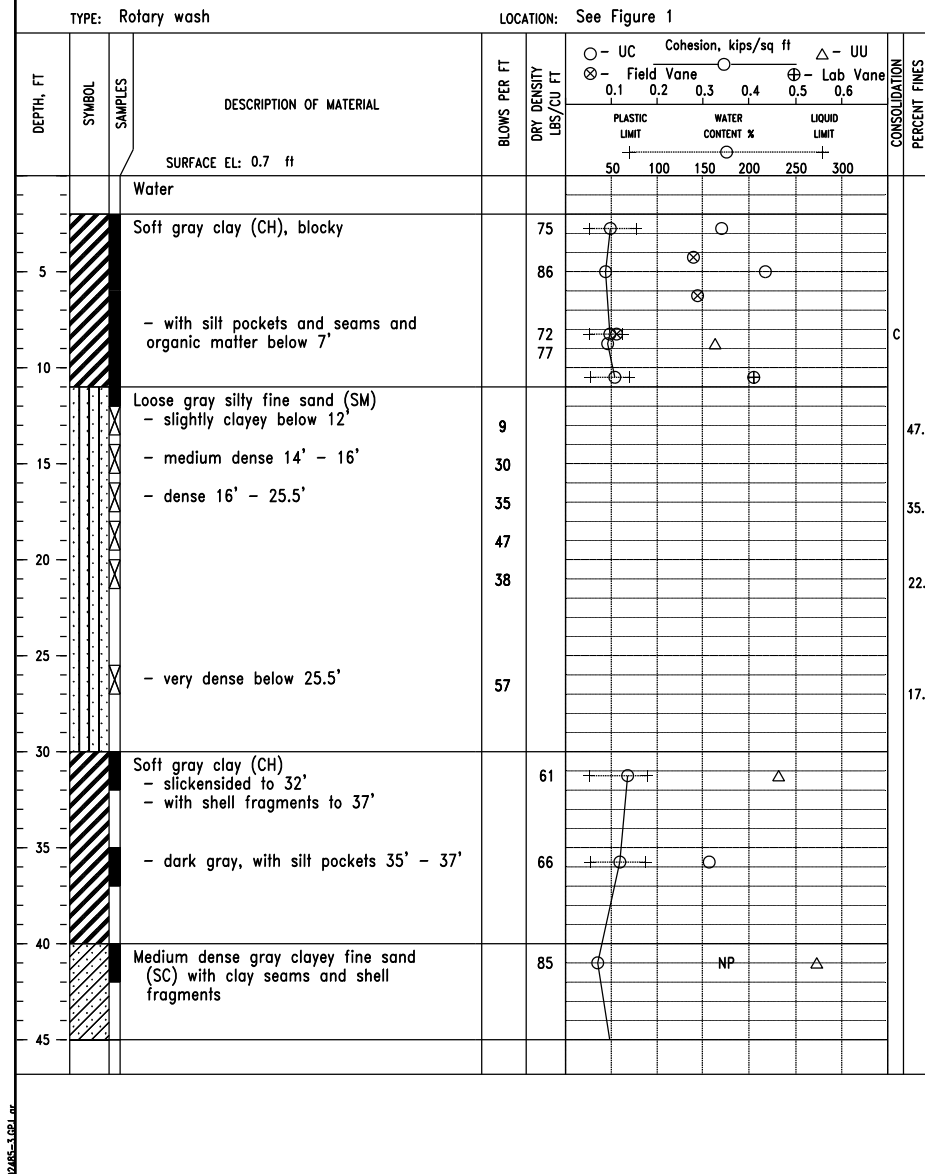


FIGURE A-45

LOG OF BORING NO. E (Continued)

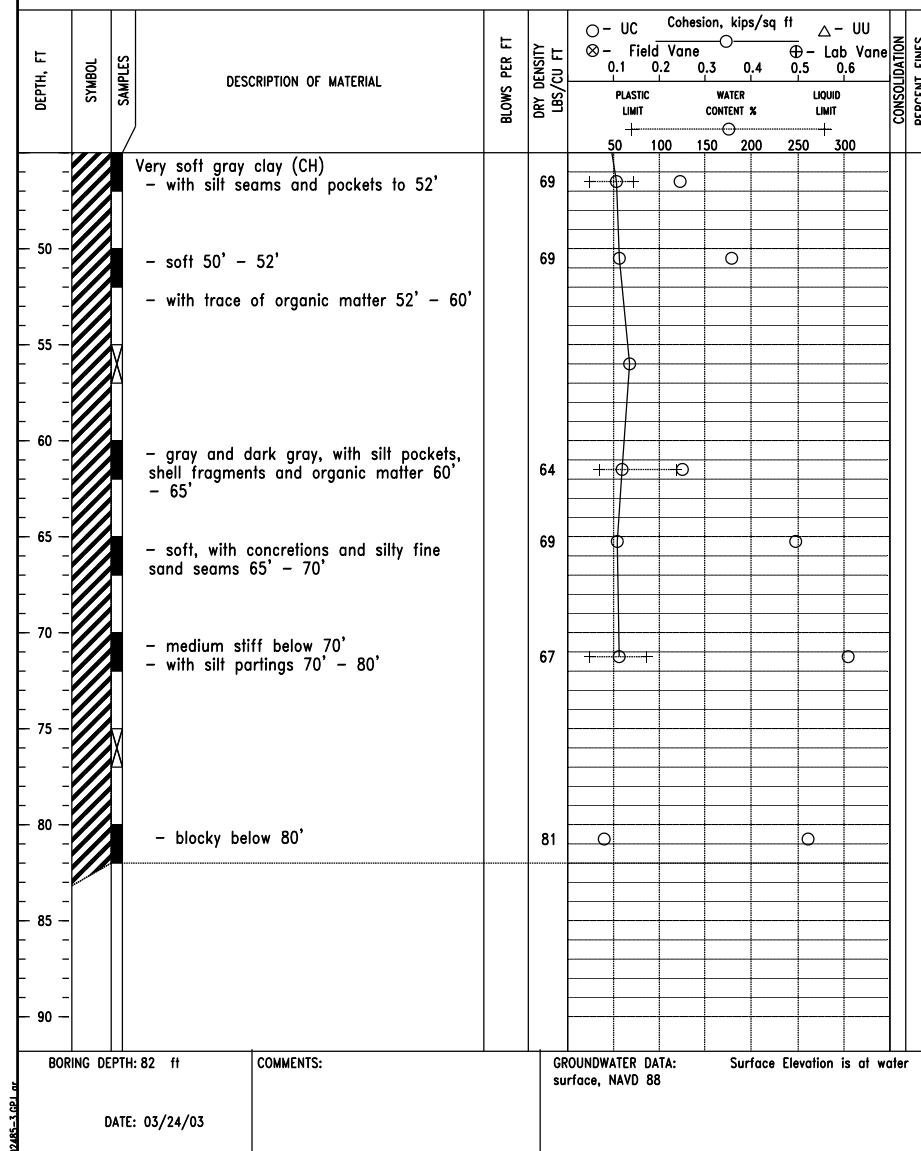


FIGURE A-46

LEGEND

	SM	SILTY SAND, SAND-SILT MIXTURE
	SC	CLAYEY SAND, SAND-CLAY MIXTURE
	ML	SILT WITH LITTLE OR NO PLASTICITY
	ML	CLAYEY SILT, SILT WITH SLIGHT TO MEDIUM PLASTICITY
	ML	SANDY SILT
	CL	SILTY CLAY, LOW TO MEDIUM PLASTICITY
	CL	SANDY CLAY, LOW TO MEDIUM PLASTICITY (30% TO 50% SAND)
	CH	CLAY, HIGH PLASTICITY
	OH	ORGANIC CLAY OF MEDIUM TO HIGH PLASTICITY
	PT	PEAT, HUMUS, SWAMP SOIL
		SHELL FRAGMENTS WITH CLAY

BH #	NORTHING	EASTING	BH DEPTH	MODEL PT.
1	338015.85	3489986.30	33	2974
2	337424.40	3489806.35	34	2975
A	336862.42	3489060.91	84	2987
6	335642.93	3487748.10	33	2979
B	335336.33	3487252.32	63	2988
7	334614.32	3487427.19	34	2980
C	334107.54	3487715.74	64	2989
10	332773.09	3487773.60	34	2983
D	332140.16	3487737.46	64	2990
12	331281.84	3488117.05	33	2985
E	330630.40	3488774.45	82	2991
13	329104.89	3488925.73	33	2986
3	337454.26	3487216.37	31	2976
4	336627.33	3487809.23	32	2977

BH #	NORTHING	EASTING	BH DEPTH	MODEL PT.
5	335948.19	3486506.67	33	2978
8	334757.83	3486489.77	31	2981
9	334190.08	3487170.02	30	2982
11	332329.45	3487151.98	30	2984
14	333487.19	3493811.12	26	3422
15	333600.19	3491811.12	26	3423
16	331616.19	3490981.12	26	3424
17	331690.19	3492985.12	26	3425
18	333600.19	3492478.12	26	3426
19	333600.19	3493145.12	26	3427
20	334100.19	3492811.12	26	3429
21	332600.19	3491811.12	26	3430
22	332487.19	3493811.12	26	3431
23	337716.19	3491081.12	26	1675

BH #	NORTHING	EASTING	BH DEPTH	MODEL PT.
24	334216.19	3491081.12	26	1682
25	330716.19	3491081.12	26	1683
26	338216.19	3492081.12	26	1678
27	335883.19	3492081.12	26	1679
28	333550.19	3492081.12	26	1680
29	331217.19	3492081.12	27	1681
30	337716.19	3493081.12	25	1677
31	334216.19	3493081.12	26	1684
32	330716.19	3493081.12	27	1685
33	331616.19	3491648.12	26	3432
34	331616.19	3492315.12	27	3433
35	332600.19	3492478.12	26	3434
36	332600.19	3493145.12	26	3435

"AS-BUILT"

DESIGNED	R. FAULKNER	DATE	01/05
DRAWN	A.J. GREMLION		01/05
CHECKED	B.A. STICKER		06/06
APPROVED	E.J. GERING III		12/06

SOIL BORING LOG: E  
TE-46 - WEST LAKE BOUDREAU  
CONSTRUCTION UNIT NO. 1  
TERREBONNE PARISH, LOUISIANA



FILE NAME: LA-346  
DRAWING NAME: LA346065.dgn

REVISIONS			
NO.	DATE	APPROVED	TITLE