



**SURVEY COST ESTIMATE**  
**BA-02 GIWW TO CLOVELLY**  
**MAINTENANCE PROJECT**  
Lafourche Parish, Louisiana

Contract No. 2503-10-08 (Task#5)

**Attention:**  
Mr. Daniel Dearman  
Office of Coastal Protection and Restoration  
1440 Tiger Drive  
Thibodaux, LA 70301  
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**From:**  
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August 6, 2010

**JCLS REF. No. 2010-0282**

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## **SECTION A**

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### **Scope of Services Notice to Proceed**

## **SCOPE OF SERVICES FOR HYDROGRAPHIC/TOPOGRAPHIC SURVEY**

### **GIWW TO CLOVELLY HYDROLOGIC RESTORATION (BA-02) MAINTENANCE PROJECT LAFOURCHE PARISH, LOUISIANA**

April 2010

#### **1.0 INTRODUCTION**

The GIWW to Clovelly Hydrologic Restoration Project (BA-02) consists of approximately 14,948 acres located in the Barataria Basin near the Gulf Intracoastal Waterway (GIWW) in Lafourche Parish. The project is bounded by the GIWW to the north and to the northeast, Bayou Lafourche to the west, Superior Canal to the south and Bayou Perot, Little Lake and Bay L' Ours to the east. Construction Unit No.1 of this project was completed in November 1997 and consisted of the construction of 8 structures west of Little Lake and Bay L'Ours which included three (3) rock plugs, four (4) rock weirs and a rock plug with corrugated metal pipe and flap gate (Figure 1). Construction Unit No.2 was completed in October 2000 and included the installation of two (2) rock plugs, two (2) additional rock weirs, one (1) variable crest sheet pile structure, 5,665 linear feet of shoreline protection on the southwest bank of Bay L' Ours, 11,700 linear feet of earth stabilization and 5,000 linear feet of rock bank stabilization (Figure 1). The project objective is to protect intermediate marsh in the project area by restoring natural hydrologic conditions that promote greater use of available freshwater and nutrients by limiting rapid water level changes, slowing water exchange through over bank flow, decreasing rapid salinity levels and reducing saltwater intrusion into the project area.

As part of the maintenance of the BA-02 project deficiencies were identified by the Office of Coastal Protection and Restoration (OCPR) and necessary maintenance work on some of the existing structures and embankments, as well as a new rock plug extension were proposed (Figures 2 & 3). In order to design the work a topographic and hydrographic survey is necessary.

#### **2.0 DESCRIPTION**

This scope of work includes completing topographic and hydrographic surveys of:

- ❖ 500ft wide and approx. 8,000ft long water bottom for a proposed rock plug extension and flotation access, and
- ❖ three (3) weir structures along Little Lake and Bay L'Ours (Structures 2, 4 and 14A),
- ❖ five (5) breached earthen embankments.

This survey will provide the necessary data to evaluate settlement of existing project features and for development of construction documents for corrective actions.

The work shall be started no later than five (5) days after a Notice to Proceed (NTP) is issued.

### **3.0 SCOPE OF WORK**

The surveying firm, hereinafter referred to as “Contracting Party”, shall provide all material, transportation, personnel and equipment necessary to perform all topographic and hydrographic surveying in accordance with the following subsections:

#### **3.1 Permission and Access**

The Contracting Party shall be required to contact the landowner to secure access permission prior to performing field work outlined in this scope of services. Rights of entry to privately owned property must be respected. Failure to adhere to this policy will be grounds for termination of contract. The contracting party shall contact Mr. Randy Moertle of Randy Moertle and Associates at (985) 856-3630 for access permission. OCPR shall be kept abreast of any communication with the landowner, and shall be provided a copy of all official written documentation pertaining to right of entry.

#### **3.2 Horizontal and Vertical Control**

The Contracting Party shall utilize existing secondary monuments which are part of the South Louisiana Coastal Wetlands (SLCW) Secondary GPS Monument Network. The Contracting Party shall use the BA02-SM-01 or BA02-SM-02 monuments to execute the topographic and hydrographic surveys. Data sheets relative to these monuments are provided in Appendix A.

#### **3.3 Topographic and Hydrographic Surveys**

The surveying tasks to be performed consist of the following:

A) A **hydrographic survey** parallel to the shoreline from the start of the existing lake rim dike structure at Breton Canal extending to Structure 4A-4B (see Figure 4), which will be used to determine flotation access dredging quantities. This survey will also be used to design the rock dike extension between the southern end of Structure 4B and Structure 4.

- a. Along the existing lake rim dike (Breton Canal to Structure 2), existing rock dike transects (from 2008 survey) shall be extended 500ft into the lake (see Appendix B, Figure B.1). Points shall be taken at intervals not exceeding 25ft.
- b. Between Structures 2 and 4 the survey transects shall be spaced approximately 500 feet (see Figure B.3).
- c. Between Structure 4 and the southern end of Structure 4A-4B (in the location of the proposed rock structure) the survey transects shall be spaced 100ft and shall be extended up to the edge of the marsh and into the lake a minimum of 500ft (see Figure B.3). The survey shall include top of bank, bottom of bank, and any breaks in the slope. The

survey shall also locate any piles, channel markers, utilities or other observable feature within the survey boundaries.

- d. Along Structure 4A-4B, lake transects shall extend from toe of structure into the lake 500ft. One (1) transect shall be located approximately mid-point of structure and one (1) transect shall be located near each end (see Figure B.3).
  - e. For Structures 2 and 4, a water bottom profile shall be surveyed through the approximate center of the weir section and along approximate centerline of channel. Channel cross sections shall also be surveyed to define bottom elevations with appx. spacing of 150ft (Structure 2) and 50ft (Structure 4) as shown in Figure B.3.
- B) **Transects for Structure 14A.** Three (3) transects shall be through the barge bay and scour pad consisting of one (1) transect at the approximate centerline of the barge bay (appx. Sta. 4+40) and one (1) transect on either side of centerline approximately 40' offset. The other transects shall be extensions of existing rock transects into Clovelly Canal and into Little Lake spaced approximately 200 feet. Transects shall extend a minimum of 200 feet beyond Structure 14A centerline on both sides. Transect survey point intervals shall not exceed 5ft and shall be taken at all points of inflection and at abrupt changes in elevation. See Figure B.4.
- C) Five (5) surveys of **earthen canal embankments** in different locations of the project area. Each survey location would include a 100ft long centerline survey along the top of the embankment with the center point in the middle of the breach and one transect located in the center of the breach extending at least 50ft to the marsh side of the centerline profile and across the canal to the opposite bank line to define the canal bottom. The profile and transect intervals shall not exceed 5ft and survey points shall be taken at all points of inflection and at abrupt changes in elevation. The five (5) breach locations are located at the approximate coordinates (See Figure 2):
- |               |              |              |
|---------------|--------------|--------------|
| Breach No. 1: | 29°29'15.9"N | 90°13'56.9"W |
| Breach No. 2: | 29°29'08.4"N | 90°14'11.1"W |
| Breach No. 3: | 29°29'06.8"N | 90°14'13.9"W |
| Breach No. 4: | 29°29'04.0"N | 90°14'50.4"W |
| Breach No. 5: | 29°29'00.1"N | 90°14'55.1"W |

## **4.0 DELIVERABLES**

### **4.1 Survey Reports**

Two (2) copies of the Survey Report are due fourteen (14) days after completion of the field work. The Survey Report shall be in Microsoft Word format and written to Project Disk. The hard copies shall be signed and stamped by the Registered/Professional Land Surveyor in the State of Louisiana who was directly involved with the project. The submitted Survey Report will be provided to MWH by OCPR and comments will be provided to the Contracting Party by MWH within one (1) week. Contracting Party shall address and respond to all MWH comments and provide final deliverables within 10 days of receiving comments, at no additional cost.

The report shall contain, but not limited to, the following information:

1. Survey Methodology in Microsoft Word format and written to the Project Disk. The hard copies shall be signed and stamped by the Registered/Professional Land Surveyor in the state of Louisiana, who was directly involved with the project. The hard copies shall be bound in the Survey Report.

The survey methodology should include the following:

- ❖ Project Description
- ❖ Planning and layout of the GPS Survey.
- ❖ Information on Secondary Monuments used as referenced stations. Include the data sheets for each monument in a separate Appendix.
- ❖ The GPS RTK survey, including quality assurance (elevation check) procedures.
- ❖ Equipment used for data collection.
- ❖ Downloading and Processing procedures. Include the methodology used for the processing and formatting of data so that QAQC measures can be followed.

2. Drawing Files shall be created for each feature with all transects and elevation shots clearly labeled and plotted using the coordinates. On the plan view, overlay the coordinate system so that the drawings is referenced to the Louisiana State Plan Coordinates, South Zone, and the North American Datum of 1983 (NAD 83) in feet. Elevations shall be referenced to the North American Vertical Datum of 1988 (NAVD 88) in feet. The drawing files shall be in AutoCAD 2004 format (\*.dwg) and written to the compact disk (CD). The hard copy shall be half size (11 x17), folded to 8½" x 11", and bounded in the final survey report.

The information to be included on the Project Drawings will be as follows:

- ❖ Official Project Name: GIWW to Clovelly Hydrologic Restoration Project (BA-02), Maintenance Project
  - ❖ Contracting Party Name
  - ❖ Digital aerial with project features, monuments, profiles, transects and elevation shots plotted correctly.
  - ❖ Description of reference monuments
  - ❖ Field Book Numbers
  - ❖ Horizontal and Vertical Datum
  - ❖ Survey Date
  - ❖ Drawing Date
  - ❖ Drawings Scale
    - Lake Rim Dike and Structure 14B centerline profiles shall be shown at 1in:100ft horizontal scale and 1in:10ft vertical scale. All matchlines to be clearly indicated.
    - Structures 2 and 4 centerline profiles shall be shown at 1in:20ft horizontal scale and 1in:10ft vertical scale.
    - All Transects to be shown at 1in:20ft horizontal scale (except the three Structure 14B scour pad transects, which are to be shown at 1in:40ft horizontal scale) and 1in:10ft vertical scale.
    - All transects shall be shown with the profile centerline at sta. 0+00 (with positive values indicating lakeside and negative values indicating landside). Where multiple transects are plotted on a single page, the profile centerline (sta. 0+00) shall align vertically.
    - Hydrographic Survey shall be shown in plan view at 1in:100ft scale, with major lakebed contours at 5-ft intervals and minor lakebed contours at 1-ft intervals. All match lines to be clearly indicated. Existing structures 4B and 4 shall be clearly shown
  - ❖ North Arrow
3. Survey Data shall be reported in Microsoft Excel format arranged in columns and written to the Project Disk. The data file shall include the following columns: profile/cross section designation or station, point number, northing, easting, elevation, date and time of shot, and description. The survey coordinate data shall be reported in Louisiana State Plane Coordinates, South Zone in feet referenced to the North American Datum of 1983 (NAD 83). The survey elevation data shall be referenced to the North American Vertical Data of 1988 (NAVD 88) in feet. In addition to the Excel file the data shall also be submitted as a DTM file and written to the Project Disk.
  4. Field Notebook Records – All field survey information should be documented and recorded neatly and legibly in a transit field book. The field notebooks shall be scanned into a digital format and written to the Project Disk.

The information to be included in the field notebook is as follows:

- ❖ Project Name
- ❖ Date of Survey
- ❖ Water level reading, weather conditions, and temperatures
- ❖ Crew members
- ❖ Monument Name and description
- ❖ Profile and Cross Section Number
- ❖ Sketches of points along the labeled profile or cross section showing any proximate physical features such as the shoreline, marsh edge, project structures, etc. (include North Arrow)

#### **4.2 Project Disk**

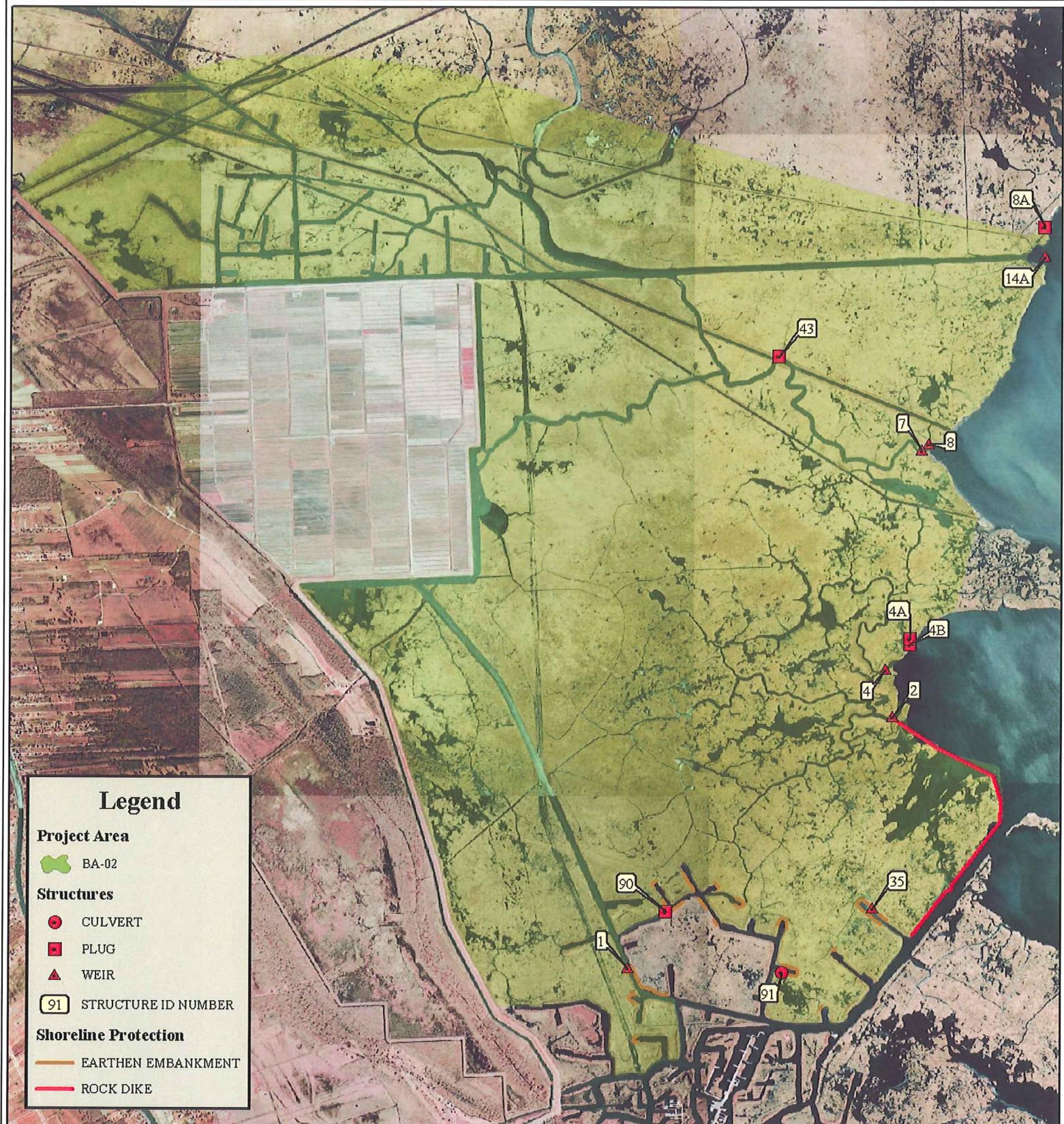
Two (2) copies of the Project Disk shall be submitted with the final copies of the Survey Report.

The Contracting Party shall prepare and transmit the deliverables described above to the following OCPR representative:

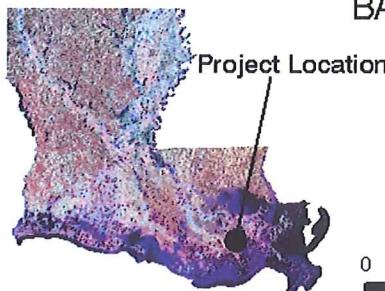
Daniel Dearmond, P.E.  
OCPR Thibodaux Field Office  
1440 Tiger Dr. Suite B  
Thibodaux, LA 70301

#### **5.0 CERTIFICATION**

All deliverables shall be certified by a professional land surveyor licensed by the State of Louisiana.



## BA02 - GIWW to Clovelly Hydrologic Restoration



### PROJECT FEATURES MAP

0 1 2 Miles

0 2.5 5 Kilometers



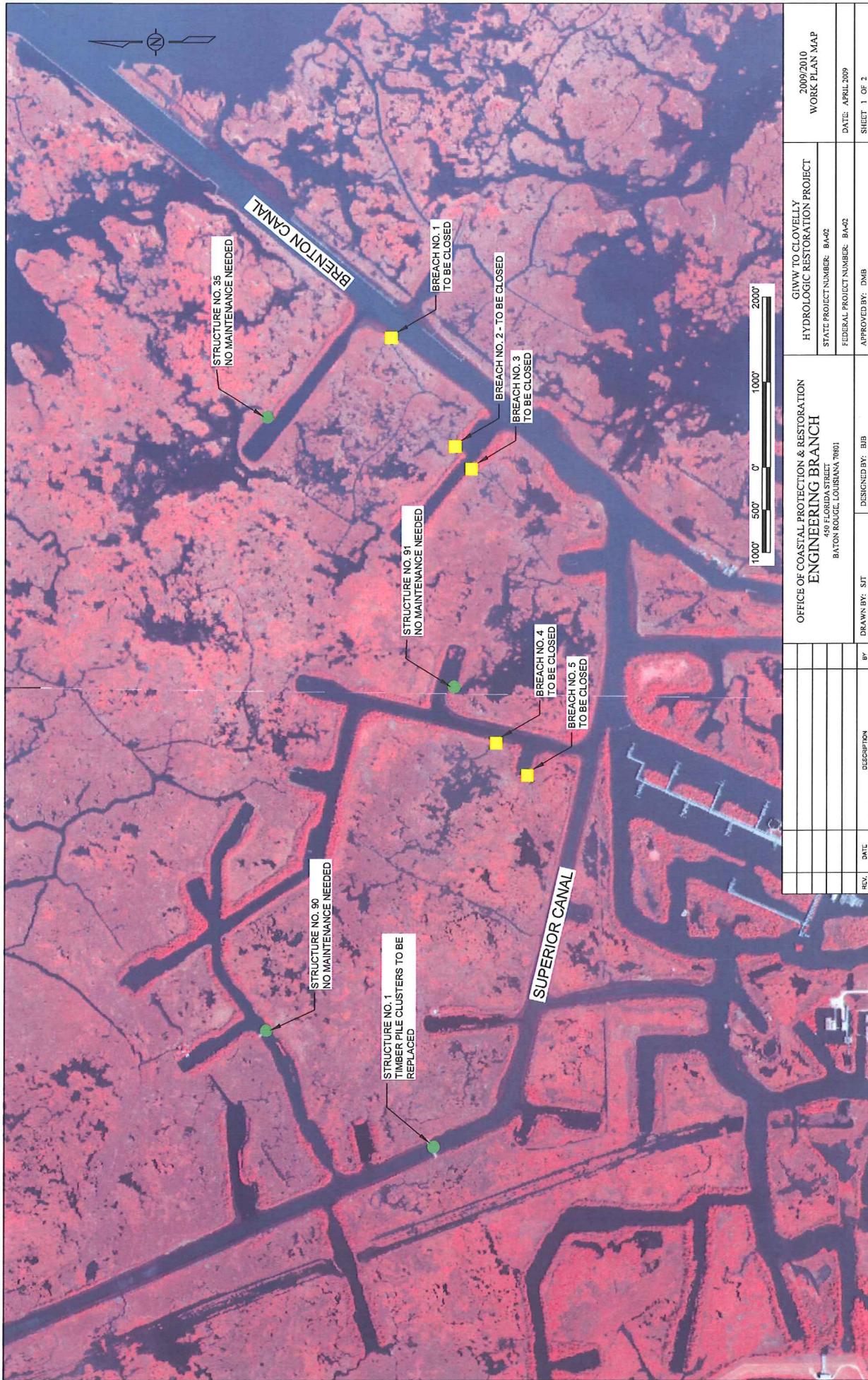
Data Source:

LA Dept. Natural Resources  
Coastal Engineering Division  
Thibodaux Field Office

1998 DOQQ

Date: May 26, 2005

Map ID: 2005-TFO-029



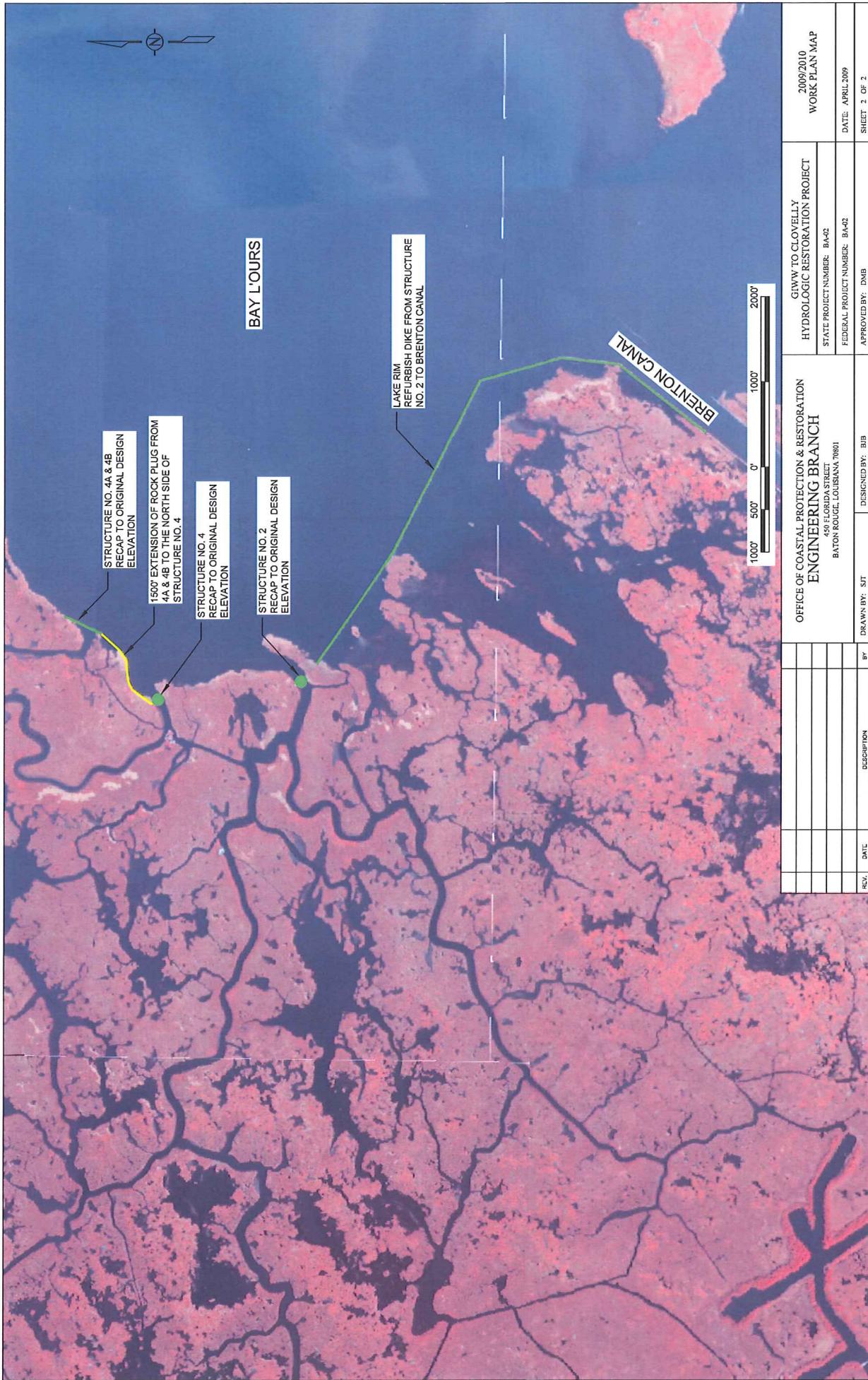
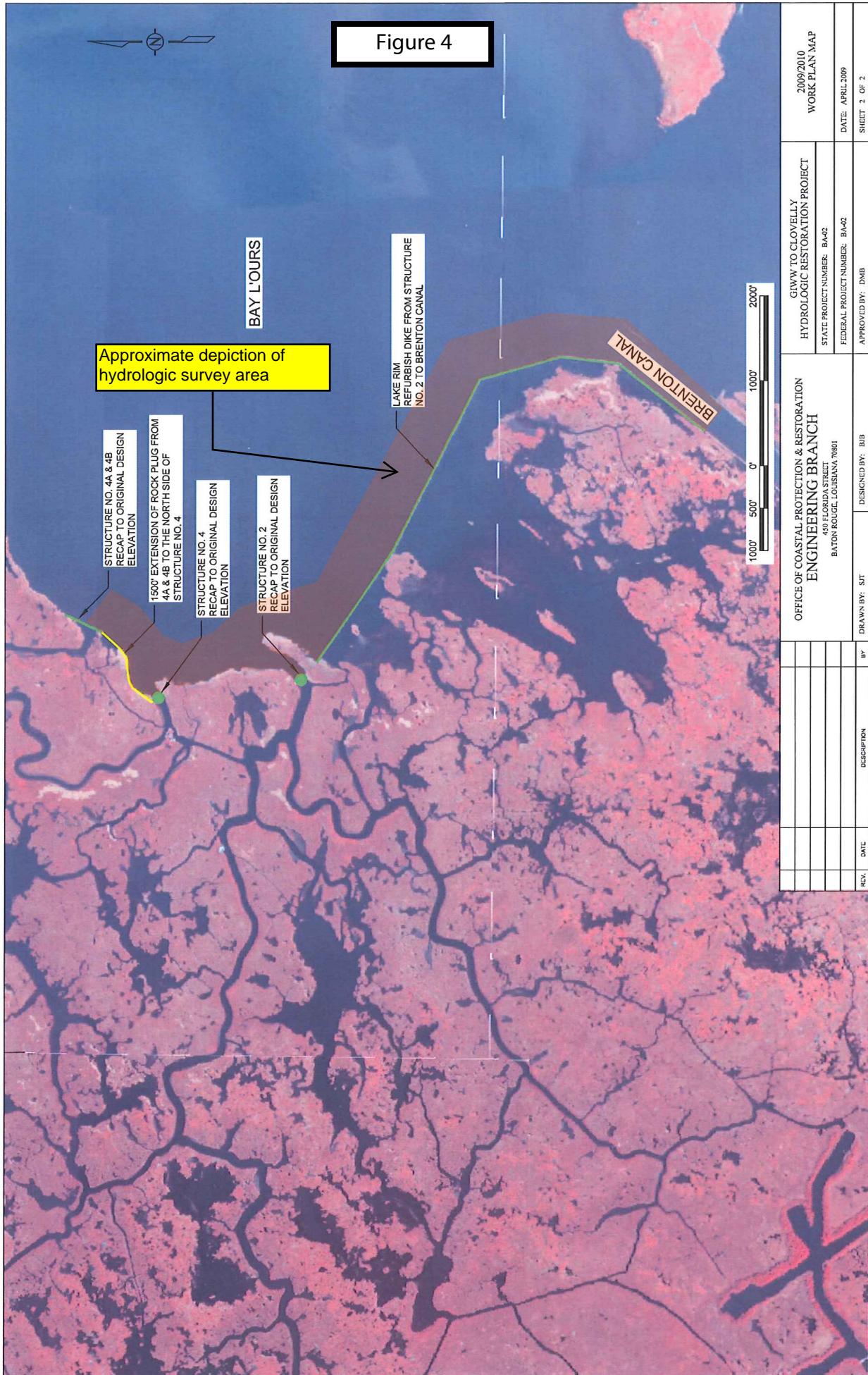
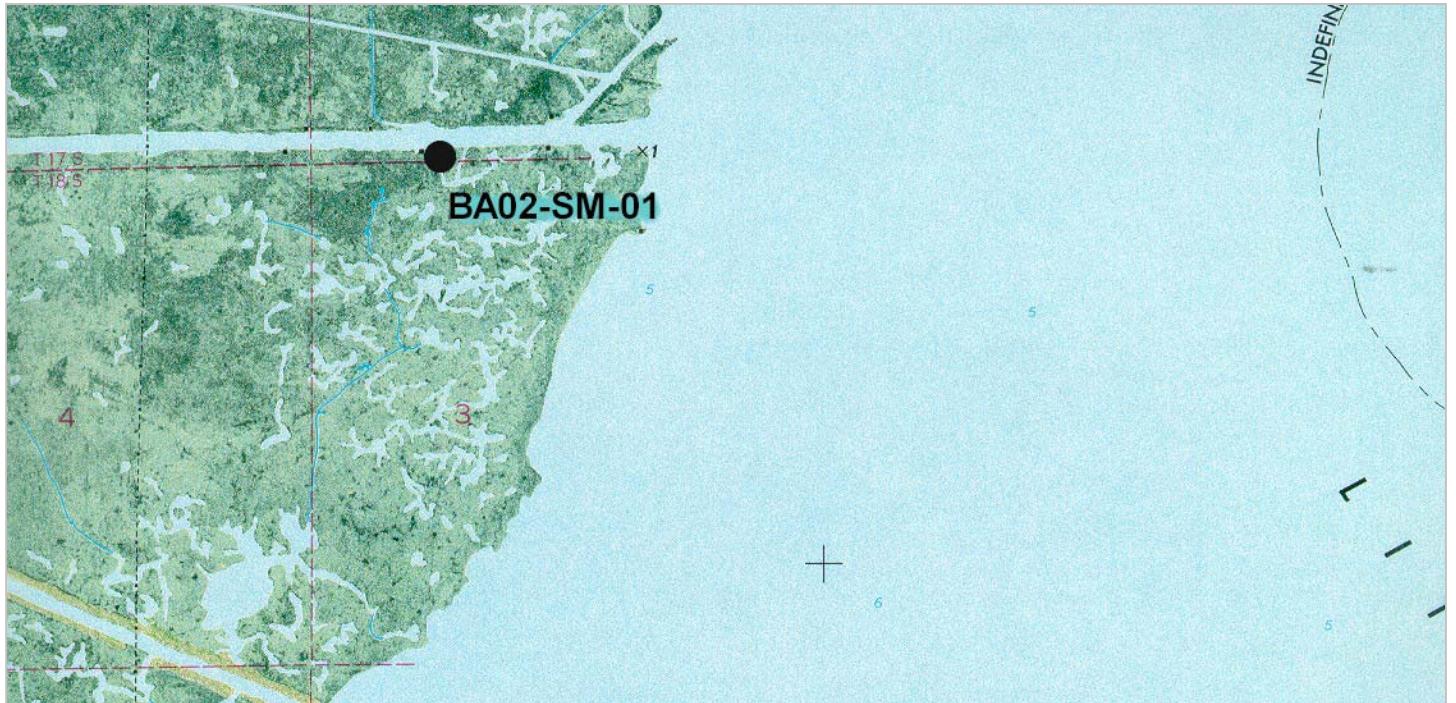


Figure 4



## **APPENDIX A**



## VICINITY MAP

Scale: 1" = 2000'

Reproduced from USC&GS "Bay L'ours, LA" Quadrangle

## Station Name: "BA02-SM-01"

**Location:** From La Highway 308 at Cutoff, Louisiana, proceed east on east 36th Street for approximately 5 miles and follow the signs for North Dock. Once at the boat landing, by boat, proceed approximately 2.8 miles east to a green camp and the monument.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 65 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA02-SM-01



**Installation Date:** 12/11/02 **Date of Survey:** January 2003

**Monument Established By:** John Chance Land Surveys, Inc.

**For:** Louisiana Department of Natural Resources, CRD

### Adjusted NAD 83 Geodetic Position

Lat.  $29^{\circ} 33' 12.997242''$  N

Long.  $90^{\circ} 13' 19.882115''$  W



### Adjusted NAD 83 Datum LSZ (1702) Feet

N= 384,874.42

E= 3,634,114.36

### Adjusted NAVD88 Height

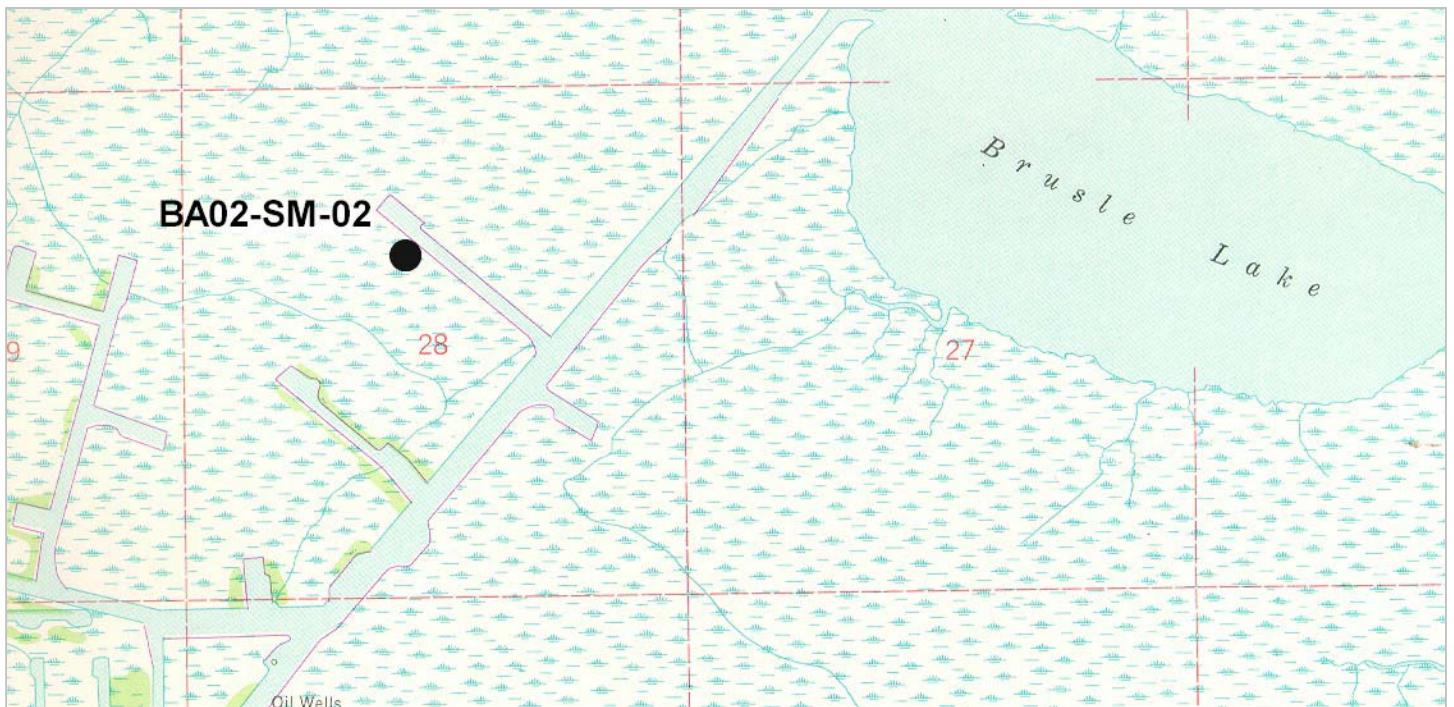
Elevation = 1.44 feet (0.440 mtrs)

Geoid99 Height = -25.095 mtrs.

Ellipsoid Height = -24.655 mtrs.

Adjusted CORS Height = 1.41 ft (0.431 mtrs)

*Adjusted Position Established for Louisiana Department of Natural Resources, Coastal Restoration Division*



## VICINITY MAP

Scale: 1" = 2000'

Reproduced from USC&GS "Golden Meadow Farm, LA" Quadrangle

## Station Name: "BA02-SM-02"

**Location:** From La Highway 308 at Cutoff, Louisiana, proceed east on east 36th Street for approximately 5 miles and follow the signs for North Dock. Once at the boat landing, by boat, proceed approximately 3 miles east to Little Lake. Turn right and proceed southeasterly in Little Lake for about 3 miles around a point, then southwesterly for about 2.5 miles to a Slip Canal at Clovelly Oil and Gas Field, then about 1.5 miles in the Slip Canal to a Canal on the right. Turn right and proceed northwesterly in the Canal for about 2000 feet to the monument on the left.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 52 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA02-SM-02

**Installation Date:** 12/11/02 **Date of Survey:** January 2003

**Monument Established By:** John Chance Land Surveys, Inc.

**For:** Louisiana Department of Natural Resources, CRD

### Adjusted NAD 83 Geodetic Position

Lat.  $29^{\circ} 29' 26.264853''$  N

Long.  $90^{\circ} 14' 05.347549''$  W

### Adjusted NAD 83 Datum LSZ (1702) Feet

N= 361,933.78

E= 3,630,318.64

### Adjusted NAVD88 Height

Elevation = 2.97 feet (0.906 mtrs)

Geoid99 Height = -24.944 mtrs.

Ellipsoid Height = -24.038 mtrs.

Adjusted CORS Height = 2.93 ft (0.894 mtrs)



## **APPENDIX B**

T18S-R22E

SEC. 016

SEC. 015

SEC. 021

SEC. 022

EXTEND EXISTING LAKE  
RIM TRANSECTS TO 500'

ADD TRANSECT STA. 40+00

Note: See baseline  
coordinate data on  
next sheet.

FIGURE B.1

**PLAN VIEW**

Scale = 1":500'

GRID NORTH

Coastal Protection & Restoration  
Authority of Louisiana, SCPP

GIWW to Clovelly Hydrologic Restoration (EA-02)

**LAKE RIM**

LAFOURCHE PARISH, LOUISIANA

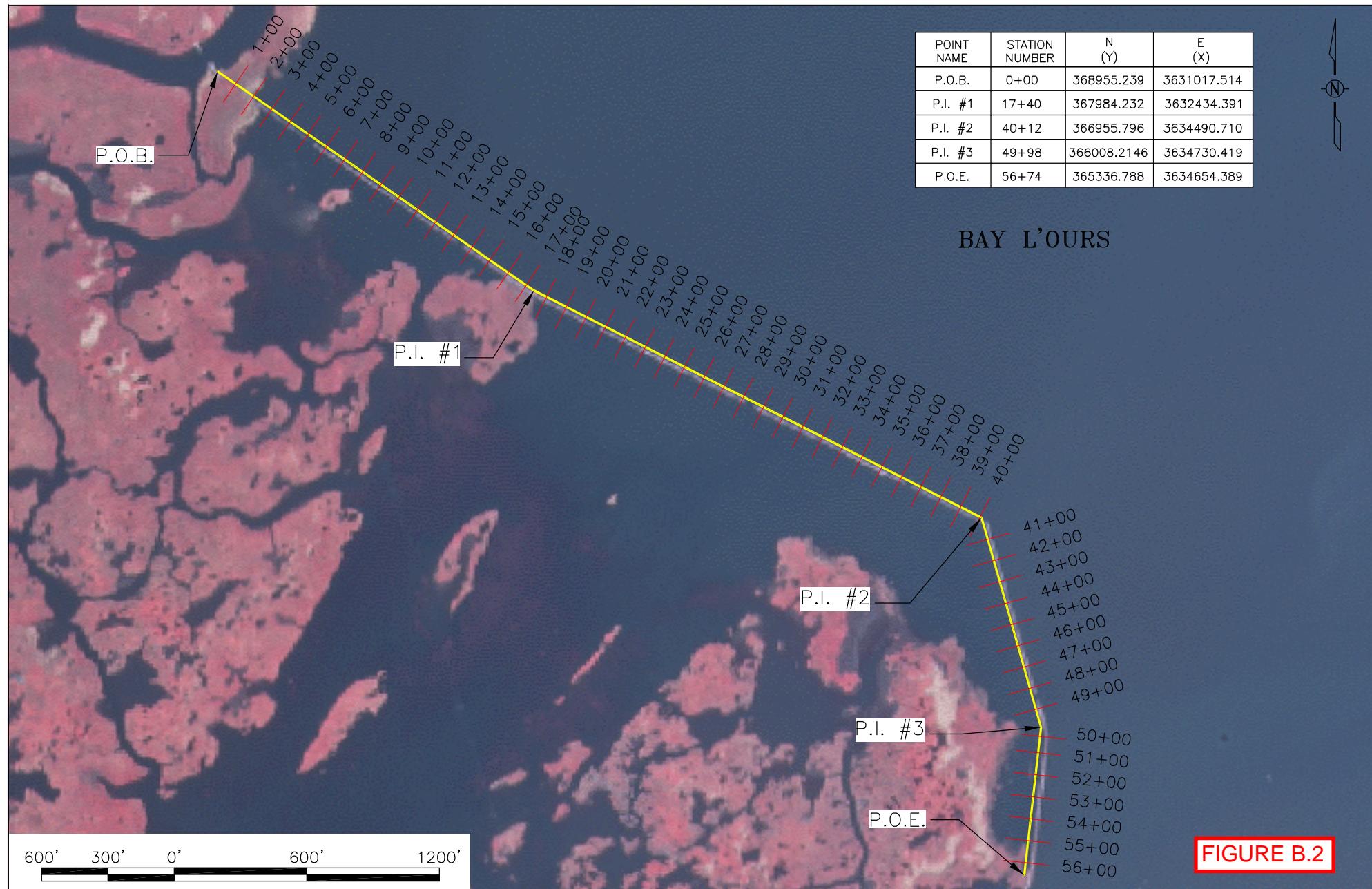
**JOHN CHANCE**  
LAND SURVEYS, INC.



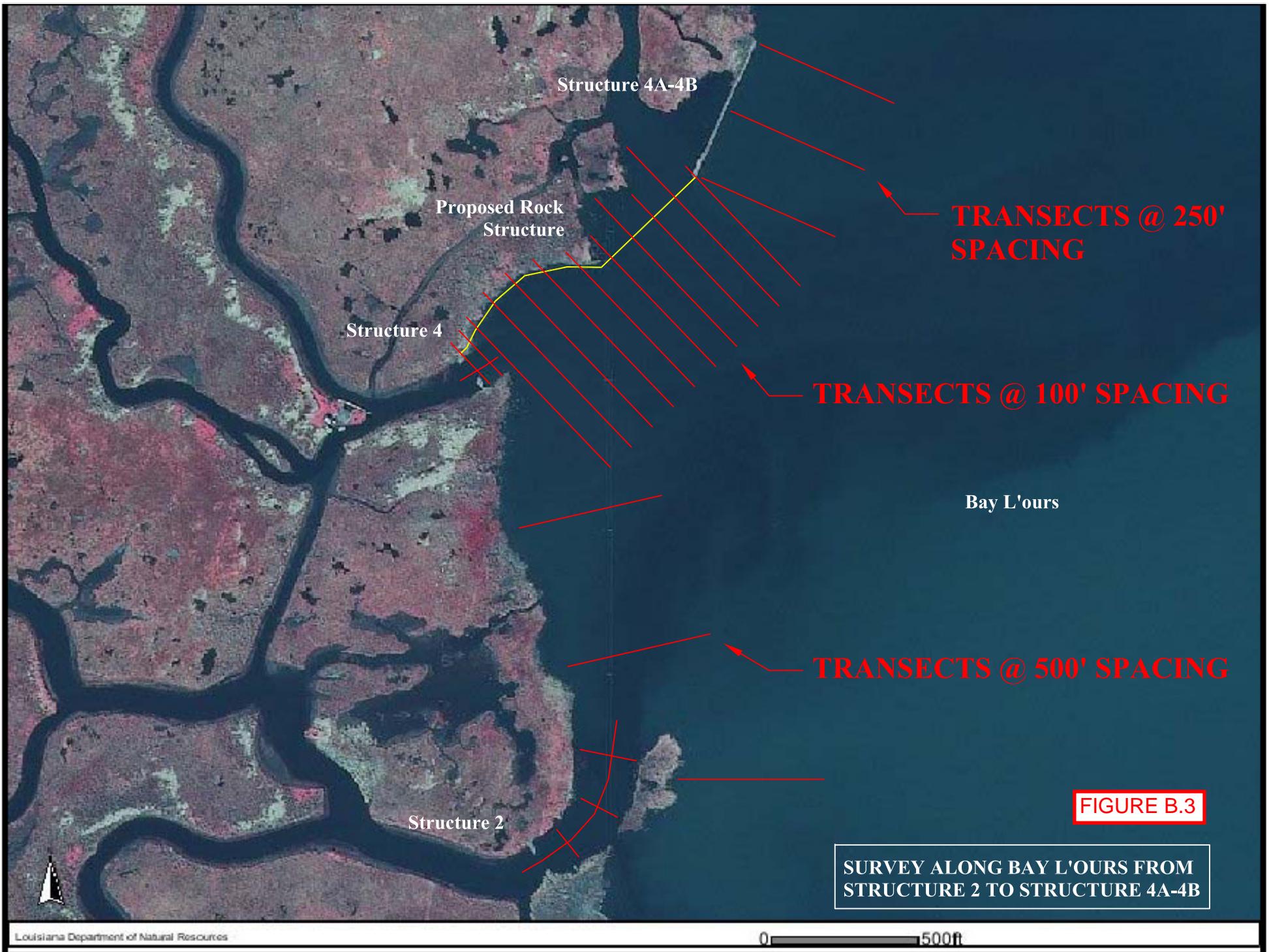
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ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

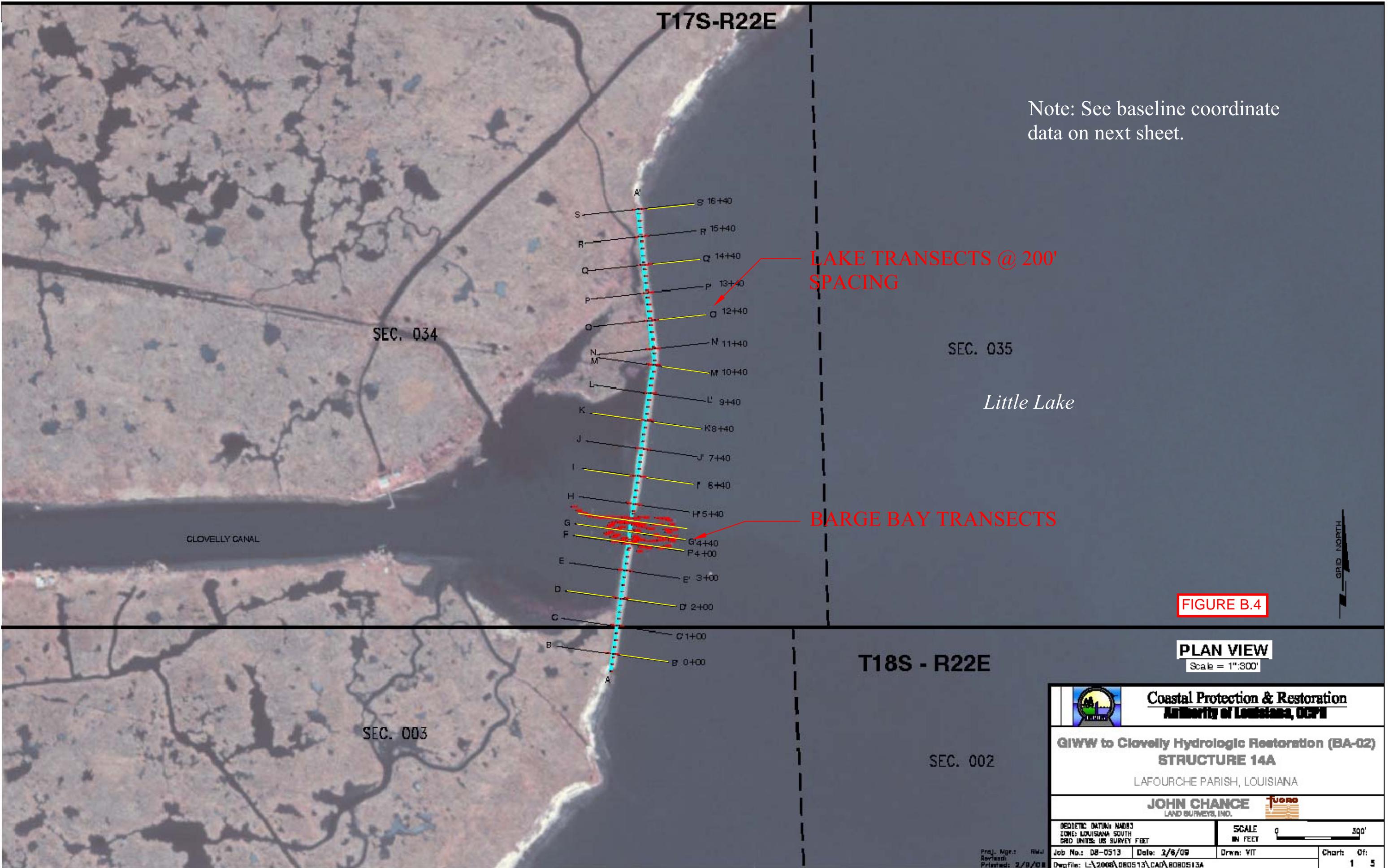
SCALE  
0  
IN FEET  
500'

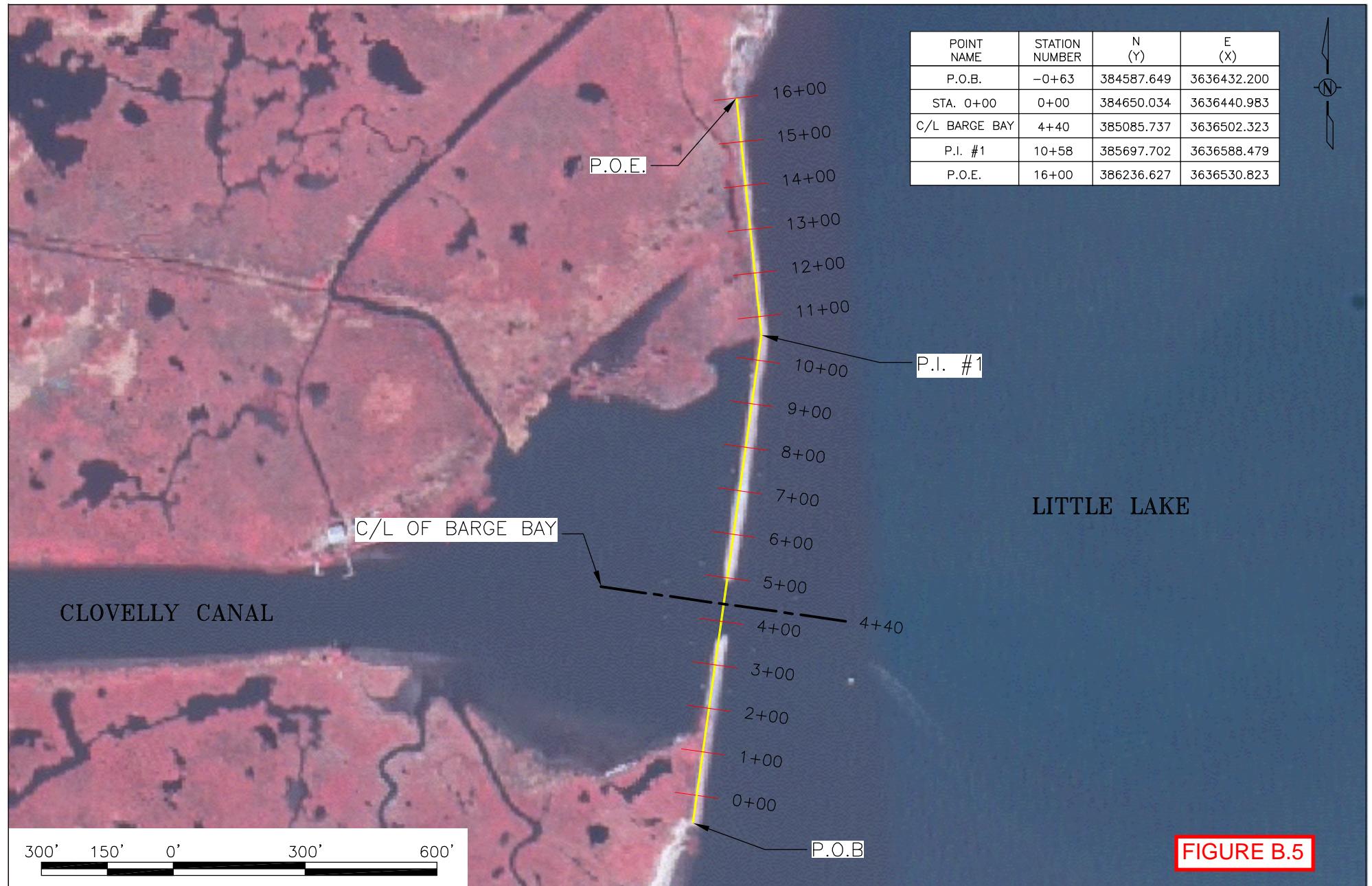
Proj. Mgr.: RMJ	Date: 2/6/09	Drawn: VIT	Chart: 0:
Reviewed: 2/6/09	Printed: 2/6/09	Dwg File: LA_2008\080513\CAD\080513	1 4



	<b>LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION</b> 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	GIWW to Clovelly Hydrologic Restoration Project (BA-02) Maintenance Survey		Lake Rim Shoreline Protection
DRAWN BY: S. Triche	DESIGNED BY: B. Babin	STATE PROJECT NUMBER: BA-02		DATE: March 2008
APPROVED BY: D. Burkholder	FEDERAL PROJECT NUMBER: BA-02	SHEET	OF	







	LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	GIWW to Clovelly Hydrologic Restoration Project (BA-02) MAINTENANCE SURVEY	Structure 14A
DRAWN BY: S. Triche	DESIGNED BY: B. Babin	STATE PROJECT NUMBER: BA-02	DATE: March 2008
APPROVED BY: D. Burkholder	FEDERAL PROJECT NUMBER: BA-02	SHEET OF	

**ADDENDUM TO  
SCOPE OF SERVICES FOR HYDROGRAPHIC/TOPOGRAPHIC SURVEY**

**GIWW TO CLOVELLY HYDROLOGIC RESTORATION (BA-02)  
MAINTENANCE PROJECT  
LAFOURCHE PARISH, LOUISIANA**

May 2010

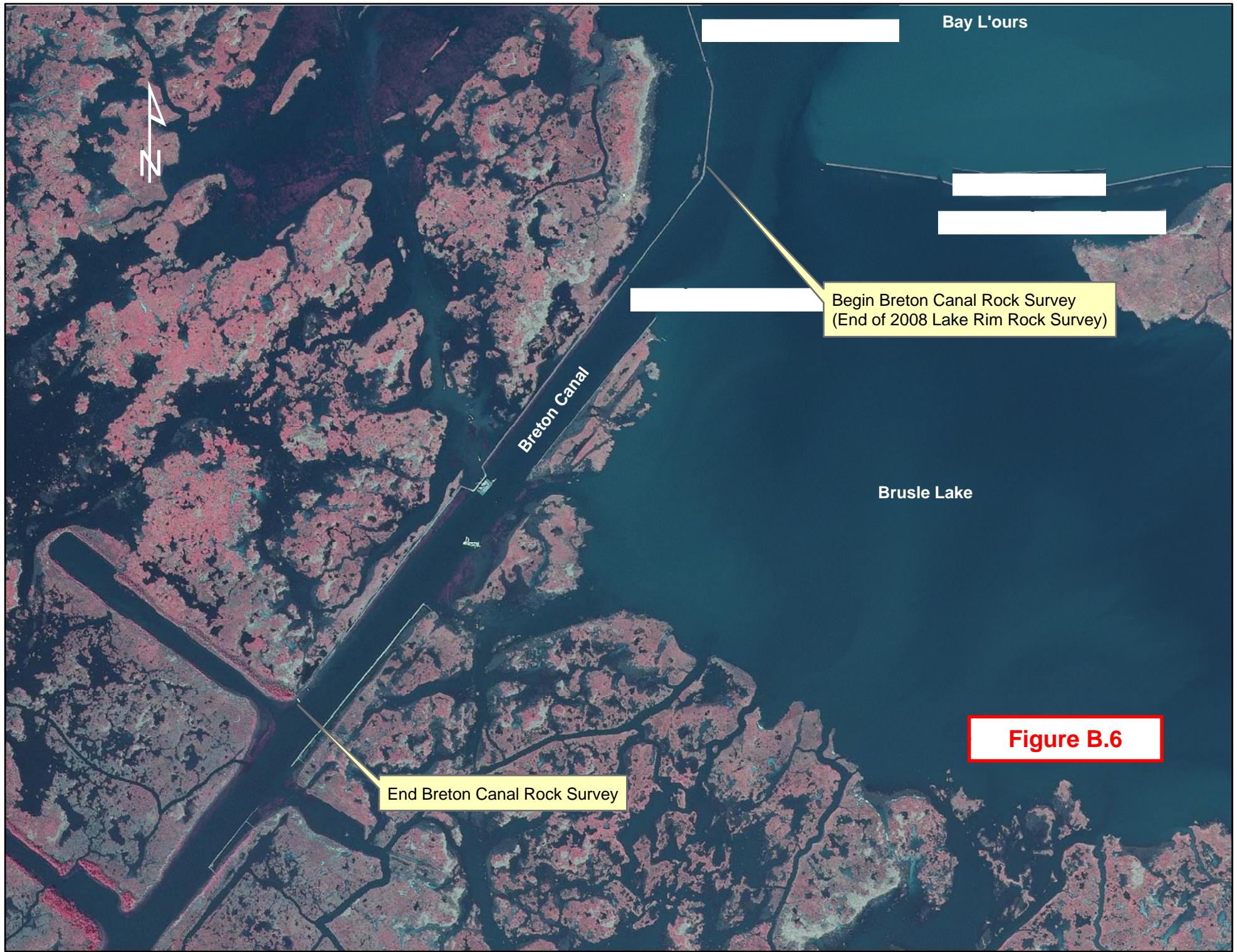
The following will be added to the Scope of Services for the BA-02 Maintenance Project survey dated April 2010.

**3.3 Topographic and Hydrographic Surveys**

- D) Centerline profile and transects of the rock dike located along the north bank of Breton Canal. The survey shall begin where the 2008 survey ended along the lake rim rock dike and continue to the end of the Breton Canal rock.

The profile of the dike shall be taken along the centerline at a maximum of 25 ft. intervals and all points of inflections (PI's) or abrupt changes in elevation beginning at approximately Sta. 3+40 (= Sta. 56+65 lake rim dike) and ending at Sta. 54+03 (end of Breton Canal rock).

The transects of the dike shall be taken at 500 ft. intervals beginning at Sta. 3+40 and ending at Sta. 54+03. All transects shall extend approximately 20 ft. beyond the toe of the rock dike on the marsh side and approximately 100 ft. beyond the toe of the rock dike on the canal side.



## **SECTION B**

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### **Methodology Report**

# SURVEY METHODOLOGY REPORT

Prepared for the  
**Coastal Protection & Restoration Authority of Louisiana,  
Office of Coastal Protection & Restoration**  
in Support of  
**GIWW to Clovelly Hydrologic Restoration (BA-02)  
Maintenance Project**  
Lafourche Parish, Louisiana

August 2010

## **INTRODUCTION**

The GIWW to Clovelly Hydrologic Restoration Project (BA-02) consist of approximately 14,948 acres located in the Barataria Basin near the Gulf Intracoastal Waterway (GIWW) in Lafourche Parish. The project is bounded by the GIWW to the north and to the northeast, Bayou Lafourche to the west, Superior Canal to the south and Bayou Perot, Little Lake and Bay L' Ours to the east. Construction Unit No.1 of this project was completed in November 1997 and consisted of the construction of 8 structures west of Little Lake and Bay L'Ours that included three (3) rock plugs, four (4) rock weirs and a rock plug with corrugated metal pipe and flap gate (Figure 1). Construction Unit No.2 was completed in October 2000 and included the installation of two (2) rock plugs, two (2) additional rock weirs, one (1) variable crest sheet pile structure, 5,665 linear feet of shoreline protection on the southwest bank of Bay L' Ours, 11,700 linear feet of earth stabilization and 5,000 linear feet of rock bank stabilization (Figure 1). The project objective is to protect intermediate marsh in the project area by restoring natural hydrologic conditions that promote greater use of available freshwater and nutrients by limiting rapid water level changes, slowing water exchange through over bank flow, decreasing rapid salinity levels and reducing saltwater intrusion into the project area.



As part of the maintenance of the BA-02 project deficiencies were identified by the Office of Coastal Protection and Restoration (OCPR) and necessary maintenance work on some of the existing structures and embankments, as well as a new rock plug extension were proposed. In order to design the work, a topographic and hydrographic survey is necessary.

## **DESCRIPTION**

This scope of work includes completing a topographic and hydrographic surveys of: 500 foot wide and approximately 8,000 foot long water bottom for a proposed rock plug extension and flotation access; four weir structures along Little Lake and Bay L' Ours (Structures 2, 4, 4A-4B, and #14A); centerline profile and transects of existing rock dike located along the north bank of Breton Canal; and survey transects at five breached earthen embankments.

## **Reference Monument recon and Static GPS Survey**

The Scope of Work required that an existing Deep Rod monument be relocated and utilized as the reference control monument for this project. As was the case in the 2008 survey, a survey crew from John Chance Land

Surveys, Inc. (JCLS) located an existing deep rod reference monument on Thursday, May 27, 2010. Upon locating monument "BA02-SM-01" at the south bank of Clovelly Canal, static GPS observations were performed concurrently with RTK survey of topographic features along Structure 14A transects. A two-meter

A fixed height tripod was used to eliminate human error that could have been introduced by miss-measurement of the GPS antenna heights. Information about the static GPS session was referenced on a GPS Logsheet and made a part of this report. Additionally, static GPS was performed at monument "BA02-SM-02" while a survey crew collected topographic measurements along transects at the Lake Rim, Structures 2, 4, 4A-4B, and the survey of breaches.



During each GPS session, a raw data file was created on the GPS receiver. The monument name, Julian date, session number and antenna height was keyed into the receiver. The survey technician completed a GPS log sheet, while in the field, to document information about the survey as well as other pertinent monument details. Information on the log sheets included the monument stamping, reference sketch and reference measurements, actual survey start and stop times, the GPS antenna height measurements, weather conditions, satellite information as well as any problems that may be encountered during the survey. The log sheets also serve as a quality control check for the data processor when the data is downloaded from the GPS receiver, confirming that the monument names and antennas heights were keyed in correctly.

## RTK Survey of Topographic Features at Structure Transects and Profiles

On Thursday, May 27, 2010 topographic features at pre-planned transect lines were performed by the survey crew utilizing Real-time Kinematic (RTK) surveys. Upon arriving at the location in a marine vessel, the RTK Base unit was installed at monument "BA02-SM-01". Once all necessary equipment is installed, the base unit will be initialized with its coordinates and elevation. A quality control shot was measured near the base monument with the roving unit to verify that the system was operational and delivering corrected positions. The base unit was then activated to begin additional static data collection while simultaneously transmitting DGPS corrections to the RTK rover. The crew then navigated to pre-plotted transect locations to survey the topographic features.

The topographic surveying tasks that were performed consisted and transects of the foreshore lake rim located along the west shoreline of Bay L' Ours and Structures 2, 4, 4A, 4B, and 14A. Transects along the Lake Rim were surveyed from the existing Rock centerline profile and extended 500 feet into the lake beginning at Sta. 0+00, near Structure No. 2 and ending at Sta. 106+53 in Breton Canal.

For the 2008 survey, the centerline profile of the rock weirs features (Structures 2, 4, 4A-4B) were taken at 5 ft. intervals including all PI's. Survey of the profiles extended approximately 10 feet beyond the rock structure on both sides. Transects of the rock weirs were also taken perpendicular to the boat bay and the fixed crest section on each side of the structure and extended approximately 10 feet beyond the toe of the rock structure.



The profile of Structure 14A was taken along the centerline at approximately 25 foot intervals and all points of inflections (PI's) and other low points beginning at Sta. -00+63 and ending at Sta. 16+00. The transects of

Structure 14A were surveyed at Stations 1+00, 3+00, 4+40, 6+00, 9+00, 12+00, 14+00 and 16+00. In the 2008 survey, transects extended approximately 10 feet beyond the toe of the existing rock dike on both the bay and marsh sides. For the current survey, the survey limits were extended to 200 feet either side of the existing rock structures.

For the Lake Rim Rock Structure, transects were extended beyond the existing Structure for a distance of 500 feet into the lake. Centerline profile of the Lake Rim Rocks were surveyed from Station 0+00 to Station 56+55 in the 2008 survey. The rock centerline profiles were extended to include Breton Canal from Station 56+55 to Station 106+53 for the 2010 survey. Transects were taken at 500 foot intervals with RTK to approximately 4 foot water depth. Multibeam surveys were performed to complete the survey of the water bottoms within the canal.

Transects were navigated to and topographic features surveyed using the RTK system. Pre-plotted cross sections were navigated to and cross-sections surveyed across the rock dikes to the required survey limits. Cross-sections and profiles were also taken across all fish dips on the Lake Rim Rocks. Upon completion of the topographic survey, the data logger was downloaded and the information checked.

### **GPS Data Downloading, Processing & Adjustments**

Upon completing the static GPS survey, GPS log sheets were checked and compared to the data files on the receivers. The raw GPS data was then downloaded into the project file created in Trimble Geomatics Office (TGO) software and converted to RINEX format for uploading to the NGS Online Positioning User Service (OPUS) Program<sup>1</sup> for an independent solution and comparisons made with the adjusted published results.

For the 2008 survey, the positions and elevations for monument "BA01-SM-01" and "BA02-SM-02" had been re-adjusted to conform to the latest NGS 2006.81 Louisiana Height Modernization Survey<sup>2</sup> (NAVD88-2006.81) using GEOID03 file #7 (2004.65)<sup>3</sup>. It was decided that all orthometric survey results be referenced Geoid03 (2004.65) instead of Geoid99. The same methodology was followed for the 2010 survey.

### **GPS and RTK Survey Equipment**

The equipment used for the static GPS survey consisted of a Trimble<sup>®</sup> Navigation's dual-frequency R7 GPS receiver along with an external Zephyr Geodetic antenna with ground plate. A two-meter fixed height tripods were used to eliminate human error that could be introduced by miss-measurement of the GPS antenna heights. The GPS data was downloaded, processed and adjusted using Trimble<sup>®</sup> Geomatics Office Software. Geoid99 model was used to determine the geoid separation and applied to the ellipsoid heights for elevation determination as specified in the scope.

The Real-time Kinematic (RTK) survey consists of two Trimble<sup>®</sup> Navigation's dual-frequency GPS receivers (base and rover) along with external Zephyr GPS antennas and a Pacific Crest radio link to transmit corrections to the rover from the base setup. A two-meter fixed height tripod was used at the base and a two meter fixed height rod at the rover, except for shots taken in deeper water which required an extended pole. The data was collected and stored on a Trimble<sup>®</sup> TSC2 datalogger, version 12.40 and downloaded using Trimble<sup>®</sup> Geomatics Office (TGO), version 1.63.

### **Single Beam Hydrographic Survey of Water Bottoms**

<sup>1</sup> The National Geodetic Survey operates the On-line Positioning User Service (OPUS) as a means to provide GPS users easier access to the National Spatial Reference System (NSRS). OPUS allows users to submit their GPS data files to NGS, where the data will be processed to determine a position using NGS computers and software. Each data file that is submitted will be processed with respect to 3 CORS sites.

<sup>2</sup> The current Height Modernization project for South Louisiana is a partnership between FEMA, the Louisiana Spatial Reference Center (LSRC) at Louisiana State University (LSU), and NOAA'S National Geodetic Survey (NGS). The project includes a number of different components such as the re-observing of the control marks updated last Fall (99–2004.65 marks), the update or establishment of additional control points in all 27 parishes (approx. 225 marks), a small amount of leveling, GPS observations, gravity observations, additional LSU / NGS established CORS, a pilot multi-base RTK network in the SE portion of the state, and the establishment of several new NOAA tide stations. There are a total of 330 control marks (not counting CORS) that were observed and now have updated coordinate values and ellipsoid heights.

<sup>3</sup> GEOID03 is a refined model of the geoid in the conterminous United States (CONUS), which supersedes the previous models GEOID90, GEOID93, GEOID96, and GEOID99. Note that the GEOID03 file #7, which covers the coastal Louisiana, has been modified. It has been updated based on the most recent VTDP model for the region to better reflect the actual orthometric heights at the benchmarks.

Single-beam hydrographic survey to locate water bottoms within Clovelly Canal near Structure 14A and adjacent to Structures 2, 4, 4A-4B, and five breaches was performed by keying-in the transect end point coordinates to generate the pre-plot transect line into the onboard navigation program integrated with a single beam Hydrotrak system. Water surface shots were taken occasionally using RTK to obtain the elevation relative to NAVD88. These water shots were time tagged to correlate with real-time tide gage readings at USGS Gage 07380335 in Little Lake for determination of a correction factor in the post processing stage.

Back at the office, all the raw data was imported into Starfix.nav program, which includes the raw bathymetry data, the corrected tide file, and the CRP/transducer offset file. The RTK water surface shots were applied to the sounder data to correct the water depths. A graphic file was generated so that the digital sounder data could be "despiked" to remove outliers. The final adjusted and edited file was exported in ascii format.

### **Bathymetric Survey Equipment**

Sub-meter horizontal positioning was logged real-time using a Trimble AG332 GPS Receiver integrated with OmniStar for DGPS corrections. The 24-foot marine vessel was equipped with a Hydrotrak portable echo sounder. Using JCLS proprietary software called StarFix.nav, all data was digitally logged real-time, while Hydrotrak simultaneous charted the water depths on a paper scroll.

### **Multibeam Hydrographic Survey of Water Bottoms**

Multibeam hydrographic surveys were performed in Clovelly Canal and Breton Canal to map existing water bottoms to generate contours and for completing cross-section transects that were surveyed with RTK. JCLS utilized the Systems Engineering & Assessment SWATHplus interformetric multibeam system to acquire all hydrographic data that was needed to meet the goals of the survey. System accuracy of the 468 kHz SWATHplus exceeds the latest International Hydrographic Organization (IHO) specifications as set forth in IHO Standards for Hydrographic Surveys, Special Publication 44, 4th Edition, April 1998.

In order to compensate for vessel pitch, roll, pitch, and heave, attitude parameters and positioning were input to the SWATHplus system via CodaOctopus F190 Attitude and Positioning System. Field quality assurance and quality checks pertaining to bathymetric measurements were obtained by comparing Odom Hydrotrak single beam echosounder measurements to the measurements obtained through the SWATHplus system. Additionally, an Odom Digibar Pro velocimeter was used to determine water column sound velocities which were input into the SWATHplus acquisition software for applied corrections.

### **FINAL NOTE**

Please be advised that the static GPS data which was collected during the survey of this project only represent an epoch, a snapshot at the time that the survey was performed. Due to the effects of crustal motion, subsidence, upheaval, drought and other conditions which influence the physical position and stability of surface monuments and other structures within the Louisiana Coastal Zone, it is recommended that GPS monuments within this network be periodically re-surveyed for the purpose of verifying the three dimensional position of the reference monuments included in this survey.

The GPS Survey protocols performed in support of this project was in accordance with the Coastal Protection & Restoration Authority of Louisiana, Office of Coastal Protection & Restoration requirements (Formerly the Louisiana Department of Natural Resources, Coastal Engineering Division) described in "*A Contractor's Guide to Minimum Standards Required by Louisiana Department of Natural Resources, Coastal Restoration Division for Contractor's Performing GPS Surveys and Establishing GPS Derived Orthometric Heights Within the Louisiana Coastal Zone Primary GPS Network*" dated May 2007.

**JOHN CHANCE LAND SURVEYS, INC.**



Ricardo M. Johnson, PLS LA Reg. 4767  
Project Manager

## **SECTION C**

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### **Static GPS & OPUS Solutions**

GPS Logsheets

OPUS Solutions

Monument Datasheets

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 11:09 AM  
**To:** Johnson, Ricardo  
**Subject:** OPUS solution : 13101470.DAT 000057144

FILE: 13101470.DAT 000057144

### NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 1310147q.10o TIME: 16:08:44 UTC

SOFTWARE: page5 0909.08 master11.pl 081023 START: 2010/05/27 16:28:00  
EPHEMERIS: igs15854.eph [precise] STOP: 2010/05/27 21:01:00  
NAV FILE: brdc1470.10n OBS USED: 9654 / 10161 : 95%  
ANT NAME: TRM57971.00 NONE # FIXED AMB: 62 / 73 : 85%  
ARP HEIGHT: 2.000 OVERALL RMS: 0.023(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.4021)

X: -21533.378(m) 0.008(m) -21534.087(m) 0.008(m)  
Y: -5552767.070(m) 0.011(m) -5552765.573(m) 0.011(m)  
Z: 3127413.205(m) 0.033(m) 3127412.998(m) 0.033(m)  
  
LAT: 29 33 12.99771 0.035(m) 29 33 13.01580 0.035(m)  
E LON: 269 46 40.11848 0.008(m) 269 46 40.09193 0.008(m)  
W LON: 90 13 19.88152 0.008(m) 90 13 19.90807 0.008(m)  
EL HGT: -24.700(m) 0.010(m) -26.101(m) 0.010(m)  
ORTHO HGT: 0.255(m) 0.010(m) [NAVD88 (Computed using GEOID03)]

UTM COORDINATES STATE PLANE COORDINATES  
UTM (Zone 15) SPC (1702 LA S)  
Northing (Y) [meters] 3272543.267 117309.973  
Easting (X) [meters] 769158.844 1107680.289  
Convergence [degrees] 1.37094629 0.55558611  
Point Scale 1.00049400 0.99995601  
Combined Factor 1.00049788 0.99995989

US NATIONAL GRID DESIGNATOR: 15RYN6915872543(NAD 83)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DF5771	LMCN LUMCON CORS ARP	N291517.904	W0903940.653	53962.8
DH9596	DSTR DESTRAHAN H.S. CORS ARP	N295752.395	W0902256.007	48110.0
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	40358.6

NEAREST NGS PUBLISHED CONTROL POINT  
AU2833 POI 1934 N293211.496 W0900951.415 5921.7

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2008-0282</b>	Date	<b>5/28/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description		<b>CLOVELLY RESTORATION</b>	
Location	<b>LITTLE LAKE</b>		Proj. Mgr.		<b>R. JOHNSON</b>

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>148</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-01</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

Note: Check tag attached to Tripod for Actual Measured Height	Fixed Hgt 2 Meter Tripod	<b>2.000</b> Meters			
	Check Reading	<b>6.56</b> Feet/Tenths			
Actual Start Time	7:27 A.M	Actual Stop Time	12:03	Session Time (Min 2:01 Hr)	<b>4:36</b>

**BASE STATION INFORMATION**

NAD 83 or NAD 27

Example : LA South Zone or TX South Central Zone

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>384874.42</b>		
Easting/Long.	<b>3634114.32</b>		
Elevation	<b>0.82</b>		
Coordinate Origin-Where did you get your positions? <b>OFFICE</b>			

Note any problems, weather issues, etc.


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 11:10 AM  
**To:** Johnson, Ricardo  
**Subject:** OPUS solution : 13101480.DAT 000057146

FILE: 13101480.DAT 000057146

### NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 13101480m.10o TIME: 16:09:36 UTC

SOFTWARE: page5 0909.08 master23.pl 081023 START: 2010/05/28 12:28:00  
EPHEMERIS: igs15855.eph [precise] STOP: 2010/05/28 17:04:00  
NAV FILE: brdc1480.10n OBS USED: 13698 / 14087 : 97%  
ANT NAME: TRM57971.00 NONE # FIXED AMB: 56 / 57 : 98%  
ARP HEIGHT: 2.000 OVERALL RMS: 0.013(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.4044)

X: -21533.404(m) 0.014(m) -21534.113(m) 0.014(m)  
Y: -5552767.074(m) 0.021(m) -5552765.577(m) 0.021(m)  
Z: 3127413.200(m) 0.013(m) 3127412.993(m) 0.013(m)  
  
LAT: 29 33 12.99750 0.011(m) 29 33 13.01559 0.011(m)  
E LON: 269 46 40.11751 0.014(m) 269 46 40.09096 0.014(m)  
W LON: 90 13 19.88249 0.014(m) 90 13 19.90904 0.014(m)  
EL HGT: -24.698(m) 0.022(m) -26.100(m) 0.022(m)  
ORTHO HGT: 0.256(m) 0.022(m) [NAVD88 (Computed using GEOID03)]

### UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 15) SPC (1702 LA S)

Northing (Y) [meters] 3272543.260 117309.966  
Easting (X) [meters] 769158.818 1107680.263  
Convergence [degrees] 1.37094615 0.55558598  
Point Scale 1.00049400 0.99995601  
Combined Factor 1.00049788 0.99995989

US NATIONAL GRID DESIGNATOR: 15RYN6915872543(NAD 83)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DF5771	LMCN LUMCON CORS ARP	N291517.904	W0903940.653	53962.8
DH9596	DSTR DESTRAHAN H.S. CORS ARP	N295752.395	W0902256.007	48110.1
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	40358.6

NEAREST NGS PUBLISHED CONTROL POINT  
AU2833 POI 1934 N293211.496 W0900951.415 5921.7

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2008-0282</b>	Date	<b>6/1/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description	<b>CLOVELLY RESTORATION</b>		
Location	<b>LITTLE LAKE</b>		Proj. Mgr.	<b>R. JOHNSON</b>	

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>152</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-02</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

**Note: Check tag attached to Tripod for Actual Measured Height**

Fixed Hgt 2 Meter Tripod **2.000** Meters

Check Reading **6.56** Feet/Tenths

Actual Start Time	<b>10:17 A.M</b>	Actual Stop Time	<b>3:30 P.M</b>	Session Time (Min 2:01 Hr)	<b>5:13</b>
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**BASE STATION INFORMATION**

NAD 83 or NAD 27

*Example : LA South Zone or TX South Central Zone*

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>361933.76</b>	Coordinate Origin-Where did you get your positions?	
Easting/Long.	<b>3630318.6</b>	<b>OFFICE</b>	
Elevation	<b>2.32</b>		

**Note any problems, weather issues, etc.**


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 11:10 AM  
**To:** Johnson, Ricardo  
**Subject:** OPUS solution : 13101520.DAT 000057147

FILE: 13101520.DAT 000057147

### NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 1310152p.10o TIME: 16:10:02 UTC

SOFTWARE: page5 0909.08 master10.pl 081023 START: 2010/06/01 15:19:00  
EPHEMERIS: igs15862.eph [precise] STOP: 2010/06/01 20:31:00  
NAV FILE: brdc1520.10n OBS USED: 11722 / 11980 : 98%  
ANT NAME: TRM57971.00 NONE # FIXED AMB: 49 / 61 : 80%  
ARP HEIGHT: 2.000 OVERALL RMS: 0.021(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.4157)

X: -22771.473(m) 0.009(m) -22772.182(m) 0.009(m)  
Y: -5556202.719(m) 0.157(m) -5556201.221(m) 0.157(m)  
Z: 3121338.809(m) 0.044(m) 3121338.602(m) 0.044(m)  
  
LAT: 29 29 26.26505 0.045(m) 29 29 26.28310 0.045(m)  
E LON: 269 45 54.65158 0.009(m) 269 45 54.62504 0.009(m)  
W LON: 90 14 5.34842 0.009(m) 90 14 5.37496 0.009(m)  
EL HGT: -24.060(m) 0.159(m) -25.463(m) 0.159(m)  
ORTHO HGT: 0.738(m) 0.159(m) [NAVD88 (Computed using GEOID03)]

UTM COORDINATES STATE PLANE COORDINATES  
UTM (Zone 15) SPC (1702 LA S)  
Northing (Y) [meters] 3265531.490 110317.643  
Easting (X) [meters] 768100.769 1106523.312  
Convergence [degrees] 1.36206016 0.54927110  
Point Scale 1.00048700 0.99996512  
Combined Factor 1.00049078 0.99996890

US NATIONAL GRID DESIGNATOR: 15RYN6810065531(NAD 83)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	46751.4
DH9599	NOLA LOYOLA UNIVERSITY CORS ARP	N295603.732	W0900712.646	50422.7
DH7121	GRIS GRAND ISLE CORS ARP	N291555.883	W0895726.262	36721.3

### NEAREST NGS PUBLISHED CONTROL POINT

AU3008	FINIS 1934	N292838.324	W0901522.002	2540.7
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2010-0282</b>	Date	<b>6/8/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description	<b>CLOVELLY RESTORATION</b>		
Location	<b>LITTLE LAKE</b>		Proj. Mgr.	<b>R. JOHNSON</b>	

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>159</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-02</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

**Note: Check tag attached to Tripod for Actual Measured Height**

Fixed Hgt 2 Meter Tripod **2m** Meters

Check Reading **6.56** Feet/Tenths

Actual Start Time	<b>8:51 A.M</b>	Actual Stop Time	<b>3:12 P.M</b>	Session Time (Min 2:01 Hr)	<b>6:21</b>
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**BASE STATION INFORMATION**

NAD 83 or NAD 27

*Example : LA South Zone or TX South Central Zone*

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>361933.76</b>		
Easting/Long.	<b>3630318.6</b>		
Elevation	<b>2.32</b>		
Coordinate Origin-Where did you get your positions? <b>OFFICE</b>			

Note any problems, weather issues, etc.


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 11:11 AM  
**To:** Johnson, Ricardo  
**Subject:** OPUS solution : 13101590.DAT 000057148

FILE: 13101590.DAT 000057148

### NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 1310159n.10o TIME: 16:10:56 UTC

SOFTWARE: page5 0909.08 master29.pl 081023 START: 2010/06/08 13:52:00  
EPHEMERIS: igs15872.eph [precise] STOP: 2010/06/08 20:14:00  
NAV FILE: brdc1590.10n OBS USED: 14866 / 15622 : 95%  
ANT NAME: TRM57971.00 NONE # FIXED AMB: 84 / 99 : 85%  
ARP HEIGHT: 2.000 OVERALL RMS: 0.025(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.4348)

X: -22771.480(m) 0.027(m) -22772.190(m) 0.027(m)  
Y: -5556202.705(m) 0.032(m) -5556201.207(m) 0.032(m)  
Z: 3121338.789(m) 0.014(m) 3121338.582(m) 0.014(m)  
  
LAT: 29 29 26.26471 0.028(m) 29 29 26.28276 0.028(m)  
E LON: 269 45 54.65132 0.027(m) 269 45 54.62474 0.027(m)  
W LON: 90 14 5.34868 0.027(m) 90 14 5.37526 0.027(m)  
EL HGT: -24.082(m) 0.021(m) -25.485(m) 0.021(m)  
ORTHO HGT: 0.716(m) 0.021(m) [NAVD88 (Computed using GEOID03)]

#### UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 15) SPC (1702 LA S)

Northing (Y) [meters] 3265531.479 110317.633  
Easting (X) [meters] 768100.762 1106523.305  
Convergence [degrees] 1.36206012 0.54927107  
Point Scale 1.00048700 0.99996512  
Combined Factor 1.00049078 0.99996891

US NATIONAL GRID DESIGNATOR: 15RYN6810065531(NAD 83)

#### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DH9596	DSTR DESTRAHAN H.S. CORS ARP	N295752.395	W0902256.007	54434.6
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	46751.4
DH7121	GRIS GRAND ISLE CORS ARP	N291555.883	W0895726.262	36721.3

#### NEAREST NGS PUBLISHED CONTROL POINT

AU3008	FINIS 1934	N292838.324	W0901522.002	2540.6
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2010-0282</b>	Date	<b>6/9/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description	<b>CLOVELLY RESTORATION</b>		
Location	<b>LITTLE LAKE</b>		Proj. Mgr.	<b>R. JOHNSON</b>	

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>160</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-02</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

**Note: Check tag attached to Tripod for Actual Measured Height**

Fixed Hgt 2 Meter Tripod **2m** Meters

Check Reading **6.56** Feet/Tenths

Actual Start Time	<b>8:40 A.M</b>	Actual Stop Time	<b>3:34 P.M</b>	Session Time (Min 2:01 Hr)	<b>6:54</b>
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**BASE STATION INFORMATION**

NAD 83 or NAD 27

*Example : LA South Zone or TX South Central Zone*

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>361933.76</b>		
Easting/Long.	<b>3630318.6</b>		
Elevation	<b>2.32</b>		
Coordinate Origin-Where did you get your positions? <b>OFFICE</b>			

Note any problems, weather issues, etc.


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 11:12 AM  
**To:** Johnson, Ricardo  
**Subject:** OPUS solution : 13101600.DAT 000057149

FILE: 13101600.DAT 000057149

### NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 1310160n.10o TIME: 16:11:43 UTC

SOFTWARE: page5 0909.08 master.pl 0810233 START: 2010/06/09 13:41:00  
EPHEMERIS: igs15873.eph [precise] STOP: 2010/06/09 20:35:00  
NAV FILE: brdc1600.10n OBS USED: 16936 / 17246 : 98%  
ANT NAME: TRM57971.00 NONE # FIXED AMB: 80 / 93 : 86%  
ARP HEIGHT: 2.000 OVERALL RMS: 0.020(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.4376)

X: -22771.468(m) 0.010(m) -22772.178(m) 0.010(m)  
Y: -5556202.719(m) 0.081(m) -5556201.221(m) 0.081(m)  
Z: 3121338.801(m) 0.033(m) 3121338.594(m) 0.033(m)  
  
LAT: 29 29 26.26482 0.023(m) 29 29 26.28287 0.023(m)  
E LON: 269 45 54.65177 0.010(m) 269 45 54.62518 0.010(m)  
W LON: 90 14 5.34823 0.010(m) 90 14 5.37482 0.010(m)  
EL HGT: -24.064(m) 0.081(m) -25.467(m) 0.081(m)  
ORTHO HGT: 0.734(m) 0.081(m) [NAVD88 (Computed using GEOID03)]

#### UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 15) SPC (1702 LA S)

Northing (Y) [meters] 3265531.483 110317.636  
Easting (X) [meters] 768100.774 1106523.317  
Convergence [degrees] 1.36206018 0.54927113  
Point Scale 1.00048700 0.99996512  
Combined Factor 1.00049078 0.99996890

US NATIONAL GRID DESIGNATOR: 15RYN6810065531(NAD 83)

#### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	46751.4
DH9599	NOLA LOYOLA UNIVERSITY CORS ARP	N295603.732	W0900712.646	50422.7
DH7121	GRIS GRAND ISLE CORS ARP	N291555.883	W0895726.262	36721.3

#### NEAREST NGS PUBLISHED CONTROL POINT

AU3008	FINIS 1934	N292838.324	W0901522.002	2540.7
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2010-0282</b>	Date	<b>6/10/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description			<b>CLOVELLY RESTORATION</b>
Location	<b>LITTLE LAKE</b>			Proj. Mgr.	<b>R. JOHNSON</b>

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>161</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-02</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

**Note: Check tag attached to Tripod for Actual Measured Height**

Fixed Hgt 2 Meter Tripod **2m** Meters

Check Reading **6.56** Feet/Tenths

Actual Start Time	<b>8:47 A.M</b>	Actual Stop Time	<b>3:50 P.M</b>	Session Time (Min 2:01 Hr)	<b>7:03</b>
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**BASE STATION INFORMATION**

NAD 83 or NAD 27

*Example : LA South Zone or TX South Central Zone*

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>361933.76</b>		
Easting/Long.	<b>3630318.6</b>		
Elevation	<b>2.32</b>		
<b>Coordinate Origin-Where did you get your positions?</b>			
<b>OFFICE</b>			

**Note any problems, weather issues, etc.**


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 11:13 AM  
**To:** Johnson, Ricardo  
**Subject:** OPUS solution : 13101610.DAT 000057150

FILE: 13101610.DAT 000057150

### NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 1310161n.10o TIME: 16:12:37 UTC

SOFTWARE: page5 0909.08 master23.pl 081023 START: 2010/06/10 13:48:00  
EPHEMERIS: igs15874.eph [precise] STOP: 2010/06/10 20:50:00  
NAV FILE: brdc1610.10n OBS USED: 16820 / 17675 : 95%  
ANT NAME: TRM57971.00 NONE # FIXED AMB: 115 / 131 : 88%  
ARP HEIGHT: 2.000 OVERALL RMS: 0.020(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.4403)

X:	-22771.454(m)	0.016(m)	-22772.164(m)	0.016(m)
Y:	-5556202.722(m)	0.093(m)	-5556201.224(m)	0.093(m)
Z:	3121338.818(m)	0.025(m)	3121338.611(m)	0.025(m)
LAT:	29 29 26.26526	0.024(m)	29 29 26.28331	0.024(m)
E LON:	269 45 54.65229	0.015(m)	269 45 54.62570	0.015(m)
W LON:	90 14 5.34771	0.015(m)	90 14 5.37430	0.015(m)
EL HGT:	-24.053(m)	0.093(m)	-25.456(m)	0.093(m)
ORTHO HGT:	0.745(m)	0.093(m)	[NAVD88 (Computed using GEOID03)]	

#### UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 15) SPC (1702 LA S)

Northing (Y) [meters]	3265531.497	110317.650
Easting (X) [meters]	768100.788	1106523.331
Convergence [degrees]	1.36206026	0.54927120
Point Scale	1.00048700	0.99996512
Combined Factor	1.00049078	0.99996890

US NATIONAL GRID DESIGNATOR: 15RYN6810065531(NAD 83)

#### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	46751.4
DH9599	NOLA LOYOLA UNIVERSITY CORS ARP	N295603.732	W0900712.646	50422.7
DH7121	GRIS GRAND ISLE CORS ARP	N291555.883	W0895726.262	36721.3

#### NEAREST NGS PUBLISHED CONTROL POINT

AU3008	FINIS 1934	N292838.324	W0901522.002	2540.7
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2008-0282</b>	Date	<b>5/27/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description	<b>CLOVELLY RESTORATION</b>		
Location	<b>Little Lake</b>		Proj. Mgr.	<b>R. JOHNSON</b>	

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>147</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-01</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

**Note: Check tag attached to Tripod for Actual Measured Height**

Fixed Hgt 2 Meter Tripod **2.000** Meters

Check Reading **6.56** Feet/Tenths

Actual Start Time	<b>11:22 A.M</b>	Actual Stop Time	<b>4:00 P.M</b>	Session Time (Min 2:01 Hr)	<b>4:38</b>
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**BASE STATION INFORMATION**

NAD 83 or NAD 27

*Example : LA South Zone or TX South Central Zone*

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>384874.42</b>	Coordinate Origin-Where did you get your positions?	
Easting/Long.	<b>3634114.32</b>	<b>OFFICE</b>	
Elevation	<b>0.82</b>		

**Note any problems, weather issues, etc.**


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**

## **Johnson, Ricardo**

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**From:** opus [opus@NGS.NOAA.GOV]  
**Sent:** Friday, August 06, 2010 1:28 PM  
**To:** Johnson, Ricardo  
**Subject:** OPUS-RS solution : 13101620.10o 000121428

FILE: 13101620.10o 000121428

### NGS OPUS-RS SOLUTION REPORT

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USER: [rjohnson@jchance.com](mailto:rjohnson@jchance.com) DATE: August 06, 2010  
RINEX FILE: 1310162n.10o TIME: 18:28:22 UTC

SOFTWARE: rsgps 1.35 RS23.prl 1.60 START: 2010/06/11 13:26:45  
EPHEMERIS: igs15875.eph [precise] STOP: 2010/06/11 14:58:15  
NAV FILE: brdc1620.10n OBS USED: 7965 / 9783 : 81%  
ANT NAME: TRM57971.00 NONE QUALITY IND. 25.22/ 55.55  
ARP HEIGHT: 2.000 NORMALIZED RMS: 0.393

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.44272)

X: -22771.481(m) 0.008(m) -22772.191(m) 0.008(m)  
Y: -5556202.735(m) 0.017(m) -5556201.237(m) 0.017(m)  
Z: 3121338.799(m) 0.008(m) 3121338.592(m) 0.008(m)  
  
LAT: 29 29 26.26451 0.008(m) 29 29 26.28256 0.008(m)  
E LON: 269 45 54.65129 0.008(m) 269 45 54.62470 0.008(m)  
W LON: 90 14 5.34871 0.008(m) 90 14 5.37530 0.008(m)  
EL HGT: -24.051(m) 0.018(m) -25.454(m) 0.018(m)  
ORTHO HGT: 0.747(m) 0.018(m) [NAVD88 (Computed using GEOID03)]

UTM COORDINATES STATE PLANE COORDINATES  
UTM (Zone 15) SPC (1702 LA S)  
Northing (Y) [meters] 3265531.473 110317.627  
Easting (X) [meters] 768100.761 1106523.304  
Convergence [degrees] 1.36206011 0.54927106  
Point Scale 1.00048700 0.99996512  
Combined Factor 1.00049078 0.99996890

US NATIONAL GRID DESIGNATOR: 15RYN6810065531(NAD 83)

### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DH7121	GRIS GRAND ISLE CORS ARP	N291555.883	W0895726.262	36721.3
DJ9603	LWES LAKEWOOD ELMENTRY CORS ARP	N295401.295	W0902057.833	46751.4
DH9599	NOLA LOYOLA UNIVERSITY CORS ARP	N295603.732	W0900712.646	50422.8
DH9596	DSTR DESTRAHAN H.S. CORS ARP	N295752.395	W0902256.007	54434.6
DE8091	BVHS BOOTHVILLE CORS ARP	N292012.489	W0892423.010	82184.6
DL8631	AWES AWES 147 BC ALWES CORS ARP	N300600.962	W0905858.635	98986.7
DG6568	COVG COVINGTON CORS ARP	N302833.269	W0900543.923	110042.7
DF8160	SJB1 SJB GROUP COOP CORS ARP	N302345.830	W0910625.854	131018.0
DL8639	THHR T H HARRIS CAMPUS CORS ARP	N303145.638	W0920450.186	212043.3

### NEAREST NGS PUBLISHED CONTROL POINT

AU3008 FINIS 1934 N292838.324 W0901522.002 2540.6

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

**USE THIS FORM IF USING FIXED HEIGHT TRIPODS TO DOCUMENT STATIC SURVEYS ON BASE POINTS FOR ALL RTK SURVEYS**  
**GPS LOG SHEET**

Job No.	<b>2010-0282</b>	Date	<b>6/11/2010</b>	Operator	<b>J.D</b>
Client	<b>OCPR</b>	Job Description			<b>CLOVELLY RESTORATION</b>
Location	<b>LITTLE LAKE</b>			Proj. Mgr.	<b>R. JOHNSON</b>

**SESSION INFO**

File Name	4 Characters <b>1310</b>	Julian Date	3 Characters <b>162</b>	Session No.	1 Character <b>1</b>
Long Name					<b>BA02-SM-02</b>
Mon. Description	<b>DEEP ROD MON</b>				
Rec. Type	<b>TRIMBLE R7 GNSS</b>	Receiver Serial No.	<b>4749K31310</b>		
Ant. Type	<b>ZEPHYR GEODETIC MOD 2</b>	Ant. Serial No.	<b>30978434</b>		

Antenna Height Measurement is **TRUE VERTICAL** to the Bottom of Antenna Mount if Using Fixed Hgt Tripod

**Note: Check tag attached to Tripod for Actual Measured Height**

Fixed Hgt 2 Meter Tripod **2m** Meters

Check Reading **6.56** Feet/Tenths

Actual Start Time	<b>8:26 A.M</b>	Actual Stop Time	<b>9:57 A.M</b>	Session Time (Min 2:01 Hr)	<b>1:31</b>
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**BASE STATION INFORMATION**

NAD 83 or NAD 27

*Example : LA South Zone or TX South Central Zone*

DATUM	<b>NAD 83</b>	ZONE	<b>LOUISIANA SOUTH</b>
Northing/Lat	<b>361933.76</b>		
Easting/Long.	<b>3630318.6</b>		
Elevation	<b>2.32</b>		
<b>Coordinate Origin-Where did you get your positions?</b>			
<b>OFFICE</b>			

**Note any problems, weather issues, etc.**


ALL WHITE BOXES MUST BE FILLED IN WITH INFORMATION. A MINIMUM OBSERVATION OF 2 HOURS IS REQUIRED TO DETERMINE THE 3-D POSITION OF AN UNKNOWN POINT USING NGS-OPUS

**USE BACK OF THIS SHEET TO MAKE STATION SKETCH, REFERENCE TIES & DESCRIPTION**



**VICINITY MAP** Not to Scale

Reproduced from Louisiana 2005 DOQQ

## Station Name: "BA02 SM 02"

**Location:** From La Highway 308 at Cutoff, Louisiana, proceed east on east 36th Street for approximately 5 miles and follow the signs for North Dock. Once at the boat landing, by boat, proceed approximately 3 miles east to Little Lake. Turn right and proceed southeasterly in Little Lake for about 3 miles around a point, then southwesterly for about 2.5 miles to a Slip Canal at Clovelly Oil and Gas Field, then about 1.5 miles in the Slip Canal to a Canal on the right. Turn right and proceed northwesterly in the Canal for about 2000 feet to the monument on the left.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 52 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA02-SM-02

**Installation Date:** 2002 **Date of Survey:** February 2003

**Monument Established By:** JCLS

**For:** CPRA, OCPR

### Adjusted NAD83 Geodetic Position (NSRS2007)

Lat. 29°29'26.26462" N  
Long. 090°14'05.34799" W



### Adjusted NAD83 Datum LSZ (1702) Ft (NSRS2007)

N= 361,933.76  
E= 3,630,318.60



### Adjusted NAVD88 Height (2006.81)

Elevation = 2.32 feet (0.707 mtrs)

*Ellipsoid Height = -24.091 mtrs.  
Geoid03 Height = -24.798 mtrs. (2004.65)*

### **FOR REFERENCE ONLY**

#### LCZ Adjusted NAVD88 Height (Geoid99)

Elevation = 2.97 feet (0.906 mtrs)



**VICINITY MAP** Not to Scale

Reproduced from Louisiana 2005 DOQQ

**Station Name: "BA02 SM 01"**

**Location:** From La Highway 308 at Cutoff, Louisiana, proceed east on east 36th Street for approximately 5 miles and follow the signs for North Dock. Once at the boat landing, by boat, proceed approximately 2.8 miles east to a green camp and the monument.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 65 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA02-SM-01



**Installation Date:** 2002 **Date of Survey:** February 2003

**Monument Established By:** JCLS

**For:** CPRA, OCPR

**Adjusted NAD83 Geodetic Position (NSRS2007)**

Lat. 29°33'12.99718" N

Long. 090°13'19.88257" W



**Adjusted NAD83 Datum LSZ (1702) Ft (NSRS2007)**

N= 384,874.42

E= 3,634,114.32

**Adjusted NAVD88 Height (2006.81)**

Elevation = 0.82 feet (0.249 mtrs)

*Ellipsoid Height = -24.705 mtrs.*

*Geoid03 Height = -24.954 mtrs. (2004.65)*

**FOR REFERENCE ONLY**

**LCZ Adjusted NAVD88 Height (Geoid99)**

Elevation = 1.44 feet (0.440 mtrs)



**VICINITY MAP** Not to Scale

Reproduced from Louisiana 2005 DOQQ

**Station Name: "BA02 SM 01"**

**Location:** From La Highway 308 at Cutoff, Louisiana, proceed east on east 36th Street for approximately 5 miles and follow the signs for North Dock. Once at the boat landing, by boat, proceed approximately 2.8 miles east to a green camp and the monument.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 65 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA02-SM-01



**Installation Date:** 2002 **Date of Survey:** February 2003

**Monument Established By:** JCLS

**For:** CPRA, OCPR

**Adjusted NAD83 Geodetic Position (NSRS2007)**

Lat. 29°33'12.99718" N  
Long. 090°13'19.88257" W



**Adjusted NAD83 Datum LSZ (1702) Ft (NSRS2007)**

N= 384,874.42  
E= 3,634,114.32

**Adjusted NAVD88 Height (2006.81)**

Elevation = 0.82 feet (0.249 mtrs)

*Ellipsoid Height = -24.705 mtrs.*

*Geoid03 Height = -24.954 mtrs. (2004.65)*

**FOR REFERENCE ONLY**

**LCZ Adjusted NAVD88 Height (Geoid99)**

Elevation = 1.44 feet (0.440 mtrs)



**VICINITY MAP** Not to Scale

Reproduced from Louisiana 2005 DOQQ

## Station Name: "BA02 SM 02"

**Location:** From La Highway 308 at Cutoff, Louisiana, proceed east on east 36th Street for approximately 5 miles and follow the signs for North Dock. Once at the boat landing, by boat, proceed approximately 3 miles east to Little Lake. Turn right and proceed southeasterly in Little Lake for about 3 miles around a point, then southwesterly for about 2.5 miles to a Slip Canal at Clovelly Oil and Gas Field, then about 1.5 miles in the Slip Canal to a Canal on the right. Turn right and proceed northwesterly in the Canal for about 2000 feet to the monument on the left.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 52 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA02-SM-02

**Installation Date:** 2002 **Date of Survey:** February 2003

**Monument Established By:** JCLS

**For:** CPRA, OCPR

### Adjusted NAD83 Geodetic Position (NSRS2007)

Lat. 29°29'26.26462" N  
Long. 090°14'05.34799" W



### Adjusted NAD83 Datum LSZ (1702) Ft (NSRS2007)

N= 361,933.76  
E= 3,630,318.60



### Adjusted NAVD88 Height (2006.81)

Elevation = 2.32 feet (0.707 mtrs)

*Ellipsoid Height = -24.091 mtrs.*

*Geoid03 Height = -24.798 mtrs. (2004.65)*

### **FOR REFERENCE ONLY**

#### LCZ Adjusted NAVD88 Height (Geoid99)

Elevation = 2.97 feet (0.906 mtrs)

## **SECTION D**

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### **RTK Survey & Hydro Survey at Structure 14A**

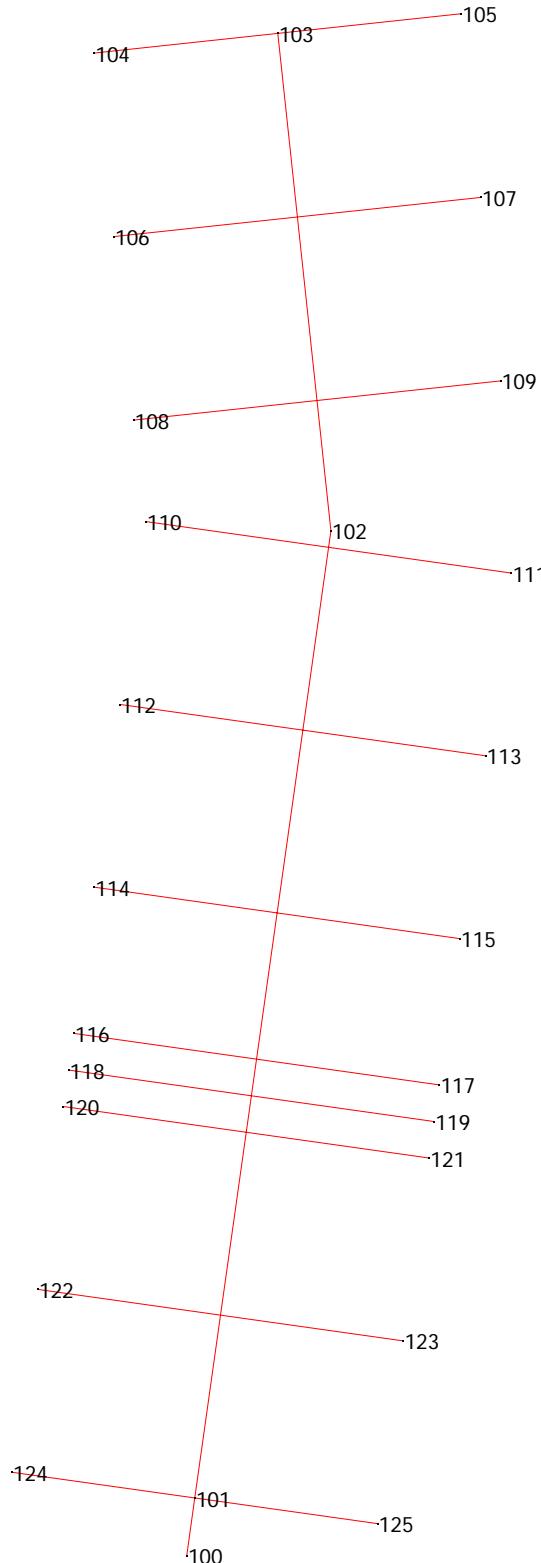
Preplot Transects & Points Listing

Post-Survey Map

RTK Topo Points Listing

Singlebeam and Multibeam Points Listing

Field surveyor:  
Joey Devillier  
Computer operator:  
Joey Devillier  
Reference:  
Clovelly to GIWW



Scale 1" to 208 ft  
0 350 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 208 ft  
Printed on 8/9/2010, at 3:00:03 PM

Printed from Trimble Geomatics Office

Site: Not selected, System: US State  
Zone: Louisiana South 1702, Datum:

Project: 100282\_Str\_14A\_rev  
USFeet Template

# Points

## ***Project : 100282\_Str\_14A\_rev***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	2:53:13 PM 8/9/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88	<b>Geoid Model</b>	GEOID03 (Revised)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

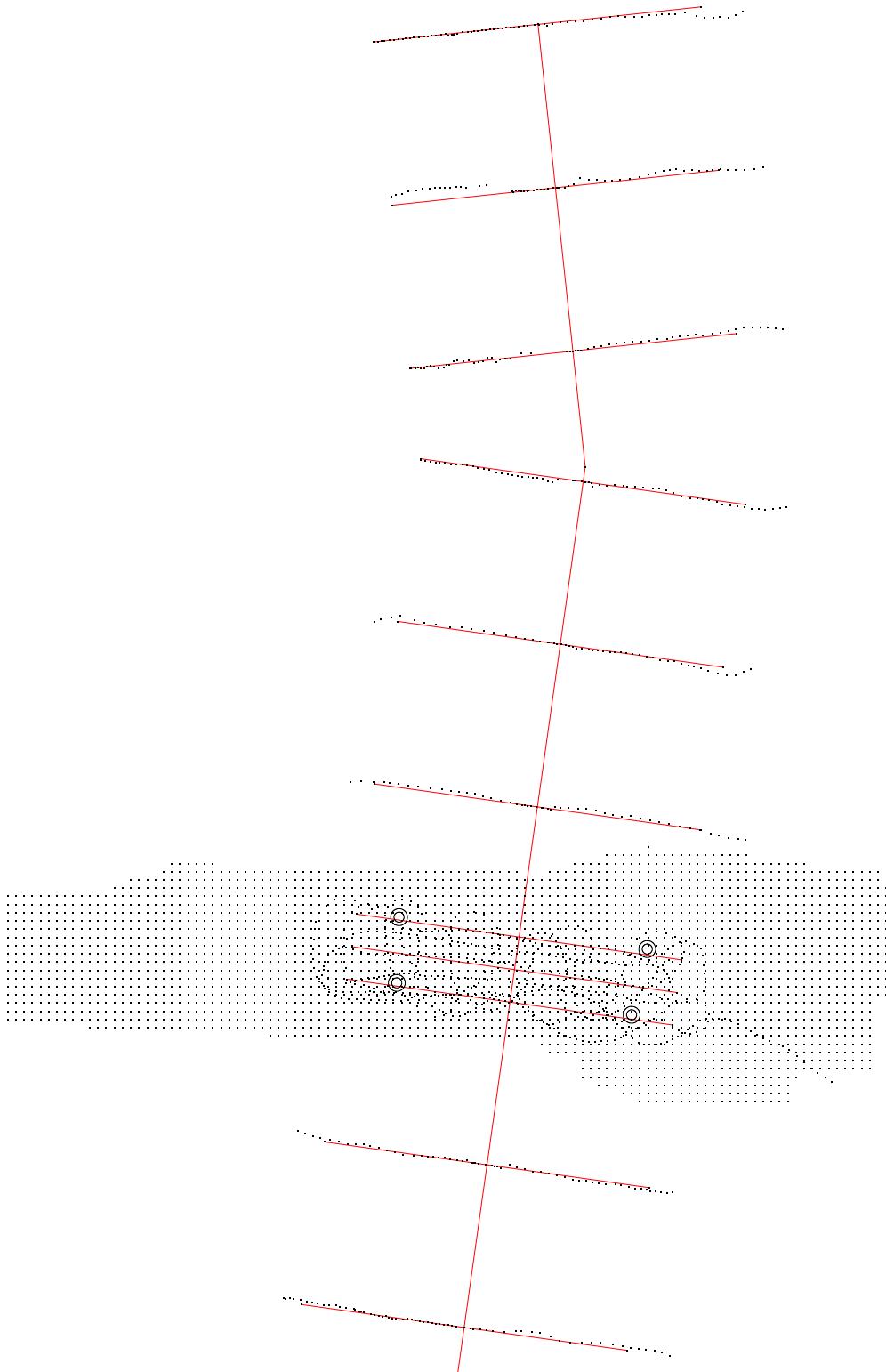
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### Point listing

Name	Northing	Easting	Elevation	Feature	Code
100	384587.650	3636432.200	0.000		POB
101	384650.030	3636440.980	0.000	STA	0+00
102	385697.700	3636588.480	0.000		PI #1
103	386236.630	3636530.820	0.000		POE
104	386215.350	3636331.960	0.000	STA	16+40
105	386257.900	3636729.690	0.000	STA	16+40
106	386016.490	3636353.230	0.000	STA	14+40
107	386059.040	3636750.960	0.000	STA	14+40
108	385817.620	3636374.510	0.000	STA	12+40
109	385860.170	3636772.240	0.000	STA	12+40
110	385707.760	3636387.920	0.000	STA	10+40
111	385652.000	3636784.020	0.000	STA	10+40
112	385509.710	3636360.040	0.000	STA	8+40
113	385453.950	3636756.130	0.000	STA	8+40
114	385311.670	3636332.160	0.000	STA	6+40
115	385255.900	3636728.250	0.000	STA	6+40
116	385153.230	3636309.850	0.000	STA	4+80
117	385097.460	3636705.950	0.000	STA	4+80
118	385113.620	3636304.280	0.000	STA	4+40
119	385057.860	3636700.370	0.000	STA	4+40
120	385074.010	3636298.700	0.000	STA	4+00
121	385018.250	3636694.790	0.000	STA	4+00
122	384875.960	3636270.820	0.000	STA	2+00
123	384820.200	3636666.910	0.000	STA	2+00
124	384677.920	3636242.940	0.000	STA	0+00
125	384622.150	3636639.030	0.000	STA	0+00

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Field surveyor:  
Joey Devillier  
Computer operator:  
Joey Devillier  
Reference:  
Clovelly to GIWW



Scale 1" to 208 ft  
0 350 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 208 ft  
Printed on 8/9/2010, at 3:02:42 PM

Printed from Trimble Geomatics Office

Site: Not selected, System: US State  
Zone: Louisiana South 1702, Datum:

Project: 100282\_Str\_14A\_rev  
USFeet Template

# Points

## ***Project : 100282\_Str\_14A\_rev***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	1:52:35 PM 8/10/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88	<b>Geoid Model</b>	GEOID03 (Revised)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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**Point listing**

Name	Northing	Easting	Elevation	Feature	Code
1000	361933.664	3630318.632	2.433	CHk	INS
1001	386227.053	3636439.419	0.383		NG
1002	386227.433	3636445.323	0.346		NG
1003	386227.826	3636449.514	0.427		NG
1004	386228.303	3636453.466	0.862		NG
1005	386228.781	3636457.455	0.576		NG
1006	386229.299	3636462.773	0.526		NG
1007	386229.733	3636467.535	0.729		NG
1008	386230.268	3636472.726	1.007		NG
1009	386230.766	3636477.349	1.194		NG
1010	386231.313	3636482.325	1.469		NG
1011	386232.062	3636487.619	1.186		NG
1012	386232.553	3636492.261	1.027		NG
1013	386233.195	3636497.473	0.950		NG
1014	386233.419	3636501.467	1.014		NG
1015	386234.049	3636506.830	1.478		NG
1016	386234.652	3636513.370	1.017		NG
1017	386234.841	3636518.233	0.911	TOE	RCK
1018	386236.045	3636526.974	1.025	CL	RCK
1019	386236.269	3636532.620	0.652		WES
1020	386236.765	3636538.272	-0.372	TOE	RCK
1021	386252.471	3636780.226	-2.996		WB
1022	386247.584	3636772.058	-2.965		WB
1023	386245.084	3636762.853	-2.927		WB
1024	386246.321	3636752.460	-2.815		WB
1025	386244.495	3636744.436	-2.680		WB
1026	386245.029	3636733.677	-2.513		WB
1027	386247.166	3636723.466	-2.400		WB
1028	386251.531	3636710.046	-2.528		WB
1029	386249.253	3636697.831	-2.287		WB
1030	386249.146	3636690.187	-2.250		WB
1031	386248.752	3636681.943	-2.318		WB
1032	386248.124	3636674.971	-2.482		WB
1033	386248.049	3636666.718	-2.514		WB
1034	386246.406	3636657.697	-2.663		WB
1035	386246.423	3636647.572	-2.419		WB
1036	386246.265	3636637.703	-2.210		WB
1037	386246.681	3636628.775	-2.212		WB
1038	386246.215	3636618.954	-2.880		WB
1039	386243.426	3636607.821	-3.277		WB
1040	386243.031	3636597.329	-3.142		WB
1041	386240.605	3636586.019	-2.436		WB
1042	386239.927	3636576.930	-2.318		WB
1043	386238.825	3636566.571	-2.002		WB
1044	386239.208	3636558.086	-1.984		WB

1045	386236.996	3636548.642	-1.691	WB
1046	386235.373	3636542.357	-1.286	WB
1047	386034.229	3636519.394	-0.426	NG
1048	386034.910	3636525.146	0.100	NG
1049	386035.620	3636529.947	0.017	NG
1050	386035.933	3636534.343	0.322	NG
1051	386036.113	3636538.619	0.875	TOE RCK
1052	386036.730	3636542.704	1.919	RCKS
1053	386037.638	3636549.771	2.506	CL RCK
1054	386037.412	3636554.067	1.652	RCKS
1055	386037.551	3636555.992	0.646	WES
1056	386038.097	3636563.438	-1.996	TOE RCK
1057	386062.264	3636805.036	-3.819	WB
1058	386060.251	3636793.906	-3.756	WB
1059	386059.912	3636782.729	-3.650	WB
1060	386059.087	3636772.338	-3.532	WB
1061	386058.892	3636771.409	-3.591	WB
1062	386059.457	3636761.848	-3.658	WB
1063	386060.117	3636752.734	-3.692	WB
1064	386059.448	3636743.477	-3.405	WB
1065	386058.500	3636736.584	-3.643	WB
1066	386058.246	3636727.110	-3.348	WB
1067	386059.220	3636718.292	-3.982	WB
1068	386057.966	3636708.251	-3.529	WB
1069	386060.885	3636698.595	-3.693	WB
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1071	386058.007	3636684.285	-3.780	WB
1072	386055.859	3636673.939	-3.653	WB
1073	386054.342	3636665.701	-3.929	WB
1074	386051.104	3636654.470	-3.708	WB
1075	386049.008	3636642.216	-3.513	WB
1076	386047.533	3636630.559	-3.423	WB
1077	386046.081	3636621.414	-3.216	WB
1078	386046.629	3636612.444	-3.186	WB
1079	386047.170	3636602.795	-3.038	WB
1080	386048.032	3636593.002	-2.765	WB
1081	386050.140	3636582.241	-2.416	WB
1082	386042.706	3636574.405	-2.218	WB
1083	386039.661	3636567.652	-2.187	WB
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1085	385838.362	3636569.648	1.513	RCKS
1086	385838.814	3636573.158	2.239	CL RCK
1087	385839.160	3636576.176	1.461	RCKS
1088	385839.629	3636579.521	0.721	WES
1089	385839.657	3636583.111	-1.064	TOE RCK
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1091	385866.423	3636820.384	-4.082	WB
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1093	385867.663	3636802.274	-4.080	WB
1094	385867.453	3636792.288	-3.953	WB
1095	385867.334	3636781.598	-3.835	WB
1096	385865.825	3636771.344	-3.898	WB
1097	385863.116	3636762.653	-3.812	WB
1098	385861.013	3636752.729	-3.838	WB
1099	385859.966	3636743.141	-3.851	WB
1100	385858.486	3636731.631	-3.863	WB
1101	385858.704	3636722.292	-3.974	WB
1102	385858.001	3636712.977	-3.960	WB
1103	385856.514	3636702.835	-4.040	WB
1104	385855.405	3636694.555	-4.186	WB
1105	385853.911	3636687.624	-4.196	WB
1106	385853.524	3636676.391	-4.111	WB
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1108	385850.137	3636656.473	-4.132	WB
1109	385850.128	3636645.742	-4.161	WB
1110	385848.879	3636636.509	-4.030	WB

1111	385848.073	3636626.445	-3.797	WB
1112	385847.367	3636617.930	-3.599	WB
1113	385844.932	3636608.440	-3.251	WB
1114	385843.695	3636599.725	-2.927	WB
1115	385841.727	3636591.591	-2.589	WB
1116	385681.596	3636573.556	-0.021	TOE RCK
1117	385681.208	3636575.929	0.902	RCKS
1118	385680.094	3636584.123	1.435	CL RCK
1119	385679.529	3636588.590	0.623	WES
1120	385679.010	3636592.735	0.242	RCKS
1121	385678.388	3636596.125	-1.754	TOE RCK
1122	385649.104	3636833.640	-4.332	WB
1123	385647.880	3636825.436	-4.342	WB
1124	385646.832	3636816.898	-4.328	WB
1125	385645.608	3636807.462	-4.243	WB
1126	385646.294	3636799.225	-4.290	WB
1127	385646.459	3636790.857	-4.167	WB
1128	385648.644	3636781.998	-4.217	WB
1129	385649.644	3636773.173	-4.008	WB
1130	385650.604	3636764.703	-4.031	WB
1131	385652.162	3636755.685	-4.034	WB
1132	385654.942	3636748.284	-4.163	WB
1133	385657.161	3636739.502	-4.139	WB
1134	385658.404	3636731.222	-3.975	WB
1135	385659.335	3636725.069	-4.095	WB
1136	385659.906	3636716.231	-3.910	WB
1137	385661.658	3636705.877	-3.845	WB
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1142	385673.142	3636659.378	-3.885	WB
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1144	385673.688	3636639.624	-3.856	WB
1145	385674.670	3636635.118	-4.076	WB
1146	385675.554	3636624.751	-3.664	WB
1147	385674.842	3636614.790	-3.310	WB
1148	385675.544	3636605.884	-3.083	WB
1149	385673.887	3636597.337	-1.790	WB
1150	385483.004	3636550.507	0.355	WES
1151	385482.526	3636553.189	1.244	RCKS
1152	385481.567	3636559.021	1.989	CL RCK
1153	385481.060	3636564.667	0.529	WES
1154	385479.966	3636568.808	-0.145	RCKS
1155	385478.337	3636573.605	-2.098	TOE RCK
1156	385451.318	3636789.482	-4.553	WB
1157	385448.123	3636781.336	-4.578	WB
1158	385444.285	3636771.153	-4.610	WB
1159	385444.194	3636761.082	-4.563	WB
1160	385446.729	3636749.891	-4.137	WB
1161	385449.665	3636737.510	-4.607	WB
1162	385453.309	3636729.349	-4.518	WB
1163	385455.126	3636720.186	-4.505	WB
1164	385456.249	3636713.862	-4.439	WB
1165	385458.335	3636704.950	-4.706	WB
1166	385460.974	3636696.379	-4.563	WB
1167	385460.971	3636689.138	-4.634	WB
1168	385462.527	3636679.494	-4.273	WB
1169	385465.576	3636670.660	-4.184	WB
1170	385467.046	3636662.829	-5.007	WB
1171	385468.841	3636654.136	-4.887	WB
1172	385470.395	3636646.395	-4.830	WB
1173	385471.675	3636638.733	-4.855	WB
1174	385472.143	3636631.391	-4.756	WB
1175	385472.345	3636624.178	-4.713	WB
1176	385472.345	3636618.535	-4.764	WB

1177	385473.481	3636610.068	-4.446	WB
1178	385474.411	3636604.102	-4.350	WB
1179	385474.993	3636597.276	-4.232	WB
1180	385475.386	3636592.889	-4.183	WB
1181	385476.351	3636584.579	-3.473	WB
1182	385476.913	3636577.956	-3.000	WB
1183	361933.773	3630318.585	2.353	Ck On
1184	385484.100	3636543.881	-0.058	WES
1185	385484.516	3636543.232	-0.426	TOE RCK
1186	385508.814	3636331.285	-2.383	WB
1187	385512.206	3636339.346	-2.269	WB
1188	385514.915	3636351.895	-2.161	WB
1189	385517.152	3636363.567	-2.040	WB
1190	385510.808	3636379.957	-2.254	WB
1191	385508.105	3636392.584	-2.331	WB
1192	385505.978	3636406.292	-2.377	WB
1193	385502.538	3636423.441	-2.611	WB
1194	385503.027	3636437.952	-2.599	WB
1195	385500.920	3636450.299	-2.607	WB
1196	385498.178	3636465.079	-2.410	WB
1197	385496.058	3636477.176	-2.544	WB
1198	385492.916	3636492.198	-2.393	WB
1199	385490.464	3636503.931	-2.294	WB
1200	385488.771	3636514.856	-2.191	WB
1201	385487.536	3636524.225	-1.995	WB
1202	385485.748	3636533.387	-1.486	WB
1203	385282.746	3636538.079	-0.013	WES
1204	385282.914	3636535.285	0.798	RCKS
1205	385283.834	3636528.913	2.752	CL RCK
1206	385284.955	3636521.945	0.990	RCKS
1207	385285.326	3636517.872	-0.128	WES
1208	385285.681	3636514.658	-0.745	RCKS
1209	385286.049	3636511.549	-1.758	TOE RCK
1210	385313.610	3636303.007	-2.882	WB
1211	385315.577	3636315.114	-3.148	WB
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1213	385313.934	3636344.019	-3.162	WB
1214	385312.554	3636350.265	-3.090	WB
1215	385311.590	3636360.989	-3.054	WB
1216	385309.573	3636373.227	-3.082	WB
1217	385308.214	3636384.924	-3.110	WB
1218	385306.955	3636400.404	-3.000	WB
1219	385305.321	3636413.968	-2.980	WB
1220	385303.750	3636424.391	-2.909	WB
1221	385302.765	3636434.530	-2.772	WB
1222	385301.352	3636444.174	-2.836	WB
1223	385299.658	3636453.630	-2.357	WB
1224	385296.716	3636464.209	-1.953	WB
1225	385294.448	3636473.183	-1.919	WB
1226	385291.480	3636485.327	-1.874	WB
1227	385288.969	3636497.553	-2.435	WB
1228	385286.957	3636505.348	-1.798	WB
1229	385243.906	3636783.747	-4.997	WB
1230	385244.767	3636774.254	-5.044	WB
1231	385245.950	3636762.505	-5.013	WB
1232	385248.748	3636751.080	-4.939	WB
1233	385251.278	3636741.249	-4.964	WB
1234	385255.733	3636729.784	-4.907	WB
1235	385258.209	3636716.470	-4.523	WB
1236	385259.868	3636703.779	-4.796	WB
1237	385262.876	3636690.716	-4.901	WB
1238	385265.217	3636678.293	-5.030	WB
1239	385267.953	3636667.356	-4.871	WB
1240	385270.055	3636655.483	-5.002	WB
1241	385272.622	3636643.573	-4.957	WB
1242	385272.417	3636632.928	-5.042	WB

1243	385274.466	3636621.869	-4.845	WB
1244	385276.751	3636612.033	-4.894	WB
1245	385279.419	3636601.601	-4.809	WB
1246	385282.057	3636589.818	-4.577	WB
1247	385282.001	3636580.226	-4.206	WB
1248	385282.514	3636568.106	-3.743	WB
1249	385283.187	3636558.058	-3.250	WB
1250	385284.320	3636551.691	-3.009	WB
1251	385281.891	3636542.888	-0.022	RCKS
1252	385281.127	3636546.614	-2.408	TOE RCK
1253	384846.710	3636477.946	-0.049	WES
1254	384847.288	3636474.389	1.066	RCKS
1255	384848.353	3636466.768	2.489	CL RCK
1256	384849.512	3636458.471	0.833	RCKS
1257	384850.181	3636454.458	0.050	WES
1258	384846.324	3636481.472	-1.091	RCKS
1259	384844.139	3636485.714	-1.348	TOE RCK
1260	384814.559	3636694.729	-4.819	WB
1261	384813.328	3636687.701	-4.875	WB
1262	384814.607	3636680.357	-4.821	WB
1263	384815.823	3636673.936	-4.851	WB
1264	384816.326	3636667.958	-4.771	WB
1265	384818.007	3636663.168	-4.853	WB
1266	384818.573	3636657.010	-4.820	WB
1267	384819.470	3636649.241	-4.848	WB
1268	384821.122	3636641.168	-4.942	WB
1269	384822.954	3636632.227	-5.041	WB
1270	384823.890	3636625.086	-4.542	WB
1271	384824.826	3636613.789	-4.930	WB
1272	384825.363	3636604.809	-4.883	WB
1273	384826.374	3636597.349	-5.178	WB
1274	384828.543	3636589.298	-5.272	WB
1275	384829.398	3636580.871	-5.258	WB
1276	384829.825	3636573.337	-5.305	WB
1277	384832.897	3636563.109	-5.320	WB
1278	384835.329	3636554.203	-5.126	WB
1279	384837.993	3636543.746	-5.113	WB
1280	384839.704	3636534.657	-4.909	WB
1281	384840.172	3636524.957	-4.544	WB
1282	384842.508	3636515.024	-4.498	WB
1283	384845.542	3636505.274	-3.884	WB
1284	384847.862	3636495.917	-3.138	WB
1285	384850.357	3636453.038	-0.515	RCKS
1286	384850.449	3636450.818	-1.113	TOE RCK
1287	384889.110	3636238.737	-2.101	WB
1288	384886.341	3636246.914	-2.070	WB
1289	384882.539	3636256.665	-1.987	WB
1290	384880.728	3636265.425	-2.023	WB
1291	384878.553	3636277.391	-1.983	WB
1292	384876.162	3636288.769	-2.023	WB
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1296	384871.441	3636326.763	-2.185	WB
1297	384868.812	3636337.541	-1.982	WB
1298	384865.711	3636347.368	-1.873	WB
1299	384863.324	3636356.762	-1.965	WB
1300	384860.795	3636366.590	-2.066	WB
1301	384859.222	3636378.840	-1.870	WB
1302	384858.759	3636389.143	-1.806	WB
1303	384858.268	3636396.354	-1.824	WB
1304	384857.610	3636403.518	-1.725	WB
1305	384857.083	3636409.989	-1.847	WB
1306	384856.792	3636417.417	-1.653	WB
1307	384855.085	3636423.286	-1.684	WB
1308	384853.478	3636432.033	-1.417	WB

1309	384852.764	3636438.462	-1.348	WB
1310	384853.200	3636444.361	-1.288	WB
1311	384648.974	3636448.525	-0.018	WES
1312	384648.356	3636451.568	-2.014	TOE RCK
1313	384650.068	3636440.065	1.029	EDge Of ROcks
1314	384651.411	3636431.253	1.962	NG
1315	384652.142	3636425.733	1.205	NG
1316	384652.887	3636421.280	1.088	NG
1317	384653.438	3636416.670	0.654	NG
1318	384654.291	3636410.804	0.801	NG
1319	384654.849	3636406.457	0.876	NG
1320	384655.425	3636401.669	1.102	NG
1321	384656.112	3636396.528	1.085	NG
1322	384657.060	3636391.660	0.813	NG
1323	384657.740	3636386.498	0.879	NG
1324	384658.398	3636381.770	0.896	NG
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1328	384622.583	3636662.367	-4.885	WB
1329	384623.939	3636653.267	-4.776	WB
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1333	384631.670	3636607.355	-4.454	WB
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1338	384639.140	3636545.965	-5.046	WB
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1356	386221.786	3636392.076	0.621	NG
1357	386221.023	3636385.391	0.609	NG
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1359	386219.866	3636374.881	0.432	NG
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1361	386218.943	3636365.937	0.859	NG
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1363	386218.090	3636355.057	0.769	NG
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1365	386216.601	3636343.935	0.567	NG
1366	386216.235	3636340.364	0.444	NG
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1372	386034.996	3636507.421	-0.714	NG
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1379	386038.518	3636436.801	0.462	NG
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1382	386038.227	3636417.351	0.595	NG
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1389	386030.698	3636364.763	0.483	NG
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1396	385829.060	3636484.375	0.909	NG
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1409	385819.371	3636416.243	0.196	NG
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1414	385817.960	3636392.197	-1.130	NG
1415	385818.081	3636388.050	-1.221	NG
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1419	385681.883	3636554.947	-1.916	WB
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1421	385680.801	3636542.978	-1.843	NG
1422	385683.663	3636536.643	-1.926	WB
1423	385684.234	3636530.023	-1.546	WB
1424	385684.701	3636524.327	-1.349	WB
1425	385685.395	3636518.862	-1.354	WB
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1432	385693.936	3636471.435	0.822	NG
1433	385695.035	3636464.980	0.405	NG
1434	385696.575	3636457.451	0.710	NG
1435	385698.734	3636452.039	0.562	NG
1436	385700.240	3636443.829	0.462	NG
1437	385701.124	3636438.846	0.642	NG
1438	385700.555	3636431.171	0.750	NG
1439	385701.082	3636425.376	0.605	NG
1440	385702.949	3636417.781	0.439	NG

1441	385702.954	3636410.867	0.486	NG
1442	385703.066	3636405.871	0.778	NG
1443	385704.184	3636399.889	1.230	NG
1444	385704.970	3636393.066	0.845	NG
1445	385706.785	3636387.518	0.801	NG
1446	384659.756	3636377.038	0.585	NG
1447	384660.511	3636371.431	0.565	NG
1448	384660.403	3636365.902	0.364	NG
1449	384661.222	3636357.418	0.949	NG
1450	384661.161	3636353.692	0.315	NG
1451	384661.769	3636348.856	1.225	NG
1452	384663.563	3636345.234	1.020	NG
1453	384662.923	3636341.226	0.351	NG
1454	384664.200	3636336.532	0.694	NG
1455	384665.267	3636332.043	0.298	NG
1456	384666.517	3636327.256	1.057	NG
1457	384668.351	3636318.651	0.639	NG
1458	384669.437	3636315.724	0.290	TOP
1459	384669.847	3636313.320	-0.561	Bottom
1460	384672.009	3636307.887	-0.708	WB
1461	384672.902	3636306.688	0.835	WB
1462	384674.354	3636297.357	-0.118	WB
1463	384675.477	3636290.054	0.383	WB
1464	384676.609	3636284.588	1.244	WB
1465	384677.016	3636275.841	1.159	WB
1466	384677.036	3636270.416	0.105	WB
1467	384678.989	3636262.211	-0.693	WB
1468	384680.378	3636255.905	-0.681	WB
1469	384681.408	3636249.124	-0.243	WB
1470	384683.566	3636241.174	-1.114	WB
1471	384684.487	3636233.260	-0.974	WB
1472	384685.362	3636228.791	0.629	WB
1473	384684.868	3636223.364	0.271	Bottom
1474	384685.393	3636221.241	0.318	TOP
1475	385149.580	3636361.670	0.000	CHNL MKR (Starfix)
1476	385069.620	3636358.940	0.000	CHNL MKR (Starfix)
1477	385110.710	3636663.970	0.000	CHNL MKR (Starfix)
1478	385030.710	3636644.910	0.000	CHNL MKR (Starfix)

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## **SECTION E**

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### **RTK Survey & Hydro Survey at Structures 2, 4, 4A-4B**

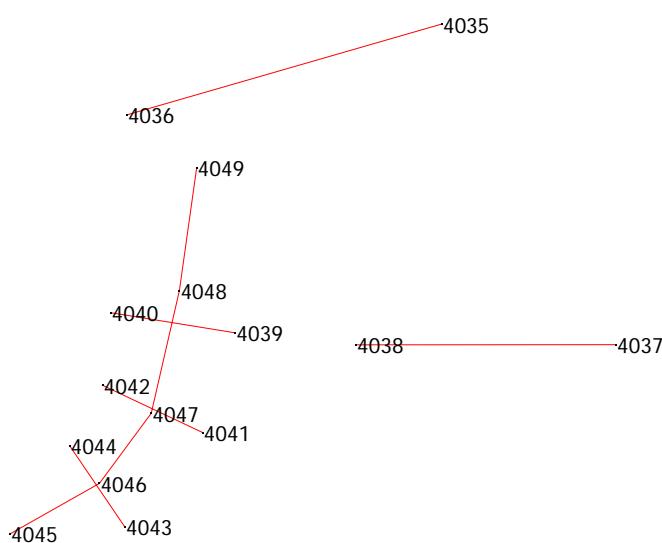
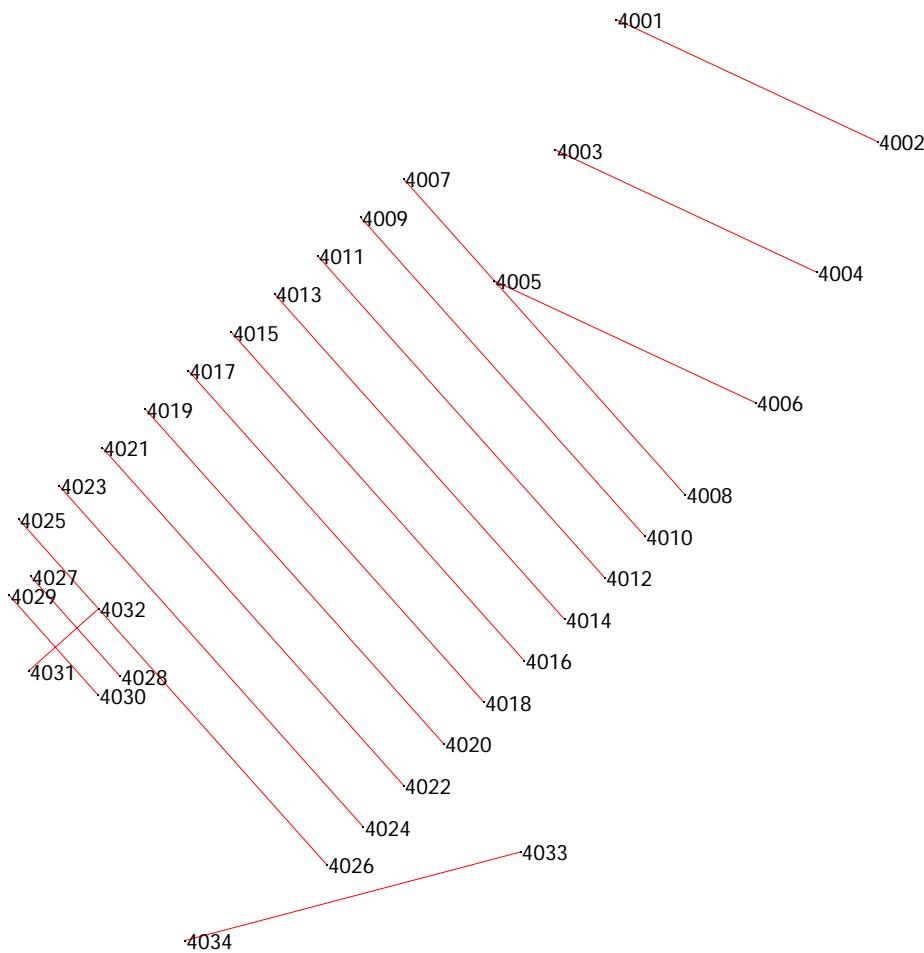
Preplot Transects & Points Listing

Post-Survey Map

RTK Topo Points Listing

Singlebeam Points Listing

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 333 ft  
0 625 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 333 ft  
Printed on 8/9/2010, at 2:43:24 PM

Printed from Trimble Geomatics Office

Site: Not selected, System: US State  
Zone: Louisiana South 1702, Datum:

Project: Structure 2&4  
USFeet Template

# Points

## ***Project : 100282\_Str\_2&4***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	2:40:20 PM 8/9/2010
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<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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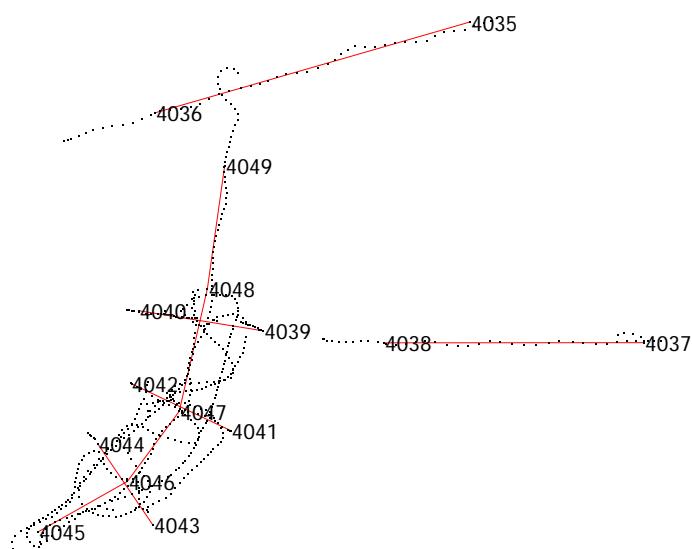
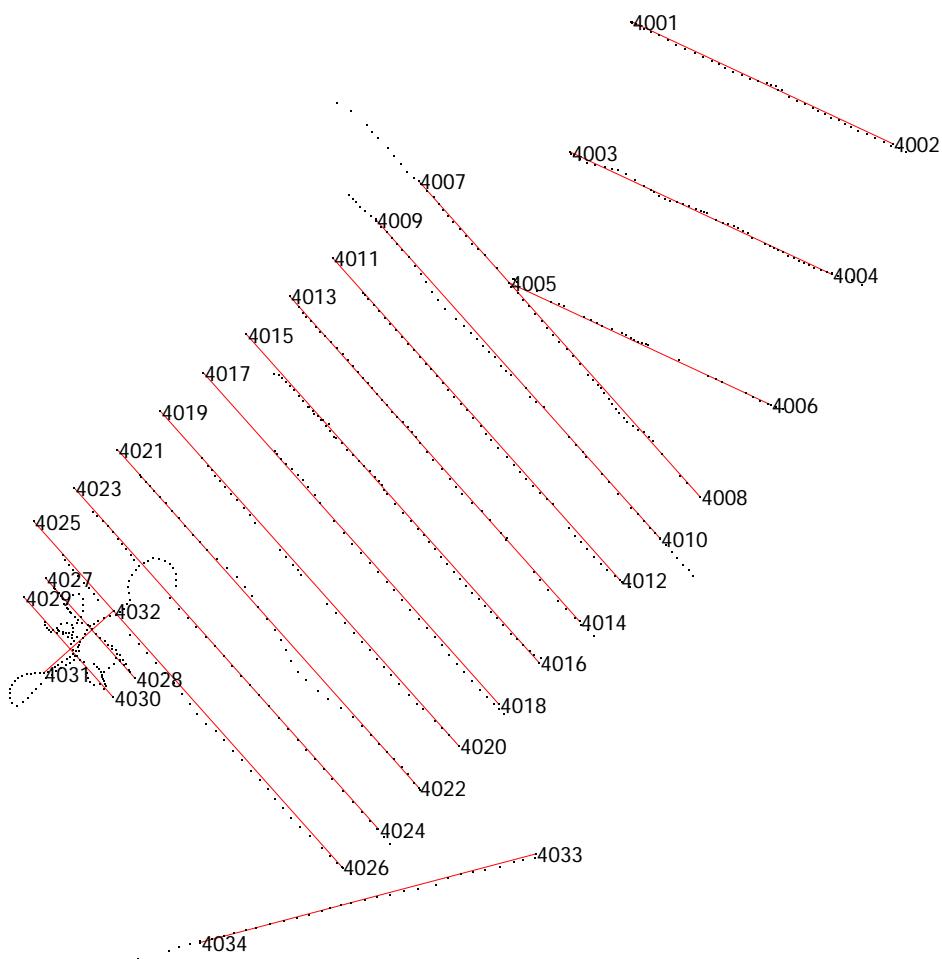
**Point listing**

Name	Northing	Easting	Elevation	Feature Code
4001	371856.160	3631709.650	0.000	Transect
4002	371644.550	3632162.660	0.000	Transect
4003	371629.650	3631603.840	0.000	Transect
4004	371418.040	3632056.860	0.000	Transect
4005	371403.140	3631498.040	0.000	Transect
4006	371191.530	3631951.060	0.000	Transect
4007	371579.820	3631340.480	0.000	Transect
4008	371031.860	3631829.130	0.000	Transect
4009	371513.270	3631265.850	0.000	Transect
4010	370959.850	3631759.360	0.000	Transect
4011	371446.710	3631191.210	0.000	Transect
4012	370887.840	3631689.590	0.000	Transect
4013	371380.160	3631116.580	0.000	Transect
4014	370815.840	3631619.820	0.000	Transect
4015	371313.600	3631041.940	0.000	Transect
4016	370743.830	3631550.040	0.000	Transect
4017	371247.040	3630967.310	0.000	Transect
4018	370671.820	3631480.270	0.000	Transect
4019	371180.490	3630892.680	0.000	Transect
4020	370599.810	3631410.500	0.000	Transect
4021	371113.930	3630818.040	0.000	Transect
4022	370527.800	3631340.730	0.000	Transect
4023	371047.380	3630743.410	0.000	Transect
4024	370455.790	3631270.950	0.000	Transect
4025	370989.490	3630672.820	0.000	Transect
4026	370390.120	3631207.320	0.000	Transect
4027	370890.870	3630693.780	0.000	Transect
4028	370717.250	3630848.600	0.000	Transect
4029	370857.590	3630656.460	0.000	Transect
4030	370683.980	3630811.280	0.000	Transect
4031	370726.100	3630690.120	0.000	Transect
4032	370834.210	3630811.300	0.000	Transect
4033	370412.460	3631543.490	0.000	Transect
4034	370259.020	3630961.920	0.000	Transect
4035	369921.560	3631642.830	0.000	Transect
4036	369763.850	3631096.310	0.000	Transect
4037	369365.500	3631944.700	0.000	Transect
4038	369365.110	3631493.710	0.000	Transect
4039	369385.950	3631284.700	0.000	Transect
4040	369420.970	3631068.390	0.000	Transect
4041	369213.000	3631227.840	0.000	Transect
4042	369294.910	3631054.440	0.000	Transect
4043	369049.310	3631093.050	0.000	Transect
4044	369190.570	3630997.130	0.000	Transect
4045	369037.020	3630893.980	0.000	Transect

4046	369124.700	3631048.920	0.000	Transect
4047	369246.360	3631138.940	0.000	Transect
4048	369459.200	3631187.830	0.000	Transect
4049	369672.320	3631217.800	0.000	Transect

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Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 333 ft  
0 625 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 333 ft  
Printed on 8/9/2010, at 3:11:53 PM

Printed from Trimble Geomatics Office

Site: Not selected, System: US State  
Zone: Louisiana South 1702, Datum:

Project: Structure 2&4  
USFeet Template

# Points

## ***Project : 100282\_Str\_2&4***

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<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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### Point listing

Name	Northing	Easting	Elevation	Feature	Code
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2317	369203.915	3630985.985	-0.880		WB
2318	369200.331	3630990.904	-6.462		WB
2319	369198.768	3630993.530	-6.855		WB
2320	369071.154	3631085.062	-2.031		WE
2321	369074.773	3631083.647	-8.390		WB
2322	369278.366	3631117.522	-4.267		WB
2323	369272.215	3631122.319	-5.147		WB
2324	369267.265	3631128.304	-5.813		WB
2325	369259.829	3631135.561	-5.400		WB
2326	369246.374	3631144.142	-6.614		WB
2327	369245.612	3631153.222	-6.830		WB
2328	369242.144	3631171.967	-6.281		WB
2329	369238.246	3631183.183	-6.372		WB
2330	369234.137	3631192.026	-6.256		WB
2331	369229.507	3631200.513	-2.372		WB
2332	369226.115	3631205.243	-2.333		WB
2333	369219.352	3631213.220	-1.778		WB
2334	369213.616	3631223.194	-1.078		WB
2335	369212.579	3631226.942	0.074		WE
2336	369211.938	3631226.870	0.930		WS
2337	369253.834	3631131.428	-5.883		WB
2338	369258.322	3631120.932	-6.651		WB
2339	369260.604	3631113.154	-5.493		WB
2340	369266.039	3631102.028	-4.528		WB
2341	369272.395	3631092.385	-3.694		WB
2342	369279.568	3631080.645	-1.885		WB
2343	369285.462	3631072.732	-1.594		WB
2344	369289.420	3631064.948	-1.764		WB
2345	369294.422	3631056.689	-1.279		WE
2346	369388.220	3631279.938	-0.509		WE
2347	369387.800	3631277.778	0.905		WS
2348	369391.314	3631275.228	-0.996		WB
2349	369393.319	3631270.308	-1.141		WB
2350	369393.446	3631269.915	-1.095		WB
2351	369394.734	3631266.547	-1.175		WB
2352	369395.468	3631262.028	-1.470		WB
2353	369396.227	3631257.297	-1.835		WB
2354	369398.758	3631254.613	-2.718		WB
2355	369399.988	3631249.781	-4.348		WB
2356	369400.631	3631245.503	-5.153		WB
2357	369402.737	3631203.443	-6.881		WE
2358	369405.573	3631198.253	-6.437		WB

2359	369408.236	3631169.920	-4.176	WB
2360	369407.634	3631161.419	-3.368	WB
2361	369407.688	3631153.053	-3.029	WB
2362	369409.100	3631144.160	-2.869	WB
2363	369410.917	3631133.732	-2.788	WB
2364	369413.258	3631123.834	-2.758	WB
2365	369414.875	3631112.684	-2.358	WB
2366	369414.666	3631101.194	-1.938	WB
2367	369415.007	3631089.937	-1.842	WB
2368	369415.911	3631080.930	-1.795	WB
2369	369417.985	3631069.324	-1.748	WB
2370	369420.898	3631060.351	-1.524	WB
2371	369420.917	3631056.047	-1.456	WB
2372	369421.533	3631051.876	-1.279	WB
2373	369422.085	3631048.861	-1.230	WB
2374	369422.176	3631048.416	-1.224	WB
2375	369422.388	3631047.774	-0.359	WE
2376	369421.677	3631047.519	1.072	WS
2377	369367.726	3631951.654	-3.429	WB
2378	369374.592	3631939.001	-3.392	WB
2379	369381.063	3631925.280	-3.341	WB
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2381	369378.470	3631900.369	-3.224	WB
2382	369368.182	3631974.894	-3.535	WB
2383	369369.238	3631962.024	-3.507	WB
2384	369369.137	3631945.467	-3.392	WB
2385	369368.756	3631930.581	-3.520	WB
2386	369368.806	3631914.658	-3.407	WB
2387	369366.376	3631898.800	-3.342	WB
2388	369362.847	3631881.301	-3.496	WB
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2393	369365.683	3631780.036	-3.198	WB
2394	369362.256	3631757.923	-3.126	WB
2395	369361.143	3631736.604	-3.197	WB
2396	369363.386	3631716.665	-3.249	WB
2397	369366.731	3631695.922	-3.271	WB
2398	369367.766	3631678.119	-3.601	WB
2399	369363.499	3631659.206	-3.351	WB
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2401	369359.265	3631621.860	-3.597	WB
2402	369362.273	3631602.432	-3.358	WB
2403	369366.826	3631583.196	-3.217	WB
2404	369368.090	3631565.447	-3.399	WB
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2406	369363.483	3631531.881	-3.655	WB
2407	369361.730	3631515.009	-3.392	WB
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2416	369369.361	3631394.565	-2.302	WB
2417	369371.397	3631389.866	-0.900	WB
2418	369372.070	3631388.551	0.896	WES
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2421	369919.983	3631666.575	-4.133	WB
2422	369914.763	3631649.290	-4.119	WB
2423	369908.502	3631634.024	-4.140	WB
2424	369906.452	3631614.782	-4.174	WB

2425	369904.786	3631597.822	-4.172	WB
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2431	369882.555	3631495.384	-4.262	WB
2432	369878.720	3631478.717	-4.280	WB
2433	369877.904	3631460.545	-4.297	WB
2434	369879.381	3631444.152	-4.324	WB
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2436	369866.291	3631419.332	-4.326	WB
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2451	369779.323	3631175.102	-3.514	WB
2452	369774.366	3631159.093	-3.432	WB
2453	369771.066	3631141.693	-3.549	WB
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2457	369753.529	3631074.735	-3.162	WB
2458	369747.211	3631057.746	-3.790	WB
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2473	370382.042	3631435.072	-3.820	WB
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2527	370708.596	3630915.804	-3.540	WB
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2713	371094.322	3631236.552	-3.180	WB
2714	371104.167	3631226.108	-2.864	WB
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2728	371187.489	3631149.202	-2.864	WB
2729	371197.862	3631139.846	-1.975	WB
2730	371206.908	3631132.511	-2.535	WB
2731	371216.596	3631124.600	-2.182	WB
2732	371224.445	3631117.014	-2.016	WB
2733	371231.360	3631109.875	-1.850	WB
2734	371238.098	3631103.294	-0.116	WB
2735	371243.589	3631098.444	1.250	WB
2736	371245.782	3631090.551	0.994	WES
2737	370790.492	3631644.536	-3.833	WB
2738	370800.296	3631634.380	-3.313	WB
2739	370810.317	3631622.365	-3.627	WB
2740	370821.292	3631611.084	-4.475	WB
2741	370837.722	3631595.921	-4.461	WB
2742	370851.769	3631582.507	-3.814	WB
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2747	370957.312	3631491.605	-3.692	WB
2748	370969.084	3631483.436	-3.610	WB
2749	370992.718	3631464.831	-3.675	WB
2750	371007.013	3631449.725	-3.648	WB
2751	371021.958	3631432.642	-3.551	WB
2752	371036.763	3631416.609	-4.267	WB
2753	371049.278	3631406.172	-3.424	WB
2754	371063.284	3631394.323	-3.230	WB

2755	371079.712	3631380.431	-3.272	WB
2756	371095.962	3631366.236	-3.443	WB
2757	371109.122	3631355.719	-3.714	WB
2758	371124.852	3631343.467	-3.229	WB
2759	371134.862	3631336.008	-3.205	WB
2760	371143.799	3631328.765	-2.976	WB
2761	371152.478	3631321.807	-3.092	WB
2762	371162.152	3631313.510	-3.667	WB
2763	371171.181	3631303.522	-3.493	WB
2764	371179.931	3631294.786	-3.194	WB
2765	371190.589	3631285.755	-3.702	WB
2766	371200.783	3631276.555	-3.980	WB
2767	371210.804	3631267.793	-3.709	WB
2768	371220.282	3631259.329	-3.709	WB
2769	371229.208	3631251.986	-3.504	WB
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2774	371279.998	3631208.778	-3.414	WB
2775	371289.356	3631199.165	-3.218	WB
2776	371300.210	3631189.333	-3.063	WB
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2778	371318.250	3631170.351	-2.480	WB
2779	371327.294	3631163.034	-2.301	WB
2780	371336.056	3631154.430	-2.031	WB
2781	371344.051	3631145.939	-1.636	WB
2782	371350.893	3631139.743	-1.351	WB
2783	371361.526	3631134.018	0.807	WES
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2786	370894.282	3631680.836	-3.763	WB
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2790	370940.904	3631632.456	-3.261	WB
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2792	370964.887	3631611.626	-4.020	WB
2793	370978.246	3631600.993	-3.577	WB
2794	371018.893	3631573.567	-3.753	WB
2795	371027.878	3631563.343	-3.552	WB
2796	371038.093	3631551.137	-3.457	WB
2797	371050.735	3631538.115	-3.255	WB
2798	371063.329	3631526.717	-3.540	WB
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2803	371129.794	3631466.602	-3.350	WB
2804	371141.122	3631457.253	-3.283	WB
2805	371154.245	3631447.909	-3.319	WB
2806	371168.783	3631435.592	-3.385	WB
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2808	371192.773	3631413.523	-3.287	WB
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2812	371241.555	3631371.897	-3.184	WB
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2816	371285.905	3631333.156	-3.840	WB
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2823	371364.996	3631262.246	-3.179	WB
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2830	370925.528	3631789.227	-3.821	WB
2831	370936.479	3631779.321	-3.770	WB
2832	370948.370	3631769.242	-3.751	WB
2833	370958.504	3631759.633	-3.599	WB
2834	370969.456	3631750.458	-3.873	WB
2835	370977.897	3631742.261	-3.899	WB
2836	370990.467	3631731.524	-3.680	WB
2837	371001.899	3631720.431	-3.862	WB
2838	371013.145	3631709.186	-3.631	WB
2839	371037.566	3631685.531	-3.556	WB
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2842	371101.329	3631631.780	-3.458	WB
2843	371110.374	3631625.204	-3.448	WB
2844	371121.794	3631613.589	-3.390	WB
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2856	371305.529	3631441.868	-3.467	WB
2857	371316.380	3631431.307	-3.512	WB
2858	371328.772	3631419.030	-3.613	WB
2859	371341.202	3631406.103	-3.657	WB
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2862	371386.887	3631364.369	-3.697	WB
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2864	371418.248	3631345.285	-3.550	WB
2865	371432.686	3631334.279	-3.440	WB
2866	371447.301	3631323.799	-3.155	WB
2867	371460.624	3631312.587	-3.407	WB
2868	371470.624	3631303.800	-3.295	WB
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2871	371500.269	3631276.011	-3.180	WB
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2874	371527.260	3631247.916	-1.996	WB
2875	371534.603	3631238.852	-1.931	WB
2876	371542.501	3631232.210	-1.106	WB
2877	371548.392	3631225.988	-2.024	WB
2878	371555.550	3631219.959	0.972	WES
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2881	371105.450	3631763.341	-4.049	WB
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2883	371135.380	3631740.558	-3.710	WB
2884	371143.709	3631731.600	-3.671	WB
2885	371148.235	3631721.561	-3.591	WB
2886	371154.593	3631712.295	-3.611	WB

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2888	371168.282	3631695.982	-3.624	WB
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2890	371184.505	3631682.770	-3.522	WB
2891	371193.132	3631676.806	-3.559	WB
2892	371201.557	3631670.284	-3.419	WB
2893	371211.283	3631662.813	-3.674	WB
2894	371220.106	3631657.112	-3.599	WB
2895	371226.587	3631652.209	-3.561	WB
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2899	371276.760	3631607.509	-3.884	WB
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2902	371312.438	3631574.206	-3.752	WB
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2904	371337.323	3631553.708	-3.383	WB
2905	371349.501	3631542.351	-3.426	WB
2906	371362.193	3631532.287	-3.457	WB
2907	371374.167	3631521.917	-3.342	WB
2908	371384.813	3631513.119	-3.556	WB
2909	371396.094	3631501.544	-3.299	WB
2910	371402.863	3631496.693	-3.060	TOE RCK
2911	371429.160	3631477.136	-3.269	WB
2912	371451.604	3631455.817	-2.660	WB
2913	371462.361	3631444.017	-2.441	WB
2914	371470.209	3631433.797	-2.835	WB
2915	371483.390	3631423.442	-2.705	WB
2916	371496.368	3631412.370	-2.042	WB
2917	371508.058	3631400.703	-2.109	WB
2918	371519.252	3631391.427	-1.844	WB
2919	371529.709	3631382.685	-2.263	WB
2920	371539.295	3631375.687	-2.214	WB
2921	371551.208	3631366.588	-2.290	WB
2922	371563.179	3631355.754	-2.471	WB
2923	371574.740	3631344.425	-2.718	WB
2924	371584.697	3631331.764	-2.892	WB
2925	371596.187	3631321.050	-3.238	WB
2926	371609.330	3631309.453	-3.570	WB
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2928	371636.711	3631286.947	-3.484	WB
2929	371654.203	3631270.995	-3.150	WB
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2931	371676.662	3631250.429	-3.697	WB
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2933	371715.650	3631199.509	0.535	WES
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2935	371187.659	3631961.172	-4.050	WB
2936	371192.673	3631946.061	-3.959	WB
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2939	371211.876	3631907.954	-3.836	WB
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2941	371235.738	3631856.247	-3.836	WB
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2944	371295.581	3631738.850	-1.669	WB
2945	371297.418	3631734.746	-4.086	WB
2946	371299.061	3631728.390	-3.794	WB
2947	371301.326	3631721.916	-3.815	WB
2948	371304.783	3631714.467	-3.860	WB
2949	371308.208	3631708.972	-3.754	WB
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2953	371328.779	3631659.482	-4.009	WB
2954	371332.960	3631650.014	-3.982	WB
2955	371337.923	3631639.179	-3.497	WB
2956	371343.088	3631627.434	-3.801	WB
2957	371363.235	3631593.023	-3.541	WB
2958	371366.434	3631583.336	-3.453	WB
2959	371370.711	3631570.744	-3.448	WB
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2961	371407.313	3631508.238	0.107	TOE RCK
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2963	371410.377	3631506.185	1.165	WS
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2966	371407.495	3632092.038	-3.913	WB
2967	371410.982	3632081.009	-4.371	WB
2968	371415.861	3632068.413	-3.987	WB
2969	371419.568	3632056.836	-4.268	WB
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2971	371425.044	3632037.982	-4.571	WB
2972	371429.218	3632026.603	-4.436	WB
2973	371434.382	3632016.916	-3.927	WB
2974	371437.745	3632009.718	-3.986	WB
2975	371441.694	3632000.400	-3.718	WB
2976	371446.138	3631990.833	-3.897	WB
2977	371450.482	3631981.699	-3.788	WB
2978	371455.872	3631972.752	-3.818	WB
2979	371459.491	3631963.969	-3.850	WB
2980	371463.094	3631956.740	-3.941	WB
2981	371466.840	3631949.295	-3.864	WB
2982	371470.759	3631941.561	-3.689	WB
2983	371480.556	3631919.231	-3.927	WB
2984	371489.730	3631911.218	-3.935	WB
2985	371493.714	3631903.428	-3.779	WB
2986	371497.963	3631894.987	-3.698	WB
2987	371502.357	3631886.677	-3.719	WB
2988	371504.940	3631877.599	-3.740	WB
2989	371507.280	3631868.290	-3.933	WB
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2993	371527.582	3631829.663	-3.679	WB
2994	371530.756	3631821.824	-3.207	WB
2995	371536.476	3631808.654	-3.696	WB
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2998	371545.414	3631777.349	-3.508	WB
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3000	371553.587	3631758.212	-3.587	WB
3001	371560.013	3631749.287	-3.824	WB
3002	371564.441	3631743.606	-3.761	WB
3003	371571.193	3631730.953	-3.822	WB
3004	371581.372	3631715.656	-3.907	WB
3005	371592.545	3631699.881	-3.589	WB
3006	371598.057	3631685.875	-3.501	WB
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3009	371606.840	3631646.505	-3.206	WB
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3011	371618.276	3631620.413	-2.586	WB
3012	371624.560	3631609.640	-1.186	TOE RCK
3013	371627.390	3631604.173	1.388	CL RCK
3014	371627.059	3631605.407	1.022	WS
3015	371630.987	3632185.476	-3.728	WB
3016	371636.362	3632173.136	-3.868	WB
3017	371641.205	3632160.686	-3.031	WB
3018	371648.162	3632147.890	-1.872	WB

3019	371653.694	3632131.773	-3.872	WB
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3021	371666.915	3632103.593	-3.912	WB
3022	371673.482	3632091.376	-4.022	WB
3023	371679.322	3632080.508	-3.794	WB
3024	371685.288	3632068.983	-4.120	WB
3025	371689.572	3632056.701	-4.005	WB
3026	371696.448	3632044.898	-3.961	WB
3027	371701.707	3632034.209	-4.034	WB
3028	371705.541	3632025.269	-1.998	WB
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3032	371736.913	3631963.799	1.624	WB
3033	371737.858	3631969.994	-3.948	WB
3034	371743.795	3631959.674	-3.793	WB
3035	371746.544	3631951.441	-3.894	WB
3036	371749.380	3631944.176	-0.380	WB
3037	371753.752	3631928.965	-3.792	WB
3038	371757.356	3631915.027	-3.439	WB
3039	371762.938	3631901.039	-3.562	WB
3040	371768.827	3631885.969	-3.609	WB
3041	371775.732	3631872.550	-3.543	WB
3042	371781.887	3631861.035	-3.575	WB
3043	371787.940	3631848.605	-3.413	WB
3044	371795.174	3631834.037	-3.359	WB
3045	371801.613	3631820.382	-3.413	WB
3046	371809.048	3631803.098	-3.380	WB
3047	371815.580	3631787.513	-3.318	WB
3048	371823.993	3631772.472	-3.221	WB
3049	371832.245	3631757.922	-2.877	WB
3050	371839.075	3631743.771	-2.744	WB
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3052	371851.735	3631717.668	-1.339	TOE RCK
3053	371854.204	3631711.393	0.493	CL RCK
3054	371855.325	3631711.090	1.139	WS
3055	370873.773	3630708.381	1.298	WES
3056	370872.849	3630709.899	-0.295	WB
3057	370865.331	3630717.711	-0.476	WB
3058	370860.843	3630719.744	-0.601	WB
3059	370855.623	3630723.633	-1.045	WB
3060	370846.768	3630725.572	-1.342	WB
3061	370838.459	3630730.644	-1.791	WB
3062	370831.454	3630736.523	-2.213	WB
3063	370824.218	3630745.045	-5.925	WB
3064	370728.185	3630839.520	1.191	WES
3065	370731.767	3630837.667	0.167	WB
3066	370741.520	3630833.830	-1.669	WB
3067	370749.853	3630828.312	-2.101	WB
3068	370758.309	3630821.949	-2.900	WB
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3071	370814.932	3630692.770	1.100	WES
3072	370809.503	3630692.605	-0.311	WB
3073	370804.929	3630695.390	-0.936	WB
3074	370800.696	3630700.002	-2.541	WB
3075	370796.587	3630703.807	-3.862	WB
3076	370698.408	3630795.432	1.334	WES
3077	370704.501	3630798.008	-0.092	WB
3078	370707.990	3630797.383	-0.534	WB
3079	370712.254	3630795.223	-0.912	WB
3080	370716.301	3630793.298	-1.243	WB
3081	370719.508	3630791.365	-1.920	WB
3082	370723.839	3630791.277	-2.173	WB
3083	370727.936	3630788.924	-2.251	WB
3084	370732.842	3630786.033	-2.399	WB

3085	370737.162	3630782.433	-2.628	WB
3086	370742.337	3630777.108	-2.670	WB

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# Points

## ***Project : 100282\_Str\_2&4***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	2:34:32 PM 8/9/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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### Point listing

Name	Northing	Easting	Elevation	Feature	Code
88461	369078.000	3631014.200	-10.800		SB
88462	369075.100	3631023.700	-10.400		SB
88463	369840.900	3631234.200	-3.800		SB
88464	369841.900	3631222.100	-3.800		SB
88465	369832.700	3631240.200	-3.900		SB
88466	369826.200	3631206.300	-4.000		SB
88467	369814.200	3631206.000	-4.000		SB
88468	369804.800	3631208.800	-4.000		SB
88469	369836.200	3631211.500	-4.100		SB
88470	369795.100	3631213.000	-4.100		SB
88471	369786.000	3631219.700	-4.100		SB
88472	369778.900	3631228.300	-4.100		SB
88473	369771.200	3631234.900	-4.100		SB
88474	369752.500	3631240.100	-4.100		SB
88475	369743.400	3631236.300	-4.100		SB
88476	369733.200	3631232.500	-4.200		SB
88477	369713.800	3631226.200	-4.200		SB
88478	369761.800	3631239.800	-4.500		SB
88479	369721.900	3631227.900	-4.600		SB
88480	369705.500	3631224.300	-4.100		SB
88481	369679.400	3631217.600	-4.100		SB
88482	369670.500	3631215.900	-4.100		SB
88483	369697.100	3631221.600	-4.200		SB
88484	369688.400	3631219.400	-4.200		SB
88485	369661.500	3631216.000	-4.300		SB
88486	369652.700	3631217.500	-4.500		SB
88487	369643.600	3631218.400	-4.800		SB
88488	369634.400	3631219.800	-4.900		SB
88489	369532.200	3631199.000	-4.900		SB
88490	369522.800	3631197.900	-4.900		SB
88491	369513.000	3631197.400	-4.900		SB
88492	369503.200	3631197.200	-4.900		SB
88493	369493.400	3631196.900	-4.900		SB
88494	369541.800	3631201.100	-5.000		SB
88495	369483.600	3631196.300	-5.000		SB
88496	369625.000	3631220.800	-5.100		SB
88497	369615.700	3631220.500	-5.100		SB
88498	369606.400	3631219.200	-5.100		SB
88499	369579.300	3631210.600	-5.100		SB
88500	369569.900	3631208.200	-5.100		SB
88501	369560.800	3631205.100	-5.100		SB
88502	369551.300	3631202.800	-5.100		SB
88503	369588.400	3631213.500	-5.200		SB
88504	369473.600	3631195.900	-5.200		SB
88505	369597.300	3631216.900	-5.300		SB

88506	369463.600	3631195.900	-5.300	SB
88507	369458.500	3631195.900	-5.400	SB
88508	369448.400	3631195.400	-5.600	SB
88509	369438.100	3631195.000	-5.700	SB
88510	369428.000	3631193.700	-5.900	SB
88511	369348.800	3631161.100	-5.300	SB
88512	369357.600	3631166.500	-5.400	SB
88513	369339.600	3631157.300	-5.400	SB
88514	369330.400	3631155.300	-5.600	SB
88515	369384.200	3631181.000	-5.700	SB
88516	369366.300	3631171.800	-5.700	SB
88517	369321.000	3631153.800	-5.800	SB
88518	369375.200	3631176.500	-5.900	SB
88519	369418.000	3631191.600	-6.000	SB
88520	369408.000	3631189.400	-6.100	SB
88521	369398.200	3631187.000	-6.100	SB
88522	369388.800	3631183.200	-6.100	SB
88523	369311.700	3631154.500	-6.200	SB
88524	369302.600	3631156.600	-6.500	SB
88525	369293.300	3631158.000	-6.700	SB
88526	369274.700	3631157.200	-6.700	SB
88527	369265.300	3631155.900	-6.800	SB
88528	369283.900	3631158.300	-6.900	SB
88529	369248.600	3631149.200	-6.900	SB
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88531	369243.000	3631142.800	-7.300	SB
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88538	369197.900	3631098.700	-8.400	SB
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88548	369086.800	3631010.500	-11.200	SB
88549	369068.800	3630962.500	-11.200	SB
88550	369163.800	3631084.700	-11.300	SB
88551	369073.900	3630982.500	-11.400	SB
88552	369071.600	3630972.600	-11.800	SB
88553	369064.700	3630953.100	-11.800	SB
88554	369092.300	3631019.000	-12.100	SB
88555	369156.000	3631079.600	-12.700	SB
88556	369042.100	3630908.000	-12.700	SB
88557	369147.800	3631074.600	-13.400	SB
88558	369098.300	3631027.300	-13.900	SB
88559	369035.300	3630903.100	-15.200	SB
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88562	369104.600	3631035.300	-15.800	SB
88563	369123.600	3631057.900	-16.000	SB
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88565	368999.300	3630885.000	-16.300	SB
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88571	369063.600	3630918.900	-5.200	SB

88572	369077.200	3630934.400	-5.900	SB
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88574	369059.000	3630908.400	-6.400	SB
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88576	369069.600	3630926.300	-6.500	SB
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88578	369088.600	3630949.400	-6.600	SB
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88597	369177.300	3630990.300	-7.500	SB
88598	369175.200	3630999.400	-7.500	SB
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88602	369146.900	3631012.600	-9.000	SB
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88604	369138.900	3631019.600	-10.700	SB
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88623	369169.900	3631188.000	-5.400	SB
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88625	369103.800	3631125.000	-5.700	SB
88626	369163.800	3631182.200	-5.800	SB
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88637	369226.300	3631205.800	-2.800	SB

88638	369235.000	3631199.300	-3.800	SB
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88643	369241.600	3631193.300	-6.900	SB
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88645	369260.200	3631148.100	-7.000	SB
88646	369254.600	3631166.500	-7.700	SB
88647	369258.400	3631083.500	-3.600	SB
88648	369247.500	3631084.600	-3.800	SB
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88655	369264.200	3631111.200	-4.800	SB
88656	369270.100	3631116.600	-5.000	SB
88657	369264.300	3631120.200	-5.500	SB
88658	369339.700	3631244.400	-2.500	SB
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88660	369324.500	3631236.000	-2.800	SB
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88675	369357.100	3631251.400	-2.300	SB
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88683	369407.600	3631154.900	-3.500	SB
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88699	369440.500	3631160.900	-3.300	SB
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88702	369443.500	3631164.300	-3.500	SB
88703	369432.700	3631164.700	-3.500	SB

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88709	369373.200	3631164.400	-5.000	SB
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88716	369308.500	3631152.600	-6.000	SB
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88718	369300.300	3631148.100	-6.100	SB
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88723	369225.200	3631074.300	-4.400	SB
88724	369218.800	3631067.000	-4.700	SB
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88728	369212.400	3631059.400	-5.300	SB
88729	369264.000	3631118.100	-5.400	SB
88730	369270.500	3631125.200	-5.500	SB
88731	369277.400	3631131.800	-5.700	SB
88732	369093.200	3630946.500	-5.700	SB
88733	369284.700	3631137.800	-5.900	SB
88734	369206.200	3631051.600	-6.200	SB
88735	369113.700	3630962.600	-6.400	SB
88736	369101.400	3630952.900	-6.400	SB
88737	369199.800	3631043.700	-6.700	SB
88738	369105.600	3630956.000	-6.900	SB
88739	369193.300	3631035.900	-7.000	SB
88740	369186.300	3631028.400	-7.600	SB
88741	369152.800	3630996.700	-8.000	SB
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88743	369160.600	3631003.300	-8.500	SB
88744	369172.000	3631013.600	-8.600	SB
88745	369164.500	3631006.600	-8.800	SB
88746	369117.500	3630966.100	-9.300	SB
88747	369125.100	3630973.100	-9.800	SB
88748	369148.900	3630993.300	-10.600	SB
88749	369141.000	3630986.500	-11.600	SB
88750	369128.900	3630976.600	-11.900	SB
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88752	369075.100	3630922.500	-4.600	SB
88753	369072.000	3630918.700	-5.200	SB
88754	369081.100	3630930.500	-5.300	SB
88755	369066.400	3630911.400	-5.400	SB
88756	369040.200	3630930.400	-6.700	SB
88757	369062.000	3630903.200	-7.500	SB
88758	369047.100	3630938.600	-7.900	SB
88759	369053.800	3630947.500	-8.200	SB
88760	369060.300	3630957.000	-8.500	SB
88761	369031.100	3630918.500	-9.200	SB
88762	369057.900	3630894.900	-10.200	SB
88763	369082.900	3630998.500	-10.600	SB
88764	369053.000	3630887.600	-10.700	SB
88765	369077.700	3630987.700	-11.100	SB
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88767	369087.600	3631009.800	-11.600	SB
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88769	369021.900	3630908.800	-12.700	SB

88770	369098.700	3631045.100	-12.900	SB
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88772	369095.000	3631033.200	-14.000	SB
88773	369047.700	3630881.900	-16.000	SB
88774	369041.700	3630877.700	-16.200	SB
88775	369016.200	3630898.800	-16.300	SB
88776	369035.200	3630875.500	-17.000	SB
88777	369028.500	3630875.400	-17.100	SB
88778	369013.500	3630887.100	-17.900	SB
88779	369019.300	3630879.200	-19.300	SB
88780	369187.800	3631167.300	-5.100	SB
88781	369183.200	3631164.600	-5.300	SB
88782	369334.300	3631217.700	-5.400	SB
88783	369123.100	3631103.600	-5.500	SB
88784	369174.100	3631159.000	-5.900	SB
88785	369344.500	3631219.900	-5.900	SB
88786	369349.500	3631221.300	-6.100	SB
88787	369197.400	3631171.800	-6.200	SB
88788	369329.200	3631216.800	-6.200	SB
88789	369169.600	3631156.000	-6.300	SB
88790	369217.000	3631179.000	-6.400	SB
88791	369226.100	3631184.300	-6.400	SB
88792	369289.300	3631205.300	-6.400	SB
88793	369299.500	3631207.700	-6.400	SB
88794	369212.200	3631177.000	-6.500	SB
88795	369274.100	3631202.000	-6.500	SB
88796	369240.100	3631190.800	-6.600	SB
88797	369244.900	3631192.400	-6.600	SB
88798	369254.500	3631195.500	-6.600	SB
88799	369269.200	3631200.400	-6.600	SB
88800	369284.200	3631204.400	-6.600	SB
88801	369304.500	3631209.200	-6.600	SB
88802	369314.200	3631212.700	-6.600	SB
88803	369161.200	3631148.900	-6.700	SB
88804	369202.300	3631173.600	-6.700	SB
88805	369259.400	3631197.200	-6.700	SB
88806	369319.200	3631214.200	-6.700	SB
88807	369136.600	3631124.900	-6.800	SB
88808	369230.600	3631186.900	-6.900	SB
88809	369157.100	3631145.100	-7.000	SB
88810	369148.700	3631137.600	-7.100	SB
88811	369144.500	3631133.700	-7.300	SB
88812	369133.000	3631119.800	-7.800	SB
88813	369126.400	3631109.000	-8.700	SB
88814	369117.400	3631092.100	-8.800	SB
88815	369115.200	3631086.100	-9.600	SB
88816	369110.500	3631074.300	-10.100	SB
88817	369108.100	3631068.500	-10.400	SB
88818	369103.400	3631056.800	-12.000	SB
88819	369425.900	3631161.300	-3.400	SB
88820	369438.200	3631164.600	-3.500	SB
88821	369445.500	3631172.700	-3.800	SB
88822	369413.100	3631164.200	-3.800	SB
88823	369403.700	3631169.500	-4.400	SB
88824	369448.800	3631185.300	-4.500	SB
88825	369448.400	3631198.500	-5.700	SB
88826	369394.300	3631176.600	-5.700	SB
88827	369359.600	3631223.600	-6.100	SB
88828	369364.700	3631224.700	-6.300	SB
88829	369374.900	3631227.200	-6.400	SB
88830	369379.900	3631228.600	-6.500	SB
88831	369390.000	3631231.200	-6.500	SB
88832	369395.100	3631232.800	-6.500	SB
88833	369405.100	3631236.800	-6.500	SB
88834	369410.300	3631238.800	-6.600	SB
88835	369387.500	3631181.800	-6.600	SB

88836	369448.700	3631210.100	-6.700	SB
88837	369425.600	3631241.100	-6.800	SB
88838	369420.700	3631241.100	-6.900	SB
88839	369380.500	3631187.200	-6.900	SB
88840	369366.900	3631199.900	-6.900	SB
88841	369441.400	3631235.200	-7.000	SB
88842	369445.800	3631229.700	-7.000	SB
88843	369448.800	3631220.500	-7.000	SB
88844	369373.500	3631193.100	-7.200	SB
88845	369434.400	3631239.200	-7.300	SB
88846	369312.600	3631232.200	-3.000	SB
88847	369320.800	3631232.100	-3.100	SB
88848	369304.100	3631228.100	-3.200	SB
88849	369329.600	3631229.600	-4.000	SB
88850	369284.200	3631126.400	-4.900	SB
88851	369289.700	3631132.200	-5.000	SB
88852	369274.600	3631122.300	-5.000	SB
88853	369301.100	3631218.600	-5.500	SB
88854	369293.800	3631140.000	-5.700	SB
88855	369353.800	3631214.600	-5.900	SB
88856	369266.300	3631124.400	-6.000	SB
88857	369338.100	3631224.800	-6.100	SB
88858	369295.800	3631149.400	-6.200	SB
88859	369346.100	3631219.900	-6.500	SB
88860	369257.400	3631132.900	-6.600	SB
88861	369296.000	3631159.200	-6.700	SB
88862	369360.600	3631207.600	-6.900	SB
88863	369298.800	3631209.400	-6.900	SB
88864	369297.500	3631198.600	-7.200	SB
88865	369296.400	3631173.200	-7.200	SB
88866	369249.900	3631140.900	-7.200	SB
88867	369297.400	3631186.200	-7.300	SB
88868	369240.800	3631148.900	-7.400	SB
88869	369222.900	3631056.600	-4.000	SB
88870	369222.500	3631065.500	-4.100	SB
88871	369220.900	3631048.800	-4.600	SB
88872	369219.300	3631075.000	-4.900	SB
88873	369214.400	3631084.100	-5.200	SB
88874	369214.700	3631039.700	-5.200	SB
88875	369191.700	3631165.100	-6.000	SB
88876	369225.300	3631166.200	-6.300	SB
88877	369198.200	3631170.900	-6.400	SB
88878	369205.900	3631034.500	-6.400	SB
88879	369232.100	3631159.400	-6.600	SB
88880	369217.400	3631170.700	-6.600	SB
88881	369209.400	3631172.600	-6.700	SB
88882	369191.300	3631155.300	-6.900	SB
88883	369209.800	3631092.700	-7.100	SB
88884	369195.100	3631036.800	-7.200	SB
88885	369199.600	3631118.900	-7.700	SB
88886	369204.100	3631106.000	-8.100	SB
88887	369193.500	3631142.500	-8.700	SB
88888	369196.200	3631131.200	-8.700	SB
88889	369183.700	3631043.000	-9.600	SB
88890	369089.700	3631077.000	-6.200	SB
88891	369065.000	3631037.900	-6.200	SB
88892	369071.200	3631054.400	-6.400	SB
88893	369063.500	3631029.100	-6.500	SB
88894	369067.500	3631046.400	-6.600	SB
88895	369098.300	3631083.500	-6.800	SB
88896	369075.800	3631061.800	-6.900	SB
88897	369106.800	3631088.500	-7.200	SB
88898	369064.600	3631016.100	-7.300	SB
88899	369081.000	3631068.500	-7.400	SB
88900	369065.700	3631006.900	-8.300	SB
88901	369066.400	3630997.200	-8.800	SB

88902	369117.400	3631089.200	-9.100	SB
88903	369109.800	3630965.100	-10.200	SB
88904	369069.200	3630988.400	-10.300	SB
88905	369126.000	3631085.200	-11.000	SB
88906	369174.300	3631049.500	-11.500	SB
88907	369097.900	3630965.200	-12.300	SB
88908	369133.900	3631078.500	-13.500	SB
88909	369163.500	3631055.800	-13.700	SB
88910	369076.500	3630978.000	-14.400	SB
88911	369140.900	3631071.400	-14.500	SB
88912	369152.200	3631063.000	-14.800	SB
88913	369086.300	3630969.600	-17.300	SB
88914	369297.900	3631084.800	-1.200	SB
88915	369283.700	3631080.500	-1.900	SB
88916	369291.300	3631082.200	-2.000	SB
88917	369267.000	3631077.000	-2.600	SB
88918	369241.400	3631065.200	-3.100	SB
88919	369258.600	3631073.100	-3.300	SB
88920	369232.600	3631061.600	-3.500	SB
88921	369250.200	3631068.800	-3.500	SB
88922	369224.400	3631056.200	-3.700	SB
88923	369216.600	3631050.100	-4.500	SB
88924	369208.900	3631043.800	-5.400	SB
88925	369201.000	3631037.600	-6.200	SB
88926	369194.100	3631030.400	-6.700	SB
88927	369187.700	3631022.900	-7.000	SB
88928	369180.500	3631016.000	-7.300	SB
88929	369173.600	3631009.300	-7.800	SB
88930	369152.500	3630990.400	-8.000	SB
88931	369163.300	3630999.300	-8.000	SB
88932	369121.900	3630967.500	-9.100	SB
88933	369132.800	3630973.400	-9.900	SB
88934	369142.600	3630981.300	-10.200	SB

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# Points

## ***Project : 100282\_Str\_2&4***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	2:33:06 PM 8/9/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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### Point listing

Name	Northing	Easting	Elevation	Feature	Code
87009	370909.270	3630914.900	-5.300		SB
87010	370916.000	3630908.920	-5.300		SB
87006	370920.880	3630900.310	-4.900		SB
87005	370924.710	3630890.440	-4.300		SB
87011	370898.780	3630919.320	-5.400		SB
87008	370887.500	3630920.050	-5.200		SB
87007	370876.690	3630920.160	-5.100		SB
87004	370925.420	3630880.430	-4.000		SB
87003	370921.350	3630871.790	-3.900		SB
87002	370917.330	3630864.450	-3.800		SB
87001	370911.520	3630856.500	-3.700		SB
87012	370904.510	3630849.720	-3.700		SB
87013	370895.790	3630843.370	-3.800		SB
87014	370886.190	3630838.570	-4.100		SB
87015	370875.690	3630836.840	-6.200		SB
87016	370865.660	3630838.610	-6.900		SB
87021	370853.850	3630839.790	-7.600		SB
87026	370845.900	3630835.180	-8.100		SB
87029	370838.130	3630830.060	-8.400		SB
87030	370831.920	3630823.150	-8.700		SB
87027	370827.780	3630815.210	-8.300		SB
87024	370824.770	3630806.090	-7.800		SB
87019	370822.110	3630795.010	-7.400		SB
87017	370816.590	3630785.090	-6.900		SB
87018	370812.110	3630778.470	-7.100		SB
87025	370807.470	3630771.480	-7.800		SB
87103	370809.470	3630767.920	-6.500		SB
87107	370802.140	3630774.490	-7.900		SB
87022	370801.630	3630765.870	-7.600		SB
87102	370781.270	3630795.890	-6.300		SB
87101	370774.200	3630802.580	-6.100		SB
87106	370794.270	3630780.550	-7.900		SB
87104	370787.730	3630788.420	-7.400		SB
87097	370740.570	3630828.840	-1.900		SB
87099	370758.970	3630816.910	-3.100		SB
87100	370767.190	3630809.150	-4.400		SB
87096	370749.520	3630823.050	-1.200		SB
87098	370747.920	3630823.170	-2.300		SB
87090	370752.150	3630815.200	-2.100		SB
87093	370742.930	3630811.890	-2.500		SB
87092	370735.560	3630803.300	-2.500		SB
87091	370728.700	3630795.480	-2.200		SB
87094	370735.140	3630764.470	-2.700		SB
87089	370725.910	3630764.720	-2.100		SB
87088	370716.830	3630793.870	-2.000		SB

87087	370707.060	3630787.420	-1.800	SB
87084	370717.810	3630766.890	-1.200	SB
87086	370710.560	3630770.710	-1.600	SB
87085	370705.570	3630778.060	-1.300	SB
87113	370863.510	3630752.310	-2.300	SB
87112	370862.460	3630741.890	-2.100	SB
87114	370855.440	3630758.860	-2.600	SB
87108	370856.060	3630733.990	-1.500	SB
87115	370845.040	3630759.300	-3.100	SB
87117	370833.770	3630758.920	-3.700	SB
87110	370837.870	3630733.030	-1.900	SB
87109	370831.160	3630737.640	-1.900	SB
87111	370846.610	3630730.880	-1.900	SB
87119	370823.330	3630754.790	-7.100	SB
87118	370817.430	3630750.420	-6.900	SB
87116	370824.000	3630744.140	-3.400	SB
87105	370813.480	3630757.480	-7.500	SB
87122	370813.640	3630747.510	-7.800	SB
87083	370809.100	3630739.330	-8.000	SB
87120	370803.530	3630741.030	-7.400	SB
87080	370813.490	3630731.450	-7.000	SB
87074	370811.860	3630720.730	-4.300	SB
87073	370805.040	3630712.770	-3.800	SB
87125	370800.250	3630715.480	-6.200	SB
87123	370801.640	3630706.830	-2.900	SB
87020	370794.900	3630761.690	-7.500	SB
87023	370787.800	3630758.090	-7.700	SB
87124	370788.790	3630748.610	-5.200	SB
87079	370798.510	3630740.540	-6.900	SB
87121	370796.240	3630734.010	-7.400	SB
87126	370792.250	3630738.630	-6.600	SB
87061	370787.980	3630733.240	-6.800	SB
87077	370787.410	3630738.790	-6.300	SB
87028	370780.350	3630753.980	-8.300	SB
87064	370774.510	3630751.320	-7.900	SB
87048	370772.410	3630750.000	-8.700	SB
87058	370781.830	3630743.300	-5.400	SB
87075	370777.020	3630738.330	-4.800	SB
87128	370796.060	3630728.140	-7.600	SB
87129	370796.790	3630724.290	-7.800	SB
87127	370798.520	3630717.230	-7.000	SB
87072	370794.030	3630724.340	-1.100	SB
87078	370795.200	3630713.560	-6.700	SB
87065	370765.030	3630751.380	-8.600	SB
87049	370764.990	3630745.640	-8.700	SB
87081	370766.790	3630740.960	-7.000	SB
87044	370759.120	3630741.050	-7.700	SB
87063	370755.830	3630747.400	-7.500	SB
87082	370756.040	3630745.270	-7.200	SB
87043	370754.270	3630735.780	-7.400	SB
87076	370748.600	3630752.840	-5.500	SB
87095	370744.760	3630760.750	-3.900	SB
87062	370749.640	3630742.410	-7.000	SB
87059	370744.020	3630736.330	-5.800	SB
87038	370750.600	3630730.260	-5.900	SB
87039	370745.190	3630721.680	-6.100	SB
87060	370739.850	3630728.280	-6.000	SB
87036	370740.740	3630715.940	-5.200	SB
87057	370735.320	3630720.340	-5.000	SB
87041	370736.290	3630710.270	-7.200	SB
87056	370729.360	3630712.450	-4.500	SB
87050	370732.270	3630704.020	-8.700	SB
87066	370723.570	3630704.710	-9.100	SB
87054	370728.590	3630697.260	-9.300	SB
87053	370726.640	3630690.400	-9.100	SB
87045	370725.930	3630683.180	-7.900	SB

87040	370725.710	3630675.690	-6.100	SB
87067	370716.930	3630694.350	-11.100	SB
87069	370707.960	3630685.330	-12.800	SB
87035	370725.160	3630667.980	-4.600	SB
87033	370724.010	3630660.660	-3.900	SB
87031	370721.560	3630653.330	-3.800	SB
87032	370717.610	3630646.520	-3.800	SB
87034	370712.300	3630640.610	-4.100	SB
87037	370705.980	3630636.040	-5.700	SB
87071	370699.230	3630676.820	-13.600	SB
87070	370690.930	3630670.730	-13.400	SB
87068	370683.750	3630663.580	-12.800	SB
87055	370675.460	3630655.090	-10.000	SB
87047	370670.000	3630644.690	-8.300	SB
87042	370698.770	3630632.790	-7.200	SB
87046	370691.150	3630631.150	-8.200	SB
87052	370683.600	3630631.250	-9.000	SB
87051	370674.270	3630634.960	-8.700	SB

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## **SECTION F**

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### **RTK Survey & Hydro Survey at Lake Rim & Breton Canal**

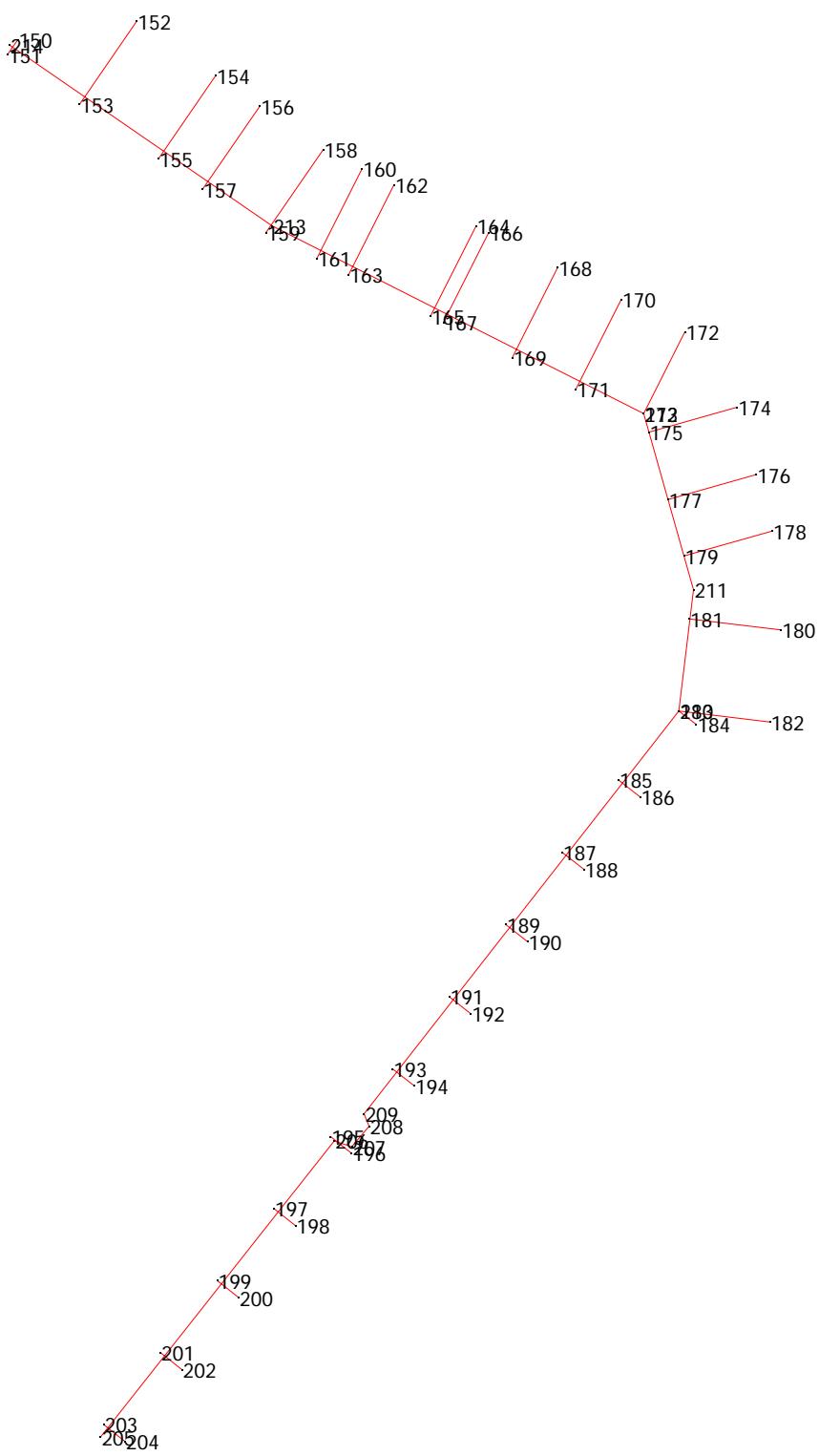
Preplot Transects & Points Listing

Post-Survey Map

RTK Topo Points Listing

Singlebeam & Multibeam Points Listing

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 1000 ft  
0 1750 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 1000 ft  
Printed on 8/9/2010, at 4:31:48 PM

Printed from Trimble Geomatics Office

Site: Not selected, System: US State  
Zone: Louisiana South 1702, Datum:

Project: 100282\_Lake Rim  
USFeet Template

# Points

## Project : 100282\_Lake Rim

<b>User name</b>	rmj	<b>Date &amp; Time</b>	4:25:21 PM 8/9/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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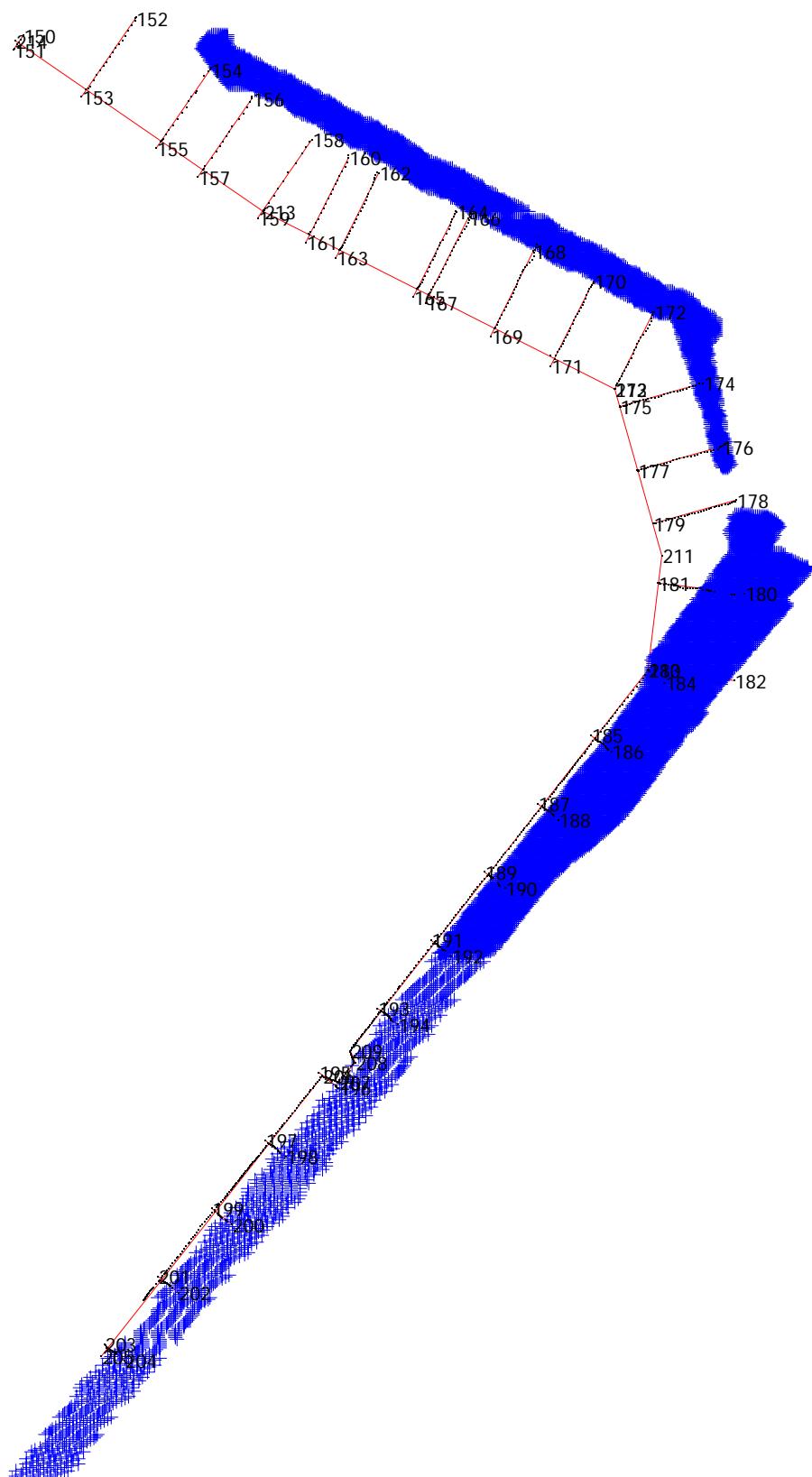
### Point listing

Name	Northing	Easting	Elevation	Feature Code
150	368999.970	3631047.310	0.000	LAKE RIM
151	368917.600	3630990.600	0.000	LAKE RIM
152	369100.100	3631695.390	0.000	LAKE RIM
153	368647.100	3631383.480	0.000	LAKE RIM
154	368803.510	3632126.160	0.000	LAKE RIM
155	368350.500	3631814.250	0.000	LAKE RIM
156	368637.350	3632367.490	0.000	LAKE RIM
157	368184.340	3632055.580	0.000	LAKE RIM
158	368399.740	3632712.590	0.000	LAKE RIM
159	367946.730	3632400.690	0.000	LAKE RIM
160	368296.400	3632925.480	0.000	LAKE RIM
161	367805.430	3632677.590	0.000	LAKE RIM
162	368208.510	3633099.550	0.000	LAKE RIM
163	367717.540	3632851.660	0.000	LAKE RIM
164	367982.700	3633546.780	0.000	LAKE RIM
165	367491.730	3633298.890	0.000	LAKE RIM
166	367947.550	3633616.400	0.000	LAKE RIM
167	367456.580	3633368.510	0.000	LAKE RIM
168	367757.350	3633993.110	0.000	LAKE RIM
169	367266.380	3633745.220	0.000	LAKE RIM
170	367582.470	3634339.470	0.000	LAKE RIM
171	367091.500	3634091.580	0.000	LAKE RIM
172	367406.790	3634687.430	0.000	LAKE RIM
173	366960.450	3634462.070	0.000	LAKE RIM
174	366994.810	3634971.970	0.000	LAKE RIM
175	366858.310	3634489.370	0.000	LAKE RIM
176	366627.490	3635075.860	0.000	LAKE RIM
177	366491.200	3634594.000	0.000	LAKE RIM
178	366319.510	3635162.970	0.000	LAKE RIM
179	366183.540	3634682.250	0.000	LAKE RIM
180	365780.000	3635210.920	0.000	LAKE RIM
181	365840.450	3634709.770	0.000	LAKE RIM
182	365278.060	3635150.380	0.000	LAKE RIM
183	365337.930	3634653.980	0.000	LAKE RIM
184	365264.310	3634748.730	0.000	LAKE RIM
185	364961.520	3634323.500	0.000	LAKE RIM
186	364869.480	3634441.950	0.000	LAKE RIM
187	364566.700	3634016.720	0.000	LAKE RIM
188	364474.660	3634135.170	0.000	LAKE RIM
189	364172.650	3633709.210	0.000	LAKE RIM
190	364079.970	3633827.150	0.000	LAKE RIM
191	363779.520	3633400.270	0.000	LAKE RIM
192	363686.830	3633518.210	0.000	LAKE RIM
193	363386.380	3633091.320	0.000	LAKE RIM
194	363293.700	3633209.260	0.000	LAKE RIM

195	363015.630	3632754.030	0.000	LAKE RIM
196	362925.570	3632868.090	0.000	LAKE RIM
197	362623.210	3632444.190	0.000	LAKE RIM
198	362530.260	3632561.910	0.000	LAKE RIM
199	362230.790	3632134.340	0.000	LAKE RIM
200	362137.830	3632252.070	0.000	LAKE RIM
201	361838.360	3631824.500	0.000	LAKE RIM
202	361745.410	3631942.220	0.000	LAKE RIM
203	361445.940	3631514.650	0.000	LAKE RIM
204	361352.990	3631632.380	0.000	LAKE RIM
205	361377.670	3631498.970	0.000	LAKE RIM
206	362992.520	3632774.010	0.000	LAKE RIM
207	362959.910	3632868.830	0.000	LAKE RIM
208	363073.050	3632963.640	0.000	LAKE RIM
209	363140.320	3632936.110	0.000	LAKE RIM
210	365337.930	3634653.980	0.000	LAKE RIM
211	365999.730	3634733.800	0.000	LAKE RIM
212	366960.450	3634462.070	0.000	LAKE RIM
213	367984.230	3632434.390	0.000	LAKE RIM
214	368971.060	3631001.130	0.000	LAKE RIM

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Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 1000 ft  
0 1750 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 1000 ft  
Printed on 8/9/2010, at 4:31:03 PM

Printed from Trimble Geomatics Office

Site: Not selected, System: US State  
Zone: Louisiana South 1702, Datum:

Project: 100282\_Lake Rim  
USFeet Template

# Points

## ***Project : 100282\_Lake Rim***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	3:29:19 PM 8/9/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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**Point listing**

Name	Northing	Easting	Elevation	Feature	Code
1479	384874.476	3634114.327	0.755		CHK
1480	369000.922	3631047.320	0.847		NG
1481	368979.043	3631033.502	0.957		NG
1482	368963.683	3631022.320	0.666	EDG	RCK/NG
1483	368951.144	3631013.925	1.385	EDG	RCK/NG
1484	368924.898	3630995.647	1.004		NG
1485	369108.992	3631701.187	-3.655		WB
1486	369085.803	3631692.026	-3.660		WB
1487	369058.899	3631673.370	-3.047		WB
1488	369028.906	3631650.412	-3.550		WB
1489	368999.087	3631634.708	-3.706		WB
1490	368973.240	3631618.696	-3.885		WB
1491	368951.023	3631599.732	-3.765		WB
1492	368929.048	3631581.561	-3.997		WB
1493	368902.125	3631564.908	-4.487		WB
1494	368878.382	3631550.675	-2.623		WB
1495	368849.258	3631529.351	-4.255		WB
1496	368824.728	3631511.090	-4.243		WB
1497	368800.529	3631492.990	-3.602		WB
1498	368771.730	3631472.407	-4.610		WB
1499	368742.733	3631455.598	-4.541		WB
1500	368704.393	3631434.287	-1.646	RCKS	
1501	368697.104	3631423.939	-6.296	RCKS	
1502	368816.656	3632132.907	-4.592		WB
1503	368796.457	3632118.019	-4.698		WB
1504	368766.660	3632091.789	-4.638		WB
1505	368682.994	3632048.700	-1.322		WB
1506	368671.570	3632041.022	-4.552		WB
1507	368649.411	3632019.553	-4.545		WB
1508	368620.924	3632002.793	-3.987		WB
1509	368588.843	3631988.713	-3.623		WB
1510	368555.482	3631963.235	-5.101		WB
1511	368518.676	3631940.832	-4.952		WB
1512	368483.749	3631910.616	-5.044		WB
1513	368455.489	3631888.068	-4.959		WB
1514	368431.370	3631873.075	-4.320		WB
1515	368402.314	3631856.885	-3.581	RCKS	
1516	368395.905	3631842.966	0.218		WS
1517	368390.026	3631842.167	0.240	CL	RCKS
1518	368397.230	3631849.322	-1.175	TOE	RCKS
1519	368688.830	3631408.468	-2.290	CL	FSHDP
1520	368646.491	3632366.571	-4.663		WB
1521	368617.438	3632358.287	-4.563		WB
1522	368587.511	3632342.011	-4.522		WB
1523	368550.572	3632318.423	-4.787		WB

1524	368520.119	3632294.985	-4.451	WB
1525	368475.128	3632250.094	-4.547	WB
1526	368446.797	3632233.993	-4.311	WB
1527	368419.631	3632219.151	-4.443	WB
1528	368391.268	3632199.817	-4.456	WB
1529	368362.869	3632181.650	-4.385	WB
1530	368331.067	3632160.187	-5.297	WB
1531	368296.954	3632137.638	-5.338	WB
1532	368246.231	3632094.035	-3.843	WB
1533	368233.823	3632088.237	-2.870	RCKS
1534	368226.821	3632082.559	-2.548	CL FSHDP
1535	368213.417	3632105.211	0.714	WB
1536	368386.821	3632698.639	-4.872	WB
1537	368359.494	3632680.562	-4.695	WB
1538	368318.415	3632659.185	-4.490	WB
1539	368264.183	3632618.762	-5.101	WB
1540	368211.443	3632575.828	-4.562	WB
1541	368159.454	3632550.596	-5.147	WB
1542	368116.113	3632517.606	-5.504	WB
1543	368076.878	3632493.647	-5.501	WB
1544	368036.098	3632463.526	-4.740	WB
1545	368004.688	3632443.902	-3.739	TOE RCKS
1546	367995.200	3632437.661	0.243	RCKS
1547	367993.496	3632433.365	0.829	CL RCKS/WS
1548	367852.407	3632697.281	-2.549	CL FSHDP
1549	367858.083	3632696.305	-3.271	RCKS
1550	367866.345	3632706.179	-3.468	TOE RCKS
1551	368310.542	3632923.727	-4.729	WB
1552	368293.459	3632922.902	-4.620	WB
1553	368266.465	3632919.020	-4.755	WB
1554	368243.875	3632909.561	-4.494	WB
1555	368219.170	3632888.910	-4.281	WB
1556	368189.372	3632873.644	-4.747	WB
1557	368164.601	3632861.852	-4.567	WB
1558	368143.358	3632848.651	-4.449	WB
1559	368113.052	3632835.486	-4.144	WB
1560	368086.160	3632825.523	-4.701	WB
1561	368060.161	3632810.671	-4.470	WB
1562	368031.941	3632795.580	-4.946	WB
1563	368004.861	3632781.187	-5.325	WB
1564	367975.219	3632766.228	-5.631	WB
1565	367943.047	3632749.760	-4.711	WB
1566	367922.040	3632737.824	-5.687	WB
1567	367893.061	3632725.538	-6.342	WB
1568	367841.383	3632726.508	0.932	WES
1569	367763.353	3632871.101	1.029	CL RCKS/WE
1570	367765.067	3632875.302	1.009	WES
1571	367767.747	3632877.179	-0.260	RCKS
1572	367774.831	3632880.909	-3.168	TOE RCKS
1573	368209.778	3633088.776	-4.472	WB
1574	368193.198	3633078.011	-4.539	WB
1575	368181.366	3633075.556	-4.484	WB
1576	368168.713	3633072.637	-4.867	WB
1577	368154.998	3633069.848	-4.964	WB
1578	368138.625	3633064.103	-4.564	WB
1579	368120.093	3633055.671	-4.618	WB
1580	368087.956	3633035.968	-4.402	WB
1581	368070.313	3633032.606	-4.753	WB
1582	368052.180	3633025.143	-4.698	WB
1583	368029.818	3633018.832	-4.716	WB
1584	368009.114	3633007.916	-4.621	WB
1585	367986.729	3632995.650	-4.747	WB
1586	367964.310	3632983.282	-4.925	WB
1587	367941.390	3632972.048	-4.954	WB
1588	367918.363	3632961.886	-5.359	WB
1589	367894.206	3632949.425	-5.276	WB

1590	367873.540	3632934.684	-5.588	
1591	367855.236	3632926.051	-5.393	WB
1592	367838.143	3632917.184	-5.257	WB
1593	367822.490	3632908.186	-4.775	WB
1594	367805.893	3632900.449	-4.895	WB
1595	367789.457	3632891.901	-4.897	WB
1596	367776.690	3632886.261	-3.793	WB
1597	367537.801	3633320.963	1.466	CL RCKS
1598	367540.895	3633322.305	1.143	WES
1599	367544.098	3633324.673	-1.176	RCKS
1600	367551.890	3633327.600	-2.668	TOE RCKS
1601	367985.695	3633543.553	-4.602	WB
1602	367971.436	3633537.612	-4.598	WB
1603	367954.691	3633530.542	-4.628	WB
1604	367939.580	3633523.959	-4.627	WB
1605	367922.778	3633519.659	-4.800	WB
1606	367902.956	3633514.082	-4.508	WB
1607	367880.683	3633504.520	-4.543	WB
1608	367859.356	3633490.500	-4.732	WB
1609	367823.712	3633471.658	-0.501	WB
1610	367803.839	3633456.717	-4.629	WB
1611	367787.677	3633450.162	-4.556	WB
1612	367768.082	3633441.295	-4.887	WB
1613	367745.264	3633430.670	-4.514	WB
1614	367727.187	3633423.196	-4.705	WB
1615	367705.778	3633412.559	-3.736	WB
1616	367683.247	3633398.035	-5.288	WB
1617	367662.489	3633389.764	-5.418	WB
1618	367637.785	3633380.551	-4.490	WB
1619	367611.784	3633365.189	-5.779	WB
1620	367593.252	3633356.429	-5.241	WB
1621	367578.423	3633350.595	-5.275	WB
1622	367566.574	3633341.062	-4.986	WB
1623	367553.963	3633332.639	-3.773	WB
1624	367503.753	3633386.112	-2.272	CL FSHDP
1625	367507.817	3633388.948	-3.207	TOE RCKS
1626	367519.118	3633398.060	-4.383	WB
1627	367973.198	3633632.975	-4.503	WB
1628	367954.018	3633629.295	-4.904	WB
1629	367935.787	3633622.790	-4.721	WB
1630	367920.827	3633615.738	-4.296	WB
1631	367901.087	3633605.344	-4.583	WB
1632	367885.578	3633593.785	-3.648	WB
1633	367863.545	3633577.186	-4.788	WB
1634	367843.189	3633567.111	-4.449	WB
1635	367820.457	3633557.382	-4.487	WB
1636	367799.819	3633544.759	-4.967	WB
1637	367778.662	3633533.551	-4.811	WB
1638	367756.962	3633520.646	-4.341	WB
1639	367731.370	3633509.443	-5.229	WB
1640	367705.043	3633496.217	-3.911	WB
1641	367679.951	3633483.687	-3.261	WB
1642	367655.980	3633469.800	-5.876	WB
1643	367635.869	3633458.662	-4.556	WB
1644	367607.661	3633448.537	-5.640	WB
1645	367590.358	3633439.442	-5.119	WB
1646	367570.416	3633425.429	-5.781	WB
1647	367552.289	3633413.313	-6.141	WB
1648	367536.841	3633404.709	-5.325	WB
1649	367491.663	3633417.790	0.936	WES
1650	367313.031	3633769.252	1.337	CL RCKS
1651	367314.413	3633772.510	0.951	WES
1652	367313.835	3633773.044	0.899	WES
1653	367316.675	3633774.649	-1.352	TOE RCKS
1654	367794.415	3634011.714	-4.929	WB
1655	367781.116	3634006.465	-4.730	WB

1656	367763.721	3634002.469	-4.586	
1657	367746.682	3633998.719	-4.801	WB
1658	367725.297	3633993.468	-4.798	WB
1659	367707.071	3633984.299	-4.774	WB
1660	367690.508	3633968.736	-4.799	WB
1661	367677.855	3633953.055	-4.593	WB
1662	367665.070	3633942.684	-4.535	WB
1663	367651.113	3633934.335	-4.697	WB
1664	367636.650	3633926.844	-4.788	WB
1665	367618.583	3633918.437	-4.551	WB
1666	367603.476	3633913.007	-4.636	WB
1667	367584.412	3633903.125	-4.716	WB
1668	367567.457	3633896.289	-4.883	WB
1669	367550.217	3633890.339	-4.758	WB
1670	367532.958	3633882.062	-4.613	WB
1671	367515.162	3633874.696	-4.710	WB
1672	367495.392	3633864.013	-4.483	WB
1673	367477.804	3633856.054	-4.521	WB
1674	367457.369	3633845.129	-5.187	WB
1675	367436.765	3633833.892	-5.367	WB
1676	367415.045	3633822.475	-5.181	WB
1677	367388.114	3633807.590	-5.010	WB
1678	367366.569	3633797.542	-4.639	WB
1679	367347.135	3633788.855	-4.523	WB
1680	367332.360	3633782.640	-4.078	WB
1681	367572.085	3634340.047	-5.011	WB
1682	367562.423	3634331.079	-5.139	WB
1683	367551.711	3634324.587	-5.165	WB
1684	367539.522	3634316.539	-5.274	WB
1685	367522.498	3634307.434	-5.322	WB
1686	367502.602	3634300.014	-5.006	WB
1687	367482.692	3634291.719	-5.077	WB
1688	367463.631	3634282.716	-5.174	WB
1689	367445.714	3634275.314	-4.987	WB
1690	367429.452	3634267.759	-4.976	WB
1691	367410.622	3634257.679	-4.975	WB
1692	367393.895	3634247.366	-4.789	WB
1693	367376.404	3634237.353	-4.939	WB
1694	367357.473	3634227.861	-5.170	WB
1695	367335.515	3634217.976	-4.812	WB
1696	367312.979	3634207.233	-4.886	WB
1697	367293.203	3634197.254	-5.280	WB
1698	367274.062	3634186.796	-5.732	WB
1699	367255.996	3634178.053	-5.448	WB
1700	367238.441	3634170.135	-5.427	WB
1701	367221.329	3634160.878	-5.897	WB
1702	367205.065	3634150.033	-5.827	WB
1703	367188.133	3634141.795	-5.992	WB
1704	367173.485	3634134.095	-5.041	WB
1705	367153.173	3634120.628	-4.327	WB
1706	367136.234	3634113.795	-2.127	CL FSHDP
1707	367153.128	3634090.723	0.766	WS
1708	366960.789	3634460.641	0.680	CL RCKS
1709	366961.102	3634463.100	0.751	WES
1710	366962.515	3634466.790	-2.317	TOE RCKS
1711	367405.683	3634678.015	-4.694	WB
1712	367388.611	3634678.962	-4.673	WB
1713	367370.296	3634675.726	-4.534	WB
1714	367351.970	3634670.983	-4.482	WB
1715	367329.543	3634662.310	-4.482	WB
1716	367310.204	3634654.040	-4.438	WB
1717	367293.147	3634641.809	-4.640	WB
1718	367275.422	3634626.186	-4.554	WB
1719	367255.756	3634613.062	-4.647	WB
1720	367236.531	3634600.548	-4.303	WB
1721	367220.073	3634590.025	-4.597	WB

1722	367203.693	3634582.821	-4.839	
1723	367185.927	3634575.979	-4.544	WB
1724	367163.189	3634566.876	-4.831	WB
1725	367139.469	3634556.278	-4.692	WB
1726	367118.472	3634545.507	-4.462	WB
1727	367099.788	3634535.013	-4.520	WB
1728	367084.279	3634525.344	-4.563	WB
1729	367066.415	3634515.496	-5.199	WB
1730	367051.074	3634506.853	-5.629	WB
1731	367036.957	3634499.280	-5.939	WB
1732	367021.165	3634491.932	-5.558	WB
1733	367006.896	3634484.193	-5.180	WB
1734	366995.423	3634476.796	-5.211	WB
1735	366982.360	3634469.808	-4.612	WB
1736	366860.553	3634489.475	1.457	CL RCKS
1737	366856.844	3634493.021	0.851	WES
1738	366857.177	3634497.439	-1.298	TOE RCKS
1739	366994.475	3634950.017	0.247	WB
1740	366984.088	3634928.209	-4.314	WB
1741	366979.667	3634912.446	-2.502	WB
1742	366971.891	3634894.868	-4.200	WB
1743	366963.383	3634876.619	-3.750	WB
1744	366955.404	3634856.577	-4.178	WB
1745	366950.678	3634838.345	-4.311	WB
1746	366948.616	3634821.777	-3.191	WB
1747	366945.214	3634803.715	-3.567	WB
1748	366940.866	3634784.862	-3.784	WB
1749	366934.992	3634765.373	-4.213	WB
1750	366928.534	3634747.516	-3.338	WB
1751	366922.076	3634732.892	-3.029	WB
1752	366916.126	3634713.022	-4.255	WB
1753	366912.191	3634691.809	-3.550	WB
1754	366909.703	3634674.822	-2.689	WB
1755	366905.148	3634654.200	-4.078	WB
1756	366900.980	3634639.834	-3.546	WB
1757	366896.958	3634624.717	-3.143	WB
1758	366891.754	3634607.815	-4.290	WB
1759	366887.118	3634593.784	-3.517	WB
1760	366882.159	3634578.705	-3.430	WB
1761	366877.311	3634560.878	-2.856	WB
1762	366873.143	3634546.426	-3.217	WB
1763	366869.130	3634533.003	-2.919	WB
1764	366865.044	3634520.897	-3.621	WB
1765	366861.169	3634511.906	-4.132	WB
1766	366490.880	3634592.345	1.610	CL RCKS
1767	366488.167	3634597.305	1.385	WES
1768	366488.441	3634601.806	-0.686	TOE RCKS
1769	366642.541	3635102.050	-1.153	WB
1770	366638.515	3635093.558	-2.879	WB
1771	366630.889	3635083.169	-3.926	WB
1772	366622.786	3635069.927	-3.982	WB
1773	366615.375	3635056.724	-3.303	WB
1774	366605.912	3635033.519	-3.979	WB
1775	366601.780	3635015.659	-4.117	WB
1776	366599.124	3634998.355	-3.976	WB
1777	366595.339	3634978.823	-3.954	WB
1778	366590.916	3634960.072	-3.978	WB
1779	366583.399	3634941.155	-3.846	WB
1780	366576.838	3634921.454	-4.001	WB
1781	366572.723	3634902.285	-4.142	WB
1782	366569.577	3634880.024	-4.140	WB
1783	366565.628	3634860.569	-3.552	WB
1784	366561.162	3634836.845	-4.228	WB
1785	366554.302	3634817.052	-4.217	WB
1786	366547.477	3634798.069	-4.462	WB
1787	366541.693	3634780.890	-4.789	WB

1788	366536.798	3634762.633	-4.836	WB
1789	366530.237	3634746.335	-4.376	WB
1790	366525.477	3634727.831	-5.090	WB
1791	366522.836	3634710.186	-5.112	WB
1792	366519.583	3634695.351	-4.955	WB
1793	366515.680	3634681.257	-4.878	WB
1794	366513.212	3634666.039	-4.851	WB
1795	366509.650	3634651.703	-4.776	WB
1796	366504.342	3634639.648	-4.679	WB
1797	366500.158	3634629.578	-3.650	WB
1798	366496.094	3634617.952	-3.953	WB
1799	366311.589	3635155.086	-4.093	WB
1800	366311.028	3635144.997	-4.470	WB
1801	366306.541	3635134.294	-4.301	WB
1802	366300.561	3635125.068	-4.354	WB
1803	366294.916	3635115.599	-4.251	WB
1804	366292.591	3635101.958	-4.218	WB
1805	366287.986	3635079.778	-3.597	WB
1806	366286.773	3635065.282	-4.238	WB
1807	366284.668	3635047.521	-4.053	WB
1808	366281.386	3635039.750	-2.110	WB
1809	366273.909	3635018.354	-4.143	WB
1810	366267.611	3635005.159	-4.315	WB
1811	366264.079	3634990.957	-4.224	WB
1812	366258.265	3634977.135	-3.753	WB
1813	366252.739	3634959.342	-4.212	WB
1814	366248.376	3634941.810	-4.428	WB
1815	366244.649	3634922.802	-4.464	WB
1816	366242.099	3634908.740	-4.172	WB
1817	366238.419	3634893.644	-4.523	WB
1818	366232.942	3634879.507	-4.561	WB
1819	366229.383	3634863.290	-4.432	WB
1820	366225.642	3634846.755	-4.423	WB
1821	366221.058	3634828.675	-4.949	WB
1822	366214.888	3634810.103	-5.195	WB
1823	366210.065	3634791.180	-5.258	WB
1824	366206.598	3634773.455	-5.647	WB
1825	366200.553	3634754.299	-5.570	WB
1826	366196.417	3634736.088	-5.116	WB
1827	366191.973	3634720.936	-5.105	WB
1828	366186.126	3634698.222	-2.038	WB
1829	366183.644	3634687.745	-1.836	CL FSHDP
1830	365838.149	3634721.255	0.787	CL RCKS
1831	365839.698	3634721.873	1.031	WES
1832	365837.011	3634727.214	-1.813	TOE RCKS
1833	365774.755	3635151.642	-6.637	WB
1834	365771.646	3635137.202	-6.801	WB
1835	365789.854	3635037.144	-5.082	WB
1836	365795.718	3635018.436	-1.526	WB
1837	365796.857	3635008.782	-4.727	WB
1838	365799.579	3635000.244	-4.520	WB
1839	365802.263	3634991.940	-4.291	WB
1840	365802.931	3634968.274	-5.147	WB
1841	365808.602	3634953.293	-5.260	WB
1842	365811.817	3634940.196	-4.864	WB
1843	365813.016	3634925.890	-5.033	WB
1844	365811.620	3634914.039	-4.888	WB
1845	365812.202	3634898.016	-4.999	WB
1846	365812.788	3634879.710	-5.518	WB
1847	365812.715	3634858.144	-4.633	WB
1848	365816.671	3634839.985	-5.038	WB
1849	365821.686	3634826.763	-4.718	WB
1850	365826.812	3634814.163	-4.820	WB
1851	365828.272	3634802.230	-4.757	WB
1852	365830.285	3634788.195	-4.560	WB
1853	365832.182	3634774.446	-4.865	WB

1854	365834.079	3634757.402	-3.940	WB
1855	365833.728	3634744.366	-4.169	WB
1856	365340.127	3634655.184	0.268	CL RCKS
1857	365336.824	3634657.826	0.980	WES
1858	365332.357	3634663.859	-2.164	TOE RCKS
1859	365334.925	3634652.634	0.662	CL RCKS
1860	365334.533	3634655.621	0.955	WS
1861	365333.142	3634658.890	-0.239	RCKS
1862	365332.466	3634662.981	-1.644	TOE RCKS
1863	364942.303	3634348.054	0.880	CL RCKS
1864	364941.381	3634348.826	0.851	WS
1865	364937.004	3634352.290	-0.894	RCKS
1866	364933.525	3634356.089	-2.232	TOE RCKS
1867	364878.748	3634424.587	-5.660	WB
1868	364886.117	3634419.596	-4.664	WB
1869	364890.685	3634411.448	-4.607	WB
1870	364898.671	3634405.449	-3.857	WB
1871	364907.682	3634398.759	-3.859	WB
1872	364912.588	3634391.600	-3.668	WB
1873	364918.081	3634381.591	-3.308	WB
1874	364922.676	3634374.502	-3.065	WB
1875	364926.127	3634367.941	-2.906	WB
1876	364928.343	3634363.245	-2.483	WB
1877	364553.476	3634045.360	1.417	CL RCKS
1878	364548.720	3634045.246	0.989	WES
1879	364543.834	3634047.169	-1.268	TOE RCKS
1880	364498.533	3634108.484	-0.389	WB
1881	364504.116	3634104.058	-4.079	WB
1882	364511.024	3634097.969	-2.746	WB
1883	364519.198	3634089.744	-3.368	WB
1884	364524.676	3634081.984	-2.514	WB
1885	364529.778	3634074.298	-2.371	WB
1886	364535.252	3634064.602	-2.496	WB
1887	364155.680	3633732.986	0.993	CL RCKS
1888	364153.019	3633734.651	0.988	WES
1889	364147.836	3633740.080	-0.584	TOE RCKS
1890	364090.947	3633796.290	-5.829	WB
1891	364098.107	3633792.882	-4.951	WB
1892	364107.190	3633790.305	-4.705	WB
1893	364138.300	3633759.914	-1.633	WB
1894	364140.899	3633756.688	-1.278	WB
1895	364143.484	3633751.535	-0.962	WB
1896	364145.804	3633747.206	-0.899	WB
1897	363767.324	3633420.990	1.312	CL RCKS
1898	363764.125	3633421.554	0.589	WES
1899	363761.267	3633422.986	-0.720	TOE RCKS
1900	363716.200	3633484.912	-5.479	WB
1901	363720.866	3633477.703	-4.515	WB
1902	363724.608	3633471.446	-4.074	WB
1903	363729.692	3633462.595	-3.567	WB
1904	363735.316	3633455.889	-3.260	WB
1905	363740.765	3633450.414	-2.753	WB
1906	363746.315	3633445.768	-2.384	WB
1907	363751.550	3633441.355	-1.877	WB
1908	363756.142	3633437.098	-1.548	WB
1909	363759.725	3633434.018	-1.252	WB
1910	363371.970	3633112.706	0.649	CL RCKS
1911	363369.955	3633113.369	0.722	WES
1912	363366.978	3633116.197	-0.902	TOE RCKS
1913	363312.899	3633176.986	-5.948	WB
1914	363317.996	3633170.592	-5.551	WB
1915	363324.736	3633166.374	-5.061	WB
1916	363330.311	3633163.702	-4.340	WB
1917	363335.279	3633160.614	-3.764	WB
1918	363340.210	3633156.594	-3.495	WB
1919	363343.404	3633152.253	-3.611	WB

1920	363346.053	3633147.121	-2.541	WB
1921	363350.641	3633141.608	-2.306	WB
1922	363355.364	3633136.812	-1.915	WB
1923	363360.785	3633132.039	-1.423	WB
1924	363364.078	3633127.053	-1.334	WB
1925	362971.011	3632828.816	0.719	CL RCKS
1926	362969.431	3632828.366	0.640	WES
1927	362965.876	3632828.686	-0.869	TOE RCKS
1928	362923.249	3632859.715	-5.527	WB
1929	362928.285	3632857.496	-4.890	WB
1930	362933.372	3632855.397	-4.175	WB
1931	362937.378	3632851.148	-3.344	WB
1932	362941.460	3632847.551	-2.977	WB
1933	362604.602	3632464.179	0.474	CL RCKS
1934	362603.722	3632467.152	0.703	WS
1935	362603.026	3632469.516	-0.450	TOE RCKS
1936	362550.973	3632533.828	-3.989	WB
1937	362552.109	3632528.874	-3.959	WB
1938	362558.594	3632522.458	-3.562	WB
1939	362567.567	3632515.466	-2.681	WB
1940	362575.779	3632507.721	-2.108	WB
1941	362580.876	3632502.366	-2.012	WB
1942	362585.417	3632495.325	-1.210	WB
1943	362589.847	3632488.647	-1.813	WB
1944	362594.996	3632480.676	-1.348	WB
1945	362598.234	3632474.582	-0.797	WB
1946	362217.219	3632151.298	0.500	CL RCKS
1947	362215.030	3632153.839	0.789	WS
1948	362211.197	3632154.596	-0.488	TOE RCKS
1949	362156.770	3632223.326	-6.335	WB
1950	362160.413	3632218.167	-5.264	WB
1951	362164.595	3632212.933	-4.590	WB
1952	362176.302	3632196.571	-3.588	WB
1953	362181.167	3632190.302	-3.741	WB
1954	362187.799	3632182.395	-2.016	WB
1955	362192.726	3632177.765	-2.008	WB
1956	362197.417	3632173.357	-1.844	WB
1957	362202.960	3632167.478	-1.634	WB
1958	361816.039	3631835.428	0.332	CL RCKS
1959	361814.987	3631835.631	0.913	WS
1960	361813.983	3631839.125	-0.460	TOE RCKS
1961	361771.621	3631905.268	-7.689	WB
1962	361782.421	3631897.678	-3.165	WB
1963	361786.664	3631894.783	-3.380	WB
1964	361791.318	3631888.404	-3.042	WB
1965	361795.946	3631881.758	-3.470	WB
1966	361800.529	3631876.709	-2.791	WB
1967	361805.388	3631866.324	-1.960	WB
1968	361808.037	3631861.293	-1.772	WB
1969	361812.616	3631853.425	-1.224	WB
1970	361441.358	3631524.547	0.137	WES
1971	361392.800	3631586.887	-4.384	WB
1972	361396.036	3631580.251	-4.092	WB
1973	361401.493	3631573.809	-1.065	WB
1974	361402.856	3631568.638	-2.501	WB
1975	361405.679	3631564.503	-2.511	WB
1976	361408.476	3631559.407	-3.188	WB
1977	361412.143	3631552.161	-2.458	WB
1978	361415.605	3631547.860	-1.423	WB
1979	361418.786	3631543.002	-1.041	WB
1980	361420.866	3631539.285	-0.840	WB
1981	361423.928	3631534.460	-0.814	WB
1982	361425.858	3631529.736	-0.687	WB
1983	361428.934	3631527.036	-0.420	WB
1984	365309.193	3634639.085	1.054	CL RCKS
1985	365290.221	3634626.600	0.780	CL RCKS

1986	365267.406	3634607.402	1.402	CL RCKS
1987	365245.131	3634587.787	1.146	CL RCKS
1988	365222.577	3634570.778	1.255	CL RCKS
1989	365201.167	3634556.915	0.362	CL RCKS
1990	365181.976	3634539.386	0.998	CL RCKS
1991	365159.505	3634519.743	0.725	CL RCKS
1992	365139.563	3634504.271	0.907	CL RCKS
1993	365125.654	3634491.265	0.888	CL RCKS
1994	365108.633	3634477.965	0.897	CL RCKS
1995	365091.576	3634463.188	1.122	CL RCKS
1996	365073.877	3634450.402	1.059	CL RCKS
1997	365058.692	3634439.234	1.082	CL RCKS
1998	365043.945	3634427.199	0.917	CL RCKS
1999	365029.244	3634416.520	1.099	CL RCKS
2000	365014.887	3634404.839	0.884	CL RCKS
2001	365001.025	3634394.305	0.899	CL RCKS
2002	364980.734	3634379.711	0.845	CL RCKS
2003	364964.484	3634366.466	0.955	CL RCKS
2004	364947.841	3634351.663	0.657	CL RCKS
2005	364928.475	3634337.368	0.486	CL RCKS
2006	364910.479	3634324.607	0.619	CL RCKS
2007	364898.858	3634315.365	0.821	CL RCKS
2008	364881.674	3634303.515	0.823	CL RCKS
2009	364869.812	3634294.748	0.790	CL RCKS
2010	364858.253	3634285.019	0.934	CL RCKS
2011	364843.648	3634272.705	0.963	CL RCKS
2012	364832.146	3634263.140	0.884	CL RCKS
2013	364820.986	3634253.690	0.582	CL RCKS
2014	364810.734	3634245.078	0.713	CL RCKS
2015	364800.307	3634236.466	0.777	CL RCKS
2016	364789.165	3634229.010	0.821	CL RCKS
2017	364779.566	3634221.007	0.811	CL RCKS
2018	364769.983	3634213.842	0.789	CL RCKS
2019	364759.726	3634206.060	0.863	CL RCKS
2020	364748.953	3634197.558	1.000	CL RCKS
2021	364740.349	3634190.777	0.968	CL RCKS
2022	364729.764	3634182.434	1.101	CL RCKS
2023	364719.081	3634175.374	1.025	CL RCKS
2024	364708.741	3634166.327	0.924	CL RCKS
2025	364698.208	3634157.236	1.101	CL RCKS
2026	364685.482	3634147.913	1.261	CL RCKS
2027	364672.598	3634138.055	1.556	CL RCKS
2028	364660.841	3634128.980	1.483	CL RCKS
2029	364648.815	3634119.742	1.077	CL RCKS
2030	364635.144	3634108.897	1.123	CL RCKS
2031	364622.350	3634098.739	1.268	CL RCKS
2032	364608.592	3634088.389	0.912	CL RCKS
2033	364594.309	3634077.898	1.477	CL RCKS
2034	364579.899	3634066.483	1.671	CL RCKS
2035	364566.644	3634056.376	1.265	CL RCKS
2036	364552.192	3634044.094	1.344	CL RCKS
2037	364538.864	3634033.199	1.410	CL RCKS
2038	364522.827	3634019.968	1.129	CL RCKS
2039	364508.406	3634008.797	0.982	CL RCKS
2040	364496.446	3633998.542	1.152	CL RCKS
2041	364481.451	3633987.703	1.720	CL RCKS
2042	364467.620	3633975.997	1.139	CL RCKS
2043	364452.892	3633963.307	1.310	CL RCKS
2044	364438.545	3633953.112	1.544	CL RCKS
2045	364424.036	3633941.486	1.403	CL RCKS
2046	364412.913	3633933.086	0.760	CL RCKS
2047	364402.160	3633922.586	1.041	CL RCKS
2048	364388.622	3633912.883	1.051	CL RCKS
2049	364376.293	3633903.083	0.828	CL RCKS
2050	364359.729	3633891.328	0.333	CL RCKS
2051	364340.429	3633874.544	0.803	CL RCKS

2052	364323.382	3633860.534	1.285	CL RCKS
2053	364306.267	3633848.359	1.288	CL RCKS
2054	364284.788	3633831.842	1.253	CL RCKS
2055	364272.823	3633821.612	1.211	CL RCKS
2056	364258.695	3633811.164	1.633	CL RCKS
2057	364244.692	3633800.042	1.457	CL RCKS
2058	364229.875	3633788.355	1.762	CL RCKS
2059	364213.157	3633776.787	1.308	CL RCKS
2060	364196.276	3633762.987	1.638	CL RCKS
2061	364181.750	3633750.565	1.606	CL RCKS
2062	364165.341	3633736.974	1.520	CL RCKS
2063	364150.629	3633722.730	1.317	CL RCKS
2064	364134.741	3633708.928	1.176	CL RCKS
2065	364117.232	3633695.424	1.290	CL RCKS
2066	364104.048	3633684.495	1.255	CL RCKS
2067	364087.896	3633670.623	1.482	CL RCKS
2068	364072.117	3633657.365	1.378	CL RCKS
2069	364058.264	3633647.017	0.738	CL RCKS
2070	364044.506	3633635.726	1.440	CL RCKS
2071	364028.093	3633624.938	0.765	CL RCKS
2072	364013.769	3633614.234	1.014	CL RCKS
2073	364000.457	3633604.359	1.207	CL RCKS
2074	363984.701	3633592.054	1.197	CL RCKS
2075	363970.231	3633581.960	1.035	CL RCKS
2076	363954.581	3633568.765	1.042	CL RCKS
2077	363938.329	3633556.874	1.064	CL RCKS
2078	363922.774	3633544.221	1.328	CL RCKS
2079	363908.626	3633532.354	1.178	CL RCKS
2080	363895.923	3633521.960	1.238	CL RCKS
2081	363879.904	3633509.694	1.193	CL RCKS
2082	363863.999	3633498.165	1.285	CL RCKS
2083	363848.653	3633486.345	1.179	CL RCKS
2084	363833.103	3633473.925	1.034	CL RCKS
2085	363817.065	3633461.908	0.888	CL RCKS
2086	363801.295	3633448.851	0.940	CL RCKS
2087	363789.689	3633438.194	0.891	CL RCKS
2088	363774.501	3633426.640	1.008	CL RCKS
2089	363758.970	3633414.183	1.022	CL RCKS
2090	363743.041	3633401.721	0.883	CL RCKS
2091	363721.806	3633384.027	0.544	CL RCKS
2092	363721.792	3633385.398	0.980	WS
2093	363702.992	3633369.839	0.962	WS
2094	363702.914	3633369.045	0.811	CL RCKS
2095	363686.738	3633356.336	0.597	CL RCKS
2096	363687.020	3633356.617	0.903	WS
2097	363670.232	3633343.624	0.925	WS
2098	363669.885	3633343.444	0.673	CL RCKS
2099	363653.172	3633330.021	0.409	CL RCKS
2100	363652.932	3633329.904	0.935	WS
2101	363632.637	3633313.648	0.865	WS
2102	363633.130	3633314.575	0.588	CL RCKS
2103	363618.343	3633302.395	0.548	CL RCKS
2104	363617.963	3633302.591	0.917	WS
2105	363598.199	3633288.092	0.866	WS
2106	363592.354	3633283.074	0.865	CL RCKS
2107	363577.423	3633270.619	0.815	CL RCKS
2108	363577.491	3633270.513	0.830	WS
2109	363564.979	3633261.190	0.804	CL RCKS
2110	363546.261	3633247.303	1.073	CL RCKS
2111	363530.928	3633234.761	0.977	CL RCKS
2112	363529.780	3633233.550	0.826	WS
2113	363515.122	3633222.388	1.089	CL RCKS
2114	363512.114	3633220.716	0.863	WS
2115	363505.773	3633216.057	0.927	WS
2116	363501.991	3633212.764	0.759	WS
2117	363496.535	3633208.046	0.961	CL RCKS

2118	363478.130	3633194.915	1.034	CL RCKS
2119	363463.053	3633182.345	1.233	CL RCKS
2120	363445.571	3633167.836	1.109	CL RCKS
2121	363433.284	3633158.560	1.019	CL RCKS
2122	363433.218	3633158.988	0.869	WS
2123	363419.017	3633147.294	1.102	CL RCKS
2124	363414.609	3633145.193	0.847	WS
2125	363408.889	3633140.987	0.920	WS
2126	363407.287	3633138.894	0.988	CL RCKS
2127	363406.684	3633138.569	0.875	WS
2128	363403.684	3633135.364	0.846	WS
2129	363395.708	3633129.759	0.986	CL RCKS
2130	363383.314	3633118.362	1.120	CL RCKS
2131	363375.031	3633113.077	1.131	CL RCKS
2132	363374.186	3633112.547	0.863	WS
2133	363368.795	3633108.562	0.849	WS
2134	363362.102	3633104.339	0.920	WS
2135	363360.681	3633102.811	1.142	CL RCKS
2136	363349.899	3633094.839	1.007	CL RCKS
2137	363337.592	3633084.198	1.317	CL RCKS
2138	363326.830	3633075.149	1.017	CL RCKS
2139	363316.838	3633067.967	1.045	CL RCKS
2140	363315.421	3633067.376	0.791	WS
2141	363309.073	3633062.189	0.779	WS
2142	363301.483	3633056.661	1.156	CL RCKS
2143	363290.912	3633048.882	1.422	CL RCKS
2144	363282.087	3633042.320	1.265	CL RCKS
2145	363274.953	3633036.552	1.220	CL RCKS
2146	363266.124	3633029.054	1.525	CL RCKS
2147	363256.763	3633022.007	1.118	CL RCKS
2148	363248.450	3633015.502	1.544	CL RCKS
2149	363239.927	3633007.624	1.795	CL RCKS
2150	363230.156	3633000.787	1.647	CL RCKS
2151	363221.017	3632994.588	1.248	CL RCKS
2152	363210.508	3632985.941	1.537	CL RCKS
2153	363199.834	3632976.903	0.960	CL RCKS
2154	363197.837	3632976.293	0.916	WS
2155	363194.145	3632973.037	0.904	WS
2156	363186.107	3632967.913	1.101	CL RCKS
2157	363183.865	3632966.744	0.841	WS
2158	363179.231	3632962.837	0.907	WS
2159	363172.683	3632956.508	0.858	WS
2160	363165.398	3632951.644	0.863	WS
2161	363157.274	3632945.296	0.846	WS
2162	363153.826	3632942.815	0.737	WS
2163	363146.215	3632937.950	0.935	WS
2164	363139.522	3632933.685	0.787	WS
2165	363131.159	3632933.762	0.856	WS
2166	363120.934	3632939.449	0.917	WS
2167	363115.926	3632941.186	0.848	WS
2168	363108.622	3632944.435	0.858	WS
2169	363104.241	3632945.443	1.083	CL RCKS
2170	363093.076	3632951.496	1.249	CL RCKS
2171	363083.891	3632953.671	1.415	CL RCKS
2172	363070.918	3632955.297	2.444	CL RCKS
2173	363060.079	3632948.110	1.989	CL RCKS
2174	363048.337	3632938.348	2.503	CL RCKS
2175	363034.254	3632925.362	2.210	CL RCKS
2176	363021.633	3632915.794	2.334	CL RCKS
2177	363010.421	3632906.778	2.147	CL RCKS
2178	362998.526	3632895.258	2.233	CL RCKS
2179	362985.033	3632884.470	2.324	CL RCKS
2180	362971.605	3632874.030	2.360	CL RCKS
2181	362962.424	3632860.555	2.475	CL RCKS
2182	362966.259	3632845.473	1.234	CL RCKS
2183	362971.129	3632834.801	1.001	CL RCKS

2184	362974.192	3632825.708	0.954	WS
2185	362976.300	3632817.797	0.958	WS/RCKS
2186	362980.888	3632808.536	0.903	WS/RCKS
2187	362985.359	3632797.201	0.887	WS/RCKS
2188	362990.298	3632784.219	0.910	WS/RCKS
2189	362997.011	3632770.974	0.843	WS/RCKS
2190	362985.238	3632763.529	0.961	CL RCKS
2191	362973.164	3632754.693	1.110	CL RCKS
2192	362961.921	3632745.066	1.043	CL RCKS
2193	362949.978	3632735.339	1.166	CL RCKS
2194	362938.036	3632726.552	1.153	CL RCKS
2195	362925.533	3632718.253	1.157	CL RCKS
2196	362914.543	3632707.031	1.297	CL RCKS
2197	362902.091	3632697.754	1.444	CL RCKS
2198	362888.880	3632687.680	1.360	CL RCKS
2199	362878.045	3632678.110	1.339	CL RCKS
2200	362866.555	3632669.026	1.608	CL RCKS
2201	362853.354	3632659.699	1.157	CL RCKS
2202	362839.808	3632646.460	1.199	CL RCKS
2203	362825.312	3632637.014	1.204	CL RCKS
2204	362811.895	3632627.251	1.060	CL RCKS
2205	362795.824	3632614.189	1.034	CL RCKS
2206	362780.949	3632601.894	0.922	CL RCKS
2207	362765.779	3632588.967	1.147	CL RCKS
2208	362755.470	3632579.326	0.851	CL RCKS
2209	362740.085	3632567.838	1.513	CL RCKS
2210	362721.860	3632554.363	1.266	CL RCKS
2211	362711.489	3632544.363	0.930	RCKS/WS
2212	362706.991	3632541.158	0.899	RCKS/WS
2213	362701.170	3632537.345	0.875	RCKS/WS
2214	362688.910	3632528.724	1.236	CL RCKS
2215	362672.784	3632517.512	0.969	CL RCKS
2216	362662.863	3632508.107	1.145	CL RCKS
2217	362647.411	3632496.574	1.487	CL RCKS
2218	362633.252	3632484.599	1.295	CL RCKS
2219	362620.008	3632473.631	0.833	CL RCKS
2220	362620.027	3632473.697	0.876	WS
2221	362606.760	3632459.569	0.801	WS
2222	362593.547	3632451.156	1.246	CL RCKS
2223	362582.951	3632442.534	1.150	CL RCKS
2224	362570.715	3632433.438	1.181	CL RCKS
2225	362560.048	3632426.573	1.478	CL RCKS
2226	362548.540	3632417.869	1.553	CL RCKS
2227	362537.258	3632407.998	1.147	CL RCKS
2228	362528.017	3632400.424	0.997	CL RCKS/WS
2229	362523.641	3632397.340	1.069	CL RCKS/WS
2230	362517.494	3632392.821	1.102	CL RCKS/WS
2231	362509.698	3632386.375	1.092	CL RCKS/WS
2232	362501.613	3632379.747	0.955	CL RCKS/WS
2233	362495.612	3632371.640	1.001	WS
2234	362488.492	3632366.163	1.238	WS
2235	362483.602	3632359.934	1.017	WS
2236	362477.787	3632355.088	0.989	WS
2237	362469.491	3632349.506	1.189	CL RCKS
2238	362460.515	3632344.162	1.354	CL RCKS
2239	362453.321	3632337.892	1.201	CL RCKS
2240	362445.606	3632331.011	1.153	CL RCKS
2241	362437.319	3632324.722	1.172	CL RCKS
2242	362430.092	3632319.070	1.235	CL RCKS
2243	362421.102	3632312.152	1.094	CL RCKS
2244	362417.761	3632309.779	1.048	WS/RCKS
2245	362412.961	3632307.027	0.990	WS/RCKS
2246	362407.654	3632302.363	1.043	WS/RCKS
2247	362401.500	3632298.034	0.994	WS/RCKS
2248	362394.263	3632292.308	1.034	WS/RCKS
2249	362387.193	3632285.245	1.021	WS/RCKS

2250	362379.863	3632279.904	0.996	WS/RCKS
2251	362370.797	3632271.642	1.029	WS/RCKS
2252	362363.050	3632265.669	0.992	WS/RCKS
2253	362356.696	3632261.499	1.515	CL RCKS
2254	362349.920	3632256.165	1.273	CL RCKS
2255	362342.708	3632250.493	1.382	CL RCKS
2256	362335.979	3632243.434	1.142	CL RCKS
2257	362327.885	3632237.359	1.005	CL RCKS/WS
2258	362316.639	3632227.900	1.372	CL RCKS/WS
2259	362305.808	3632222.801	0.979	CL RCKS/WS
2260	362300.413	3632216.671	0.928	CL RCKS/WS
2261	362292.080	3632207.778	0.987	CL RCKS/WS
2262	362282.008	3632201.298	1.009	CL RCKS/WS
2263	362268.758	3632189.348	1.127	CL RCKS/WS
2264	362254.468	3632176.084	1.026	CL RCKS/WS
2265	362247.501	3632169.185	1.014	CL RCKS/WS
2266	362235.676	3632161.526	0.951	CL RCKS/WS
2267	362223.221	3632151.620	0.998	CL RCKS/WS
2268	362205.670	3632138.138	1.100	CL RCKS/WS
2269	362191.016	3632127.916	1.037	CL RCKS/WS
2270	362180.067	3632116.419	1.021	CL RCKS/WS
2271	362167.959	3632105.374	1.126	CL RCKS/WS
2272	362151.805	3632092.930	1.065	CL RCKS/WS
2273	362138.335	3632082.126	1.125	CL RCKS/WS
2274	362125.626	3632069.733	1.013	CL RCKS/WS
2275	362106.953	3632057.132	0.980	CL RCKS/WS
2276	362090.537	3632045.874	1.061	CL RCKS/WS
2277	362078.334	3632035.899	0.968	CL RCKS/WS
2278	362067.144	3632026.877	1.006	CL RCKS/WS
2279	362053.175	3632015.614	0.967	CL RCKS/WS
2280	362037.092	3632006.556	1.192	CL RCKS
2281	362027.443	3631999.732	1.114	CL RCKS
2282	362013.927	3631988.013	1.231	CL RCKS
2283	361998.045	3631974.184	1.186	CL RCKS
2284	361983.077	3631964.486	0.974	CL RCKS/WS
2285	361968.514	3631953.237	0.990	CL RCKS/WS
2286	361951.519	3631940.527	0.908	CL RCKS/WS
2287	361945.028	3631934.009	1.408	CL RCKS
2288	361931.457	3631923.865	1.445	CL RCKS
2289	361914.894	3631909.248	1.390	CL RCKS
2290	361899.832	3631898.345	1.251	CL RCKS
2291	361884.142	3631886.021	1.460	CL RCKS
2292	361874.279	3631878.616	1.104	CL RCKS
2293	361858.695	3631865.810	1.225	CL RCKS
2294	361853.848	3631860.267	1.057	CL RCKS
2295	361840.035	3631849.221	1.163	CL RCKS
2296	361830.328	3631842.747	1.081	CL RCKS
2297	361810.191	3631829.740	0.860	WS
2298	361794.426	3631816.436	0.922	WS
2299	361794.348	3631816.126	-0.407	CL RCKS
2300	361773.130	3631798.835	0.786	CL RCKS
2301	361767.744	3631791.447	1.321	CL RCKS
2302	361762.426	3631787.469	1.594	CL RCKS
2303	361756.831	3631782.742	1.533	CL RCKS
2304	361751.036	3631778.216	1.372	CL RCKS
2305	361744.495	3631773.132	1.528	CL RCKS
2306	361739.358	3631769.032	1.407	CL RCKS
2307	361732.683	3631763.449	1.258	CL RCKS
2308	361726.974	3631761.305	0.916	CL RCKS/WS
2309	361722.204	3631757.474	1.231	CL RCKS
2310	361717.091	3631753.580	1.266	CL RCKS
2311	361713.326	3631750.073	1.233	CL RCKS
2312	361708.761	3631746.293	1.306	CL RCKS
2313	361702.619	3631742.537	0.995	CL RCKS/WS

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## **SECTION G**

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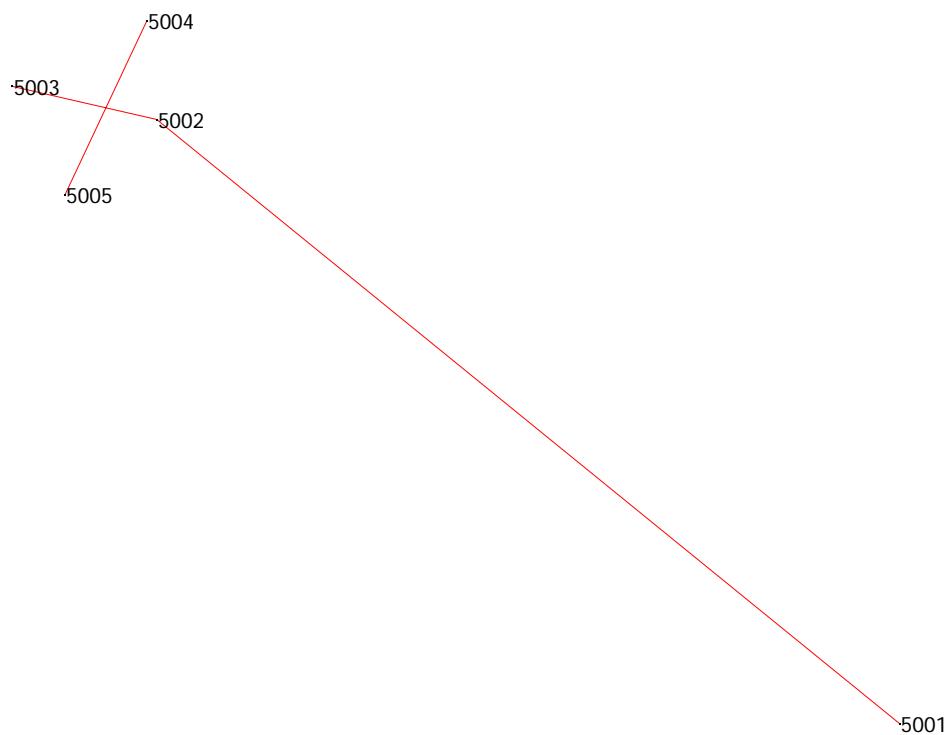
### **RTK Survey & Hydro Survey at Breaches**

Preplot Transects & Points Listing

Post-Survey Map

RTK Topo Points Listing

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 100 ft  
0 175.0 sft  
US survey feet

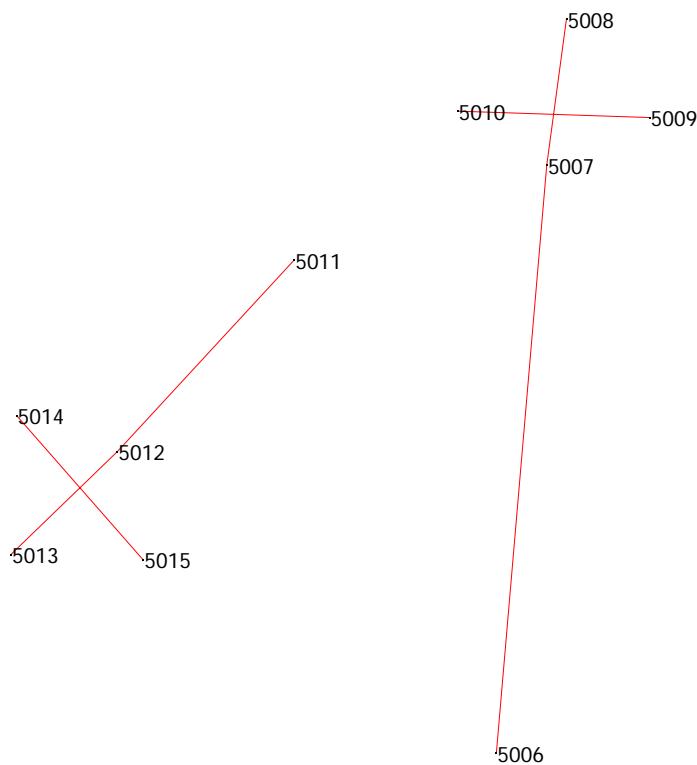


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Printed from Trimble Geomatics Office

Site: Not selected, System: US State Plane 1983  
Zone: Louisiana South 1702, Datum: NAD 1983 (Conus)  
Project: 100282\_Breaches  
USFeet Template

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 100 ft  
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US survey feet

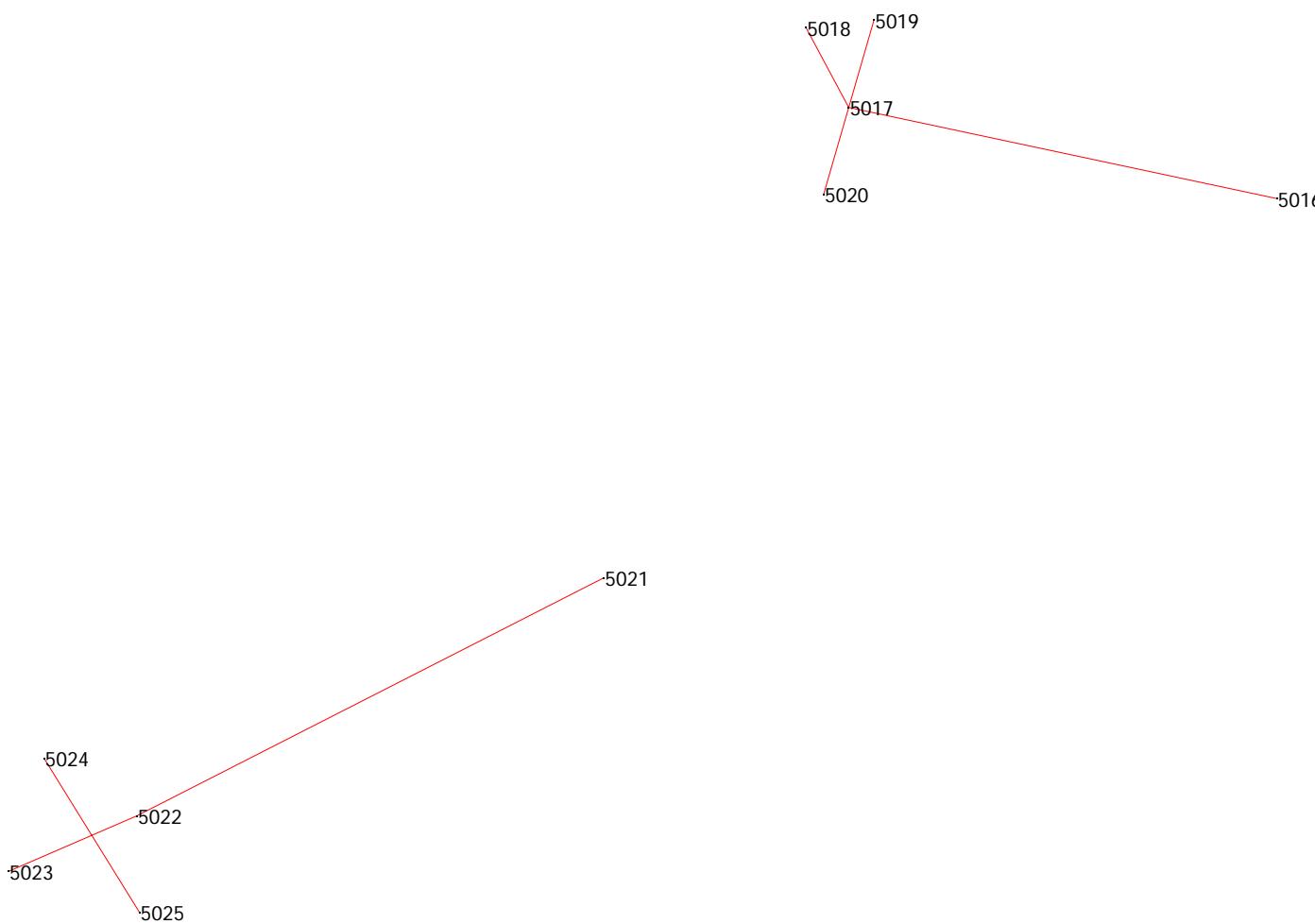


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Zone: Louisiana South 1702, Datum: NAD 1983 (Conus)  
Project: 100282\_Breaches  
USFeet Template

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 100 ft  
0 175.0 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 100 ft  
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Site: Not selected, System: US State Plane 1983  
Zone: Louisiana South 1702, Datum: NAD 1983 (Conus)  
Project: 100282\_Breaches  
USFeet Template

# Points

## ***Project : 100282\_Breaches***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	8:45:32 AM 8/10/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

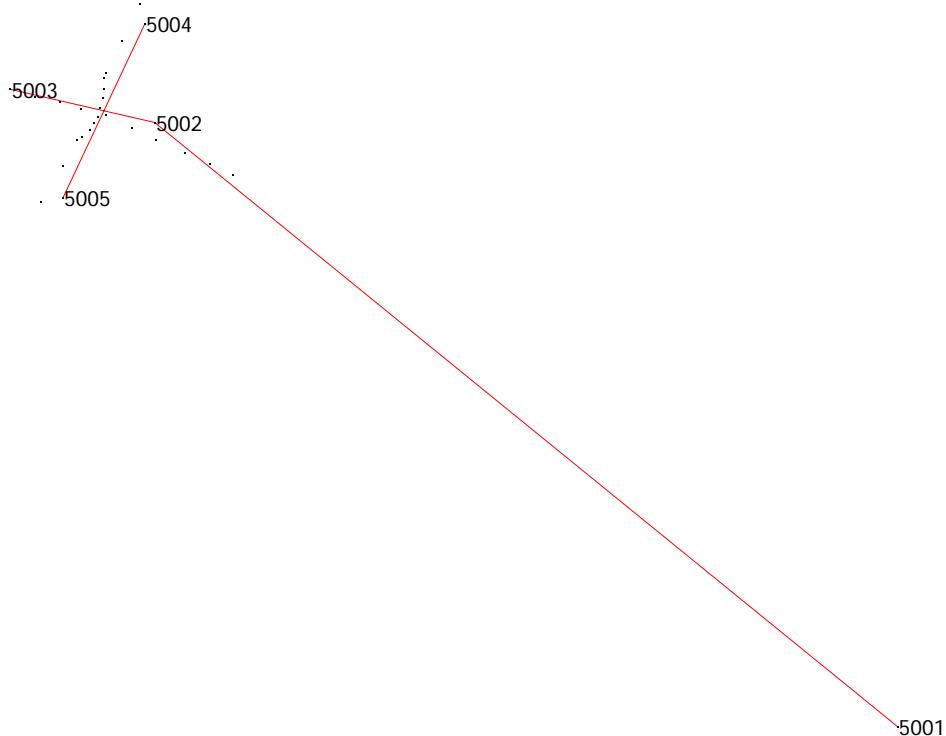
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### Point listing

Name	Northing	Easting	Elevation	Feature Code
5001	360591.290	3631485.370	0.000	Transects
5002	360905.950	3631098.470	0.000	Transects
5003	360923.250	3631023.290	0.000	Transects
5004	360957.280	3631093.320	0.000	Transects
5005	360866.800	3631050.730	0.000	Transects
5006	359827.090	3629782.550	0.000	Transects
5007	360133.450	3629808.840	0.000	Transects
5008	360209.410	3629819.080	0.000	Transects
5009	360158.210	3629862.380	0.000	Transects
5010	360161.510	3629762.430	0.000	Transects
5011	360083.990	3629677.240	0.000	Transects
5012	359984.220	3629585.160	0.000	Transects
5013	359930.600	3629529.700	0.000	Transects
5014	360002.950	3629532.690	0.000	Transects
5015	359927.760	3629598.610	0.000	Transects
5016	359613.560	3626540.950	0.000	Transects
5017	359663.800	3626304.880	0.000	Transects
5018	359707.870	3626281.260	0.000	Transects
5019	359711.830	3626318.770	0.000	Transects
5020	359615.760	3626290.980	0.000	Transects
5021	359404.490	3626169.910	0.000	Transects
5022	359273.300	3625912.410	0.000	Transects
5023	359242.640	3625841.620	0.000	Transects
5024	359305.020	3625861.170	0.000	Transects
5025	359220.010	3625913.840	0.000	Transects

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Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 100 ft  
0 175.0 sft  
US survey feet

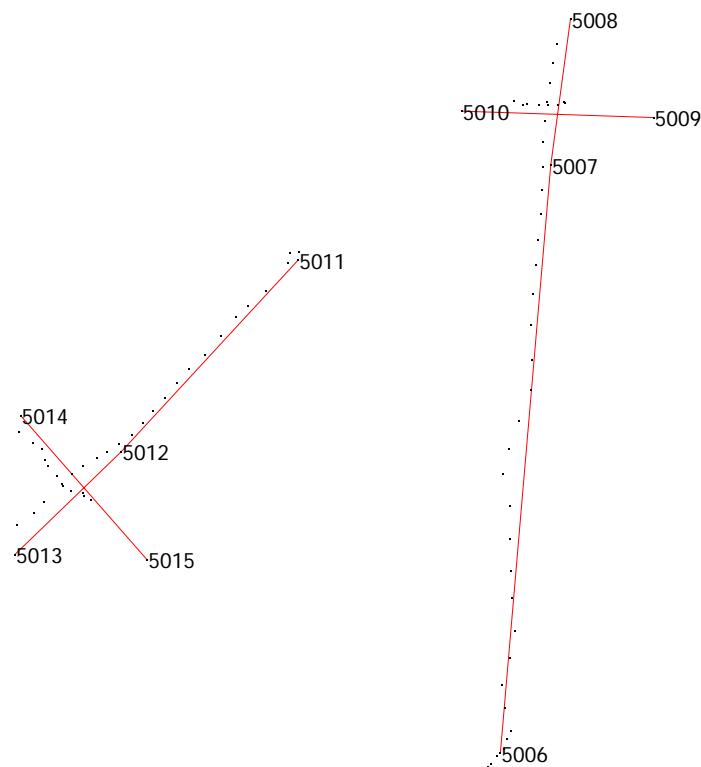


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Site: Not selected, System: US State Plane 1983  
Zone: Louisiana South 1702, Datum: NAD 1983 (Conus)  
Project: 100282\_Breaches  
USFeet Template

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 100 ft  
0 175.0 sft  
US survey feet

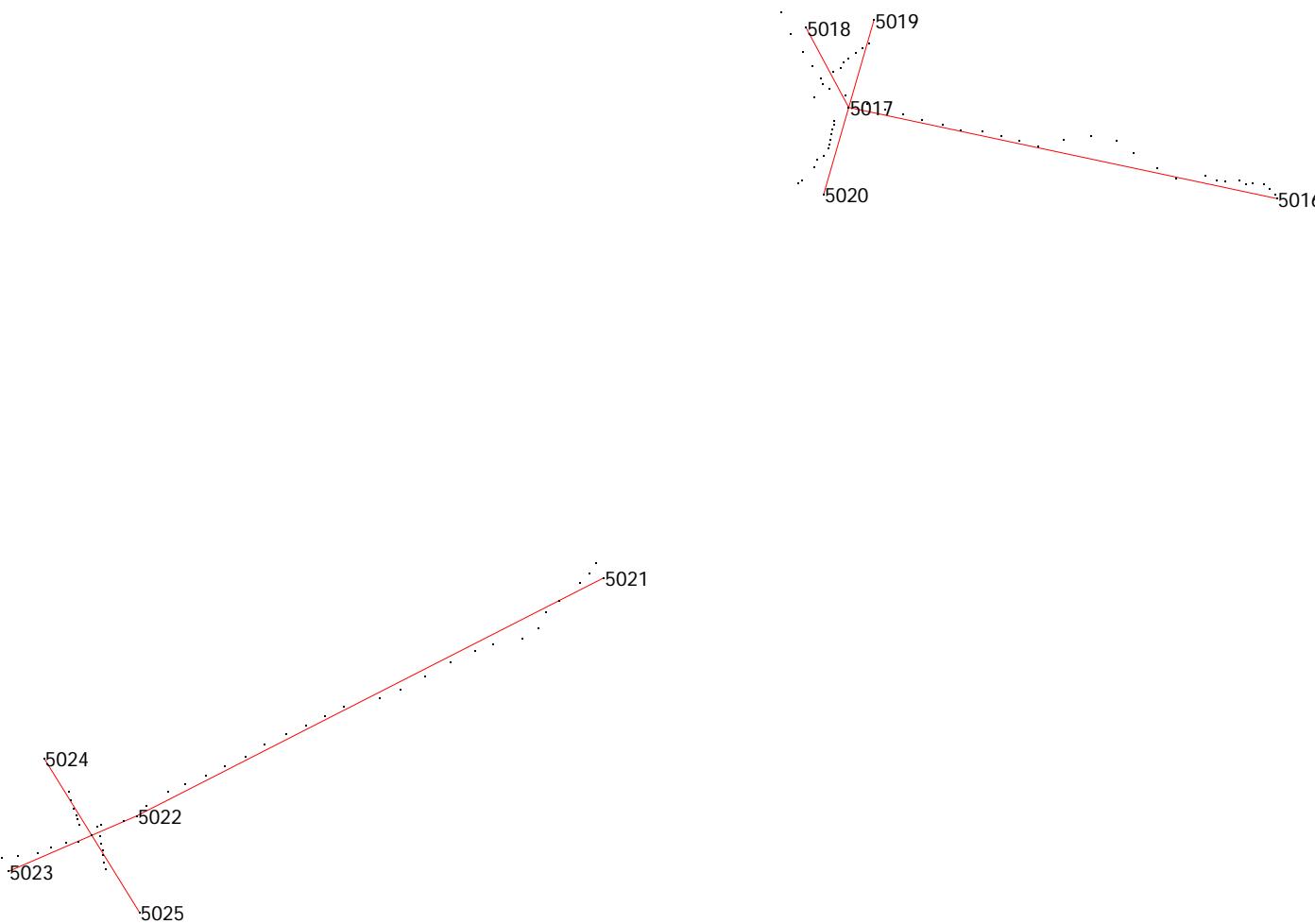


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Zone: Louisiana South 1702, Datum: NAD 1983 (Conus)  
Project: 100282\_Breaches  
USFeet Template

Field surveyor:  
Joey Devillier  
Computer operator:  
Ricardo Johnson  
Reference:  
GIWW to Clovelly



Scale 1" to 100 ft  
0 175.0 sft  
US survey feet



0°00'00"

Plot Scale: 1" to 100 ft  
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Printed from Trimble Geomatics Office

Site: Not selected, System: US State Plane 1983  
Zone: Louisiana South 1702, Datum: NAD 1983 (Conus)  
Project: 100282\_Breaches  
USFeet Template

# Points

## ***Project : 100282\_Breaches***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	8:41:08 AM 8/10/2010
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<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88 (2004.65)	<b>Geoid Model</b>	GEOID03 (2004.65)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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### Point listing

Name	Northing	Easting	Elevation	Feature	Code
3055	360878.812	3631138.991	-2.840		WB
3056	360884.516	3631127.210	-2.391		WB
3057	360890.089	3631113.956	-2.940		WB
3058	360897.146	3631099.323	-3.059		WB
3059	360903.308	3631086.472	-3.434		WB
3060	360909.892	3631073.010	-3.652		WB
3061	360913.179	3631059.999	-3.542		WB
3062	360916.833	3631048.985	-3.680		WB
3063	360919.284	3631036.198	-3.764		WB
3064	360923.605	3631023.120	-4.223		WB
3065	360927.773	3631012.276	-3.784		WB
3066	360932.605	3631004.908	-3.273		WB
3067	360936.528	3631000.602	-2.125		WB
3068	360939.328	3630997.375	1.106		WES
3069	360897.085	3631057.917	1.091		WES
3070	360898.472	3631060.587	-0.489		WB
3071	360902.140	3631064.970	-0.797		WB
3072	360905.540	3631066.551	-2.015		WB
3073	360908.773	3631068.922	-3.029		WB
3074	360913.617	3631069.779	-3.733		WB
3075	360918.536	3631071.591	-3.546		WB
3076	360923.224	3631071.985	-2.278		WB
3077	360929.268	3631072.137	-0.391		WB
3078	360931.533	3631072.823	1.079		WES
3079	360883.319	3631050.527	1.140		MSH
3080	360864.841	3631038.989	1.265		MSH
3081	360948.458	3631081.268	1.598		MSH
3082	360967.613	3631090.787	1.811		MSH
3083	360166.733	3629789.804	0.852		MSH
3084	360164.997	3629794.367	1.218		WES
3085	360165.347	3629796.639	-2.119		WB
3086	360164.726	3629802.417	-2.983		WB
3087	360164.494	3629807.365	-1.790		WB
3088	360164.739	3629812.671	-1.954		WB
3089	360165.896	3629816.314	0.076		WB
3090	360166.342	3629815.538	0.955		WS/TREES
3091	359819.759	3629776.041	1.163		WS/TREES
3092	359821.784	3629777.796	0.025		WB
3093	359825.710	3629780.897	-0.241		WB
3094	359829.414	3629784.337	-0.575		WB
3095	359834.416	3629785.705	-0.966		WB
3096	359838.863	3629788.163	-1.558		WB
3097	359850.723	3629785.150	-2.142		WB
3098	359862.826	3629783.405	-3.321		WB
3099	359876.718	3629787.712	-3.735		WB

3100	359891.071	3629789.918	-4.039	WB
3101	359907.924	3629788.395	-4.232	WB
3102	359922.325	3629787.926	-4.690	WB
3103	359938.757	3629787.313	-4.197	WB
3104	359956.067	3629787.336	-3.655	WB
3105	359972.525	3629783.888	-3.436	WB
3106	359985.684	3629787.035	-3.122	WB
3107	360000.429	3629792.087	-3.021	WB
3108	360016.435	3629798.393	-3.062	WB
3109	360032.180	3629798.895	-2.899	WB
3110	360049.964	3629798.674	-2.887	WB
3111	360066.303	3629799.475	-2.450	WB
3112	360081.505	3629801.117	-2.213	WB
3113	360094.423	3629802.282	-1.702	WB
3114	360108.210	3629803.630	-1.887	WB
3115	360120.678	3629804.222	-1.589	WB
3116	360132.701	3629804.758	-1.659	WB
3117	360145.666	3629805.010	-1.847	WB
3118	360156.380	3629805.579	-2.163	WB
3119	360166.470	3629806.668	-3.472	WB
3120	360176.106	3629808.126	-3.727	WB
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3122	360196.475	3629811.792	1.143	WES
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3125	360082.644	3629671.987	-0.788	WB
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3127	360060.036	3629651.156	-3.605	WB
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3129	360044.571	3629637.098	-5.438	WB
3130	360034.409	3629628.529	-5.210	WB
3131	360027.351	3629620.521	-4.161	WB
3132	360019.892	3629613.956	-4.056	WB
3133	360012.092	3629607.903	-3.307	WB
3134	360005.203	3629601.607	-1.466	WB
3135	359999.158	3629596.387	-1.421	WB
3136	359993.066	3629590.887	-1.277	WB
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3138	359984.323	3629577.909	-0.836	WB
3139	359980.720	3629572.338	-1.835	WB
3140	359976.754	3629565.134	-4.079	WB
3141	359972.713	3629559.455	-4.157	WB
3142	359966.076	3629554.771	-4.057	WB
3143	359958.055	3629545.044	-3.985	WB
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3148	359985.849	3629543.779	0.920	MSH
3149	359979.827	3629545.291	1.040	WES
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3151	359971.610	3629551.393	-4.239	WB
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3153	359963.528	3629558.966	-2.726	WB
3154	359988.523	3629539.231	0.927	MSH
3155	359994.598	3629531.882	1.172	MSH
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3157	359960.985	3629565.885	1.077	WES
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3161	359621.691	3626533.693	-0.621	WB
3162	359622.107	3626527.656	-0.982	WB
3163	359621.530	3626523.892	-0.853	WB
3164	359623.510	3626520.032	-1.287	WB
3165	359623.121	3626512.515	-1.041	WB

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3188	359694.534	3626279.343	-5.283	WB
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3191	359698.838	3626315.994	1.155	MSH
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3193	359694.087	3626308.907	-0.559	WB
3194	359690.945	3626304.469	-1.476	WB
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3196	359685.417	3626300.170	-2.117	WB
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3203	359649.055	3626295.159	-3.874	WB
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3239	359258.989	3625880.342	-2.140	WB
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3243	359251.047	3625846.915	-1.862	WB
3244	359249.913	3625837.996	-2.639	WB
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3252	359268.419	3625880.568	-2.235	WB
3253	359271.580	3625879.731	-1.684	WB
3254	359273.495	3625878.811	-1.123	WB
3255	359277.388	3625877.298	1.098	WES
3256	359281.780	3625875.769	1.066	MSH
3257	359286.385	3625874.864	0.486	MSH

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## **SECTION H**

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**Multibeam Survey at  
Structure 14A, Lake Rim & Breton Canal**

# Points

## ***Project : 100282\_Str\_14A\_rev***

<b>User name</b>	rmj	<b>Date &amp; Time</b>	12:56:30 PM 8/9/2010
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Louisiana South 1702
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAVD88	<b>Geoid Model</b>	GEOID03 (Revised)
<b>Coordinate Units</b>	US survey feet		
<b>Distance Units</b>	US survey feet		
<b>Height Units</b>	US survey feet		

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**Point listing**

Name	Northing	Easting	Elevation	Feature	Code
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80205	385195.000	3636685.000	-5.880	MB
80206	385195.000	3636695.000	-5.840	MB
80207	385195.000	3636705.000	-5.810	MB
80208	385195.000	3636715.000	-5.900	MB
80209	385195.000	3636725.000	-5.790	MB
80210	385195.000	3636735.000	-5.820	MB
80211	385195.000	3636745.000	-5.740	MB
80212	385195.000	3636755.000	-5.710	MB
80213	385195.000	3636765.000	-5.800	MB
80214	385195.000	3636775.000	-5.600	MB
80215	385195.000	3636785.000	-5.580	MB
80216	385195.000	3636795.000	-5.660	MB
80217	385195.000	3636805.000	-5.640	MB
80218	385195.000	3636815.000	-5.620	MB
80219	385195.000	3636825.000	-5.640	MB
80220	385195.000	3636835.000	-5.680	MB
80221	385195.000	3636845.000	-5.700	MB
80222	385195.000	3636855.000	-5.660	MB
80223	385195.000	3636865.000	-5.780	MB
80224	385195.000	3636875.000	-5.810	MB
80225	385195.000	3636885.000	-5.840	MB
80226	385195.000	3636895.000	-5.840	MB
80227	385195.000	3636905.000	-5.880	MB
80228	385195.000	3636915.000	-5.910	MB
80229	385195.000	3636925.000	-5.910	MB
80230	385195.000	3636935.000	-5.910	MB
80231	385195.000	3636945.000	-5.870	MB
80232	385185.000	3636015.000	-5.410	MB
80233	385185.000	3636025.000	-5.140	MB
80234	385185.000	3636035.000	-5.240	MB
80235	385185.000	3636045.000	-5.320	MB
80236	385185.000	3636055.000	-5.330	MB
80237	385185.000	3636065.000	-5.510	MB
80238	385185.000	3636075.000	-5.540	MB
80239	385185.000	3636085.000	-5.570	MB
80240	385185.000	3636095.000	-5.620	MB
80241	385185.000	3636105.000	-5.770	MB
80242	385185.000	3636115.000	-5.750	MB
80243	385185.000	3636125.000	-5.880	MB

80244	385185.000	3636135.000	-5.870	MB
80245	385185.000	3636145.000	-5.960	MB
80246	385185.000	3636155.000	-6.190	MB
80247	385185.000	3636165.000	-6.000	MB
80248	385185.000	3636175.000	-6.320	MB
80249	385185.000	3636185.000	-6.560	MB
80250	385185.000	3636195.000	-7.140	MB
80251	385185.000	3636205.000	-7.440	MB
80252	385185.000	3636215.000	-7.640	MB
80253	385185.000	3636225.000	-7.650	MB
80254	385185.000	3636235.000	-7.670	MB
80255	385185.000	3636245.000	-7.580	MB
80256	385185.000	3636255.000	-7.700	MB
80257	385185.000	3636265.000	-7.830	MB
80258	385185.000	3636275.000	-7.990	MB
80259	385185.000	3636285.000	-8.160	MB
80260	385185.000	3636295.000	-8.380	MB
80261	385185.000	3636305.000	-8.510	MB
80262	385185.000	3636315.000	-8.600	MB
80263	385185.000	3636325.000	-8.520	MB
80264	385185.000	3636335.000	-8.480	MB
80265	385185.000	3636345.000	-8.440	MB
80266	385185.000	3636355.000	-8.410	MB
80267	385185.000	3636365.000	-8.230	MB
80268	385185.000	3636375.000	-7.640	MB
80269	385185.000	3636385.000	-7.270	MB
80270	385185.000	3636395.000	-6.930	MB
80271	385185.000	3636405.000	-6.750	MB
80272	385185.000	3636415.000	-6.640	MB
80273	385185.000	3636425.000	-6.430	MB
80274	385185.000	3636435.000	-6.230	MB
80275	385185.000	3636445.000	-6.070	MB
80276	385185.000	3636455.000	-5.960	MB
80277	385185.000	3636465.000	-5.890	MB
80278	385185.000	3636475.000	-5.840	MB
80279	385185.000	3636485.000	-5.760	MB
80280	385185.000	3636495.000	-5.680	MB
80281	385185.000	3636505.000	-5.630	MB
80282	385185.000	3636515.000	-5.490	MB
80283	385185.000	3636525.000	-5.440	MB
80284	385185.000	3636535.000	-5.410	MB
80285	385185.000	3636545.000	-5.420	MB
80286	385185.000	3636555.000	-5.430	MB
80287	385185.000	3636565.000	-5.500	MB
80288	385185.000	3636575.000	-5.490	MB
80289	385185.000	3636585.000	-5.540	MB
80290	385185.000	3636595.000	-5.570	MB
80291	385185.000	3636605.000	-5.700	MB
80292	385185.000	3636615.000	-5.950	MB
80293	385185.000	3636625.000	-5.980	MB
80294	385185.000	3636635.000	-6.020	MB
80295	385185.000	3636645.000	-6.010	MB
80296	385185.000	3636655.000	-5.970	MB
80297	385185.000	3636665.000	-5.980	MB
80298	385185.000	3636675.000	-5.930	MB
80299	385185.000	3636685.000	-5.980	MB
80300	385185.000	3636695.000	-5.960	MB
80301	385185.000	3636705.000	-5.920	MB
80302	385185.000	3636715.000	-5.940	MB
80303	385185.000	3636725.000	-5.920	MB
80304	385185.000	3636735.000	-5.910	MB
80305	385185.000	3636745.000	-5.800	MB
80306	385185.000	3636755.000	-5.850	MB
80307	385185.000	3636765.000	-5.930	MB
80308	385185.000	3636775.000	-5.850	MB
80309	385185.000	3636785.000	-5.780	MB

80310	385185.000	3636795.000	-5.790	MB
80311	385185.000	3636805.000	-5.800	MB
80312	385185.000	3636815.000	-5.730	MB
80313	385185.000	3636825.000	-5.770	MB
80314	385185.000	3636835.000	-5.830	MB
80315	385185.000	3636845.000	-5.780	MB
80316	385185.000	3636855.000	-5.810	MB
80317	385185.000	3636865.000	-5.890	MB
80318	385185.000	3636875.000	-5.940	MB
80319	385185.000	3636885.000	-5.950	MB
80320	385185.000	3636895.000	-5.980	MB
80321	385185.000	3636905.000	-6.030	MB
80322	385185.000	3636915.000	-6.060	MB
80323	385185.000	3636925.000	-6.040	MB
80324	385185.000	3636935.000	-6.030	MB
80325	385185.000	3636945.000	-6.030	MB
80326	385185.000	3636955.000	-5.950	MB
80327	385175.000	3635775.000	-5.890	MB
80328	385175.000	3635785.000	-6.350	MB
80329	385175.000	3635795.000	-7.250	MB
80330	385175.000	3635805.000	-6.360	MB
80331	385175.000	3635815.000	-6.210	MB
80332	385175.000	3635825.000	-5.960	MB
80333	385175.000	3635835.000	-5.850	MB
80334	385175.000	3635845.000	-5.620	MB
80335	385175.000	3635855.000	-5.500	MB
80336	385175.000	3635865.000	-5.450	MB
80337	385175.000	3635875.000	-5.410	MB
80338	385175.000	3635885.000	-5.770	MB
80339	385175.000	3635895.000	-5.910	MB
80340	385175.000	3635905.000	-6.210	MB
80341	385175.000	3635915.000	-5.730	MB
80342	385175.000	3635925.000	-5.780	MB
80343	385175.000	3635935.000	-5.740	MB
80344	385175.000	3635945.000	-5.580	MB
80345	385175.000	3635955.000	-5.790	MB
80346	385175.000	3635965.000	-5.690	MB
80347	385175.000	3635975.000	-5.760	MB
80348	385175.000	3635985.000	-5.820	MB
80349	385175.000	3635995.000	-5.700	MB
80350	385175.000	3636005.000	-5.480	MB
80351	385175.000	3636015.000	-5.640	MB
80352	385175.000	3636025.000	-5.580	MB
80353	385175.000	3636035.000	-5.710	MB
80354	385175.000	3636045.000	-5.780	MB
80355	385175.000	3636055.000	-5.780	MB
80356	385175.000	3636065.000	-5.780	MB
80357	385175.000	3636075.000	-6.210	MB
80358	385175.000	3636085.000	-6.290	MB
80359	385175.000	3636095.000	-6.370	MB
80360	385175.000	3636105.000	-6.550	MB
80361	385175.000	3636115.000	-6.550	MB
80362	385175.000	3636125.000	-6.570	MB
80363	385175.000	3636135.000	-6.000	MB
80364	385175.000	3636145.000	-6.110	MB
80365	385175.000	3636155.000	-6.540	MB
80366	385175.000	3636165.000	-6.440	MB
80367	385175.000	3636175.000	-6.470	MB
80368	385175.000	3636185.000	-6.360	MB
80369	385175.000	3636195.000	-6.580	MB
80370	385175.000	3636205.000	-6.820	MB
80371	385175.000	3636215.000	-7.120	MB
80372	385175.000	3636225.000	-7.230	MB
80373	385175.000	3636235.000	-6.750	MB
80374	385175.000	3636245.000	-6.540	MB
80375	385175.000	3636255.000	-6.880	MB

80376	385175.000	3636265.000	-6.990	MB
80377	385175.000	3636275.000	-7.520	MB
80378	385175.000	3636285.000	-7.790	MB
80379	385175.000	3636295.000	-7.760	MB
80380	385175.000	3636305.000	-8.470	MB
80381	385175.000	3636315.000	-7.970	MB
80382	385175.000	3636325.000	-8.260	MB
80383	385175.000	3636335.000	-7.940	MB
80384	385175.000	3636345.000	-7.830	MB
80385	385175.000	3636355.000	-8.160	MB
80386	385175.000	3636365.000	-8.380	MB
80387	385175.000	3636375.000	-7.630	MB
80388	385175.000	3636385.000	-7.340	MB
80389	385175.000	3636395.000	-7.030	MB
80390	385175.000	3636405.000	-6.710	MB
80391	385175.000	3636415.000	-6.510	MB
80392	385175.000	3636425.000	-6.380	MB
80393	385175.000	3636435.000	-6.320	MB
80394	385175.000	3636445.000	-6.230	MB
80395	385175.000	3636455.000	-6.230	MB
80396	385175.000	3636465.000	-6.160	MB
80397	385175.000	3636475.000	-6.090	MB
80398	385175.000	3636485.000	-5.920	MB
80399	385175.000	3636495.000	-5.820	MB
80400	385175.000	3636505.000	-5.660	MB
80401	385175.000	3636515.000	-5.610	MB
80402	385175.000	3636525.000	-5.540	MB
80403	385175.000	3636535.000	-5.540	MB
80404	385175.000	3636545.000	-5.560	MB
80405	385175.000	3636555.000	-5.610	MB
80406	385175.000	3636565.000	-5.600	MB
80407	385175.000	3636575.000	-5.570	MB
80408	385175.000	3636585.000	-5.510	MB
80409	385175.000	3636595.000	-5.510	MB
80410	385175.000	3636605.000	-5.640	MB
80411	385175.000	3636615.000	-5.870	MB
80412	385175.000	3636625.000	-6.090	MB
80413	385175.000	3636635.000	-6.180	MB
80414	385175.000	3636645.000	-6.190	MB
80415	385175.000	3636655.000	-6.160	MB
80416	385175.000	3636665.000	-6.140	MB
80417	385175.000	3636675.000	-6.060	MB
80418	385175.000	3636685.000	-6.130	MB
80419	385175.000	3636695.000	-6.080	MB
80420	385175.000	3636705.000	-6.070	MB
80421	385175.000	3636715.000	-6.070	MB
80422	385175.000	3636725.000	-6.030	MB
80423	385175.000	3636735.000	-6.000	MB
80424	385175.000	3636745.000	-5.980	MB
80425	385175.000	3636755.000	-5.960	MB
80426	385175.000	3636765.000	-6.050	MB
80427	385175.000	3636775.000	-5.980	MB
80428	385175.000	3636785.000	-5.980	MB
80429	385175.000	3636795.000	-6.030	MB
80430	385175.000	3636805.000	-5.830	MB
80431	385175.000	3636815.000	-5.860	MB
80432	385175.000	3636825.000	-5.930	MB
80433	385175.000	3636835.000	-6.000	MB
80434	385175.000	3636845.000	-5.910	MB
80435	385175.000	3636855.000	-6.020	MB
80436	385175.000	3636865.000	-5.990	MB
80437	385175.000	3636875.000	-6.050	MB
80438	385175.000	3636885.000	-6.050	MB
80439	385175.000	3636895.000	-6.100	MB
80440	385175.000	3636905.000	-6.140	MB
80441	385175.000	3636915.000	-6.160	MB

80442	385175.000	3636925.000	-6.140	MB
80443	385175.000	3636935.000	-6.160	MB
80444	385175.000	3636945.000	-6.160	MB
80445	385175.000	3636955.000	-6.140	MB
80446	385165.000	3635155.000	-5.380	MB
80447	385165.000	3635165.000	-5.540	MB
80448	385165.000	3635175.000	-5.900	MB
80449	385165.000	3635185.000	-5.480	MB
80450	385165.000	3635195.000	-5.510	MB
80451	385165.000	3635205.000	-5.570	MB
80452	385165.000	3635215.000	-5.660	MB
80453	385165.000	3635225.000	-5.310	MB
80454	385165.000	3635235.000	-5.230	MB
80455	385165.000	3635245.000	-8.400	MB
80456	385165.000	3635255.000	-6.880	MB
80457	385165.000	3635265.000	-6.460	MB
80458	385165.000	3635275.000	-6.690	MB
80459	385165.000	3635285.000	-6.470	MB
80460	385165.000	3635295.000	-6.860	MB
80461	385165.000	3635305.000	-6.880	MB
80462	385165.000	3635315.000	-7.080	MB
80463	385165.000	3635325.000	-9.260	MB
80464	385165.000	3635335.000	-7.170	MB
80465	385165.000	3635345.000	-7.230	MB
80466	385165.000	3635355.000	-7.210	MB
80467	385165.000	3635365.000	-7.300	MB
80468	385165.000	3635375.000	-7.290	MB
80469	385165.000	3635385.000	-7.400	MB
80470	385165.000	3635395.000	-7.410	MB
80471	385165.000	3635405.000	-7.470	MB
80472	385165.000	3635415.000	-9.430	MB
80473	385165.000	3635425.000	-7.500	MB
80474	385165.000	3635435.000	-7.480	MB
80475	385165.000	3635445.000	-7.320	MB
80476	385165.000	3635455.000	-7.380	MB
80477	385165.000	3635465.000	-7.080	MB
80478	385165.000	3635475.000	-7.290	MB
80479	385165.000	3635485.000	-6.990	MB
80480	385165.000	3635495.000	-7.340	MB
80481	385165.000	3635505.000	-6.510	MB
80482	385165.000	3635515.000	-5.480	MB
80483	385165.000	3635525.000	-5.530	MB
80484	385165.000	3635535.000	-5.580	MB
80485	385165.000	3635545.000	-6.190	MB
80486	385165.000	3635555.000	-5.500	MB
80487	385165.000	3635565.000	-5.240	MB
80488	385165.000	3635575.000	-5.570	MB
80489	385165.000	3635585.000	-6.190	MB
80490	385165.000	3635595.000	-6.160	MB
80491	385165.000	3635605.000	-6.200	MB
80492	385165.000	3635615.000	-6.290	MB
80493	385165.000	3635625.000	-6.340	MB
80494	385165.000	3635635.000	-6.320	MB
80495	385165.000	3635645.000	-6.320	MB
80496	385165.000	3635655.000	-6.240	MB
80497	385165.000	3635665.000	-6.160	MB
80498	385165.000	3635675.000	-6.230	MB
80499	385165.000	3635685.000	-6.220	MB
80500	385165.000	3635695.000	-6.340	MB
80501	385165.000	3635705.000	-6.430	MB
80502	385165.000	3635715.000	-6.470	MB
80503	385165.000	3635725.000	-6.560	MB
80504	385165.000	3635735.000	-6.670	MB
80505	385165.000	3635745.000	-6.760	MB
80506	385165.000	3635755.000	-6.940	MB
80507	385165.000	3635765.000	-6.840	MB

80508	385165.000	3635775.000	-6.000	MB
80509	385165.000	3635785.000	-6.300	MB
80510	385165.000	3635795.000	-6.900	MB
80511	385165.000	3635805.000	-6.980	MB
80512	385165.000	3635815.000	-6.850	MB
80513	385165.000	3635825.000	-6.710	MB
80514	385165.000	3635835.000	-6.610	MB
80515	385165.000	3635845.000	-6.520	MB
80516	385165.000	3635855.000	-6.390	MB
80517	385165.000	3635865.000	-6.320	MB
80518	385165.000	3635875.000	-5.190	MB
80519	385165.000	3635885.000	-5.500	MB
80520	385165.000	3635895.000	-6.380	MB
80521	385165.000	3635905.000	-6.440	MB
80522	385165.000	3635915.000	-6.370	MB
80523	385165.000	3635925.000	-6.310	MB
80524	385165.000	3635935.000	-6.280	MB
80525	385165.000	3635945.000	-6.300	MB
80526	385165.000	3635955.000	-6.420	MB
80527	385165.000	3635965.000	-5.640	MB
80528	385165.000	3635975.000	-5.680	MB
80529	385165.000	3635985.000	-5.880	MB
80530	385165.000	3635995.000	-5.900	MB
80531	385165.000	3636005.000	-5.980	MB
80532	385165.000	3636015.000	-6.200	MB
80533	385165.000	3636025.000	-6.580	MB
80534	385165.000	3636035.000	-6.740	MB
80535	385165.000	3636045.000	-6.940	MB
80536	385165.000	3636055.000	-6.980	MB
80537	385165.000	3636065.000	-6.980	MB
80538	385165.000	3636075.000	-7.160	MB
80539	385165.000	3636085.000	-7.260	MB
80540	385165.000	3636095.000	-7.380	MB
80541	385165.000	3636105.000	-7.530	MB
80542	385165.000	3636115.000	-7.560	MB
80543	385165.000	3636125.000	-7.580	MB
80544	385165.000	3636135.000	-7.510	MB
80545	385165.000	3636145.000	-7.670	MB
80546	385165.000	3636155.000	-7.580	MB
80547	385165.000	3636165.000	-7.580	MB
80548	385165.000	3636175.000	-7.610	MB
80549	385165.000	3636185.000	-7.610	MB
80550	385165.000	3636195.000	-7.620	MB
80551	385165.000	3636205.000	-7.710	MB
80552	385165.000	3636215.000	-7.720	MB
80553	385165.000	3636225.000	-7.930	MB
80554	385165.000	3636235.000	-7.480	MB
80555	385165.000	3636245.000	-7.500	MB
80556	385165.000	3636255.000	-7.580	MB
80557	385165.000	3636265.000	-7.620	MB
80558	385165.000	3636275.000	-7.920	MB
80559	385165.000	3636285.000	-8.180	MB
80560	385165.000	3636295.000	-8.570	MB
80561	385165.000	3636305.000	-8.890	MB
80562	385165.000	3636315.000	-8.800	MB
80563	385165.000	3636325.000	-8.410	MB
80564	385165.000	3636335.000	-8.240	MB
80565	385165.000	3636345.000	-7.970	MB
80566	385165.000	3636355.000	-7.990	MB
80567	385165.000	3636365.000	-8.090	MB
80568	385165.000	3636375.000	-7.930	MB
80569	385165.000	3636385.000	-7.540	MB
80570	385165.000	3636395.000	-7.370	MB
80571	385165.000	3636405.000	-6.900	MB
80572	385165.000	3636415.000	-6.800	MB
80573	385165.000	3636425.000	-6.620	MB

80574	385165.000	3636435.000	-6.600	MB
80575	385165.000	3636445.000	-6.550	MB
80576	385165.000	3636455.000	-6.560	MB
80577	385165.000	3636465.000	-6.480	MB
80578	385165.000	3636475.000	-6.420	MB
80579	385165.000	3636485.000	-6.190	MB
80580	385165.000	3636495.000	-5.990	MB
80581	385165.000	3636505.000	-5.880	MB
80582	385165.000	3636515.000	-5.810	MB
80583	385165.000	3636525.000	-5.860	MB
80584	385165.000	3636535.000	-5.880	MB
80585	385165.000	3636545.000	-5.740	MB
80586	385165.000	3636555.000	-5.730	MB
80587	385165.000	3636565.000	-5.660	MB
80588	385165.000	3636575.000	-5.650	MB
80589	385165.000	3636585.000	-5.580	MB
80590	385165.000	3636595.000	-5.580	MB
80591	385165.000	3636605.000	-5.750	MB
80592	385165.000	3636615.000	-5.980	MB
80593	385165.000	3636625.000	-6.260	MB
80594	385165.000	3636635.000	-6.440	MB
80595	385165.000	3636645.000	-6.420	MB
80596	385165.000	3636655.000	-6.360	MB
80597	385165.000	3636665.000	-6.280	MB
80598	385165.000	3636675.000	-6.220	MB
80599	385165.000	3636685.000	-6.320	MB
80600	385165.000	3636695.000	-6.330	MB
80601	385165.000	3636705.000	-6.290	MB
80602	385165.000	3636715.000	-6.290	MB
80603	385165.000	3636725.000	-6.260	MB
80604	385165.000	3636735.000	-6.210	MB
80605	385165.000	3636745.000	-6.140	MB
80606	385165.000	3636755.000	-6.150	MB
80607	385165.000	3636765.000	-6.190	MB
80608	385165.000	3636775.000	-6.200	MB
80609	385165.000	3636785.000	-6.300	MB
80610	385165.000	3636795.000	-6.300	MB
80611	385165.000	3636805.000	-6.070	MB
80612	385165.000	3636815.000	-6.020	MB
80613	385165.000	3636825.000	-6.080	MB
80614	385165.000	3636835.000	-6.050	MB
80615	385165.000	3636845.000	-6.050	MB
80616	385165.000	3636855.000	-6.110	MB
80617	385165.000	3636865.000	-6.150	MB
80618	385165.000	3636875.000	-6.170	MB
80619	385165.000	3636885.000	-6.210	MB
80620	385165.000	3636895.000	-6.290	MB
80621	385165.000	3636905.000	-6.320	MB
80622	385165.000	3636915.000	-6.290	MB
80623	385165.000	3636925.000	-6.330	MB
80624	385165.000	3636935.000	-6.340	MB
80625	385165.000	3636945.000	-6.290	MB
80626	385165.000	3636955.000	-6.380	MB
80627	385155.000	3634975.000	-6.280	MB
80628	385155.000	3634985.000	-6.010	MB
80629	385155.000	3634995.000	-6.570	MB
80630	385155.000	3635005.000	-6.120	MB
80631	385155.000	3635015.000	-6.100	MB
80632	385155.000	3635025.000	-5.860	MB
80633	385155.000	3635035.000	-5.750	MB
80634	385155.000	3635045.000	-5.880	MB
80635	385155.000	3635055.000	-6.020	MB
80636	385155.000	3635065.000	-6.130	MB
80637	385155.000	3635075.000	-6.310	MB
80638	385155.000	3635085.000	-6.450	MB
80639	385155.000	3635095.000	-5.950	MB

80640	385155.000	3635105.000	-5.400	MB
80641	385155.000	3635115.000	-5.510	MB
80642	385155.000	3635125.000	-5.160	MB
80643	385155.000	3635135.000	-5.560	MB
80644	385155.000	3635145.000	-5.920	MB
80645	385155.000	3635155.000	-6.450	MB
80646	385155.000	3635165.000	-6.880	MB
80647	385155.000	3635175.000	-7.020	MB
80648	385155.000	3635185.000	-7.050	MB
80649	385155.000	3635195.000	-7.050	MB
80650	385155.000	3635205.000	-7.130	MB
80651	385155.000	3635215.000	-6.890	MB
80652	385155.000	3635225.000	-6.480	MB
80653	385155.000	3635235.000	-6.130	MB
80654	385155.000	3635245.000	-6.280	MB
80655	385155.000	3635255.000	-5.960	MB
80656	385155.000	3635265.000	-5.740	MB
80657	385155.000	3635275.000	-5.850	MB
80658	385155.000	3635285.000	-5.670	MB
80659	385155.000	3635295.000	-5.760	MB
80660	385155.000	3635305.000	-5.800	MB
80661	385155.000	3635315.000	-5.780	MB
80662	385155.000	3635325.000	-5.680	MB
80663	385155.000	3635335.000	-5.800	MB
80664	385155.000	3635345.000	-5.790	MB
80665	385155.000	3635355.000	-5.790	MB
80666	385155.000	3635365.000	-5.810	MB
80667	385155.000	3635375.000	-5.960	MB
80668	385155.000	3635385.000	-5.900	MB
80669	385155.000	3635395.000	-6.170	MB
80670	385155.000	3635405.000	-6.100	MB
80671	385155.000	3635415.000	-6.180	MB
80672	385155.000	3635425.000	-6.240	MB
80673	385155.000	3635435.000	-6.260	MB
80674	385155.000	3635445.000	-6.110	MB
80675	385155.000	3635455.000	-6.400	MB
80676	385155.000	3635465.000	-6.260	MB
80677	385155.000	3635475.000	-6.390	MB
80678	385155.000	3635485.000	-6.260	MB
80679	385155.000	3635495.000	-6.400	MB
80680	385155.000	3635505.000	-6.350	MB
80681	385155.000	3635515.000	-6.260	MB
80682	385155.000	3635525.000	-6.540	MB
80683	385155.000	3635535.000	-6.660	MB
80684	385155.000	3635545.000	-6.780	MB
80685	385155.000	3635555.000	-6.720	MB
80686	385155.000	3635565.000	-6.710	MB
80687	385155.000	3635575.000	-6.610	MB
80688	385155.000	3635585.000	-6.680	MB
80689	385155.000	3635595.000	-6.670	MB
80690	385155.000	3635605.000	-6.680	MB
80691	385155.000	3635615.000	-6.760	MB
80692	385155.000	3635625.000	-6.680	MB
80693	385155.000	3635635.000	-6.890	MB
80694	385155.000	3635645.000	-6.660	MB
80695	385155.000	3635655.000	-6.790	MB
80696	385155.000	3635665.000	-6.660	MB
80697	385155.000	3635675.000	-6.760	MB
80698	385155.000	3635685.000	-6.840	MB
80699	385155.000	3635695.000	-7.050	MB
80700	385155.000	3635705.000	-7.080	MB
80701	385155.000	3635715.000	-7.120	MB
80702	385155.000	3635725.000	-7.100	MB
80703	385155.000	3635735.000	-7.300	MB
80704	385155.000	3635745.000	-7.420	MB
80705	385155.000	3635755.000	-7.620	MB

80706	385155.000	3635765.000	-7.820	MB
80707	385155.000	3635775.000	-7.860	MB
80708	385155.000	3635785.000	-7.880	MB
80709	385155.000	3635795.000	-7.970	MB
80710	385155.000	3635805.000	-8.030	MB
80711	385155.000	3635815.000	-8.210	MB
80712	385155.000	3635825.000	-8.120	MB
80713	385155.000	3635835.000	-8.160	MB
80714	385155.000	3635845.000	-8.060	MB
80715	385155.000	3635855.000	-7.820	MB
80716	385155.000	3635865.000	-7.710	MB
80717	385155.000	3635875.000	-7.660	MB
80718	385155.000	3635885.000	-7.510	MB
80719	385155.000	3635895.000	-7.450	MB
80720	385155.000	3635905.000	-7.410	MB
80721	385155.000	3635915.000	-7.390	MB
80722	385155.000	3635925.000	-7.070	MB
80723	385155.000	3635935.000	-7.200	MB
80724	385155.000	3635945.000	-7.380	MB
80725	385155.000	3635955.000	-7.540	MB
80726	385155.000	3635965.000	-7.360	MB
80727	385155.000	3635975.000	-7.620	MB
80728	385155.000	3635985.000	-7.670	MB
80729	385155.000	3635995.000	-7.800	MB
80730	385155.000	3636005.000	-7.970	MB
80731	385155.000	3636015.000	-8.080	MB
80732	385155.000	3636025.000	-8.160	MB
80733	385155.000	3636035.000	-8.300	MB
80734	385155.000	3636045.000	-8.370	MB
80735	385155.000	3636055.000	-8.440	MB
80736	385155.000	3636065.000	-8.620	MB
80737	385155.000	3636075.000	-8.700	MB
80738	385155.000	3636085.000	-8.570	MB
80739	385155.000	3636095.000	-8.690	MB
80740	385155.000	3636105.000	-8.810	MB
80741	385155.000	3636115.000	-8.890	MB
80742	385155.000	3636125.000	-8.940	MB
80743	385155.000	3636135.000	-9.020	MB
80744	385155.000	3636145.000	-8.960	MB
80745	385155.000	3636155.000	-9.130	MB
80746	385155.000	3636165.000	-9.340	MB
80747	385155.000	3636175.000	-9.490	MB
80748	385155.000	3636185.000	-9.540	MB
80749	385155.000	3636195.000	-9.190	MB
80750	385155.000	3636205.000	-9.210	MB
80751	385155.000	3636215.000	-9.100	MB
80752	385155.000	3636225.000	-9.260	MB
80753	385155.000	3636235.000	-9.980	MB
80754	385155.000	3636245.000	-9.860	MB
80755	385155.000	3636255.000	-9.790	MB
80756	385155.000	3636265.000	-9.250	MB
80757	385155.000	3636275.000	-9.220	MB
80758	385155.000	3636285.000	-9.190	MB
80759	385155.000	3636295.000	-9.550	MB
80760	385155.000	3636305.000	-9.880	MB
80761	385155.000	3636315.000	-10.410	MB
80762	385155.000	3636325.000	-10.080	MB
80763	385155.000	3636335.000	-9.660	MB
80764	385155.000	3636345.000	-8.620	MB
80765	385155.000	3636355.000	-8.540	MB
80766	385155.000	3636365.000	-8.640	MB
80767	385155.000	3636375.000	-8.460	MB
80768	385155.000	3636385.000	-8.050	MB
80769	385155.000	3636395.000	-7.960	MB
80770	385155.000	3636405.000	-7.320	MB
80771	385155.000	3636415.000	-7.140	MB

80772	385155.000	3636425.000	-7.020	MB
80773	385155.000	3636435.000	-7.050	MB
80774	385155.000	3636445.000	-6.890	MB
80775	385155.000	3636455.000	-6.870	MB
80776	385155.000	3636465.000	-6.870	MB
80777	385155.000	3636475.000	-6.940	MB
80778	385155.000	3636485.000	-6.480	MB
80779	385155.000	3636495.000	-6.120	MB
80780	385155.000	3636505.000	-6.030	MB
80781	385155.000	3636515.000	-6.110	MB
80782	385155.000	3636525.000	-6.310	MB
80783	385155.000	3636535.000	-6.330	MB
80784	385155.000	3636545.000	-6.260	MB
80785	385155.000	3636555.000	-6.130	MB
80786	385155.000	3636565.000	-6.040	MB
80787	385155.000	3636575.000	-5.930	MB
80788	385155.000	3636585.000	-5.850	MB
80789	385155.000	3636595.000	-5.820	MB
80790	385155.000	3636605.000	-6.000	MB
80791	385155.000	3636615.000	-6.310	MB
80792	385155.000	3636625.000	-6.580	MB
80793	385155.000	3636635.000	-6.760	MB
80794	385155.000	3636645.000	-6.750	MB
80795	385155.000	3636655.000	-6.700	MB
80796	385155.000	3636665.000	-6.640	MB
80797	385155.000	3636675.000	-6.590	MB
80798	385155.000	3636685.000	-6.660	MB
80799	385155.000	3636695.000	-6.680	MB
80800	385155.000	3636705.000	-6.700	MB
80801	385155.000	3636715.000	-6.640	MB
80802	385155.000	3636725.000	-6.530	MB
80803	385155.000	3636735.000	-6.420	MB
80804	385155.000	3636745.000	-6.400	MB
80805	385155.000	3636755.000	-6.340	MB
80806	385155.000	3636765.000	-6.380	MB
80807	385155.000	3636775.000	-6.400	MB
80808	385155.000	3636785.000	-6.460	MB
80809	385155.000	3636795.000	-6.510	MB
80810	385155.000	3636805.000	-6.350	MB
80811	385155.000	3636815.000	-6.250	MB
80812	385155.000	3636825.000	-6.240	MB
80813	385155.000	3636835.000	-6.220	MB
80814	385155.000	3636845.000	-6.230	MB
80815	385155.000	3636855.000	-6.280	MB
80816	385155.000	3636865.000	-6.330	MB
80817	385155.000	3636875.000	-6.330	MB
80818	385155.000	3636885.000	-6.340	MB
80819	385155.000	3636895.000	-6.420	MB
80820	385155.000	3636905.000	-6.470	MB
80821	385155.000	3636915.000	-6.440	MB
80822	385155.000	3636925.000	-6.480	MB
80823	385155.000	3636935.000	-6.520	MB
80824	385155.000	3636945.000	-6.460	MB
80825	385155.000	3636955.000	-6.520	MB
80826	385145.000	3634865.000	-4.990	MB
80827	385145.000	3634875.000	-5.020	MB
80828	385145.000	3634885.000	-5.310	MB
80829	385145.000	3634895.000	-5.260	MB
80830	385145.000	3634905.000	-5.390	MB
80831	385145.000	3634915.000	-5.440	MB
80832	385145.000	3634925.000	-5.460	MB
80833	385145.000	3634935.000	-5.580	MB
80834	385145.000	3634945.000	-5.640	MB
80835	385145.000	3634955.000	-5.790	MB
80836	385145.000	3634965.000	-6.020	MB
80837	385145.000	3634975.000	-5.990	MB

80838	385145.000	3634985.000	-6.200	MB
80839	385145.000	3634995.000	-6.570	MB
80840	385145.000	3635005.000	-6.230	MB
80841	385145.000	3635015.000	-5.950	MB
80842	385145.000	3635025.000	-6.290	MB
80843	385145.000	3635035.000	-6.040	MB
80844	385145.000	3635045.000	-6.230	MB
80845	385145.000	3635055.000	-6.630	MB
80846	385145.000	3635065.000	-6.840	MB
80847	385145.000	3635075.000	-6.760	MB
80848	385145.000	3635085.000	-7.060	MB
80849	385145.000	3635095.000	-7.280	MB
80850	385145.000	3635105.000	-7.520	MB
80851	385145.000	3635115.000	-7.450	MB
80852	385145.000	3635125.000	-7.080	MB
80853	385145.000	3635135.000	-7.120	MB
80854	385145.000	3635145.000	-7.490	MB
80855	385145.000	3635155.000	-7.900	MB
80856	385145.000	3635165.000	-7.930	MB
80857	385145.000	3635175.000	-8.020	MB
80858	385145.000	3635185.000	-8.040	MB
80859	385145.000	3635195.000	-7.880	MB
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80862	385145.000	3635225.000	-7.820	MB
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80865	385145.000	3635255.000	-7.540	MB
80866	385145.000	3635265.000	-7.640	MB
80867	385145.000	3635275.000	-7.720	MB
80868	385145.000	3635285.000	-7.730	MB
80869	385145.000	3635295.000	-7.700	MB
80870	385145.000	3635305.000	-7.560	MB
80871	385145.000	3635315.000	-7.630	MB
80872	385145.000	3635325.000	-7.820	MB
80873	385145.000	3635335.000	-8.090	MB
80874	385145.000	3635345.000	-8.050	MB
80875	385145.000	3635355.000	-8.030	MB
80876	385145.000	3635365.000	-8.010	MB
80877	385145.000	3635375.000	-8.080	MB
80878	385145.000	3635385.000	-8.200	MB
80879	385145.000	3635395.000	-8.300	MB
80880	385145.000	3635405.000	-8.280	MB
80881	385145.000	3635415.000	-8.220	MB
80882	385145.000	3635425.000	-8.280	MB
80883	385145.000	3635435.000	-8.580	MB
80884	385145.000	3635445.000	-8.500	MB
80885	385145.000	3635455.000	-8.520	MB
80886	385145.000	3635465.000	-8.590	MB
80887	385145.000	3635475.000	-8.640	MB
80888	385145.000	3635485.000	-8.710	MB
80889	385145.000	3635495.000	-8.700	MB
80890	385145.000	3635505.000	-8.710	MB
80891	385145.000	3635515.000	-8.690	MB
80892	385145.000	3635525.000	-8.740	MB
80893	385145.000	3635535.000	-8.860	MB
80894	385145.000	3635545.000	-8.790	MB
80895	385145.000	3635555.000	-8.800	MB
80896	385145.000	3635565.000	-8.860	MB
80897	385145.000	3635575.000	-8.910	MB
80898	385145.000	3635585.000	-8.920	MB
80899	385145.000	3635595.000	-8.850	MB
80900	385145.000	3635605.000	-8.610	MB
80901	385145.000	3635615.000	-8.990	MB
80902	385145.000	3635625.000	-9.130	MB
80903	385145.000	3635635.000	-9.020	MB

80904	385145.000	3635645.000	-8.800	MB
80905	385145.000	3635655.000	-9.040	MB
80906	385145.000	3635665.000	-9.020	MB
80907	385145.000	3635675.000	-9.180	MB
80908	385145.000	3635685.000	-9.200	MB
80909	385145.000	3635695.000	-9.170	MB
80910	385145.000	3635705.000	-9.190	MB
80911	385145.000	3635715.000	-9.360	MB
80912	385145.000	3635725.000	-9.550	MB
80913	385145.000	3635735.000	-9.850	MB
80914	385145.000	3635745.000	-9.690	MB
80915	385145.000	3635755.000	-9.610	MB
80916	385145.000	3635765.000	-9.550	MB
80917	385145.000	3635775.000	-9.460	MB
80918	385145.000	3635785.000	-9.540	MB
80919	385145.000	3635795.000	-9.760	MB
80920	385145.000	3635805.000	-9.780	MB
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80922	385145.000	3635825.000	-9.720	MB
80923	385145.000	3635835.000	-9.910	MB
80924	385145.000	3635845.000	-9.930	MB
80925	385145.000	3635855.000	-9.890	MB
80926	385145.000	3635865.000	-9.700	MB
80927	385145.000	3635875.000	-9.600	MB
80928	385145.000	3635885.000	-9.570	MB
80929	385145.000	3635895.000	-9.430	MB
80930	385145.000	3635905.000	-9.220	MB
80931	385145.000	3635915.000	-9.060	MB
80932	385145.000	3635925.000	-9.180	MB
80933	385145.000	3635935.000	-8.910	MB
80934	385145.000	3635945.000	-8.820	MB
80935	385145.000	3635955.000	-8.790	MB
80936	385145.000	3635965.000	-8.930	MB
80937	385145.000	3635975.000	-9.130	MB
80938	385145.000	3635985.000	-9.030	MB
80939	385145.000	3635995.000	-9.150	MB
80940	385145.000	3636005.000	-9.240	MB
80941	385145.000	3636015.000	-9.300	MB
80942	385145.000	3636025.000	-9.370	MB
80943	385145.000	3636035.000	-9.380	MB
80944	385145.000	3636045.000	-9.410	MB
80945	385145.000	3636055.000	-9.520	MB
80946	385145.000	3636065.000	-9.640	MB
80947	385145.000	3636075.000	-9.660	MB
80948	385145.000	3636085.000	-9.700	MB
80949	385145.000	3636095.000	-9.650	MB
80950	385145.000	3636105.000	-9.750	MB
80951	385145.000	3636115.000	-9.800	MB
80952	385145.000	3636125.000	-10.130	MB
80953	385145.000	3636135.000	-10.340	MB
80954	385145.000	3636145.000	-10.390	MB
80955	385145.000	3636155.000	-10.430	MB
80956	385145.000	3636165.000	-10.500	MB
80957	385145.000	3636175.000	-10.670	MB
80958	385145.000	3636185.000	-10.680	MB
80959	385145.000	3636195.000	-10.810	MB
80960	385145.000	3636205.000	-10.850	MB
80961	385145.000	3636215.000	-10.780	MB
80962	385145.000	3636225.000	-10.780	MB
80963	385145.000	3636235.000	-10.790	MB
80964	385145.000	3636245.000	-10.860	MB
80965	385145.000	3636255.000	-11.100	MB
80966	385145.000	3636265.000	-11.180	MB
80967	385145.000	3636275.000	-11.340	MB
80968	385145.000	3636285.000	-11.500	MB
80969	385145.000	3636295.000	-11.470	MB

80970	385145.000	3636305.000	-11.560	MB
80971	385145.000	3636315.000	-11.690	MB
80972	385145.000	3636325.000	-11.250	MB
80973	385145.000	3636335.000	-10.830	MB
80974	385145.000	3636345.000	-9.890	MB
80975	385145.000	3636355.000	-9.070	MB
80976	385145.000	3636365.000	-8.810	MB
80977	385145.000	3636375.000	-8.430	MB
80978	385145.000	3636385.000	-8.040	MB
80979	385145.000	3636395.000	-7.820	MB
80980	385145.000	3636405.000	-7.600	MB
80981	385145.000	3636415.000	-7.480	MB
80982	385145.000	3636425.000	-7.290	MB
80983	385145.000	3636435.000	-7.260	MB
80984	385145.000	3636445.000	-7.080	MB
80985	385145.000	3636455.000	-7.080	MB
80986	385145.000	3636465.000	-7.060	MB
80987	385145.000	3636475.000	-7.280	MB
80988	385145.000	3636485.000	-6.990	MB
80989	385145.000	3636495.000	-6.340	MB
80990	385145.000	3636505.000	-5.710	MB
80991	385145.000	3636515.000	-6.820	MB
80992	385145.000	3636525.000	-6.970	MB
80993	385145.000	3636535.000	-6.980	MB
80994	385145.000	3636545.000	-6.820	MB
80995	385145.000	3636555.000	-6.540	MB
80996	385145.000	3636565.000	-6.410	MB
80997	385145.000	3636575.000	-6.290	MB
80998	385145.000	3636585.000	-6.190	MB
80999	385145.000	3636595.000	-6.060	MB
81000	385145.000	3636605.000	-6.460	MB
81001	385145.000	3636615.000	-6.930	MB
81002	385145.000	3636625.000	-7.080	MB
81003	385145.000	3636635.000	-7.020	MB
81004	385145.000	3636645.000	-7.000	MB
81005	385145.000	3636655.000	-6.940	MB
81006	385145.000	3636665.000	-6.920	MB
81007	385145.000	3636675.000	-6.880	MB
81008	385145.000	3636685.000	-6.870	MB
81009	385145.000	3636695.000	-6.810	MB
81010	385145.000	3636705.000	-6.830	MB
81011	385145.000	3636715.000	-6.850	MB
81012	385145.000	3636725.000	-6.870	MB
81013	385145.000	3636735.000	-6.810	MB
81014	385145.000	3636745.000	-6.740	MB
81015	385145.000	3636755.000	-6.730	MB
81016	385145.000	3636765.000	-6.730	MB
81017	385145.000	3636775.000	-6.680	MB
81018	385145.000	3636785.000	-6.770	MB
81019	385145.000	3636795.000	-6.690	MB
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81022	385145.000	3636825.000	-6.420	MB
81023	385145.000	3636835.000	-6.400	MB
81024	385145.000	3636845.000	-6.390	MB
81025	385145.000	3636855.000	-6.450	MB
81026	385145.000	3636865.000	-6.480	MB
81027	385145.000	3636875.000	-6.510	MB
81028	385145.000	3636885.000	-6.550	MB
81029	385145.000	3636895.000	-6.610	MB
81030	385145.000	3636905.000	-6.660	MB
81031	385145.000	3636915.000	-6.690	MB
81032	385145.000	3636925.000	-6.670	MB
81033	385145.000	3636935.000	-6.670	MB
81034	385145.000	3636945.000	-6.680	MB
81035	385145.000	3636955.000	-6.720	MB

81036	385135.000	3634865.000	-6.400	MB
81037	385135.000	3634875.000	-6.490	MB
81038	385135.000	3634885.000	-6.580	MB
81039	385135.000	3634895.000	-6.770	MB
81040	385135.000	3634905.000	-6.830	MB
81041	385135.000	3634915.000	-6.960	MB
81042	385135.000	3634925.000	-6.950	MB
81043	385135.000	3634935.000	-7.060	MB
81044	385135.000	3634945.000	-7.240	MB
81045	385135.000	3634955.000	-7.360	MB
81046	385135.000	3634965.000	-7.360	MB
81047	385135.000	3634975.000	-7.580	MB
81048	385135.000	3634985.000	-8.090	MB
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81051	385135.000	3635015.000	-8.010	MB
81052	385135.000	3635025.000	-7.880	MB
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81054	385135.000	3635045.000	-8.060	MB
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81056	385135.000	3635065.000	-8.460	MB
81057	385135.000	3635075.000	-8.430	MB
81058	385135.000	3635085.000	-8.490	MB
81059	385135.000	3635095.000	-8.810	MB
81060	385135.000	3635105.000	-8.780	MB
81061	385135.000	3635115.000	-8.700	MB
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81063	385135.000	3635135.000	-8.540	MB
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81065	385135.000	3635155.000	-8.640	MB
81066	385135.000	3635165.000	-8.540	MB
81067	385135.000	3635175.000	-8.650	MB
81068	385135.000	3635185.000	-8.690	MB
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81078	385135.000	3635285.000	-9.200	MB
81079	385135.000	3635295.000	-9.230	MB
81080	385135.000	3635305.000	-9.290	MB
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81083	385135.000	3635335.000	-9.570	MB
81084	385135.000	3635345.000	-9.620	MB
81085	385135.000	3635355.000	-9.560	MB
81086	385135.000	3635365.000	-9.700	MB
81087	385135.000	3635375.000	-9.720	MB
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81089	385135.000	3635395.000	-9.800	MB
81090	385135.000	3635405.000	-9.950	MB
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81096	385135.000	3635465.000	-10.080	MB
81097	385135.000	3635475.000	-10.110	MB
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81099	385135.000	3635495.000	-10.230	MB
81100	385135.000	3635505.000	-10.340	MB
81101	385135.000	3635515.000	-10.490	MB

81102	385135.000	3635525.000	-10.490	MB
81103	385135.000	3635535.000	-10.370	MB
81104	385135.000	3635545.000	-10.470	MB
81105	385135.000	3635555.000	-10.500	MB
81106	385135.000	3635565.000	-10.460	MB
81107	385135.000	3635575.000	-10.460	MB
81108	385135.000	3635585.000	-10.460	MB
81109	385135.000	3635595.000	-10.570	MB
81110	385135.000	3635605.000	-10.570	MB
81111	385135.000	3635615.000	-10.600	MB
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81114	385135.000	3635645.000	-10.760	MB
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81120	385135.000	3635705.000	-10.870	MB
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81123	385135.000	3635735.000	-11.320	MB
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81127	385135.000	3635775.000	-10.620	MB
81128	385135.000	3635785.000	-10.720	MB
81129	385135.000	3635795.000	-10.840	MB
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81138	385135.000	3635885.000	-11.030	MB
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81142	385135.000	3635925.000	-10.710	MB
81143	385135.000	3635935.000	-10.610	MB
81144	385135.000	3635945.000	-10.490	MB
81145	385135.000	3635955.000	-10.570	MB
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81153	385135.000	3636035.000	-10.170	MB
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81156	385135.000	3636065.000	-10.150	MB
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81158	385135.000	3636085.000	-10.190	MB
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81160	385135.000	3636105.000	-10.180	MB
81161	385135.000	3636115.000	-10.220	MB
81162	385135.000	3636125.000	-10.310	MB
81163	385135.000	3636135.000	-10.450	MB
81164	385135.000	3636145.000	-10.650	MB
81165	385135.000	3636155.000	-10.760	MB
81166	385135.000	3636165.000	-10.870	MB
81167	385135.000	3636175.000	-11.130	MB

81168	385135.000	3636185.000	-11.310	MB
81169	385135.000	3636195.000	-11.430	MB
81170	385135.000	3636205.000	-11.390	MB
81171	385135.000	3636215.000	-11.430	MB
81172	385135.000	3636225.000	-11.270	MB
81173	385135.000	3636235.000	-11.320	MB
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81176	385135.000	3636265.000	-11.800	MB
81177	385135.000	3636275.000	-12.160	MB
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81231	385135.000	3636815.000	-6.710	MB
81232	385135.000	3636825.000	-6.750	MB
81233	385135.000	3636835.000	-6.760	MB

81234	385135.000	3636845.000	-6.750	MB
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81237	385135.000	3636875.000	-6.900	MB
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81251	385125.000	3634915.000	-8.300	MB
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81265	385125.000	3635055.000	-9.110	MB
81266	385125.000	3635065.000	-9.380	MB
81267	385125.000	3635075.000	-9.590	MB
81268	385125.000	3635085.000	-9.680	MB
81269	385125.000	3635095.000	-9.800	MB
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81274	385125.000	3635145.000	-9.500	MB
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81281	385125.000	3635215.000	-9.690	MB
81282	385125.000	3635225.000	-9.910	MB
81283	385125.000	3635235.000	-9.970	MB
81284	385125.000	3635245.000	-10.010	MB
81285	385125.000	3635255.000	-9.970	MB
81286	385125.000	3635265.000	-10.060	MB
81287	385125.000	3635275.000	-10.140	MB
81288	385125.000	3635285.000	-10.160	MB
81289	385125.000	3635295.000	-10.220	MB
81290	385125.000	3635305.000	-10.400	MB
81291	385125.000	3635315.000	-10.540	MB
81292	385125.000	3635325.000	-10.620	MB
81293	385125.000	3635335.000	-10.520	MB
81294	385125.000	3635345.000	-10.670	MB
81295	385125.000	3635355.000	-10.610	MB
81296	385125.000	3635365.000	-10.610	MB
81297	385125.000	3635375.000	-10.720	MB
81298	385125.000	3635385.000	-10.920	MB
81299	385125.000	3635395.000	-10.980	MB

81300	385125.000	3635405.000	-10.840	MB
81301	385125.000	3635415.000	-10.970	MB
81302	385125.000	3635425.000	-10.990	MB
81303	385125.000	3635435.000	-11.030	MB
81304	385125.000	3635445.000	-10.870	MB
81305	385125.000	3635455.000	-11.130	MB
81306	385125.000	3635465.000	-11.180	MB
81307	385125.000	3635475.000	-11.180	MB
81308	385125.000	3635485.000	-11.210	MB
81309	385125.000	3635495.000	-11.170	MB
81310	385125.000	3635505.000	-11.250	MB
81311	385125.000	3635515.000	-11.310	MB
81312	385125.000	3635525.000	-11.400	MB
81313	385125.000	3635535.000	-11.450	MB
81314	385125.000	3635545.000	-11.100	MB
81315	385125.000	3635555.000	-11.070	MB
81316	385125.000	3635565.000	-11.040	MB
81317	385125.000	3635575.000	-11.040	MB
81318	385125.000	3635585.000	-11.070	MB
81319	385125.000	3635595.000	-11.100	MB
81320	385125.000	3635605.000	-11.290	MB
81321	385125.000	3635615.000	-11.370	MB
81322	385125.000	3635625.000	-11.180	MB
81323	385125.000	3635635.000	-11.220	MB
81324	385125.000	3635645.000	-11.200	MB
81325	385125.000	3635655.000	-11.200	MB
81326	385125.000	3635665.000	-11.160	MB
81327	385125.000	3635675.000	-11.170	MB
81328	385125.000	3635685.000	-11.200	MB
81329	385125.000	3635695.000	-11.250	MB
81330	385125.000	3635705.000	-11.340	MB
81331	385125.000	3635715.000	-11.430	MB
81332	385125.000	3635725.000	-11.520	MB
81333	385125.000	3635735.000	-11.580	MB
81334	385125.000	3635745.000	-11.420	MB
81335	385125.000	3635755.000	-11.270	MB
81336	385125.000	3635765.000	-11.180	MB
81337	385125.000	3635775.000	-11.370	MB
81338	385125.000	3635785.000	-11.270	MB
81339	385125.000	3635795.000	-11.340	MB
81340	385125.000	3635805.000	-11.420	MB
81341	385125.000	3635815.000	-11.460	MB
81342	385125.000	3635825.000	-11.510	MB
81343	385125.000	3635835.000	-11.510	MB
81344	385125.000	3635845.000	-11.520	MB
81345	385125.000	3635855.000	-11.500	MB
81346	385125.000	3635865.000	-11.420	MB
81347	385125.000	3635875.000	-11.330	MB
81348	385125.000	3635885.000	-11.230	MB
81349	385125.000	3635895.000	-11.170	MB
81350	385125.000	3635905.000	-11.130	MB
81351	385125.000	3635915.000	-11.090	MB
81352	385125.000	3635925.000	-11.070	MB
81353	385125.000	3635935.000	-10.970	MB
81354	385125.000	3635945.000	-10.920	MB
81355	385125.000	3635955.000	-10.890	MB
81356	385125.000	3635965.000	-10.850	MB
81357	385125.000	3635975.000	-10.820	MB
81358	385125.000	3635985.000	-10.770	MB
81359	385125.000	3635995.000	-10.730	MB
81360	385125.000	3636005.000	-10.750	MB
81361	385125.000	3636015.000	-10.780	MB
81362	385125.000	3636025.000	-10.700	MB
81363	385125.000	3636035.000	-10.640	MB
81364	385125.000	3636045.000	-10.610	MB
81365	385125.000	3636055.000	-10.580	MB

81366	385125.000	3636065.000	-10.520	MB
81367	385125.000	3636075.000	-10.470	MB
81368	385125.000	3636085.000	-10.490	MB
81369	385125.000	3636095.000	-10.500	MB
81370	385125.000	3636105.000	-10.510	MB
81371	385125.000	3636115.000	-10.480	MB
81372	385125.000	3636125.000	-10.620	MB
81373	385125.000	3636135.000	-10.690	MB
81374	385125.000	3636145.000	-10.810	MB
81375	385125.000	3636155.000	-10.940	MB
81376	385125.000	3636165.000	-11.110	MB
81377	385125.000	3636175.000	-11.430	MB
81378	385125.000	3636185.000	-11.630	MB
81379	385125.000	3636195.000	-11.420	MB
81380	385125.000	3636205.000	-11.500	MB
81381	385125.000	3636215.000	-11.550	MB
81382	385125.000	3636225.000	-11.540	MB
81383	385125.000	3636235.000	-11.580	MB
81384	385125.000	3636245.000	-11.720	MB
81385	385125.000	3636255.000	-11.860	MB
81386	385125.000	3636265.000	-12.070	MB
81387	385125.000	3636275.000	-12.250	MB
81388	385125.000	3636285.000	-12.560	MB
81389	385125.000	3636295.000	-12.760	MB
81390	385125.000	3636305.000	-12.580	MB
81391	385125.000	3636315.000	-12.450	MB
81392	385125.000	3636325.000	-12.220	MB
81393	385125.000	3636335.000	-11.740	MB
81394	385125.000	3636345.000	-11.090	MB
81395	385125.000	3636355.000	-10.600	MB
81396	385125.000	3636365.000	-9.510	MB
81397	385125.000	3636375.000	-8.990	MB
81398	385125.000	3636385.000	-8.210	MB
81399	385125.000	3636395.000	-8.040	MB
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81411	385125.000	3636515.000	-9.340	MB
81412	385125.000	3636525.000	-10.040	MB
81413	385125.000	3636535.000	-11.130	MB
81414	385125.000	3636545.000	-11.790	MB
81415	385125.000	3636555.000	-10.640	MB
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81418	385125.000	3636585.000	-9.650	MB
81419	385125.000	3636595.000	-8.820	MB
81420	385125.000	3636605.000	-9.060	MB
81421	385125.000	3636615.000	-8.940	MB
81422	385125.000	3636625.000	-8.540	MB
81423	385125.000	3636635.000	-8.360	MB
81424	385125.000	3636645.000	-8.480	MB
81425	385125.000	3636655.000	-8.350	MB
81426	385125.000	3636665.000	-8.250	MB
81427	385125.000	3636675.000	-8.400	MB
81428	385125.000	3636685.000	-8.060	MB
81429	385125.000	3636695.000	-7.860	MB
81430	385125.000	3636705.000	-7.740	MB
81431	385125.000	3636715.000	-7.660	MB

81432	385125.000	3636725.000	-7.610	MB
81433	385125.000	3636735.000	-7.530	MB
81434	385125.000	3636745.000	-7.440	MB
81435	385125.000	3636755.000	-7.370	MB
81436	385125.000	3636765.000	-7.280	MB
81437	385125.000	3636775.000	-7.250	MB
81438	385125.000	3636785.000	-7.220	MB
81439	385125.000	3636795.000	-7.150	MB
81440	385125.000	3636805.000	-7.130	MB
81441	385125.000	3636815.000	-7.110	MB
81442	385125.000	3636825.000	-7.090	MB
81443	385125.000	3636835.000	-7.010	MB
81444	385125.000	3636845.000	-6.990	MB
81445	385125.000	3636855.000	-7.000	MB
81446	385125.000	3636865.000	-7.040	MB
81447	385125.000	3636875.000	-7.100	MB
81448	385125.000	3636885.000	-7.140	MB
81449	385125.000	3636895.000	-7.190	MB
81450	385125.000	3636905.000	-7.190	MB
81451	385125.000	3636915.000	-7.210	MB
81452	385125.000	3636925.000	-7.210	MB
81453	385125.000	3636935.000	-7.200	MB
81454	385125.000	3636945.000	-7.280	MB
81455	385125.000	3636955.000	-7.280	MB
81456	385115.000	3634875.000	-9.010	MB
81457	385115.000	3634885.000	-9.300	MB
81458	385115.000	3634895.000	-9.340	MB
81459	385115.000	3634905.000	-9.330	MB
81460	385115.000	3634915.000	-9.380	MB
81461	385115.000	3634925.000	-9.380	MB
81462	385115.000	3634935.000	-9.340	MB
81463	385115.000	3634945.000	-9.340	MB
81464	385115.000	3634955.000	-9.500	MB
81465	385115.000	3634965.000	-9.490	MB
81466	385115.000	3634975.000	-9.620	MB
81467	385115.000	3634985.000	-9.730	MB
81468	385115.000	3634995.000	-9.850	MB
81469	385115.000	3635005.000	-9.880	MB
81470	385115.000	3635015.000	-9.880	MB
81471	385115.000	3635025.000	-9.960	MB
81472	385115.000	3635035.000	-9.960	MB
81473	385115.000	3635045.000	-10.040	MB
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81475	385115.000	3635065.000	-10.260	MB
81476	385115.000	3635075.000	-10.600	MB
81477	385115.000	3635085.000	-10.770	MB
81478	385115.000	3635095.000	-10.650	MB
81479	385115.000	3635105.000	-10.570	MB
81480	385115.000	3635115.000	-10.360	MB
81481	385115.000	3635125.000	-10.270	MB
81482	385115.000	3635135.000	-10.330	MB
81483	385115.000	3635145.000	-10.360	MB
81484	385115.000	3635155.000	-10.150	MB
81485	385115.000	3635165.000	-10.440	MB
81486	385115.000	3635175.000	-10.220	MB
81487	385115.000	3635185.000	-10.360	MB
81488	385115.000	3635195.000	-10.300	MB
81489	385115.000	3635205.000	-10.300	MB
81490	385115.000	3635215.000	-10.560	MB
81491	385115.000	3635225.000	-10.750	MB
81492	385115.000	3635235.000	-10.840	MB
81493	385115.000	3635245.000	-11.010	MB
81494	385115.000	3635255.000	-11.040	MB
81495	385115.000	3635265.000	-11.010	MB
81496	385115.000	3635275.000	-11.060	MB
81497	385115.000	3635285.000	-11.060	MB

81498	385115.000	3635295.000	-11.030	MB
81499	385115.000	3635305.000	-11.180	MB
81500	385115.000	3635315.000	-11.280	MB
81501	385115.000	3635325.000	-11.280	MB
81502	385115.000	3635335.000	-11.340	MB
81503	385115.000	3635345.000	-11.190	MB
81504	385115.000	3635355.000	-11.250	MB
81505	385115.000	3635365.000	-11.260	MB
81506	385115.000	3635375.000	-11.290	MB
81507	385115.000	3635385.000	-11.290	MB
81508	385115.000	3635395.000	-11.320	MB
81509	385115.000	3635405.000	-11.310	MB
81510	385115.000	3635415.000	-11.370	MB
81511	385115.000	3635425.000	-11.410	MB
81512	385115.000	3635435.000	-11.410	MB
81513	385115.000	3635445.000	-11.460	MB
81514	385115.000	3635455.000	-11.470	MB
81515	385115.000	3635465.000	-11.510	MB
81516	385115.000	3635475.000	-11.470	MB
81517	385115.000	3635485.000	-11.450	MB
81518	385115.000	3635495.000	-11.430	MB
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81520	385115.000	3635515.000	-11.670	MB
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81523	385115.000	3635545.000	-11.500	MB
81524	385115.000	3635555.000	-11.470	MB
81525	385115.000	3635565.000	-11.450	MB
81526	385115.000	3635575.000	-11.450	MB
81527	385115.000	3635585.000	-11.430	MB
81528	385115.000	3635595.000	-11.440	MB
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81530	385115.000	3635615.000	-11.460	MB
81531	385115.000	3635625.000	-11.540	MB
81532	385115.000	3635635.000	-11.540	MB
81533	385115.000	3635645.000	-11.490	MB
81534	385115.000	3635655.000	-11.490	MB
81535	385115.000	3635665.000	-11.440	MB
81536	385115.000	3635675.000	-11.460	MB
81537	385115.000	3635685.000	-11.480	MB
81538	385115.000	3635695.000	-11.540	MB
81539	385115.000	3635705.000	-11.630	MB
81540	385115.000	3635715.000	-11.660	MB
81541	385115.000	3635725.000	-11.790	MB
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81543	385115.000	3635745.000	-11.710	MB
81544	385115.000	3635755.000	-11.570	MB
81545	385115.000	3635765.000	-11.480	MB
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81547	385115.000	3635785.000	-11.480	MB
81548	385115.000	3635795.000	-11.530	MB
81549	385115.000	3635805.000	-11.750	MB
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81551	385115.000	3635825.000	-11.740	MB
81552	385115.000	3635835.000	-11.730	MB
81553	385115.000	3635845.000	-11.720	MB
81554	385115.000	3635855.000	-11.640	MB
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81558	385115.000	3635895.000	-11.350	MB
81559	385115.000	3635905.000	-11.330	MB
81560	385115.000	3635915.000	-11.350	MB
81561	385115.000	3635925.000	-11.330	MB
81562	385115.000	3635935.000	-11.230	MB
81563	385115.000	3635945.000	-11.200	MB

81564	385115.000	3635955.000	-11.160	MB
81565	385115.000	3635965.000	-11.100	MB
81566	385115.000	3635975.000	-11.010	MB
81567	385115.000	3635985.000	-10.990	MB
81568	385115.000	3635995.000	-10.990	MB
81569	385115.000	3636005.000	-10.940	MB
81570	385115.000	3636015.000	-10.940	MB
81571	385115.000	3636025.000	-10.880	MB
81572	385115.000	3636035.000	-10.840	MB
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81594	385115.000	3636255.000	-11.840	MB
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81597	385115.000	3636285.000	-12.320	MB
81598	385115.000	3636295.000	-12.600	MB
81599	385115.000	3636305.000	-12.640	MB
81600	385115.000	3636315.000	-12.510	MB
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81604	385115.000	3636355.000	-10.440	MB
81605	385115.000	3636365.000	-9.800	MB
81606	385115.000	3636375.000	-9.300	MB
81607	385115.000	3636385.000	-8.420	MB
81608	385115.000	3636395.000	-8.150	MB
81609	385115.000	3636405.000	-7.790	MB
81610	385115.000	3636415.000	-7.680	MB
81611	385115.000	3636425.000	-7.740	MB
81612	385115.000	3636435.000	-7.770	MB
81613	385115.000	3636445.000	-7.860	MB
81614	385115.000	3636455.000	-7.840	MB
81615	385115.000	3636465.000	-7.860	MB
81616	385115.000	3636475.000	-7.970	MB
81617	385115.000	3636485.000	-8.030	MB
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81619	385115.000	3636505.000	-8.800	MB
81620	385115.000	3636515.000	-10.410	MB
81621	385115.000	3636525.000	-11.850	MB
81622	385115.000	3636535.000	-12.920	MB
81623	385115.000	3636545.000	-13.590	MB
81624	385115.000	3636555.000	-14.480	MB
81625	385115.000	3636565.000	-14.330	MB
81626	385115.000	3636575.000	-14.460	MB
81627	385115.000	3636585.000	-14.050	MB
81628	385115.000	3636595.000	-13.290	MB
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81630	385115.000	3636615.000	-12.120	MB
81631	385115.000	3636625.000	-11.200	MB
81632	385115.000	3636635.000	-10.880	MB
81633	385115.000	3636645.000	-9.770	MB
81634	385115.000	3636655.000	-8.970	MB
81635	385115.000	3636665.000	-9.100	MB
81636	385115.000	3636675.000	-8.880	MB
81637	385115.000	3636685.000	-8.810	MB
81638	385115.000	3636695.000	-8.670	MB
81639	385115.000	3636705.000	-8.690	MB
81640	385115.000	3636715.000	-8.670	MB
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81646	385115.000	3636775.000	-7.800	MB
81647	385115.000	3636785.000	-7.770	MB
81648	385115.000	3636795.000	-7.720	MB
81649	385115.000	3636805.000	-7.660	MB
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81652	385115.000	3636835.000	-7.540	MB
81653	385115.000	3636845.000	-7.460	MB
81654	385115.000	3636855.000	-7.390	MB
81655	385115.000	3636865.000	-7.360	MB
81656	385115.000	3636875.000	-7.380	MB
81657	385115.000	3636885.000	-7.390	MB
81658	385115.000	3636895.000	-7.400	MB
81659	385115.000	3636905.000	-7.430	MB
81660	385115.000	3636915.000	-7.420	MB
81661	385115.000	3636925.000	-7.420	MB
81662	385115.000	3636935.000	-7.430	MB
81663	385115.000	3636945.000	-7.420	MB
81664	385115.000	3636955.000	-7.360	MB
81665	385105.000	3634835.000	-10.120	MB
81666	385105.000	3634845.000	-10.050	MB
81667	385105.000	3634855.000	-10.140	MB
81668	385105.000	3634865.000	-10.450	MB
81669	385105.000	3634875.000	-10.060	MB
81670	385105.000	3634885.000	-10.250	MB
81671	385105.000	3634895.000	-10.280	MB
81672	385105.000	3634905.000	-10.390	MB
81673	385105.000	3634915.000	-10.530	MB
81674	385105.000	3634925.000	-10.470	MB
81675	385105.000	3634935.000	-10.590	MB
81676	385105.000	3634945.000	-10.570	MB
81677	385105.000	3634955.000	-10.600	MB
81678	385105.000	3634965.000	-10.570	MB
81679	385105.000	3634975.000	-10.710	MB
81680	385105.000	3634985.000	-10.790	MB
81681	385105.000	3634995.000	-10.860	MB
81682	385105.000	3635005.000	-10.960	MB
81683	385105.000	3635015.000	-10.980	MB
81684	385105.000	3635025.000	-10.910	MB
81685	385105.000	3635035.000	-10.760	MB
81686	385105.000	3635045.000	-10.830	MB
81687	385105.000	3635055.000	-11.090	MB
81688	385105.000	3635065.000	-11.180	MB
81689	385105.000	3635075.000	-11.220	MB
81690	385105.000	3635085.000	-11.340	MB
81691	385105.000	3635095.000	-11.180	MB
81692	385105.000	3635105.000	-11.200	MB
81693	385105.000	3635115.000	-11.110	MB
81694	385105.000	3635125.000	-11.240	MB
81695	385105.000	3635135.000	-10.930	MB

81696	385105.000	3635145.000	-10.920	MB
81697	385105.000	3635155.000	-10.890	MB
81698	385105.000	3635165.000	-10.890	MB
81699	385105.000	3635175.000	-10.890	MB
81700	385105.000	3635185.000	-10.850	MB
81701	385105.000	3635195.000	-10.880	MB
81702	385105.000	3635205.000	-10.900	MB
81703	385105.000	3635215.000	-10.990	MB
81704	385105.000	3635225.000	-11.090	MB
81705	385105.000	3635235.000	-11.160	MB
81706	385105.000	3635245.000	-11.200	MB
81707	385105.000	3635255.000	-11.220	MB
81708	385105.000	3635265.000	-11.260	MB
81709	385105.000	3635275.000	-11.290	MB
81710	385105.000	3635285.000	-11.280	MB
81711	385105.000	3635295.000	-11.330	MB
81712	385105.000	3635305.000	-11.370	MB
81713	385105.000	3635315.000	-11.420	MB
81714	385105.000	3635325.000	-11.460	MB
81715	385105.000	3635335.000	-11.500	MB
81716	385105.000	3635345.000	-11.540	MB
81717	385105.000	3635355.000	-11.610	MB
81718	385105.000	3635365.000	-11.610	MB
81719	385105.000	3635375.000	-11.630	MB
81720	385105.000	3635385.000	-11.590	MB
81721	385105.000	3635395.000	-11.600	MB
81722	385105.000	3635405.000	-11.580	MB
81723	385105.000	3635415.000	-11.580	MB
81724	385105.000	3635425.000	-11.680	MB
81725	385105.000	3635435.000	-11.670	MB
81726	385105.000	3635445.000	-11.710	MB
81727	385105.000	3635455.000	-11.720	MB
81728	385105.000	3635465.000	-11.690	MB
81729	385105.000	3635475.000	-11.650	MB
81730	385105.000	3635485.000	-11.650	MB
81731	385105.000	3635495.000	-11.600	MB
81732	385105.000	3635505.000	-11.620	MB
81733	385105.000	3635515.000	-11.590	MB
81734	385105.000	3635525.000	-11.580	MB
81735	385105.000	3635535.000	-11.560	MB
81736	385105.000	3635545.000	-11.620	MB
81737	385105.000	3635555.000	-11.590	MB
81738	385105.000	3635565.000	-11.540	MB
81739	385105.000	3635575.000	-11.540	MB
81740	385105.000	3635585.000	-11.520	MB
81741	385105.000	3635595.000	-11.560	MB
81742	385105.000	3635605.000	-11.520	MB
81743	385105.000	3635615.000	-11.550	MB
81744	385105.000	3635625.000	-11.550	MB
81745	385105.000	3635635.000	-11.560	MB
81746	385105.000	3635645.000	-11.630	MB
81747	385105.000	3635655.000	-11.660	MB
81748	385105.000	3635665.000	-11.600	MB
81749	385105.000	3635675.000	-11.620	MB
81750	385105.000	3635685.000	-11.640	MB
81751	385105.000	3635695.000	-11.680	MB
81752	385105.000	3635705.000	-11.740	MB
81753	385105.000	3635715.000	-11.770	MB
81754	385105.000	3635725.000	-11.780	MB
81755	385105.000	3635735.000	-11.780	MB
81756	385105.000	3635745.000	-11.760	MB
81757	385105.000	3635755.000	-11.680	MB
81758	385105.000	3635765.000	-11.640	MB
81759	385105.000	3635775.000	-11.530	MB
81760	385105.000	3635785.000	-11.550	MB
81761	385105.000	3635795.000	-11.640	MB

81762	385105.000	3635805.000	-11.700	MB
81763	385105.000	3635815.000	-11.690	MB
81764	385105.000	3635825.000	-11.690	MB
81765	385105.000	3635835.000	-11.670	MB
81766	385105.000	3635845.000	-11.660	MB
81767	385105.000	3635855.000	-11.590	MB
81768	385105.000	3635865.000	-11.570	MB
81769	385105.000	3635875.000	-11.450	MB
81770	385105.000	3635885.000	-11.410	MB
81771	385105.000	3635895.000	-11.350	MB
81772	385105.000	3635905.000	-11.290	MB
81773	385105.000	3635915.000	-11.340	MB
81774	385105.000	3635925.000	-11.340	MB
81775	385105.000	3635935.000	-11.300	MB
81776	385105.000	3635945.000	-11.250	MB
81777	385105.000	3635955.000	-11.180	MB
81778	385105.000	3635965.000	-11.110	MB
81779	385105.000	3635975.000	-11.040	MB
81780	385105.000	3635985.000	-10.890	MB
81781	385105.000	3635995.000	-10.920	MB
81782	385105.000	3636005.000	-10.950	MB
81783	385105.000	3636015.000	-10.950	MB
81784	385105.000	3636025.000	-10.890	MB
81785	385105.000	3636035.000	-10.790	MB
81786	385105.000	3636045.000	-10.750	MB
81787	385105.000	3636055.000	-10.730	MB
81788	385105.000	3636065.000	-10.690	MB
81789	385105.000	3636075.000	-10.720	MB
81790	385105.000	3636085.000	-10.730	MB
81791	385105.000	3636095.000	-10.760	MB
81792	385105.000	3636105.000	-10.760	MB
81793	385105.000	3636115.000	-10.770	MB
81794	385105.000	3636125.000	-10.800	MB
81795	385105.000	3636135.000	-10.780	MB
81796	385105.000	3636145.000	-10.810	MB
81797	385105.000	3636155.000	-10.850	MB
81798	385105.000	3636165.000	-10.990	MB
81799	385105.000	3636175.000	-11.280	MB
81800	385105.000	3636185.000	-11.310	MB
81801	385105.000	3636195.000	-11.280	MB
81802	385105.000	3636205.000	-11.270	MB
81803	385105.000	3636215.000	-11.420	MB
81804	385105.000	3636225.000	-11.470	MB
81805	385105.000	3636235.000	-11.630	MB
81806	385105.000	3636245.000	-11.620	MB
81807	385105.000	3636255.000	-11.620	MB
81808	385105.000	3636265.000	-11.720	MB
81809	385105.000	3636275.000	-11.870	MB
81810	385105.000	3636285.000	-12.070	MB
81811	385105.000	3636295.000	-12.130	MB
81812	385105.000	3636305.000	-12.180	MB
81813	385105.000	3636315.000	-12.310	MB
81814	385105.000	3636325.000	-12.300	MB
81815	385105.000	3636335.000	-11.800	MB
81816	385105.000	3636345.000	-10.980	MB
81817	385105.000	3636355.000	-10.420	MB
81818	385105.000	3636365.000	-10.060	MB
81819	385105.000	3636375.000	-9.260	MB
81820	385105.000	3636385.000	-8.440	MB
81821	385105.000	3636395.000	-8.150	MB
81822	385105.000	3636405.000	-7.750	MB
81823	385105.000	3636415.000	-7.710	MB
81824	385105.000	3636425.000	-7.770	MB
81825	385105.000	3636435.000	-7.810	MB
81826	385105.000	3636445.000	-7.930	MB
81827	385105.000	3636455.000	-7.950	MB

81828	385105.000	3636465.000	-8.000	MB
81829	385105.000	3636475.000	-8.120	MB
81830	385105.000	3636485.000	-8.230	MB
81831	385105.000	3636495.000	-8.840	MB
81832	385105.000	3636505.000	-10.010	MB
81833	385105.000	3636515.000	-11.490	MB
81834	385105.000	3636525.000	-12.890	MB
81835	385105.000	3636535.000	-13.980	MB
81836	385105.000	3636545.000	-14.730	MB
81837	385105.000	3636555.000	-15.350	MB
81838	385105.000	3636565.000	-15.870	MB
81839	385105.000	3636575.000	-16.080	MB
81840	385105.000	3636585.000	-15.880	MB
81841	385105.000	3636595.000	-15.520	MB
81842	385105.000	3636605.000	-14.810	MB
81843	385105.000	3636615.000	-14.180	MB
81844	385105.000	3636625.000	-12.690	MB
81845	385105.000	3636635.000	-12.370	MB
81846	385105.000	3636645.000	-11.360	MB
81847	385105.000	3636655.000	-9.910	MB
81848	385105.000	3636665.000	-9.470	MB
81849	385105.000	3636675.000	-9.340	MB
81850	385105.000	3636685.000	-9.370	MB
81851	385105.000	3636695.000	-9.360	MB
81852	385105.000	3636705.000	-9.420	MB
81853	385105.000	3636715.000	-9.540	MB
81854	385105.000	3636725.000	-10.120	MB
81855	385105.000	3636735.000	-10.010	MB
81856	385105.000	3636745.000	-9.860	MB
81857	385105.000	3636755.000	-9.840	MB
81858	385105.000	3636765.000	-9.560	MB
81859	385105.000	3636775.000	-9.320	MB
81860	385105.000	3636785.000	-9.390	MB
81861	385105.000	3636795.000	-8.980	MB
81862	385105.000	3636805.000	-8.530	MB
81863	385105.000	3636815.000	-8.450	MB
81864	385105.000	3636825.000	-8.210	MB
81865	385105.000	3636835.000	-8.070	MB
81866	385105.000	3636845.000	-8.030	MB
81867	385105.000	3636855.000	-8.010	MB
81868	385105.000	3636865.000	-7.870	MB
81869	385105.000	3636875.000	-7.850	MB
81870	385105.000	3636885.000	-7.760	MB
81871	385105.000	3636895.000	-7.800	MB
81872	385105.000	3636905.000	-7.760	MB
81873	385105.000	3636915.000	-7.690	MB
81874	385105.000	3636925.000	-7.640	MB
81875	385105.000	3636935.000	-7.660	MB
81876	385105.000	3636945.000	-7.640	MB
81877	385105.000	3636955.000	-7.680	MB
81878	385095.000	3634825.000	-11.200	MB
81879	385095.000	3634835.000	-10.990	MB
81880	385095.000	3634845.000	-10.980	MB
81881	385095.000	3634855.000	-11.160	MB
81882	385095.000	3634865.000	-10.960	MB
81883	385095.000	3634875.000	-11.020	MB
81884	385095.000	3634885.000	-11.060	MB
81885	385095.000	3634895.000	-11.120	MB
81886	385095.000	3634905.000	-11.120	MB
81887	385095.000	3634915.000	-11.130	MB
81888	385095.000	3634925.000	-11.130	MB
81889	385095.000	3634935.000	-11.130	MB
81890	385095.000	3634945.000	-11.240	MB
81891	385095.000	3634955.000	-11.220	MB
81892	385095.000	3634965.000	-11.200	MB
81893	385095.000	3634975.000	-11.230	MB

81894	385095.000	3634985.000	-11.240	MB
81895	385095.000	3634995.000	-11.320	MB
81896	385095.000	3635005.000	-11.320	MB
81897	385095.000	3635015.000	-11.300	MB
81898	385095.000	3635025.000	-11.240	MB
81899	385095.000	3635035.000	-11.160	MB
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81903	385095.000	3635075.000	-11.310	MB
81904	385095.000	3635085.000	-11.310	MB
81905	385095.000	3635095.000	-11.320	MB
81906	385095.000	3635105.000	-11.330	MB
81907	385095.000	3635115.000	-11.360	MB
81908	385095.000	3635125.000	-11.300	MB
81909	385095.000	3635135.000	-11.260	MB
81910	385095.000	3635145.000	-11.200	MB
81911	385095.000	3635155.000	-11.190	MB
81912	385095.000	3635165.000	-11.160	MB
81913	385095.000	3635175.000	-11.230	MB
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81922	385095.000	3635265.000	-11.420	MB
81923	385095.000	3635275.000	-11.440	MB
81924	385095.000	3635285.000	-11.440	MB
81925	385095.000	3635295.000	-11.480	MB
81926	385095.000	3635305.000	-11.500	MB
81927	385095.000	3635315.000	-11.530	MB
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81930	385095.000	3635345.000	-11.680	MB
81931	385095.000	3635355.000	-11.740	MB
81932	385095.000	3635365.000	-11.730	MB
81933	385095.000	3635375.000	-11.720	MB
81934	385095.000	3635385.000	-11.670	MB
81935	385095.000	3635395.000	-11.690	MB
81936	385095.000	3635405.000	-11.680	MB
81937	385095.000	3635415.000	-11.680	MB
81938	385095.000	3635425.000	-11.660	MB
81939	385095.000	3635435.000	-11.670	MB
81940	385095.000	3635445.000	-11.680	MB
81941	385095.000	3635455.000	-11.680	MB
81942	385095.000	3635465.000	-11.700	MB
81943	385095.000	3635475.000	-11.670	MB
81944	385095.000	3635485.000	-11.640	MB
81945	385095.000	3635495.000	-11.610	MB
81946	385095.000	3635505.000	-11.600	MB
81947	385095.000	3635515.000	-11.580	MB
81948	385095.000	3635525.000	-11.560	MB
81949	385095.000	3635535.000	-11.560	MB
81950	385095.000	3635545.000	-11.540	MB
81951	385095.000	3635555.000	-11.540	MB
81952	385095.000	3635565.000	-11.560	MB
81953	385095.000	3635575.000	-11.550	MB
81954	385095.000	3635585.000	-11.450	MB
81955	385095.000	3635595.000	-11.480	MB
81956	385095.000	3635605.000	-11.430	MB
81957	385095.000	3635615.000	-11.490	MB
81958	385095.000	3635625.000	-11.500	MB
81959	385095.000	3635635.000	-11.540	MB

81960	385095.000	3635645.000	-11.570	MB
81961	385095.000	3635655.000	-11.580	MB
81962	385095.000	3635665.000	-11.590	MB
81963	385095.000	3635675.000	-11.610	MB
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81972	385095.000	3635765.000	-11.620	MB
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81986	385095.000	3635905.000	-11.310	MB
81987	385095.000	3635915.000	-11.350	MB
81988	385095.000	3635925.000	-11.290	MB
81989	385095.000	3635935.000	-11.240	MB
81990	385095.000	3635945.000	-11.170	MB
81991	385095.000	3635955.000	-11.090	MB
81992	385095.000	3635965.000	-11.000	MB
81993	385095.000	3635975.000	-10.900	MB
81994	385095.000	3635985.000	-10.840	MB
81995	385095.000	3635995.000	-10.820	MB
81996	385095.000	3636005.000	-10.820	MB
81997	385095.000	3636015.000	-10.810	MB
81998	385095.000	3636025.000	-10.760	MB
81999	385095.000	3636035.000	-10.710	MB
82000	385095.000	3636045.000	-10.660	MB
82001	385095.000	3636055.000	-10.640	MB
82002	385095.000	3636065.000	-10.640	MB
82003	385095.000	3636075.000	-10.650	MB
82004	385095.000	3636085.000	-10.660	MB
82005	385095.000	3636095.000	-10.650	MB
82006	385095.000	3636105.000	-10.720	MB
82007	385095.000	3636115.000	-10.670	MB
82008	385095.000	3636125.000	-10.670	MB
82009	385095.000	3636135.000	-10.610	MB
82010	385095.000	3636145.000	-10.620	MB
82011	385095.000	3636155.000	-10.650	MB
82012	385095.000	3636165.000	-10.730	MB
82013	385095.000	3636175.000	-10.850	MB
82014	385095.000	3636185.000	-11.010	MB
82015	385095.000	3636195.000	-10.980	MB
82016	385095.000	3636205.000	-10.760	MB
82017	385095.000	3636215.000	-11.230	MB
82018	385095.000	3636225.000	-11.440	MB
82019	385095.000	3636235.000	-11.540	MB
82020	385095.000	3636245.000	-11.480	MB
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82022	385095.000	3636265.000	-11.660	MB
82023	385095.000	3636275.000	-11.830	MB
82024	385095.000	3636285.000	-11.730	MB
82025	385095.000	3636295.000	-11.800	MB

82026	385095.000	3636305.000	-11.720	MB
82027	385095.000	3636315.000	-11.770	MB
82028	385095.000	3636325.000	-11.760	MB
82029	385095.000	3636335.000	-11.780	MB
82030	385095.000	3636345.000	-10.970	MB
82031	385095.000	3636355.000	-10.190	MB
82032	385095.000	3636365.000	-10.020	MB
82033	385095.000	3636375.000	-9.270	MB
82034	385095.000	3636385.000	-8.410	MB
82035	385095.000	3636395.000	-8.130	MB
82036	385095.000	3636405.000	-7.700	MB
82037	385095.000	3636415.000	-7.690	MB
82038	385095.000	3636425.000	-7.760	MB
82039	385095.000	3636435.000	-7.800	MB
82040	385095.000	3636445.000	-7.900	MB
82041	385095.000	3636455.000	-7.930	MB
82042	385095.000	3636465.000	-8.010	MB
82043	385095.000	3636475.000	-8.150	MB
82044	385095.000	3636485.000	-8.280	MB
82045	385095.000	3636495.000	-8.990	MB
82046	385095.000	3636505.000	-10.420	MB
82047	385095.000	3636515.000	-12.220	MB
82048	385095.000	3636525.000	-14.000	MB
82049	385095.000	3636535.000	-15.040	MB
82050	385095.000	3636545.000	-15.170	MB
82051	385095.000	3636555.000	-15.780	MB
82052	385095.000	3636565.000	-16.270	MB
82053	385095.000	3636575.000	-16.590	MB
82054	385095.000	3636585.000	-16.560	MB
82055	385095.000	3636595.000	-16.270	MB
82056	385095.000	3636605.000	-15.730	MB
82057	385095.000	3636615.000	-14.980	MB
82058	385095.000	3636625.000	-14.160	MB
82059	385095.000	3636635.000	-13.550	MB
82060	385095.000	3636645.000	-12.680	MB
82061	385095.000	3636655.000	-11.330	MB
82062	385095.000	3636665.000	-10.320	MB
82063	385095.000	3636675.000	-10.030	MB
82064	385095.000	3636685.000	-9.880	MB
82065	385095.000	3636695.000	-9.910	MB
82066	385095.000	3636705.000	-10.010	MB
82067	385095.000	3636715.000	-10.140	MB
82068	385095.000	3636725.000	-10.240	MB
82069	385095.000	3636735.000	-10.340	MB
82070	385095.000	3636745.000	-10.320	MB
82071	385095.000	3636755.000	-10.220	MB
82072	385095.000	3636765.000	-10.120	MB
82073	385095.000	3636775.000	-10.030	MB
82074	385095.000	3636785.000	-10.300	MB
82075	385095.000	3636795.000	-10.110	MB
82076	385095.000	3636805.000	-9.870	MB
82077	385095.000	3636815.000	-9.600	MB
82078	385095.000	3636825.000	-9.350	MB
82079	385095.000	3636835.000	-8.910	MB
82080	385095.000	3636845.000	-8.730	MB
82081	385095.000	3636855.000	-8.620	MB
82082	385095.000	3636865.000	-8.650	MB
82083	385095.000	3636875.000	-8.470	MB
82084	385095.000	3636885.000	-8.310	MB
82085	385095.000	3636895.000	-8.240	MB
82086	385095.000	3636905.000	-8.180	MB
82087	385095.000	3636915.000	-8.010	MB
82088	385095.000	3636925.000	-7.960	MB
82089	385095.000	3636935.000	-7.930	MB
82090	385095.000	3636945.000	-7.900	MB
82091	385095.000	3636955.000	-7.920	MB

82092	385085.000	3634825.000	-11.290	MB
82093	385085.000	3634835.000	-11.360	MB
82094	385085.000	3634845.000	-11.350	MB
82095	385085.000	3634855.000	-11.390	MB
82096	385085.000	3634865.000	-11.380	MB
82097	385085.000	3634875.000	-11.460	MB
82098	385085.000	3634885.000	-11.540	MB
82099	385085.000	3634895.000	-11.570	MB
82100	385085.000	3634905.000	-11.580	MB
82101	385085.000	3634915.000	-11.530	MB
82102	385085.000	3634925.000	-11.670	MB
82103	385085.000	3634935.000	-11.650	MB
82104	385085.000	3634945.000	-11.620	MB
82105	385085.000	3634955.000	-11.580	MB
82106	385085.000	3634965.000	-11.550	MB
82107	385085.000	3634975.000	-11.560	MB
82108	385085.000	3634985.000	-11.550	MB
82109	385085.000	3634995.000	-11.580	MB
82110	385085.000	3635005.000	-11.560	MB
82111	385085.000	3635015.000	-11.510	MB
82112	385085.000	3635025.000	-11.460	MB
82113	385085.000	3635035.000	-11.420	MB
82114	385085.000	3635045.000	-11.430	MB
82115	385085.000	3635055.000	-11.510	MB
82116	385085.000	3635065.000	-11.480	MB
82117	385085.000	3635075.000	-11.430	MB
82118	385085.000	3635085.000	-11.420	MB
82119	385085.000	3635095.000	-11.420	MB
82120	385085.000	3635105.000	-11.440	MB
82121	385085.000	3635115.000	-11.480	MB
82122	385085.000	3635125.000	-11.460	MB
82123	385085.000	3635135.000	-11.430	MB
82124	385085.000	3635145.000	-11.400	MB
82125	385085.000	3635155.000	-11.370	MB
82126	385085.000	3635165.000	-11.330	MB
82127	385085.000	3635175.000	-11.260	MB
82128	385085.000	3635185.000	-11.220	MB
82129	385085.000	3635195.000	-11.200	MB
82130	385085.000	3635205.000	-11.220	MB
82131	385085.000	3635215.000	-11.280	MB
82132	385085.000	3635225.000	-11.310	MB
82133	385085.000	3635235.000	-11.320	MB
82134	385085.000	3635245.000	-11.350	MB
82135	385085.000	3635255.000	-11.390	MB
82136	385085.000	3635265.000	-11.410	MB
82137	385085.000	3635275.000	-11.430	MB
82138	385085.000	3635285.000	-11.450	MB
82139	385085.000	3635295.000	-11.480	MB
82140	385085.000	3635305.000	-11.520	MB
82141	385085.000	3635315.000	-11.550	MB
82142	385085.000	3635325.000	-11.570	MB
82143	385085.000	3635335.000	-11.590	MB
82144	385085.000	3635345.000	-11.640	MB
82145	385085.000	3635355.000	-11.640	MB
82146	385085.000	3635365.000	-11.650	MB
82147	385085.000	3635375.000	-11.650	MB
82148	385085.000	3635385.000	-11.630	MB
82149	385085.000	3635395.000	-11.640	MB
82150	385085.000	3635405.000	-11.650	MB
82151	385085.000	3635415.000	-11.620	MB
82152	385085.000	3635425.000	-11.620	MB
82153	385085.000	3635435.000	-11.610	MB
82154	385085.000	3635445.000	-11.610	MB
82155	385085.000	3635455.000	-11.620	MB
82156	385085.000	3635465.000	-11.610	MB
82157	385085.000	3635475.000	-11.590	MB

82158	385085.000	3635485.000	-11.560	MB
82159	385085.000	3635495.000	-11.620	MB
82160	385085.000	3635505.000	-11.590	MB
82161	385085.000	3635515.000	-11.550	MB
82162	385085.000	3635525.000	-11.490	MB
82163	385085.000	3635535.000	-11.470	MB
82164	385085.000	3635545.000	-11.470	MB
82165	385085.000	3635555.000	-11.460	MB
82166	385085.000	3635565.000	-11.460	MB
82167	385085.000	3635575.000	-11.450	MB
82168	385085.000	3635585.000	-11.400	MB
82169	385085.000	3635595.000	-11.440	MB
82170	385085.000	3635605.000	-11.370	MB
82171	385085.000	3635615.000	-11.380	MB
82172	385085.000	3635625.000	-11.440	MB
82173	385085.000	3635635.000	-11.470	MB
82174	385085.000	3635645.000	-11.500	MB
82175	385085.000	3635655.000	-11.500	MB
82176	385085.000	3635665.000	-11.530	MB
82177	385085.000	3635675.000	-11.500	MB
82178	385085.000	3635685.000	-11.470	MB
82179	385085.000	3635695.000	-11.440	MB
82180	385085.000	3635705.000	-11.500	MB
82181	385085.000	3635715.000	-11.510	MB
82182	385085.000	3635725.000	-11.610	MB
82183	385085.000	3635735.000	-11.640	MB
82184	385085.000	3635745.000	-11.660	MB
82185	385085.000	3635755.000	-11.630	MB
82186	385085.000	3635765.000	-11.560	MB
82187	385085.000	3635775.000	-11.460	MB
82188	385085.000	3635785.000	-11.320	MB
82189	385085.000	3635795.000	-11.440	MB
82190	385085.000	3635805.000	-11.440	MB
82191	385085.000	3635815.000	-11.430	MB
82192	385085.000	3635825.000	-11.410	MB
82193	385085.000	3635835.000	-11.380	MB
82194	385085.000	3635845.000	-11.380	MB
82195	385085.000	3635855.000	-11.340	MB
82196	385085.000	3635865.000	-11.330	MB
82197	385085.000	3635875.000	-11.280	MB
82198	385085.000	3635885.000	-11.250	MB
82199	385085.000	3635895.000	-11.210	MB
82200	385085.000	3635905.000	-11.350	MB
82201	385085.000	3635915.000	-11.270	MB
82202	385085.000	3635925.000	-11.120	MB
82203	385085.000	3635935.000	-11.050	MB
82204	385085.000	3635945.000	-10.990	MB
82205	385085.000	3635955.000	-10.900	MB
82206	385085.000	3635965.000	-10.820	MB
82207	385085.000	3635975.000	-10.750	MB
82208	385085.000	3635985.000	-10.690	MB
82209	385085.000	3635995.000	-10.650	MB
82210	385085.000	3636005.000	-10.630	MB
82211	385085.000	3636015.000	-10.600	MB
82212	385085.000	3636025.000	-10.570	MB
82213	385085.000	3636035.000	-10.520	MB
82214	385085.000	3636045.000	-10.470	MB
82215	385085.000	3636055.000	-10.420	MB
82216	385085.000	3636065.000	-10.350	MB
82217	385085.000	3636075.000	-10.300	MB
82218	385085.000	3636085.000	-10.260	MB
82219	385085.000	3636095.000	-10.240	MB
82220	385085.000	3636105.000	-10.470	MB
82221	385085.000	3636115.000	-10.460	MB
82222	385085.000	3636125.000	-10.410	MB
82223	385085.000	3636135.000	-10.390	MB

82224	385085.000	3636145.000	-10.280	MB
82225	385085.000	3636155.000	-10.350	MB
82226	385085.000	3636165.000	-10.380	MB
82227	385085.000	3636175.000	-10.450	MB
82228	385085.000	3636185.000	-10.450	MB
82229	385085.000	3636195.000	-10.400	MB
82230	385085.000	3636205.000	-10.320	MB
82231	385085.000	3636215.000	-10.540	MB
82232	385085.000	3636225.000	-10.850	MB
82233	385085.000	3636235.000	-10.870	MB
82234	385085.000	3636245.000	-11.020	MB
82235	385085.000	3636255.000	-11.250	MB
82236	385085.000	3636265.000	-11.280	MB
82237	385085.000	3636275.000	-11.450	MB
82238	385085.000	3636285.000	-11.570	MB
82239	385085.000	3636295.000	-11.550	MB
82240	385085.000	3636305.000	-11.590	MB
82241	385085.000	3636315.000	-11.630	MB
82242	385085.000	3636325.000	-11.730	MB
82243	385085.000	3636335.000	-11.730	MB
82244	385085.000	3636345.000	-10.560	MB
82245	385085.000	3636355.000	-10.280	MB
82246	385085.000	3636365.000	-9.820	MB
82247	385085.000	3636375.000	-9.100	MB
82248	385085.000	3636385.000	-8.230	MB
82249	385085.000	3636395.000	-7.850	MB
82250	385085.000	3636405.000	-7.390	MB
82251	385085.000	3636415.000	-7.440	MB
82252	385085.000	3636425.000	-7.420	MB
82253	385085.000	3636435.000	-7.490	MB
82254	385085.000	3636445.000	-7.580	MB
82255	385085.000	3636455.000	-7.660	MB
82256	385085.000	3636465.000	-7.810	MB
82257	385085.000	3636475.000	-8.070	MB
82258	385085.000	3636485.000	-8.310	MB
82259	385085.000	3636495.000	-8.890	MB
82260	385085.000	3636505.000	-10.610	MB
82261	385085.000	3636515.000	-12.410	MB
82262	385085.000	3636525.000	-13.640	MB
82263	385085.000	3636535.000	-14.850	MB
82264	385085.000	3636545.000	-15.280	MB
82265	385085.000	3636555.000	-15.980	MB
82266	385085.000	3636565.000	-16.500	MB
82267	385085.000	3636575.000	-16.640	MB
82268	385085.000	3636585.000	-16.660	MB
82269	385085.000	3636595.000	-16.470	MB
82270	385085.000	3636605.000	-15.970	MB
82271	385085.000	3636615.000	-15.630	MB
82272	385085.000	3636625.000	-15.010	MB
82273	385085.000	3636635.000	-14.300	MB
82274	385085.000	3636645.000	-13.320	MB
82275	385085.000	3636655.000	-12.300	MB
82276	385085.000	3636665.000	-11.170	MB
82277	385085.000	3636675.000	-10.620	MB
82278	385085.000	3636685.000	-10.300	MB
82279	385085.000	3636695.000	-10.310	MB
82280	385085.000	3636705.000	-10.330	MB
82281	385085.000	3636715.000	-10.420	MB
82282	385085.000	3636725.000	-10.450	MB
82283	385085.000	3636735.000	-10.530	MB
82284	385085.000	3636745.000	-10.480	MB
82285	385085.000	3636755.000	-10.480	MB
82286	385085.000	3636765.000	-10.450	MB
82287	385085.000	3636775.000	-10.430	MB
82288	385085.000	3636785.000	-10.410	MB
82289	385085.000	3636795.000	-10.420	MB

82290	385085.000	3636805.000	-10.350	MB
82291	385085.000	3636815.000	-10.300	MB
82292	385085.000	3636825.000	-10.040	MB
82293	385085.000	3636835.000	-9.710	MB
82294	385085.000	3636845.000	-9.550	MB
82295	385085.000	3636855.000	-9.230	MB
82296	385085.000	3636865.000	-9.200	MB
82297	385085.000	3636875.000	-9.020	MB
82298	385085.000	3636885.000	-8.840	MB
82299	385085.000	3636895.000	-8.890	MB
82300	385085.000	3636905.000	-8.630	MB
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82304	385085.000	3636945.000	-8.280	MB
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82307	385075.000	3634835.000	-11.520	MB
82308	385075.000	3634845.000	-11.540	MB
82309	385075.000	3634855.000	-11.530	MB
82310	385075.000	3634865.000	-11.380	MB
82311	385075.000	3634875.000	-11.440	MB
82312	385075.000	3634885.000	-11.620	MB
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82318	385075.000	3634945.000	-11.640	MB
82319	385075.000	3634955.000	-11.610	MB
82320	385075.000	3634965.000	-11.590	MB
82321	385075.000	3634975.000	-11.590	MB
82322	385075.000	3634985.000	-11.600	MB
82323	385075.000	3634995.000	-11.600	MB
82324	385075.000	3635005.000	-11.590	MB
82325	385075.000	3635015.000	-11.590	MB
82326	385075.000	3635025.000	-11.580	MB
82327	385075.000	3635035.000	-11.580	MB
82328	385075.000	3635045.000	-11.580	MB
82329	385075.000	3635055.000	-11.600	MB
82330	385075.000	3635065.000	-11.590	MB
82331	385075.000	3635075.000	-11.540	MB
82332	385075.000	3635085.000	-11.510	MB
82333	385075.000	3635095.000	-11.500	MB
82334	385075.000	3635105.000	-11.520	MB
82335	385075.000	3635115.000	-11.540	MB
82336	385075.000	3635125.000	-11.510	MB
82337	385075.000	3635135.000	-11.480	MB
82338	385075.000	3635145.000	-11.450	MB
82339	385075.000	3635155.000	-11.410	MB
82340	385075.000	3635165.000	-11.360	MB
82341	385075.000	3635175.000	-11.300	MB
82342	385075.000	3635185.000	-11.280	MB
82343	385075.000	3635195.000	-11.250	MB
82344	385075.000	3635205.000	-11.240	MB
82345	385075.000	3635215.000	-11.280	MB
82346	385075.000	3635225.000	-11.260	MB
82347	385075.000	3635235.000	-11.270	MB
82348	385075.000	3635245.000	-11.280	MB
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82350	385075.000	3635265.000	-11.350	MB
82351	385075.000	3635275.000	-11.400	MB
82352	385075.000	3635285.000	-11.420	MB
82353	385075.000	3635295.000	-11.460	MB
82354	385075.000	3635305.000	-11.490	MB
82355	385075.000	3635315.000	-11.490	MB

82356	385075.000	3635325.000	-11.480	MB
82357	385075.000	3635335.000	-11.460	MB
82358	385075.000	3635345.000	-11.460	MB
82359	385075.000	3635355.000	-11.530	MB
82360	385075.000	3635365.000	-11.520	MB
82361	385075.000	3635375.000	-11.520	MB
82362	385075.000	3635385.000	-11.520	MB
82363	385075.000	3635395.000	-11.550	MB
82364	385075.000	3635405.000	-11.460	MB
82365	385075.000	3635415.000	-11.450	MB
82366	385075.000	3635425.000	-11.480	MB
82367	385075.000	3635435.000	-11.500	MB
82368	385075.000	3635445.000	-11.530	MB
82369	385075.000	3635455.000	-11.530	MB
82370	385075.000	3635465.000	-11.520	MB
82371	385075.000	3635475.000	-11.470	MB
82372	385075.000	3635485.000	-11.400	MB
82373	385075.000	3635495.000	-11.360	MB
82374	385075.000	3635505.000	-11.430	MB
82375	385075.000	3635515.000	-11.400	MB
82376	385075.000	3635525.000	-11.370	MB
82377	385075.000	3635535.000	-11.360	MB
82378	385075.000	3635545.000	-11.350	MB
82379	385075.000	3635555.000	-11.360	MB
82380	385075.000	3635565.000	-11.360	MB
82381	385075.000	3635575.000	-11.330	MB
82382	385075.000	3635585.000	-11.280	MB
82383	385075.000	3635595.000	-11.230	MB
82384	385075.000	3635605.000	-11.250	MB
82385	385075.000	3635615.000	-11.270	MB
82386	385075.000	3635625.000	-11.270	MB
82387	385075.000	3635635.000	-11.240	MB
82388	385075.000	3635645.000	-11.260	MB
82389	385075.000	3635655.000	-11.240	MB
82390	385075.000	3635665.000	-11.230	MB
82391	385075.000	3635675.000	-11.190	MB
82392	385075.000	3635685.000	-11.140	MB
82393	385075.000	3635695.000	-11.100	MB
82394	385075.000	3635705.000	-11.150	MB
82395	385075.000	3635715.000	-11.140	MB
82396	385075.000	3635725.000	-11.140	MB
82397	385075.000	3635735.000	-11.230	MB
82398	385075.000	3635745.000	-11.200	MB
82399	385075.000	3635755.000	-11.400	MB
82400	385075.000	3635765.000	-11.360	MB
82401	385075.000	3635775.000	-11.330	MB
82402	385075.000	3635785.000	-11.270	MB
82403	385075.000	3635795.000	-11.270	MB
82404	385075.000	3635805.000	-11.300	MB
82405	385075.000	3635815.000	-11.230	MB
82406	385075.000	3635825.000	-11.150	MB
82407	385075.000	3635835.000	-11.180	MB
82408	385075.000	3635845.000	-11.190	MB
82409	385075.000	3635855.000	-11.180	MB
82410	385075.000	3635865.000	-11.160	MB
82411	385075.000	3635875.000	-11.120	MB
82412	385075.000	3635885.000	-11.080	MB
82413	385075.000	3635895.000	-11.020	MB
82414	385075.000	3635905.000	-10.890	MB
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82417	385075.000	3635935.000	-10.410	MB
82418	385075.000	3635945.000	-10.320	MB
82419	385075.000	3635955.000	-10.220	MB
82420	385075.000	3635965.000	-10.140	MB
82421	385075.000	3635975.000	-10.050	MB

82422	385075.000	3635985.000	-9.980	MB
82423	385075.000	3635995.000	-9.920	MB
82424	385075.000	3636005.000	-9.930	MB
82425	385075.000	3636015.000	-9.910	MB
82426	385075.000	3636025.000	-9.880	MB
82427	385075.000	3636035.000	-10.240	MB
82428	385075.000	3636045.000	-10.160	MB
82429	385075.000	3636055.000	-10.090	MB
82430	385075.000	3636065.000	-9.960	MB
82431	385075.000	3636075.000	-9.710	MB
82432	385075.000	3636085.000	-9.600	MB
82433	385075.000	3636095.000	-9.560	MB
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82463	385075.000	3636395.000	-7.510	MB
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82484	385075.000	3636605.000	-15.660	MB
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82487	385075.000	3636635.000	-14.960	MB

82488	385075.000	3636645.000	-13.490	MB
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82490	385075.000	3636665.000	-11.720	MB
82491	385075.000	3636675.000	-11.050	MB
82492	385075.000	3636685.000	-10.550	MB
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82584	385065.000	3635465.000	-11.110	MB
82585	385065.000	3635475.000	-11.030	MB
82586	385065.000	3635485.000	-11.060	MB
82587	385065.000	3635495.000	-11.020	MB
82588	385065.000	3635505.000	-11.010	MB
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82723	385065.000	3636855.000	-10.230	MB
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82725	385065.000	3636875.000	-10.060	MB
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82728	385065.000	3636905.000	-9.470	MB
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82730	385065.000	3636925.000	-9.110	MB
82731	385065.000	3636935.000	-9.230	MB
82732	385065.000	3636945.000	-9.010	MB
82733	385065.000	3636955.000	-8.890	MB
82734	385055.000	3634815.000	-11.500	MB
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82736	385055.000	3634835.000	-11.640	MB
82737	385055.000	3634845.000	-11.660	MB
82738	385055.000	3634855.000	-11.600	MB
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82740	385055.000	3634875.000	-11.540	MB
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82742	385055.000	3634895.000	-11.490	MB
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82748	385055.000	3634955.000	-11.540	MB
82749	385055.000	3634965.000	-11.460	MB
82750	385055.000	3634975.000	-11.420	MB
82751	385055.000	3634985.000	-11.620	MB

82752	385055.000	3634995.000	-11.620	MB
82753	385055.000	3635005.000	-11.610	MB
82754	385055.000	3635015.000	-11.600	MB
82755	385055.000	3635025.000	-11.480	MB
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82759	385055.000	3635065.000	-11.350	MB
82760	385055.000	3635075.000	-11.430	MB
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82762	385055.000	3635095.000	-11.390	MB
82763	385055.000	3635105.000	-11.320	MB
82764	385055.000	3635115.000	-11.330	MB
82765	385055.000	3635125.000	-11.280	MB
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82768	385055.000	3635155.000	-11.160	MB
82769	385055.000	3635165.000	-11.220	MB
82770	385055.000	3635175.000	-11.160	MB
82771	385055.000	3635185.000	-11.140	MB
82772	385055.000	3635195.000	-11.110	MB
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82821	385055.000	3635685.000	-9.330	MB
82822	385055.000	3635695.000	-9.240	MB
82823	385055.000	3635705.000	-9.200	MB
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82826	385055.000	3635735.000	-9.060	MB
82827	385055.000	3635745.000	-9.000	MB
82828	385055.000	3635755.000	-9.030	MB
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82882	385055.000	3636295.000	-8.710	MB
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82888	385055.000	3636355.000	-9.360	MB
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83045	385045.000	3635775.000	-8.060	MB
83046	385045.000	3635785.000	-8.160	MB
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83071	385045.000	3636035.000	-6.560	MB
83072	385045.000	3636045.000	-6.540	MB
83073	385045.000	3636055.000	-6.610	MB
83074	385045.000	3636065.000	-6.730	MB
83075	385045.000	3636075.000	-6.750	MB
83076	385045.000	3636085.000	-6.730	MB
83077	385045.000	3636095.000	-6.680	MB
83078	385045.000	3636105.000	-6.670	MB
83079	385045.000	3636115.000	-6.630	MB
83080	385045.000	3636125.000	-6.660	MB
83081	385045.000	3636135.000	-6.660	MB

83082	385045.000	3636145.000	-6.750	MB
83083	385045.000	3636155.000	-6.840	MB
83084	385045.000	3636165.000	-6.920	MB
83085	385045.000	3636175.000	-7.060	MB
83086	385045.000	3636185.000	-7.170	MB
83087	385045.000	3636195.000	-7.230	MB
83088	385045.000	3636205.000	-7.320	MB
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83092	385045.000	3636245.000	-7.800	MB
83093	385045.000	3636255.000	-7.960	MB
83094	385045.000	3636265.000	-8.030	MB
83095	385045.000	3636275.000	-7.800	MB
83096	385045.000	3636285.000	-7.590	MB
83097	385045.000	3636295.000	-7.700	MB
83098	385045.000	3636305.000	-7.880	MB
83099	385045.000	3636315.000	-7.910	MB
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83103	385045.000	3636355.000	-8.870	MB
83104	385045.000	3636365.000	-8.860	MB
83105	385045.000	3636375.000	-8.770	MB
83106	385045.000	3636385.000	-8.020	MB
83107	385045.000	3636395.000	-7.110	MB
83108	385045.000	3636405.000	-5.990	MB
83109	385045.000	3636415.000	-5.970	MB
83110	385045.000	3636425.000	-5.850	MB
83111	385045.000	3636435.000	-5.820	MB
83112	385045.000	3636445.000	-5.980	MB
83113	385045.000	3636455.000	-6.370	MB
83114	385045.000	3636465.000	-6.770	MB
83115	385045.000	3636475.000	-6.950	MB
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83128	385045.000	3636605.000	-10.880	MB
83129	385045.000	3636615.000	-10.980	MB
83130	385045.000	3636625.000	-10.990	MB
83131	385045.000	3636635.000	-10.810	MB
83132	385045.000	3636645.000	-10.810	MB
83133	385045.000	3636655.000	-11.010	MB
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83147	385045.000	3636795.000	-10.950	MB

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83149	385045.000	3636815.000	-10.830	MB
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83151	385045.000	3636835.000	-10.690	MB
83152	385045.000	3636845.000	-10.570	MB
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83187	385035.000	3635065.000	-9.630	MB
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83190	385035.000	3635095.000	-9.240	MB
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83192	385035.000	3635115.000	-9.150	MB
83193	385035.000	3635125.000	-9.070	MB
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83208	385035.000	3635275.000	-8.160	MB
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83211	385035.000	3635305.000	-8.010	MB
83212	385035.000	3635315.000	-7.940	MB
83213	385035.000	3635325.000	-7.800	MB

83214	385035.000	3635335.000	-7.860	MB
83215	385035.000	3635345.000	-7.910	MB
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83258	385035.000	3635775.000	-7.920	MB
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83274	385035.000	3635935.000	-6.760	MB
83275	385035.000	3635945.000	-6.320	MB
83276	385035.000	3635955.000	-5.990	MB
83277	385035.000	3635965.000	-5.940	MB
83278	385035.000	3635975.000	-5.970	MB
83279	385035.000	3635985.000	-5.970	MB

83280	385035.000	3635995.000	-6.120	MB
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83283	385035.000	3636025.000	-6.080	MB
83284	385035.000	3636035.000	-5.970	MB
83285	385035.000	3636045.000	-5.990	MB
83286	385035.000	3636055.000	-6.120	MB
83287	385035.000	3636065.000	-6.260	MB
83288	385035.000	3636075.000	-6.320	MB
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83324	385035.000	3636435.000	-5.580	MB
83325	385035.000	3636445.000	-5.590	MB
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83327	385035.000	3636465.000	-6.290	MB
83328	385035.000	3636475.000	-6.460	MB
83329	385035.000	3636485.000	-6.540	MB
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83335	385035.000	3636545.000	-7.140	MB
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83371	385035.000	3636905.000	-10.130	MB
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83408	385025.000	3635145.000	-7.770	MB
83409	385025.000	3635155.000	-7.740	MB
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83423	385025.000	3635295.000	-6.510	MB
83424	385025.000	3635305.000	-6.620	MB
83425	385025.000	3635315.000	-6.720	MB
83426	385025.000	3635325.000	-6.570	MB
83427	385025.000	3635335.000	-6.460	MB
83428	385025.000	3635345.000	-6.420	MB
83429	385025.000	3635355.000	-6.270	MB
83430	385025.000	3635365.000	-6.180	MB
83431	385025.000	3635375.000	-6.060	MB
83432	385025.000	3635385.000	-6.070	MB
83433	385025.000	3635395.000	-6.090	MB
83434	385025.000	3635405.000	-5.920	MB
83435	385025.000	3635415.000	-5.930	MB
83436	385025.000	3635425.000	-5.860	MB
83437	385025.000	3635435.000	-5.790	MB
83438	385025.000	3635445.000	-5.780	MB
83439	385025.000	3635455.000	-6.830	MB
83440	385025.000	3635465.000	-6.840	MB
83441	385025.000	3635475.000	-6.760	MB
83442	385025.000	3635485.000	-6.690	MB
83443	385025.000	3635495.000	-6.570	MB
83444	385025.000	3635505.000	-6.680	MB
83445	385025.000	3635515.000	-6.610	MB
83446	385025.000	3635525.000	-6.760	MB
83447	385025.000	3635535.000	-6.720	MB
83448	385025.000	3635545.000	-6.230	MB
83449	385025.000	3635555.000	-6.200	MB
83450	385025.000	3635565.000	-6.630	MB
83451	385025.000	3635575.000	-6.600	MB
83452	385025.000	3635585.000	-6.560	MB
83453	385025.000	3635595.000	-6.340	MB
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83455	385025.000	3635615.000	-6.360	MB
83456	385025.000	3635625.000	-6.290	MB
83457	385025.000	3635635.000	-6.580	MB
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83459	385025.000	3635655.000	-6.420	MB
83460	385025.000	3635665.000	-6.210	MB
83461	385025.000	3635675.000	-6.340	MB
83462	385025.000	3635685.000	-6.240	MB
83463	385025.000	3635695.000	-6.460	MB
83464	385025.000	3635705.000	-6.200	MB
83465	385025.000	3635715.000	-6.280	MB
83466	385025.000	3635725.000	-6.900	MB
83467	385025.000	3635735.000	-6.770	MB
83468	385025.000	3635745.000	-7.030	MB
83469	385025.000	3635755.000	-7.660	MB
83470	385025.000	3635765.000	-7.730	MB
83471	385025.000	3635775.000	-7.650	MB
83472	385025.000	3635785.000	-7.480	MB
83473	385025.000	3635795.000	-6.920	MB
83474	385025.000	3635805.000	-6.900	MB
83475	385025.000	3635815.000	-6.890	MB
83476	385025.000	3635825.000	-6.860	MB
83477	385025.000	3635835.000	-6.790	MB

83478	385025.000	3635845.000	-6.690	MB
83479	385025.000	3635855.000	-6.550	MB
83480	385025.000	3635865.000	-6.500	MB
83481	385025.000	3635875.000	-6.430	MB
83482	385025.000	3635885.000	-7.480	MB
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83507	385025.000	3636135.000	-5.890	MB
83508	385025.000	3636145.000	-5.860	MB
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83540	385025.000	3636465.000	-5.980	MB
83541	385025.000	3636475.000	-6.080	MB
83542	385025.000	3636485.000	-6.100	MB
83543	385025.000	3636495.000	-5.840	MB

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83545	385025.000	3636515.000	-5.890	MB
83546	385025.000	3636525.000	-5.800	MB
83547	385025.000	3636535.000	-5.700	MB
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83558	385025.000	3636645.000	-9.770	MB
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83561	385025.000	3636675.000	-10.350	MB
83562	385025.000	3636685.000	-10.430	MB
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83608	385015.000	3635005.000	-6.690	MB
83609	385015.000	3635015.000	-6.550	MB

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83714	385015.000	3636665.000	-9.990	MB
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83738	385015.000	3636905.000	-9.940	MB
83739	385015.000	3636915.000	-9.920	MB
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83741	385015.000	3636935.000	-9.920	MB

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83760	385005.000	3634985.000	-5.300	MB
83761	385005.000	3634995.000	-5.260	MB
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83765	385005.000	3635035.000	-5.320	MB
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83769	385005.000	3636215.000	-5.700	MB
83770	385005.000	3636225.000	-5.720	MB
83771	385005.000	3636235.000	-5.720	MB
83772	385005.000	3636245.000	-5.740	MB
83773	385005.000	3636255.000	-5.740	MB
83774	385005.000	3636265.000	-5.810	MB
83775	385005.000	3636275.000	-5.820	MB
83776	385005.000	3636285.000	-5.820	MB
83777	385005.000	3636295.000	-5.750	MB
83778	385005.000	3636305.000	-5.780	MB
83779	385005.000	3636315.000	-5.790	MB
83780	385005.000	3636325.000	-5.850	MB
83781	385005.000	3636335.000	-5.890	MB
83782	385005.000	3636345.000	-5.970	MB
83783	385005.000	3636355.000	-6.110	MB
83784	385005.000	3636365.000	-6.080	MB
83785	385005.000	3636375.000	-6.130	MB
83786	385005.000	3636385.000	-6.220	MB
83787	385005.000	3636395.000	-6.240	MB
83788	385005.000	3636405.000	-6.420	MB
83789	385005.000	3636415.000	-6.820	MB
83790	385005.000	3636425.000	-7.610	MB
83791	385005.000	3636435.000	-7.760	MB
83792	385005.000	3636445.000	-6.440	MB
83793	385005.000	3636455.000	-6.020	MB
83794	385005.000	3636465.000	-5.900	MB
83795	385005.000	3636475.000	-5.740	MB
83796	385005.000	3636485.000	-5.760	MB
83797	385005.000	3636495.000	-5.780	MB
83798	385005.000	3636505.000	-6.180	MB
83799	385005.000	3636515.000	-6.270	MB
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83801	385005.000	3636535.000	-5.260	MB
83802	385005.000	3636545.000	-5.190	MB
83803	385005.000	3636555.000	-5.260	MB
83804	385005.000	3636565.000	-5.360	MB
83805	385005.000	3636575.000	-5.370	MB
83806	385005.000	3636585.000	-5.510	MB
83807	385005.000	3636595.000	-6.040	MB

83808	385005.000	3636605.000	-6.970	MB
83809	385005.000	3636615.000	-7.650	MB
83810	385005.000	3636625.000	-8.230	MB
83811	385005.000	3636635.000	-8.580	MB
83812	385005.000	3636645.000	-9.040	MB
83813	385005.000	3636655.000	-9.370	MB
83814	385005.000	3636665.000	-9.570	MB
83815	385005.000	3636675.000	-9.630	MB
83816	385005.000	3636685.000	-9.610	MB
83817	385005.000	3636695.000	-9.560	MB
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83819	385005.000	3636715.000	-9.800	MB
83820	385005.000	3636725.000	-9.900	MB
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83822	385005.000	3636745.000	-10.270	MB
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83825	385005.000	3636775.000	-10.260	MB
83826	385005.000	3636785.000	-10.220	MB
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83833	385005.000	3636855.000	-10.160	MB
83834	385005.000	3636865.000	-10.110	MB
83835	385005.000	3636875.000	-10.020	MB
83836	385005.000	3636885.000	-9.910	MB
83837	385005.000	3636895.000	-9.850	MB
83838	385005.000	3636905.000	-9.770	MB
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83840	385005.000	3636925.000	-9.750	MB
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83846	384995.000	3636545.000	-5.380	MB
83847	384995.000	3636555.000	-5.430	MB
83848	384995.000	3636565.000	-5.420	MB
83849	384995.000	3636575.000	-5.380	MB
83850	384995.000	3636585.000	-5.440	MB
83851	384995.000	3636595.000	-5.850	MB
83852	384995.000	3636605.000	-6.410	MB
83853	384995.000	3636615.000	-7.020	MB
83854	384995.000	3636625.000	-7.390	MB
83855	384995.000	3636635.000	-7.810	MB
83856	384995.000	3636645.000	-8.210	MB
83857	384995.000	3636655.000	-8.430	MB
83858	384995.000	3636665.000	-8.600	MB
83859	384995.000	3636675.000	-8.760	MB
83860	384995.000	3636685.000	-8.950	MB
83861	384995.000	3636695.000	-9.060	MB
83862	384995.000	3636705.000	-9.170	MB
83863	384995.000	3636715.000	-9.130	MB
83864	384995.000	3636725.000	-9.300	MB
83865	384995.000	3636735.000	-9.550	MB
83866	384995.000	3636745.000	-9.650	MB
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83870	384995.000	3636785.000	-9.940	MB
83871	384995.000	3636795.000	-9.860	MB
83872	384995.000	3636805.000	-9.840	MB
83873	384995.000	3636815.000	-9.800	MB

83874	384995.000	3636825.000	-9.770	MB
83875	384995.000	3636835.000	-9.950	MB
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83889	384985.000	3636575.000	-5.420	MB
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83891	384985.000	3636595.000	-5.800	MB
83892	384985.000	3636605.000	-6.210	MB
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83894	384985.000	3636625.000	-6.760	MB
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83896	384985.000	3636645.000	-7.230	MB
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83922	384985.000	3636905.000	-9.450	MB
83923	384985.000	3636915.000	-9.470	MB
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83925	384985.000	3636935.000	-9.480	MB
83926	384975.000	3636585.000	-5.620	MB
83927	384975.000	3636595.000	-5.790	MB
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83938	384975.000	3636705.000	-7.970	MB
83939	384975.000	3636715.000	-8.250	MB

83940	384975.000	3636725.000	-8.400	MB
83941	384975.000	3636735.000	-8.460	MB
83942	384975.000	3636745.000	-8.490	MB
83943	384975.000	3636755.000	-8.500	MB
83944	384975.000	3636765.000	-8.590	MB
83945	384975.000	3636775.000	-8.820	MB
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83947	384975.000	3636795.000	-9.040	MB
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83959	384975.000	3636915.000	-9.340	MB
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83961	384975.000	3636935.000	-9.400	MB
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83963	384965.000	3636595.000	-5.890	MB
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83965	384965.000	3636615.000	-6.190	MB
83966	384965.000	3636625.000	-6.230	MB
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83971	384965.000	3636675.000	-6.610	MB
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83994	384965.000	3636905.000	-9.200	MB
83995	384965.000	3636915.000	-9.180	MB
83996	384965.000	3636925.000	-9.300	MB
83997	384965.000	3636935.000	-9.310	MB
83998	384955.000	3636585.000	-6.080	MB
83999	384955.000	3636595.000	-5.890	MB
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84003	384955.000	3636635.000	-5.970	MB
84004	384955.000	3636645.000	-6.010	MB
84005	384955.000	3636655.000	-6.070	MB

84006	384955.000	3636665.000	-6.190	MB
84007	384955.000	3636675.000	-6.320	MB
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84017	384955.000	3636775.000	-7.820	MB
84018	384955.000	3636785.000	-7.710	MB
84019	384955.000	3636795.000	-7.760	MB
84020	384955.000	3636805.000	-7.960	MB
84021	384955.000	3636815.000	-8.100	MB
84022	384955.000	3636825.000	-8.180	MB
84023	384955.000	3636835.000	-8.300	MB
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84048	384945.000	3636835.000	-7.860	MB
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84053	384935.000	3636675.000	-5.860	MB
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84065	384935.000	3636795.000	-6.810	MB
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84069	384935.000	3636835.000	-7.550	MB
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84071	384925.000	3636665.000	-5.760	MB

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84073	384925.000	3636685.000	-5.790	MB
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84075	384925.000	3636705.000	-5.960	MB
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84077	384925.000	3636725.000	-5.810	MB
84078	384925.000	3636735.000	-5.890	MB
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84080	384925.000	3636755.000	-6.070	MB
84081	384925.000	3636765.000	-6.480	MB
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84085	384925.000	3636805.000	-6.650	MB
84086	384925.000	3636815.000	-6.800	MB
84087	384925.000	3636825.000	-7.080	MB
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# **SECTION I**

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## **Tide Gage Corrections**

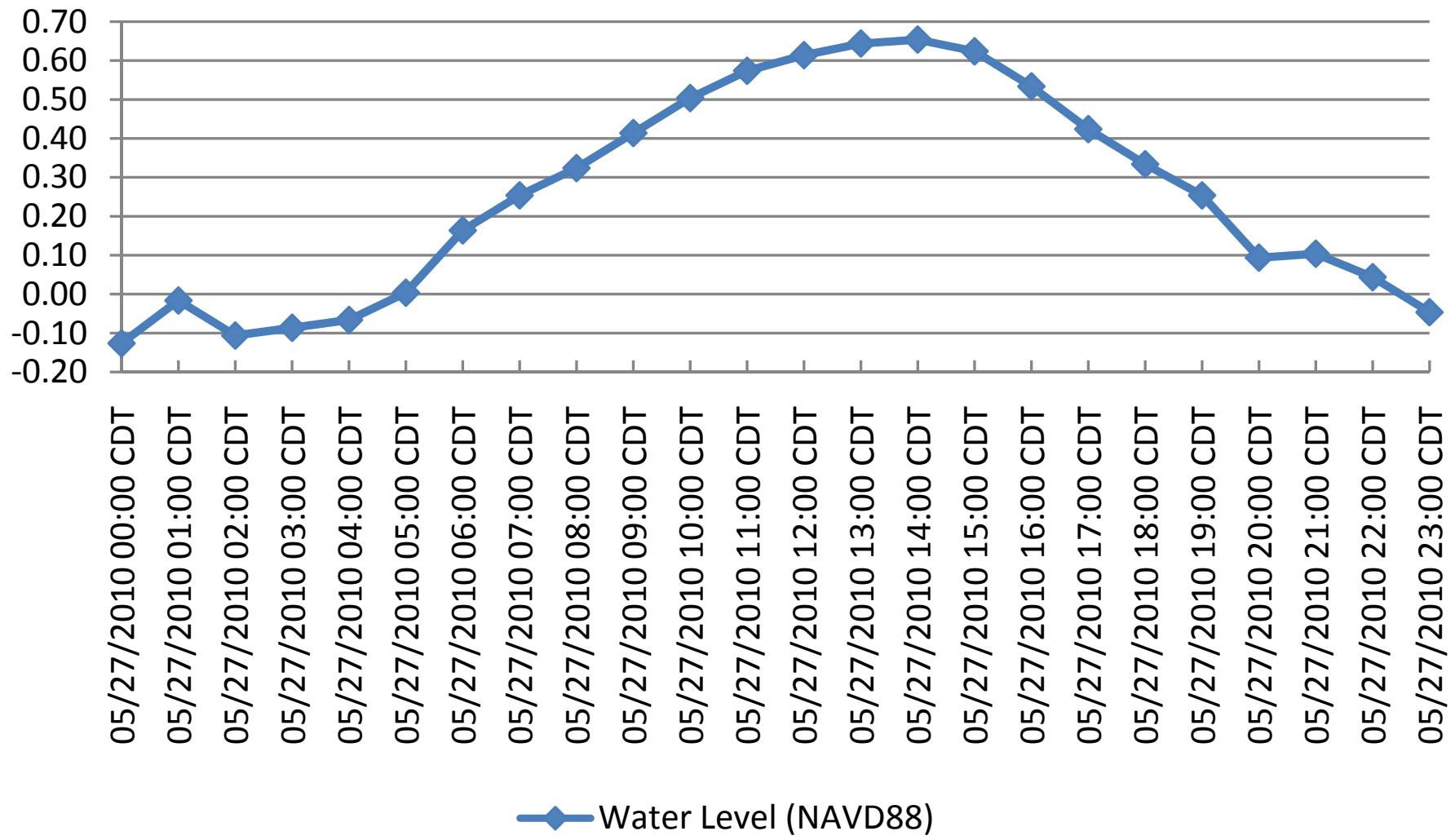
Conversion Factor Calculation  
Water Level Graph

## Clovelly to GIWW Shoreline Protection and Restoration Project

### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
05/28/2010 00:00 CDT	0.54		-0.29	
05/28/2010 01:00 CDT	0.49		-0.34	
05/28/2010 02:00 CDT	0.45		-0.38	
05/28/2010 03:00 CDT	0.39		-0.44	
05/28/2010 04:00 CDT	0.40		-0.43	
05/28/2010 05:00 CDT	0.40		-0.43	
05/28/2010 06:00 CDT	0.45		-0.38	
05/28/2010 07:00 CDT	0.56		-0.27	
05/28/2010 08:00 CDT	0.68		-0.15	
19	0.72	-0.06	-0.12	<b>-0.78</b>
32	0.74	-0.02	-0.09	<b>-0.76</b>
35	0.75	-0.13	-0.08	<b>-0.88</b>
05/28/2010 09:00 CDT	0.80		-0.03	
3	0.81	-0.05	-0.03	<b>-0.86</b>
37	0.87	-0.02	0.03	<b>-0.89</b>
05/28/2010 10:00 CDT	0.91		0.08	
05/28/2010 11:00 CDT	1.00		0.17	
05/28/2010 12:00 CDT	1.07		0.24	
05/28/2010 13:00 CDT	1.11		0.28	
05/28/2010 14:00 CDT	1.17		0.34	
05/28/2010 15:00 CDT	1.20		0.37	
05/28/2010 16:00 CDT	1.11		0.28	
05/28/2010 17:00 CDT	0.99		0.16	
05/28/2010 18:00 CDT	0.85		0.02	
05/28/2010 19:00 CDT	0.80		-0.03	
05/28/2010 20:00 CDT	0.68		-0.15	
05/28/2010 21:00 CDT	0.67		-0.16	
05/28/2010 22:00 CDT	0.59		-0.24	
05/28/2010 23:00 CDT	0.55		-0.28	
Mean Difference =				<b>-0.83</b>
Standard Deviation =				<b>0.06</b>

# Water Level (NAVD88)

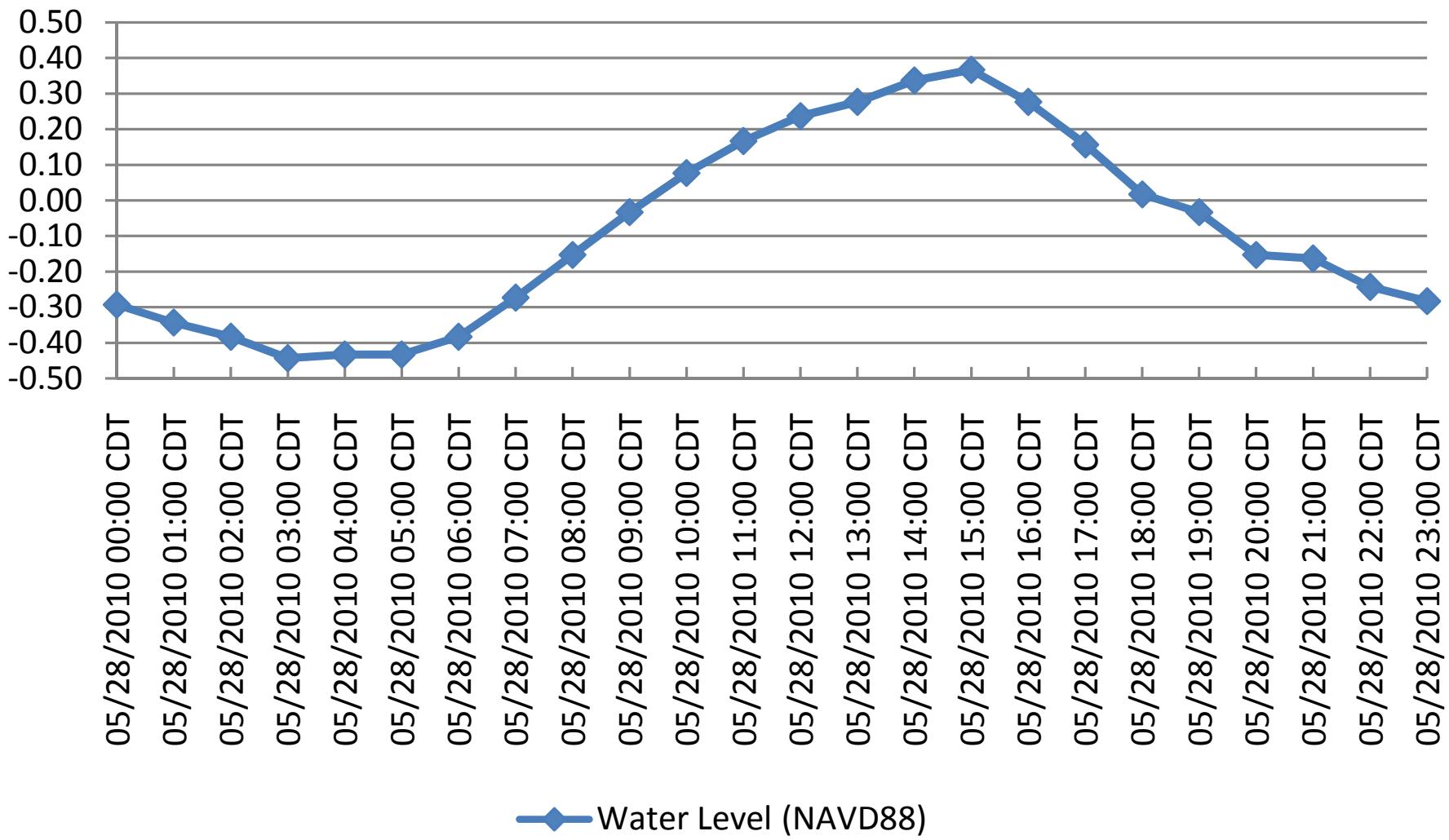


## Clovelly to GIWW Shoreline Protection and Restoration Project

### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
05/27/2010 00:00 CDT	0.52		-0.13	
05/27/2010 01:00 CDT	0.63		-0.02	
05/27/2010 02:00 CDT	0.54		-0.11	
05/27/2010 03:00 CDT	0.56		-0.09	
05/27/2010 04:00 CDT	0.58		-0.07	
05/27/2010 05:00 CDT	0.65		0.00	
05/27/2010 06:00 CDT	0.81		0.16	
05/27/2010 07:00 CDT	0.90		0.25	
05/27/2010 08:00 CDT	0.97		0.32	
05/27/2010 09:00 CDT	1.06		0.41	
05/27/2010 10:00 CDT	1.15		0.50	
05/27/2010 11:00 CDT	1.22		0.57	
05/27/2010 12:00 CDT	1.26		0.61	
05/27/2010 13:00 CDT	1.29		0.64	
52	1.30	0.65	0.65	-0.65
05/27/2010 14:00 CDT	1.30		0.65	
16	1.29	0.64	0.65	-0.65
35	1.28	0.72	0.64	-0.56
53	1.27	0.62	0.63	-0.65
05/27/2010 15:00 CDT	1.27		0.62	
24	1.23	0.52	0.59	-0.71
05/27/2010 16:00 CDT	1.18		0.53	
05/27/2010 17:00 CDT	1.07		0.42	
05/27/2010 18:00 CDT	0.98		0.33	
05/27/2010 19:00 CDT	0.90		0.25	
05/27/2010 20:00 CDT	0.74		0.09	
05/27/2010 21:00 CDT	0.75		0.10	
05/27/2010 22:00 CDT	0.69		0.04	
05/27/2010 23:00 CDT	0.60		-0.05	
Mean Difference =				-0.65
Standard Deviation =				0.05

# Water Level (NAVD88)

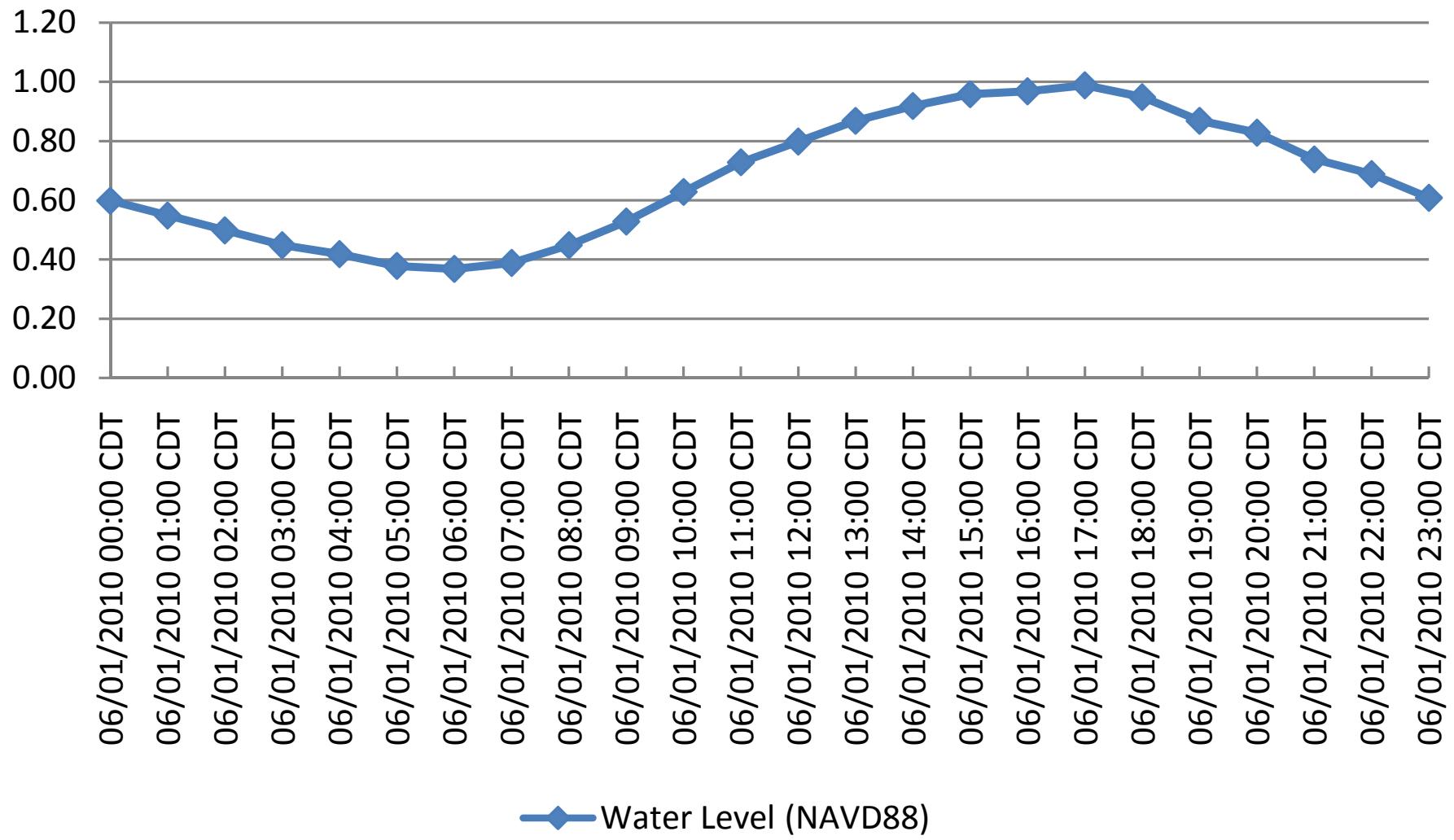


## Clovelly to GIWW Shoreline Protection and Restoration Project

### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
06/11/2010 00:00 CDT	0.78		0.32	
06/11/2010 01:00 CDT	0.82		0.36	
06/11/2010 02:00 CDT	0.93		0.47	
06/11/2010 03:00 CDT	1.07		0.61	
06/11/2010 04:00 CDT	1.10		0.64	
06/11/2010 05:00 CDT	1.15		0.69	
06/11/2010 06:00 CDT	1.28		0.82	
06/11/2010 07:00 CDT	1.38		0.92	
06/11/2010 08:00 CDT	1.43		0.97	
45	1.51	1.04	1.05	-0.47
49	1.51	1.08	1.05	-0.43
06/11/2010 09:00 CDT	1.53		1.07	
3	1.53	1.10	1.07	-0.43
11	1.54	1.08	1.08	-0.46
14	1.54	1.03	1.08	-0.51
30	1.55	1.08	1.09	-0.47
33	1.55	1.10	1.09	-0.45
06/11/2010 10:00 CDT	1.57		1.11	
06/11/2010 11:00 CDT	1.61		1.15	
06/11/2010 12:00 CDT	1.65		1.19	
06/11/2010 13:00 CDT	1.68		1.22	
06/11/2010 14:00 CDT	1.67		1.21	
06/11/2010 15:00 CDT	1.60		1.14	
06/11/2010 16:00 CDT	1.50		1.04	
06/11/2010 17:00 CDT	1.41		0.95	
06/11/2010 18:00 CDT	1.31		0.85	
06/11/2010 19:00 CDT	1.25		0.79	
06/11/2010 20:00 CDT	1.18		0.72	
06/11/2010 21:00 CDT	1.08		0.62	
06/11/2010 22:00 CDT	1.03		0.57	
06/11/2010 23:00 CDT	1.04		0.58	
Mean Difference =				<b>-0.46</b>
Standard Deviation =				<b>0.03</b>

## Water Level (NAVD88)



## Clovelly to GIWW Shoreline Protection and Restoration Project

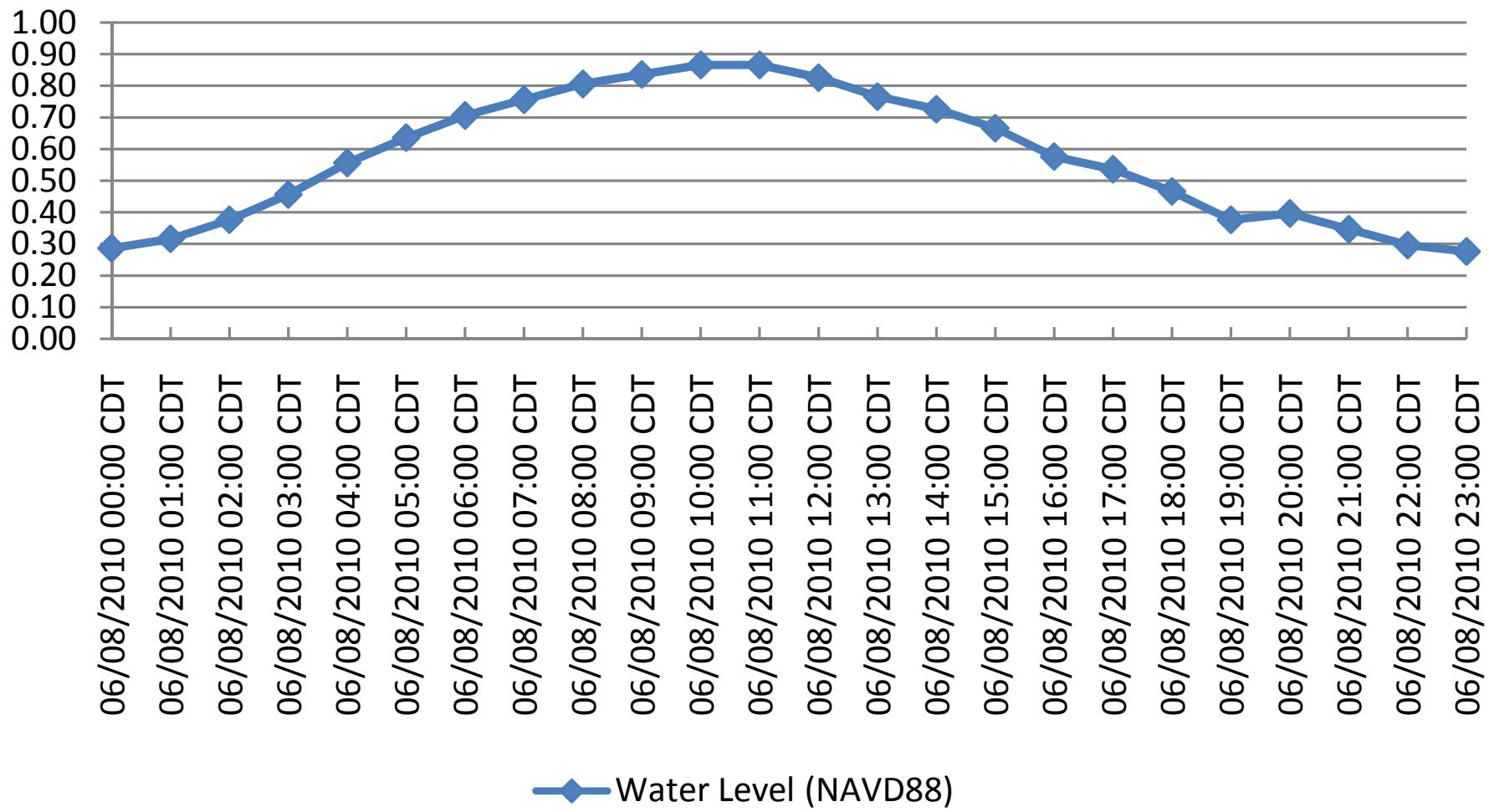
### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
06/10/2010 00:00 CDT	0.70		0.44	
06/10/2010 01:00 CDT	0.79		0.53	
06/10/2010 02:00 CDT	0.78		0.52	
06/10/2010 03:00 CDT	0.89		0.63	
06/10/2010 04:00 CDT	1.05		0.79	
06/10/2010 05:00 CDT	1.02		0.76	
06/10/2010 06:00 CDT	1.17		0.91	
06/10/2010 07:00 CDT	1.16		0.90	
06/10/2010 08:00 CDT	1.24		0.98	
06/10/2010 09:00 CDT	1.31		1.05	
7	1.32	<b>1.01</b>	1.06	-0.31
15	1.32	<b>1.02</b>	1.06	-0.30
24	1.33	0.77	1.07	
34	1.34	<b>1.18</b>	1.08	-0.16
43	1.35	<b>0.93</b>	1.09	-0.42
06/10/2010 10:00 CDT	1.36		1.10	
1	1.36	<b>0.99</b>	1.10	-0.37
13	1.37	0.81	1.11	
23	1.38	<b>1.16</b>	1.12	-0.22
06/10/2010 11:00 CDT	1.41		1.15	
26	1.43	0.97	1.17	
41	1.44	0.54	1.18	
06/10/2010 12:00 CDT	1.45		1.19	
48	1.43	<b>1.30</b>	1.17	-0.13
52	1.43	<b>1.19</b>	1.17	-0.24
55	1.43	<b>1.10</b>	1.17	-0.33
58	1.43	<b>1.33</b>	1.17	-0.10
06/10/2010 13:00 CDT	1.43		1.17	
06/10/2010 14:00 CDT	1.45		1.19	
20	1.40	<b>1.11</b>	1.14	-0.29
22	1.40	<b>1.09</b>	1.14	-0.31
24	1.39	<b>1.08</b>	1.13	-0.31
54	1.32	1.22	1.06	
06/10/2010 15:00 CDT	1.30		1.04	
9	1.29	<b>1.14</b>	1.03	-0.15
06/10/2010 16:00 CDT	1.24		0.98	
06/10/2010 17:00 CDT	1.17		0.91	
06/10/2010 18:00 CDT	1.11		0.85	
06/10/2010 19:00 CDT	1.00		0.74	
06/10/2010 20:00 CDT	0.94		0.68	
06/10/2010 21:00 CDT	0.81		0.55	
06/10/2010 22:00 CDT	0.84		0.58	
06/10/2010 23:00 CDT	0.76		0.50	

Mean Difference = **-0.26**

Standard Deviation = **0.09**

# Water Level (NAVD88)



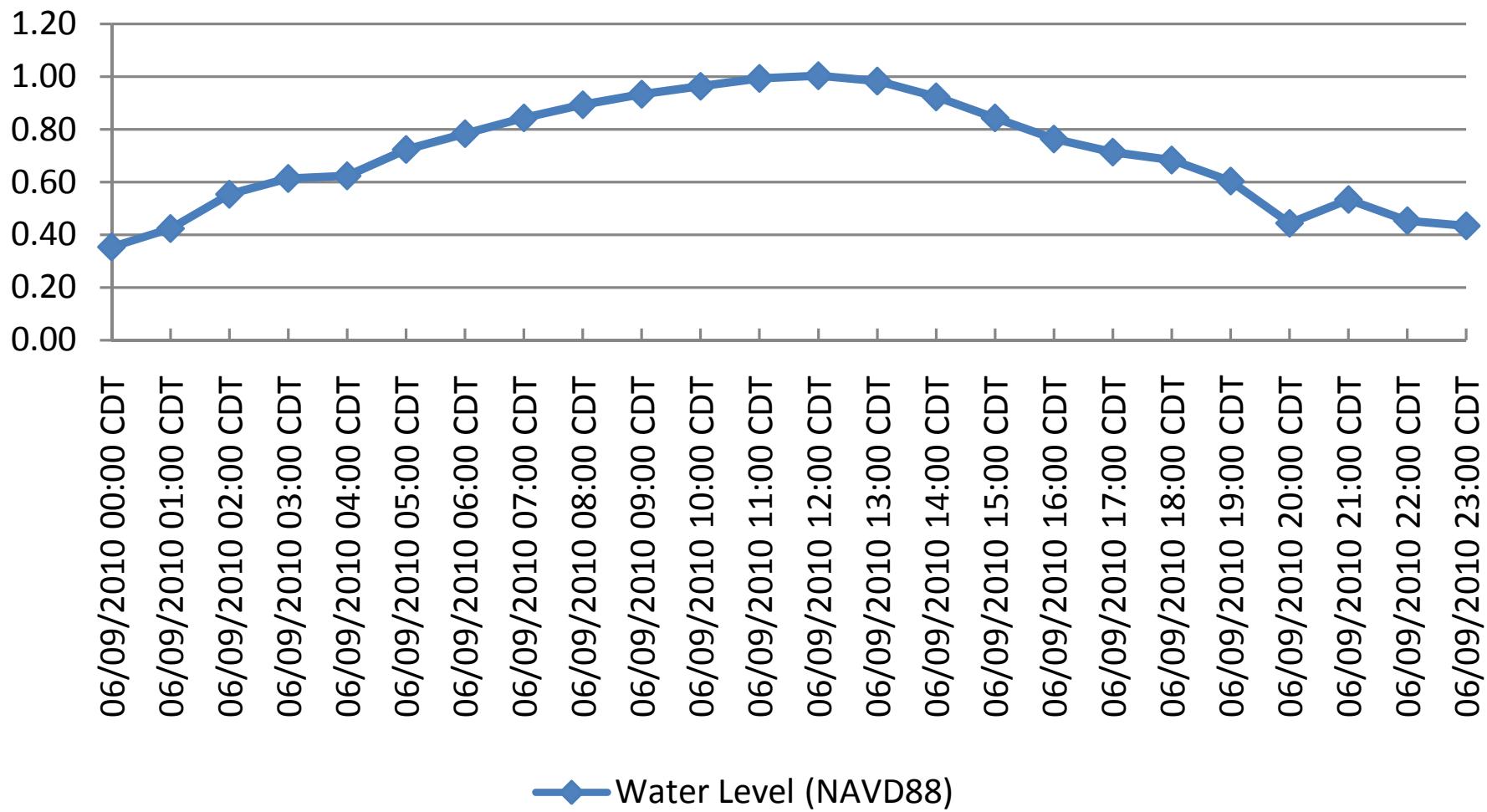
## Clovelly to GIWW Shoreline Protection and Restoration Project

### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
06/09/2010 00:00 CDT	0.63		0.35	
06/09/2010 01:00 CDT	0.70		0.42	
06/09/2010 02:00 CDT	0.83		0.55	
06/09/2010 03:00 CDT	0.89		0.61	
06/09/2010 04:00 CDT	0.90		0.62	
06/09/2010 05:00 CDT	1.00		0.72	
06/09/2010 06:00 CDT	1.06		0.78	
06/09/2010 07:00 CDT	1.12		0.84	
06/09/2010 08:00 CDT	1.17		0.89	
52	1.20	<b>0.96</b>	0.93	-0.24
54	1.21	<b>0.93</b>	0.93	-0.28
56	1.21	<b>0.94</b>	0.93	-0.27
57	1.21	<b>0.86</b>	0.93	-0.35
06/09/2010 09:00 CDT	1.21	<b>0.87</b>	0.93	-0.34
3	1.21	<b>0.86</b>	0.94	-0.35
5	1.21	0.85	0.94	
10	1.22	0.84	0.94	
15	1.22	<b>0.90</b>	0.94	-0.32
23	1.22	<b>0.90</b>	0.95	-0.32
06/09/2010 10:00 CDT	1.24		0.96	
5	1.24	<b>1.03</b>	0.97	-0.21
10	1.25	<b>1.00</b>	0.97	-0.25
14	1.25	<b>0.97</b>	0.97	-0.28
21	1.25	0.90	0.97	
06/09/2010 11:00 CDT	1.27		0.99	
06/09/2010 12:00 CDT	1.28		1.00	
06/09/2010 13:00 CDT	1.26		0.98	
06/09/2010 14:00 CDT	1.20		0.92	
35	1.15	<b>0.90</b>	0.88	-0.25
45	1.14	<b>0.91</b>	0.86	-0.23
57	1.12	<b>0.94</b>	0.85	-0.18
06/09/2010 15:00 CDT	1.12		0.84	
06/09/2010 16:00 CDT	1.04		0.76	
06/09/2010 17:00 CDT	0.99		0.71	
06/09/2010 18:00 CDT	0.96		0.68	
06/09/2010 19:00 CDT	0.88		0.60	
06/09/2010 20:00 CDT	0.72		0.44	
06/09/2010 21:00 CDT	0.81		0.53	
06/09/2010 22:00 CDT	0.73		0.45	
06/09/2010 23:00 CDT	0.71		0.43	

Mean Difference = **-0.28**  
 Standard Deviation = **0.05**

# Water Level (NAVD88)



## Clovelly to GIWW Shoreline Protection and Restoration Project

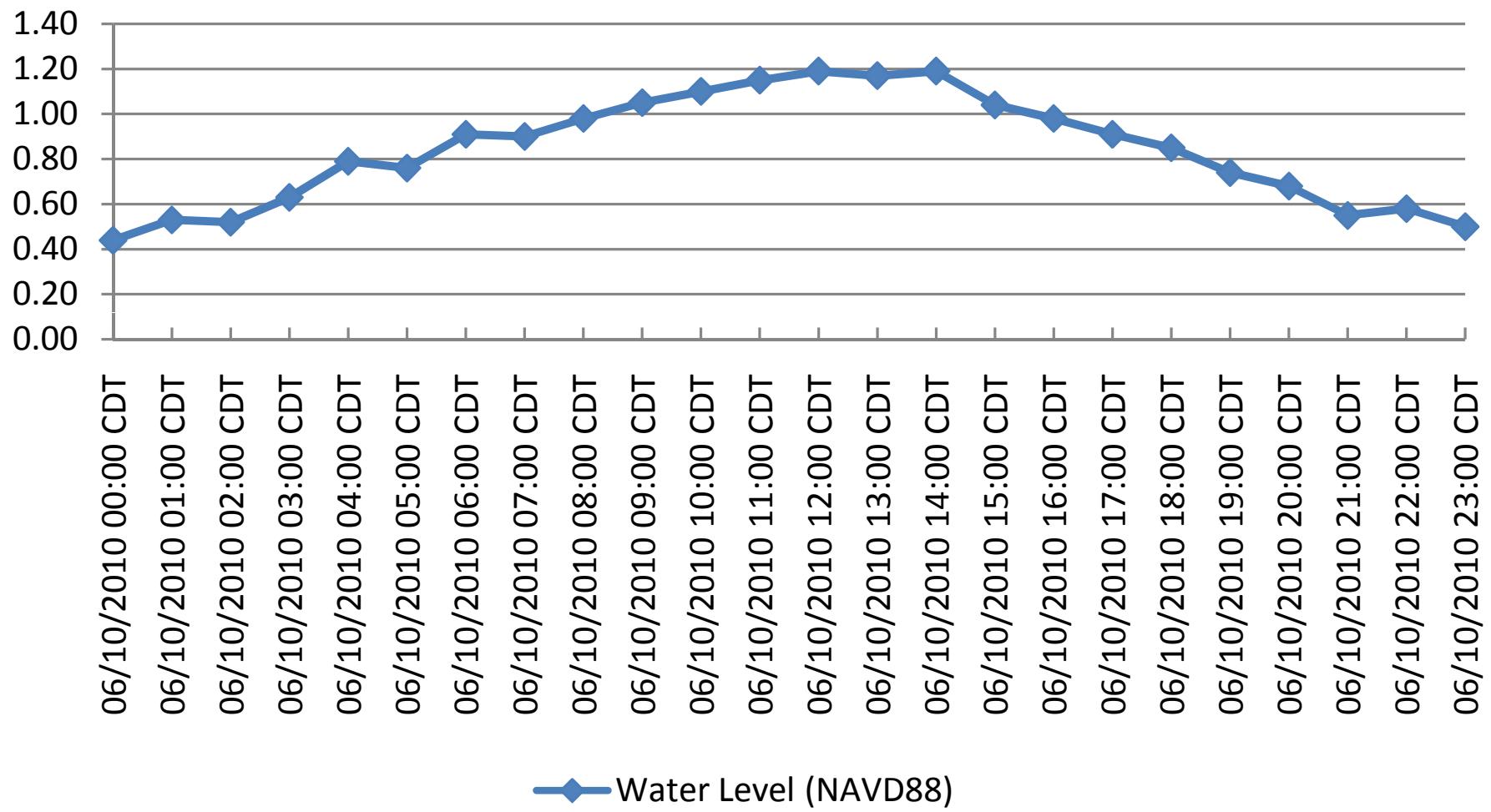
### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
06/08/2010 00:00 CDT	0.60		0.29	
06/08/2010 01:00 CDT	0.63		0.32	
06/08/2010 02:00 CDT	0.69		0.38	
06/08/2010 03:00 CDT	0.77		0.46	
06/08/2010 04:00 CDT	0.87		0.56	
06/08/2010 05:00 CDT	0.95		0.64	
06/08/2010 06:00 CDT	1.02		0.71	
06/08/2010 07:00 CDT	1.07		0.76	
06/08/2010 08:00 CDT	1.12		0.81	
06/08/2010 09:00 CDT	1.15		0.84	
8	1.15	<b>0.90</b>	0.84	-0.25
23	1.16	<b>0.77</b>	0.85	-0.39
28	1.16	<b>0.75</b>	0.85	-0.41
38	1.17	<b>0.85</b>	0.86	-0.32
06/08/2010 10:00 CDT	1.18		0.87	
2	1.18	1.38	0.87	
22	1.18	1.03	0.87	
45	1.18	<b>0.98</b>	0.87	-0.20
06/08/2010 11:00 CDT	1.18		0.87	
5	1.18	<b>0.96</b>	0.86	-0.22
20	1.17	<b>0.85</b>	0.85	-0.32
29	1.16	<b>0.99</b>	0.85	-0.17
42	1.15	<b>0.99</b>	0.84	-0.16
06/08/2010 12:00 CDT	1.14		0.83	
43	1.10	<b>0.59</b>	0.78	-0.51
50	1.09	<b>0.72</b>	0.78	-0.37
06/08/2010 13:00 CDT	1.08		0.77	
13	1.07	<b>0.64</b>	0.76	-0.43
21	1.07	<b>0.70</b>	0.75	-0.37
28	1.06	<b>0.79</b>	0.75	-0.27
36	1.06	0.91	0.74	
43	1.05	0.14	0.74	
06/08/2010 14:00 CDT	1.04		0.73	
06/08/2010 15:00 CDT	0.98		0.67	
06/08/2010 16:00 CDT	0.89		0.58	
06/08/2010 17:00 CDT	0.85		0.54	
06/08/2010 18:00 CDT	0.78		0.47	
06/08/2010 19:00 CDT	0.69		0.38	
06/08/2010 20:00 CDT	0.71		0.40	
06/08/2010 21:00 CDT	0.66		0.35	
06/08/2010 22:00 CDT	0.61		0.30	
06/08/2010 23:00 CDT	0.59		0.28	

Mean Difference = **-0.31**

Standard Deviation = **0.11**

## Water Level (NAVD88)

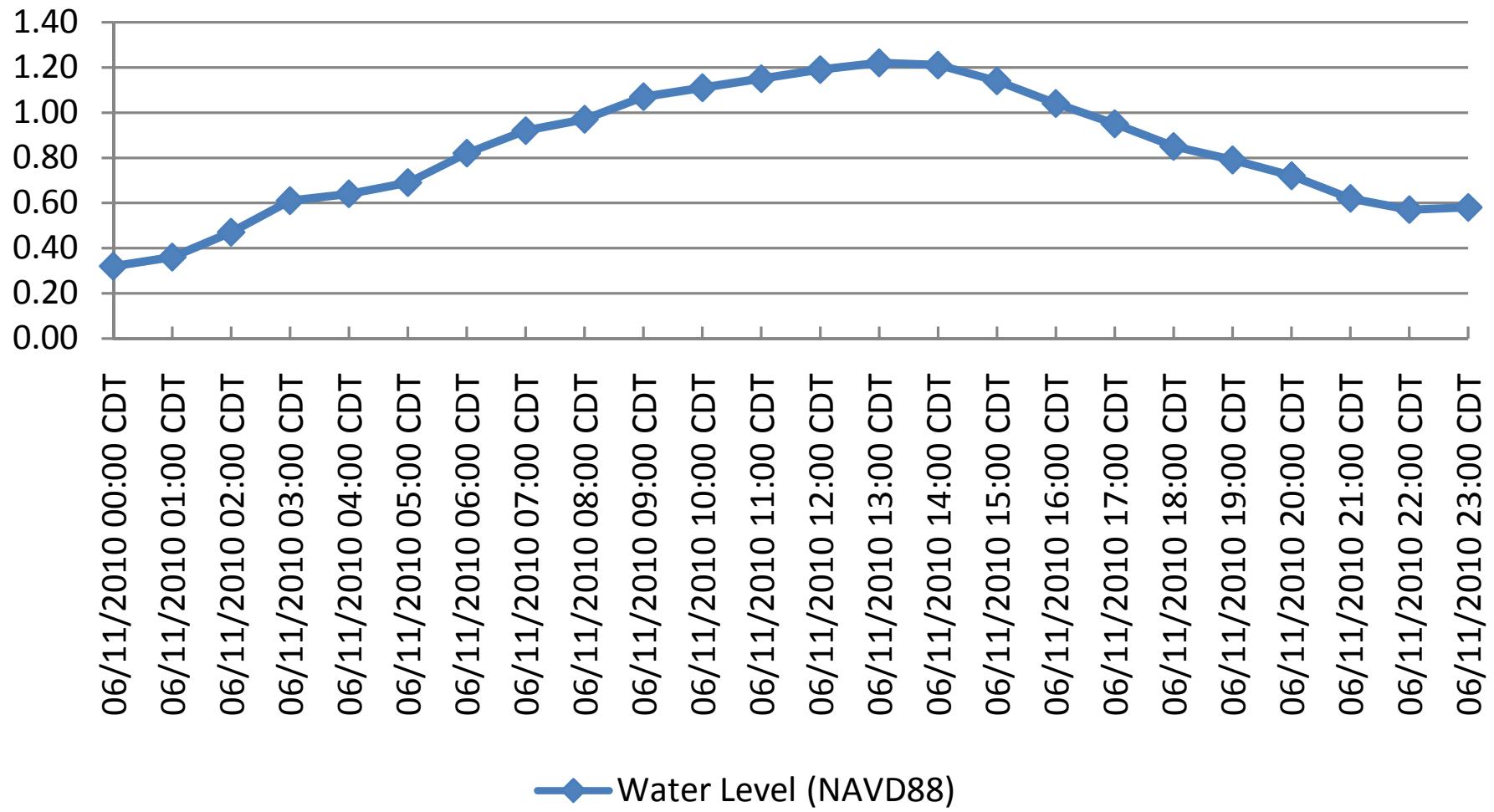


## Clovelly to GIWW Shoreline Protection and Restoration Project

### USGS Gage 07380335 Little Lake Conversion to NAVD88

DATE/TIME	RAW GAGE ELEV NGVD	RTK SHOTS NAVD88	ADJ.GAGE NAVD88	Difference NAVD88
06/01/2010 00:00 CDT	0.83		0.60	
06/01/2010 01:00 CDT	0.78		0.55	
06/01/2010 02:00 CDT	0.73		0.50	
06/01/2010 03:00 CDT	0.68		0.45	
06/01/2010 04:00 CDT	0.65		0.42	
06/01/2010 05:00 CDT	0.61		0.38	
06/01/2010 06:00 CDT	0.60		0.37	
06/01/2010 07:00 CDT	0.62		0.39	
06/01/2010 08:00 CDT	0.68		0.45	
06/01/2010 09:00 CDT	0.76		0.53	
06/01/2010 10:00 CDT	0.86		0.63	
06/01/2010 11:00 CDT	0.96		0.73	
06/01/2010 12:00 CDT	1.03		0.80	
29	1.06	0.22	0.83	
06/01/2010 13:00 CDT	1.10	<b>0.83</b>	0.87	-0.27
21	1.12	<b>0.93</b>	0.89	-0.19
06/01/2010 14:00 CDT	1.15		0.92	
13	1.16	1.01	0.93	
24	1.17	1.14	0.93	
41	1.18	<b>0.94</b>	0.95	-0.24
06/01/2010 15:00 CDT	1.19		0.96	
06/01/2010 16:00 CDT	1.20		0.97	
06/01/2010 17:00 CDT	1.22		0.99	
06/01/2010 18:00 CDT	1.18		0.95	
06/01/2010 19:00 CDT	1.10		0.87	
06/01/2010 20:00 CDT	1.06		0.83	
06/01/2010 21:00 CDT	0.97		0.74	
06/01/2010 22:00 CDT	0.92		0.69	
06/01/2010 23:00 CDT	0.84		0.61	
Mean Difference =				<b>-0.23</b>
Standard Deviation =				<b>0.04</b>

# Water Level (NAVD88)



## **SECTION J**

---

### **Fieldnotes**

51 2-58 156 MILES

5:30 ARRIVE @ OFFICE

7:00 DEPART OFFICE

10:30 ARRIVE @ DUCK

11:22 BASE @ ROAD-SM-01

11:30 START SURVEY

4:00 PICK UP UP BASE

4:30 ARRIVE @ DUCK

4:30 IN TOWNE TO HOTEL

5:00 ARRIVE @ HOTEL

5:30 EAT DINNER ON CHARLIE

J. DESVILLER

H. OLIVIER

S. ROMEO

B. STEVENS

OCPR  
Choueney Restoration

LITTLE LAKE

2010-0083

NAD 83 LA SOUTH

TBD 100282 STRIHA

JCLS BOOK NO. 557

Fujoco

Fujoco

JCLS BOOK NO. 557

STRUCTURE 14A

52

1001-1046

1047-1083

CN

1084-1115

MARSH

1116-1144

LITTLE LAKE

1150-1182

1150 - 1182	TRANSECT 1150 - 1113
1116 - 1144	TRANSECT 1116 - 1111
1084 - 1115	TRANSECT 1084 - 1091
1047 - 1083	TRANSECT 1047 - 107
1001 - 1046	TRANSECT 1001 - 1005
HR = 11.562	
1000 CHK ONE	SA02-SM-02
BASE 0	SA02-SM-01
Y -	384574.42
X -	3634114.36
ELEV -	0.82

53

1 - 25 165 MILES

53

5/10/10

5:30 LOCATING EQUIP.

6:00 DEPART HOTEL

6:40 ARRIVED @ DOCK

7:27 BASED @ BAYON-SMALL

THIS SURVEY

END SURVEY

10:00 ARRIVED @ DOCK

11:00 IN ROUTE TO OFFICE

1:30 ARRIVED @ OFFICE

J. DELVILLER

H. OLIVIER

S. RANGIRO

B. STEVENS

GENERAL RESTORATION

LITTLE LAKE

GARD - CAMP

MAP 83 LA SOUTH

TRD LORAIN STRIHA

JCLS BOOK NO. 557



JCLS BOOK NO. 557



**55**

1-58 286 miles

- 7:30 ARRIVED @ OFFICE  
6:30 DEPART OFFICE  
9:30 ARRIVED @ DOCK  
10:17 BASE @ BAON - SM-07  
10:30 START SURVEY  
3:30 PICASSO W/ BASE  
4:00 @ DOCK  
4:30 IN 2 OWN TO FIND HOTEL  
7:30 MARBLE TO FIND ACCOMMODATION  
8:30 ARRIVED @ OFFICE

**55**

6/1/10

J. DELILLER

H. OLIVIER

S. RONERO

B. STEVENS

OCTOPUS  
CLONEY RESTAURANT

LITTLE LAKE

2010-08-26

NAD 83 LA SOUTH

JBD 00882 LAKE 26

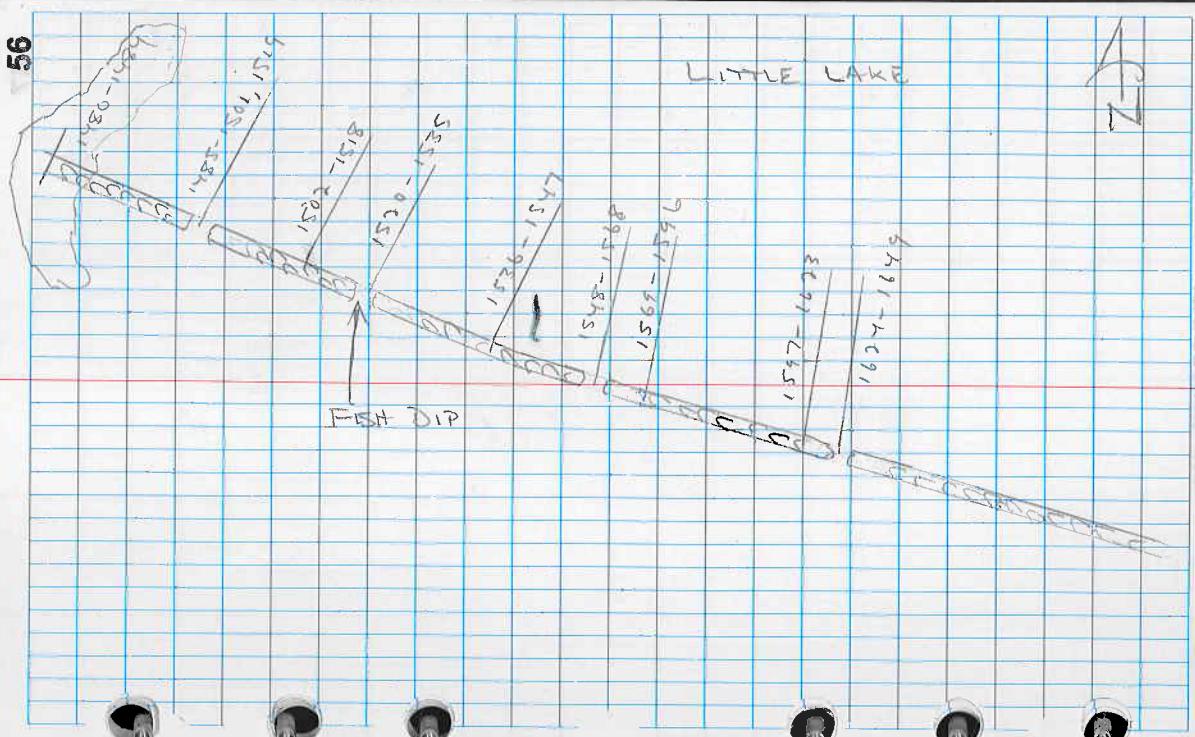


JCLS BOOK NO. 557



JCLS BOOK NO. 557

56



56

BASE @ BAIRN-SM-01	
X-	361933.76
X-	3430318.10
ELEV -	8.32

JCLS BOOK NO. 557

JCLS BOOK NO. 557

57

1 - 58 198 MILES

5:00 ARRIVE @ OFFICE  
5:30 DEPART OFFICE  
7:30 ARRIVE @ DOCK  
STANDING BY ON WEATHER  
9:39 RAISE @ BAND - SOON - ON  
10:00 STARBOARD MOTOR OUT OF GAS  
HEADED TO TRUCK  
10:30 STANDING BY ON WEATHER  
11:00 PICKING UP BASE DUE TO  
BAD WEATHER  
1:00 TWO ROUTE TO HOTEL  
2:00 ARRIVE @ HOTEL

T. DEMAILLER  
H. OLIVIER  
S. ROMERO  
B. STEVENS

OCFR  
CLOVELLY RESTORATION  
LITTLE LAKE  
SOON - OREGON

LAND 53 1A SOUTH  
NO FILE  
JCLS BOOK NO. 557



58

1-58 220 MILES

5:30 DEPART HATTEL  
7:00 ARRIVE P. DOCK  
7:30 PORT MOTOR DRAFT START  
WATER IN LAS  
7:30 TO TRAVEL TO HOME IN TO  
CHECK OUT  
11:30 TO ZONE TO OFFICE  
1:30 ARRIVED OFFICE

58

6/3/10

J. DUNNELL  
H. OLIVIER  
S. ROMERO  
B. STEVENS

CLOVELY RESTORATION  
LITTLE LAKES  
5010-0488

NCPR

NAD 27 LA SOUTH  
NO FILE

JCLS BOOK NO. 557



JCLS BOOK NO. 557

**59** L - 58 204 MILES

5:00 DEPART OFFICE  
8:00 ARRIVE @ DOCK  
8:51 BASE @ RAOZ-SM-02  
9:15 START SURVEY  
3:12 FINISH UP BASE  
3:35 ARRIVE @ DOCK  
4:00 IN ROUTE TO HOTEL  
6:00 ARRIVE @ HOTEL

T. DEVILLEZ  
H. OLIVIER  
C. ROMERO  
A. MELANGON

OP PR

Chadbury RESTAURANT

LITTLE LAKE

900-0887

NATL AT LA SIGHT

TBD-100851 LAKERUN

JCLS BOOK NO. 557



60

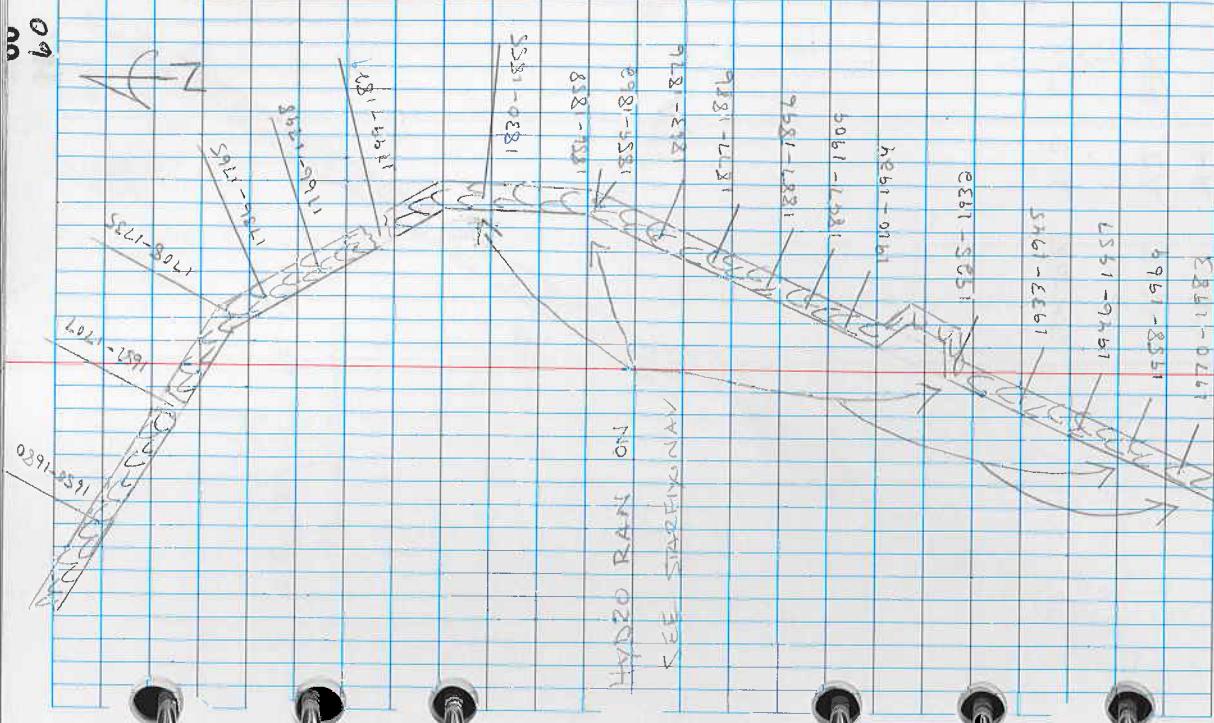
1970-1983	TRANSECT	203-304
1985-1969	TRANSECT	901-200
1946-1957	T2 TRANSECT	149-200
1933-1945	TRANSECT	197-198
1985-1932	TRANSECT	195-196
1910-1984	TRANSECT	193-194
1871-1969	TRANSECT	191-192
1887-1850	TRANSECT	189-190
1877-1880	TRANSECT	187-188
1863-1876	TRANSECT	185-186
1859-1862	TRANSECT	183-184
1856-1828	TRANSECT	180-183
1830-1855	TRANSECT	180-181
1796-1829	TRANSECT	178-179
1766-1798	TRANSECT	176-177
1736-1765	TRANSECT	174-175
1708-1735	TRANSECT	172-173
1681-1707	TRANSECT	170-171
1650-1680	TRANSECT	168-169
	H2 =	10.60

RASZI @ RAOJ - Sman  
Y- 361933, 76  
X- 363031, 60  
ELEV- 0.32

JCLS BOOK NO. 557



JCLS BOOK NO. 557



JCLS BOOK NO. 557



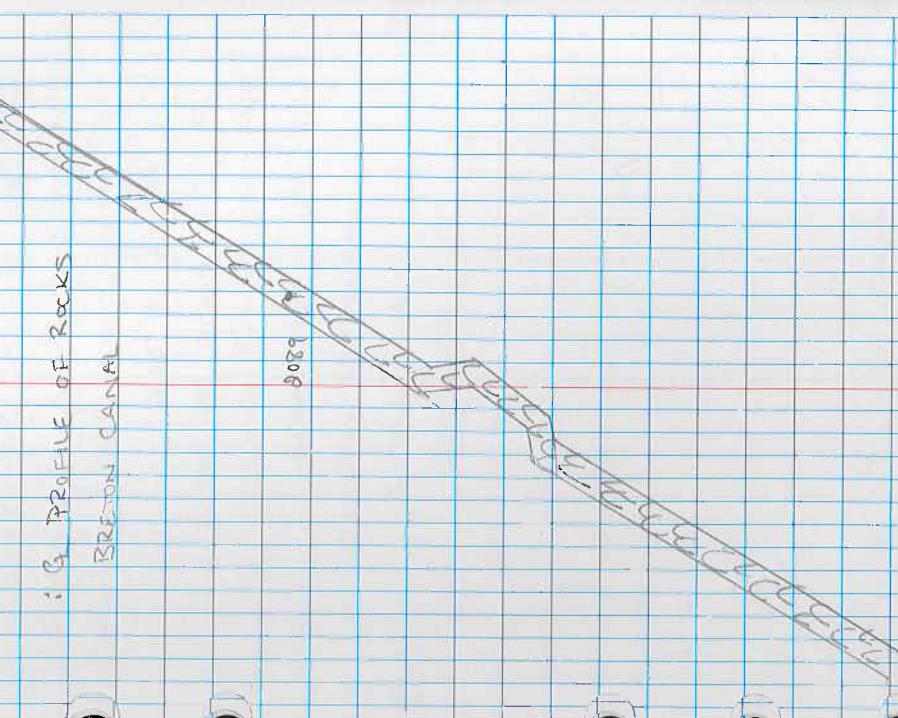
61

1984



1984 PROFILE OF ROCKS  
BRETON CANAL

1989



JCLS BOOK NO. 557

Fuji

1984 C/L ROCKS



1984 C/L ROCKS

HR = 6.60

JCLS BOOK NO. 557

Fuji

62

1 - 58 90 miles

6:00 DEPART HOTEL

8:00 ARRIVE @ DOCK

8:40 TAKE @ RAIL-SM-GO

9:00 START SURVEY

3:30 PIC KINGS WIP EAST

T. DEVILLER

H. OLIVIER

S. ROMERO

A. MELANCON

4:00 ARRIVE @ DARK

4:30 TURN ROUTE TO HOTEL

5:30 ARRIVE @ HOTEL

6:00 SQUAD ON CHARGE

CLOVELLY RESTORATION

LITTLE LAKE

2010-0682

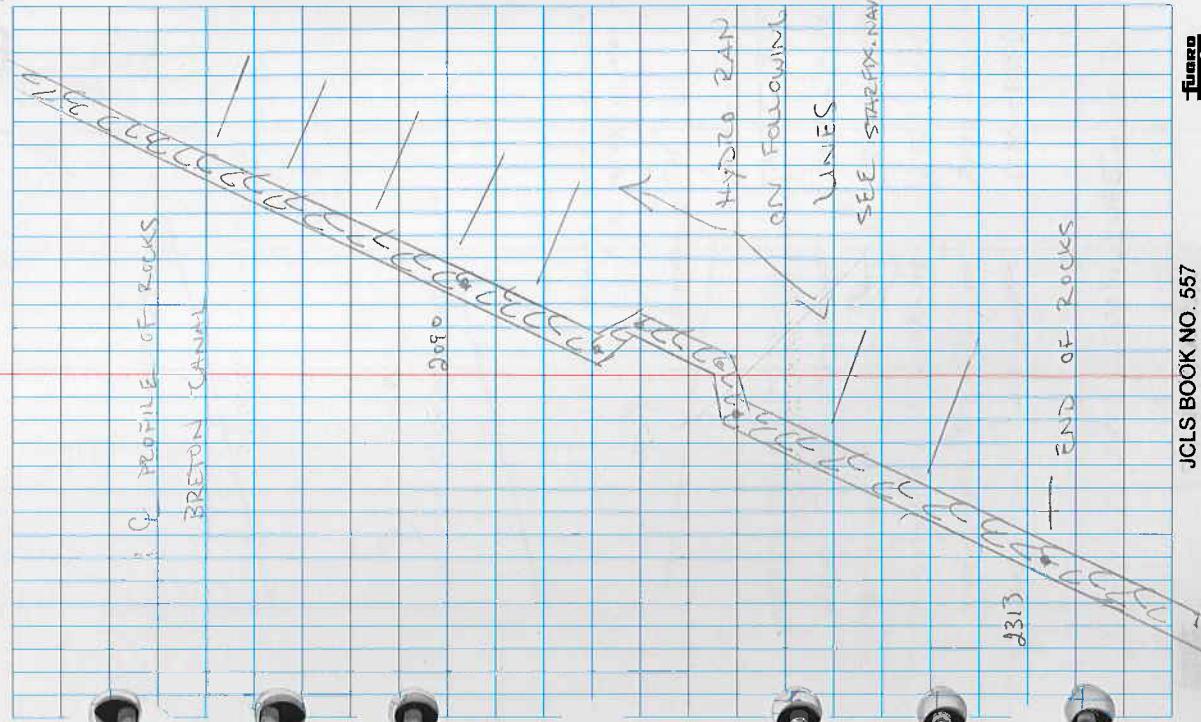
NAD 27 LA SOUTH

JCLS BOOK NO. 557

JCLS BOOK NO. 557



63



JCLS BOOK NO. 557

Turbo

63

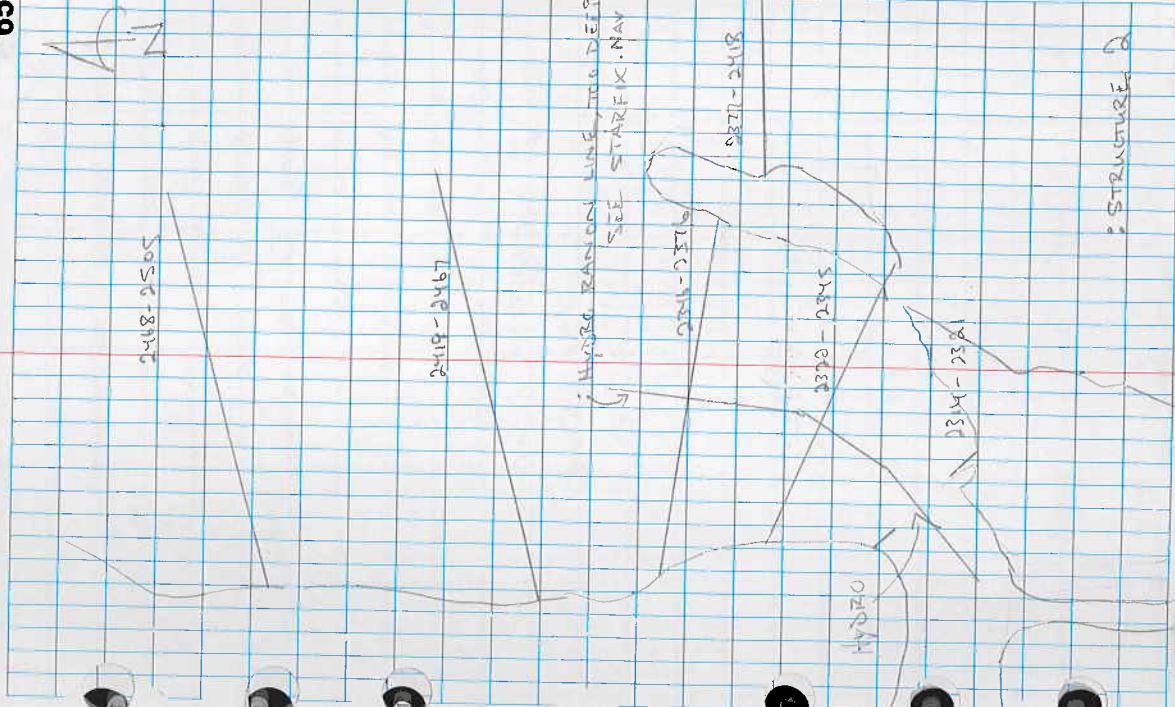
2513 ↑ G PROFILE OF ROCKS  
2650 H.R. = 1.60

BASZ P RAO2 - Sm - O2  
Y - 361633.76  
X - 3630318.60

ELEV - 2.32  
JCLS BOOK NO. 557

Turbo

65



HR = 10.60

2448 - 2505	TRANSECT	4037 - 4034
2419 - 2467	TRANSECT	4035 - 4036
2377 - 2418	TRANSECT	4037 - 4038
2346 - 2371L	TRANSECT	4039 - 4040
2332 - 2345	TRANSECT	4041 - 4042
2314 - 2321	TRANSECT	4043 - 4044

TBD 100882 STR 24

STRUCTURE  
60

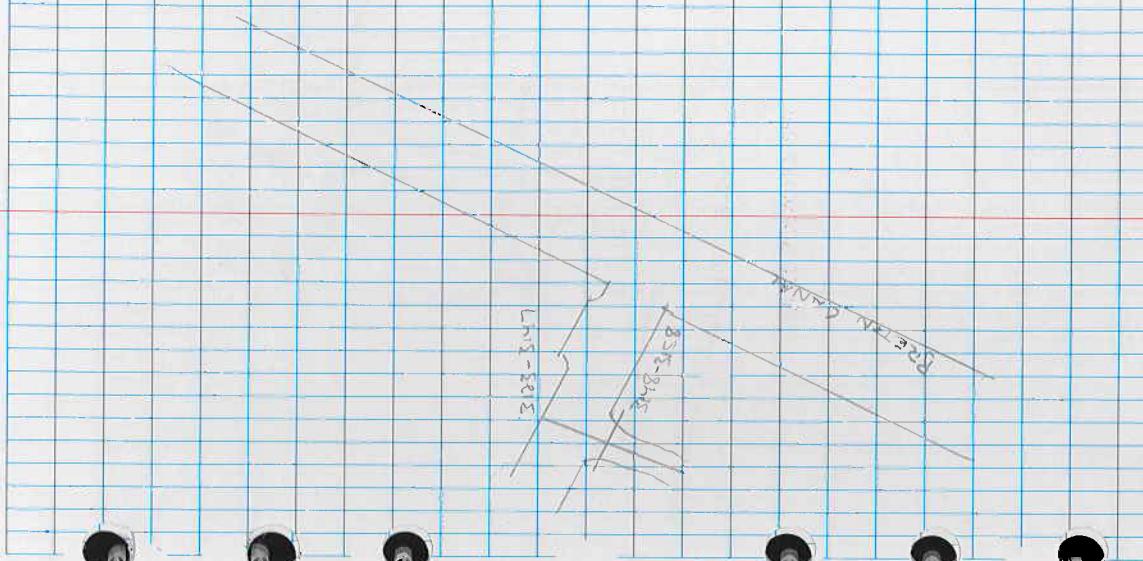
JCLS BOOK NO. 557

JCLS BOOK NO. 557





ACN

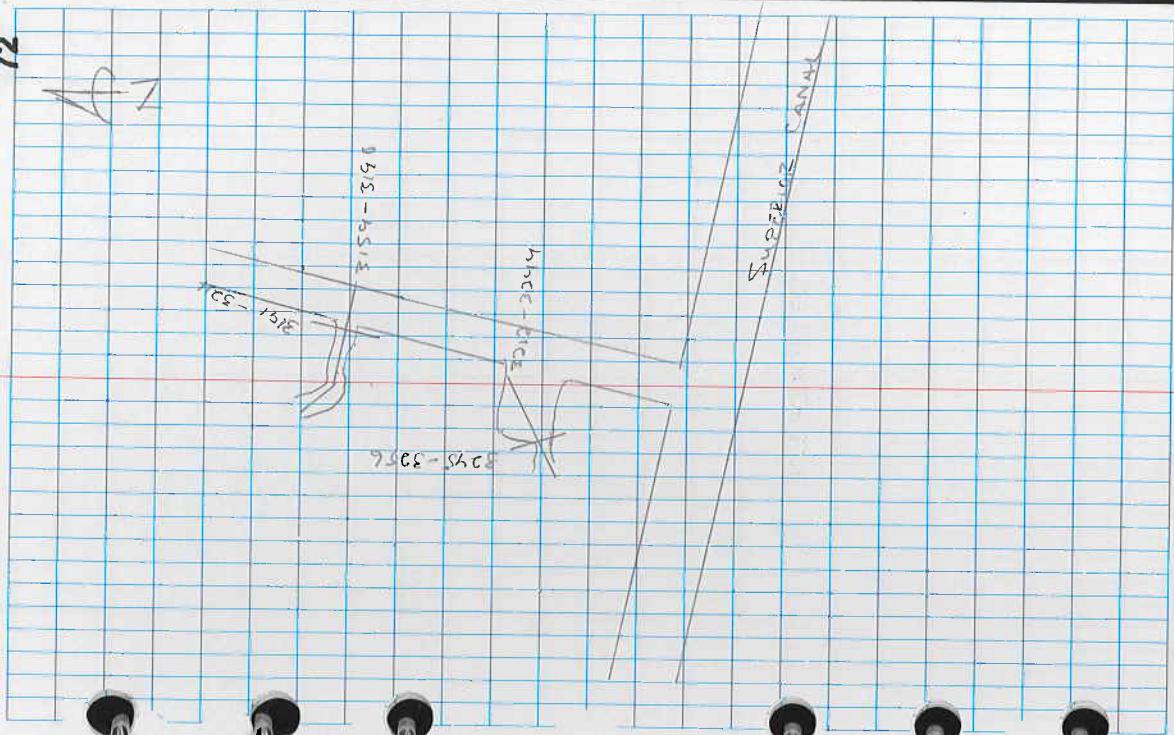


$$HR = 10:60$$

3245 - 3256	TRANSECT	5024 - 5055
3213 - 3241	TRANSECT	5011 - 5083
3191 - 3211	TRANSECT	5014 - 5090
3154 - 3196	TRANSECT	5010 - 5018
3148 - 3158	TRANSECT	5011 - 5015
3123 - 3147	TRANSECT	5011 - 5013

BASE	(@) BACK - 5M + 00
Y-	361433.76
X-	3630218.60
ELEV -	3.32

72



JCLS BOOK NO. 557



72

SEE PAGE 71

JCLS BOOK NO. 557

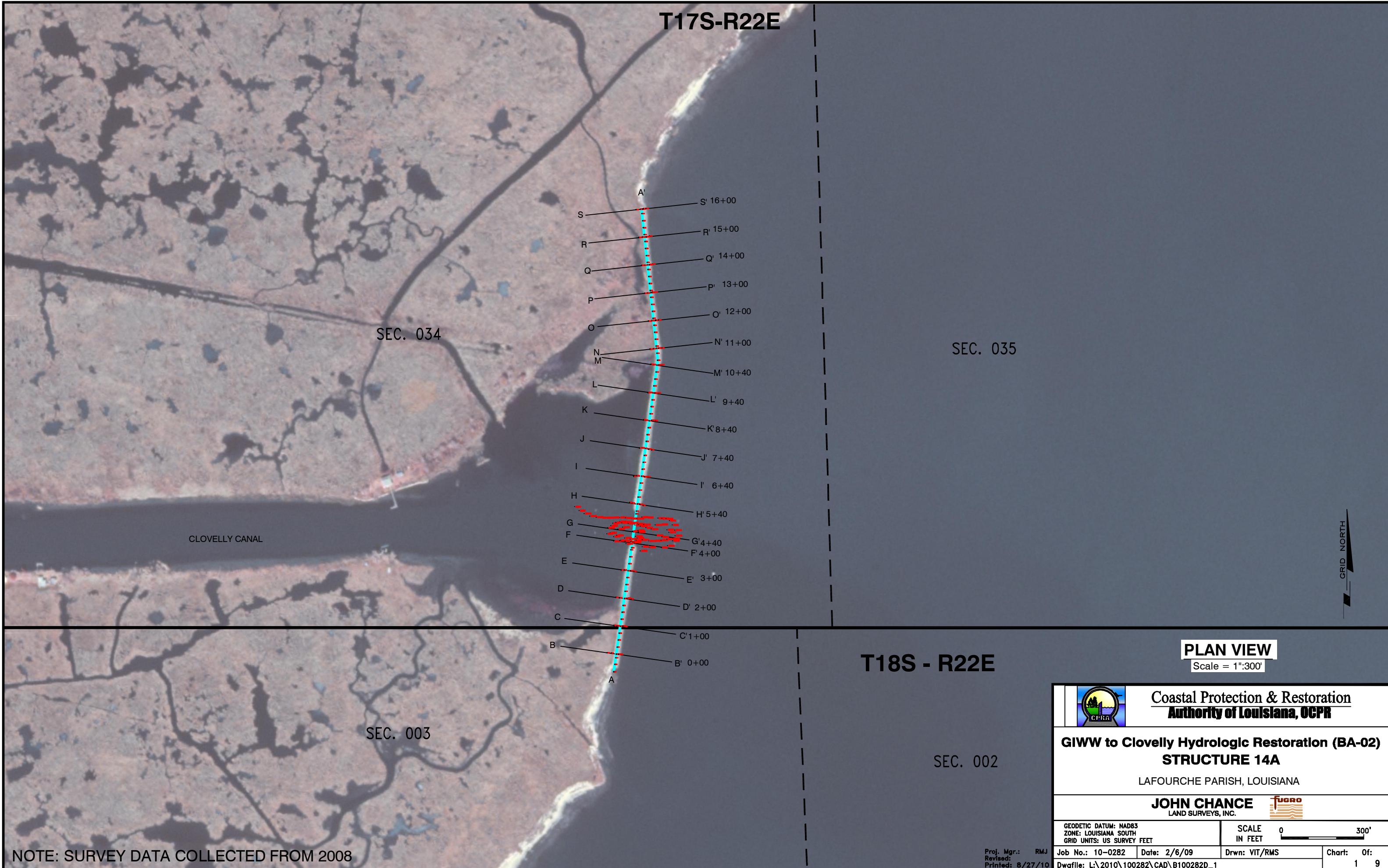


## **SECTION K**

---

### **Maps**

T17S-R22E



T18S - R22E

**PLAN VIEW**

Scale = 1":300'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

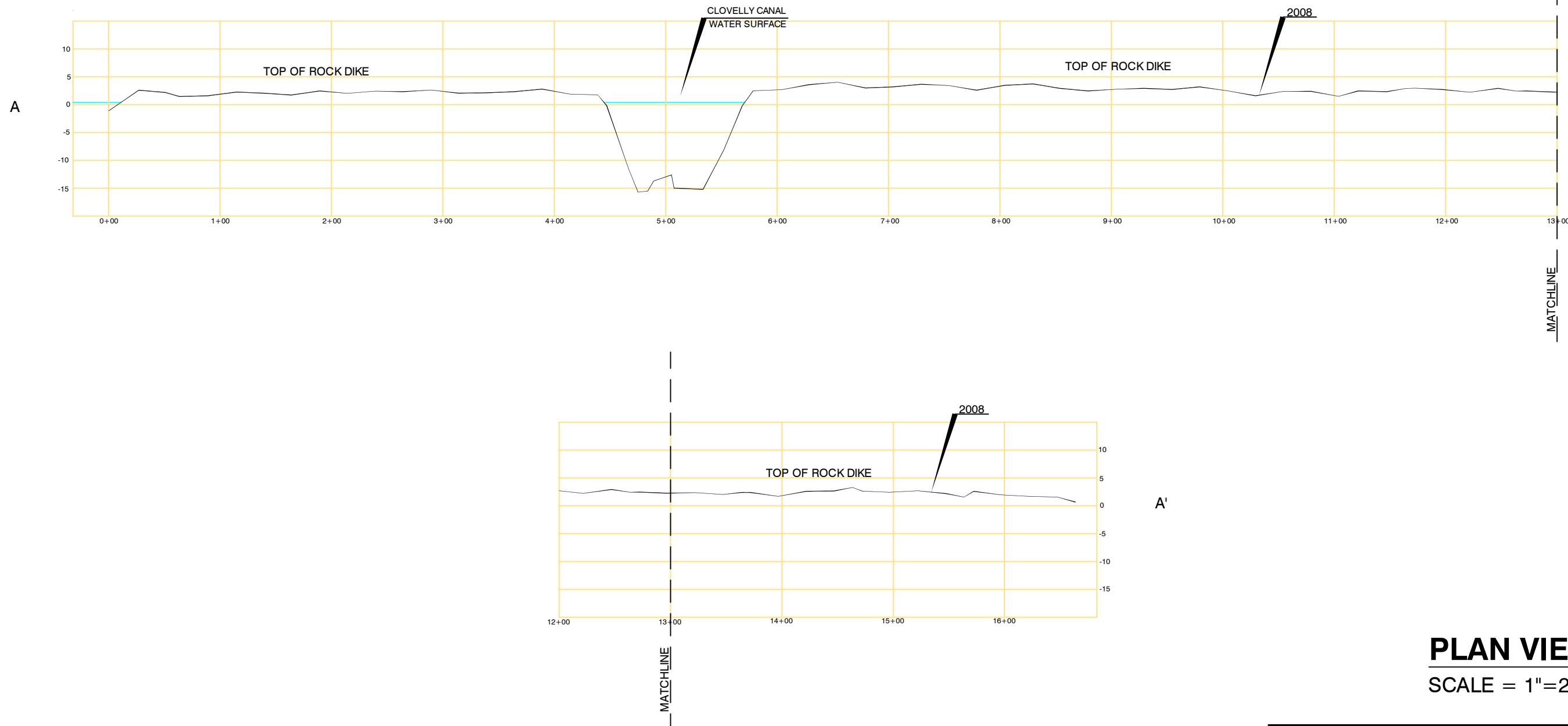
**GIWW to Clovelly Hydrologic Restoration (BA-02)  
STRUCTURE 14A**

LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE 0 IN FEET 300'
Proj. Mgr.: RMJ Revised: 8/27/10	Job No.: 10-0282 Date: 2/6/09 Drwn: VIT/RMS
Dwgfile: L:\2010\100282\CAD\B100282D_1	Chart: 0f: 1 9



## STRUCTURE 14A PROFILE

Horizontal Scale 1"=100'  
Vertical Scale 1"=20'

NOTE: SURVEY DATA COLLECTED FROM 2008

## PLAN VIEW

SCALE = 1"=200'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

### GIWW to Clovelly Hydrologic Restoration (BA-02)

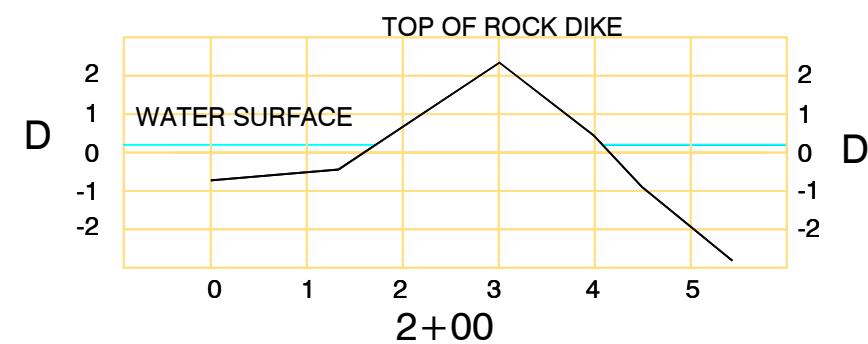
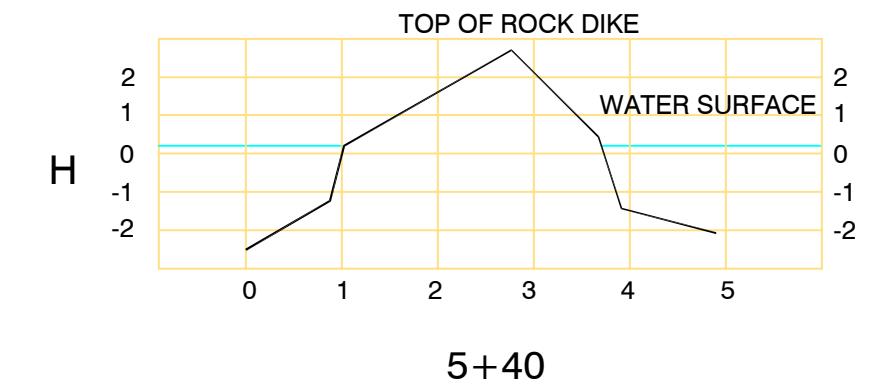
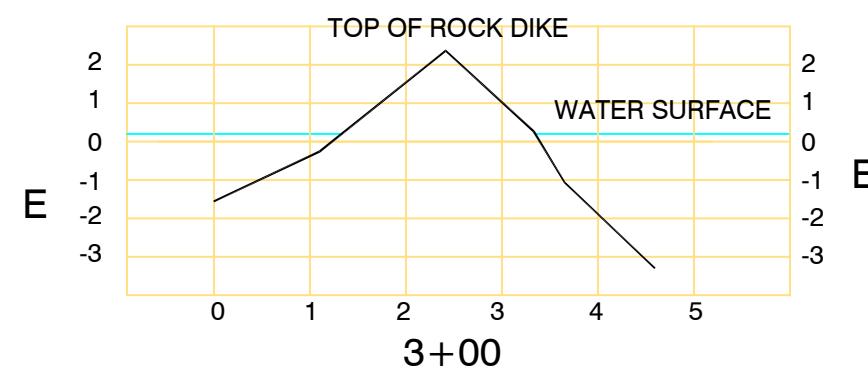
#### STRUCTURE 14A

SECTION 034, T17S-R22E & SECTION 003, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

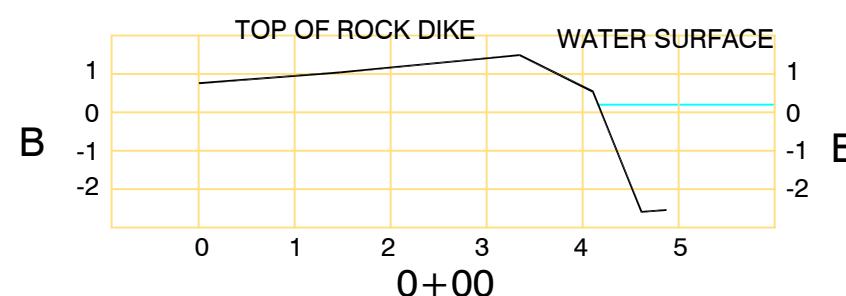
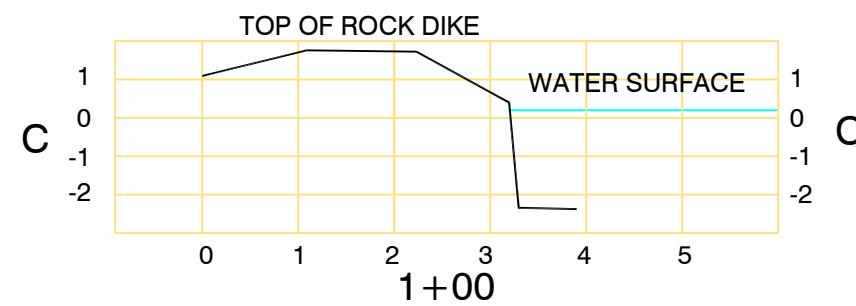
**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE 0 IN FEET 200'
Proj. Mgr.: RMS Revised: Printed: 8/27/10	Job No.: 10-0282 Date: 6/29/10 Dwgfile: L:\2010\100282\CAD\B100282D
	Drwn: RMS/AXG Chart: Of: 2 9



4+40  
NEXT PAGE



4+00  
NEXT PAGE

## Structure 14A Cross Sections

Horizontal Scale 1"=20'  
Vertical Scale 1"=5'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

GIWW to Clovelly Hydrologic Restoration (BA-02)  
**STRUCTURE 14A**

SECTION 034, T17S-R22E & SECTION 003, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

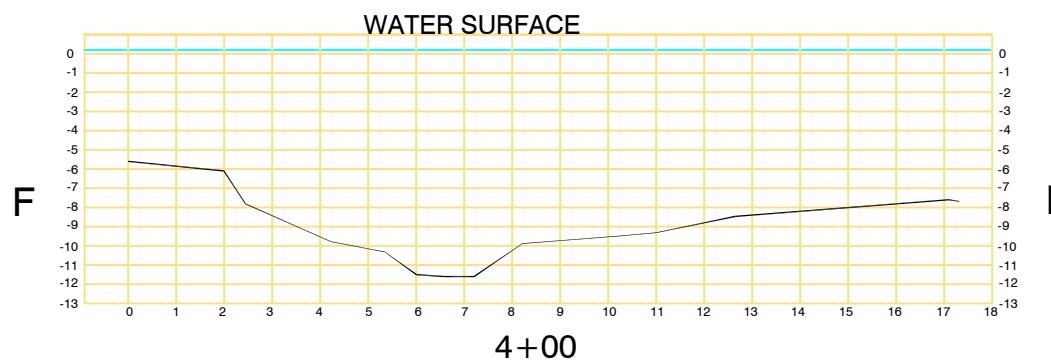
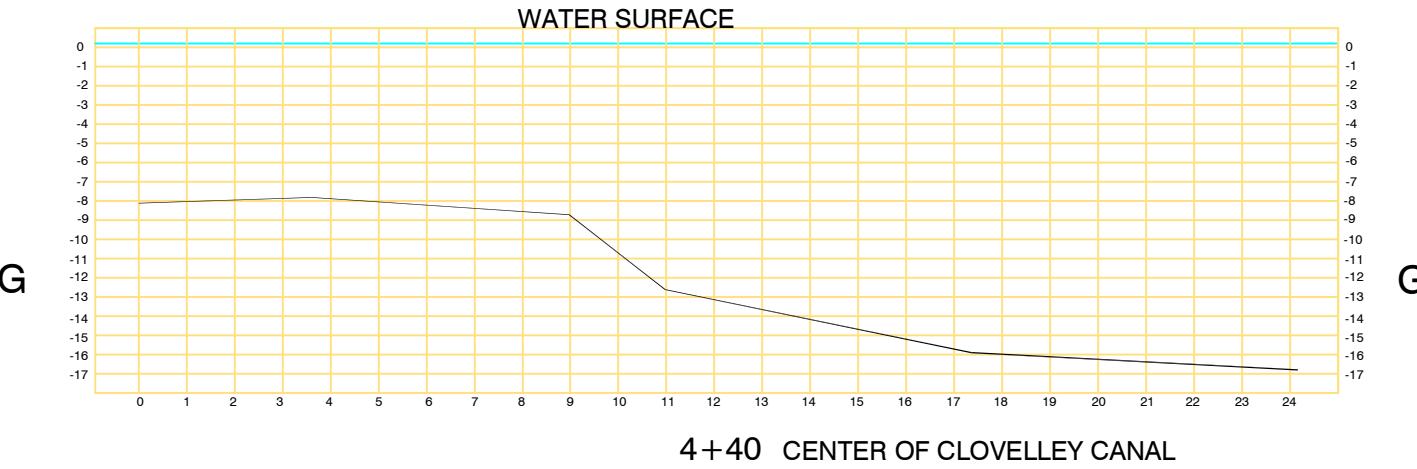
**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN	
Job No.: 10-0282	Date: 6/29/10
Revised:	Drwn: RMS/AXG
Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282D
Chart: 3	Of: 9

NOTE: SURVEY DATA COLLECTED FROM 2008



## Structure 14A Cross Sections

Horizontal Scale 1"=40'  
Vertical Scale 1"=10'

NOTE: SURVEY DATA COLLECTED FROM 2008



Coastal Protection & Restoration  
Authority of Louisiana, OCPR

**GIWW to Clovelly Hydrologic Restoration (BA-02)**

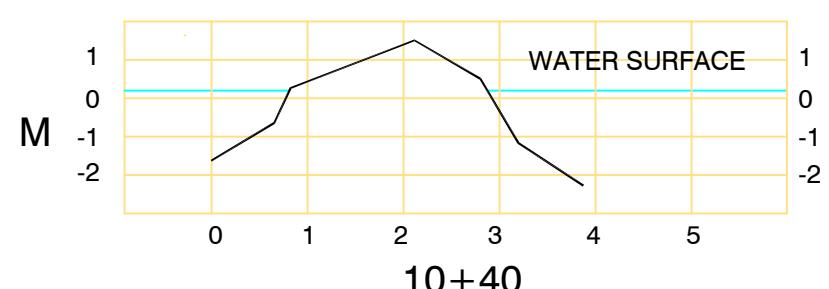
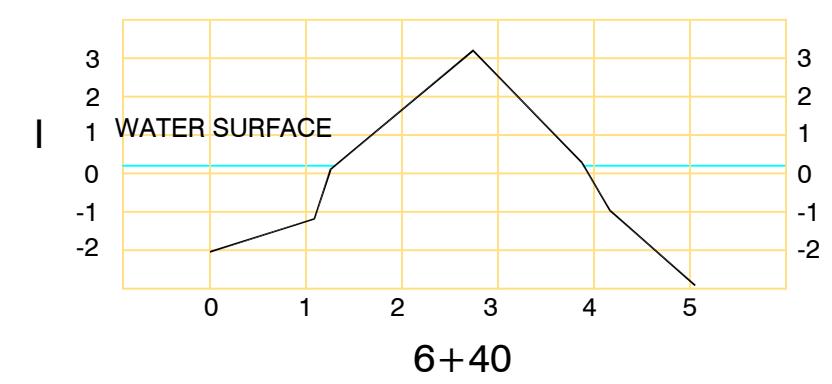
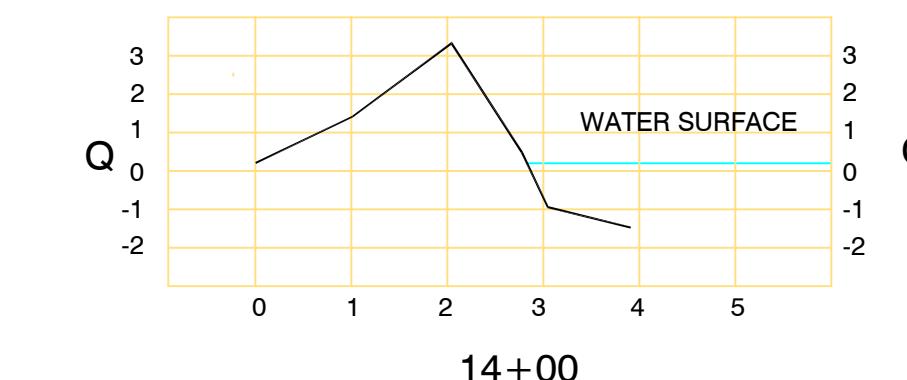
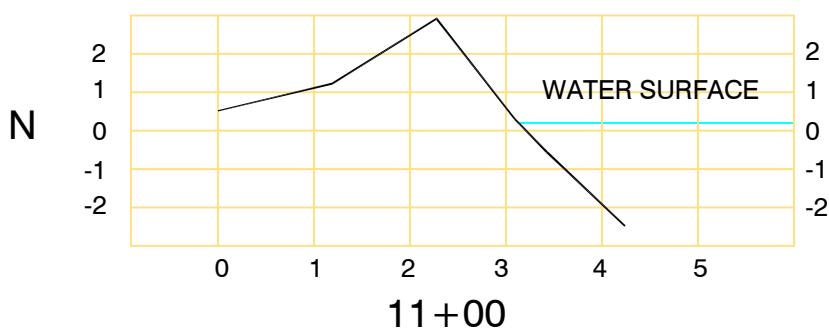
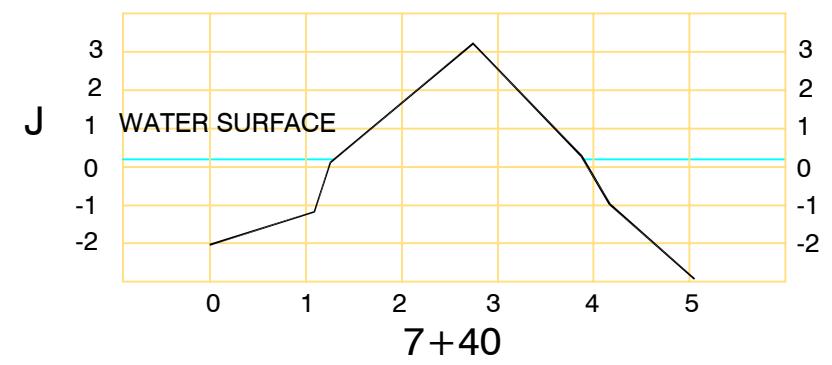
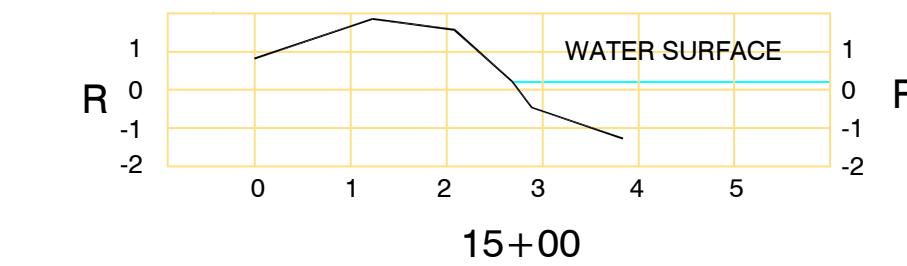
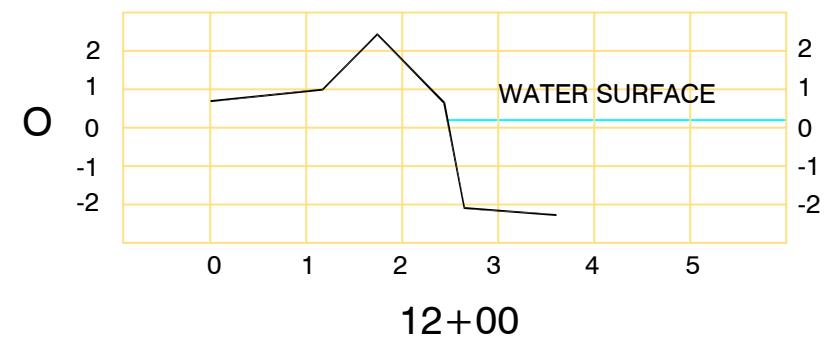
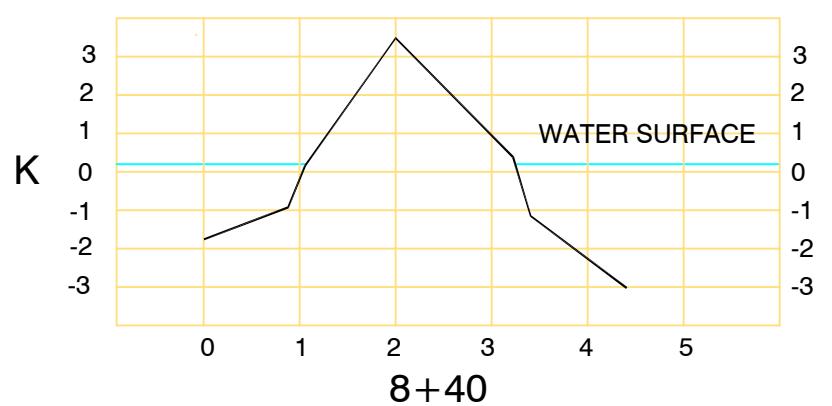
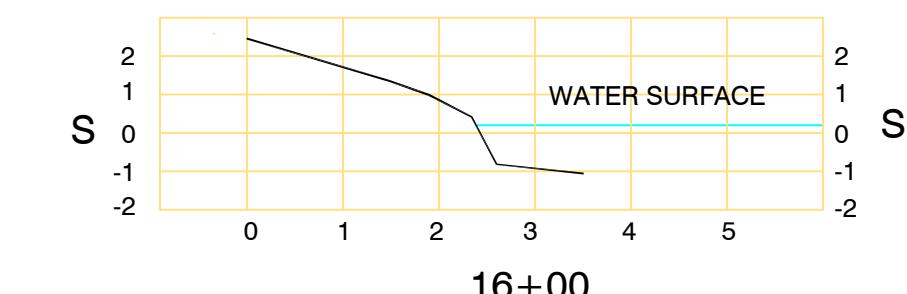
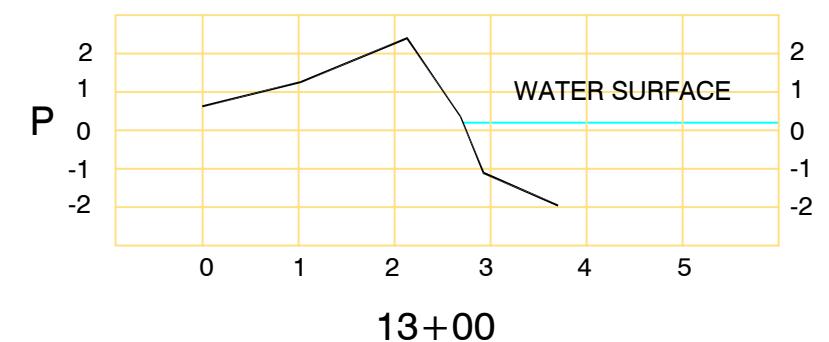
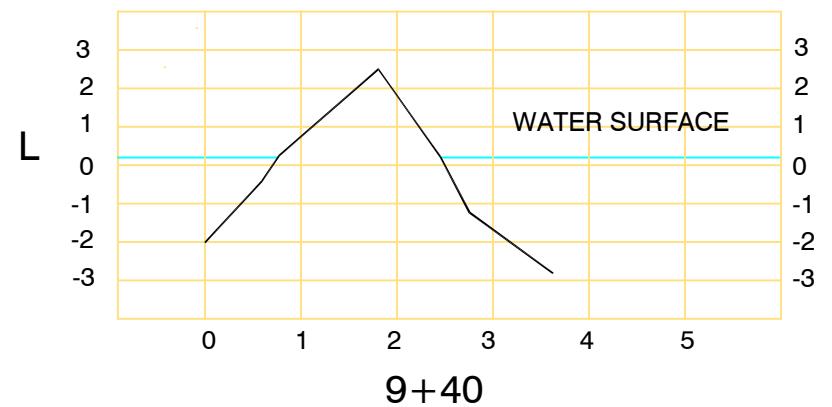
**STRUCTURE 14A**

SECTION 034, T17S-R22E & SECTION 003, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN
Proj. Mgr.: RMS Revised: Printed: 8/27/10	Job No.: 10-0282 Date: 6/29/10 Drwn: RMS/AXG Dwgfile: L:\2010\100282\CAD\B100282D



NOTE: SURVEY DATA COLLECTED FROM 2008

## Structure 14A Cross Sections

Horizontal Scale 1"=20'  
Vertical Scale 1"=5'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

GIWW to Clovelly Hydrologic Restoration (BA-02)

STRUCTURE 14A

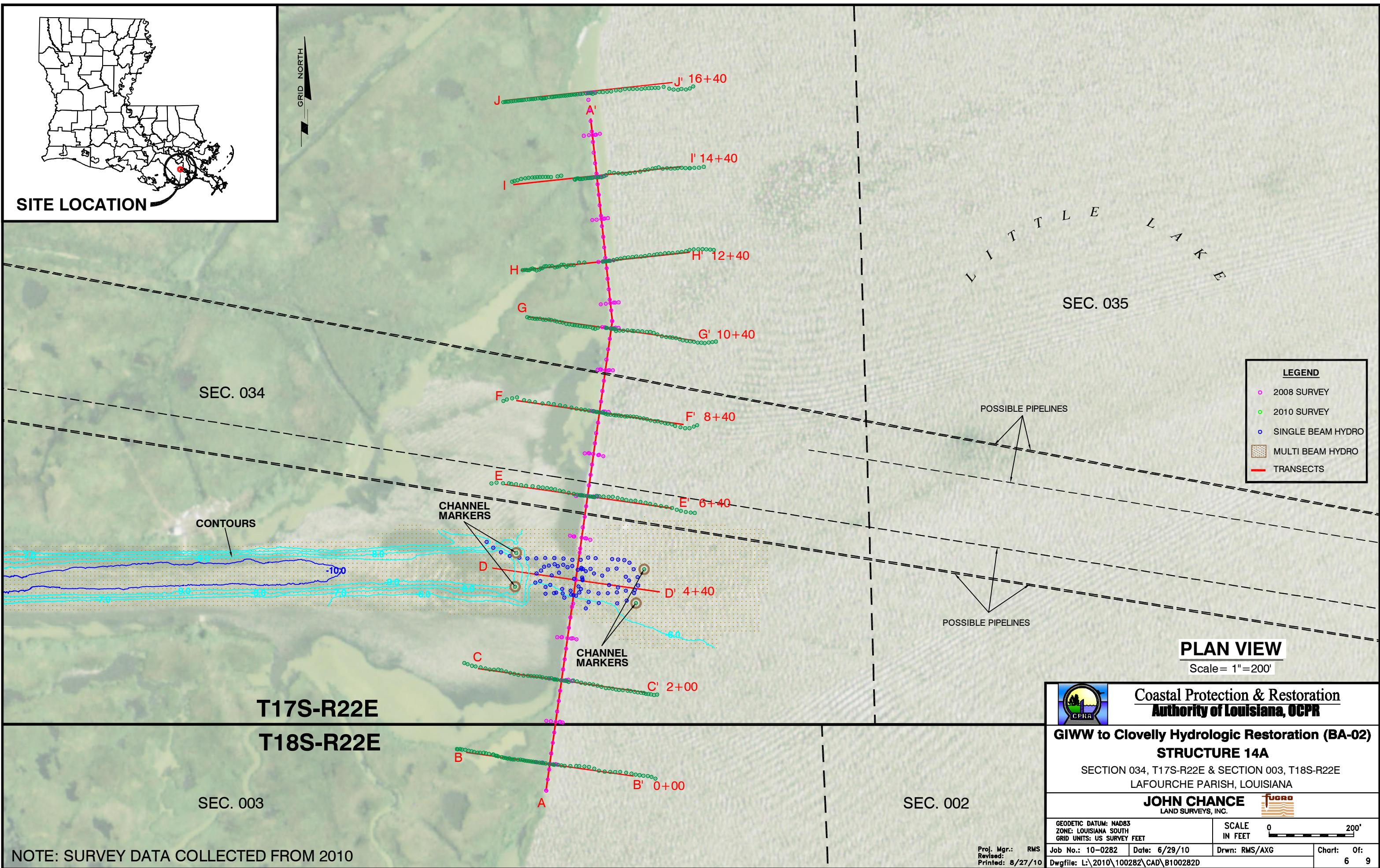
SECTION 034, T17S-R22E & SECTION 003, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

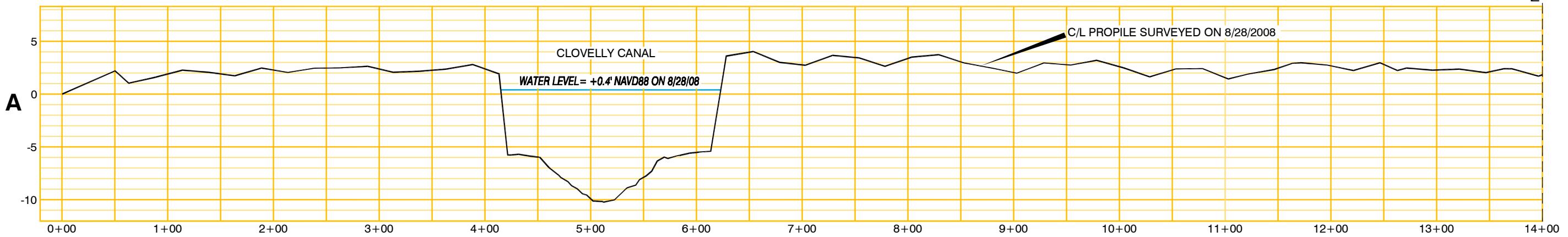
JOHN CHANCE  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83	SCALE AS SHOWN
ZONE: LOUISIANA SOUTH	
GRID UNITS: US SURVEY FEET	

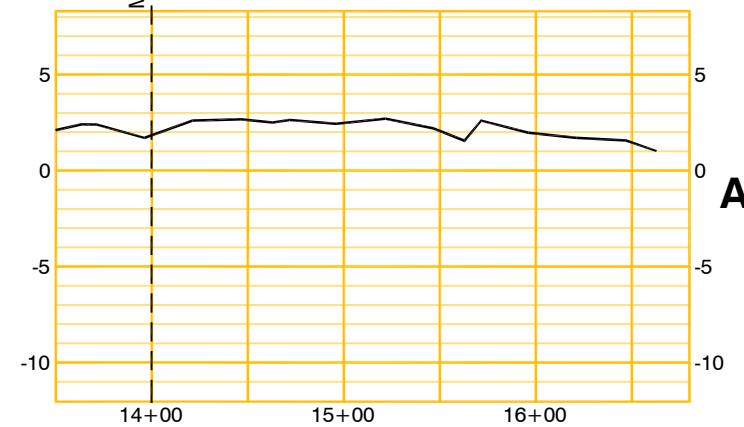
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Revised: Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282D		5 9





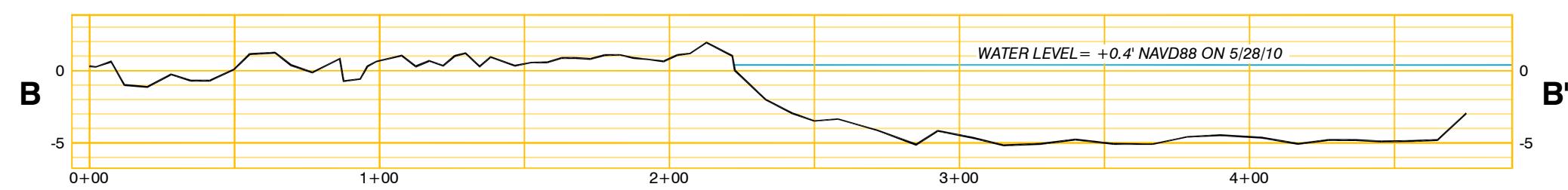
## **STRUCTURE 14A PROFILE**

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 100'

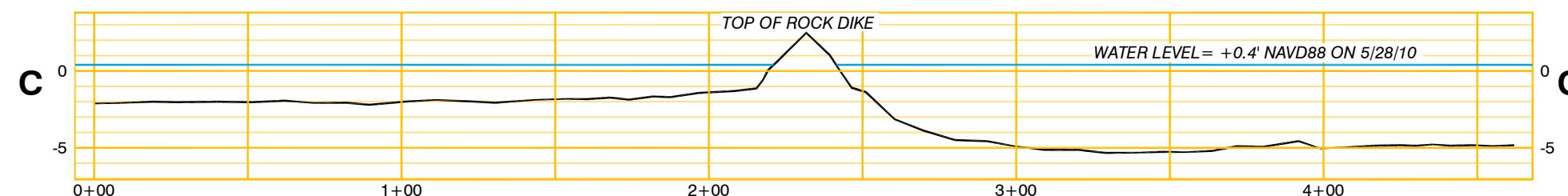


## **STRUCTURE 14A PROFILE**

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 100'



## CROSS SECTION 0+00



## CROSS SECTION 2+00

## **STRUCTURE 14A CROSS SECTIONS**

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 50'



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**

## **STRUCTURE 14A**

**JOHN CHANCE**  
LAND SURVEYS, INC.



**GEODETIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET**

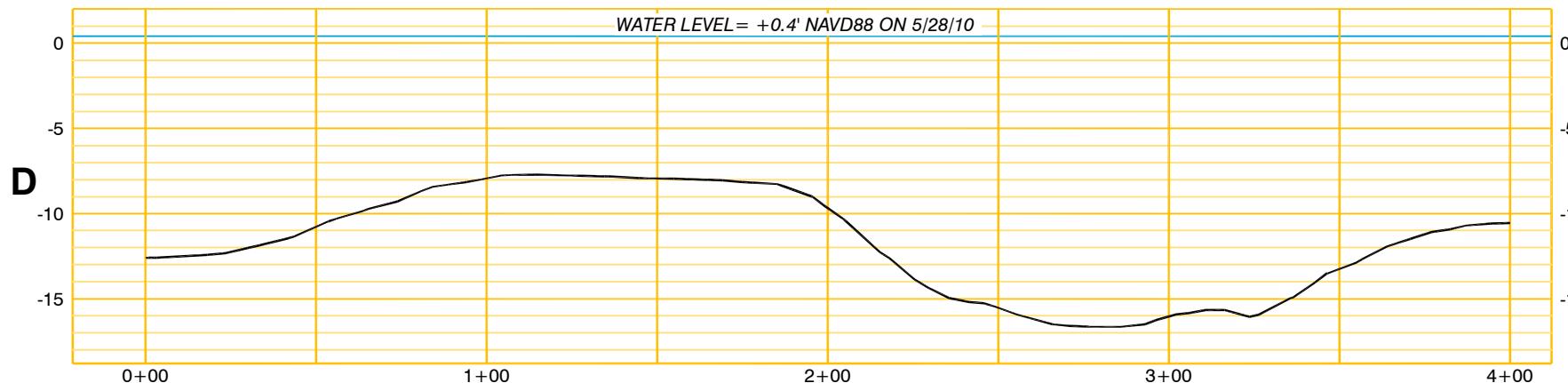
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Job No.: 10-0282 Date: 6/30/10  
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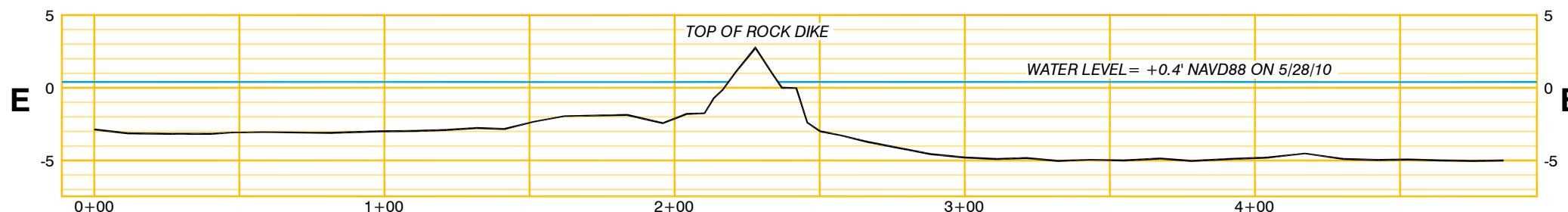
AXG

Proj. Mgr.: RM  
Revised:  
Printed: 8/27/

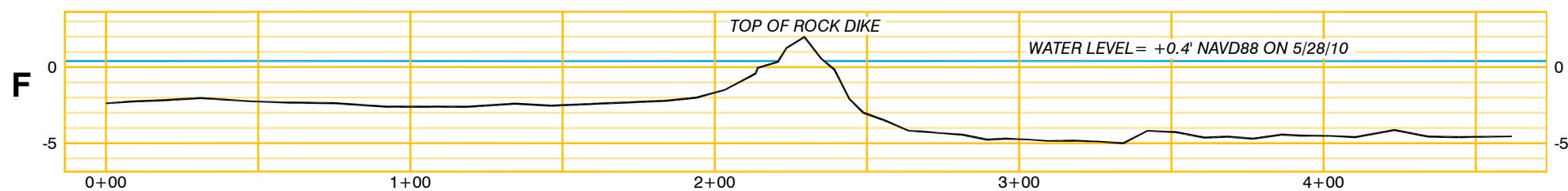
## **NOTE: SURVEY DATA COLLECTED FROM 2010**



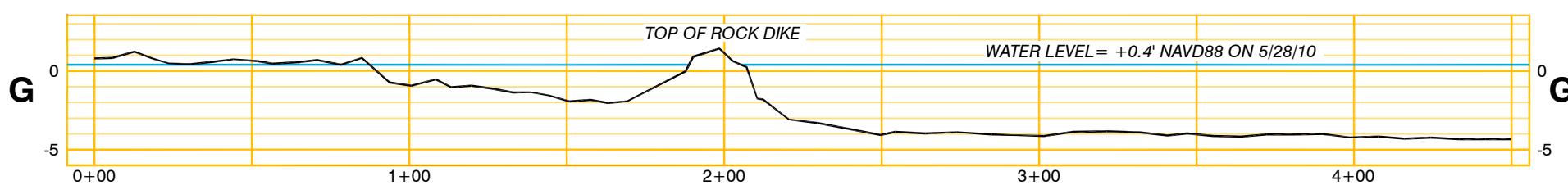
## CROSS SECTION 4+40



## CROSS SECTION 6+40



## CROSS SECTION 8+40



## CROSS SECTION 10+40

## **STRUCTURE 14A CROSS SECTIONS**

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 50'

NOTE: SURVEY DATA COLLECTED FROM 2010



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**

STRUCTURE 14A

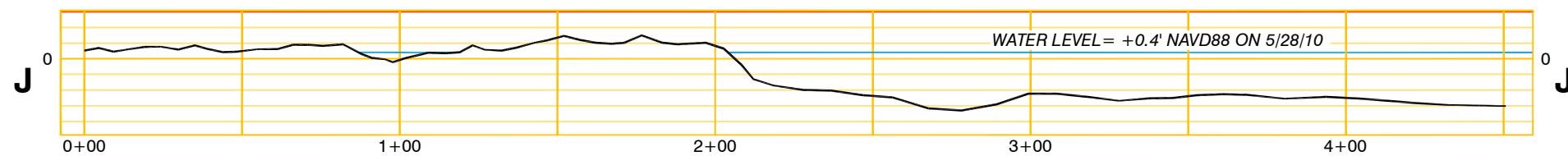
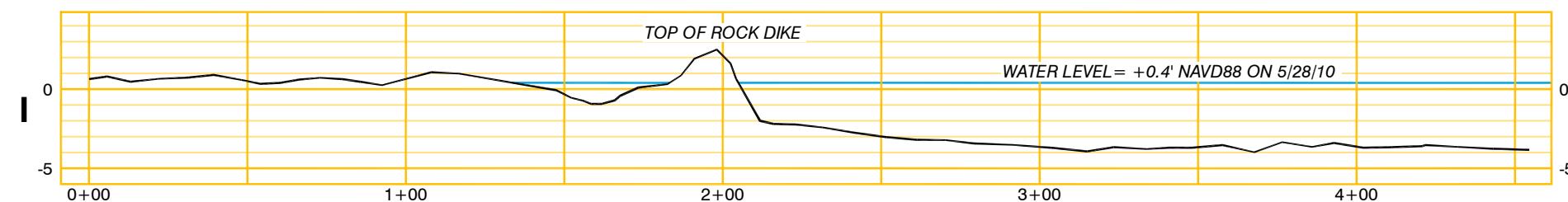
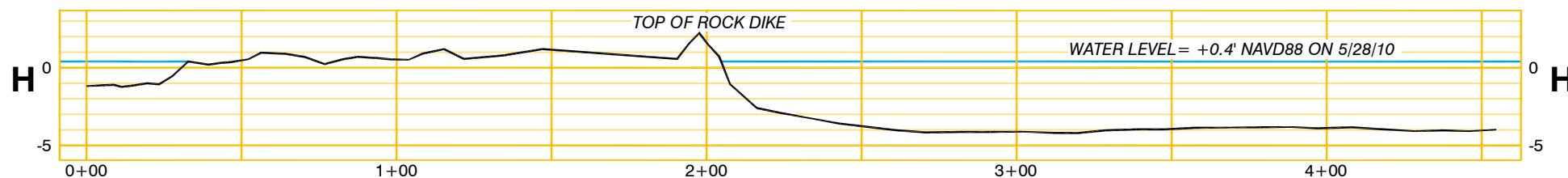
The Fugro logo consists of the word "fugro" in a bold, lowercase, sans-serif font, with a stylized orange graphic element to its left.

DETERMINED BY: LOUISIANA STATE SURVEY  
UNITS: US SURVEY FEET

SCALE AS SHOWN

No.: 10-0282 Date: 6/30/10

rt: Of:  
8 9



NOTE: SURVEY DATA COLLECTED FROM 2010

### STRUCTURE 14A CROSS SECTIONS

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 50'

Proj. Mgr.: RMS  
Revised:  
Printed: 8/27/10

Job No.: 10-0282 Date: 6/30/10  
Dwgfile: L:\2010\100282\CAD\B100282D

Drwn: RMS/AXG Chart: Of:  
9 9



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

### GIWW to Clovelly Hydrologic Restoration (BA-02)

#### STRUCTURE 14A

SECTION 034, T17S-R22E & SECTION 003, T18S-R22E

LAFOURCHE PARISH, LOUISIANA

JOHN CHANCE  
LAND SURVEYS, INC.



GEOSTATIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

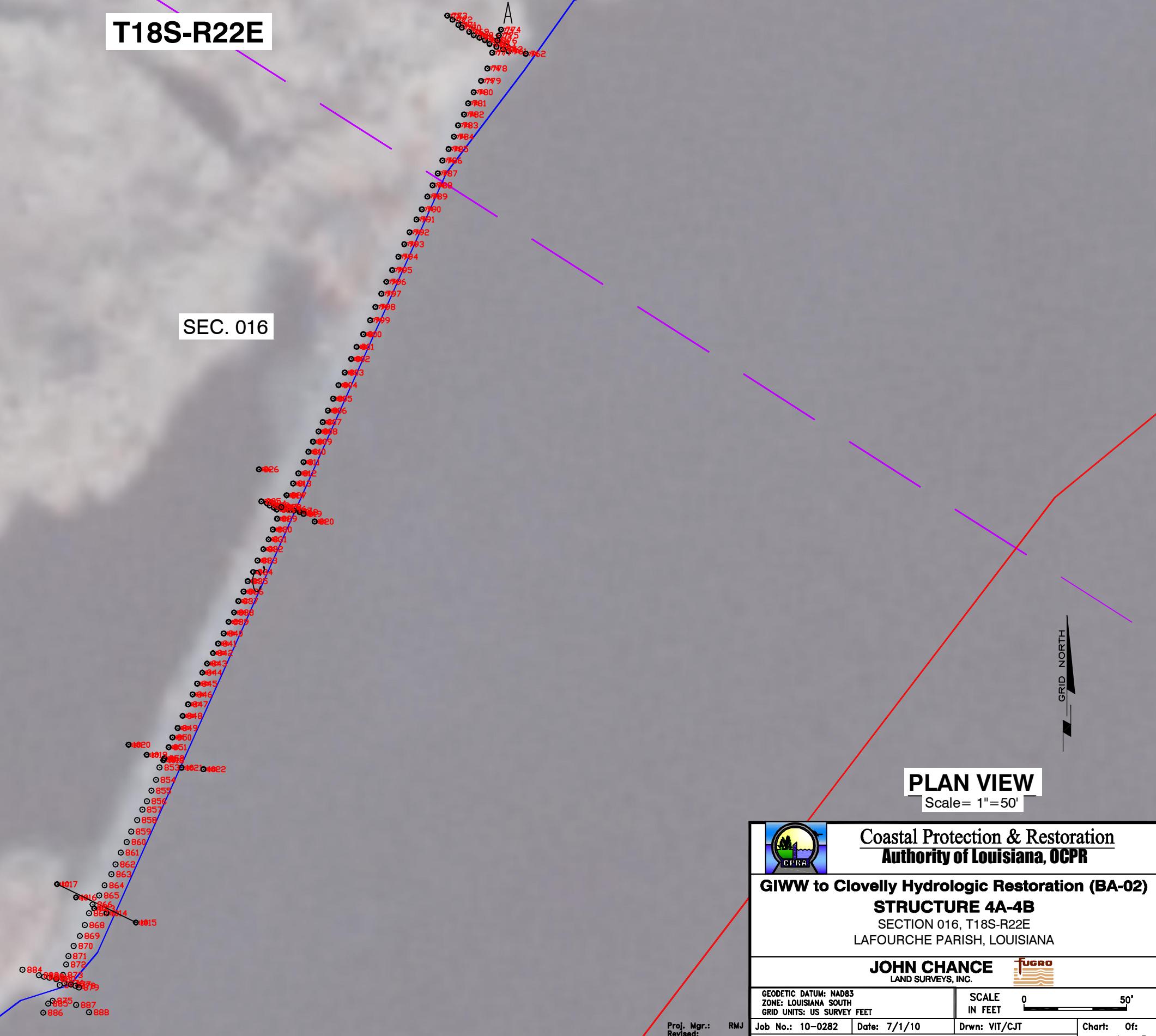


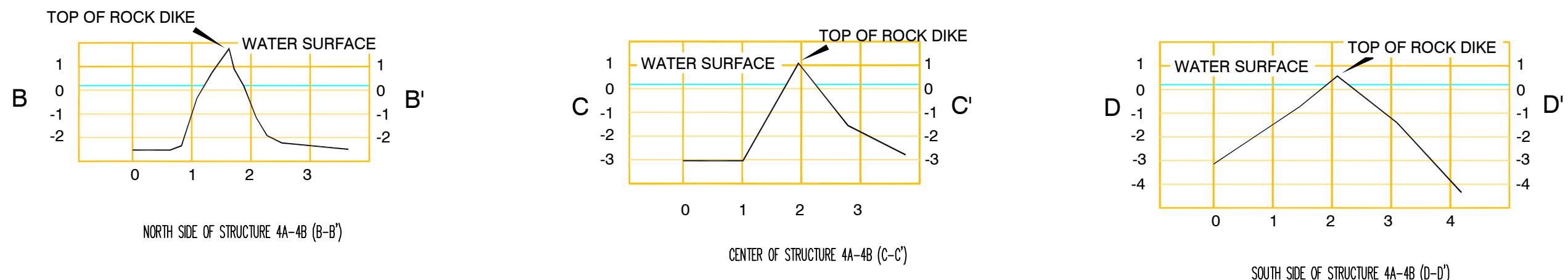
SITE LOCATION

T18S-R22E

SEC. 016

A

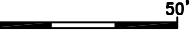


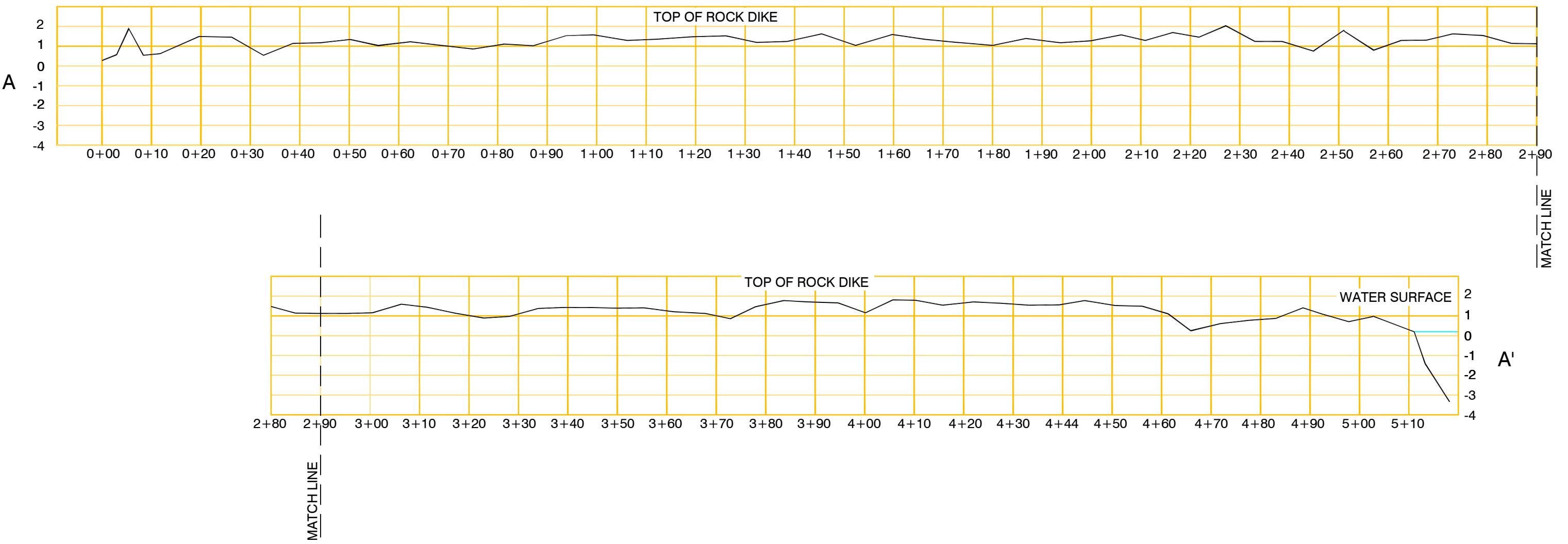


## Structure 4A-4B Cross Sections

Horizontal Scale 1":20'  
Vertical Scale 1":5'

**NOTE:**  
SURVEY DATA COLLECTED FROM 2008 .

 <b>Coastal Protection &amp; Restoration Authority of Louisiana, OCPR</b>	
<b>GIWW to Clovelly Hydrologic Restoration (BA-02)</b> <b>STRUCTURE 4A-4B</b> SECTION 016, TS18S-R22E LAFOURCHE PARISH, LOUISIANA	
 <b>JOHN CHANCE</b> <small>LAND SURVEYS, INC.</small>	
GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE 0 <small>IN FEET</small> 
Proj. Mgr.: RMJ Revised: Printed: 7/2/10	
Job No.: 10-0282 Date: 7/1/10 Drwn: VIT/CJT	
Dwgfile: L:\2010\100282\CAD\B100282E Chart: 0f: 2 5	



### STRUCTURE 4A-4B PROFILE

Horizontal Scale 1":20'  
Vertical Scale 1":5'

#### NOTE:

SURVEY DATA COLLECTED FROM 2008 .



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

#### GIWW to Clovelly Hydrologic Restoration (BA-02)

**STRUCTURE 4A-4B**  
SECTION 016, TS18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



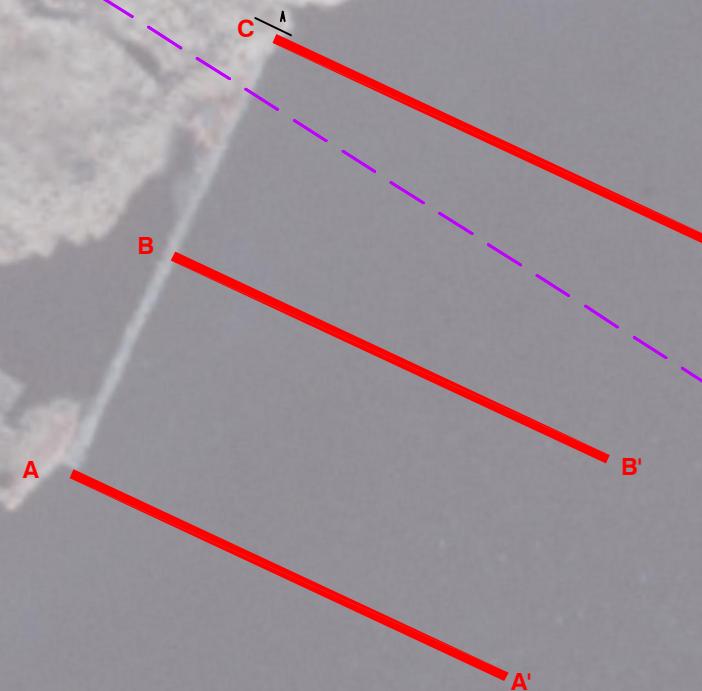
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T18S-R22E

SEC. 016

GRID NORTH



SEC. 015

**PLAN VIEW**

SCALE = 1":200'



Coastal Protection & Restoration  
Authority of Louisiana, OCPR

GIWW to Clovelly Hydrologic Restoration (BA-02)

**STRUCTURE 14A**

SECTION 016, TS18S-R22E

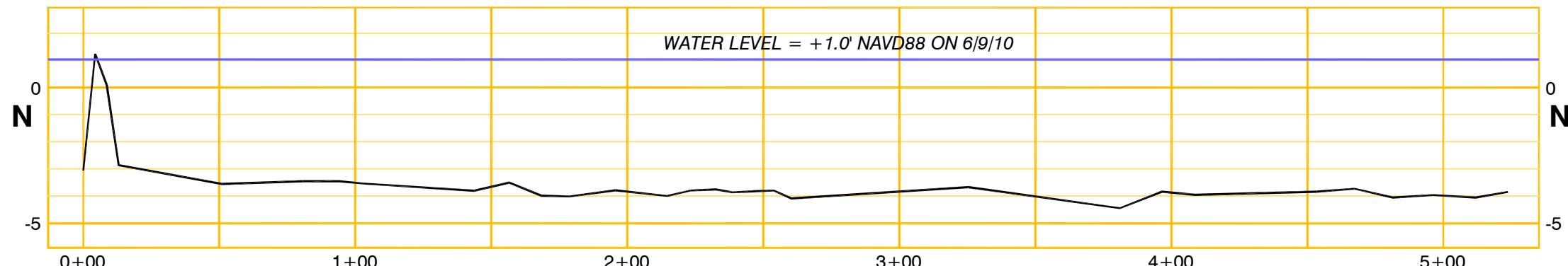
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

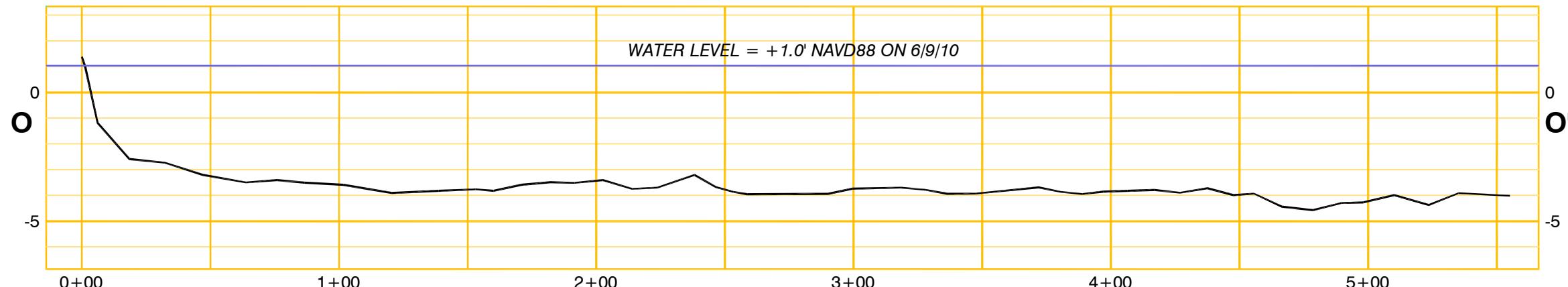


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Proj. Mgr.: RMS Revised: Printed: 7/2/10	Job No.: 10-0282 Date: 6/29/10 Drwn: RMS/CJT Dwgfile: L:\2010\100282\CAD\B100282E
	Chart: Of: 4 5

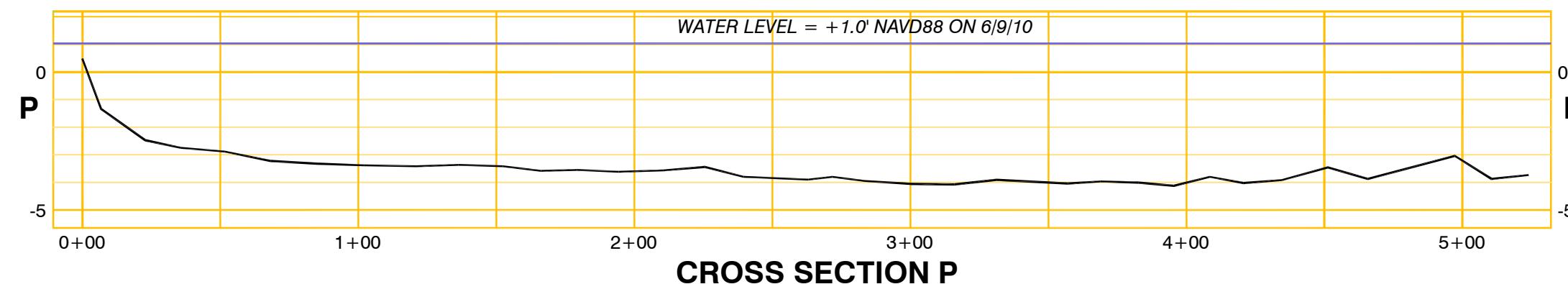
NOTE:  
SURVEY DATA COLLECTED FROM 2008 .



**CROSS SECTION N**



**CROSS SECTION O**



**CROSS SECTION P**

## **STRUCTURE 4 CROSS SECTIONS**

Horizontal Scale 1"=50'

Vertical Scale 1"=5'

**NOTE:**

SURVEY DATA COLLECTED FROM 2010 .

Proj. Mgr.: RMS  
Revised:  
Printed: 7/2/10

Job No.: 10-0282	Date: 6/30/10	Drwn: RMS/CJT	Chart: Of:
Dwgfile: L:\2010\100282\CAD\B100282E		5 5	



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**

**STRUCTURE 14A**

SECTION 016, TS18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

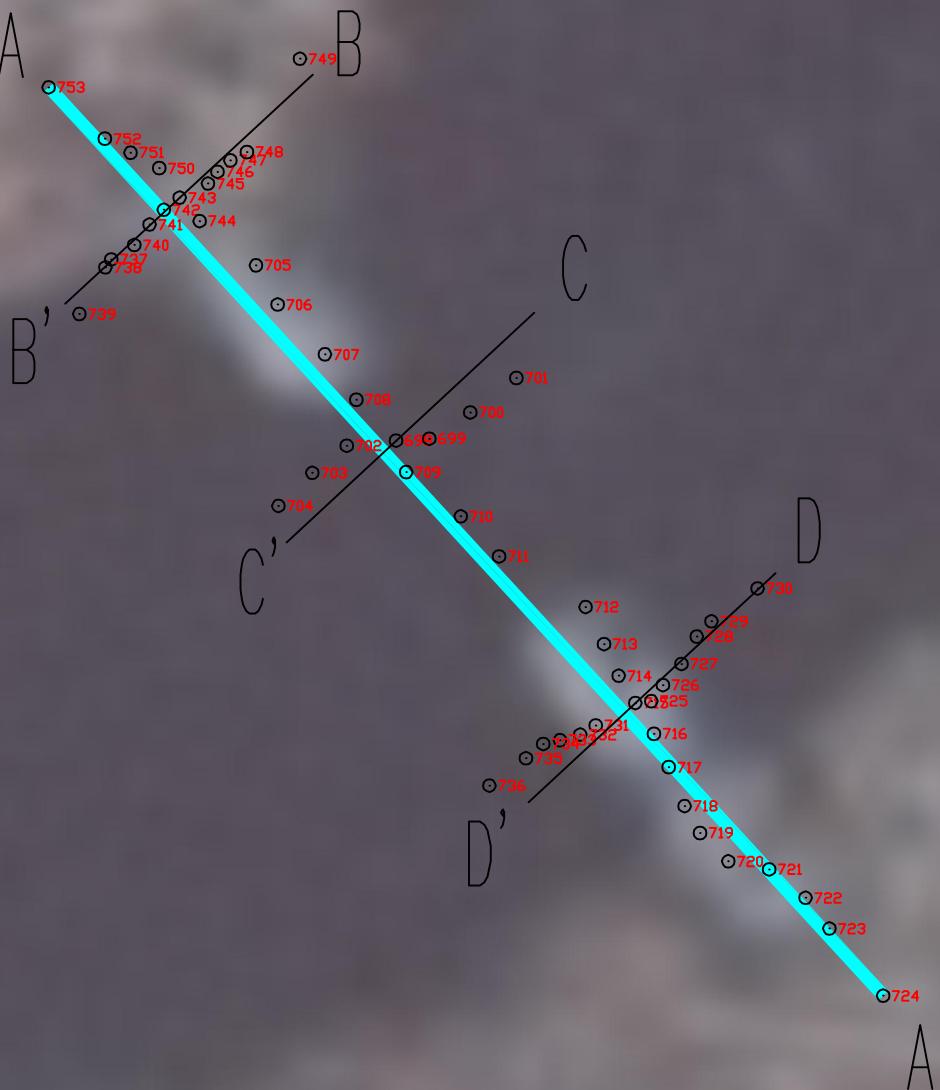


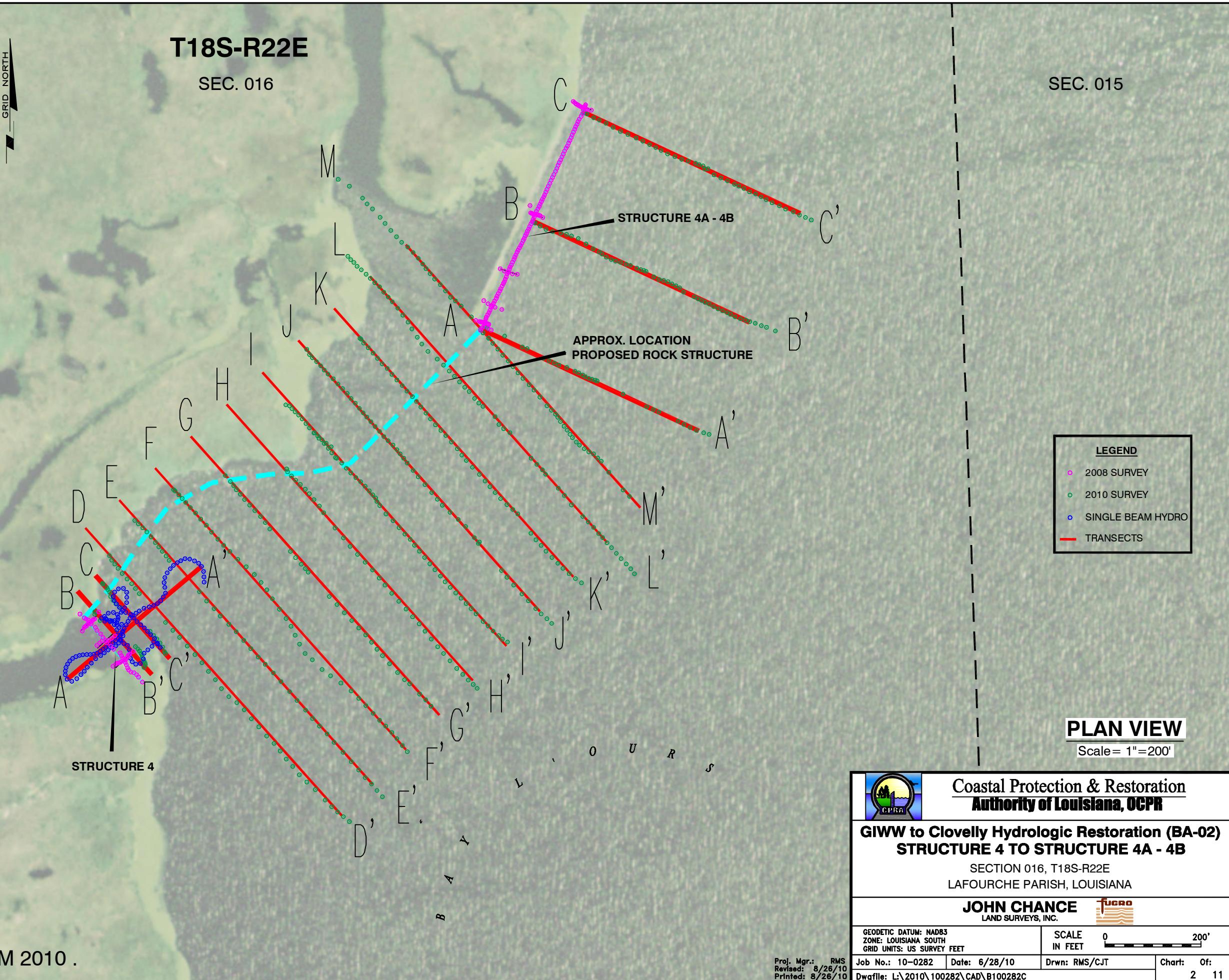
GEODETIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

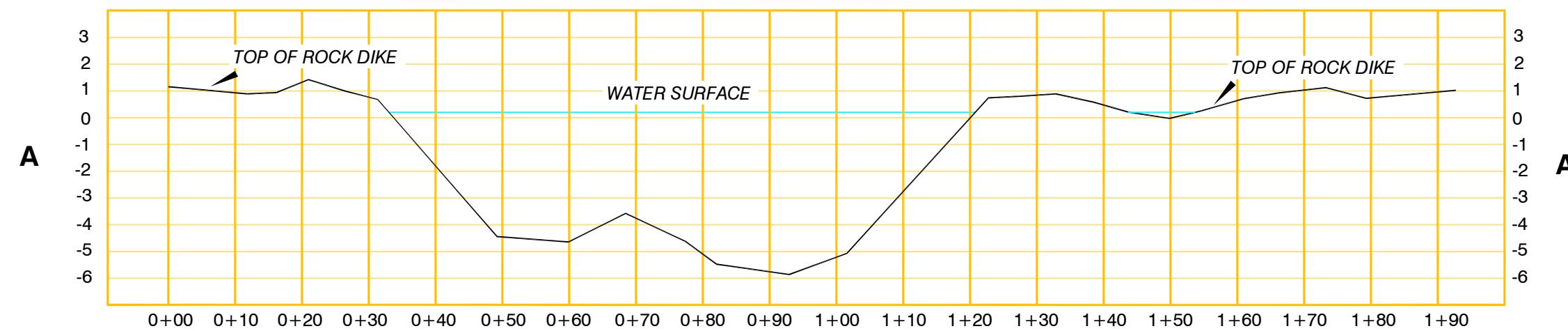
SCALE AS SHOWN

T18S-R22E

SEC. 016







## STRUCTURE 4 PROFILE

Horizontal Scale 1"=20'  
Vertical Scale 1"=5'

### NOTE:

SURVEY DATA COLLECTED FROM 2008 .



Coastal Protection & Restoration  
Authority of Louisiana, OCPR

### GIWW to Clovelly Hydrologic Restoration (BA-02)

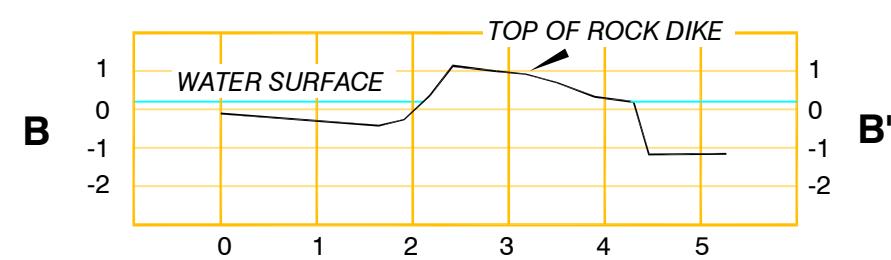
#### STRUCTURE 4

SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

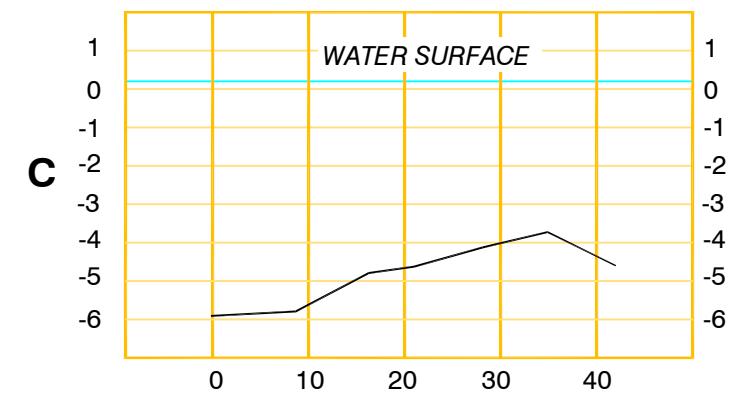
**JOHN CHANCE**  
LAND SURVEYS, INC.



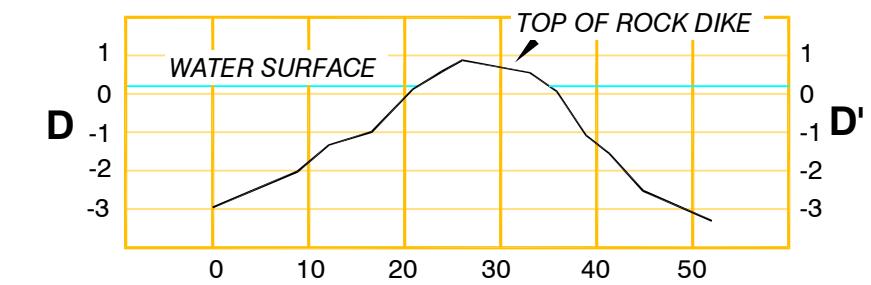
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Proj. Mgr.: RMS Revised: Printed: 7/1/10	Job No.: 10-0282 Date: 6/28/10 Dwgfile: L:\2010\100282\CAD\B100282C	Drwn: RMS/CJT	Chart: Of: 3 11

**B****B'**

NORTH SIDE OF STRUCTURE 4 (B-B')

**C****C'**

CENTER OF STRUCTURE 4 (C-C')

**D****D'**

SOUTH SIDE OF STRUCTURE 4 (D-D')

## Structure 4 Cross Sections

Horizontal Scale 1"=20'  
Vertical Scale 1"=5'

### NOTE:

SURVEY DATA COLLECTED FROM 2008 .



Coastal Protection & Restoration  
Authority of Louisiana, OCPR

### GIWW to Clovelly Hydrologic Restoration (BA-02)

#### STRUCTURE 4

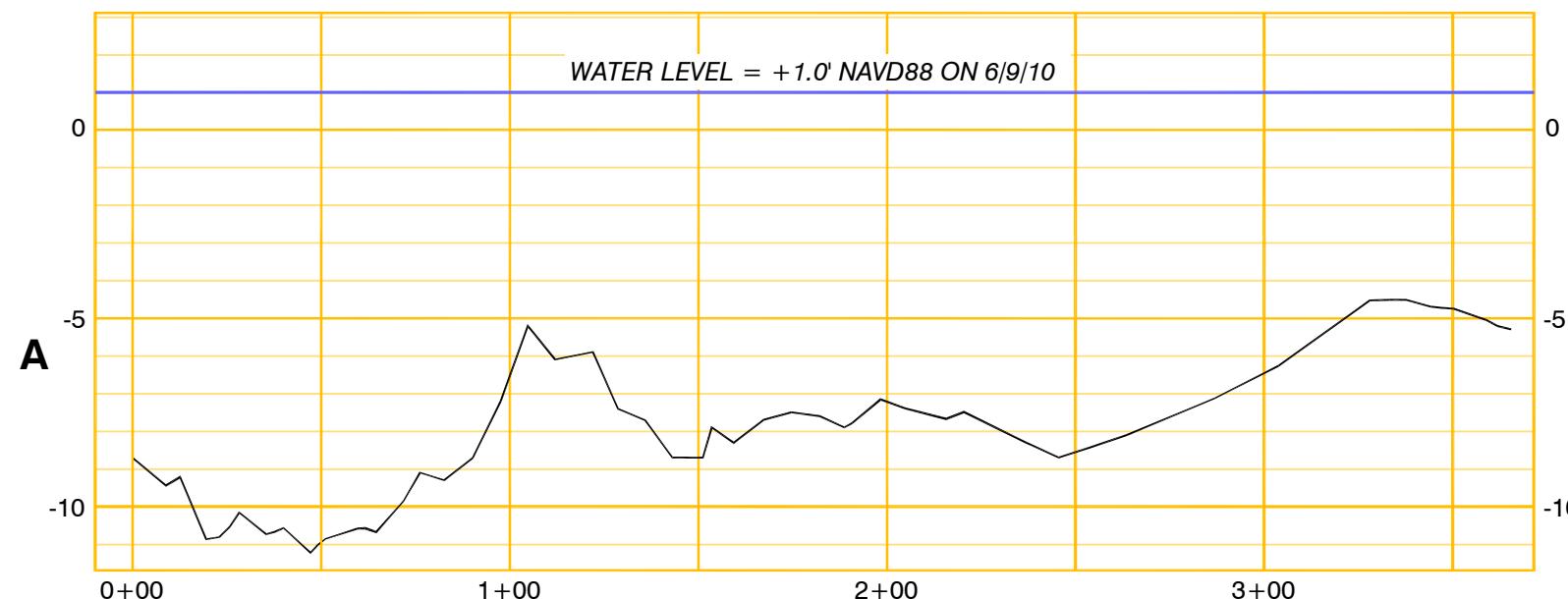
SECTION 016, T18S-R22E

LAFOURCHE PARISH, LOUISIANA

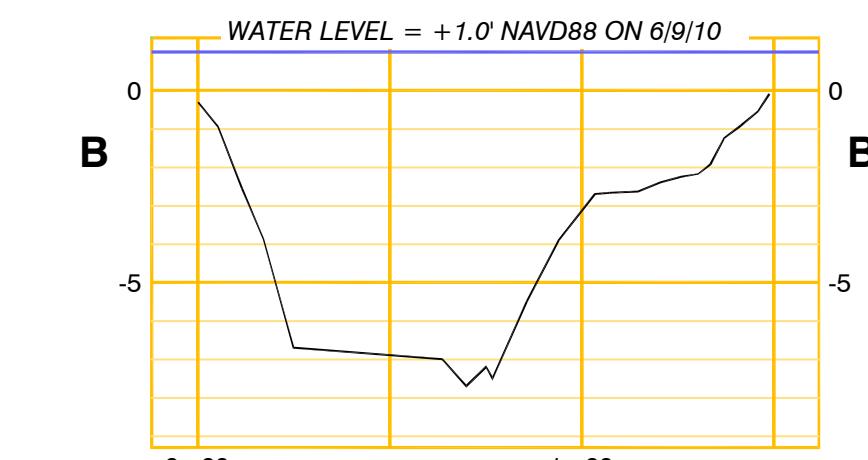
**JOHN CHANCE**  
LAND SURVEYS, INC.



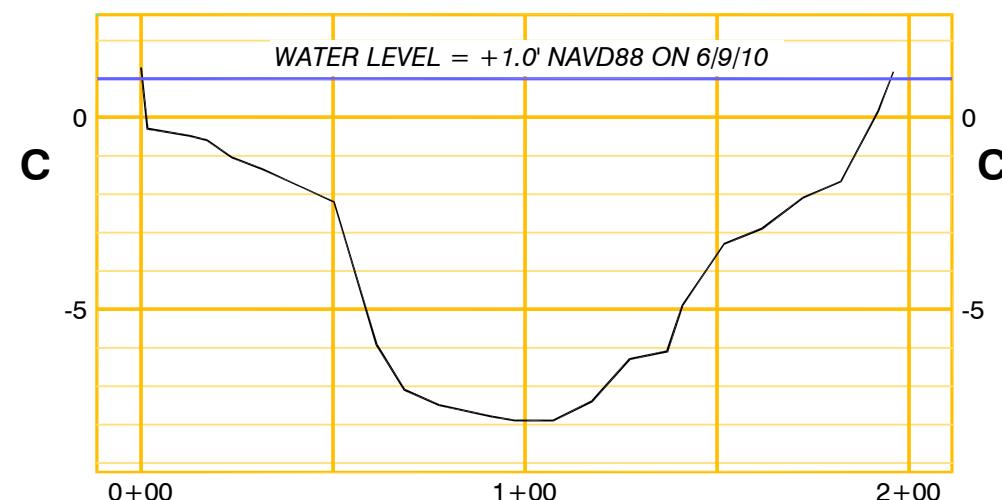
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ZONE: LOUISIANA SOUTH			
GRID UNITS: US SURVEY FEET			
Proj. Mgr.:	RMS	Job No.: 10-0282	Date: 6/28/10
Revised:		Drwn: RMS/CJT	Chart: Of:
Printed:	7/1/10	Dwgfile: L:\2010\100282\CAD\B100282C	4 11



**STRUCTURE 4 PROFILE**



**CROSS SECTION B**



**CROSS SECTION C**

**STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS**

Horizontal Scale 1"=50'  
Vertical Scale 1"=5'

**NOTE:**

SURVEY DATA COLLECTED FROM 2010 .



Coastal Protection & Restoration  
**Authority of Louisiana, OCPR**

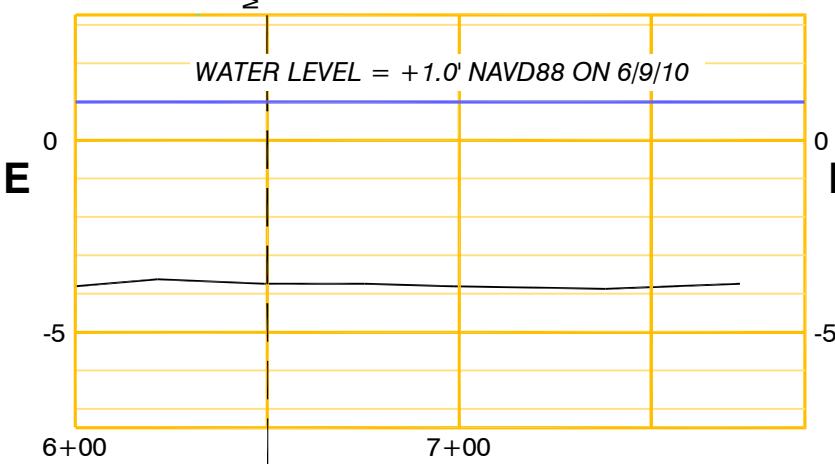
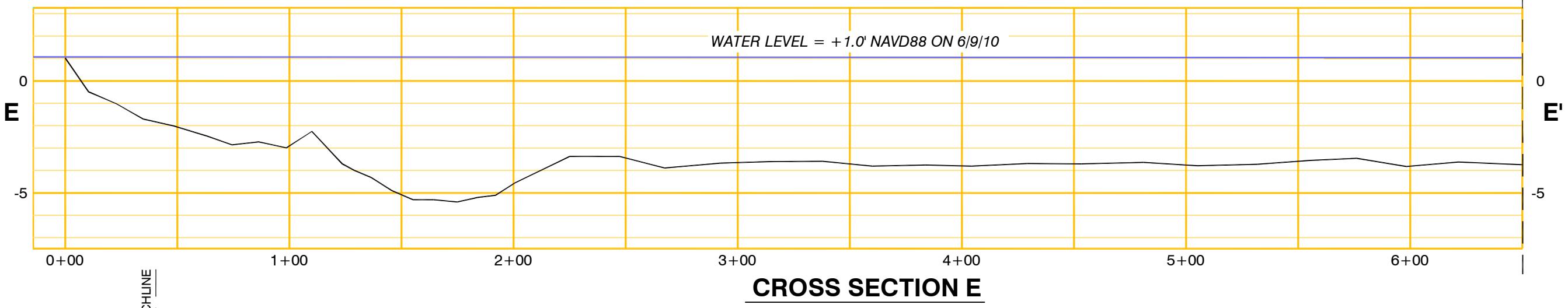
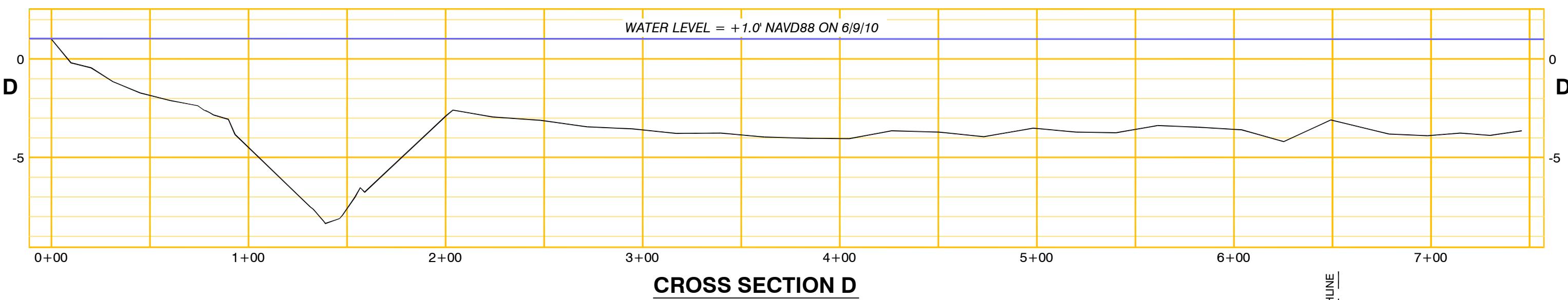
**GIWW to Clovelly Hydrologic Restoration (BA-02)**  
**STRUCTURE 4 TO STRUCTURE 4A - 4B**

SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE AS SHOWN	
Proj. Mgr.: RMS	Revised:	Job No.: 10-0282 Date: 6/28/10	Drwn: RMS/CJT Chart: Of:
Revised: Printed: 7/1/10		Dwgfile: L:\2010\100282\CAD\B100282C	5 11



### STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS

Horizontal Scale 1"=50'

Vertical Scale 1"=5'

#### **NOTE:**

SURVEY DATA COLLECTED FROM 2010 .



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

GIWW to Clovelly Hydrologic Restoration (BA-02)

**STRUCTURE 4 TO STRUCTURE 4A - 4B**

SECTION 016, T18S-R22E

LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

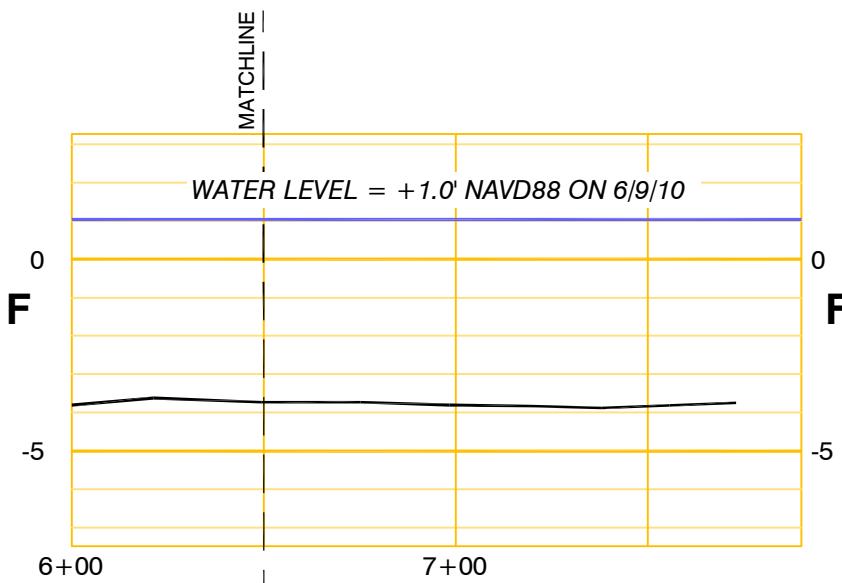
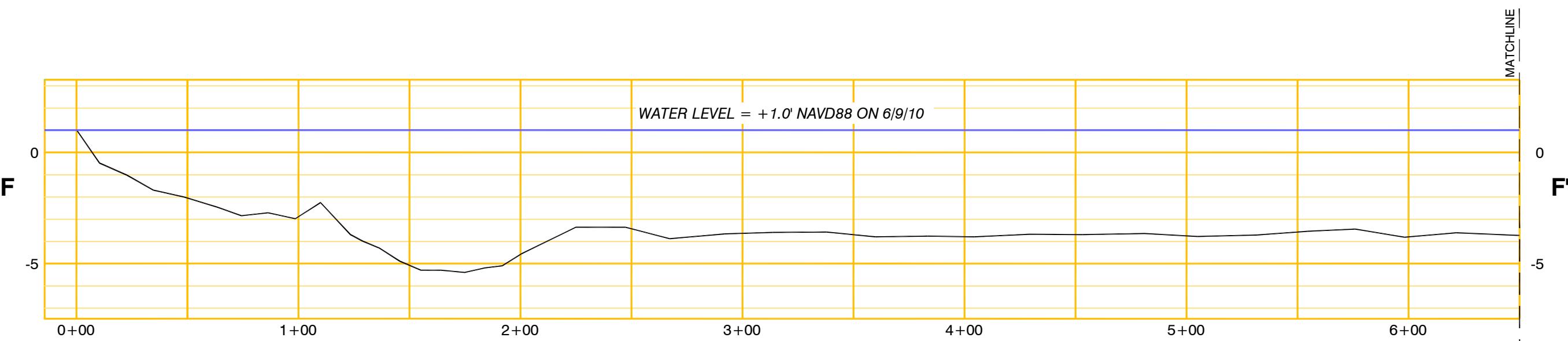
Job No.: 10-0282 Date: 6/28/10  
Revised: Printed: 7/1/10 Dwgfile: L:\2010\100282\CAD\B100282C

SCALE AS SHOWN

Drwn: RMS/CJT

Chart: Of:

6 11



### STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS

**NOTE:**

SURVEY DATA COLLECTED FROM 2010 .

Horizontal Scale 1"=50'

Vertical Scale 1"=5'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

GIWW to Clovelly Hydrologic Restoration (BA-02)

**STRUCTURE 4 TO STRUCTURE 4A - 4B**

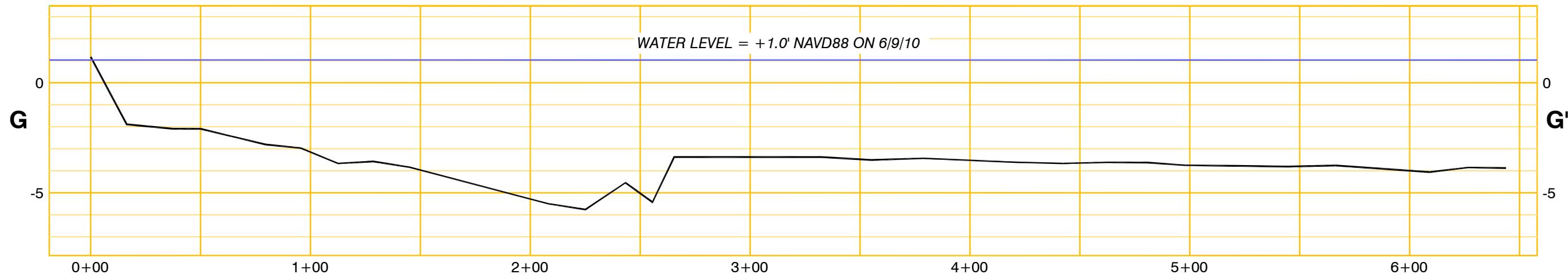
SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

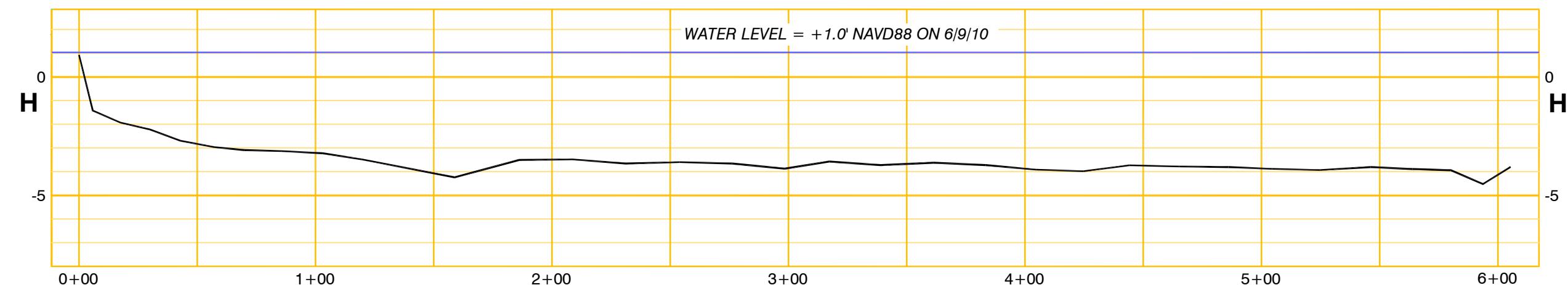


GEOGRAPHIC DATUM: NAD83	SCALE AS SHOWN
ZONE: LOUISIANA SOUTH	
GRID UNITS: US SURVEY FEET	

Proj. Mgr.: RMS	Date: 6/28/10	Drwn: RMS/CJT	Chart: Of:
Revised:			
Printed: 7/1/10	Dwgfile: L:\2010\100282\CAD\B100282C		7 11



**CROSS SECTION G**



**CROSS SECTION H**

**STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS**

**NOTE:**

SURVEY DATA COLLECTED FROM 2010 .

Horizontal Scale 1"=50'  
Vertical Scale 1"=5'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

GIWW to Clovelly Hydrologic Restoration (BA-02)

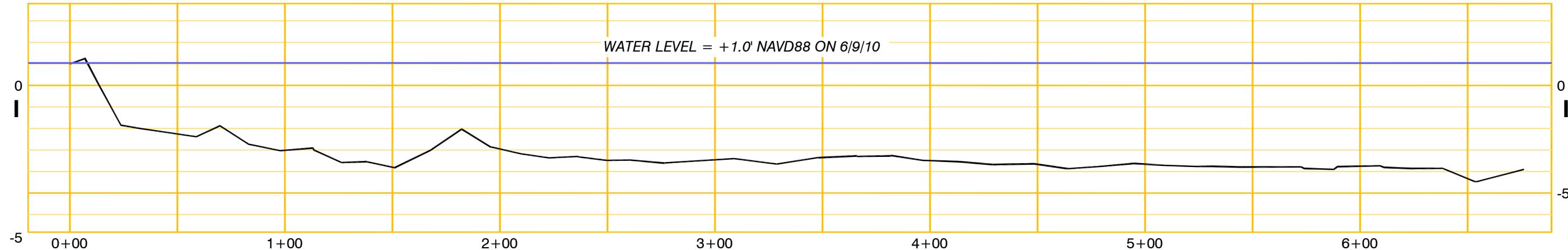
**STRUCTURE 4 TO STRUCTURE 4A - 4B**

SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

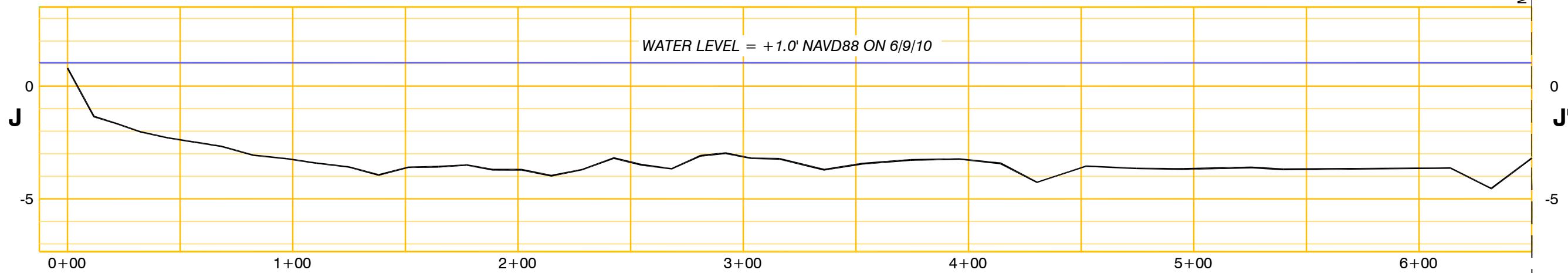
**JOHN CHANCE**  
LAND SURVEYS, INC.



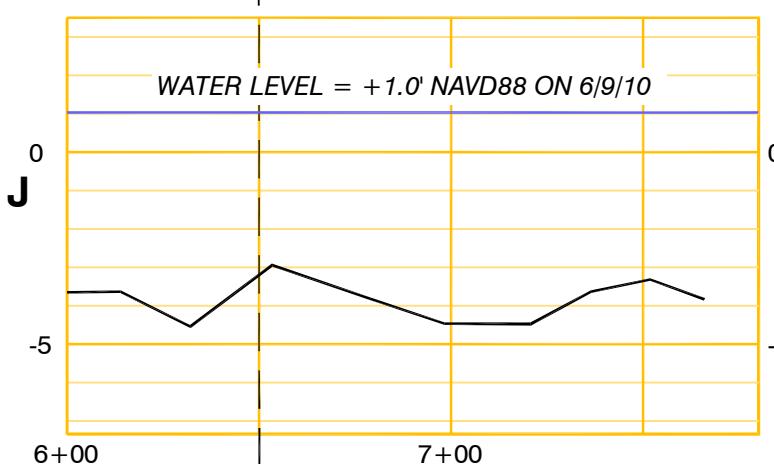
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**CROSS SECTION I**



**CROSS SECTION J**



**CROSS SECTION J**

**STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS**

Horizontal Scale 1"=50'  
Vertical Scale 1"=5'

**NOTE:**  
SURVEY DATA COLLECTED FROM 2010 .



Coastal Protection & Restoration  
**Authority of Louisiana, OCPR**

GIWW to Clovelly Hydrologic Restoration (BA-02)

**STRUCTURE 4 TO STRUCTURE 4A - 4B**

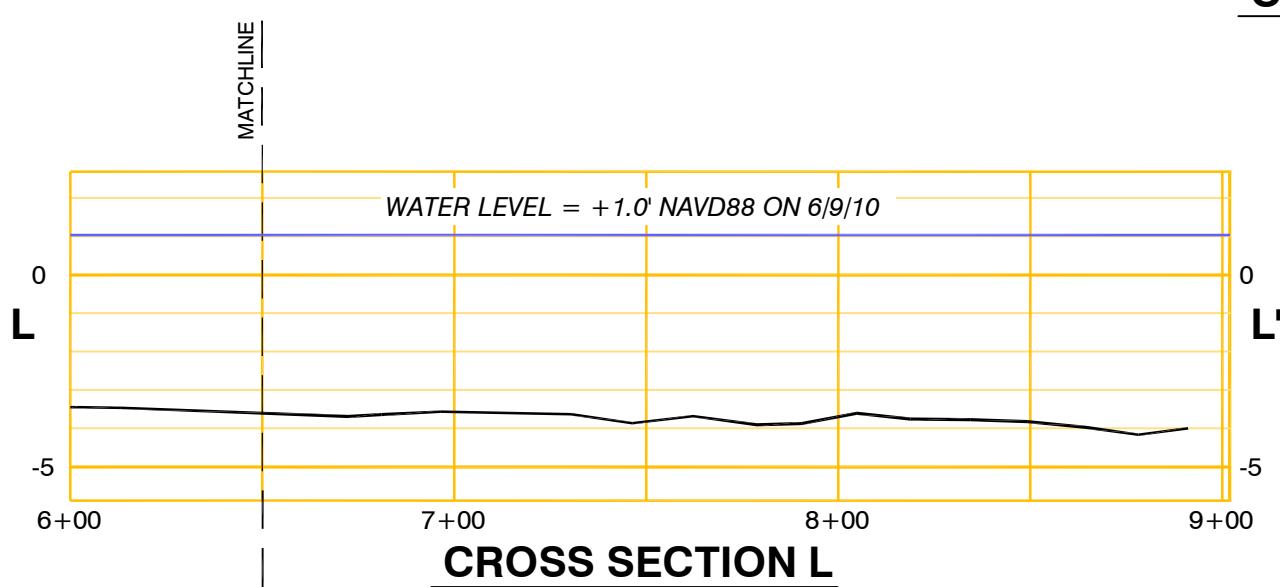
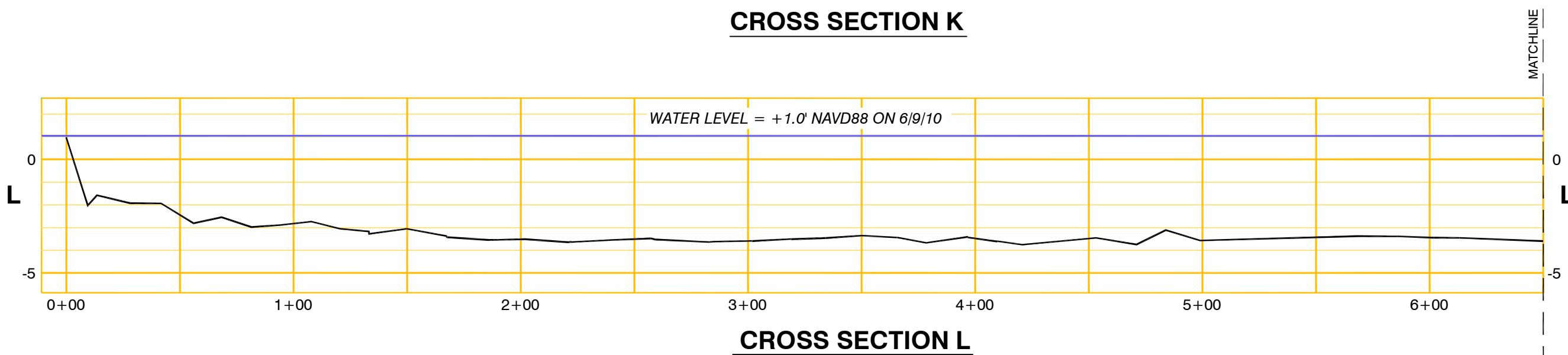
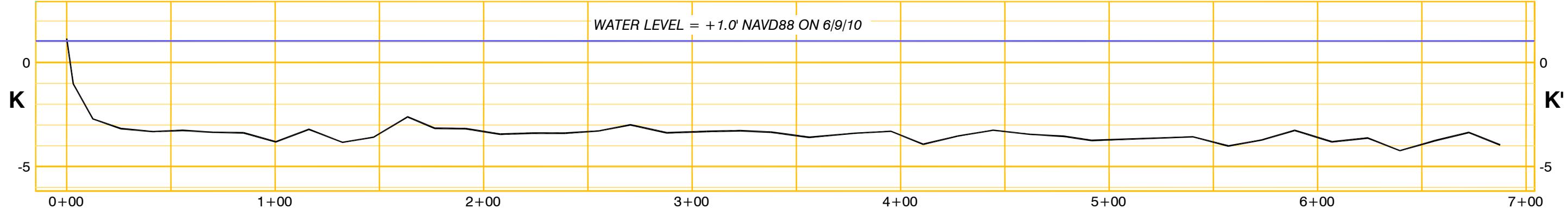
SECTION 016, T18S-R22E

LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83	SCALE AS SHOWN
ZONE: LOUISIANA SOUTH	
GRID UNITS: US SURVEY FEET	
Proj. Mgr.: RMS Revised: Printed: 7/1/10	Date: 6/28/10 Drwn: RMS/CJT Dwgfile: L:\2010\100282\CAD\B100282C
	Chart: Of: 9 11



### STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS

Horizontal Scale 1"=50'  
Vertical Scale 1"=5'

**NOTE:**  
SURVEY DATA COLLECTED FROM 2010 .



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

GIWW to Clovelly Hydrologic Restoration (BA-02)

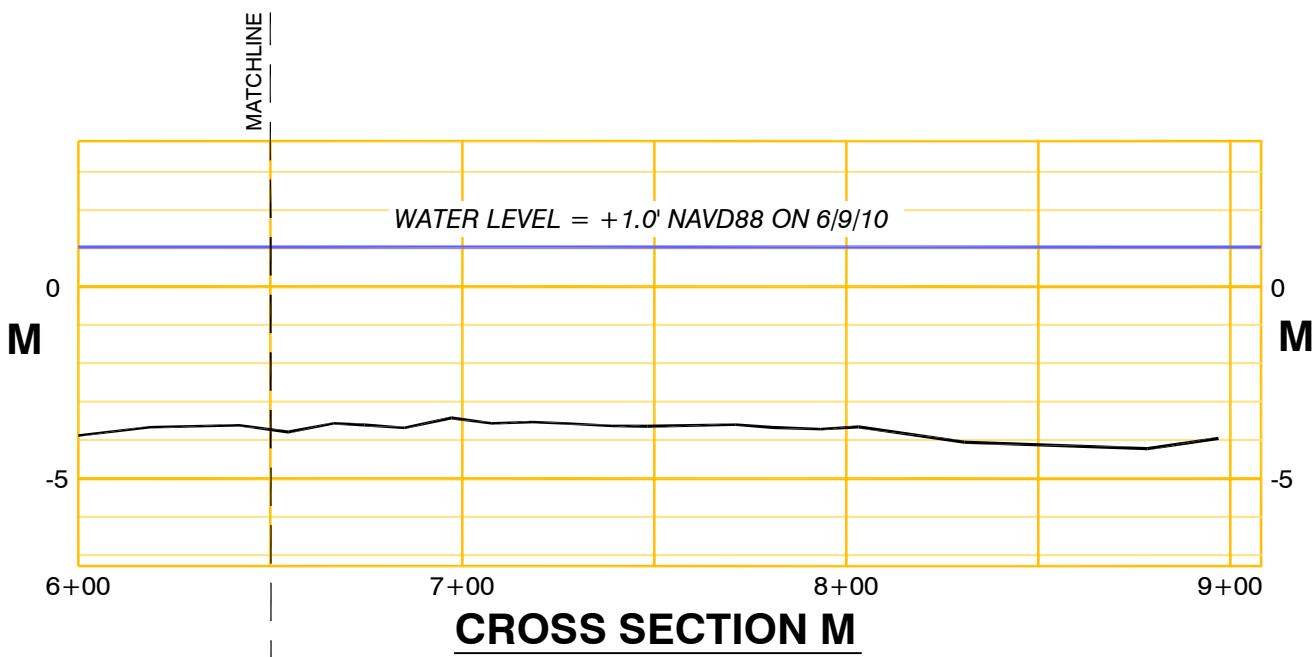
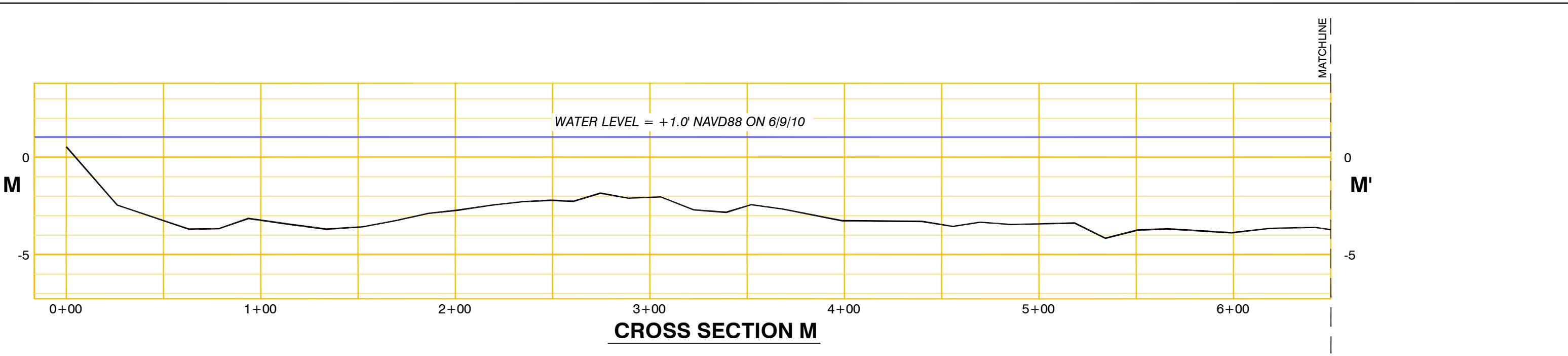
**STRUCTURE 4 TO STRUCTURE 4A - 4B**

SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83	SCALE AS SHOWN
ZONE: LOUISIANA SOUTH	
GRID UNITS: US SURVEY FEET	
Proj. Mgr.: RMS Revised: Printed: 7/1/10	Date: 6/28/10 Drwn: RMS/CJT Dwgfile: L:\2010\100282\CAD\B100282C Chart: Of: 10 11



### STRUCTURE 4 TO STRUCTURE 4A - 4B CROSS SECTIONS

Horizontal Scale 1"=50'  
Vertical Scale 1"=5'

**NOTE:**  
SURVEY DATA COLLECTED FROM 2010 .



Coastal Protection & Restoration  
Authority of Louisiana, OCPR

GIWW to Clovelly Hydrologic Restoration (BA-02)

**STRUCTURE 4 TO STRUCTURE 4A - 4B**

SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83	SCALE AS SHOWN
ZONE: LOUISIANA SOUTH	
GRID UNITS: US SURVEY FEET	
Proj. Mgr.: RMS Revised: Printed: 7/1/10	Job No.: 10-0282 Date: 6/28/10 Drwn: RMS/CJT Dwgfile: L:\2010\100282\CAD\B100282C
	Chart: Of: 11 11



# T18-R22E

GRID NORTH



## PLAN VIEW

Scale 1" = 30'



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

### GIWW Clovelly Hydrologic Restoration (BA-02)

#### STRUCTURE 2

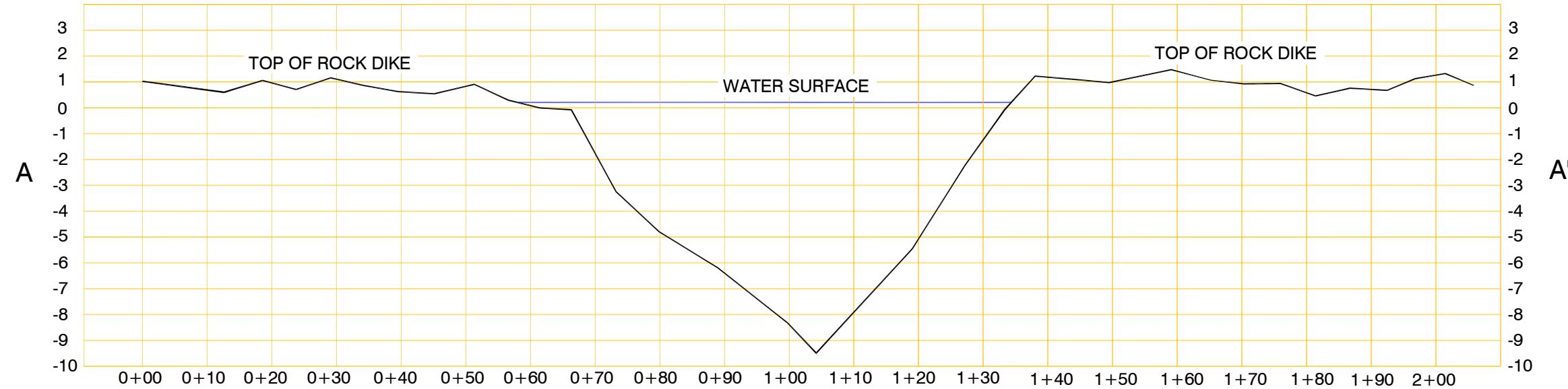
SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



NOTE: SURVEY DATA COLLECTED FROM 2008

GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE 0 IN FEET
Proj. Mgr.: RMJ Revised: 8/26/10 Printed: 8/27/10	30'
Job No.: 10-0282 Dwgfile: L:\2010\100282\CAD\B100282B	Date: 6/28/10 Drwn: WWS/RMS



## STRUCTURE 2 PROFILE

Horizontal Scale 1" = 20'  
Vertical Scale 1" = 5'

NOTE: SURVEY DATA COLLECTED FROM 2008



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

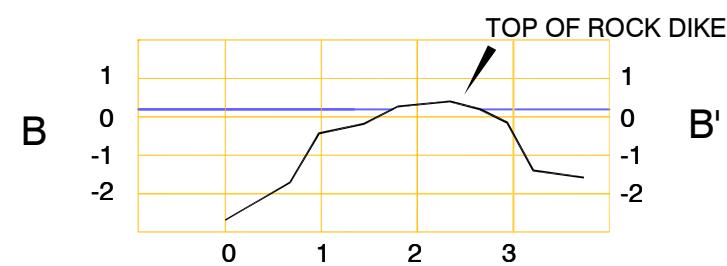
### GIWW Clovelly Hydrologic Restoration (BA-02)

#### STRUCTURE 2

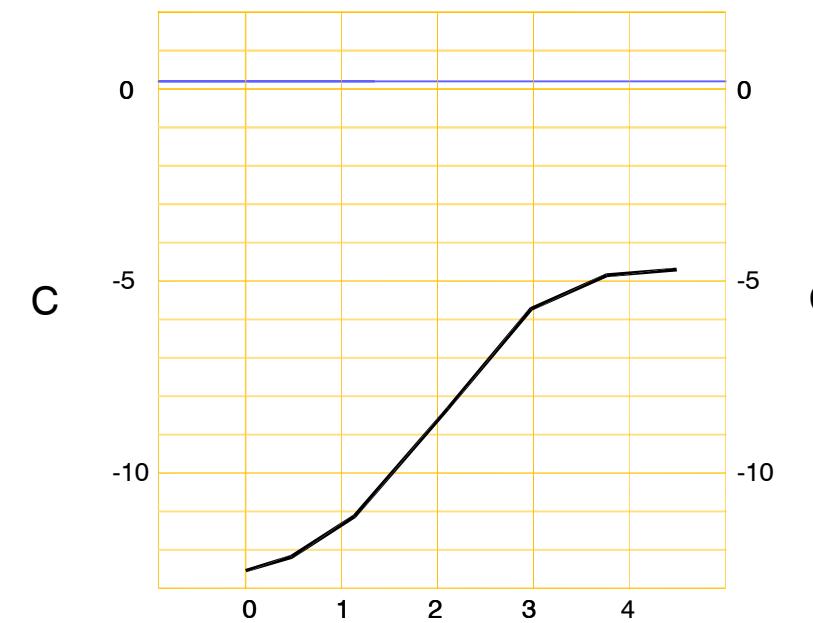
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LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**   
LAND SURVEYS, INC.

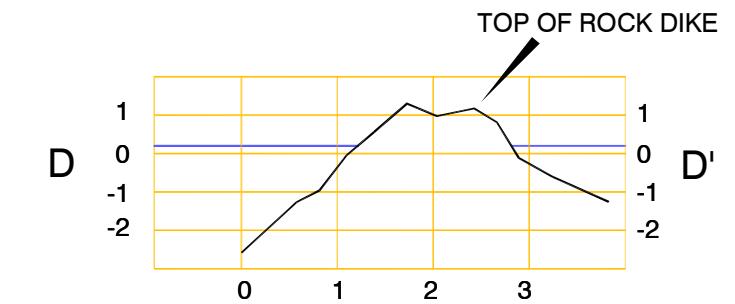
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Proj. Mgr.: RMJ Revised: Printed: 8/27/10	Job No.: 10-0282 Dwgfile: L:\2010\100282\CAD\B100282B	Date: 6/28/10 Drwn: WWS	Chart: Of: 2 7



NORTH SIDE OF STRUCTURE 2 (B-B')



CENTER OF STRUCTURE 2 (C-C')



SOUTH SIDE OF STRUCTURE 2 (D-D')

## Structure 2 Cross Sections

Horizontal Scale 1" = 20'  
Vertical Scale 1" = 5'

NOTE: SURVEY DATA COLLECTED FROM 2008



Coastal Protection & Restoration  
**Authority of Louisiana, CPRA**

**GIWW Clovelly Hydrologic Restoration (BA-02)**  
**STRUCTURE 2**

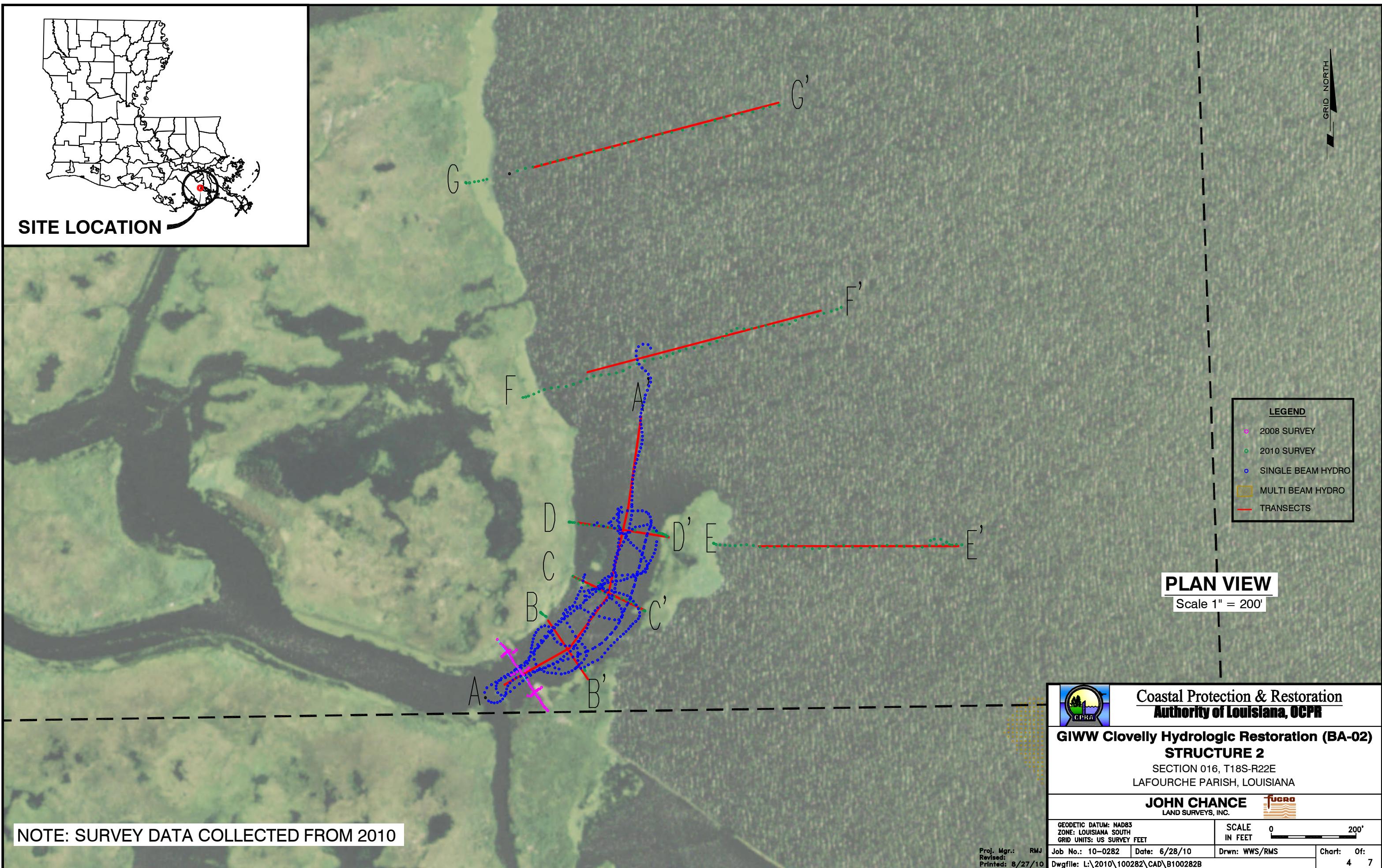
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LAFOURCHE PARISH, LOUISIANA

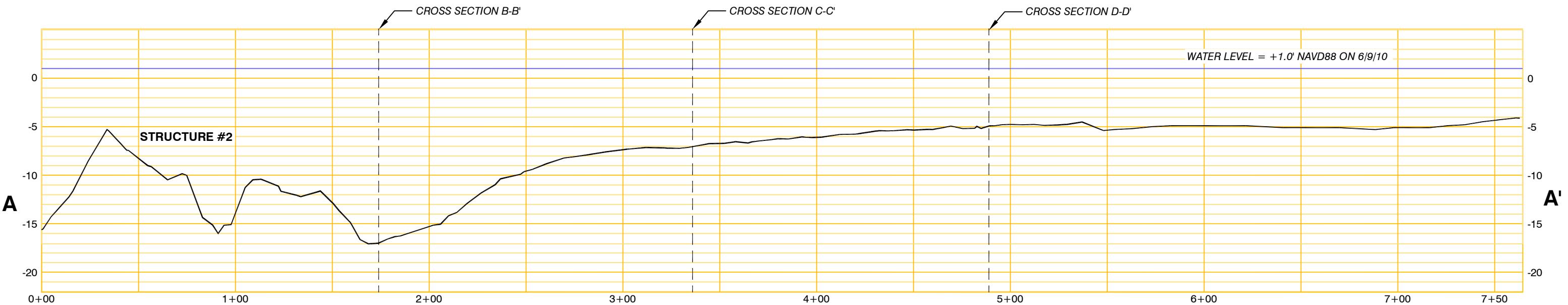
**JOHN CHANCE**   
LAND SURVEYS, INC.

GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE AS SHOWN	
Proj. Mgr.: RMJ Revised: Printed: 8/27/10	Job No.: 10-0282 Date: 6/28/10 Dwgfile: L:\2010\100282\CAD\B100282B	Drwn: WWS	Chart: Of: 3 7



**SITE LOCATION**





### STRUCTURE 2 PROFILE

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 50'

NOTE: SURVEY DATA COLLECTED FROM 2010



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

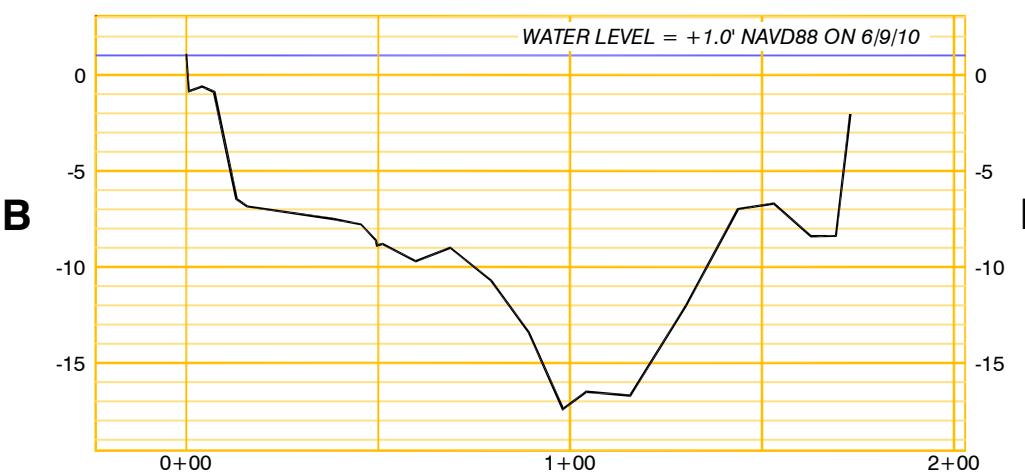
#### GIWW Clovelly Hydrologic Restoration (BA-02)

#### STRUCTURE 2

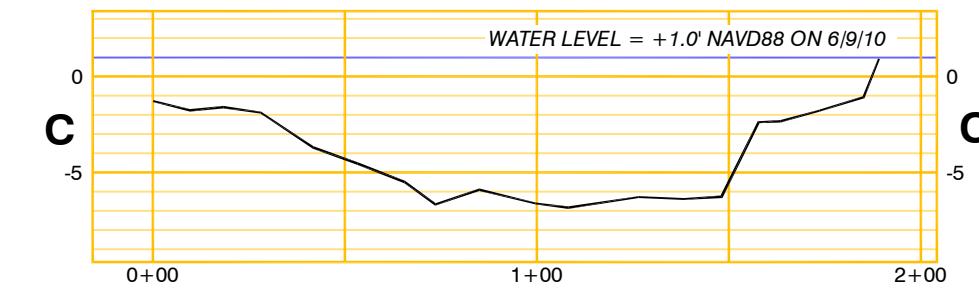
SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

JOHN CHANCE   
LAND SURVEYS, INC.

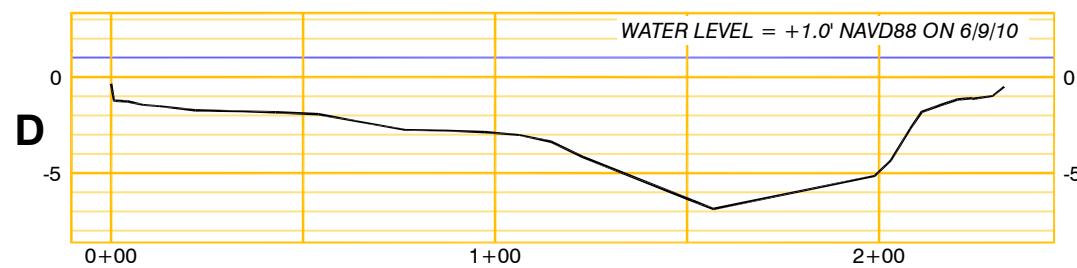
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Printed: 8/27/10		Dwgfile: L:\2010\100282\CAD\B100282B	Chart: Of: 5 7



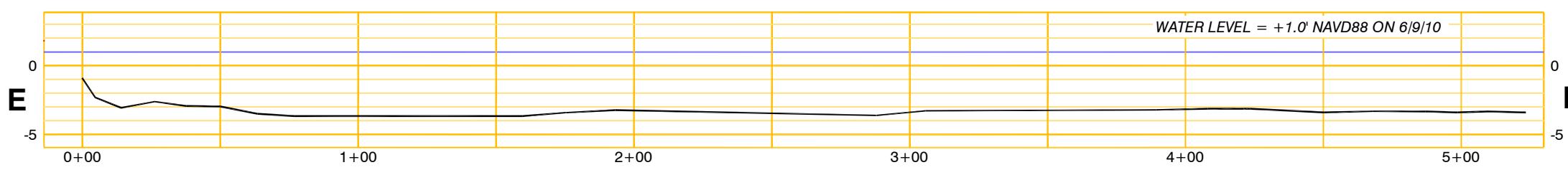
CROSS SECTION B



CROSS SECTION C



CROSS SECTION E



CROSS SECTION E

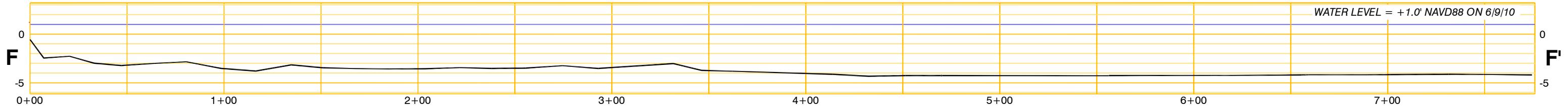
**STRUCTURE 2 CROSS SECTIONS**

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 50'

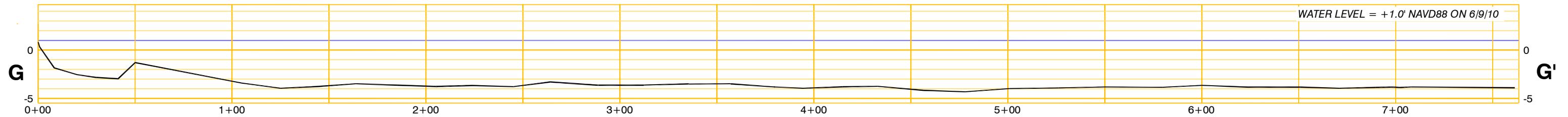
NOTE: SURVEY DATA COLLECTED FROM 2010

Proj. Mgr.: RMJ	Revised:	Printed: 8/27/10	Drwn: WWS	Chart: Of:
Job No.: 10-0282	Date: 6/28/10	Dwgfile: L:\2010\100282\CAD\B100282B		6 7

	Coastal Protection & Restoration Authority of Louisiana, CPRA	
	GIWW Clovelly Hydrologic Restoration (BA-02)	STRUCTURE 2
SECTION 016, T18S-R22E		
LAFOURCHE PARISH, LOUISIANA		
JOHN CHANCE	FUGRO	LAND SURVEYS, INC.
GEOGRAPHIC DATUM: NAD83	SCALE AS SHOWN	
ZONE: LOUISIANA SOUTH		
GRID UNITS: US SURVEY FEET		



**CROSS SECTION F**



**CROSS SECTION G**

**STRUCTURE 2 CROSS SECTIONS**

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 50'

NOTE: SURVEY DATA COLLECTED FROM 2010



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

**GIWW Clovelly Hydrologic Restoration (BA-02)**

**STRUCTURE 2**

SECTION 016, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**   
LAND SURVEYS, INC.

GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE AS SHOWN	
Proj. Mgr.: RMJ Revised: Printed: 8/27/10	Job No.: 10-0282 Date: 6/28/10	Drwn: WWS	Chart: Of: 7 7

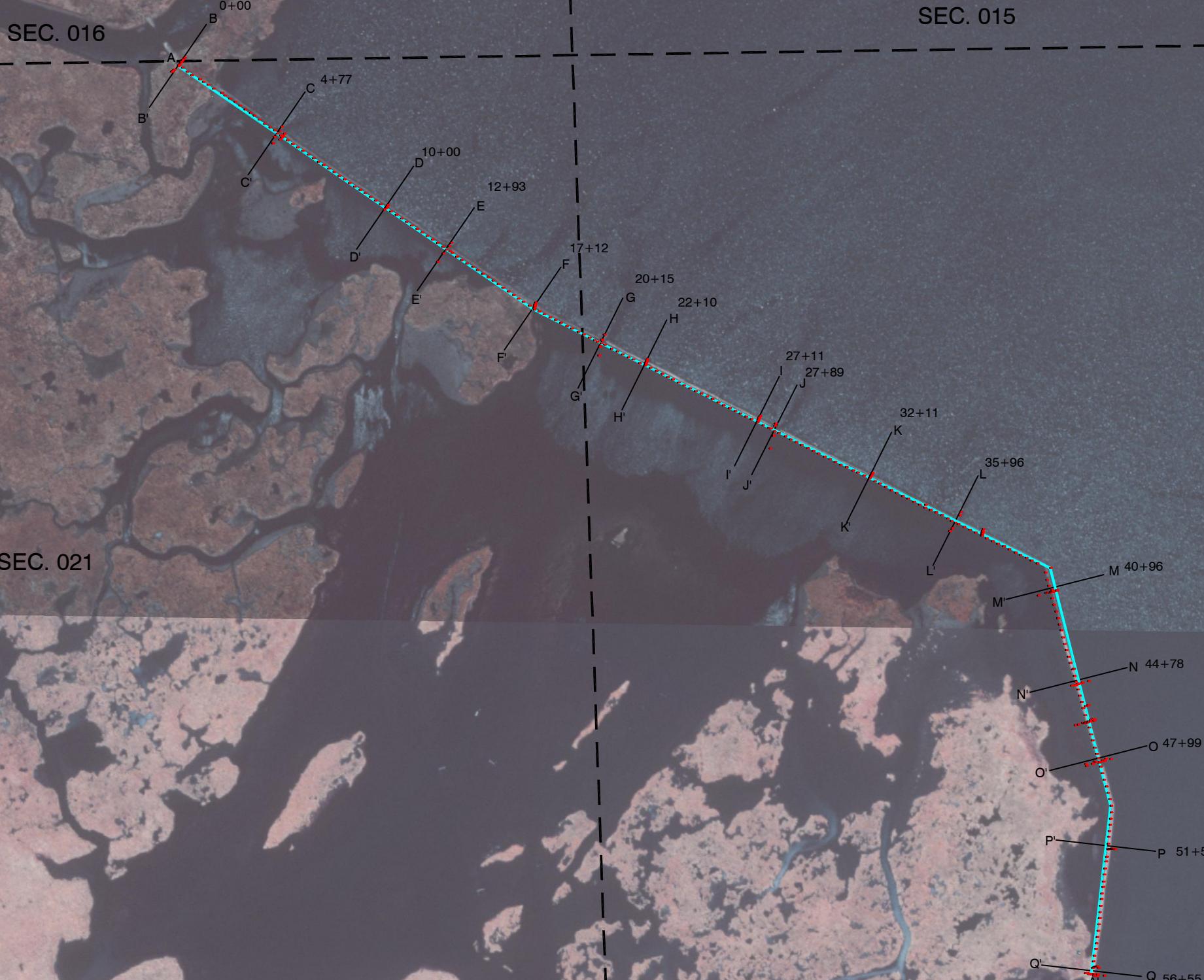
T18S-R22E

SEC. 016

SEC. 015

SEC. 021

SEC. 022



**PLAN VIEW**

Scale = 1":500'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

**GIWW to Clovelly Hydrologic Restoration (BA-02)  
LAKE RIM**

LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE  
IN FEET  
0 500'

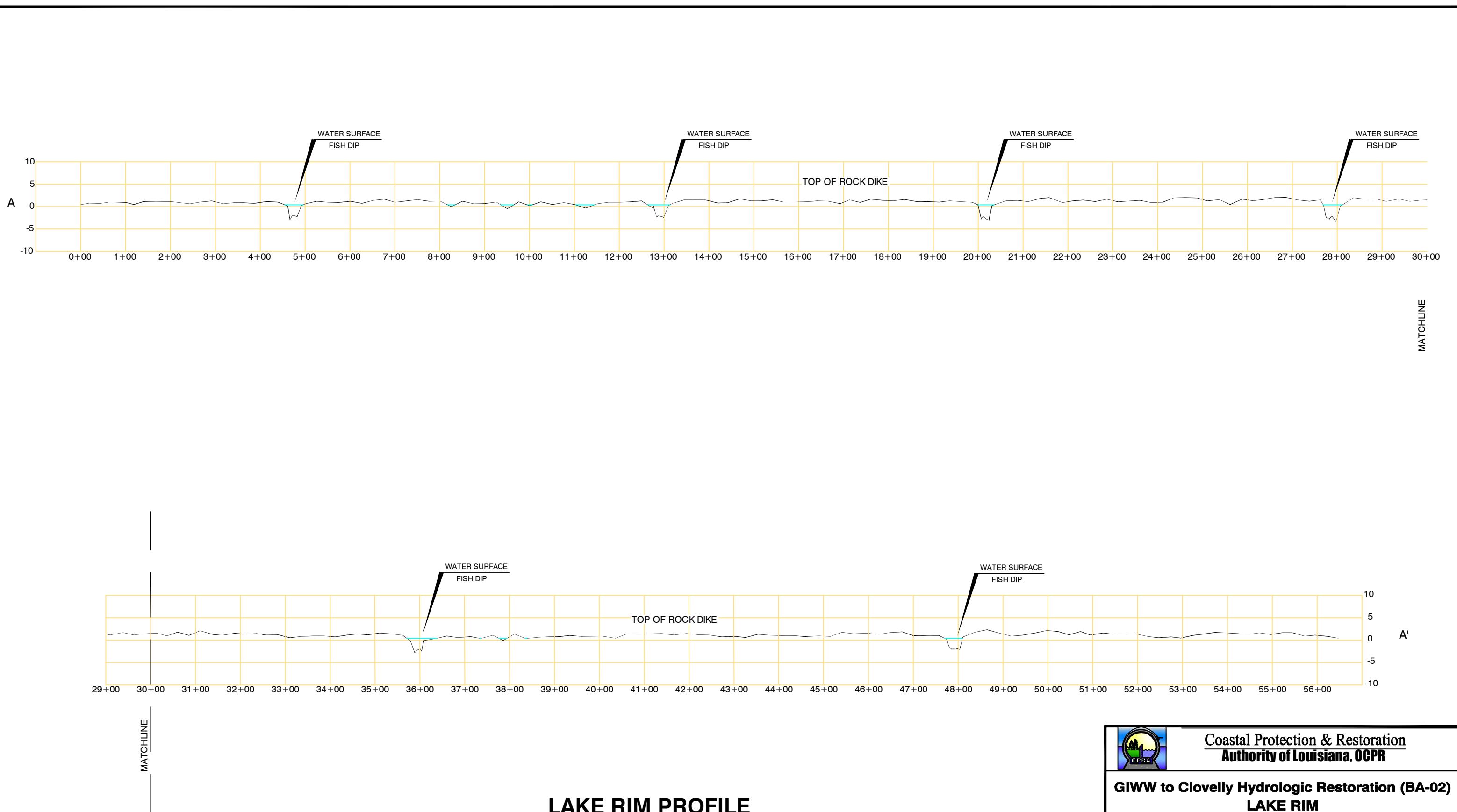
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Revised:  
Printed: 8/27/10

Date: 2/6/09  
Drwn: VIT  
Dwgfile: L:\2010\100282\CAD\B100282A\_1

GRID NORTH

NOTE: SURVEY DATA COLLECTED FROM 2008

Chart: Of:  
1 20



## LAKE RIM PROFILE

Horizontal Scale 1":200'  
Vertical Scale 1":20'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

### GIWW to Clovelly Hydrologic Restoration (BA-02)

#### LAKE RIM

LAFOURCHE PARISH, LOUISIANA

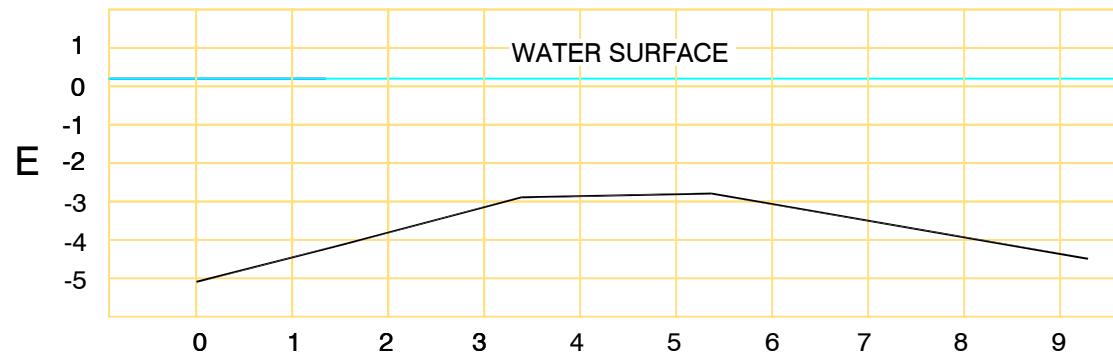
JOHN CHANCE  
LAND SURVEYS, INC.



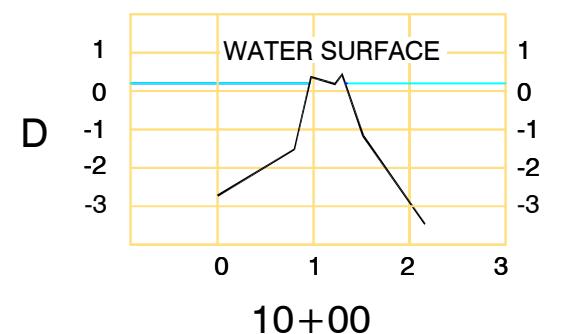
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ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Proj. Mgr.: RMJ	Job No.: 10-0282	Date: 2/6/09	Drwn: VIT	Chart: Of:
Revised: Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282A_1			2 20

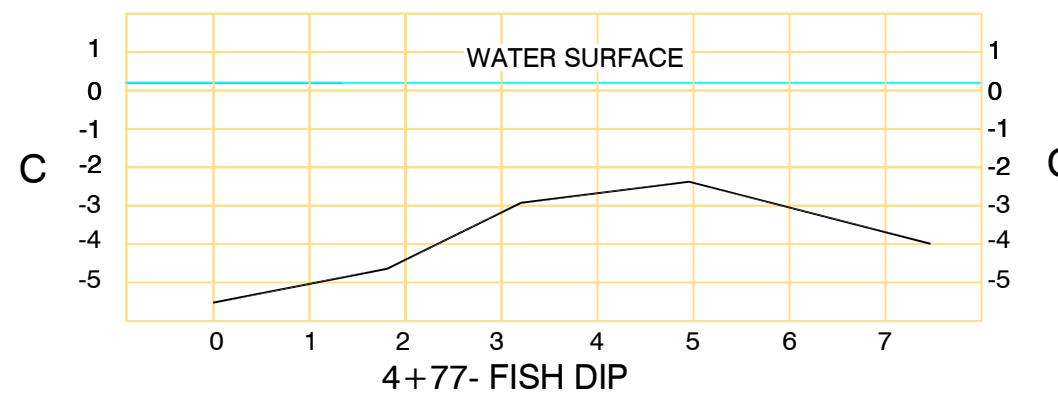


E'

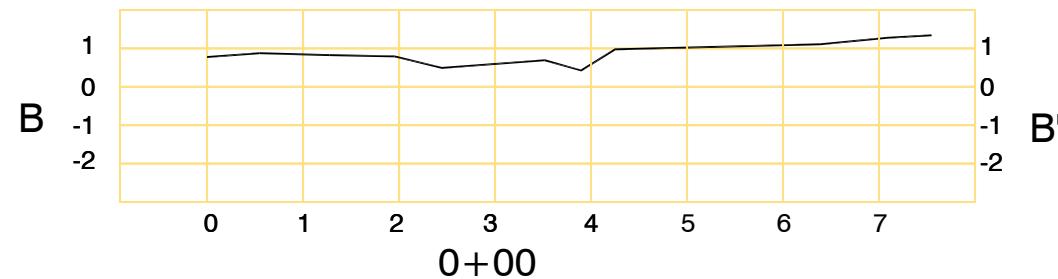
12+93- FISH DIP

D'

10+00

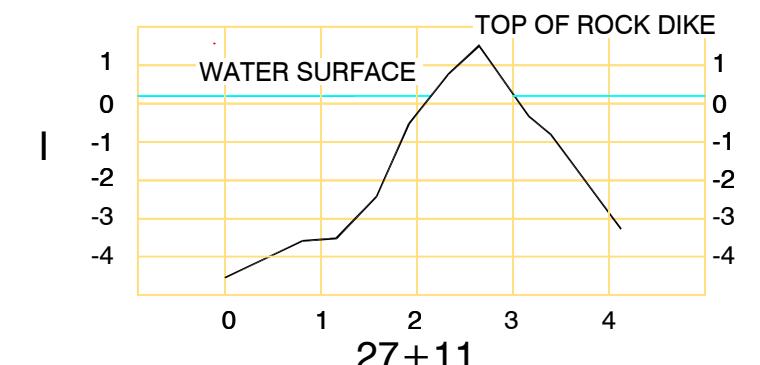


C'

4+77- FISH DIP

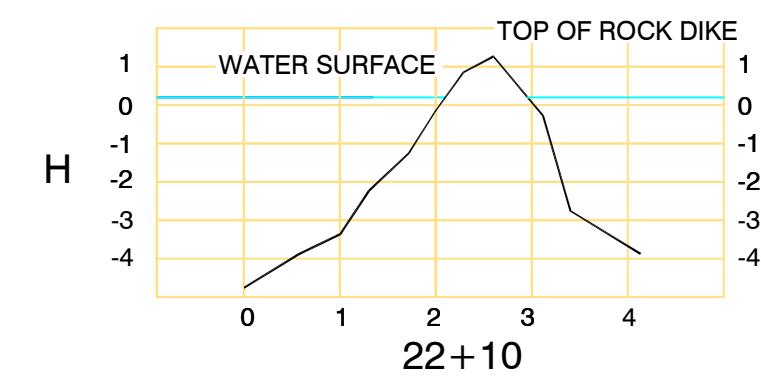
B'

0+00



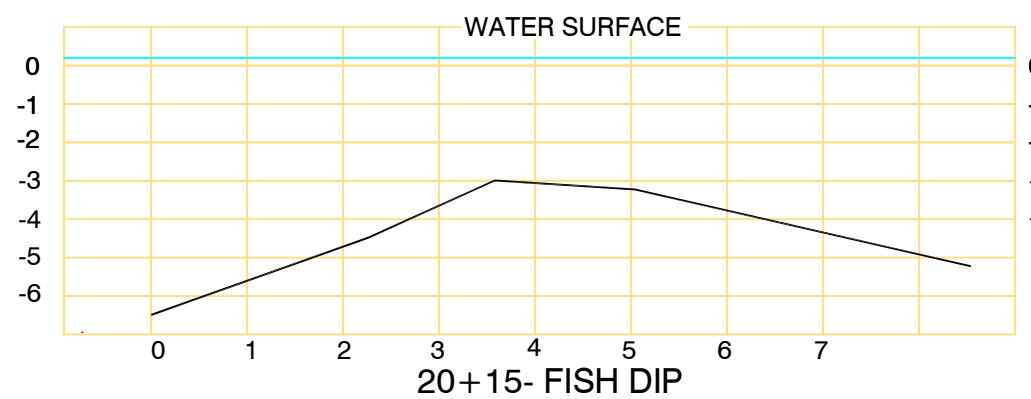
I'

27+11

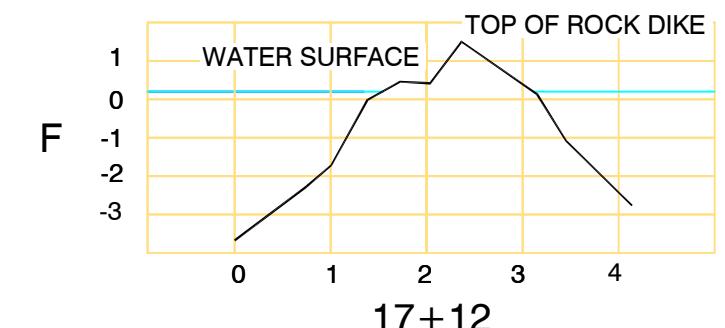


H'

22+10



G'

20+15- FISH DIP

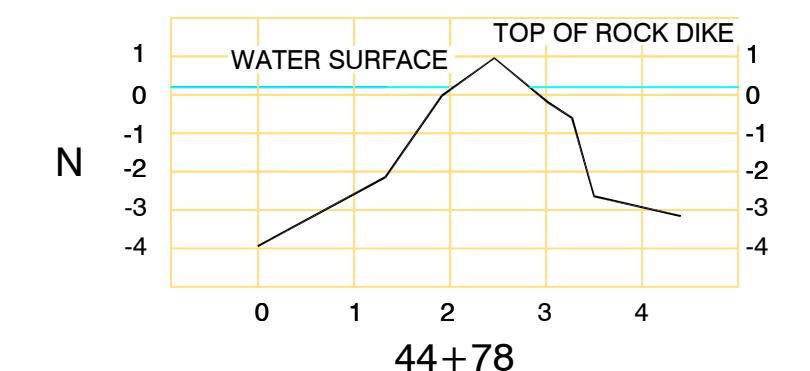
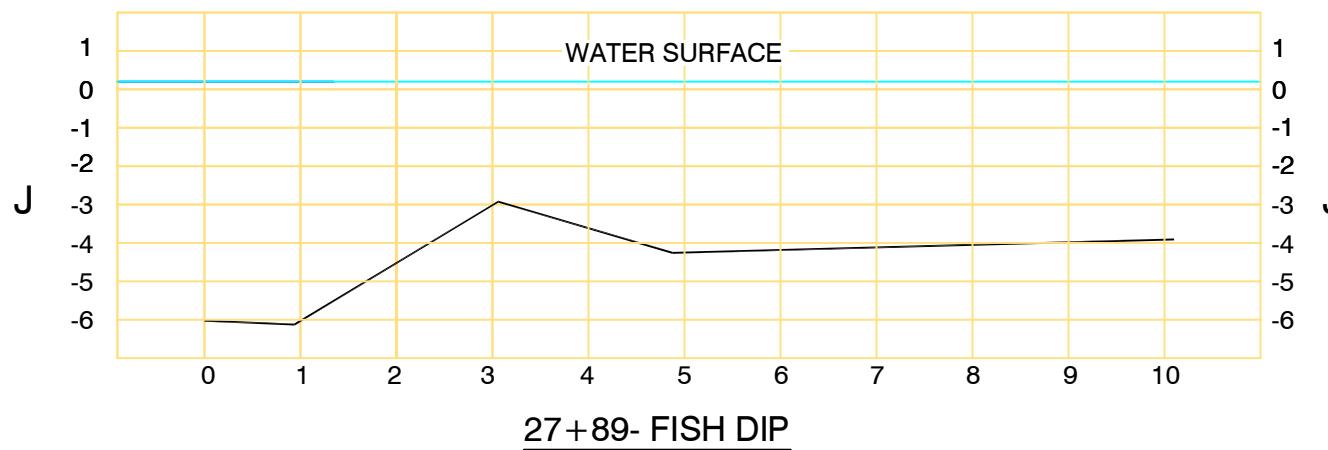
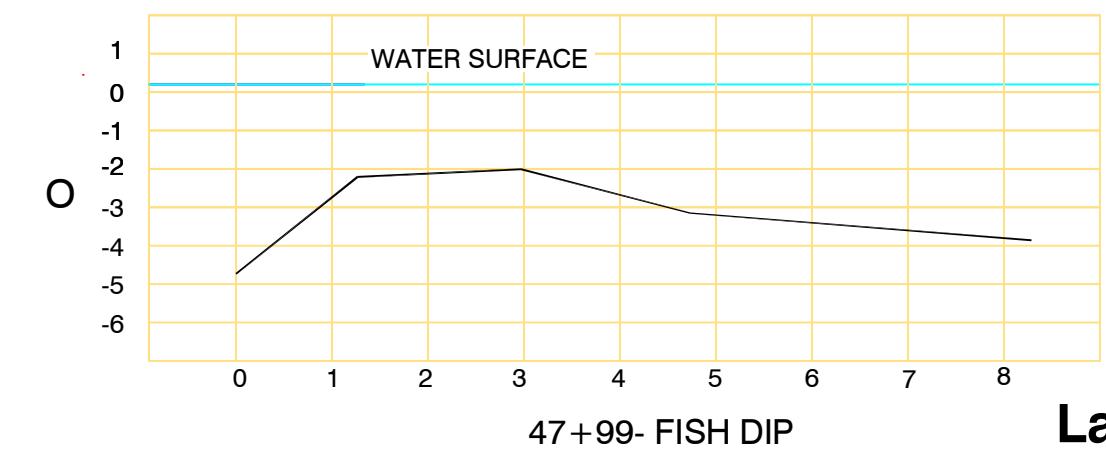
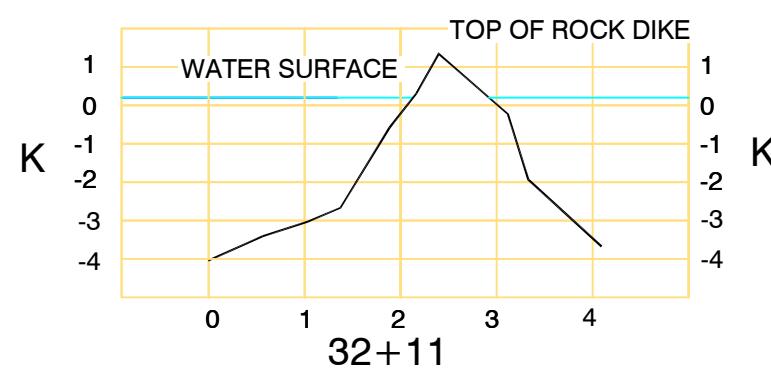
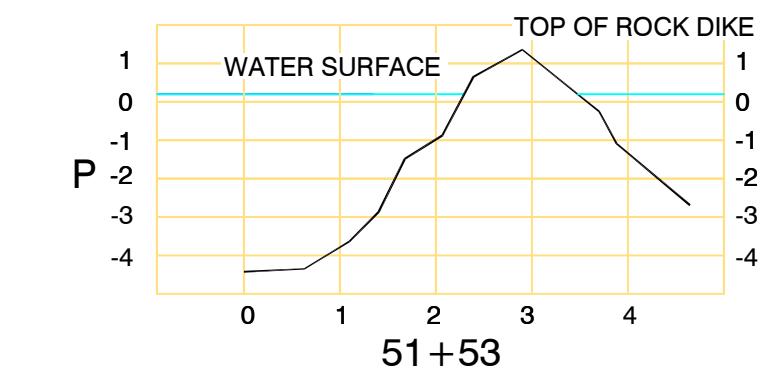
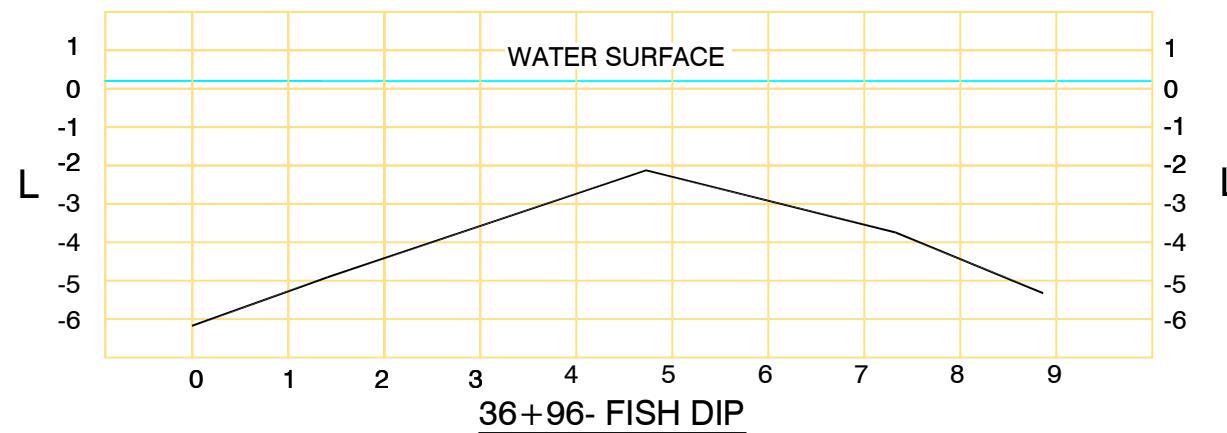
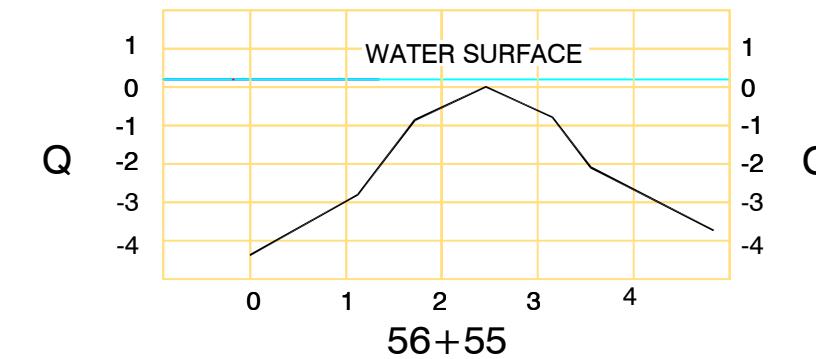
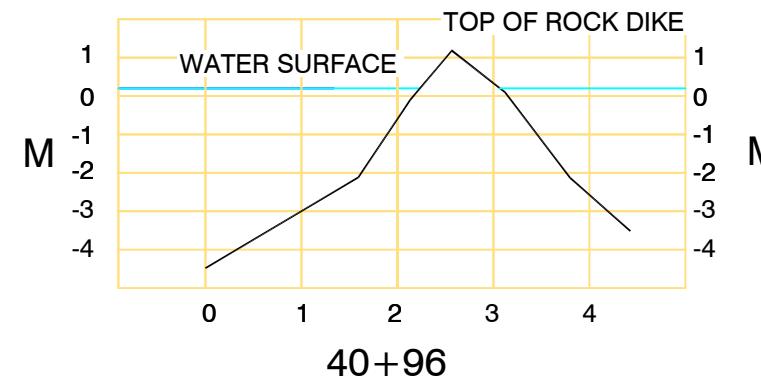
F'

17+12

## Lake Rim Cross Sections

Horizontal Scale 1":20'  
Vertical Scale 1":5'

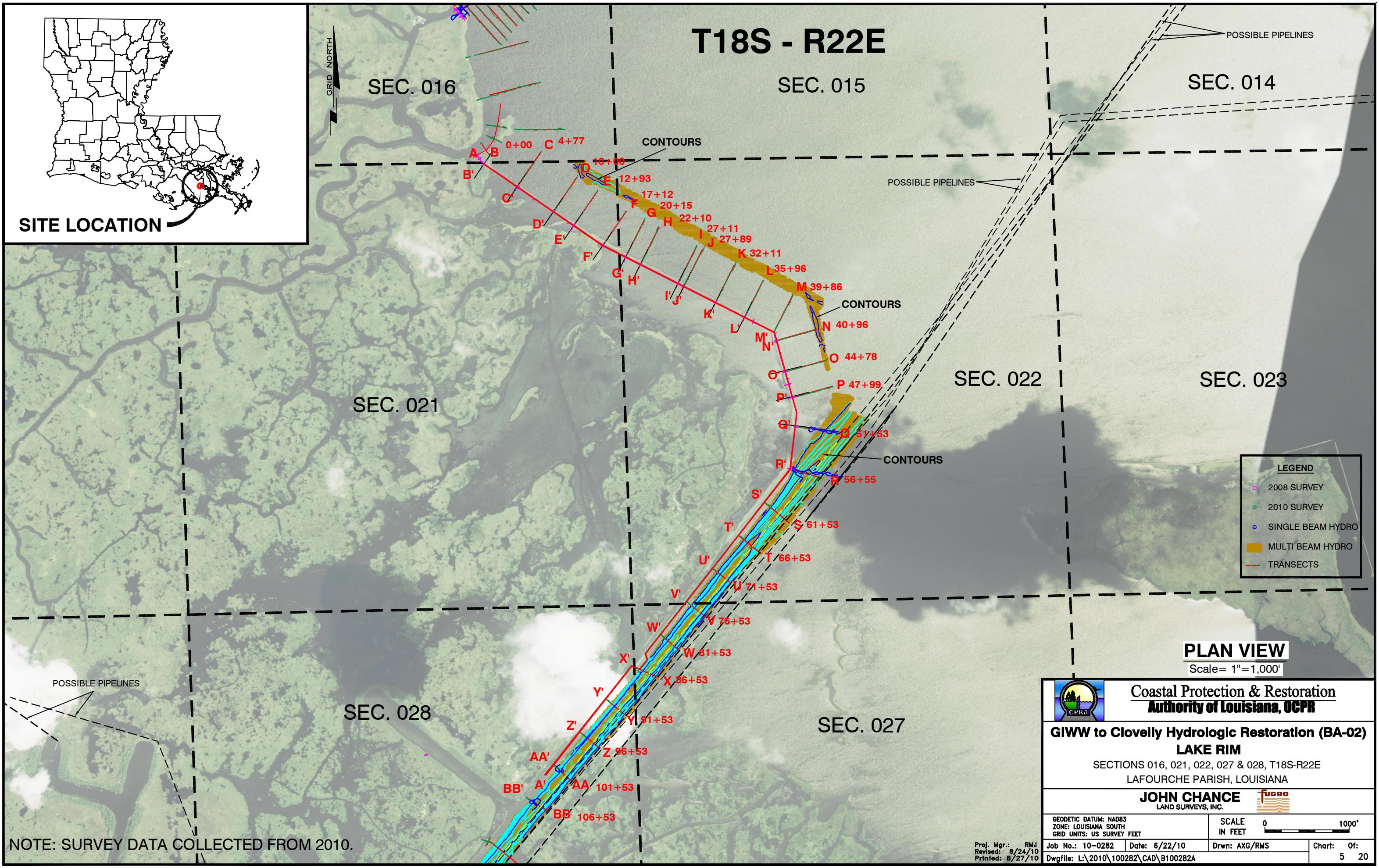
	Coastal Protection & Restoration <b>Authority of Louisiana, CPRA</b>
<b>GIWW to Clovelly Hydrologic Restoration (BA-02) LAKE RIM</b>	
LAFOURCHE PARISH, LOUISIANA	
<b>JOHN CHANCE</b> LAND SURVEYS, INC.	
GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN
Proj. Mgr.: RMJ Revised: Printed: 8/27/10	Job No.: 10-0282 Date: 2/6/09 Drwn: VIT
	Dwgfile: L:\2010\100282\CAD\B100282A_1
	Chart: Of: 3 20

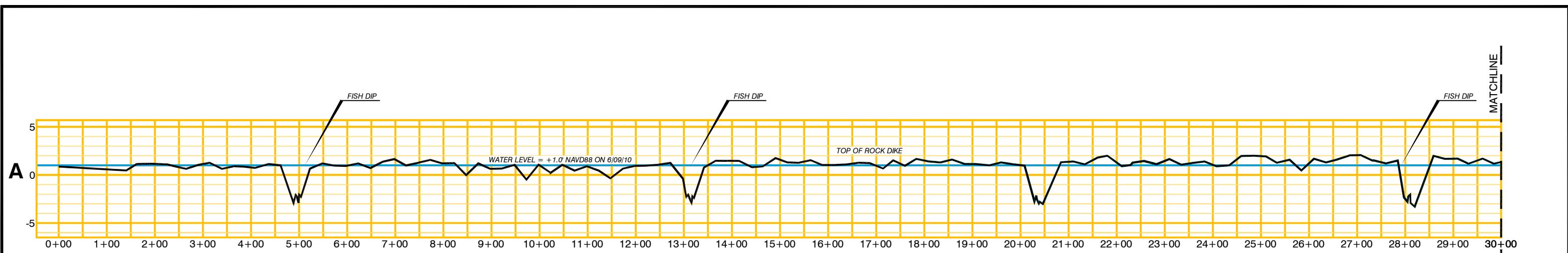


## Lake Rim Cross Sections

Horizontal Scale 1":20'  
Vertical Scale 1":5'

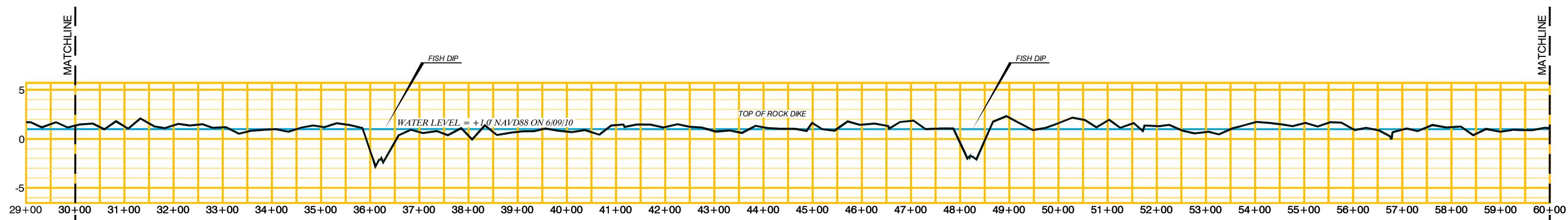
 <b>Coastal Protection &amp; Restoration Authority of Louisiana, CPRA</b>	<b>GIWW to Clovelly Hydrologic Restoration (BA-02) LAKE RIM</b>		
	LAFOURCHE PARISH, LOUISIANA	JOHN CHANCE	TECRO
<b>GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET</b>			
Proj. Mgr.: RMJ	Revised:	Drwn: VIT	Chart: Of:
Date: 2/6/09	Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282A_1	4 20





### LAKE RIM PROFILE

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 200'



### LAKE RIM PROFILE

VERTICAL SCALE: 1" = 10'  
HORIZONTAL SCALE: 1" = 200'



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**

#### LAKE RIM

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E

LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



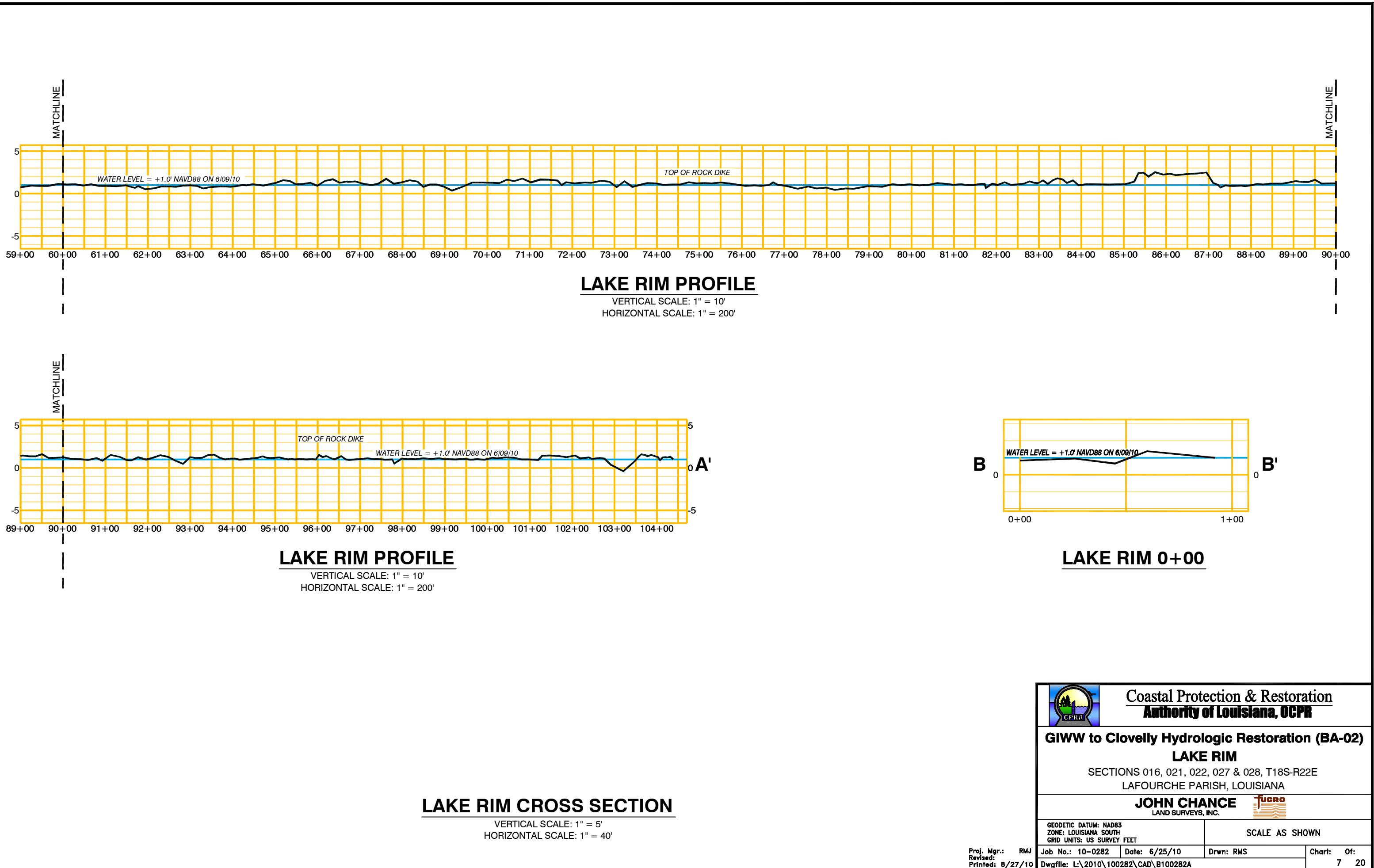
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ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

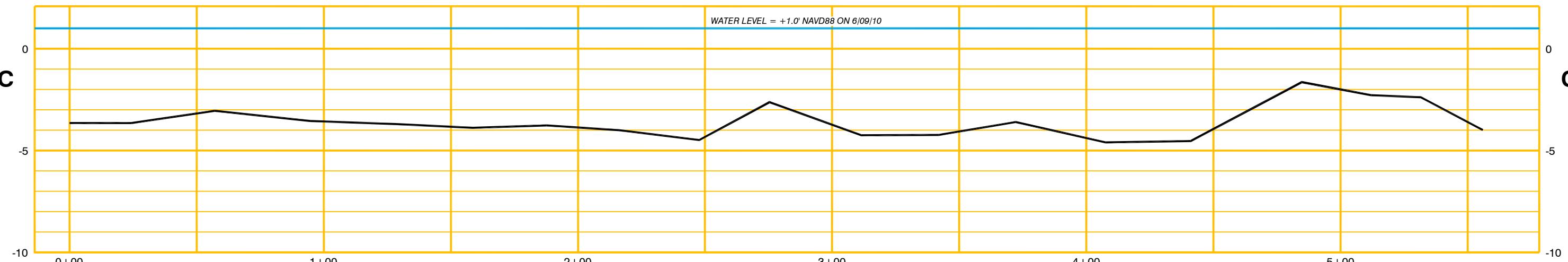
SCALE AS SHOWN

Proj. Mgr.: RMJ  
Revised:  
Printed: 8/27/10

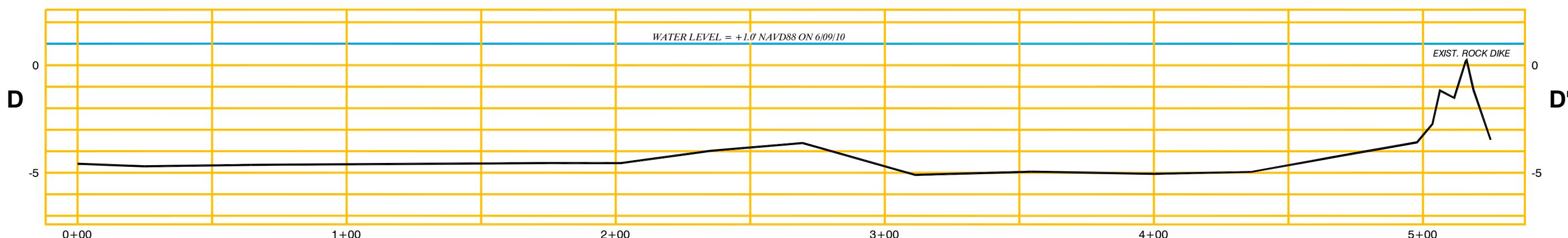
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Dwgfile: L:\2010\100282\CAD\B100282A

Chart: Of:  
6 20





## **LAKE RIM 4+77-FISH DIP**



**LAKE RIM 10+00**

## Lake Rim Cross Sections

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

## **GIWW to Clovelly Hydrologic Restoration (BA-02) LAKE BIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

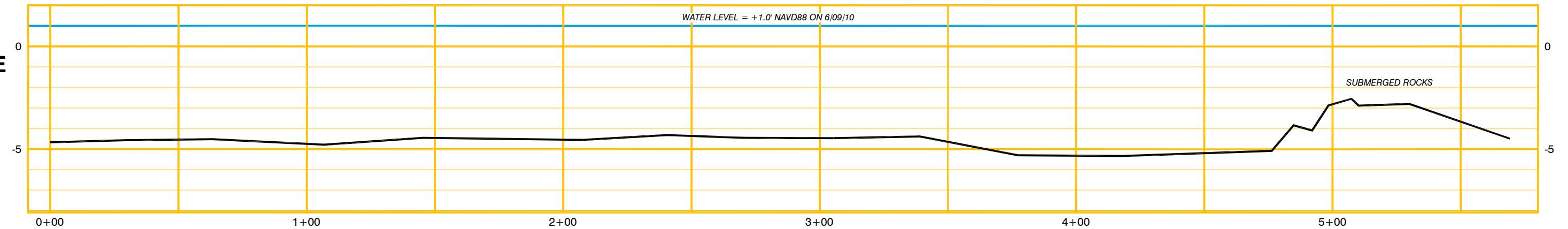
**JOHN CHANCE**  
LAND SURVEYS, INC.

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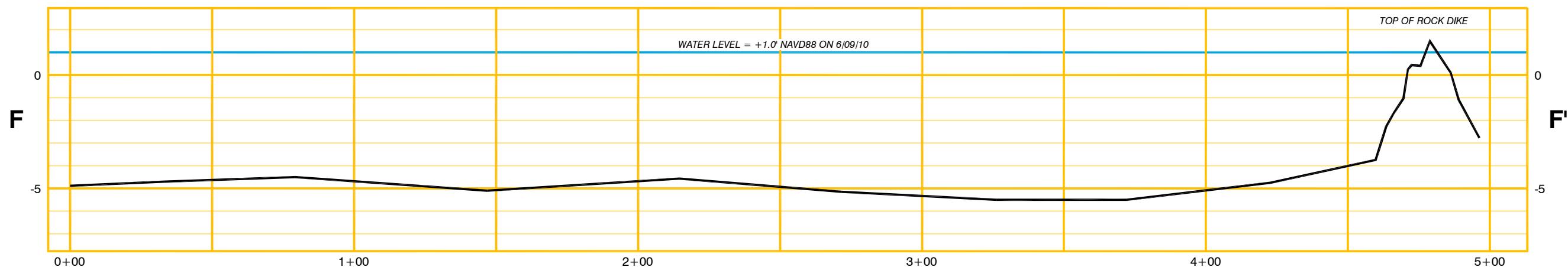
**GEODETIC DATUM: NAD83**  
**ZONE: LOUISIANA SOUTH**  
**GRID UNITS: US SURVEY FEET**

**SCALE AS SHOWN**

Job No.: 10-0282	Date: 6/25/10	Drwn: RMS	Chart: Of:
Dwgfile: L:\2010\100282\CAD\B100282A			8 20



**LAKE RIM 12+93 FISH DIP**



**LAKE RIM 17+12**

**LAKE RIM CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'

Proj. Mgr.: RMJ Revised: Printed: 8/27/10	SCALE AS SHOWN
Job No.: 10-0282	Date: 6/25/10
Dwgfile: L:\2010\100282\CAD\B100282A	Drwn: RMS
	Chart: Of:
	9 20



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**

**LAKE RIM**

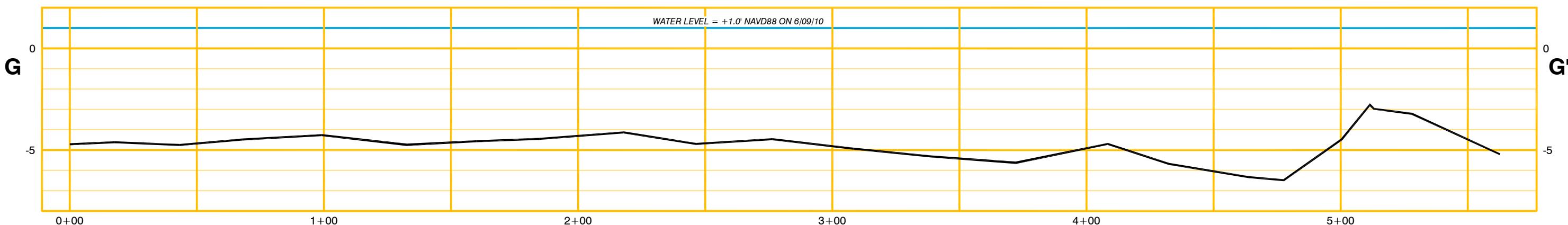
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LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

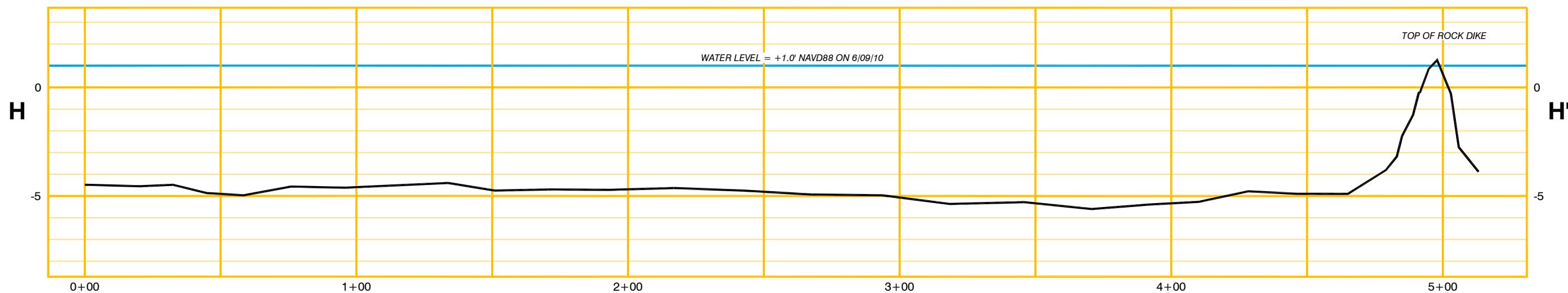


GEOEDTIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN



**LAKE RIM 20+15 FISH DIP**



**LAKE RIM 22+10**

**LAKE RIM CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

**GIWW to Clovelly Hydrologic Restoration (BA-02)  
LAKE RIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

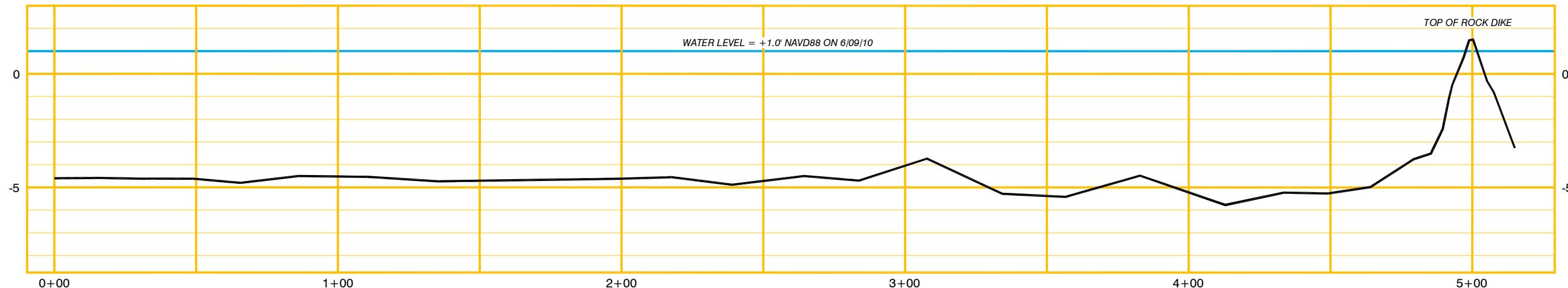
**JOHN CHANCE**  
LAND SURVEYS, INC.



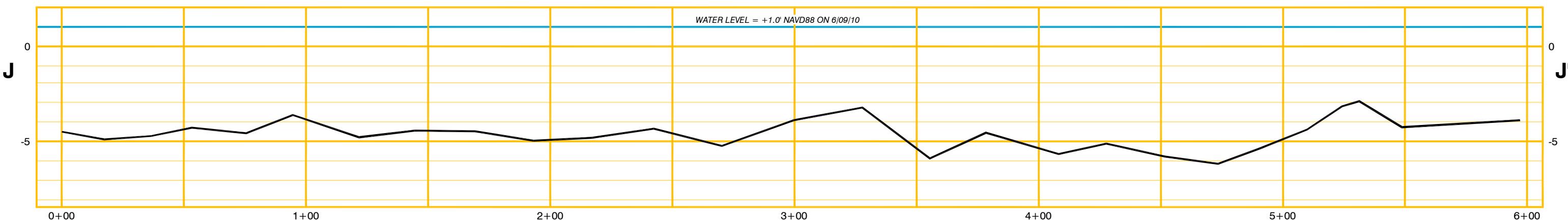
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ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Proj. Mgr.: RMJ	Date: 6/25/10	Drwn: RMS	Chart: Of:
Revised: Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282A		10 20



**LAKE RIM 27+11**



**LAKE RIM 27+89 FISH DIP**

**LAKE RIM CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**Coastal Protection & Restoration  
Authority of Louisiana, OCPR**

**GIWW to Clovelly Hydrologic Restoration (BA-02)  
LAKE RIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

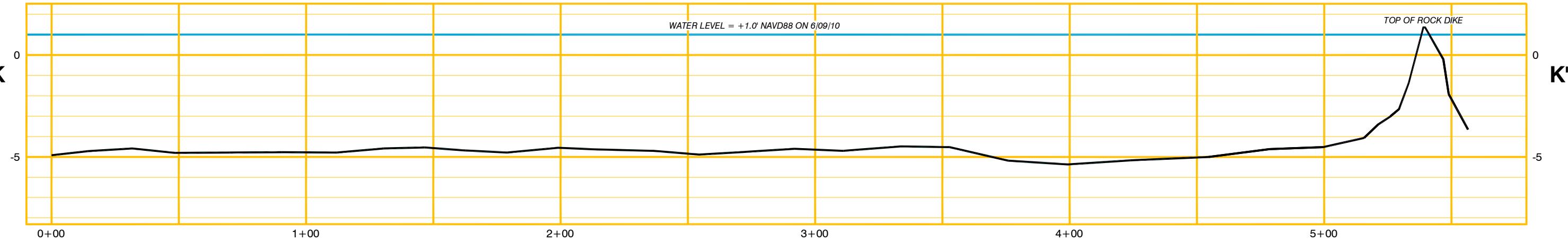
**JOHN CHANCE**  
LAND SURVEYS, INC.



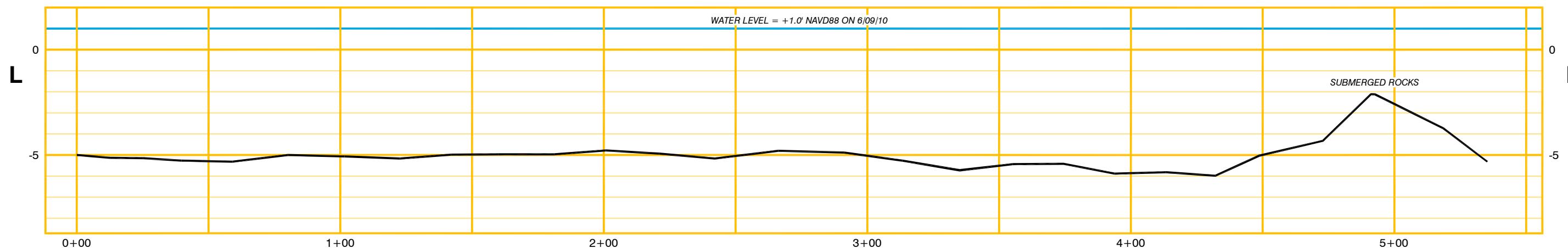
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ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Proj. Mgr.: RMJ	Revised:	Printed: 8/27/10	Date: 6/25/10	Drwn: RMS	Chart: Of:
Dwgfile: L:\2010\100282\CAD\B100282A					



**LAKE RIM 32+11**



## **LAKE RIM 35+96 FISH DIP**

## Lake Rim Cross Sections

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**Coastal Protection & Restoration  
Authority of Louisiana, OCPRA**

## **GIWW to Clovelly Hydrologic Restoration (BA-02) LAKE RIM**

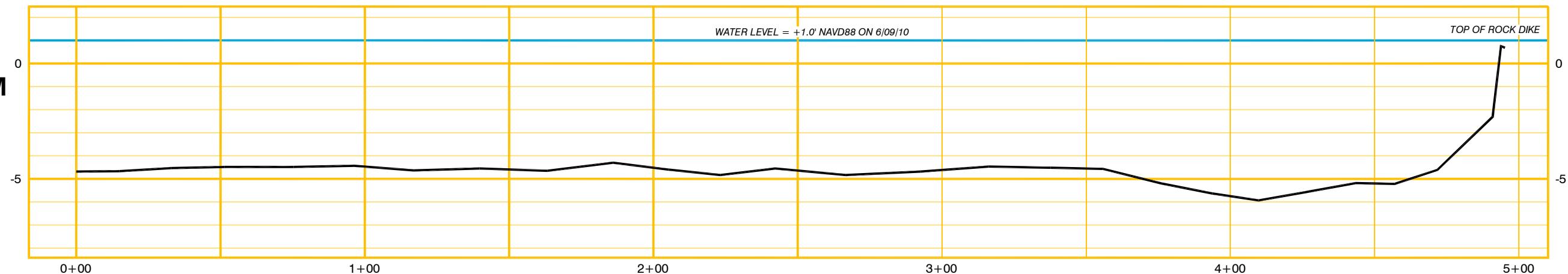
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LAFOURCHE PARISH, LOUISIANA**

# **JOHN CHANCE**

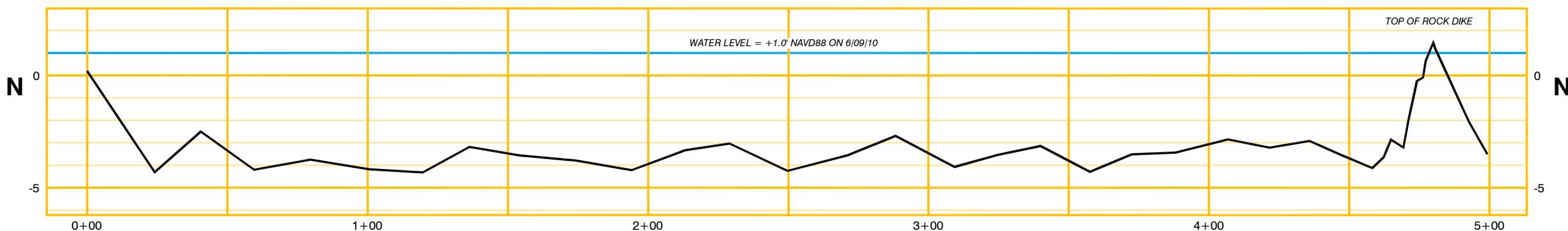
LAND SURVEYS, INC.

**GRO**

GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN		
Job No.: 10-0282	Date: 6/25/10	Drwn: RMS	Chart:
Dwgfile: L:\2010\100282\CAD\B100282A			



**LAKE RIM 39+86**

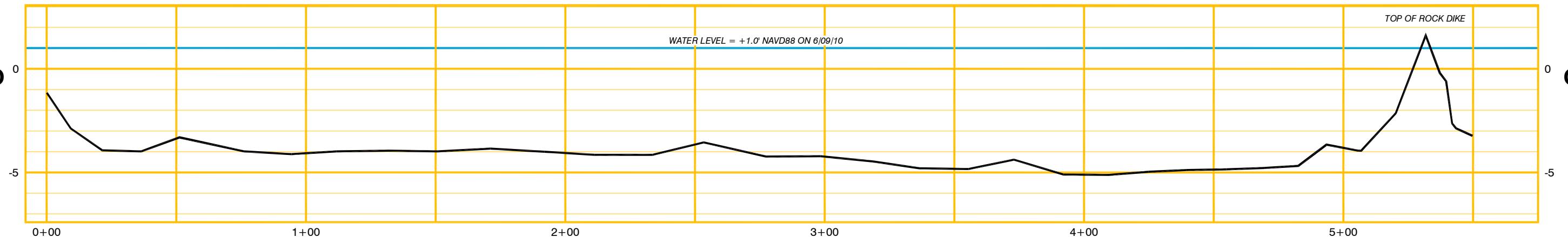


**LAKE RIM 40+96**

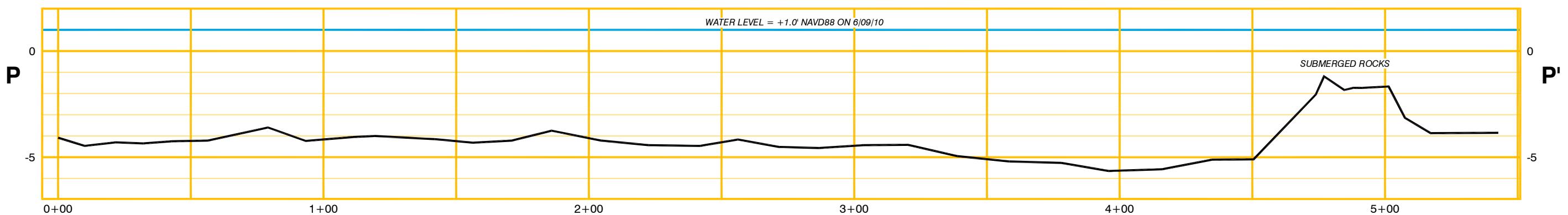
**LAKE RIM CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'

 <b>Coastal Protection &amp; Restoration Authority of Louisiana, CPRA</b>	GIWW to Clovelly Hydrologic Restoration (BA-02)				
	<b>LAKE RIM</b>				
SECTIONS 016, 021, 022, 027 & 028, T18S-R22E					
LAFOURCHE PARISH, LOUISIANA					
<b>JOHN CHANCE</b> <small>LAND SURVEYS, INC.</small>					
GEODETIC DATUM: NAD83		SCALE AS SHOWN			
ZONE: LOUISIANA SOUTH					
GRID UNITS: US SURVEY FEET					
Proj. Mgr.: RMJ	Revised:	Job No.: 10-0282	Date: 6/25/10		
Printed: 8/27/10		Drwn: RMS	Chart: Of:		
Dwgfile: L:\2010\100282\CAD\B100282A			13 20		



LAKE RIM 44+78



LAKE RIM 47+99 FISH DIP

**LAKE RIM CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'

Proj. Mgr.: RMJ  
Revised:  
Printed: 8/27/10

Date: 6/25/10  
Drwn: RMS  
Dwgfile: L:\2010\100282\CAD\B100282A

SCALE AS SHOWN  
Chart: Of:  
14 20



Coastal Protection & Restoration  
Authority of Louisiana, CPRA

**GIWW to Clovelly Hydrologic Restoration (BA-02)**  
**LAKE RIM**

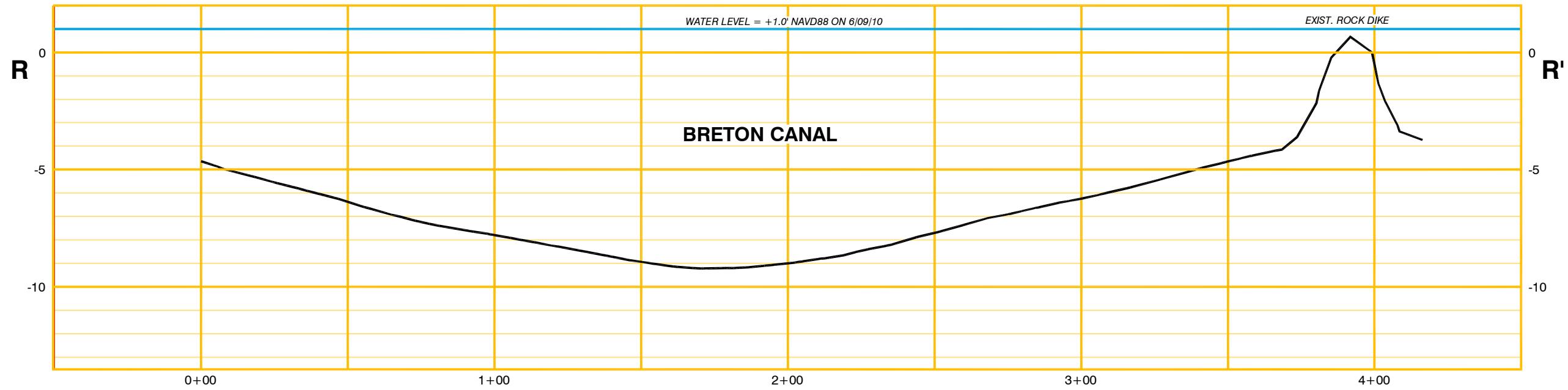
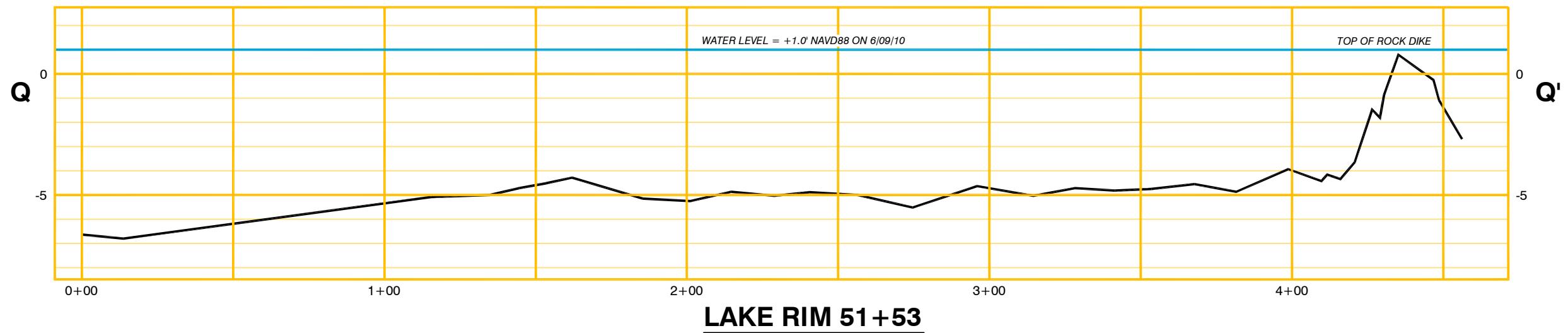
SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN



**BRETON CANAL 56+55**

**BRETON CANAL CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**Coastal Protection & Restoration  
Authority of Louisiana, OCPR**

**GIWW to Clovelly Hydrologic Restoration (BA-02)  
LAKE RIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

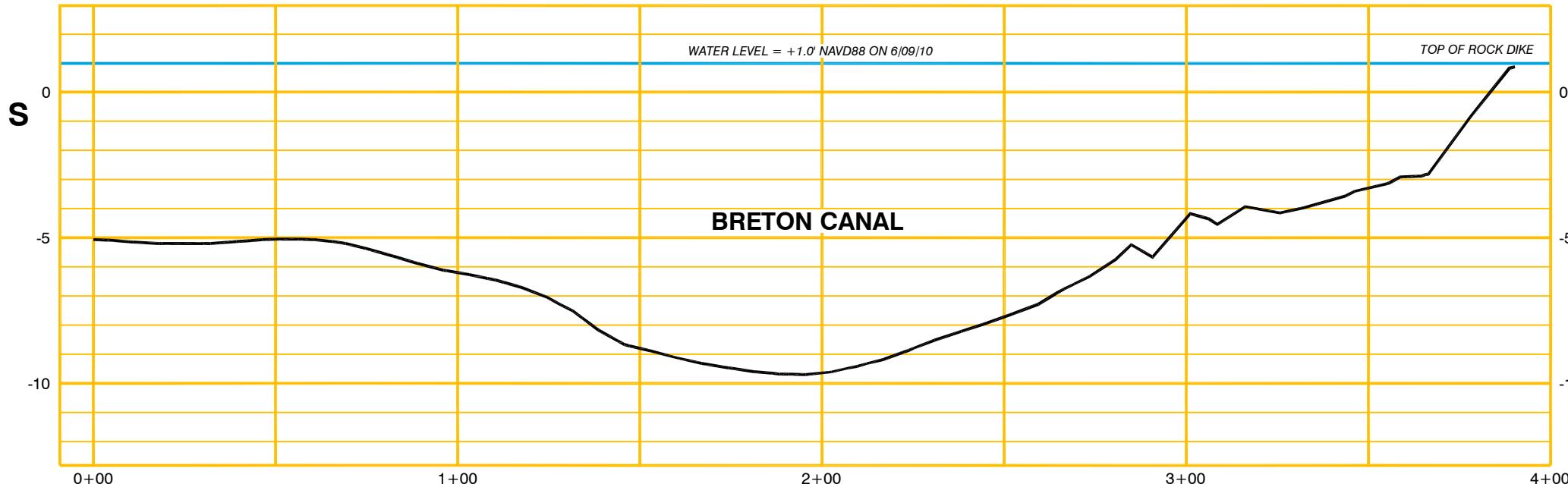
**JOHN CHANCE**  
LAND SURVEYS, INC.



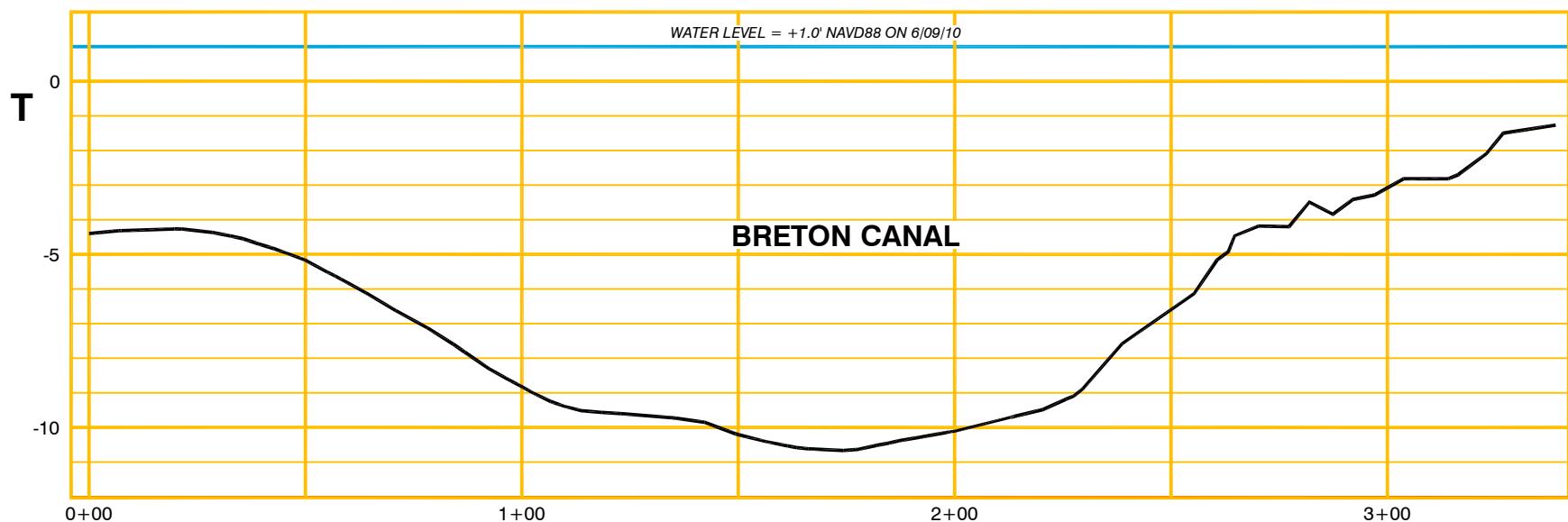
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ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Proj. Mgr.: RMJ	Date: 6/25/10	Drwn: RMS	Chart: Of:
Revised: 8/24/10			
Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282A		



**BRETON CANAL 61+53**



**BRETON CANAL 66+53**

**BRETON CANAL CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**Coastal Protection & Restoration  
Authority of Louisiana, CPRA**

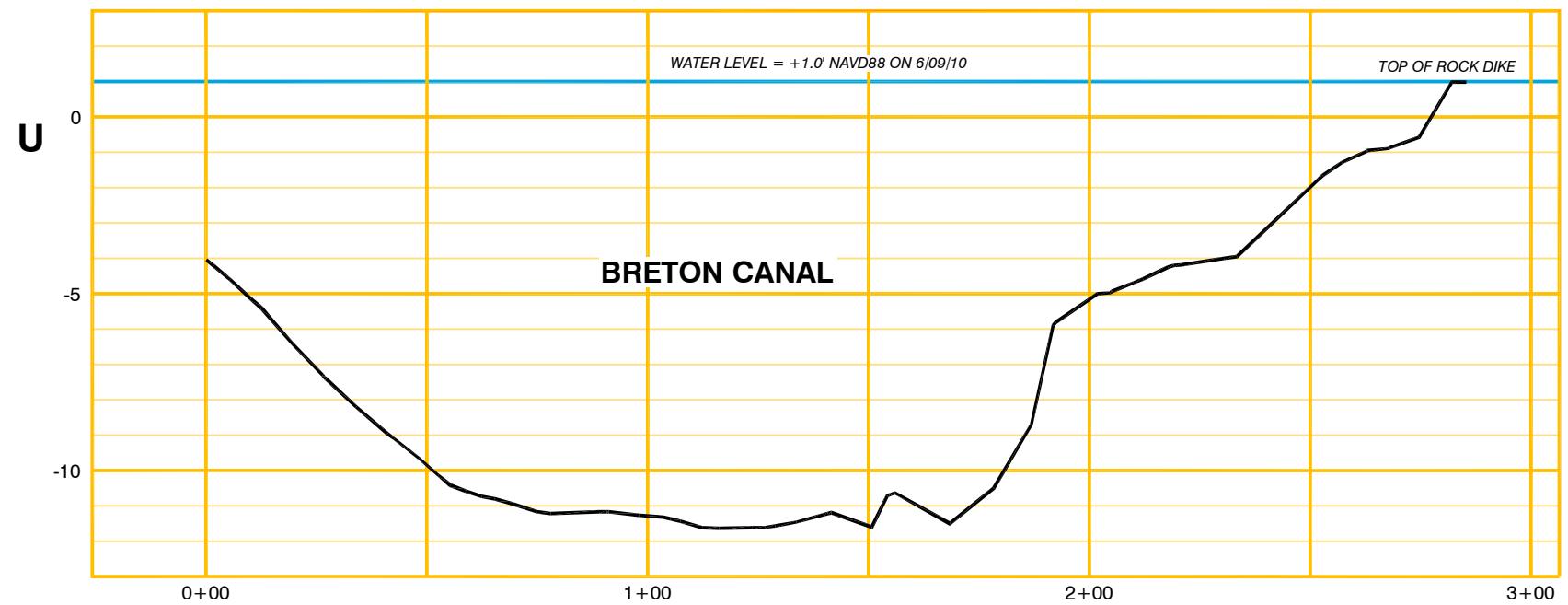
**GIWW to Clovelly Hydrologic Restoration (BA-02)  
LAKE RIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

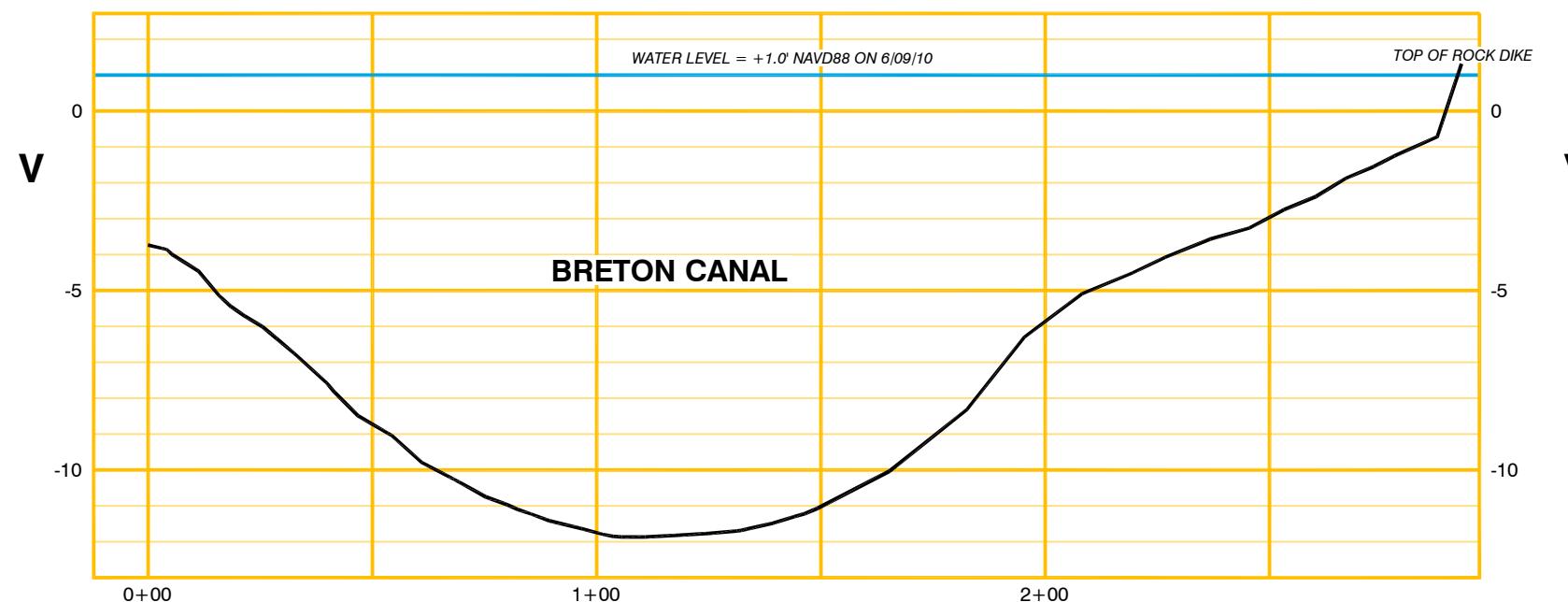
**JOHN CHANCE**  
LAND SURVEYS, INC.



GEOGRAPHIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN
Proj. Mgr.: RMJ Revised: 8/24/10 Printed: 8/27/10	Job No.: 10-0282 Date: 6/25/10 Drwn: RMS Chart: Of: Dwgfile: L:\2010\100282\CAD\B100282A



**BRETON CANAL 71+53**



**BRETON CANAL 76+53**

**BRETON CANAL CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



Coastal Protection & Restoration  
**Authority of Louisiana, OCPR**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**  
**LAKE RIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

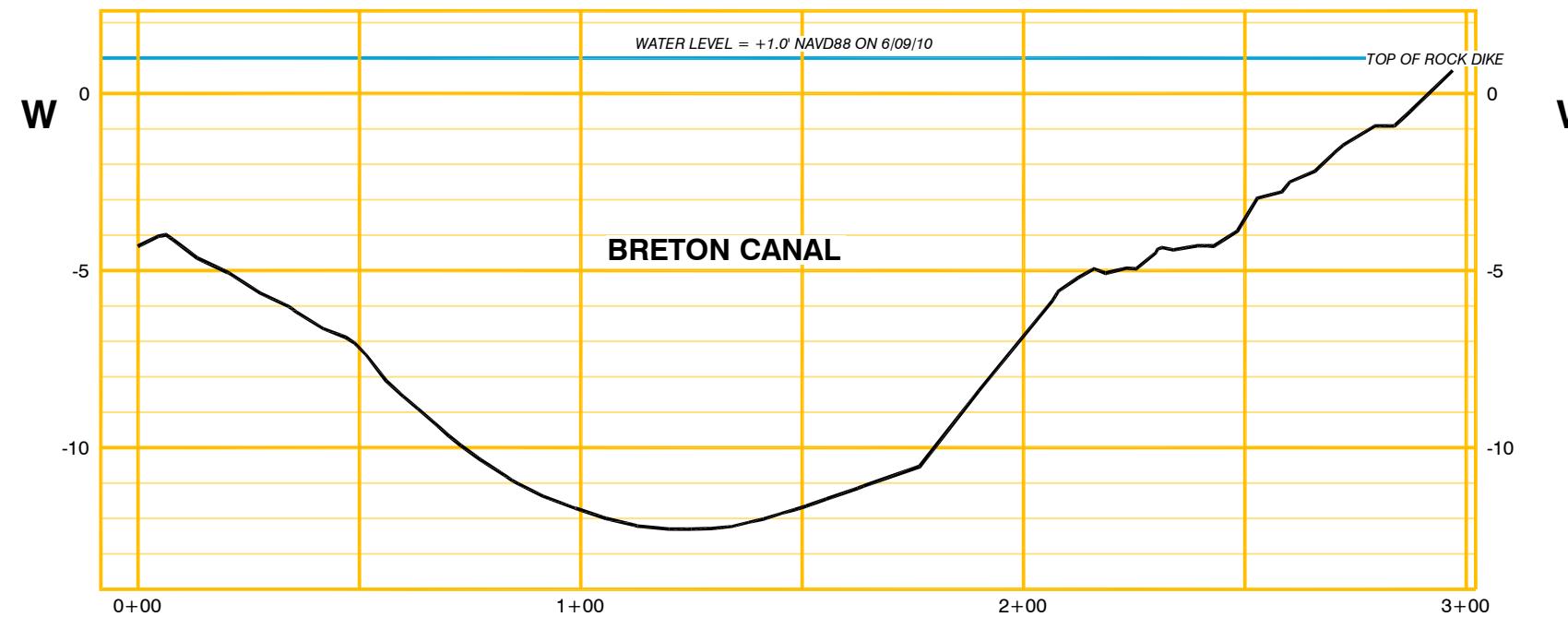


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GRID UNITS: US SURVEY FEET

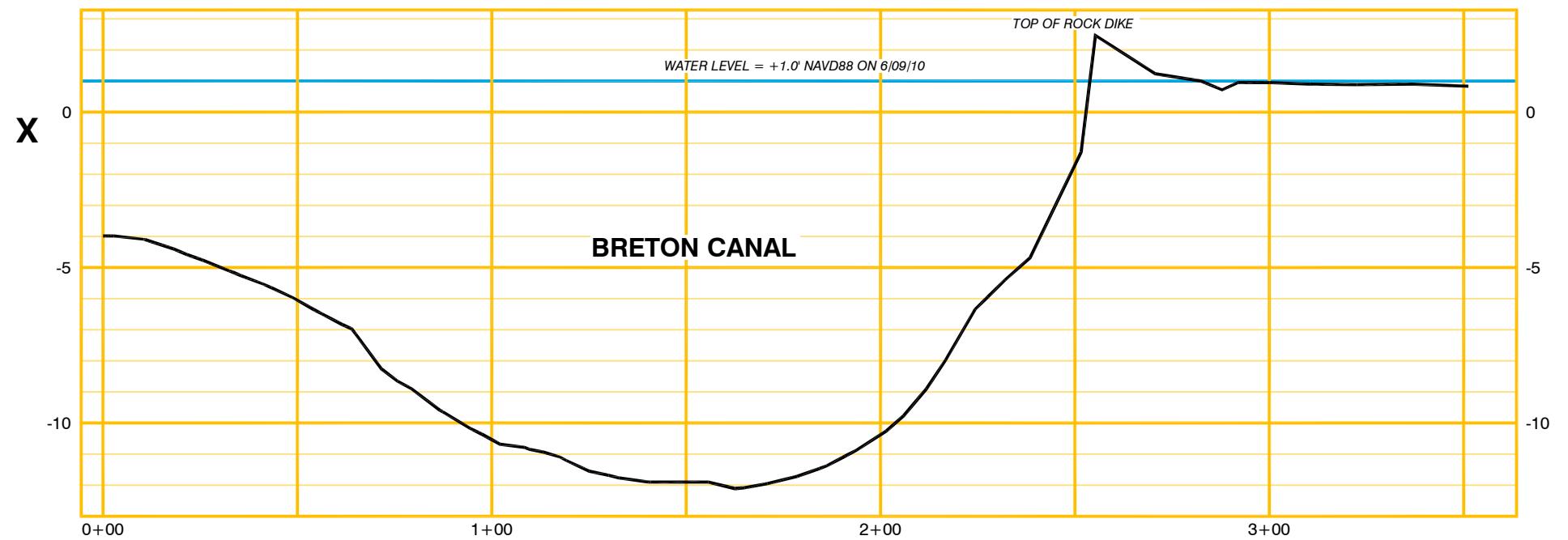
SCALE AS SHOWN

Proj. Mgr.: RMJ	Date: 6/25/10	Drwn: RMS	Chart: Of:
Revised: 8/24/10			
Printed: 8/27/10			

Dwgfile: L:\2010\100282\CAD\B100282A



**BRETON 81+53**



**BRETON CANAL 86+53**

**BRETON CANAL CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'

Proj. Mgr.: RMJ Revised: 8/24/10 Printed: 8/27/10	SCALE AS SHOWN
Job No.: 10-0282 Date: 6/25/10 Dwgfile: L:\2010\100282\CAD\B100282A	Drwn: RMS Chart: Of:



Coastal Protection & Restoration  
**Authority of Louisiana, CPRA**

**GIWW to Clovelly Hydrologic Restoration (BA-02)**  
**LAKE RIM**

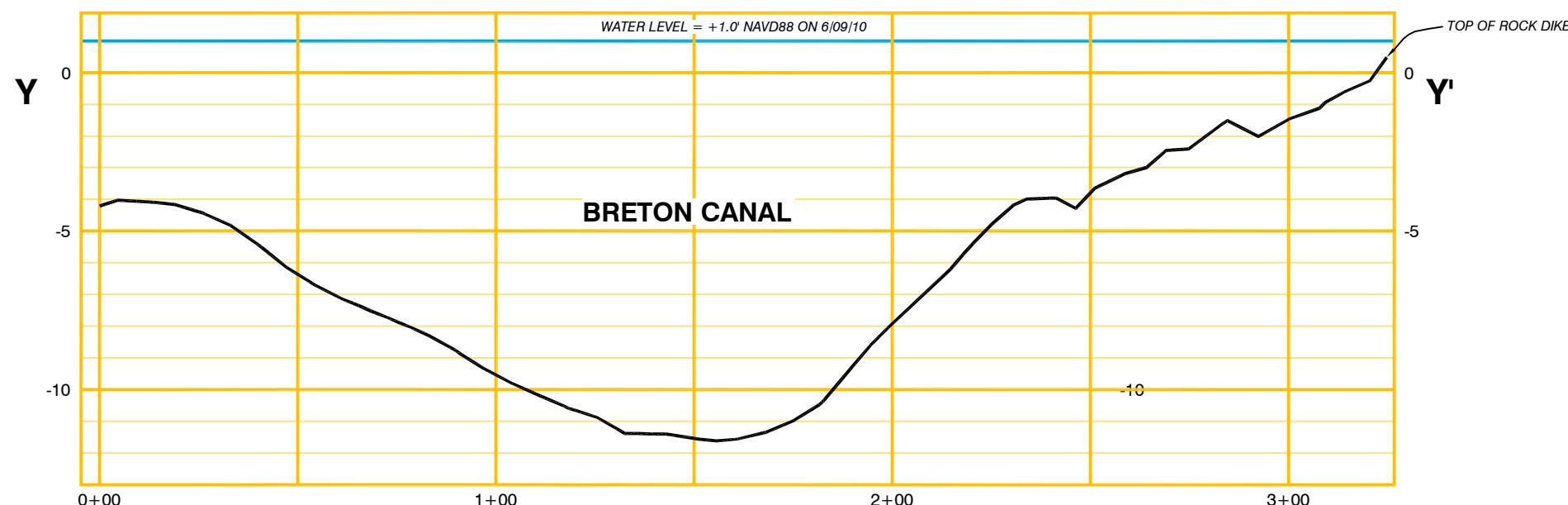
SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

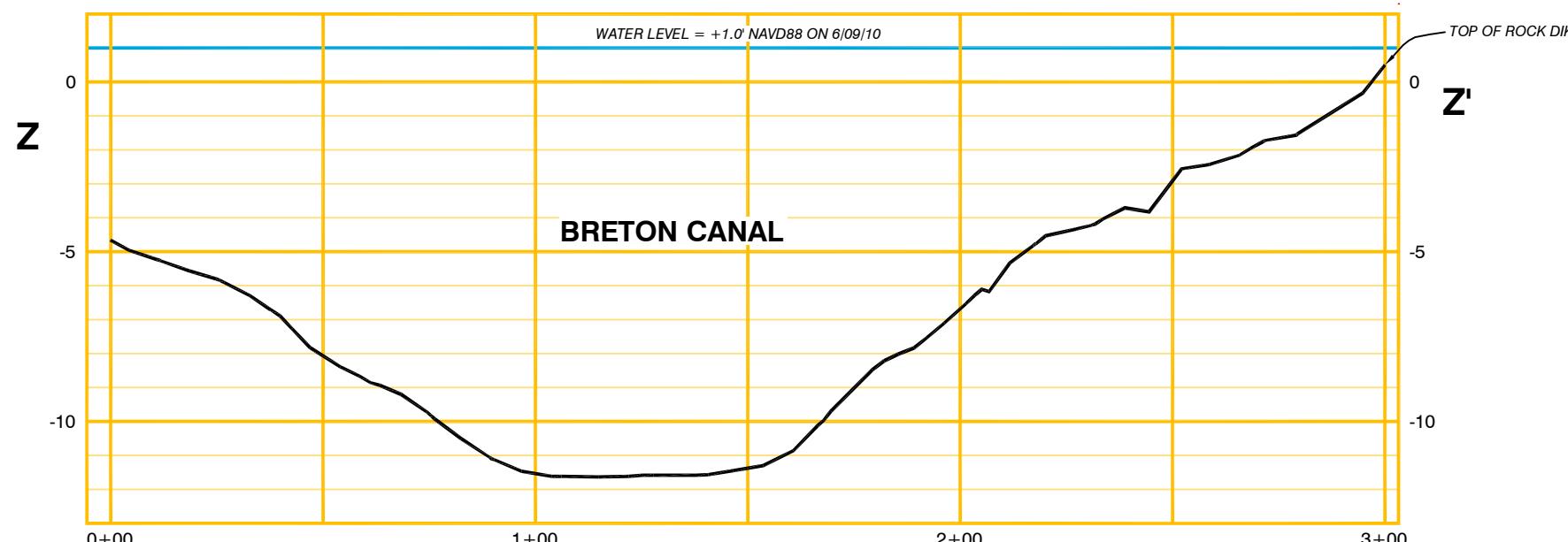


GEOGRAPHIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN



**BRETON CANAL 91+53**



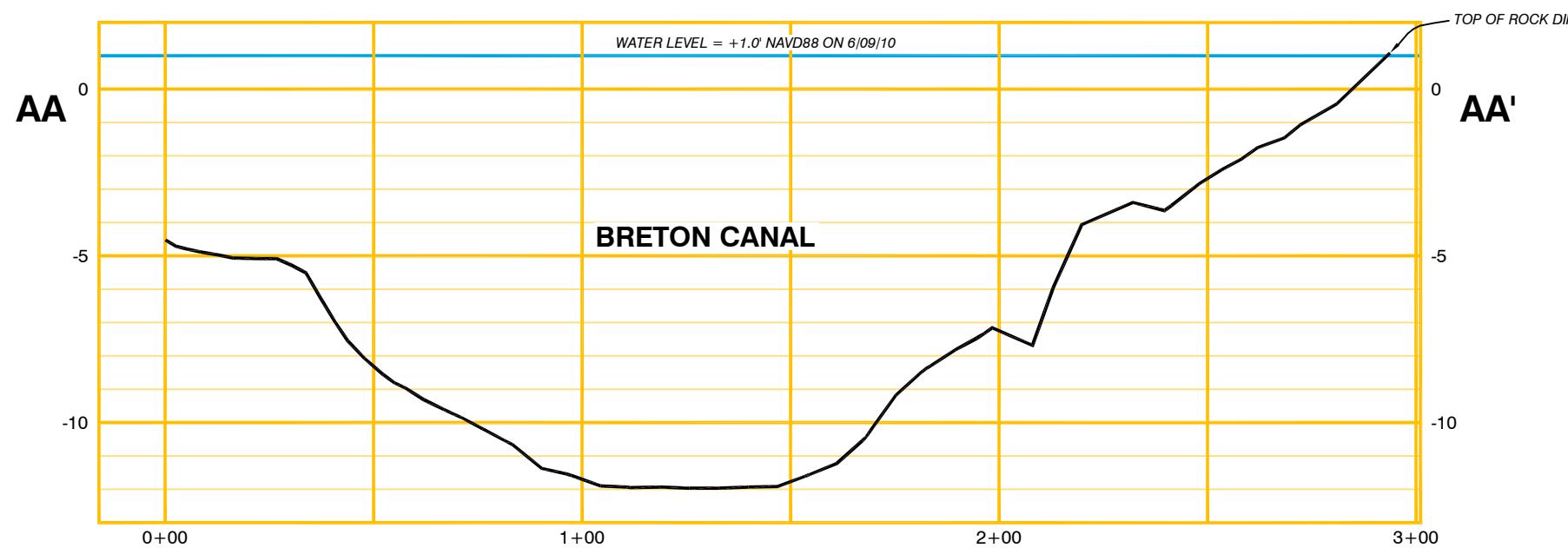
**BRETON CANAL 96+53**

**BRETON CANAL CROSS SECTIONS**

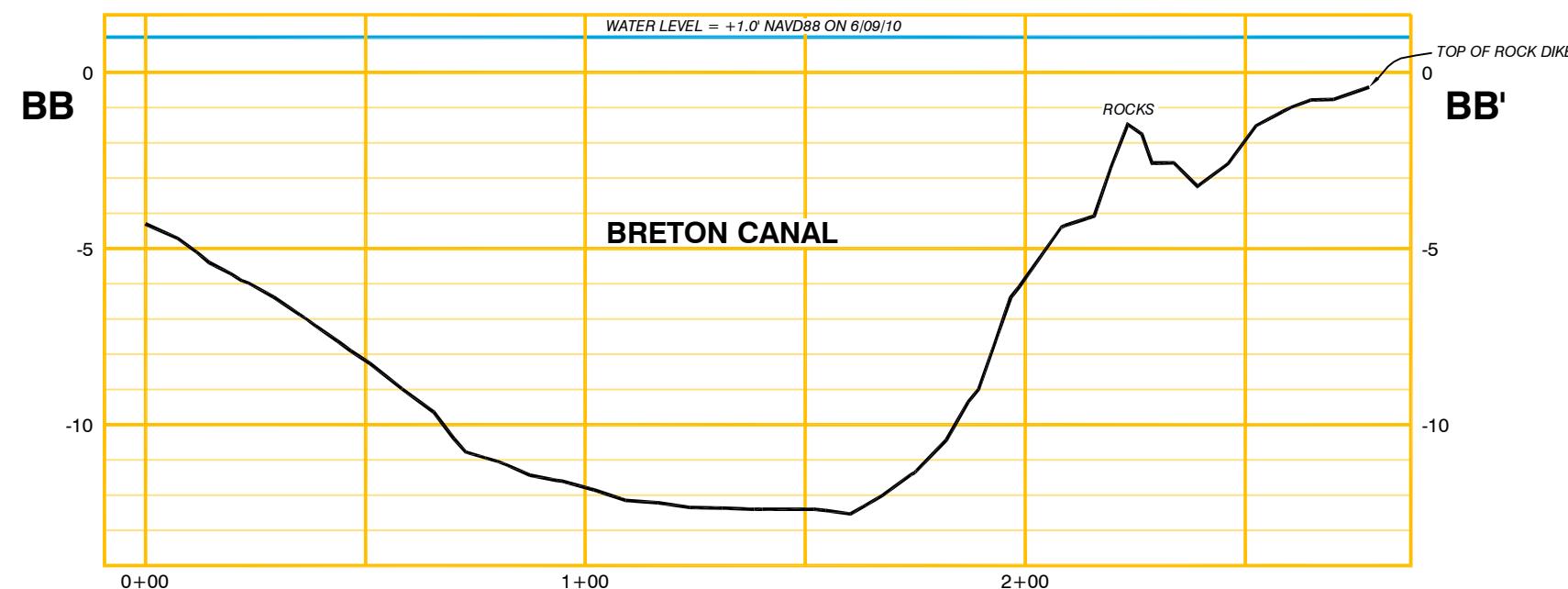
VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'

Proj. Mgr.: RMJ	SCALE AS SHOWN
Revised:	
Printed: 8/27/10	
Dwgfile: L:\2010\100282\CAD\B100282A	

CPRA	Coastal Protection & Restoration Authority of Louisiana, OCPR
<b>GIWW to Clovelly Hydrologic Restoration (BA-02)</b>	
<b>LAKE RIM</b>	
SECTIONS 016, 021, 022, 027 & 028, T18S-R22E	
LAFOURCHE PARISH, LOUISIANA	
JOHN CHANCE	LAND SURVEYS, INC.
GEODETIC DATUM: NAD83	
ZONE: LOUISIANA SOUTH	
GRID UNITS: US SURVEY FEET	
Job No.: 10-0282	Date: 6/25/10
Drwn: RMS	Chart: Of:
Dwgfile: L:\2010\100282\CAD\B100282A	



**BRETON CANAL 101+53**



**BRETON CANAL 106+53**

**BRETON CANAL CROSS SECTIONS**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'

Proj. Mgr.: RMJ  
Revised:  
Printed: 8/27/10

Date: 6/25/10  
Drwn: RMS  
Dwgfile: L:\2010\100282\CAD\B100282A

SCALE AS SHOWN  
Chart: Of:  
20 20



**Coastal Protection & Restoration  
Authority of Louisiana, OCPR**

**GIWW to Clovelly Hydrologic Restoration (BA-02)  
LAKE RIM**

SECTIONS 016, 021, 022, 027 & 028, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.

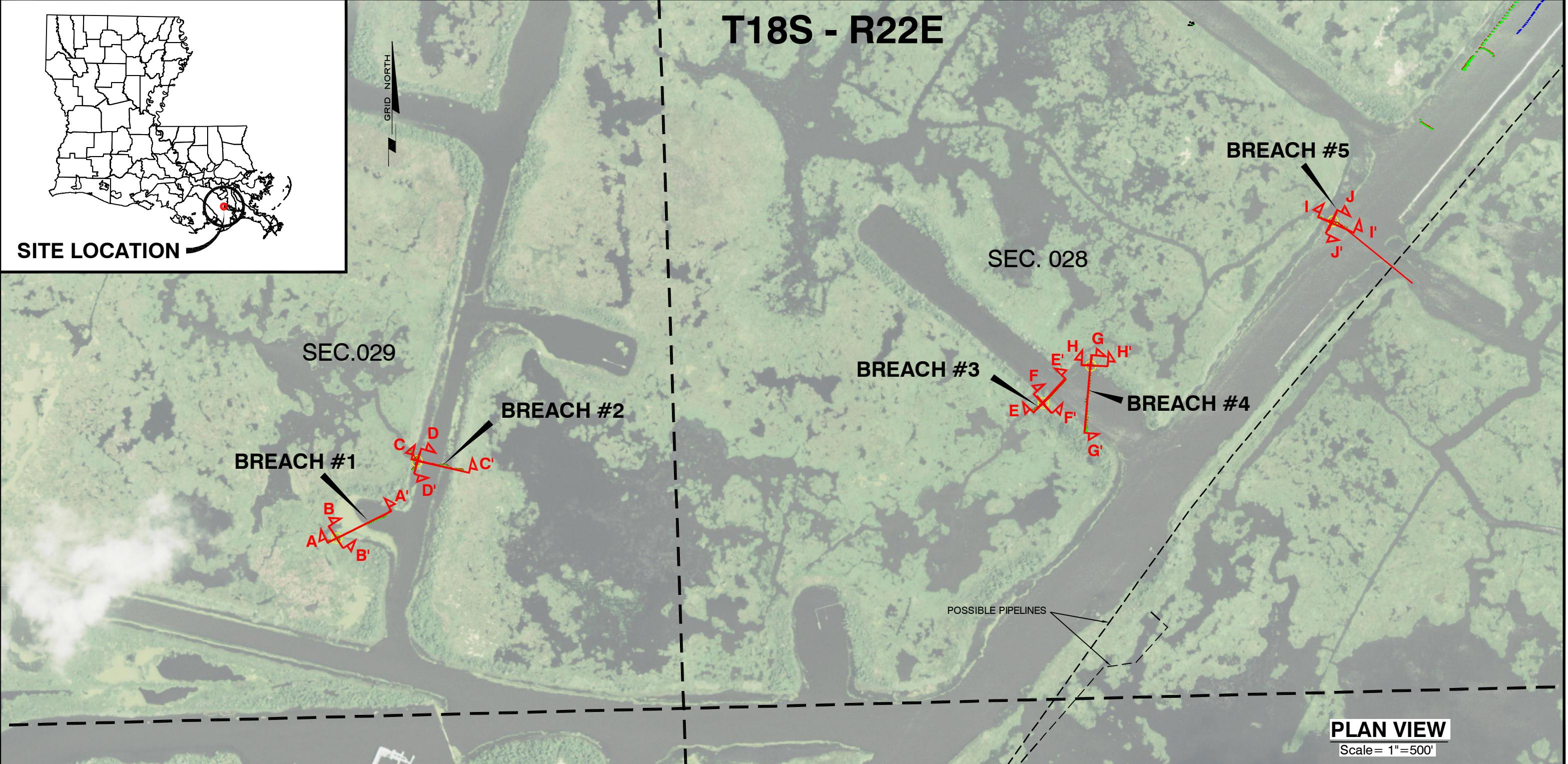


GEODETIC DATUM: NAD83  
ZONE: LOUISIANA SOUTH  
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN



# T18S - R22E



**Coastal Protection & Restoration  
Authority of Louisiana, OCPR**

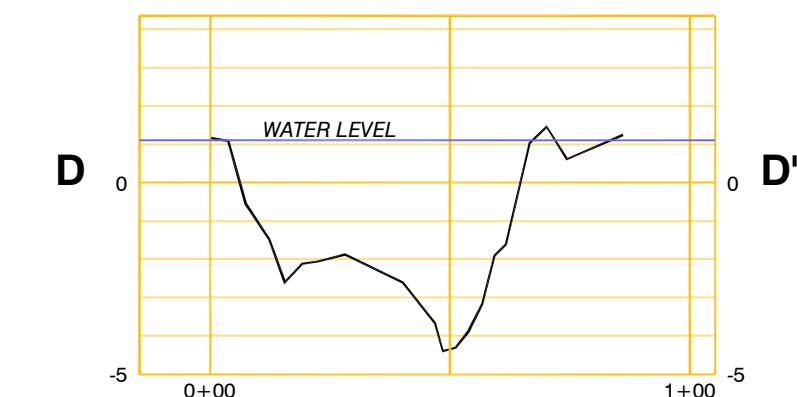
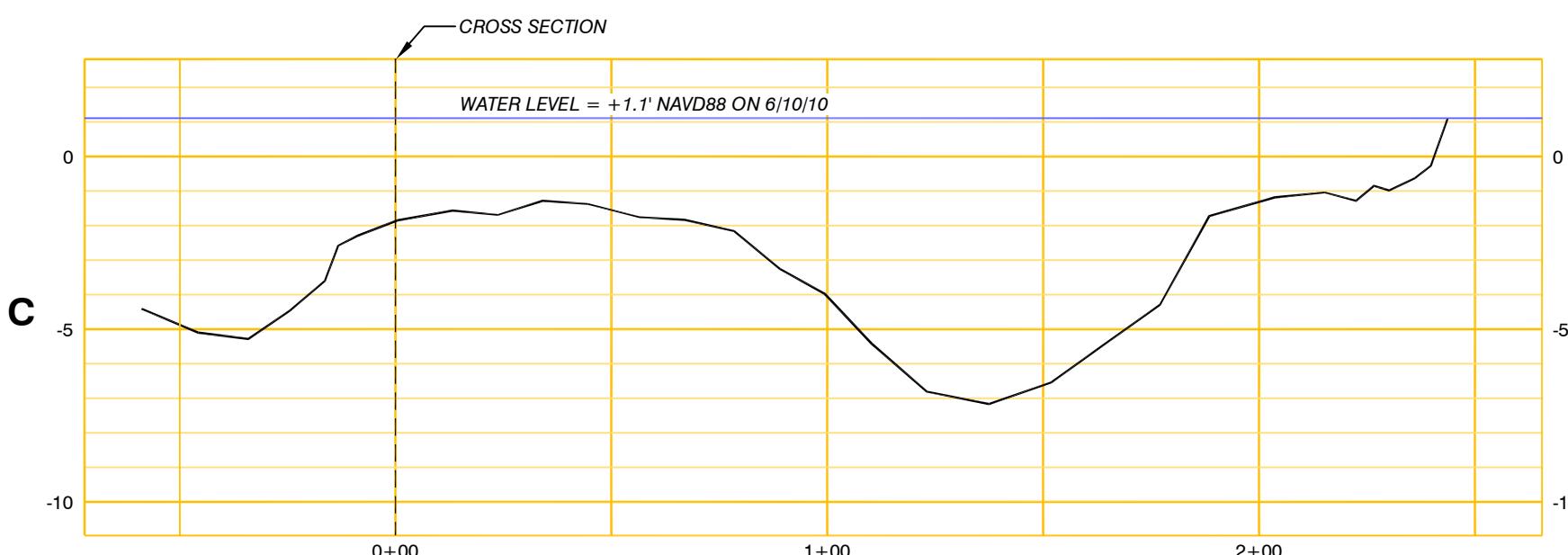
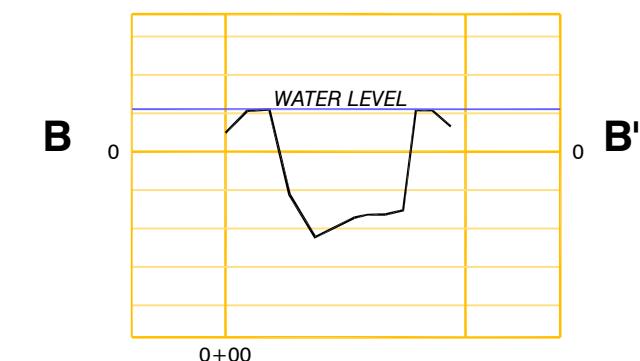
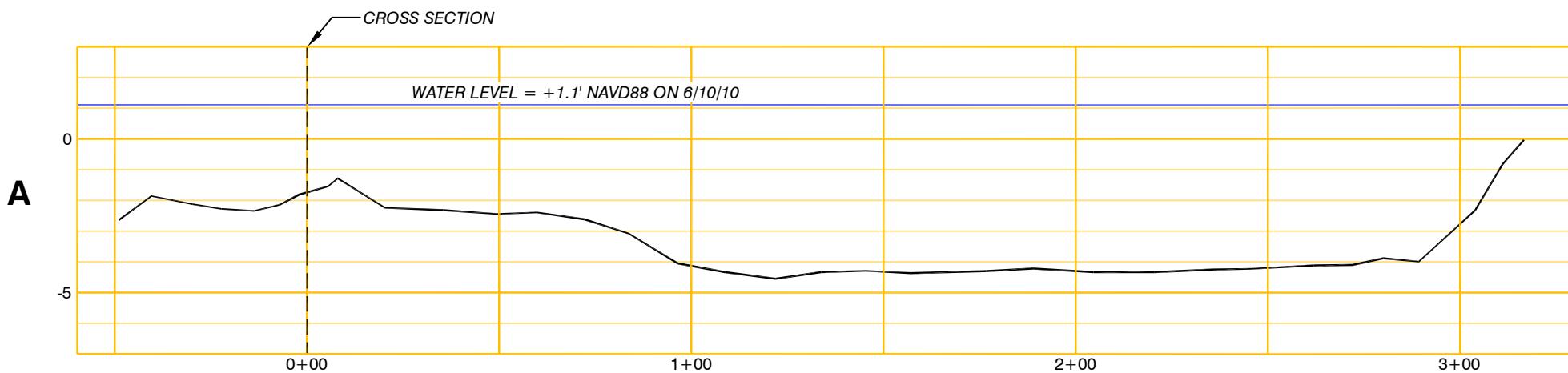
## BREACHES

SECTIONS 028 & 029, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

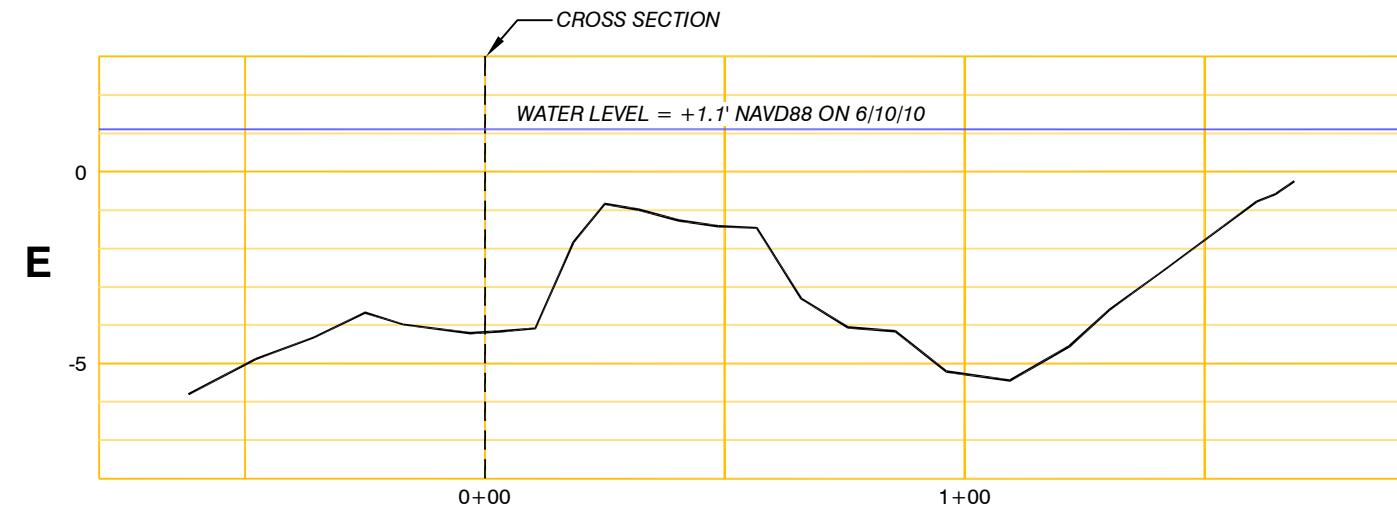
**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83	SCALE IN FEET
ZONE: LOUISIANA SOUTH	0
GRID UNITS: US SURVEY FEET	500'
Proj. Mgr.: RMJ	
Revised:	
Job No.: 10-0282	Date: 6/22/10
Printed: 8/27/10	Dwgfile: L:\2010\100282\CAD\B100282
Chart: AXG	Of: 1 4

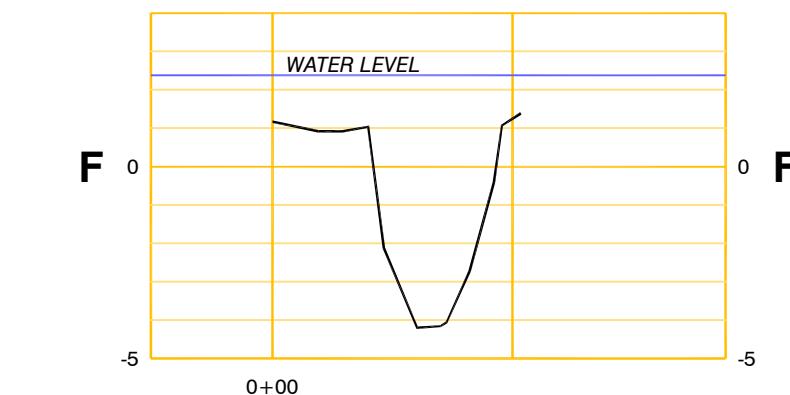


		Coastal Protection & Restoration Authority of Louisiana, CPRA	
<b>BREACHES</b>			
SECTIONS 028 & 029, T18S-R22E			
LAFOURCHE PARISH, LOUISIANA			
<b>JOHN CHANCE</b> LAND SURVEYS, INC.			
GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE AS SHOWN	
Proj. Mgr.: Revised:	RMJ	Job No.: 10-0282 Printed: 8/27/10	Date: 6/22/10 Dwgfile: L:\2010\100282\CAD\B100282
Chart: Of:	AXG	2 4	



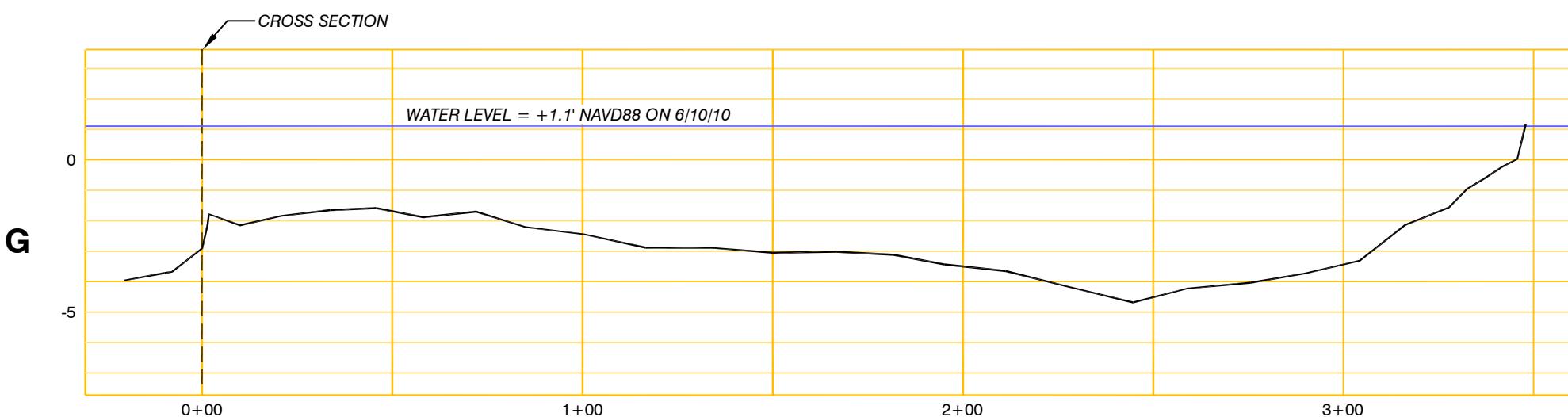
### BREACH #3 PROFILE

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



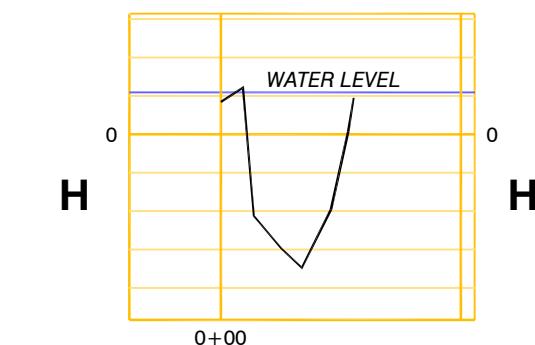
### BREACH #3 CROSS SECTION

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



### BREACH #4 PROFILE

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



### BREACH #4 CROSS SECTION

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



Coastal Protection & Restoration  
Authority of Louisiana, OCPR

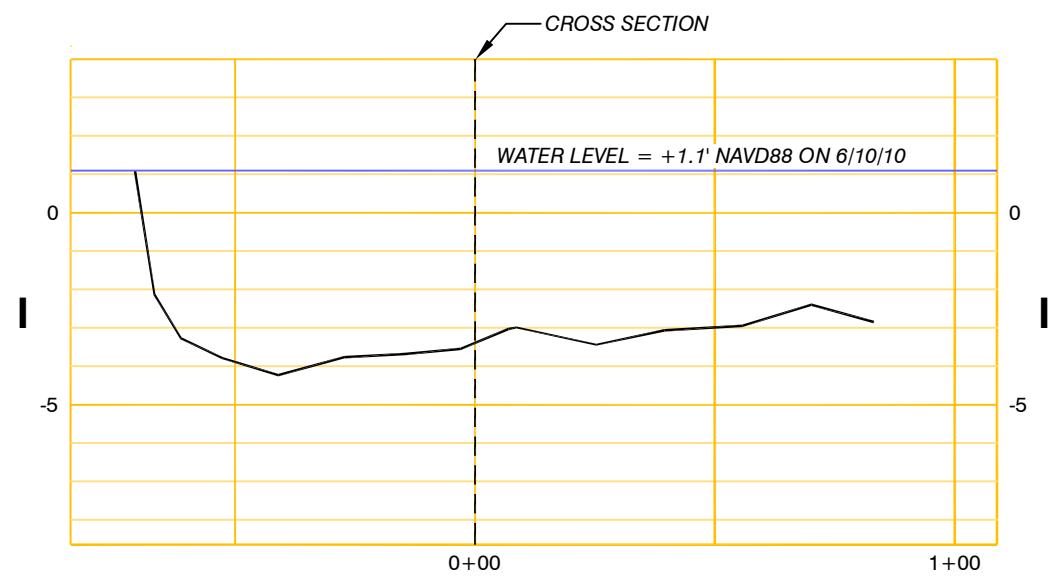
#### BREACHES

SECTIONS 028 & 029, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

JOHN CHANCE  
LAND SURVEYS, INC.

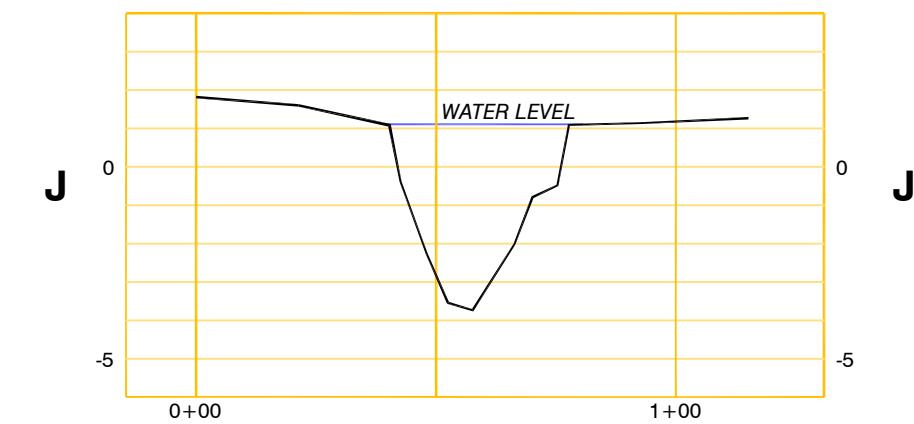


GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN
Proj. Mgr.: RMJ Revised: Job No.: 10-0282 Printed: 8/27/10 Dwgfile: L:\2010\100282\CAD\B100282	Date: 6/22/10 Drwn: AXG Chart: Of: 3 4



**BREACH #5 PROFILE**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**BREACH #5 CROSS SECTION**

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 40'



**Coastal Protection & Restoration  
Authority of Louisiana, OCPR**

**BREACHES**

SECTIONS 028 & 029, T18S-R22E  
LAFOURCHE PARISH, LOUISIANA

**JOHN CHANCE**  
LAND SURVEYS, INC.



GEODETIC DATUM: NAD83 ZONE: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET	SCALE AS SHOWN
Proj. Mgr.: RMJ Revised: Job No.: 10-0282 Printed: 8/27/10	Date: 6/22/10 Drwn: AXG Dwgfile: L:\2010\100282\CAD\B100282