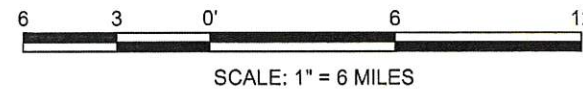
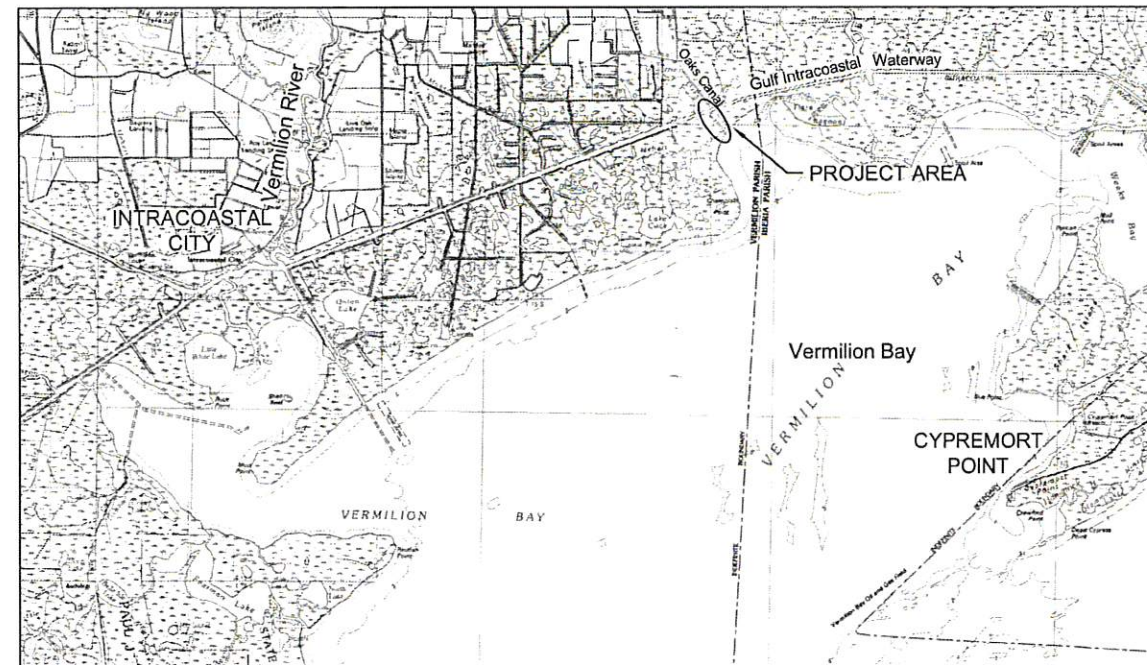
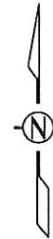


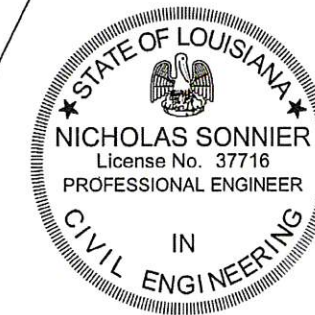
OAKS/AVERY HYDROLOGIC RESTORATION  
ROCK MAINTENANCE  
PROJECT NO. TV-13A  
VERMILION PARISH

1	TITLE SHEET
2	GENERAL NOTES & SUMMARY OF ESTIMATED QUANTITIES
3	PLAN LAYOUT - OVERALL AREA
4	PLAN & PROFILE - VERMILION BAY
5	PLAN & PROFILE - GIWW
6	TYPICAL SECTIONS & DETAILS
7-9	CROSS SECTIONS - VERMILION BAY
10-13	CROSS SECTIONS GIWW



Natural Resources Conservation Service

FEDERAL  
PROJECT  
SPONSOR



Nicholas Sonnier 7/2/18  
NICHOLAS SONNIER, P.E. REG. NO. 37716

Wendy A Vincent 7/2/18  
APPROVED, SELLERS & ASSOCIATES, INC.

ARTZOUX 3/18/18  
ENGINEER ADMINISTRATOR, OPERATIONS DIVISION

Dan S. Portoff 7-16-18  
REGIONAL MANAGER, OPERATIONS DIVISION

01/11/2011  
 Elion L. Broussard  
 CONSTRUCTION MANAGER, OPERATIONS DIVISION

MAJOR CLASSIFICATION: HEAVY CONSTRUCTION

DATE: JULY 2018		<p align="center"><b>TITLE SHEET</b></p>	<p align="center"><b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b> 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</p>	<p align="center"><b>SELLERS &amp; ASSOCIATES, INC.</b> 148-B EASY STREET LAFAYETTE, LA 70506</p>			
OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE							
STATE PROJECT NUMBER: TV-13A	DESIGNED BY: N. SONNIER						
DRAWN BY: J. FABRE	APPROVED BY: T. VINCENT						
					REV.	DATE	DESCRIPTION
SHEET 1 OF 13		BY					



GENERAL NOTES

1.

ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) (GEOID 12A), U. S. SURVEY FEET (FEET). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD83, LOUISIANA STATE PLANE, SOUTH ZONE 1702, U. S. FEET). ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS PERFORMED IN JUNE 2015 BY SELLERS & ASSOCIATES, INC. IMAGERY REPRODUCED FROM 2010 AERIAL PHOTOGRAPHY.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM A NAVIGABLE WATER BODY TO THE PROJECT AREA. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT PLAN AREA. FLOTATION CHANNELS OR DREDGING WILL NOT BE ALLOWED FOR THIS PROJECT. THE CPRA FIELD ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE EQUIPMENT LOCATION DURING CONSTRUCTION.
3.

ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING THE TRANSIT TO AND FROM THE PROJECT SITE.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE CLEARANCES FROM THE PIPELINES SET FORTH IN THE PLAN DRAWINGS OR IN THE BID DOCUMENTS. SEE SP-9 "LAND OWNER AND PIPELINE REQUIREMENTS". NO EXCAVATION IS ALLOWED WITHIN ANY AREA RESTRICTED BY PIPELINE COMPANIES AND SET FORTH ON THE PLANS. THE FOLLOWING IS A LIST OF UTILITIES AND PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. PIPELINE LOCATIONS SHOWN ARE APPROXIMATIONS. THE OWNER IS NOT LIABLE FOR EXACT LOCATIONS. THE CONTRACTOR MUST CALL LOUISIANA ONE CALL AT (800) 272-3020 AT LEAST 5 WORKING DAYS PRIOR TO MOBILIZATION.

ENLINK LIG, LLC

CONTACT: BILL WORLEY

PHONE: (214) 953-9500

E-MAIL: bill.worley@enlink.com

PLAINS PIPELINE, L.P.

CONTACT: J. WALDECK

PHONE: (713) 646-4337

E-MAIL: jwaldeck@paalp.com

PANTHER OPERATING COMPANY, LLC.

CONTACT: JOHN SANCHEZ

PHONE: (832) 552-3600

E-MAIL: john.sanchez@panthercompanies.com

5.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING ADJACENT LANDOWNERS AT LEAST FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION.

JAMES DELCAMBRE

PHONE: (337) 685-4230

E-MAIL: jimmie@delcambre.net

EMILE THIBODEAUX

PHONE: (337) 652-1495

E-MAIL: erthibodeaux@bellsouth.net

6.

PLANS AND BID DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED IN ONE IS AS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
7.

MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) WERE CALCULATED USING GAGE READINGS FROM USACE GAUGE, SCHOONER BAYOU CONTROL STRUCTURE - EAST (76600) AND THE NOAA GAGE, FRESHWATER BAYOU CANAL LOCKS (8766072) DURING THE TIDAL EPOCH OF 1983-2001. SINCE THIS GAGE IS REFERENCED TO THE MEAN LOW GULF DATUM, A CORRELATION IN THE VERTICAL DATUMS WAS APPLIED TO REPORT GAGE READINGS FOR THE PROJECT VERTICAL REFERENCED DATUM OF NAVD 88, GEOID 12A, US FEET.
8.

THE ROCK ALIGNMENT MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
9.

ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
10.

ESTIMATED ROCK QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN JUNE 2015. THE IN-PLACE UNIT WEIGHT OF 1.5 TONS/CU. YDS. FOR THE ROCK WAS ASSUMED. ACTUAL QUANTITIES WILL BE BASED ON BARGE DISPLACEMENT MEASUREMENTS. SEE SECTION TS-702.12 "MEASUREMENT AND PAYMENT" FOR ADDITIONAL REQUIREMENTS. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

11.

THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF ANY PIPELINES AND ALONG THE ROCK DIKE. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO MOBILIZATION. MAGNETOMETER LINES SHALL BE RUN ALONG THE ROCK DIKE ALIGNMENT AND PIPELINES. ADDITIONAL MAGNETOMETER LINES SHALL BE RUN PERPENDICULAR TO THE ROCK DIKE ALIGNMENT. THESE LINES SHALL EXTEND 25' BEYOND THE ROCK DIKE AND SHALL BE SPACED A MAXIMUM OF 500' APART. THE DRAWING SHALL BE STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA. SEE SECTION TS-201.2.5 "MAGNETOMETER SURVEY" FOR ADDITIONAL REQUIREMENTS.
12.

ROCK DIKES SHALL BE CONSTRUCTED ACCORDING TO THE ALIGNMENT COORDINATES AND CURVE DATA LISTED ON THE PLANS UNLESS CHANGES ARE APPROVED IN THE FIELD BY THE CPRA FIELD ENGINEER.

BASE BID

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
101	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
201	CONSTRUCTION SURVEYS	LUMP SUM	1
610	WOVEN GEOTEXTILE FABRIC	SQ. YARDS	680
702	650 LB. CLASS ROCK	TONS	1134

ADDITIVE ALTERNATE NO. 1

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
101	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
201	CONSTRUCTION SURVEYS	LUMP SUM	1
702	650 LB. CLASS ROCK	TONS	500





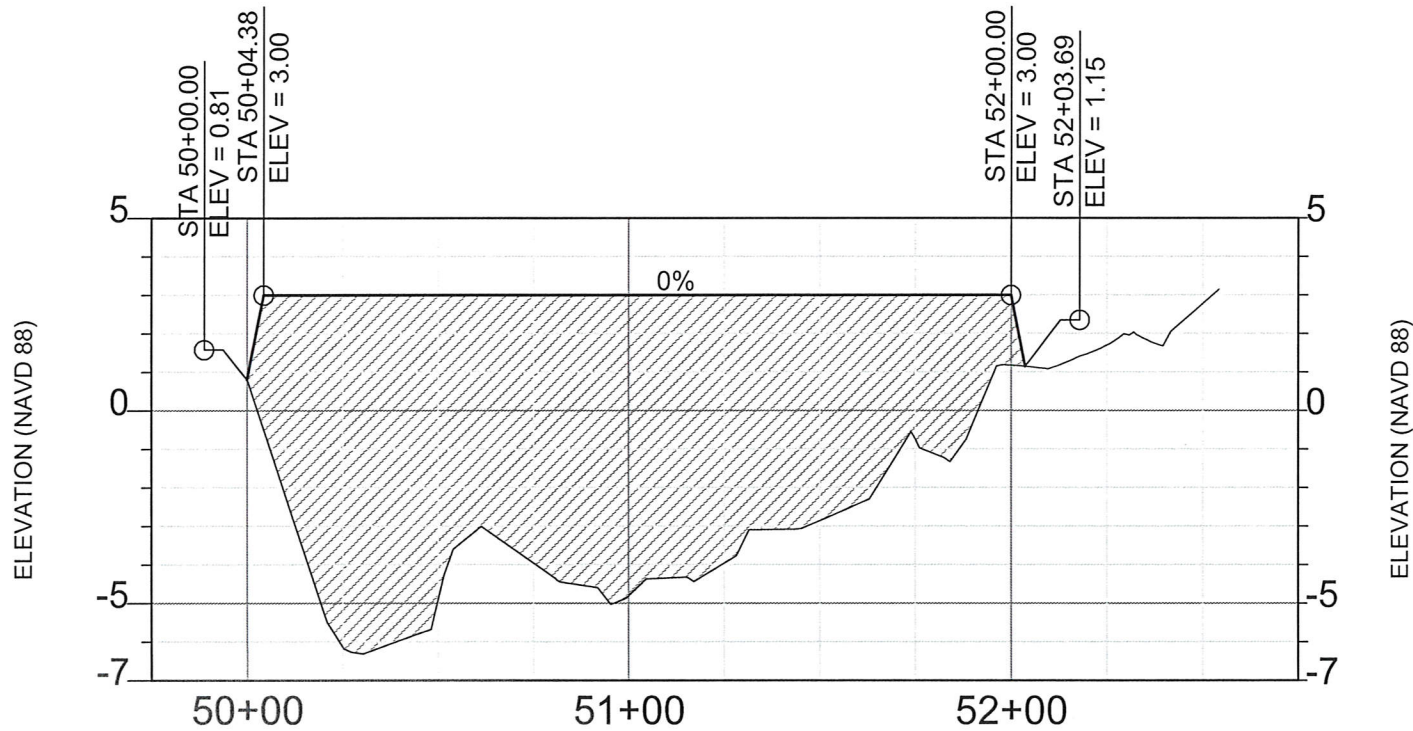
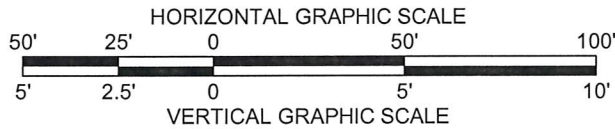


OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE		PLAN LAYOUT- OVERALL AREA	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	SELLERS & ASSOCIATES, INC. 148-B EASY STREET LAFAYETTE, LA 70506				
STATE PROJECT NUMBER: TV-13A	DESIGNED BY: N. SONNIER							
DRAWN BY: J. FABRE	APPROVED BY: T. VINCENT							
		REV.			DATE	DESCRIPTION	BY	




DATE: JULY 2018

SHEET 3 OF 13





**LEGEND**

-  EXISTING ROCK DIKE
-  REQ'D ROCK DIKE
-  EXISTING BANK LINE



SELLERS &  
ASSOCIATES, INC.  
148-B EASY STREET  
LAFAYETTE, LA 70506

COASTAL PROTECTION  
AND RESTORATION  
AUTHORITY  
150 TERRACE AVENUE  
BATON ROUGE, LOUISIANA 70802

PLAN & PROFILE  
VERMILION BAY

OAKS/VERY HYDROLOGIC  
RESTORATION  
ROCK MAINTENANCE

DATE: JULY 2018

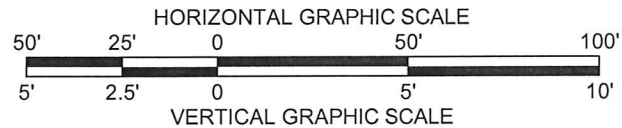
SHEET 4 OF 13

REV.	DATE	DESCRIPTION	BY



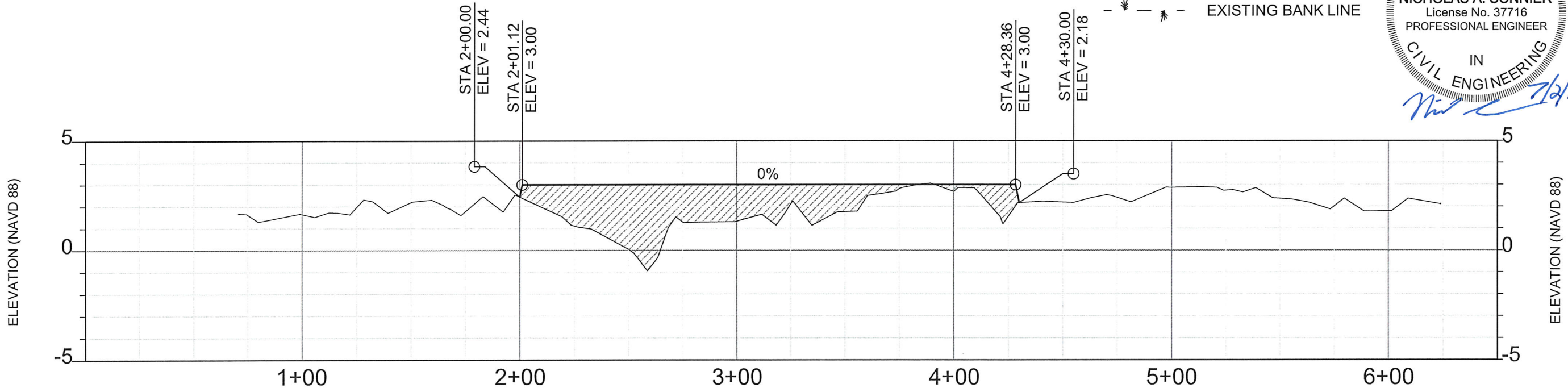


CENTERLINE COORDINATES		
POINT	NORTHING	EASTING
6	485,247.52	3,072,220.07
7	485,319.81	3,072,407.75
8	485,337.38	3,072,453.36
9	485,387.08	3,072,594.89
10	485,399.63	3,072,612.22
11	485,401.88	3,072,620.52
12	485,413.10	3,072,661.82
13	485,465.20	3,072,803.80



LEGEND

- EXISTING ROCK DIKE
- REQ'D ROCK DIKE CAPPING
- EXISTING BANK LINE

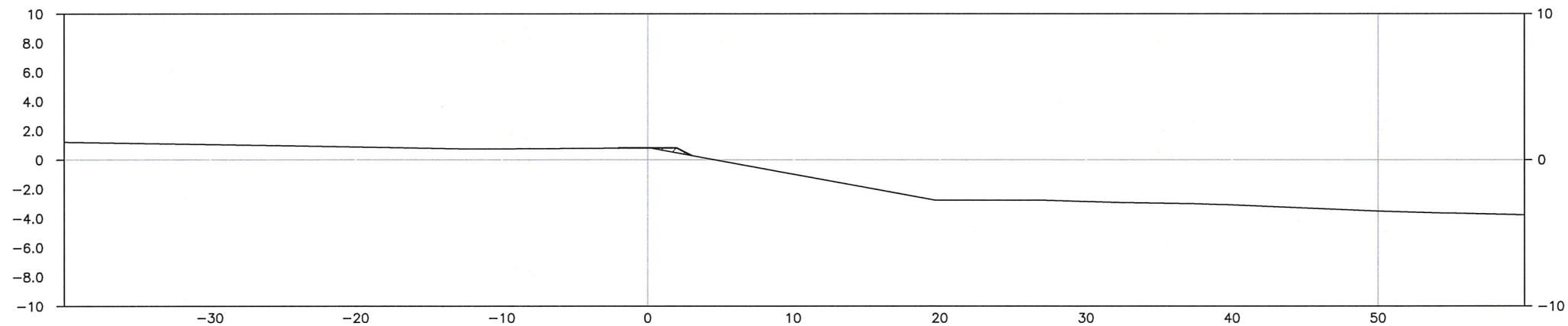


SELLERS & ASSOCIATES, INC. 148-B EASY STREET LAFAYETTE, LA 70506		REV	DATE	DESCRIPTION	BY
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE	PLAN & PROFILE GIWW	DESIGNED BY: N. SONNIER	APPROVED BY: T. VINCENT		
STATE PROJECT NUMBER: TV-13A	DRAWN BY: J. FABRE				
DATE: JULY 2018					
SHEET 5 OF 13					

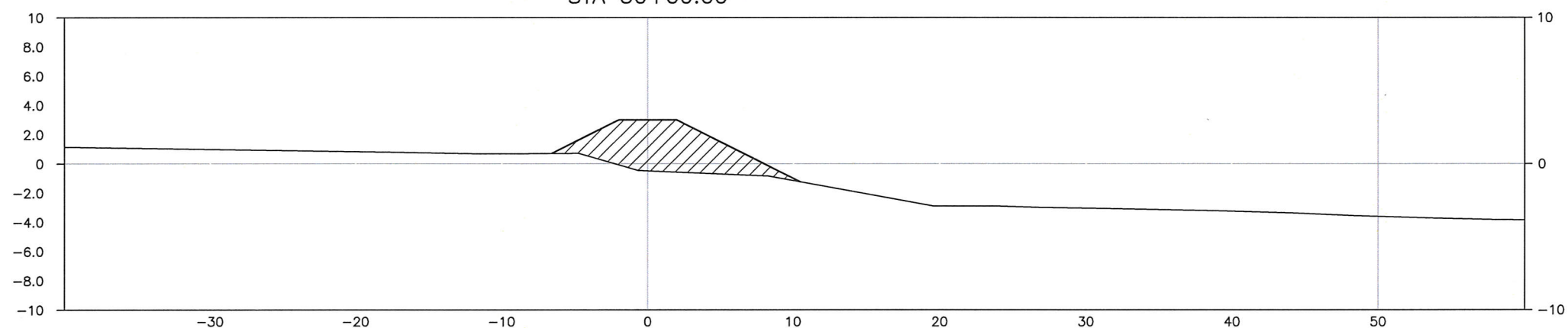




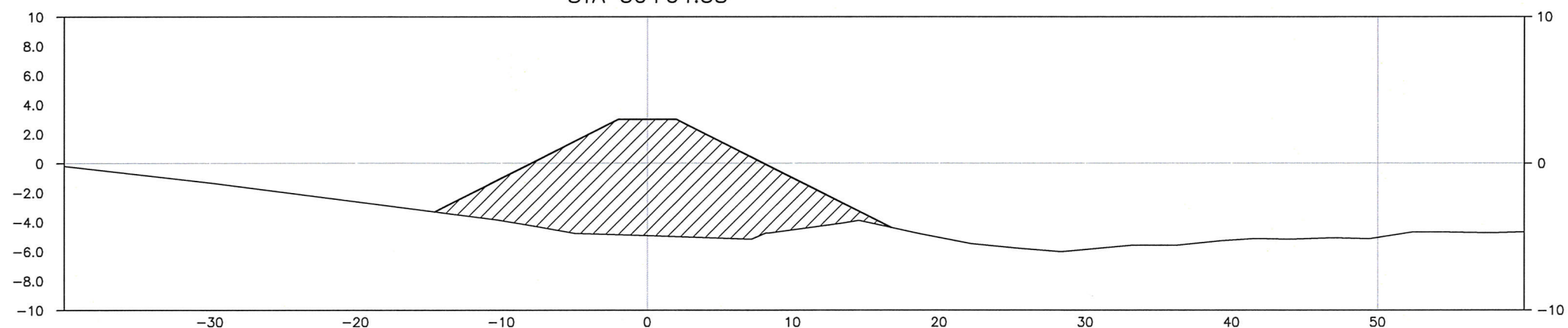




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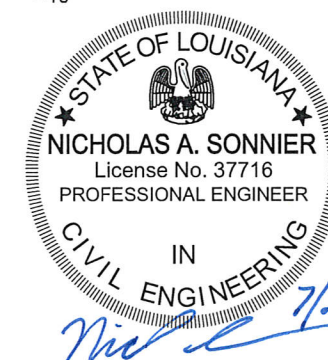


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**LEGEND**

 REQ'D ROCK DIKE



**SELLERS &  
ASSOCIATES, INC.**  
148-B EASY STREET  
LAFAYETTE, LA 70506

**COASTAL PROTECTION  
AND RESTORATION  
AUTHORITY**  
150 TERRACE AVENUE  
BATON ROUGE, LOUISIANA 70802

CROSS SECTIONS  
VERMILION BAY

DESIGNED BY: N. SONNIER  
APPROVED BY: T. VINCENT

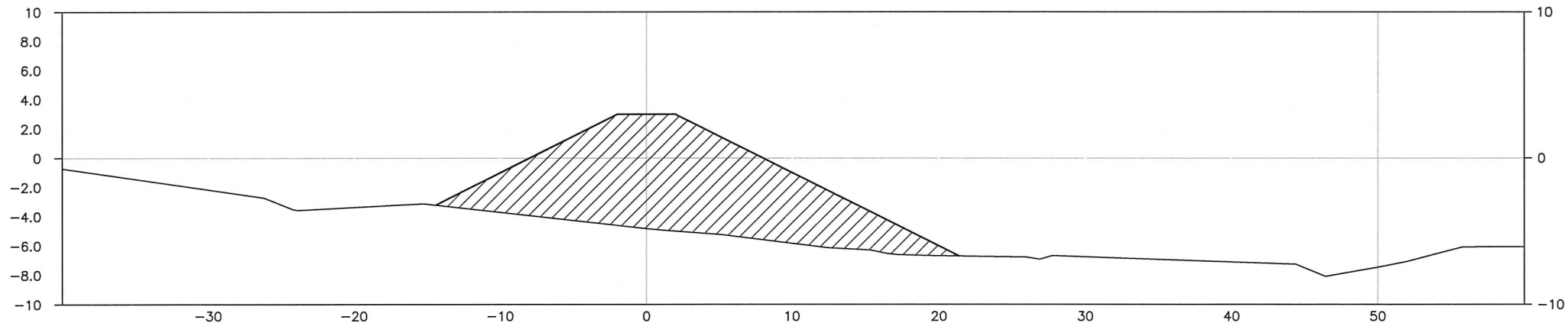
OAKS/EVERY HYDROLOGIC  
RESTORATION  
ROCK MAINTENANCE

STATE PROJECT NUMBER: TV-13A  
DRAWN BY: J. FABRE

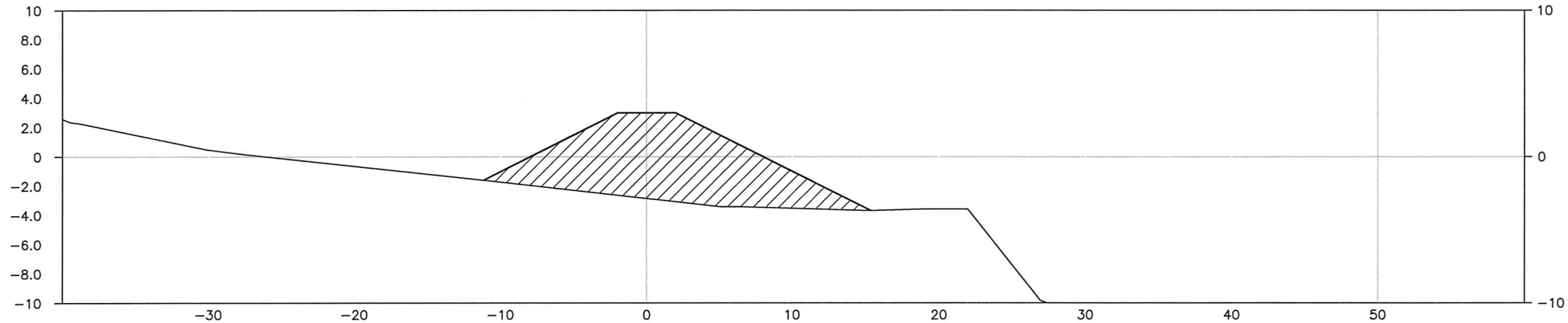
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SHEET 7 OF 13

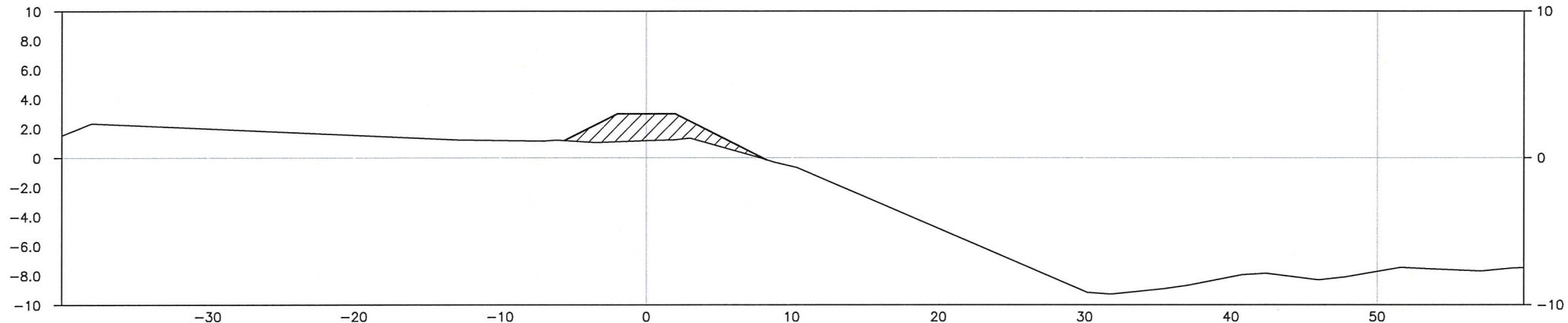




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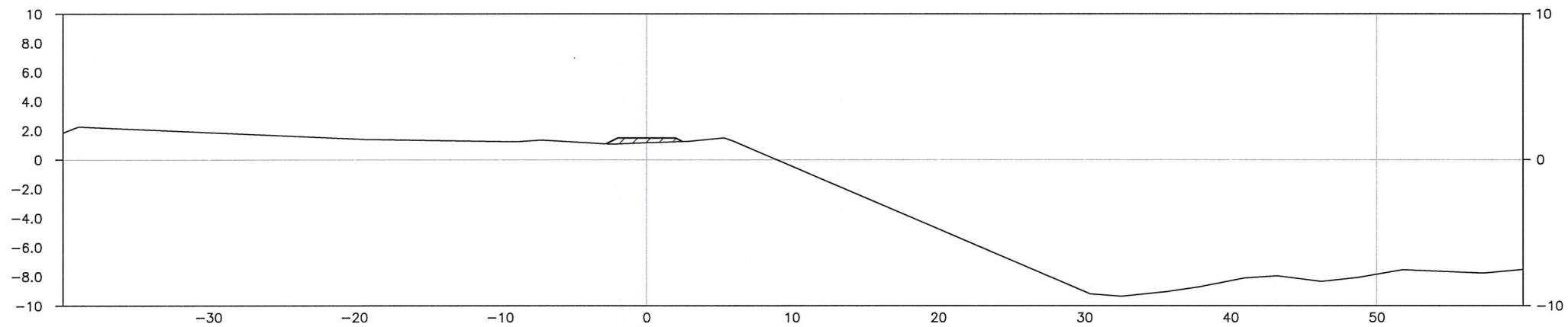


**LEGEND**  
 REQ'D ROCK DIKE

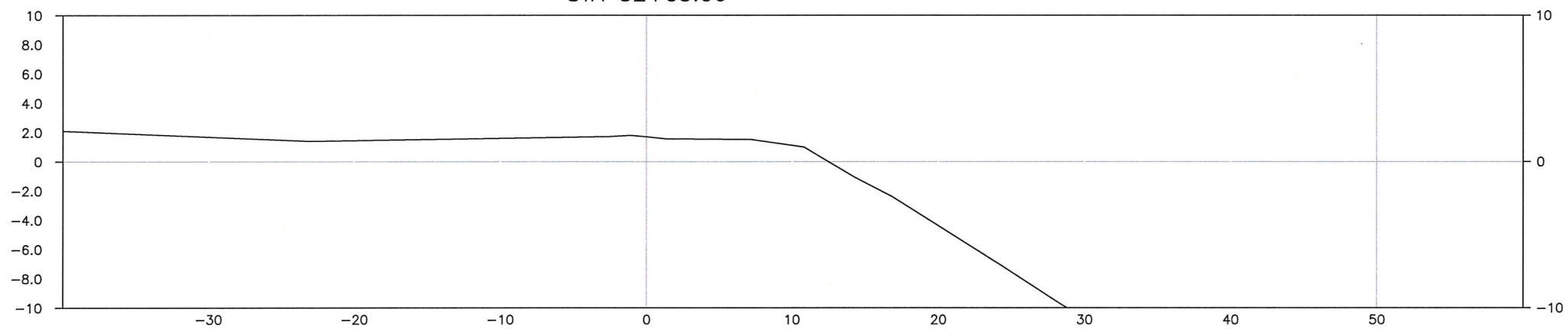


OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE	CROSS SECTIONS VERMILION BAY		SELLERS & ASSOCIATES, INC. 148-B EASY STREET LAFAYETTE, LA 70506	
	STATE PROJECT NUMBER: TV-13A	DESIGNED BY: N. SONNIER	DATE	DESCRIPTION
	DRAWN BY: J. FABRE	APPROVED BY: T. VINCENT	REV.	BY
DATE: JULY 2018				
SHEET 8 OF 13				






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STA 52+39.22



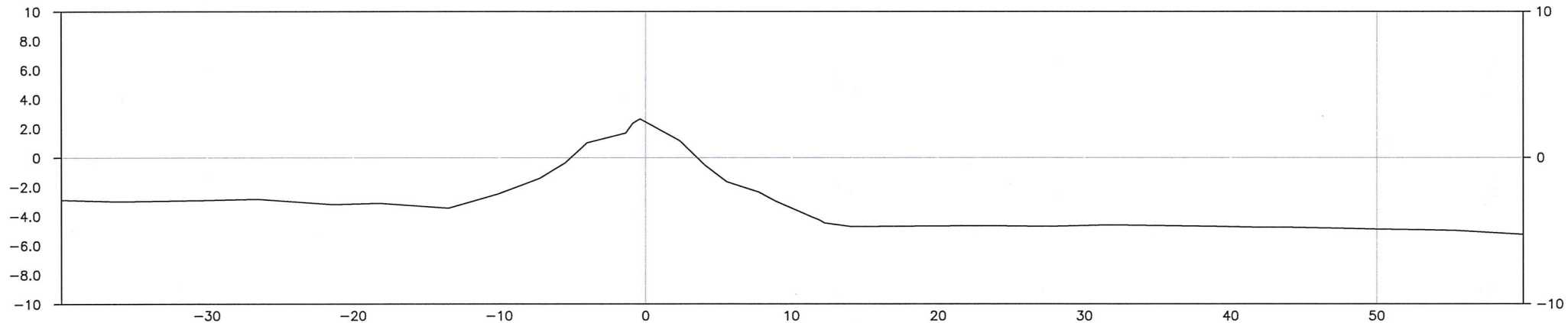
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 REQ'D ROCK DIKE

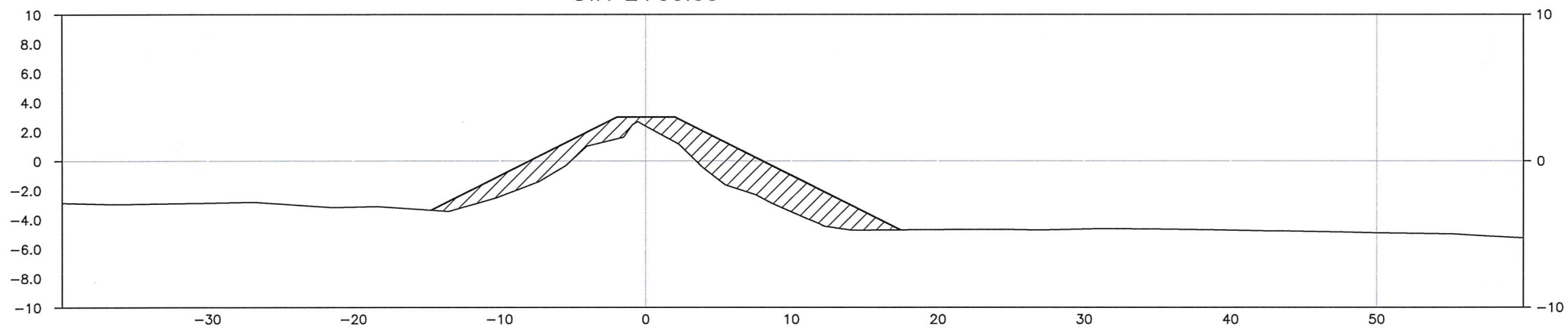


OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE		CROSS SECTIONS VERMILION BAY	SELLERS & ASSOCIATES, INC. 148-B EASY STREET LAFAYETTE, LA 70506
STATE PROJECT NUMBER: TV-13A	DESIGNED BY: N. SONNIER		
DRAWN BY: J. FABRE	APPROVED BY: T. VINCENT	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	
DATE: JULY 2018			
SHEET 9 OF 13			

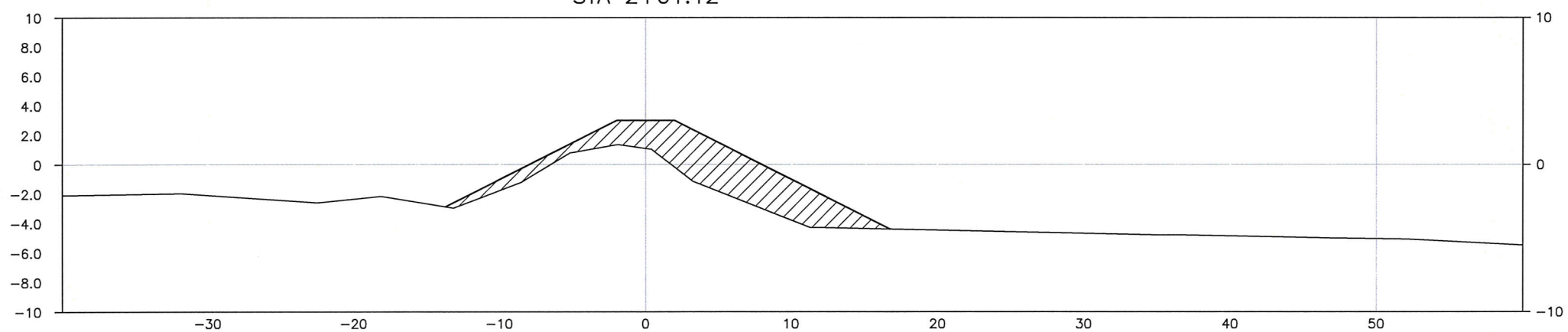




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**LEGEND**  
 REQ'D ROCK DIKE

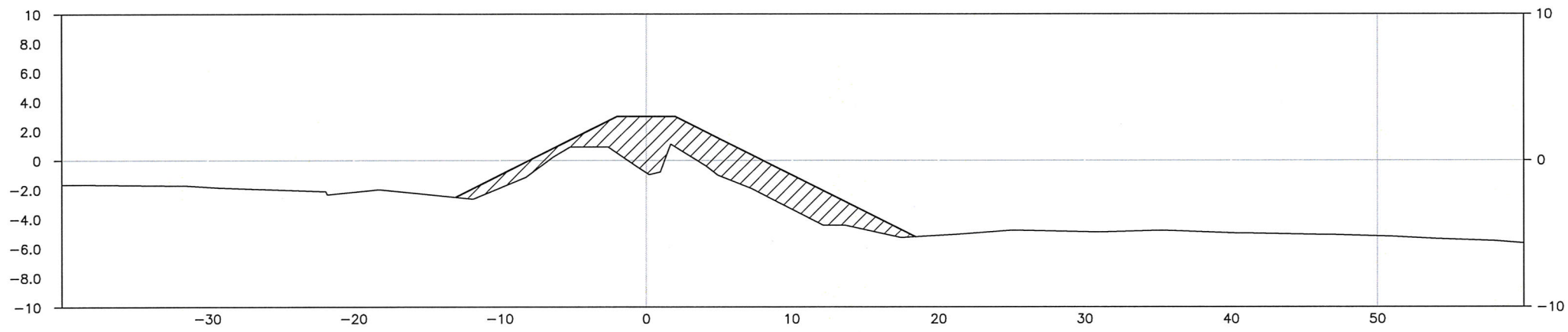
STATE OF LOUISIANA  
NICHOLAS A. SONNIER  
License No. 37716  
PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING  
*Niel R 7/2/18*

SELLERS &  
ASSOCIATES, INC.  
148-B EASY STREET  
LAFAYETTE, LA 70506

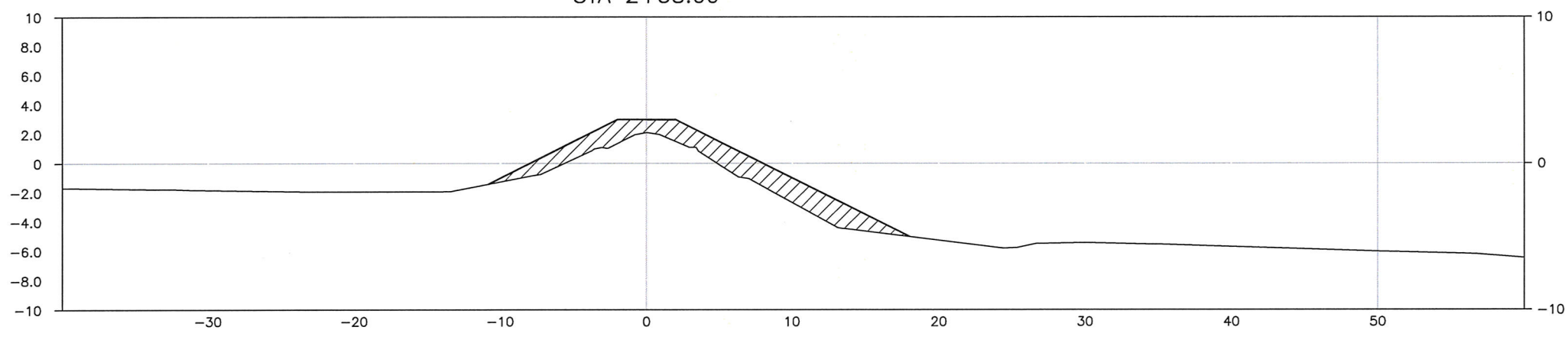
COASTAL PROTECTION  
AND RESTORATION  
AUTHORITY  
150 TERRACE AVENUE  
BATON ROUGE, LOUISIANA 70802

CROSS SECTIONS GIWW	DESIGNED BY: N. SONNIER
	APPROVED BY: T. VINCENT
OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE	STATE PROJECT NUMBER: TV-13A
	DRAWN BY: J. FABRE

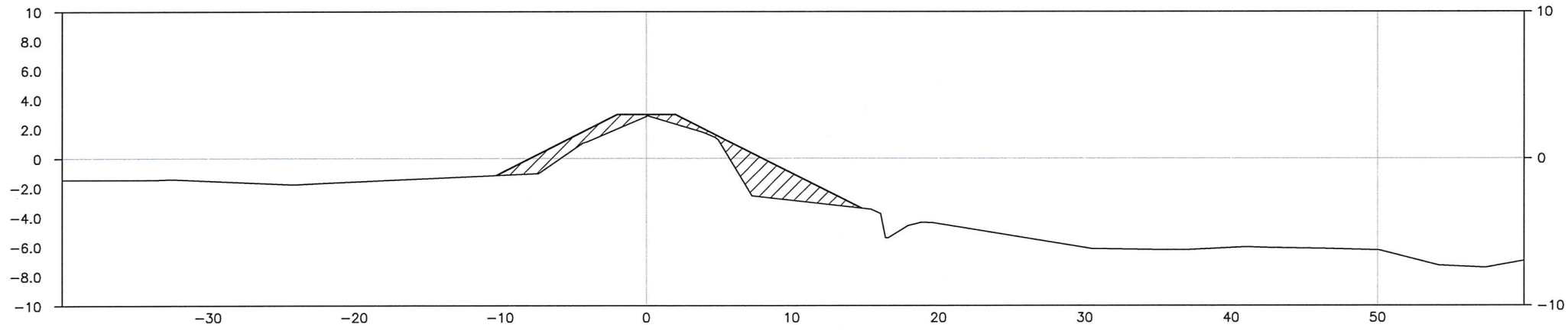




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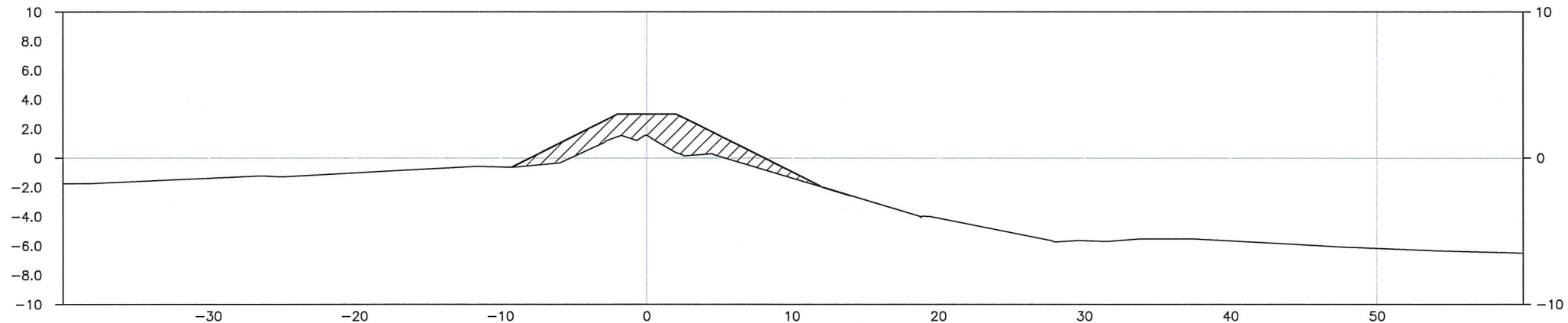


**LEGEND**  
 REQ'D ROCK DIKE

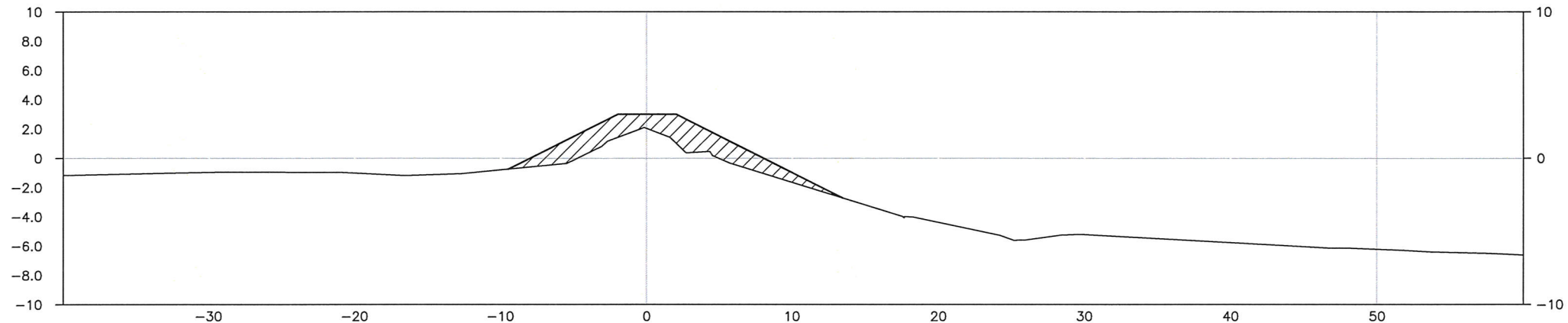


OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE		CROSS SECTIONS GIWW	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	SELLERS & ASSOCIATES, INC. 148-B EASY STREET LAFAYETTE, LA 70506			
STATE PROJECT NUMBER: TV-13A					DESIGNED BY: N. SONNIER		
DRAWN BY: J. FABRE		APPROVED BY: T. VINCENT			REV.	DATE	DESCRIPTION
DATE: JULY 2018							BY
SHEET 11 OF 13							

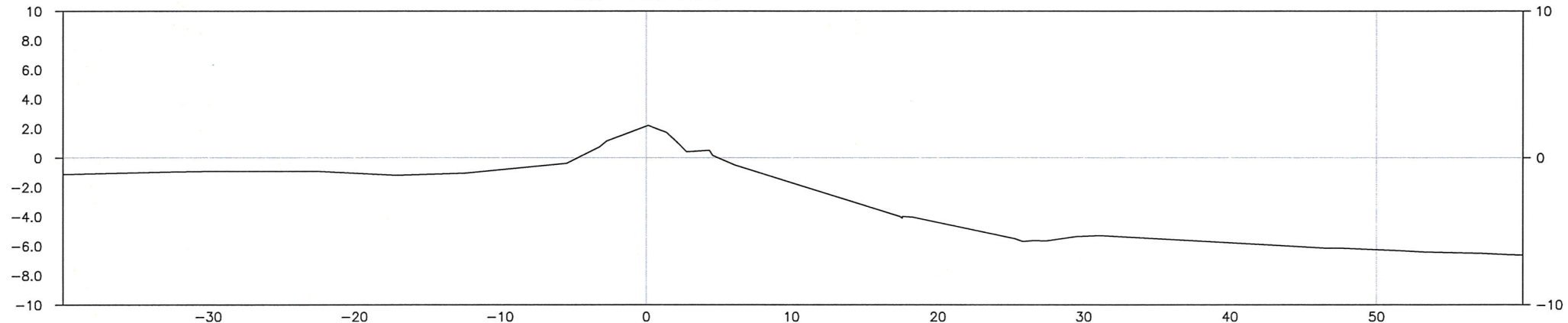




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**LEGEND**  
 REQ'D ROCK DIKE

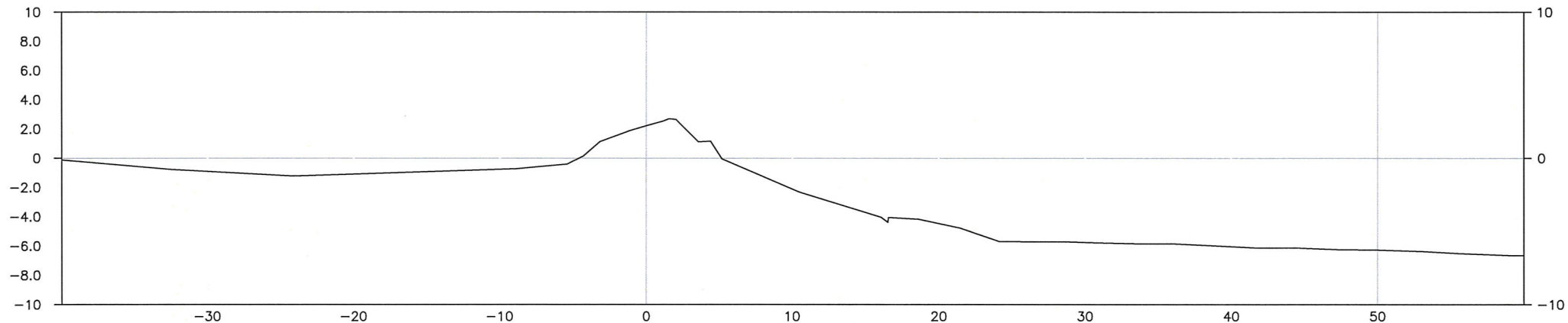


SELLERS &  
ASSOCIATES, INC.  
148-B EASY STREET  
LAFAYETTE, LA 70506

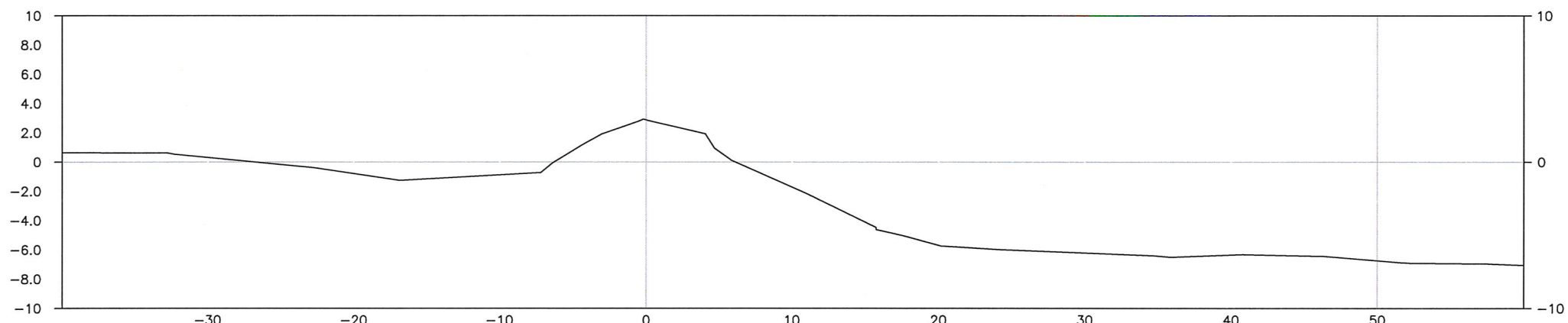
COASTAL PROTECTION  
AND RESTORATION  
AUTHORITY  
150 TERRACE AVENUE  
BATON ROUGE, LOUISIANA 70802

OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE	CROSS SECTIONS GIWW	DESIGNED BY: N. SONNIER APPROVED BY: T. VINCENT
	STATE PROJECT NUMBER: TV-13A DRAWN BY: J. FABRE	DATE: JULY 2018
SHEET 12 OF 13		





STA 4+50.00



STA 5+00.00



**LEGEND**  
 REQ'D ROCK DIKE



OAKS/AVERY HYDROLOGIC RESTORATION ROCK MAINTENANCE		CROSS SECTIONS GIWW		SELLERS & ASSOCIATES, INC. 148-B EASY STREET LAFAYETTE, LA 70506	
STATE PROJECT NUMBER: TV-13A	DESIGNED BY: N. SONNIER	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE
DRAWN BY: J. FABRE	APPROVED BY: T. VINCENT				
DATE: JULY 2018					
SHEET 13 OF 13				DESCRIPTION	BY