STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

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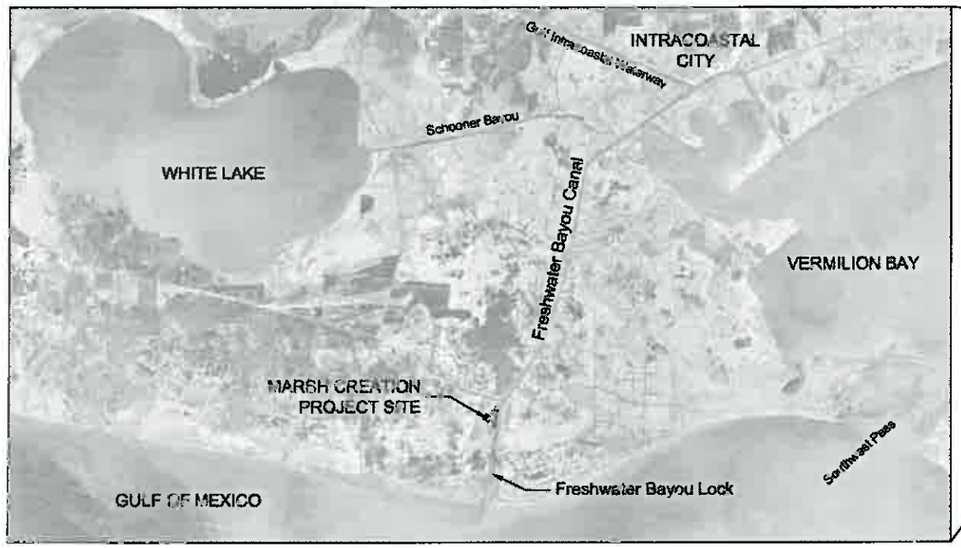
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU
STATE PROJECT NO. ME-25SF
VERMILION PARISH



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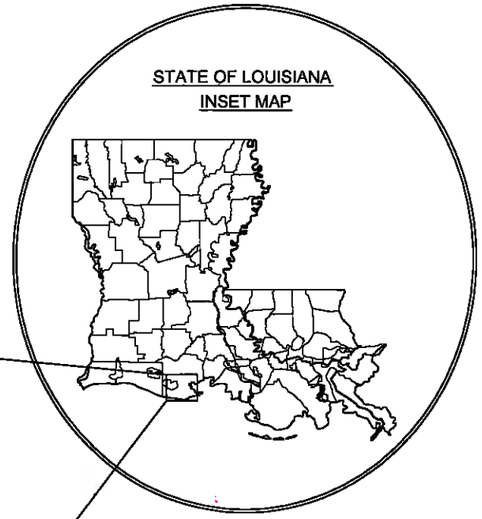

STATE OF LOUISIANA
TODD A. VINCENT
License No. 21843
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

10/24/13
CONSULTANT PROJECT ENGINEER

CHIEF, CPRA ENGINEERING DIVISION

CPRA ENGINEER MANAGER

CPRA PROJECT ENGINEER

LICENSURE CLASSIFICATION REQUIREMENTS

MAJOR CLASSIFICATION: HEAVY CONSTRUCTION

STATE OF LOUISIANA UNION JUSTICE CONFIDENCE

COASTAL PROTECTION AND RESTORATION AUTHORITY CPRA

STATE PROJECT SPONSOR

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70506 (337) 233-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

APPROVED BY: T. VINCENT

TITLE SHEET

DATE: JANUARY 2013

SHEET 1 OF 38

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GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88, 2006.81) (GEOID 03, 2004.65), U. S. SURVEY FEET (FEET). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD83, LOUISIANA STATE PLANE, SOUTH ZONE, U. S. FEET). ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS COMPLETED ON 12/15/2008 BY JOHN CHANCE LAND SURVEYS, INC. IMAGERY REPRODUCED FROM 2008 DOQQ 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 AND DREDGING ONLY WITHIN THE LIMITS OF THE BORROW AREA. CONTAINMENT DIKE CONSTRUCTION AND MAINTENANCE EQUIPMENT SHALL ACCESS THE MARSH CREATION AREA IN A MANNER WHICH MINIMIZES DAMAGE TO ADJACENT MARSH SUBJECT TO THE ENGINEER'S APPROVAL. THE 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-11 "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.

EL PASO / TENNESSEE GAS	TRANSCO / WILLIAMS	UNOCAL / CHEVRON	ACADIAN GAS / EPCO
CONTACT: JEFF FAWCETT	CONTACT: KEVIN WILKERSON	CONTACT: DANNY TRAHAN	CONTACT: BUDDY PIERCE
PHONE: (337) 738-6124	PHONE: (337) 457-3602	PHONE: (337) 898-3038	PHONE: (337) 351-1439
E-MAIL: Jeff.fawcett@elpaso.com		MOBILE: (337) 523-4651	
		PIPE SIZES: 4" & 6"	

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

EXXON MOBIL CORPORATION	VERMILION CORPORATION
CONTACT: PEGGY CARR	PHONE: (337) 893-0268
PHONE: (713) 431-1486	E-MAIL: bayou@connections-lct.com

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, 2006.81, US FEET.

8. THE MARSH CREATION AREA 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 DREDGE QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED ENDING ON 12/15/2008. THE VOLUMES WERE AVERAGED TO DETERMINE THE BID QUANTITIES. ACTUAL QUANTITIES WILL BE BASED ON A SURVEY DONE AS PART OF THIS CONTRACT AS REQUIRED IN TS 210 "CONSTRUCTION SURVEYS" OF THE SPECIFICATIONS. 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 THE BORROW AREA. 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 CENTERLINE ALIGNMENT OF ACCESS CHANNELS. MAGNETOMETER LINES IN THE BORROW AREA SHALL FORM A GRID PATTERN WITH A MAXIMUM OFFSET OF 500' APART AND SHALL BE ORIENTED NORTH/SOUTH AND EAST/WEST. THE DRAWING SHALL BE STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA. SEE SECTION TS-210.2.6 "MAGNETOMETER SURVEY" FOR ADDITIONAL REQUIREMENTS.

12. IN ADDITION TO THE MARSH CREATION PROJECT, A BANK STABILIZATION PROJECT MAY BE UNDER CONSTRUCTION OR MAY HAVE BEEN CONSTRUCTED PRIOR TO THIS MARSH CREATION PROJECT. THE ROCK DIKES SHOWN ARE TO BE CONSTRUCTED UNDER THE "CIAP FRESHWATER BAYOU BANK STABILIZATION PROJECT, STATE PROJECT NO. TV-11b(EB)".

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY MAINTAINING PUBLIC ACCESS WITHIN THE FRESHWATER BAYOU CHANNEL AND ALL NAVIGABLE LATERAL CHANNELS THAT THE SLURRY PIPELINE CROSSES INCLUDING HUMBLE CANAL AND UNION CANAL. THE CONTRACTOR SHALL PROVIDE A PROPOSED LAYOUT AND METHOD FOR CROSSING CHANNELS IN THE WORK PLAN FOR APPROVAL BY THE ENGINEER.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
101	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
210	MARSH CREATION SURVEYS	LUMP SUM	1
230	GRADE STAKES AND FLAGGING	EACH	16
330	HYDRAULIC DREDGING AND MARSH FILL (CUT VOLUME)	CUBIC YARDS	494,274
401	CONTAINMENT DIKES	LINEAR FEET	9,955
501	MARSH SETTLEMENT PLATES	EACH	2

ADDITIVE ALTERNATE NO. 1

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
101	ADDITIONAL MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
210	ADDITIONAL MARSH CREATION SURVEYS	LUMP SUM	1
230	ADDITIONAL GRADE STAKES AND FLAGGING	EACH	4
330	ADDITIONAL HYDRAULIC DREDGING AND MARSH FILL (CUT VOLUME)	CUBIC YARDS	161,226
401	ADDITIONAL CONTAINMENT DIKES	LINEAR FEET	329
501	ADDITIONAL MARSH SETTLEMENT PLATES	EACH	1

ADDITIVE ALTERNATE NO. 2

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
101	ADDITIONAL MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
210	ADDITIONAL MARSH CREATION SURVEYS	LUMP SUM	1
230	ADDITIONAL GRADE STAKES AND FLAGGING	EACH	5
330	ADDITIONAL HYDRAULIC DREDGING AND MARSH FILL (CUT VOLUME)	CUBIC YARDS	267,690
401	ADDITIONAL CONTAINMENT DIKES	LINEAR FEET	1,987

QUANTITIES SHOWN ARE FOR BID PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED ENDING ON 12/15/2008. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Bury Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

APPROVED BY: T. VINCENT

GENERAL NOTES & SUMMARY OF ESTIMATED QUANTITIES

DATE: JANUARY 2013

SHEET 2 OF 38

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MARSH SETTLEMENT PLATES		
PLATE	NORTHING	EASTING
SP-6	394,344.00	2,972,996.00
SP-7	395,493.00	2,973,300.00
SP-8	396,475.00	2,972,957.00

BASELINE COORDINATES		
POINT	NORTHING	EASTING
1	384,804.59	2,972,048.17
2	397,149.17	2,974,206.44
3	398,488.93	2,974,693.32
4	407,906.11	2,981,144.92

SOIL BORING LOCATIONS		
BORING	LATITUDE	LONGITUDE
B-2	N 29° 37' 16.73"	W 92° 16' 29.97"
B-3	N 29° 35' 51.16"	W 92° 17' 26.94"
B-4	N 29° 35' 37.98"	W 92° 17' 46.87"
B-5	N 29° 34' 45.16"	W 92° 18' 01.61"
B-6	N 29° 33' 53.90"	W 92° 18' 04.47"
B-9	N 29° 36' 35.86"	W 92° 16' 54.64"
B-10	N 29° 36' 17.54"	W 92° 17' 15.28"
B-11	N 29° 35' 04.22"	W 92° 18' 26.95"
B-12	N 29° 35' 11.73"	W 92° 18' 06.12"
B-13	N 29° 34' 50.26"	W 92° 18' 07.39"
B-14	N 29° 35' 10.21"	W 92° 17' 51.38"
B-15	N 29° 34' 27.44"	W 92° 17' 58.35"
B-16	N 29° 34' 11.63"	W 92° 18' 07.39"

LEGEND

- WATER GAGE
- SOIL BORING
- BENCHMARK / MONUMENT
- SETTLEMENT PLATE
- SECTION LINE
- SURVEY TRANSECT
- ROCK DIKE (SEE SHEET 2-NOTE 12)
- BASELINE

2000' 1000' 0' 2000' 4000'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rena Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

PLAN LAYOUT
OVERALL AREA

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER | APPROVED BY: T. VINCENT | SHEET 3 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 03-15 Layouts.dwg Oct 24,2013 13:42

T17S - R1E
Section 13

70+00 75+00 80+00 85+00 90+00 95+00

BENCHMARK
BRASS CAP ECC
N 384,408.81
E 2,971,553.57
EL=5.27

Begin Borrow & Begin Canal Centerline Sta 78+00

MARSH CREATION BORROW

BASELINE

FRESHWATER BAYOU LOCK

GAGE NORTH

7L 7 7R

75'

77'

Freshwater Bayou Canal

T-1 T-2 T-3 T-4 T-5

CANAL CENTERLINE

Begin Baseline Sta 70+00.00

R1E - Section 13
R2E

T17S - R2E

Freshwater Bayou By-Pass Channel

LEGEND

- WATER GAGE
- SOIL BORING
- BENCHMARK / MONUMENT
- SECTION LINE
- SURVEY TRANSECT
- ROCK DIKE (SEE SHEET 2-NOTE 12)
- BASELINE
- CANAL CENTERLINE
- BORROW AREA

CENTERLINE AND TOE COORDINATES

POINT	NORTHING	EASTING
7	385,590.01	2,972,200.98
7L	385,602.93	2,972,127.10
7R	385,577.10	2,972,274.86
8	396,900.41	2,974,117.36
8L	396,912.94	2,974,043.41
8R	396,887.88	2,974,191.31
9	398,725.27	2,974,855.23
9L	398,767.66	2,974,793.36
9R	398,682.88	2,974,917.10
10	407,906.11	2,981,144.92

STATE OF LOUISIANA
LARRY CRAMER
License No 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rees Street, Lafayette, LA 70508 (337) 122-9777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

PLAN LAYOUT BORROW AREA

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER | APPROVED BY: T. VINCENT

SHEET 4 OF 38

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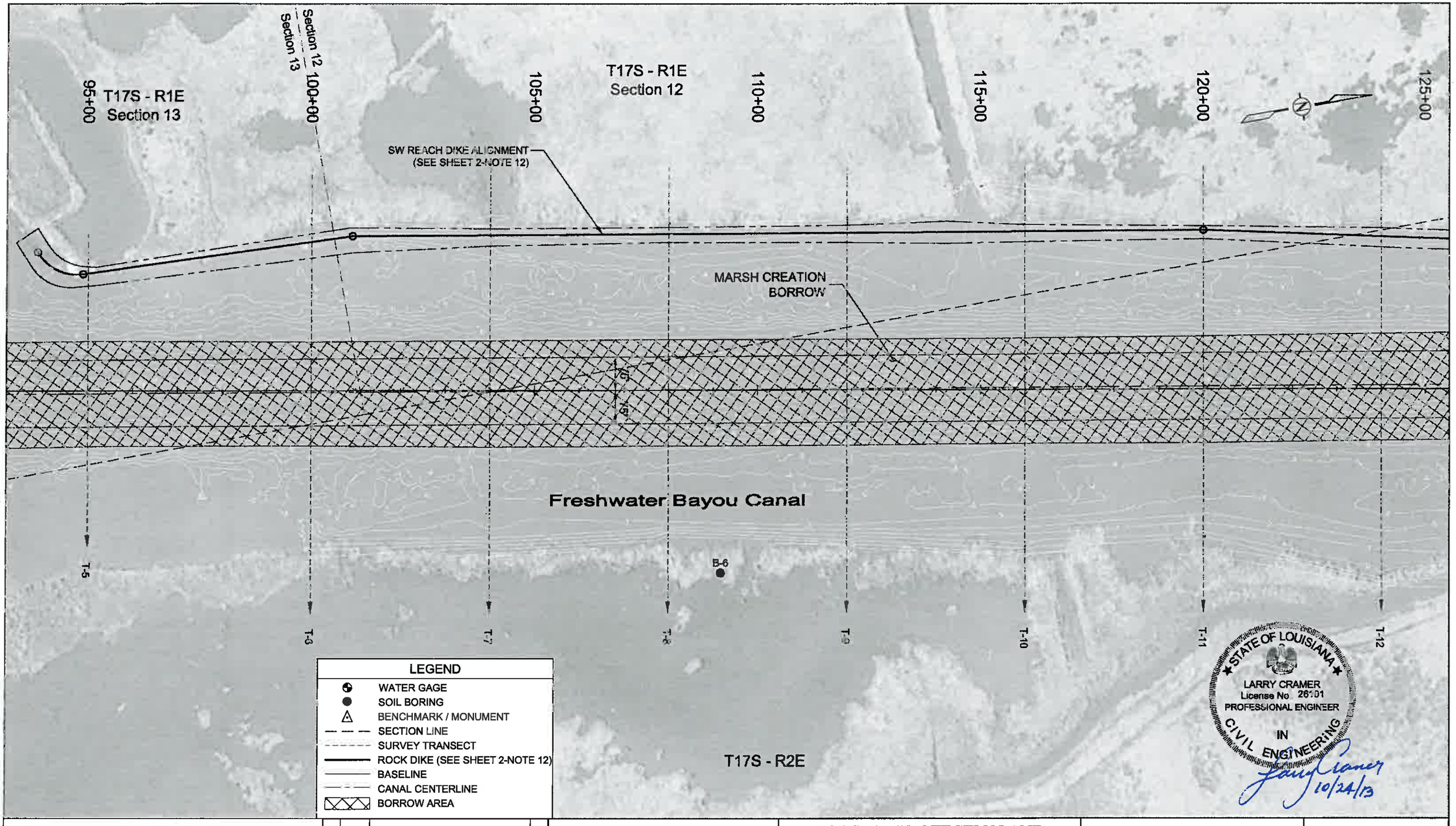

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Bay Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

APPROVED BY: T. VINCENT

PLAN LAYOUT
BORROW AREA

DATE: JANUARY 2013

SHEET 5 OF 38

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T17S - R1E
Section 12

R1E - Section 12
R2E

T17S - R2E

125+00 130+00 135+00 140+00 145+00 150+00 155+00

SW REACH DIKE ALIGNMENT
(SEE SHEET 2-NOTE 12)

MARSH CREATION
BORROW

CANAL CENTERLINE

B-16

15'

BASELINE

Freshwater Bayou Canal

STAFF GAGE #1

B-15

T-12 T-13 T-14 T-15 T-16 T-17 T-18 T-19 T-20

LEGEND

- WATER GAGE
- SOIL BORING
- BENCHMARK / MONUMENT
- SECTION LINE
- SURVEY TRANSECT
- ROCK DIKE (SEE SHEET 2-NOTE 12)
- BASELINE
- CANAL CENTERLINE
- BORROW AREA

STATE OF LOUISIANA
LARRY CRAMER
License No 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rue Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

PLAN LAYOUT
BORROW AREA

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

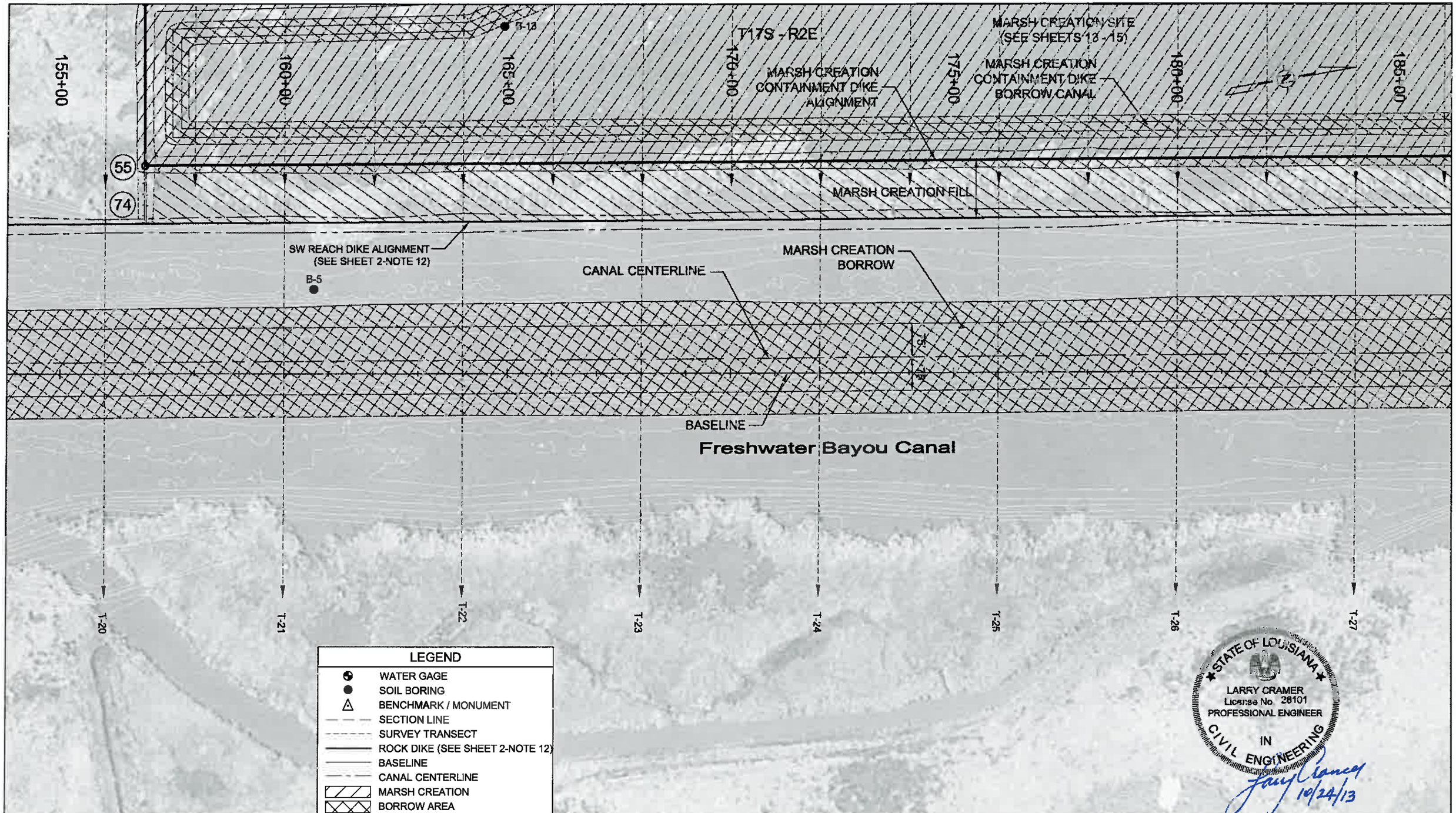
DRAWN BY: L. CRAMER

DESIGNED BY: L. CRAMER

APPROVED BY: T. VINCENT

SHEET 6 OF 38

N:\DATA\8242- Atkins GCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 03-15 Layouts.dwg Oct 24,2013 14:04



200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70508 (337) 233-9777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

PLAN LAYOUT
BORROW AREA

DATE: JANUARY 2013
SHEET 7 OF 38

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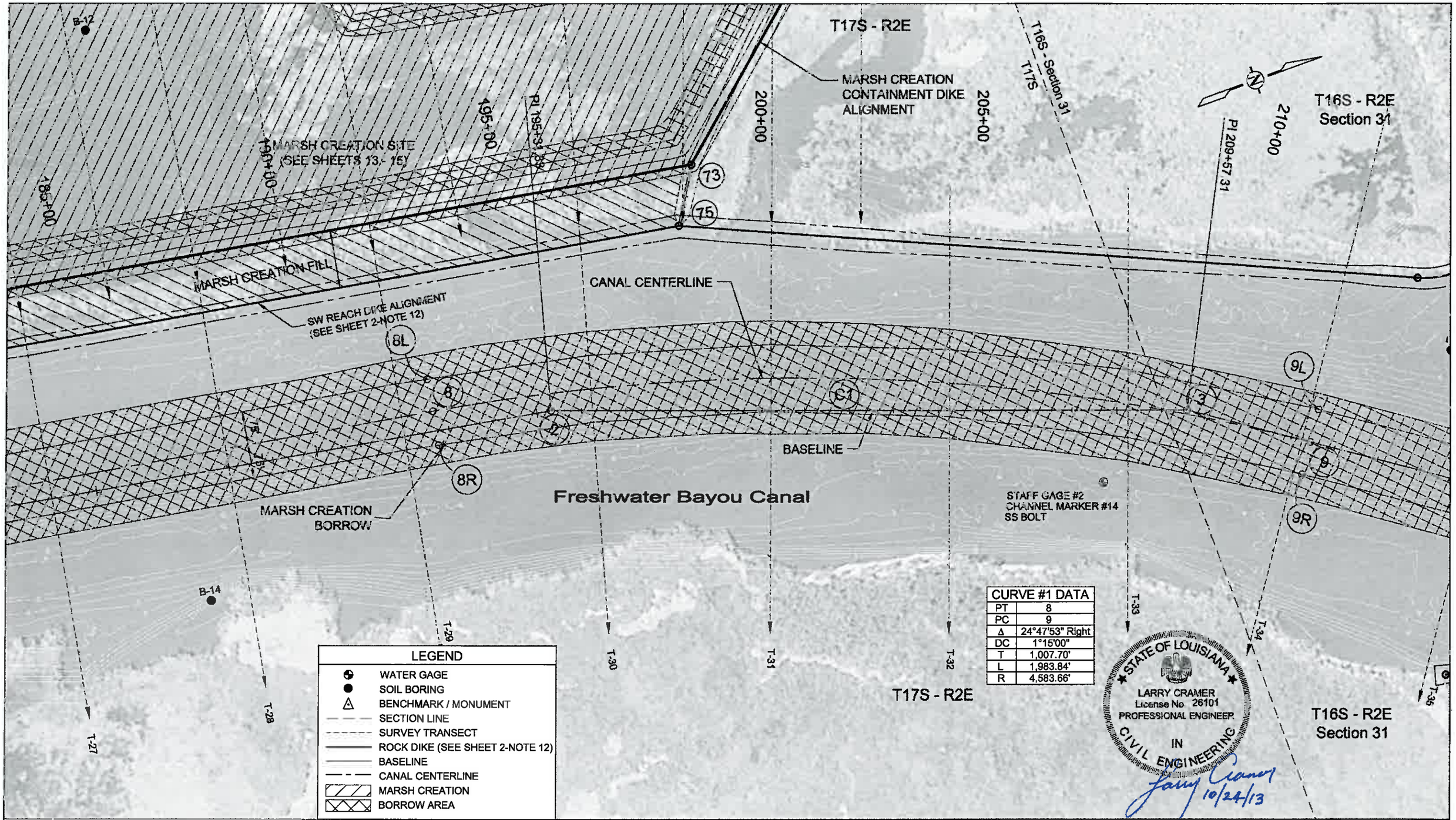

CURVE #1 DATA	
PT	8
PC	9
Δ	24°47'53" Right
DC	1°15'00"
T	1,007.70'
L	1,983.84'
R	4,583.66'

LEGEND

- WATER GAGE
- SOIL BORING
- BENCHMARK / MONUMENT
- SECTION LINE
- SURVEY TRANSECT
- ROCK DIKE (SEE SHEET 2-NOTE 12)
- BASELINE
- CANAL CENTERLINE
- MARSH CREATION
- BORROW AREA

STATE OF LOUISIANA
LARRY CRAMER
License No 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Larry Cramer 10/24/13

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
140-B Rue Street, Lafayette, LA 70508 (337) 233-2777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

APPROVED BY: T. VINCENT

PLAN LAYOUT
BORROW AREA

DATE: JANUARY 2013

SHEET 8 OF 38

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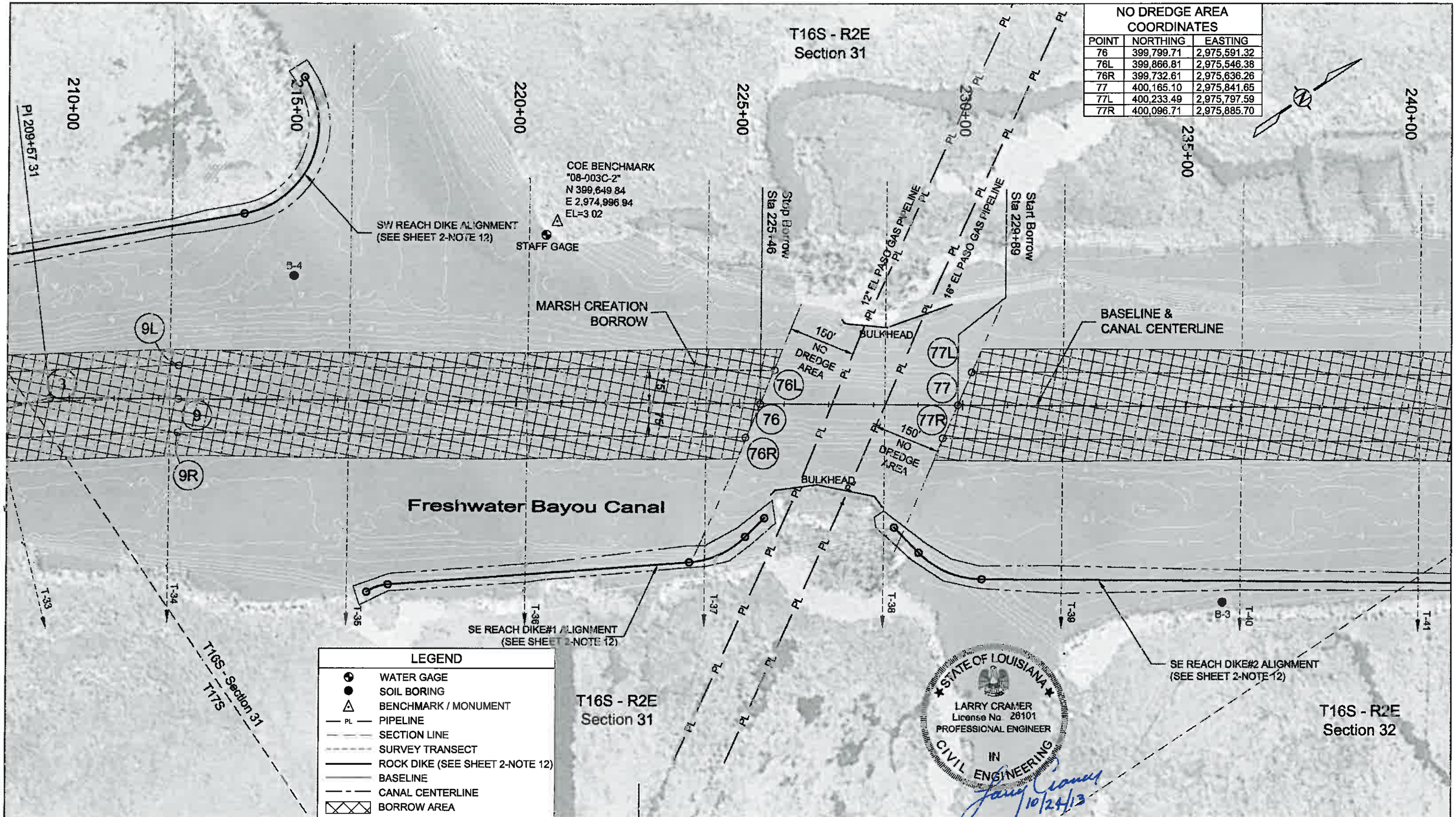

NO DREDGE AREA COORDINATES

POINT	NORTHING	EASTING
76	399,799.71	2,975,591.32
76L	399,866.81	2,975,546.38
76R	399,732.61	2,975,636.26
77	400,165.10	2,975,841.65
77L	400,233.49	2,975,797.59
77R	400,096.71	2,975,885.70

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

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ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70508 (337) 233-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
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SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

PLAN LAYOUT
BORROW AREA

DATE: JANUARY 2013
SHEET 9 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 03-15 Layouts.dwg Oct 24,2013 14:06

NO DREDGE AREA COORDINATES		
POINT	NORTHING	EASTING
78	402,464.67	2,977,417.06
78L	402,465.34	2,977,326.60
78R	402,464.01	2,977,507.51
79	402,763.17	2,977,621.56
79L	402,763.84	2,977,531.10
79R	402,762.51	2,977,712.01

T16S - R2E
Section 31

T16S - R2E
Section 29

240+00
245+00
250+00
255+00
260+00
265+00
270+00

Section 31
Section 32
Section 29
Section 32

Stop Borrow
Sta 257+77

Start Borrow
Sta 261+39

JOHN CHANCE
BENCHMARK
"ME04-SM-06" (TIGRE)
N 403,025.61
E 2,977,441.27
EL=2.18

B-10

BASELINE &
CANAL CENTERLINE

MARSH CREATION
BORROW

150'
NO
DREDGE
AREA

78L
78
78R
79L
79
79R

POSSIBLE PIPELINE

Freshwater Bayou Canal

T-41
T-42
T-43
T-45
T-46
T-47
T-48

SE REACH DIKE#2 ALIGNMENT
(SEE SHEET 2-NOTE 12)

T16S - R2E
Section 32

LEGEND	
	WATER GAGE
	SOIL BORING
	BENCHMARK / MONUMENT
PL	PIPELINE
	SECTION LINE
	SURVEY TRANSECT
	ROCK DIKE (SEE SHEET 2-NOTE 12)
	BASELINE
	CANAL CENTERLINE
	BORROW AREA

STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

PLAN LAYOUT
BORROW AREA

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

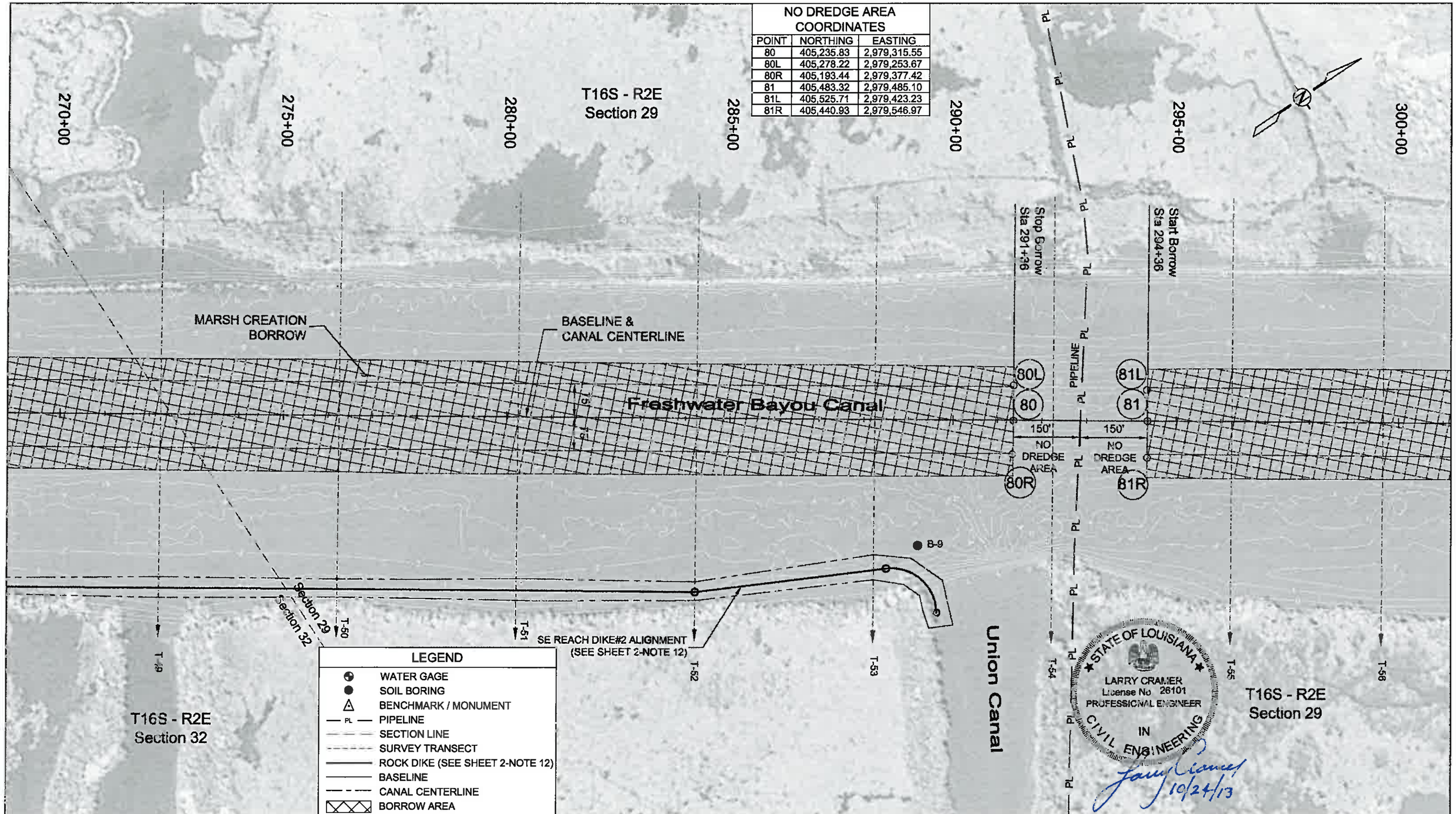
DRAWN BY: L. CRAMER

DESIGNED BY: L. CRAMER

APPROVED BY: T. VINCENT

SHEET 10 OF 38

N:\DATA\6242- Atkins OCPR IDIQ\6242-03 FWB Marsh Creation\100% Plans\6242-03 03-15 Layouts.dwg Oct 24,2013 14:07



NO DREDGE AREA COORDINATES

POINT	NORTHING	EASTING
80	405,235.83	2,979,315.55
80L	405,278.22	2,979,253.67
80R	405,193.44	2,979,377.42
81	405,483.32	2,979,485.10
81L	405,525.71	2,979,423.23
81R	405,440.93	2,979,546.97

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 233-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

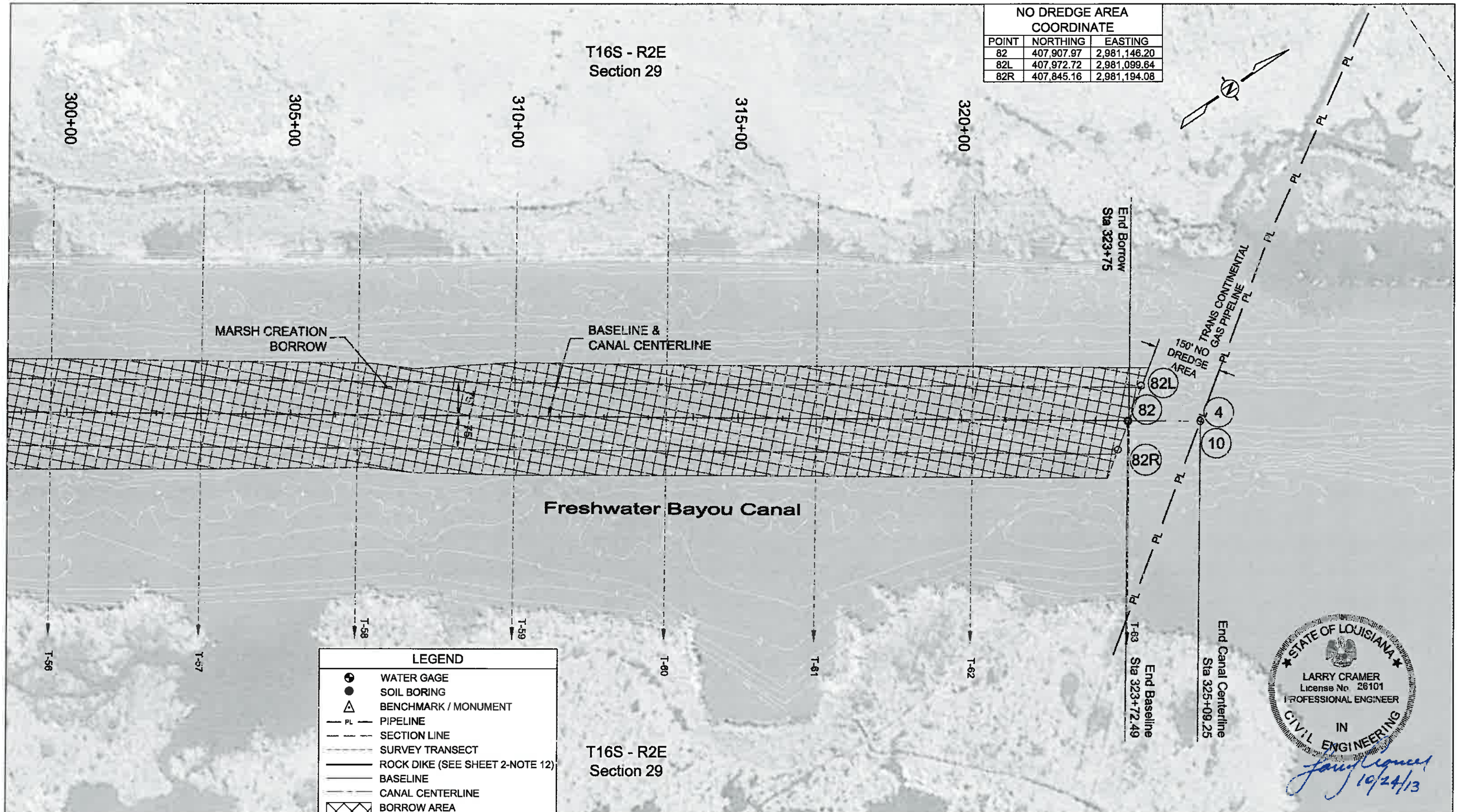
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

PLAN LAYOUT
BORROW AREA

DATE: JANUARY 2013
SHEET 11 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 03-15 Layouts.dwg Oct 24,2013 14:08



NO DREDGE AREA COORDINATE

POINT	NORTHING	EASTING
82	407,907.97	2,981,146.20
82L	407,972.72	2,981,099.64
82R	407,845.16	2,981,194.08

200' 100' 0' 200' 400'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 323-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

PLAN LAYOUT
BORROW AREA

DATE: JANUARY 2013
SHEET 12 OF 38

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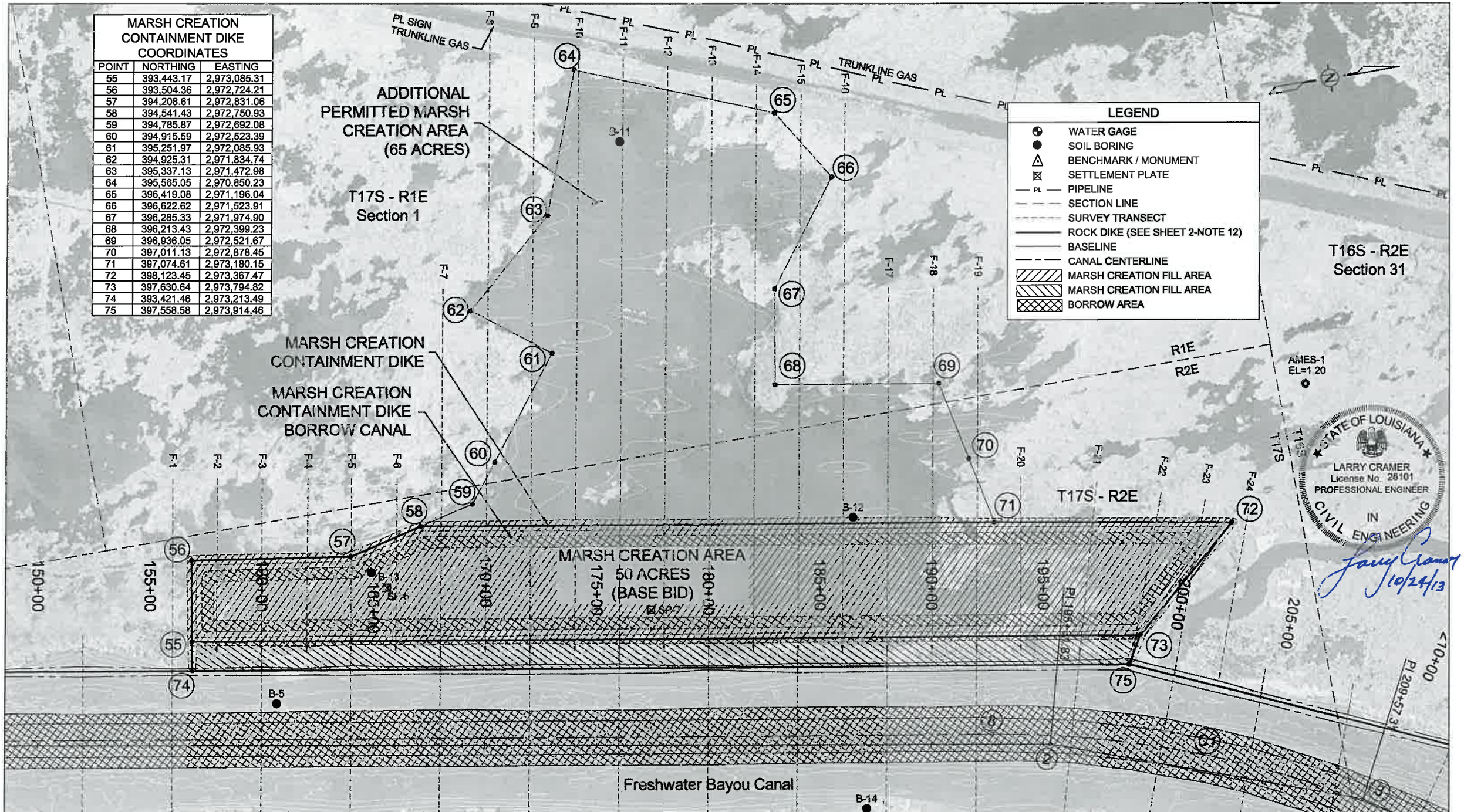

MARSH CREATION CONTAINMENT DIKE COORDINATES

POINT	NORTHING	EASTING
55	393,443.17	2,973,085.31
56	393,504.36	2,972,724.21
57	394,208.61	2,972,831.06
58	394,541.43	2,972,750.93
59	394,785.87	2,972,692.08
60	394,915.59	2,972,523.39
61	395,251.97	2,972,085.93
62	394,925.31	2,971,834.74
63	395,337.13	2,971,472.98
64	395,565.05	2,970,850.23
65	396,419.08	2,971,196.04
66	396,622.62	2,971,523.91
67	396,285.33	2,971,974.90
68	396,213.43	2,972,399.23
69	396,936.05	2,972,521.67
70	397,011.13	2,972,878.45
71	397,074.61	2,973,180.15
72	398,123.45	2,973,367.47
73	397,630.64	2,973,794.82
74	393,421.46	2,973,213.49
75	397,558.58	2,973,914.46

400' 200' 0' 400' 800'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU
STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

PLAN LAYOUT
MARSH CREATION AREA
DATE: JANUARY 2013
SHEET 13 OF 38

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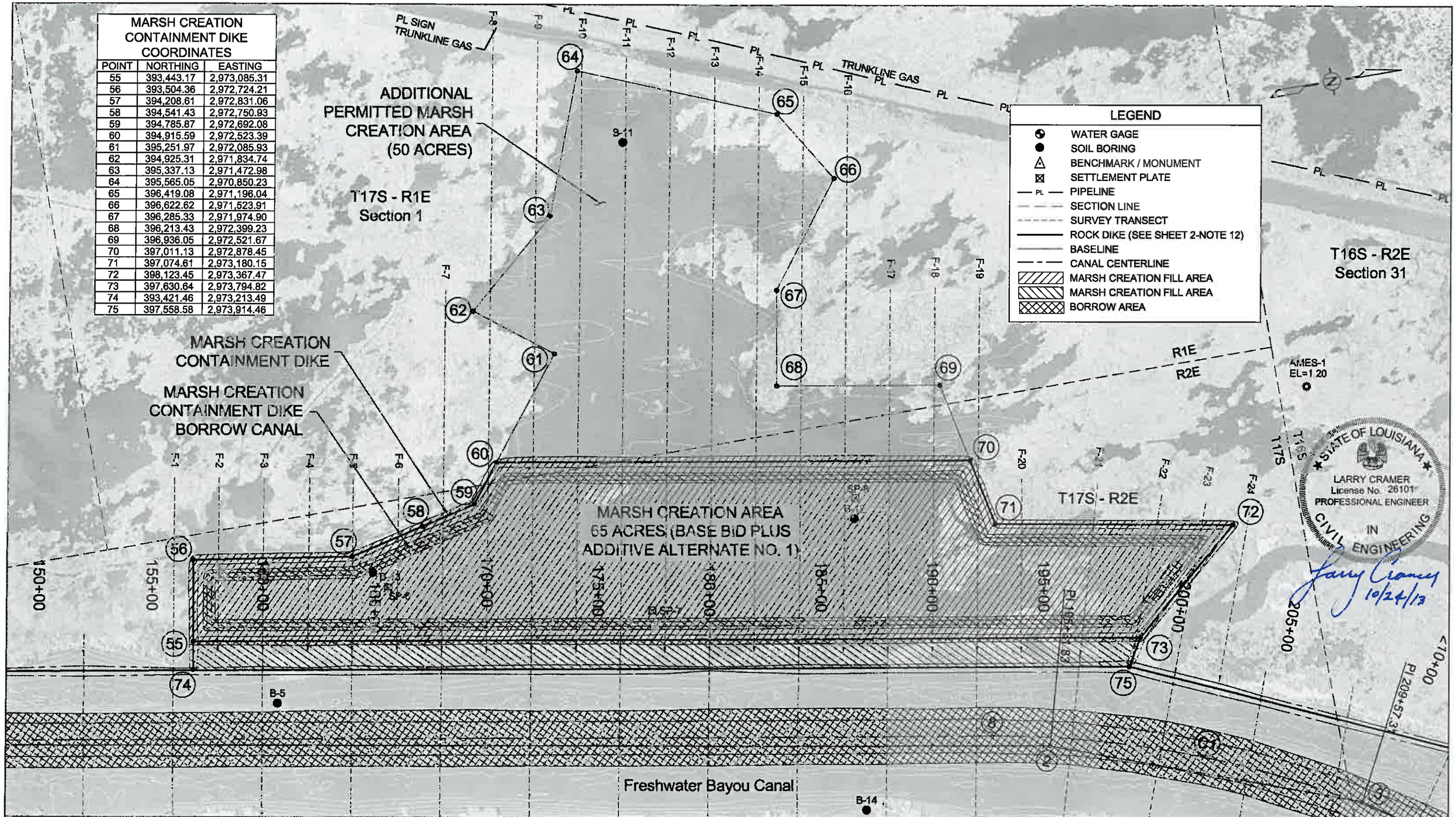
MARSH CREATION CONTAINMENT DIKE COORDINATES		
POINT	NORTHING	EASTING
55	393,443.17	2,973,085.31
56	393,504.36	2,972,724.21
57	394,208.61	2,972,831.06
58	394,541.43	2,972,750.93
59	394,785.87	2,972,692.08
60	394,915.59	2,972,523.39
61	395,251.97	2,972,085.93
62	394,925.31	2,971,834.74
63	395,337.13	2,971,472.98
64	395,565.05	2,970,850.23
65	396,419.08	2,971,196.04
66	396,622.62	2,971,523.91
67	396,285.33	2,971,974.90
68	396,213.43	2,972,399.23
69	396,936.05	2,972,521.67
70	397,011.13	2,972,878.45
71	397,074.61	2,973,180.15
72	398,123.45	2,973,367.47
73	397,630.64	2,973,794.82
74	393,421.46	2,973,213.49
75	397,558.58	2,973,914.46



400' 200' 0' 400' 800'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70508 (337) 313-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU
STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

PLAN LAYOUT
MARSH CREATION AREA
DATE: JANUARY 2013
SHEET 14 OF 38

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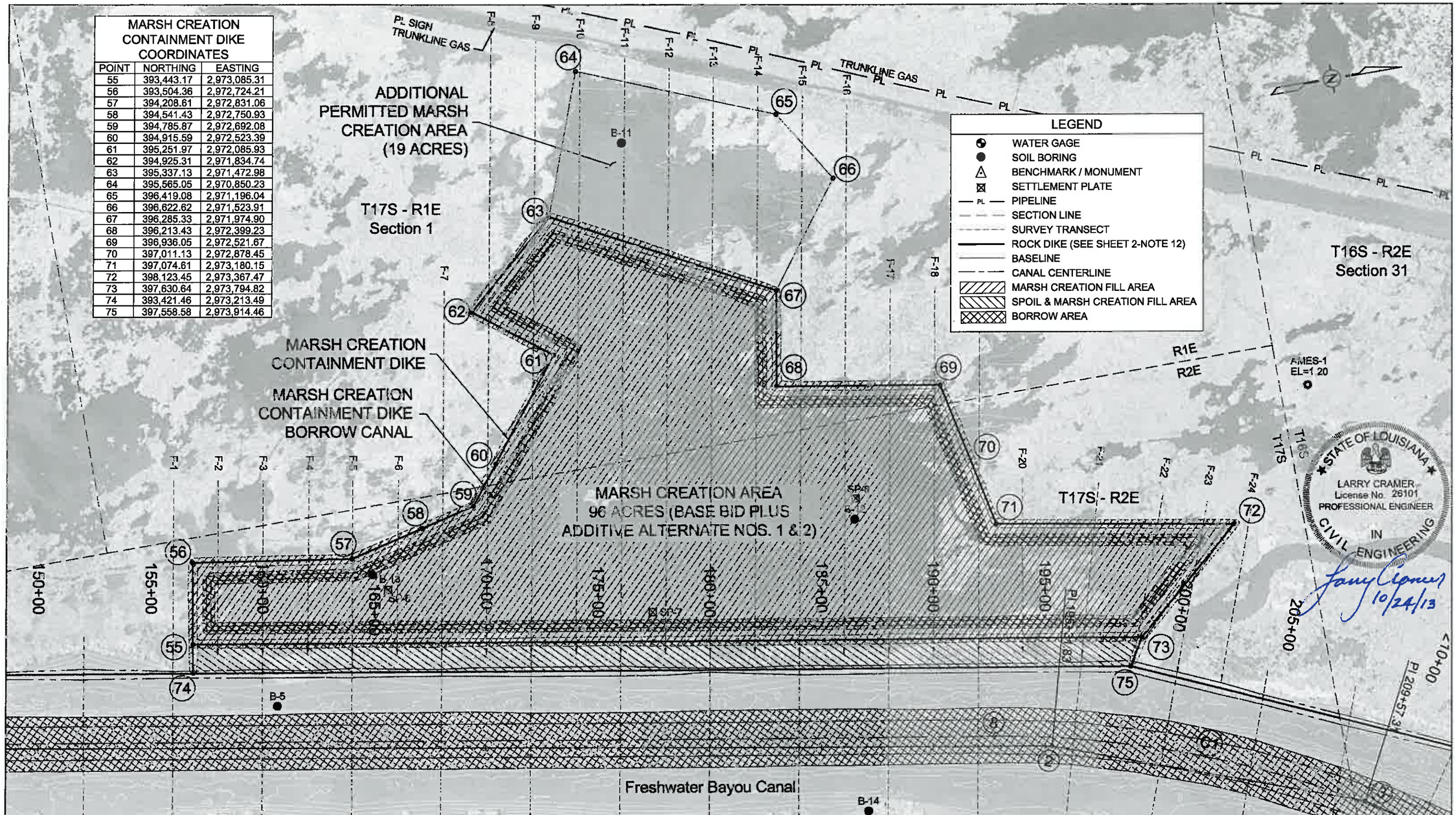
MARSH CREATION CONTAINMENT DIKE COORDINATES		
POINT	NORTHING	EASTING
55	393,443.17	2,973,085.31
56	393,504.36	2,972,724.21
57	394,208.61	2,972,831.06
58	394,541.43	2,972,750.93
59	394,785.87	2,972,692.08
60	394,915.59	2,972,523.39
61	395,251.97	2,972,085.93
62	394,925.31	2,971,834.74
63	395,337.13	2,971,472.98
64	395,565.05	2,970,850.23
65	396,419.08	2,971,196.04
66	396,622.62	2,971,523.91
67	396,285.33	2,971,974.90
68	396,213.43	2,972,399.23
69	396,936.05	2,972,521.67
70	397,011.13	2,972,878.45
71	397,074.61	2,973,180.15
72	398,123.45	2,973,367.47
73	397,630.64	2,973,794.82
74	393,421.46	2,973,213.49
75	397,558.58	2,973,914.46



400' 200' 0' 400' 800'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

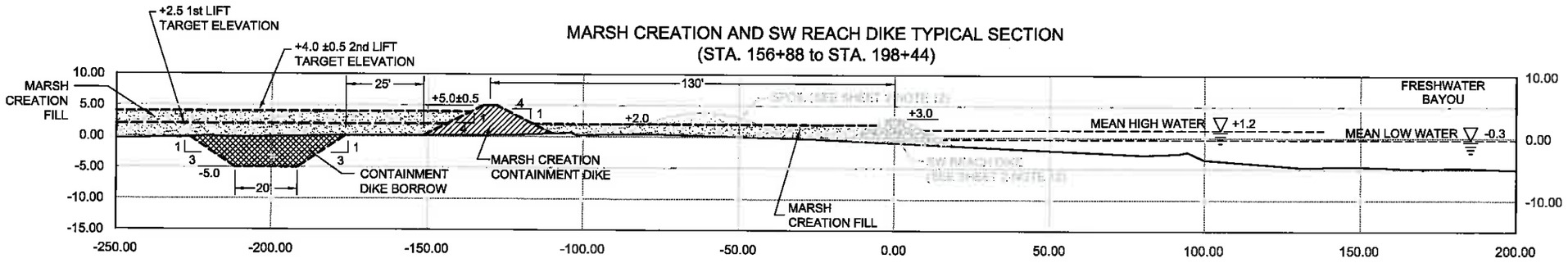
DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU
STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

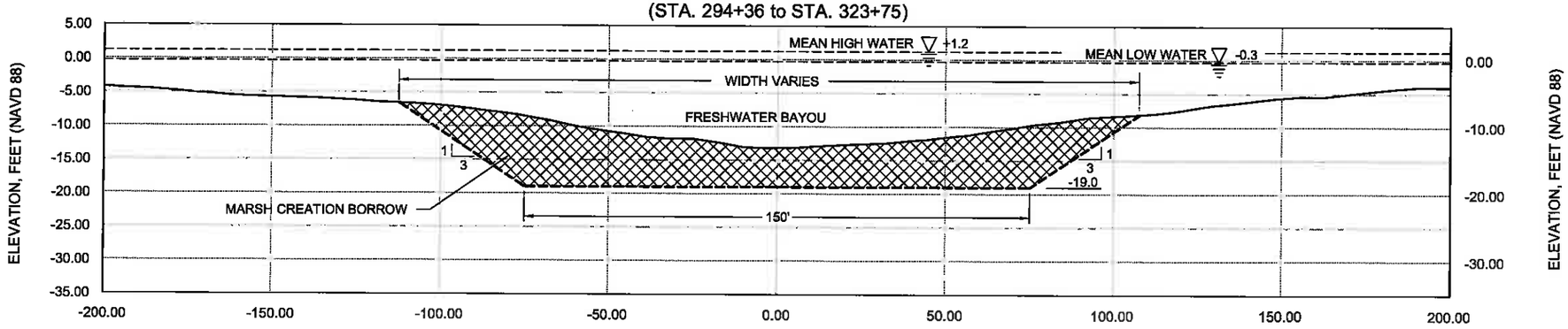
PLAN LAYOUT
MARSH CREATION AREA
DATE: JANUARY 2013
SHEET 15 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 03-15 Layouts.dwg Oct 24,2013 14:12

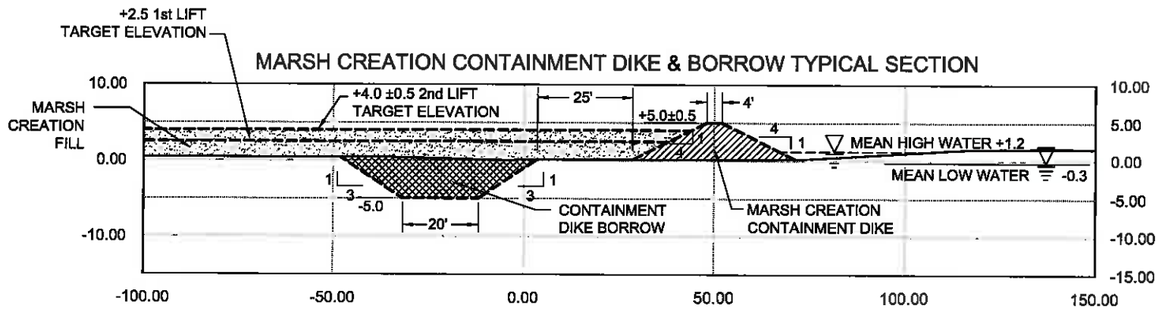
MARSH CREATION AND SW REACH DIKE TYPICAL SECTION
(STA. 156+88 to STA. 198+44)



FWB BORROW TYPICAL SECTION
(STA. 78+00 to STA. 225+46)
(STA. 229+89 to STA. 257+77)
(STA. 261+39 to STA. 291+36)
(STA. 294+36 to STA. 323+75)



MARSH CREATION CONTAINMENT DIKE & BORROW TYPICAL SECTION



STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

HORIZONTAL GRAPHIC SCALE
40' 20' 0 40' 80'
VERTICAL GRAPHIC SCALE
20' 10' 0 20' 40'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rees Street, Lafayette, LA 70508 (337) 235-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: MJC / L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

APPROVED BY: T. VINCENT

TYPICAL SECTIONS

DATE: JANUARY 2013

SHEET 16 OF 38

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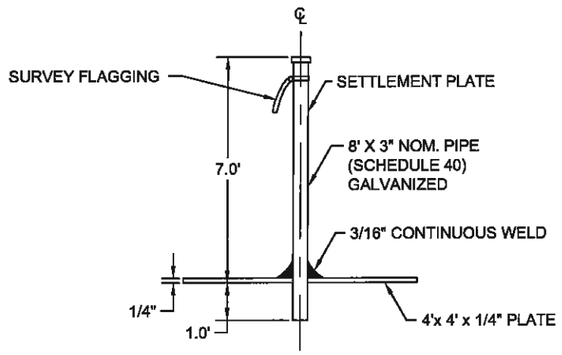


MARSH CREATION SETTLEMENT PLATE

NOT TO SCALE

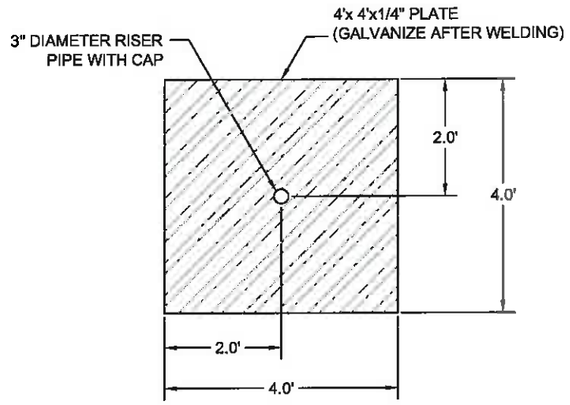
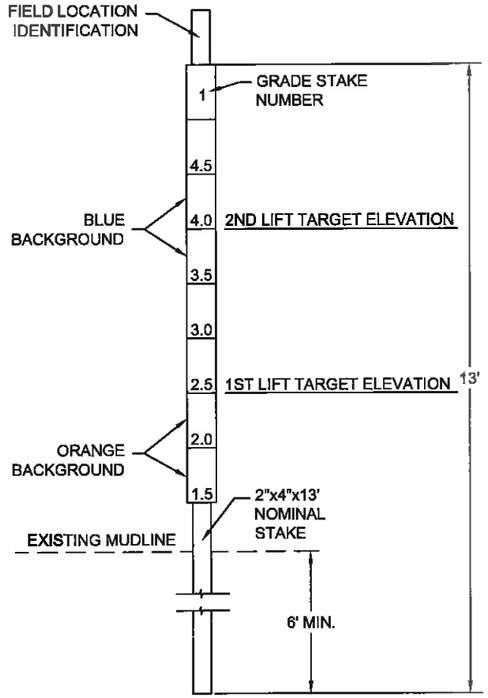


PLATE DETAIL

NOT TO SCALE



GRADE STAKE DETAIL

NOT TO SCALE

SETTLEMENT PLATE NOTES:

1. MARSH SETTLEMENT PLATES SHALL BE INSTALLED WITHIN 100 FOOT RADIUS OF EXISTING GEOTECHNICAL BORINGS AS SHOWN ON THE PLANS.
2. ALL SETTLEMENT PLATES SHALL BE SURVEYED UNDER THE SUPERVISION OF THE ENGINEER OR RESIDENT PROJECT REPRESENTATIVE WITHIN ONE DAY OF INSTALLATION AND WEEKLY FOR THE DURATION OF THE PROJECT AND IN ACCORDANCE WITH TS-210.
3. SETTLEMENT PLATES SHALL BE BUILT USING ASTM A36 STEEL AND HOT-DIPPED GALVANIZED AFTER FABRICATION PER SPECIFICATIONS TS-501 "MARSH SETTLEMENT PLATES".

STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Larry Cramer 10/24/13

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70508 (337) 233-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: MJC / L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

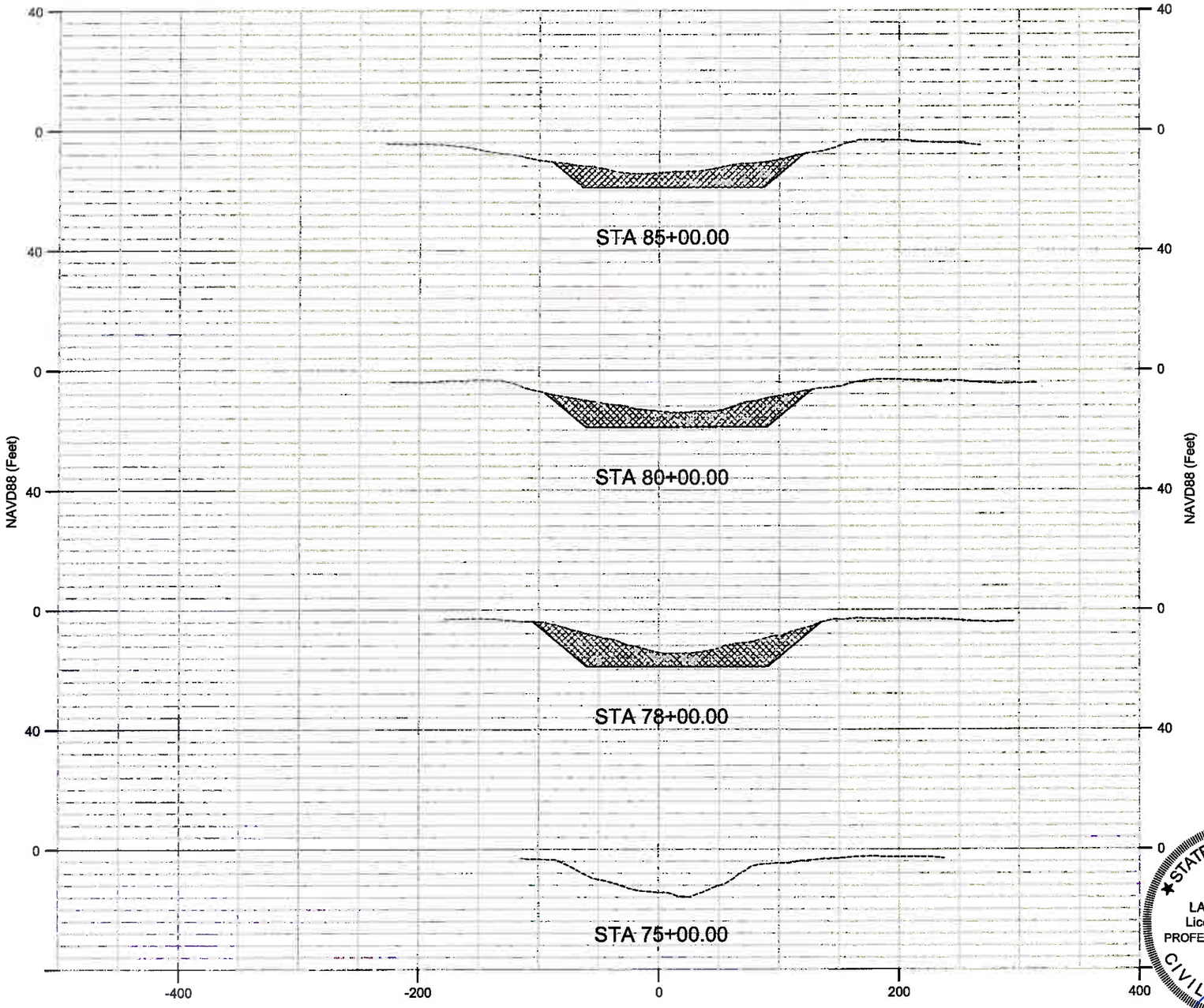
FEDERAL PROJECT NUMBER: ME-25SF

APPROVED BY: T. VINCENT

TYPICAL DETAILS

DATE: JANUARY 2013

SHEET 17 OF 38



TRANSECTS						
		BEGINNING		ENDING		
TRANSECT	STATION	NORTHING	EASTING	NORTHING	EASTING	LENGTH
T-1	75+00	385,267	2,972,307	385,327	2,971,962	350'
T-2	80+00	385,760	2,972,393	385,820	2,972,048	350'
T-3	85+00	386,252	2,972,479	386,312	2,972,134	350'
T-4	90+00	386,745	2,972,565	386,805	2,972,220	350'
T-5	95+00	387,207	2,972,824	387,328	2,972,134	700'
T-6	100+00	387,674	2,973,057	387,846	2,972,072	1000'
T-7	104+00	388,068	2,973,126	388,240	2,972,141	1000'
T-8	108+00	388,462	2,973,195	388,634	2,972,210	1000'
T-9	112+00	388,856	2,973,264	389,028	2,972,279	1000'
T-10	116+00	389,250	2,973,333	389,422	2,972,348	1000'
T-11	120+00	389,644	2,973,402	389,816	2,972,417	1000'
T-12	124+00	390,038	2,973,471	390,210	2,972,486	1000'
T-13	128+00	390,432	2,973,540	390,604	2,972,555	1000'
T-14	132+00	390,826	2,973,608	390,998	2,972,623	1000'
T-15	136+00	391,220	2,973,677	391,392	2,972,692	1000'
T-16	140+00	391,614	2,973,746	391,786	2,972,761	1000'
T-17	144+00	392,008	2,973,815	392,180	2,972,830	1000'
T-18	148+00	392,402	2,973,884	392,574	2,972,899	1000'
T-19	152+00	392,796	2,973,953	392,968	2,972,968	1000'
T-20	156+00	393,190	2,974,022	393,348	2,973,116	920'
T-21	160+00	393,584	2,974,091	393,742	2,973,184	920'
T-22	164+00	393,978	2,974,160	394,136	2,973,253	920'
T-23	168+00	394,370	2,974,228	394,532	2,973,323	920'
T-24	172+00	394,764	2,974,297	394,926	2,973,391	920'
T-25	176+00	395,158	2,974,366	395,320	2,973,460	920'
T-26	180+00	395,552	2,974,435	395,714	2,973,529	920'
T-27	184+00	395,946	2,974,504	396,108	2,973,598	920'
T-28	188+00	396,340	2,974,573	396,502	2,973,667	920'
T-29	192+00	396,734	2,974,641	396,896	2,973,736	920'
T-30	196+25	397,102	2,974,721	397,350	2,973,832	923'
T-31	200+25	397,442	2,974,845	397,756	2,973,980	920'
T-32	204+25	397,818	2,974,981	398,159	2,974,042	1000'
T-33	208+25	398,194	2,975,118	398,535	2,974,178	1000'
T-34	212+25	399,162	2,974,185	398,427	2,975,257	1300'
T-35	216+25	398,755	2,975,486	399,492	2,974,411	1304'
T-36	220+25	399,087	2,975,709	399,652	2,974,884	1000'
T-37	224+25	399,417	2,975,935	399,982	2,975,110	1000'
T-38	228+25	399,747	2,976,161	400,312	2,975,336	1000'
T-39	232+25	400,077	2,976,387	400,642	2,975,562	1000'
T-40	236+25	400,407	2,976,614	400,972	2,975,789	1000'
T-41	240+25	400,737	2,976,840	401,302	2,976,015	1000'
T-42	244+25	401,067	2,977,066	401,632	2,976,241	1000'
T-43	248+25	401,397	2,977,292	401,962	2,976,467	1000'
T-44	252+25	401,727	2,977,518	402,292	2,976,693	1000'
T-45	256+25	402,057	2,977,744	402,622	2,976,919	1000'
T-46	260+25	402,387	2,977,970	402,952	2,977,145	1000'
T-47	264+25	402,717	2,978,196	403,282	2,977,371	1000'
T-48	268+25	403,047	2,978,422	403,612	2,977,597	1000'
T-49	272+25	403,377	2,978,648	403,942	2,977,823	1000'
T-50	276+25	403,707	2,978,874	404,272	2,978,049	1000'
T-51	280+25	404,037	2,979,100	404,602	2,978,275	1000'
T-52	284+25	404,367	2,979,326	404,932	2,978,501	1000'
T-53	288+25	404,697	2,979,552	405,262	2,978,727	1000'
T-54	292+25	405,027	2,979,779	405,592	2,978,954	1000'
T-55	296+25	405,357	2,980,005	405,922	2,979,180	1000'
T-56	299+65	405,637	2,980,197	406,203	2,979,372	1000'
T-57	303+00	405,914	2,980,386	406,479	2,979,561	1000'
T-58	306+75	406,203	2,980,584	406,768	2,979,759	1000'
T-59	310+00	406,491	2,980,782	407,056	2,979,957	1000'
T-60	313+40	406,772	2,980,974	407,337	2,980,149	1000'
T-61	316+75	407,048	2,981,163	407,613	2,980,338	1000'
T-62	320+25	407,337	2,981,361	407,902	2,980,536	1000'
T-63	323+75	407,626	2,981,559	408,191	2,980,734	1000'

STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Bray Street, Lafayette, LA 70508 (337) 839-9777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

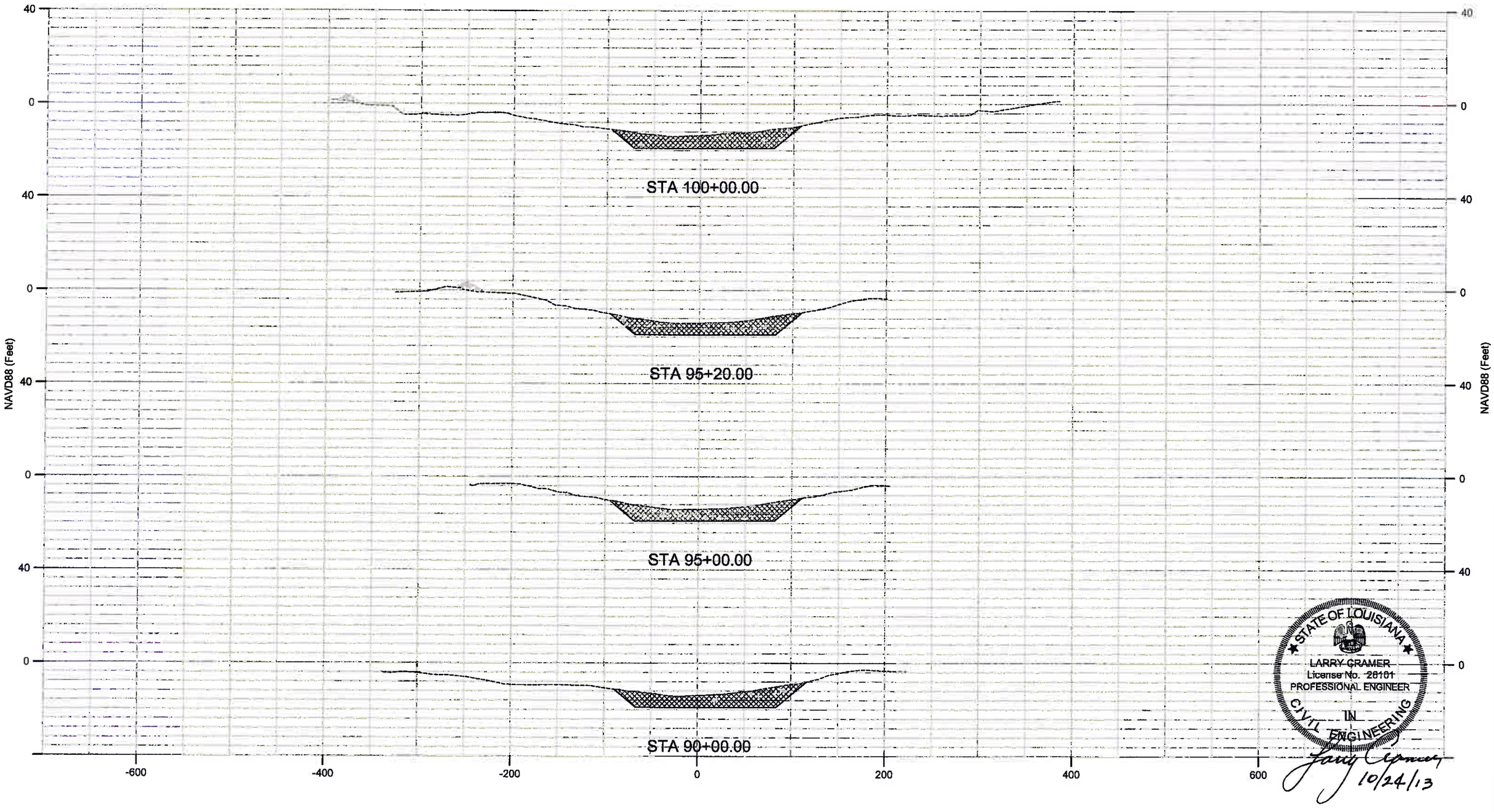
FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER | APPROVED BY: T. VINCENT

SHEET 18 OF 38

N:\DATA\8242- Atchafalaya OCPR IDIQ\8242-03 FWS Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:26



STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
VERTICAL SCALE
40' 20' 0 40' 80'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rue Street, Lafayette, LA 70508 (337) 235-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

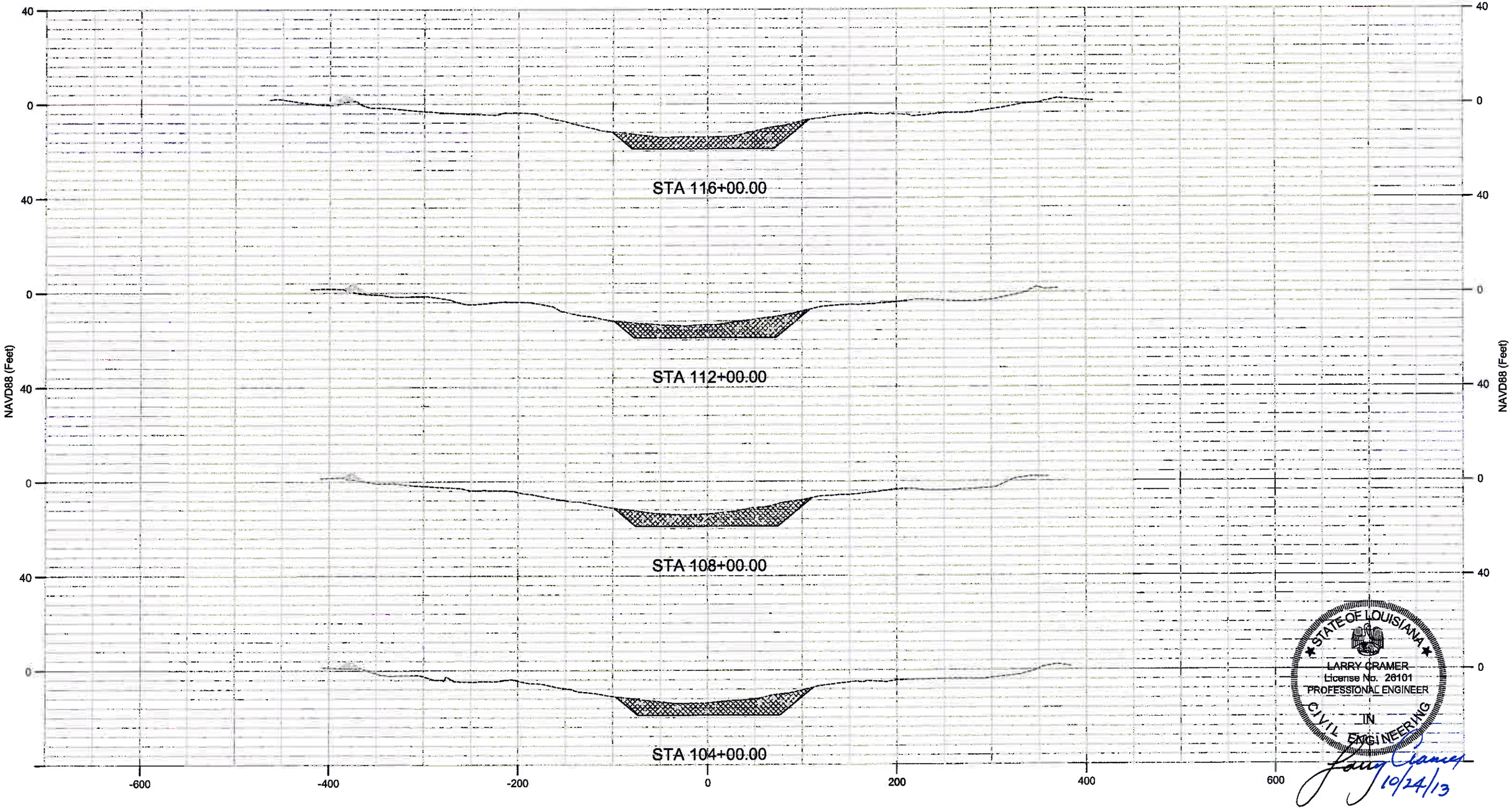
DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

APPROVED BY: T. VINCENT

SHEET 19 OF 38

N:\DATA\8242- Atkins OCPR 1010\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 XsecNons.dwg Oct 24,2013 14:28



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

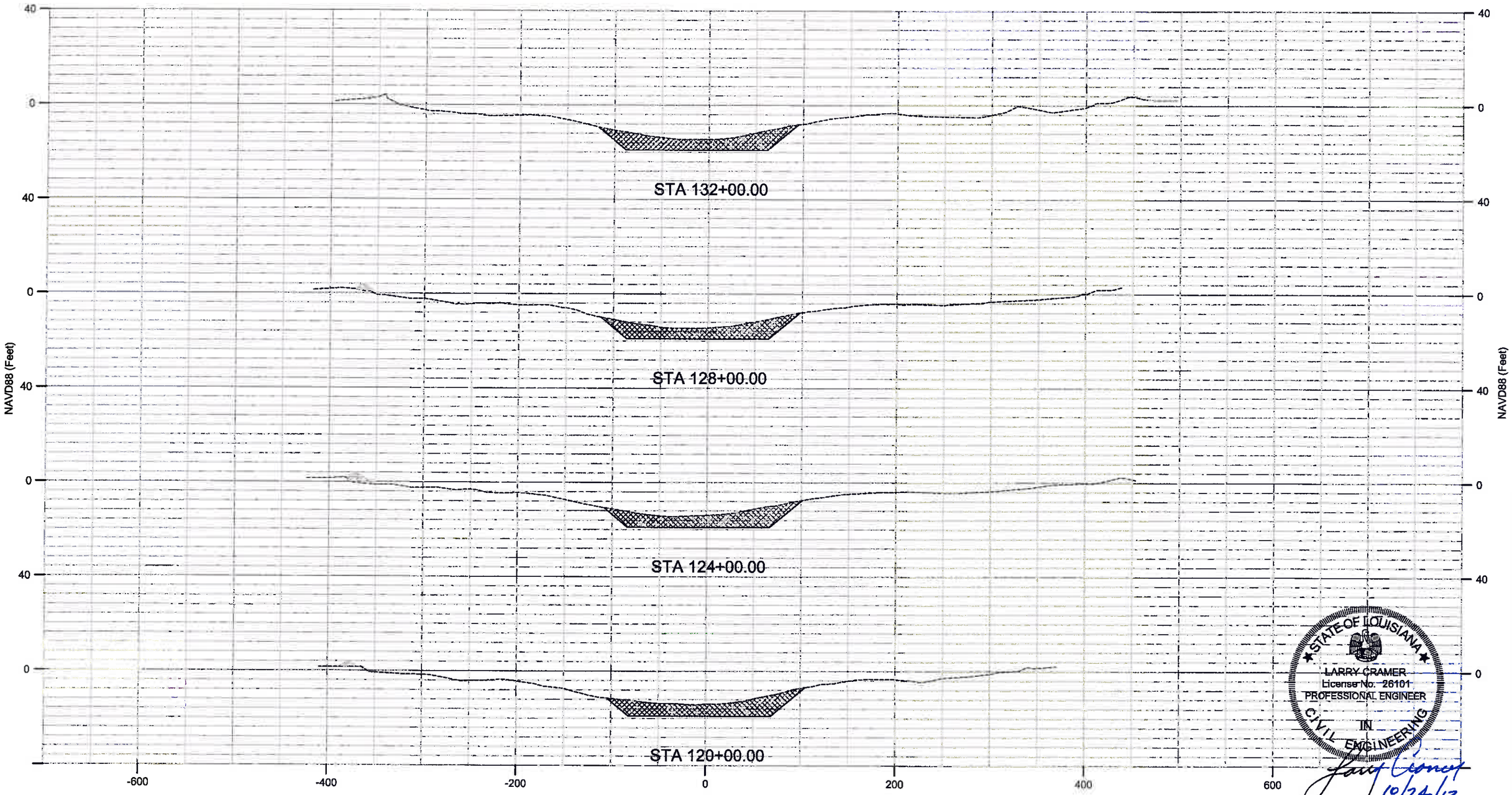
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 20 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:28



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

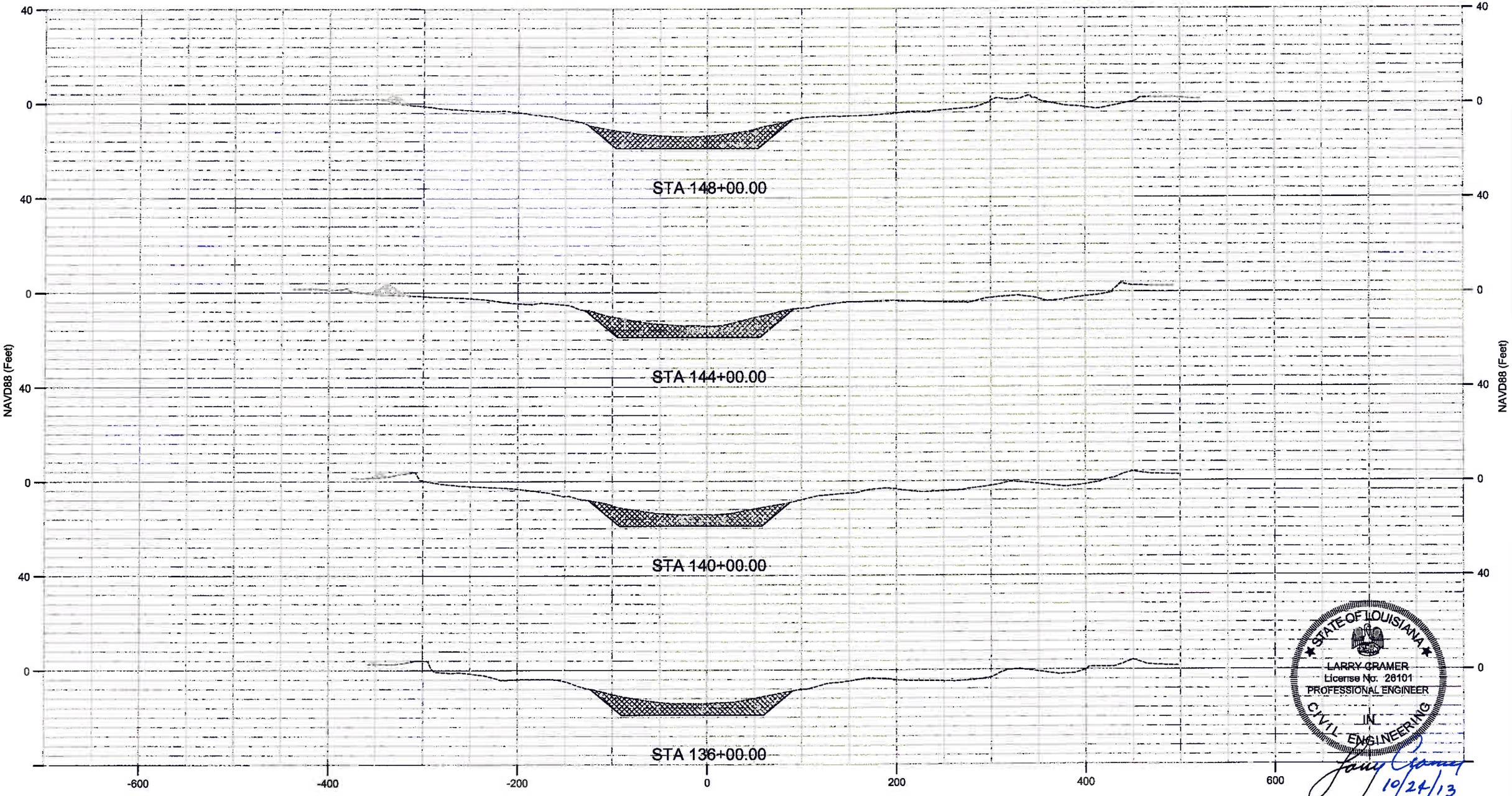
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 21 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:28



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70506 (337) 232-0777

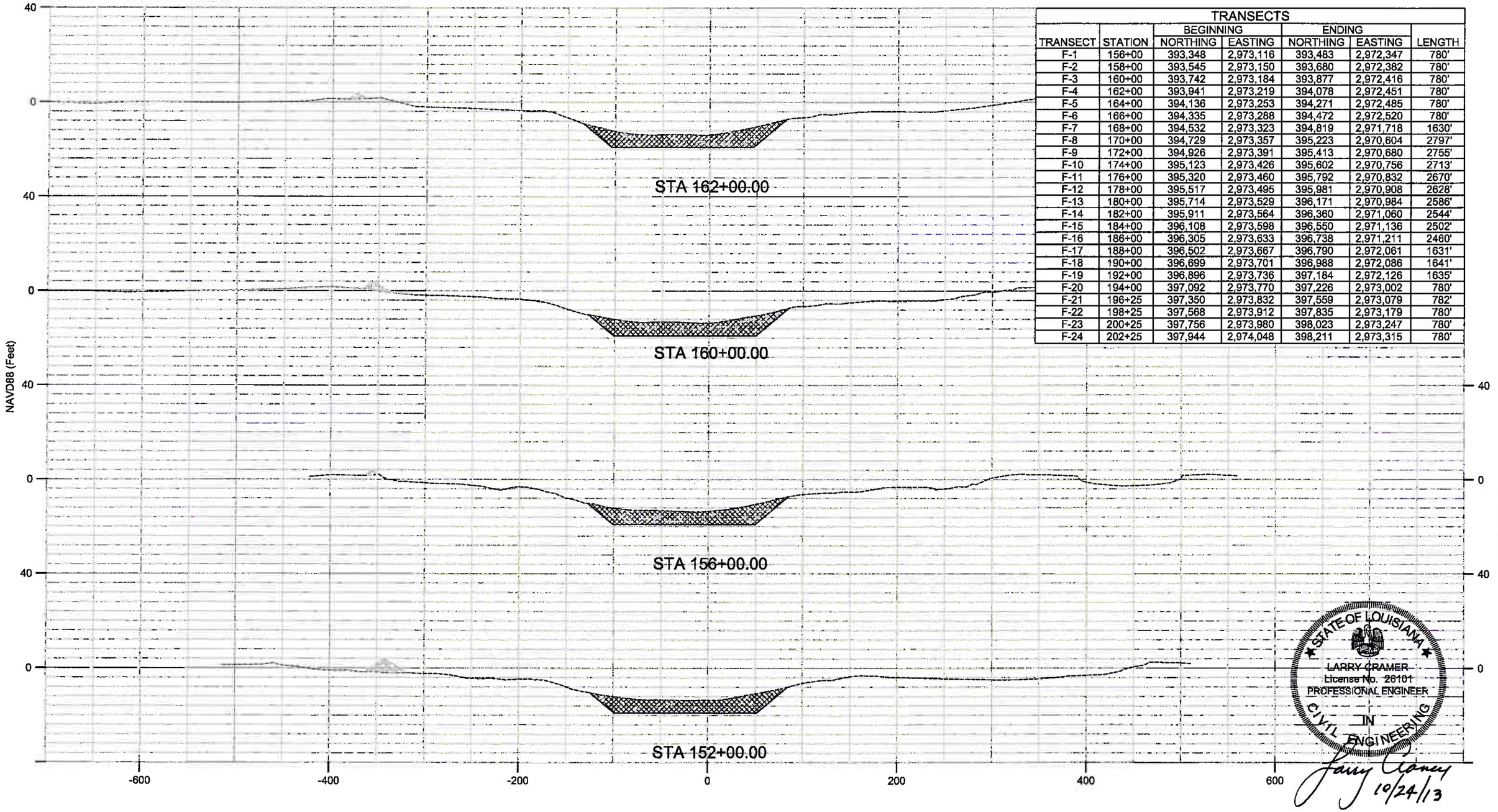
COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU
STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS
DATE: JANUARY 2013
SHEET 22 OF 38

N:\DATA\8242- Abbins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:29



TRANSECTS						
		BEGINNING		ENDING		
TRANSECT	STATION	NORTHING	EASTING	NORTHING	EASTING	LENGTH
F-1	156+00	393,348	2,973,116	393,483	2,972,347	780'
F-2	158+00	393,545	2,973,150	393,680	2,972,382	780'
F-3	160+00	393,742	2,973,184	393,877	2,972,416	780'
F-4	162+00	393,941	2,973,219	394,078	2,972,451	780'
F-5	164+00	394,136	2,973,253	394,271	2,972,485	780'
F-6	166+00	394,335	2,973,288	394,472	2,972,520	780'
F-7	168+00	394,532	2,973,323	394,819	2,971,718	1630'
F-8	170+00	394,729	2,973,357	395,223	2,970,604	2797'
F-9	172+00	394,926	2,973,391	395,413	2,970,680	2755'
F-10	174+00	395,123	2,973,426	395,602	2,970,756	2713'
F-11	176+00	395,320	2,973,460	395,792	2,970,832	2670'
F-12	178+00	395,517	2,973,495	395,981	2,970,908	2628'
F-13	180+00	395,714	2,973,529	396,171	2,970,984	2586'
F-14	182+00	395,911	2,973,564	396,360	2,971,060	2544'
F-15	184+00	396,108	2,973,598	396,550	2,971,136	2502'
F-16	186+00	396,305	2,973,633	396,738	2,971,211	2460'
F-17	188+00	396,502	2,973,667	396,790	2,972,061	1631'
F-18	190+00	396,699	2,973,701	396,988	2,972,086	1641'
F-19	192+00	396,896	2,973,736	397,184	2,972,126	1635'
F-20	194+00	397,092	2,973,770	397,226	2,973,002	780'
F-21	196+25	397,350	2,973,832	397,559	2,973,079	782'
F-22	198+25	397,568	2,973,912	397,835	2,973,179	780'
F-23	200+25	397,756	2,973,980	398,023	2,973,247	780'
F-24	202+25	397,944	2,974,048	398,211	2,973,315	780'

STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Larry Cramer 10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rees Street, Lafayette, La 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

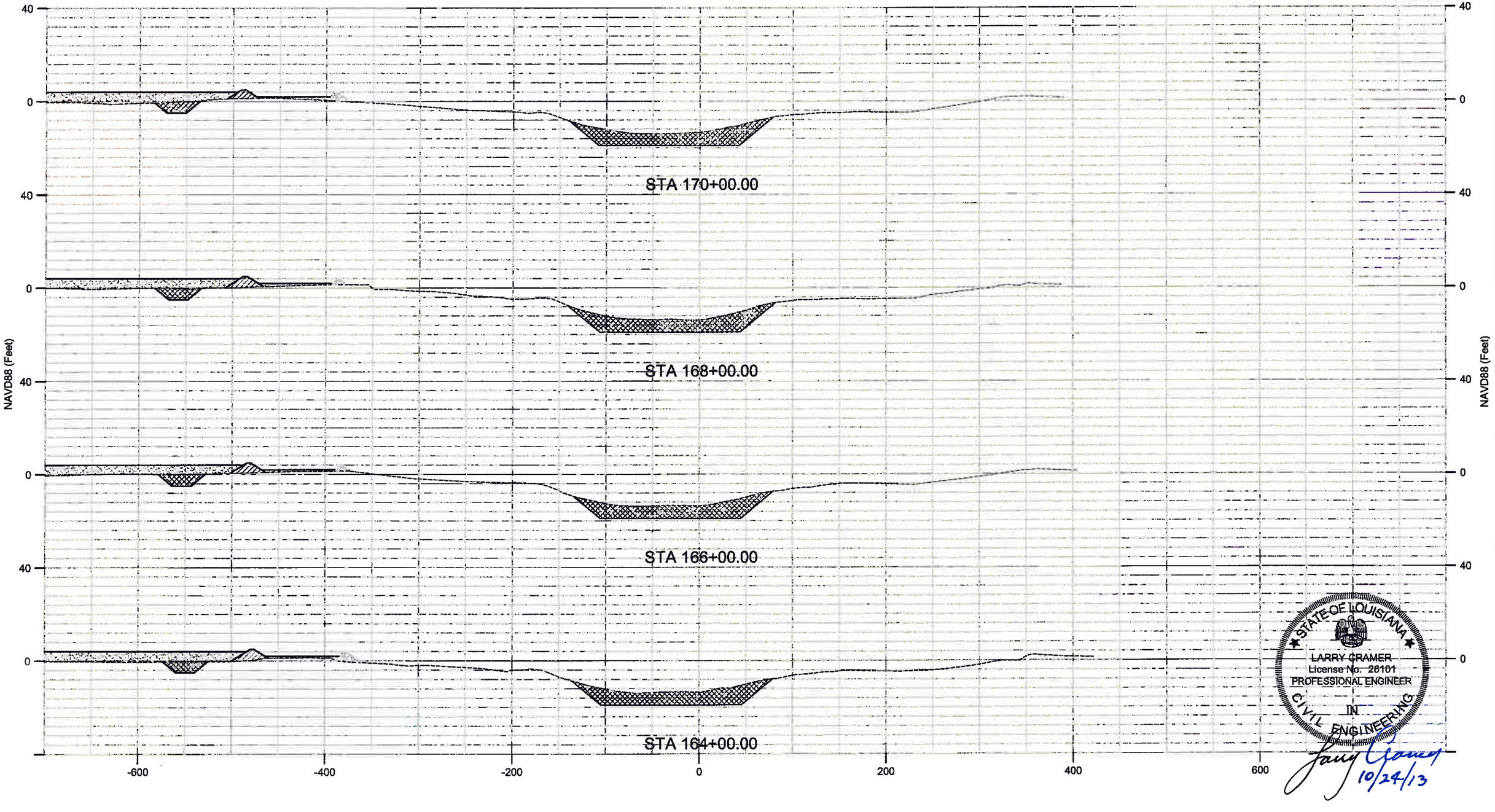
FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER | APPROVED BY: T. VINCENT

SHEET 23 OF 38

N:\DATA\8242-- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:29



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 233-9777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

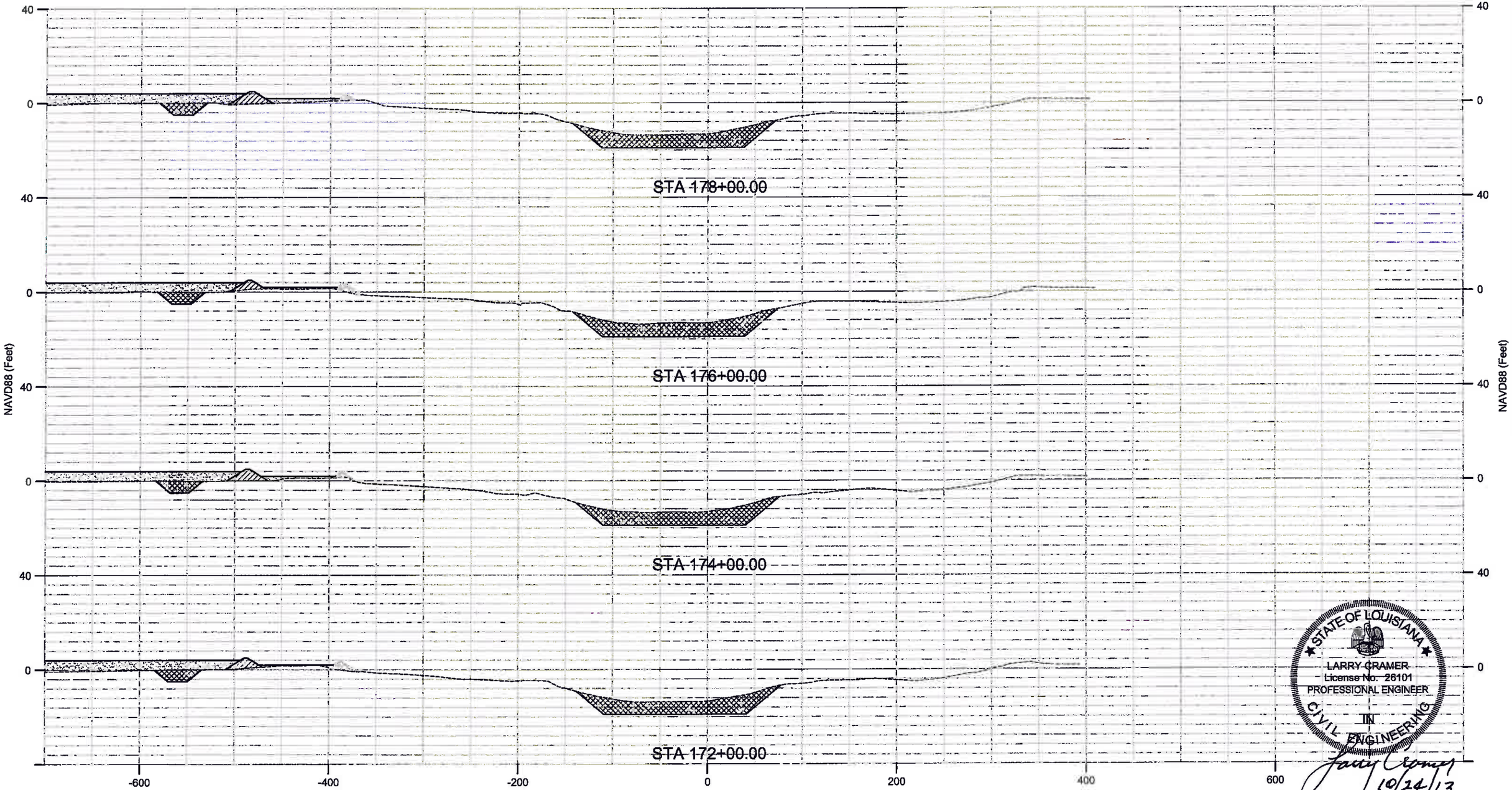
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 24 OF 38

N:\DATA\8242-- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:29



STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rue Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

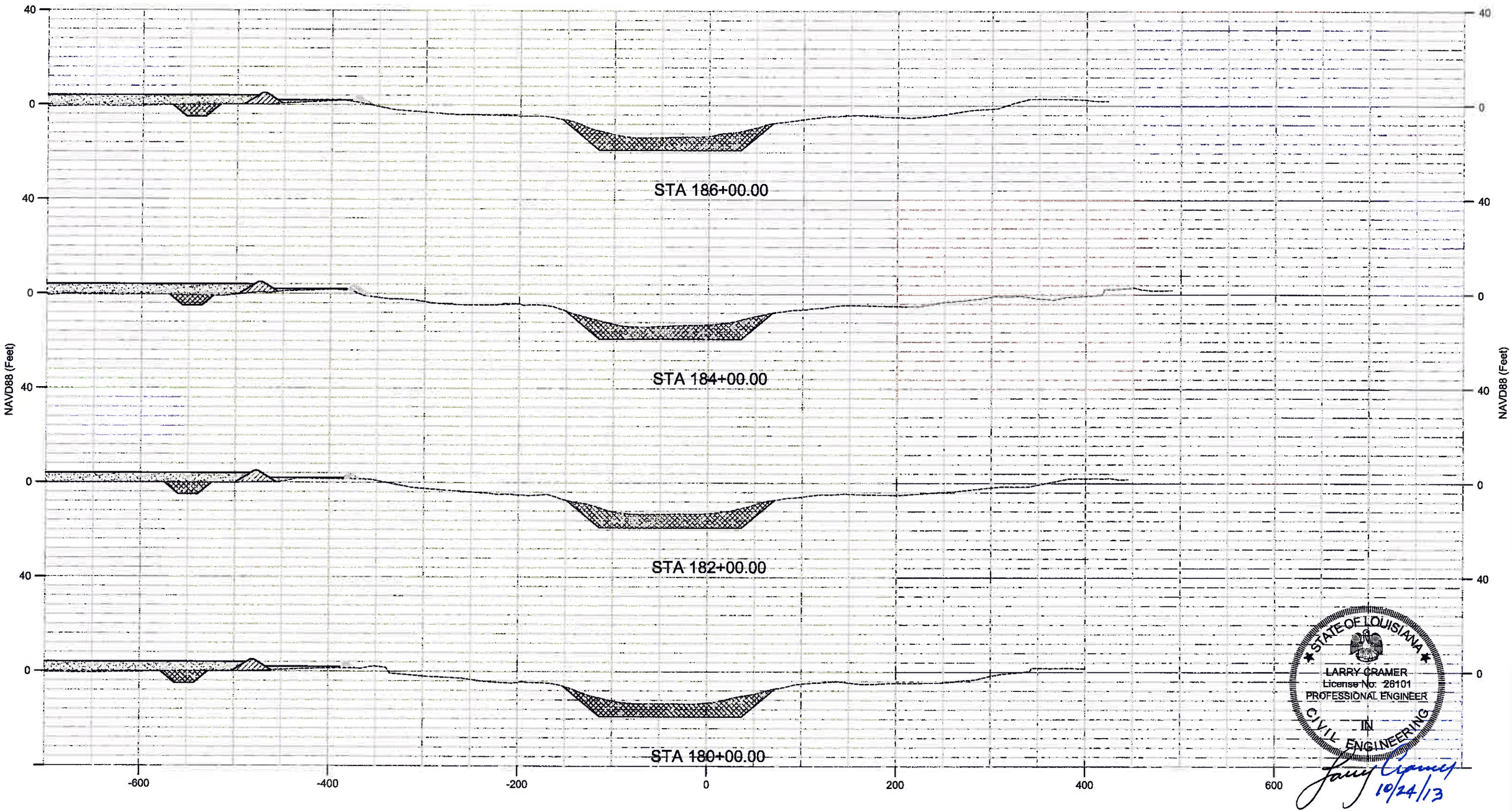
DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

APPROVED BY: T. VINCENT

SHEET 25 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:29



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70508 (337) 232-2777

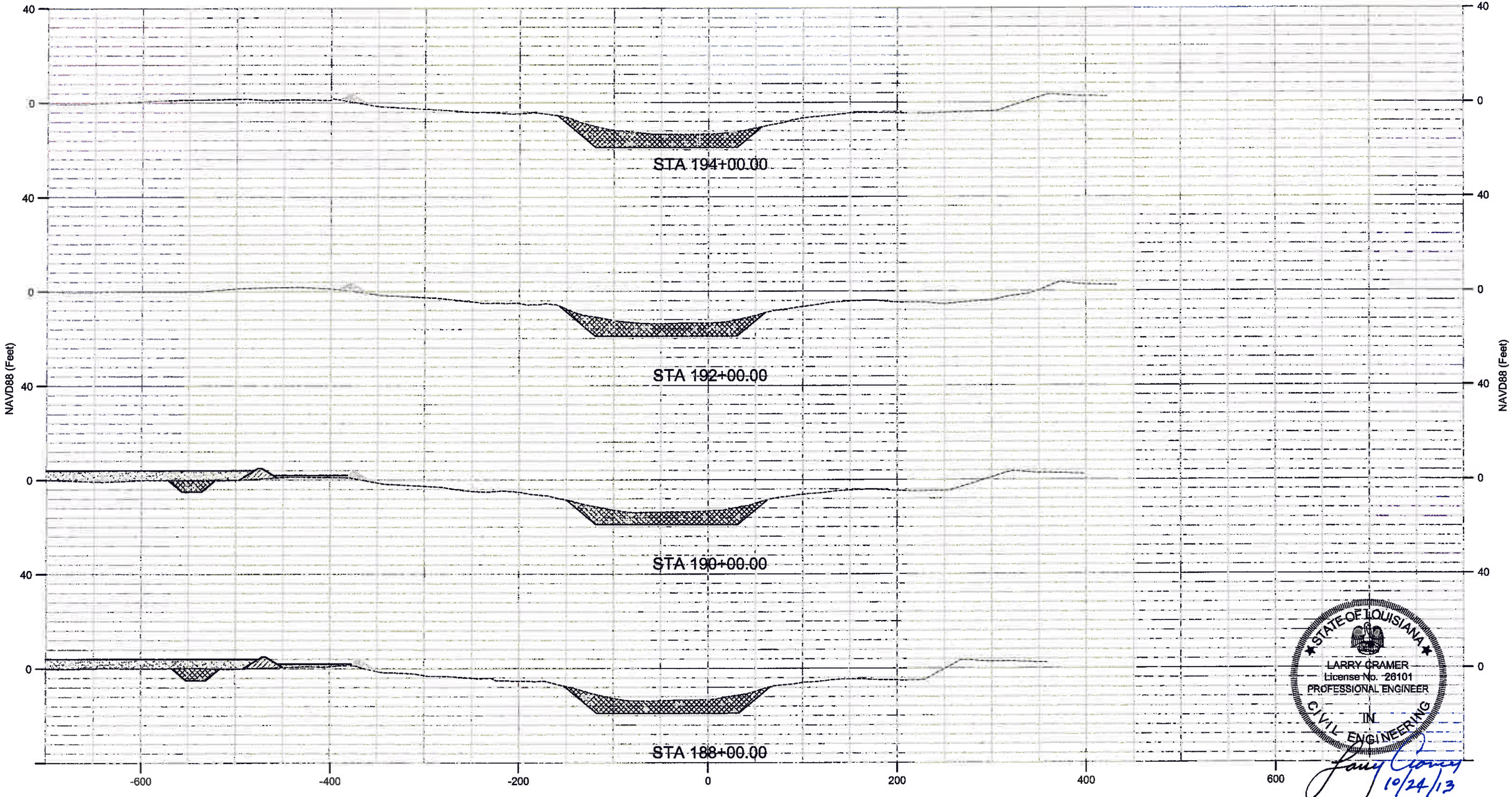
COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU
STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS
DATE: JANUARY 2013
SHEET 26 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:29



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

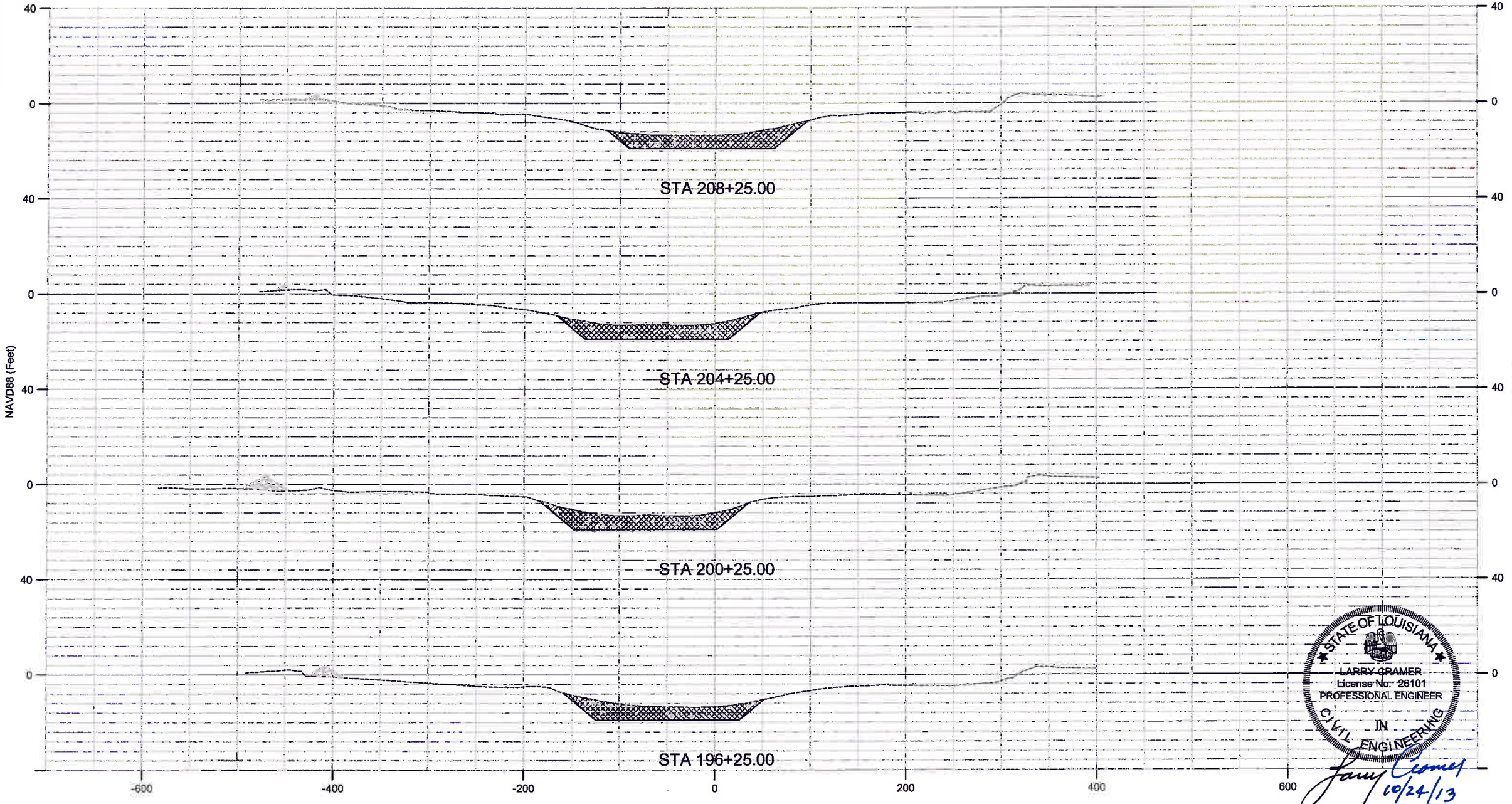
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 27 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:30



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 852-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

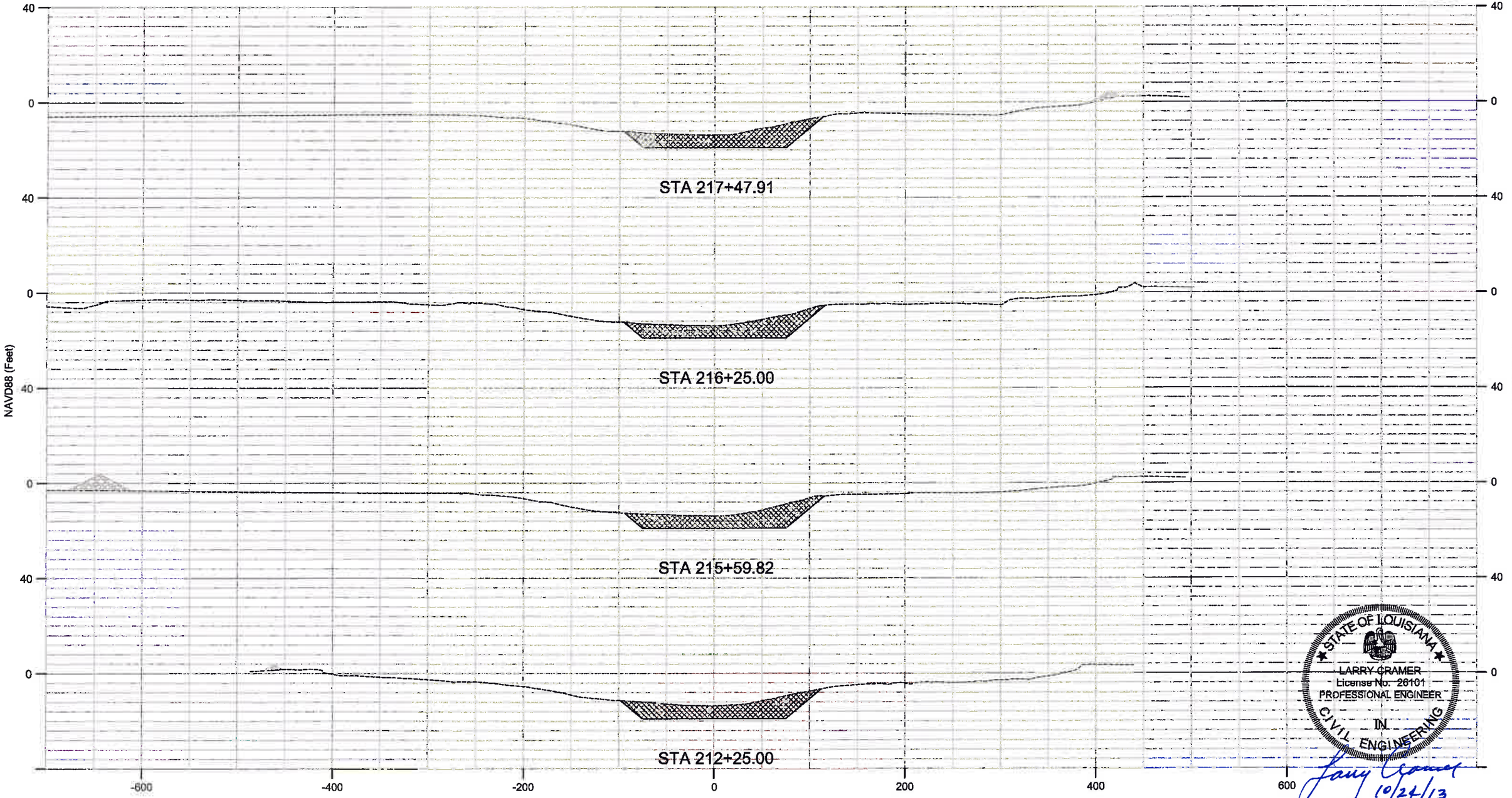
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 28 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:30



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Bray Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

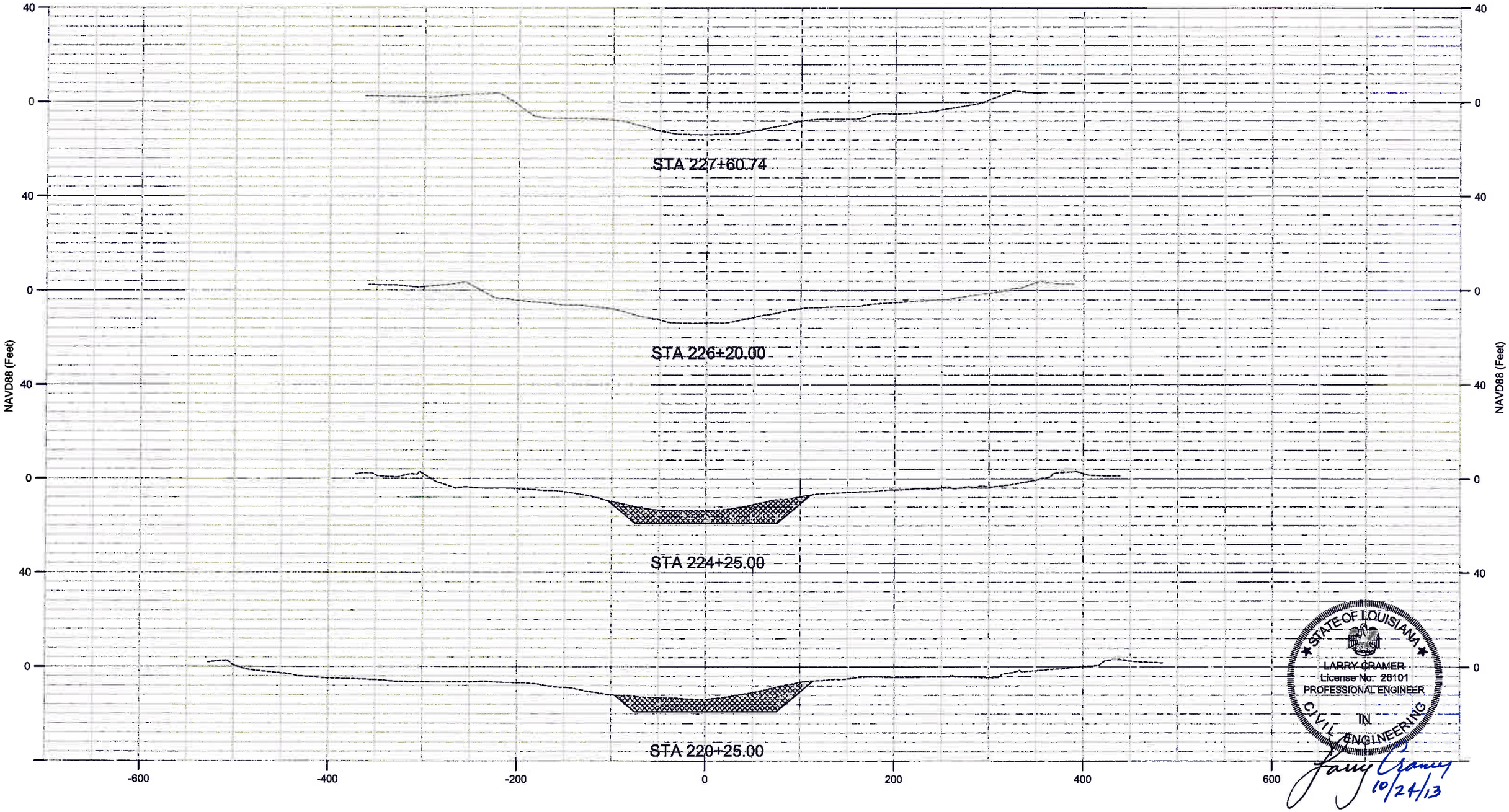
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 29 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:30



HORIZONTAL SCALE

100' 50' 0 100' 200'

40' 20' 0 40' 80'

VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

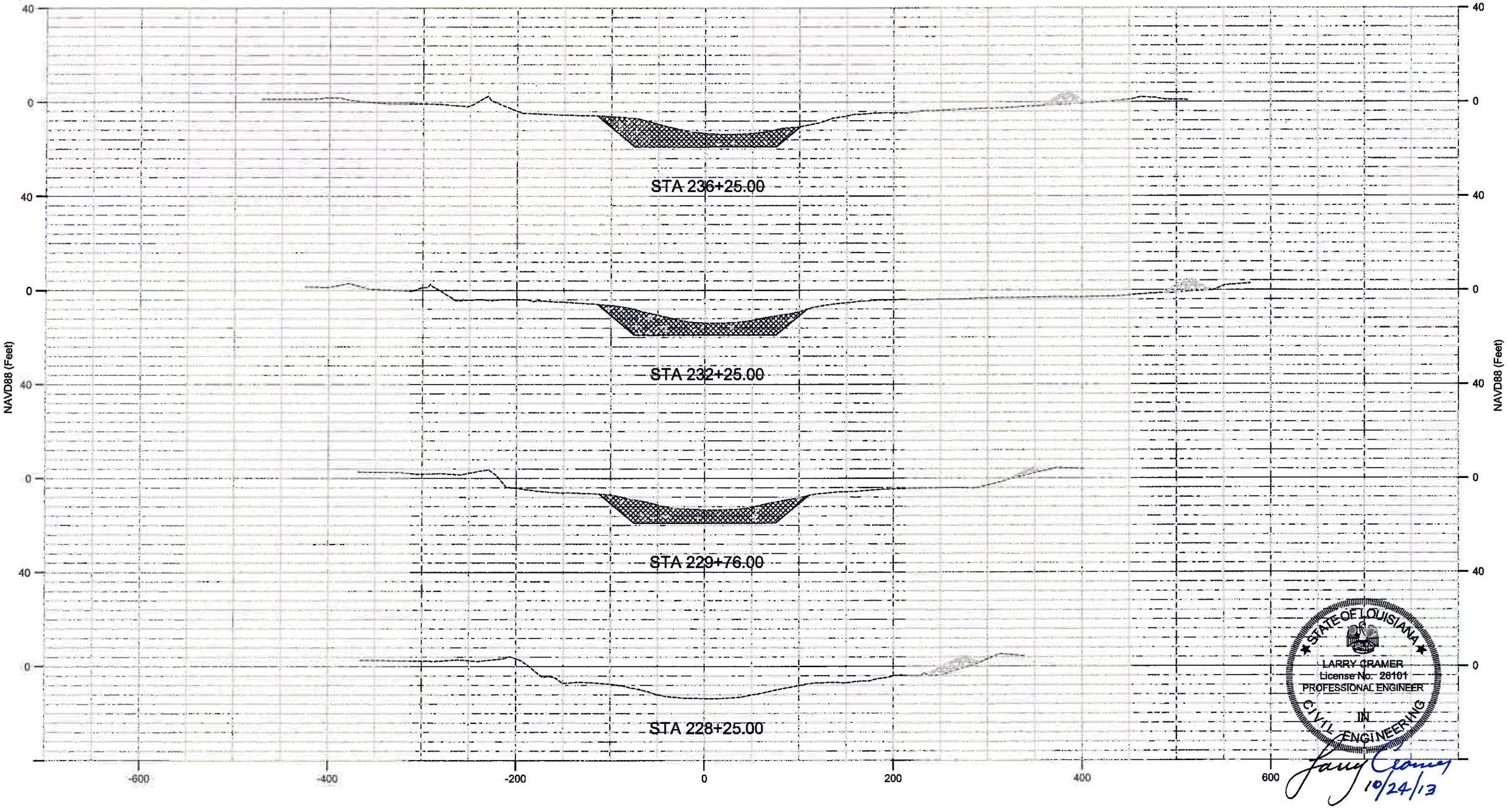
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013

SHEET 30 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:30



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

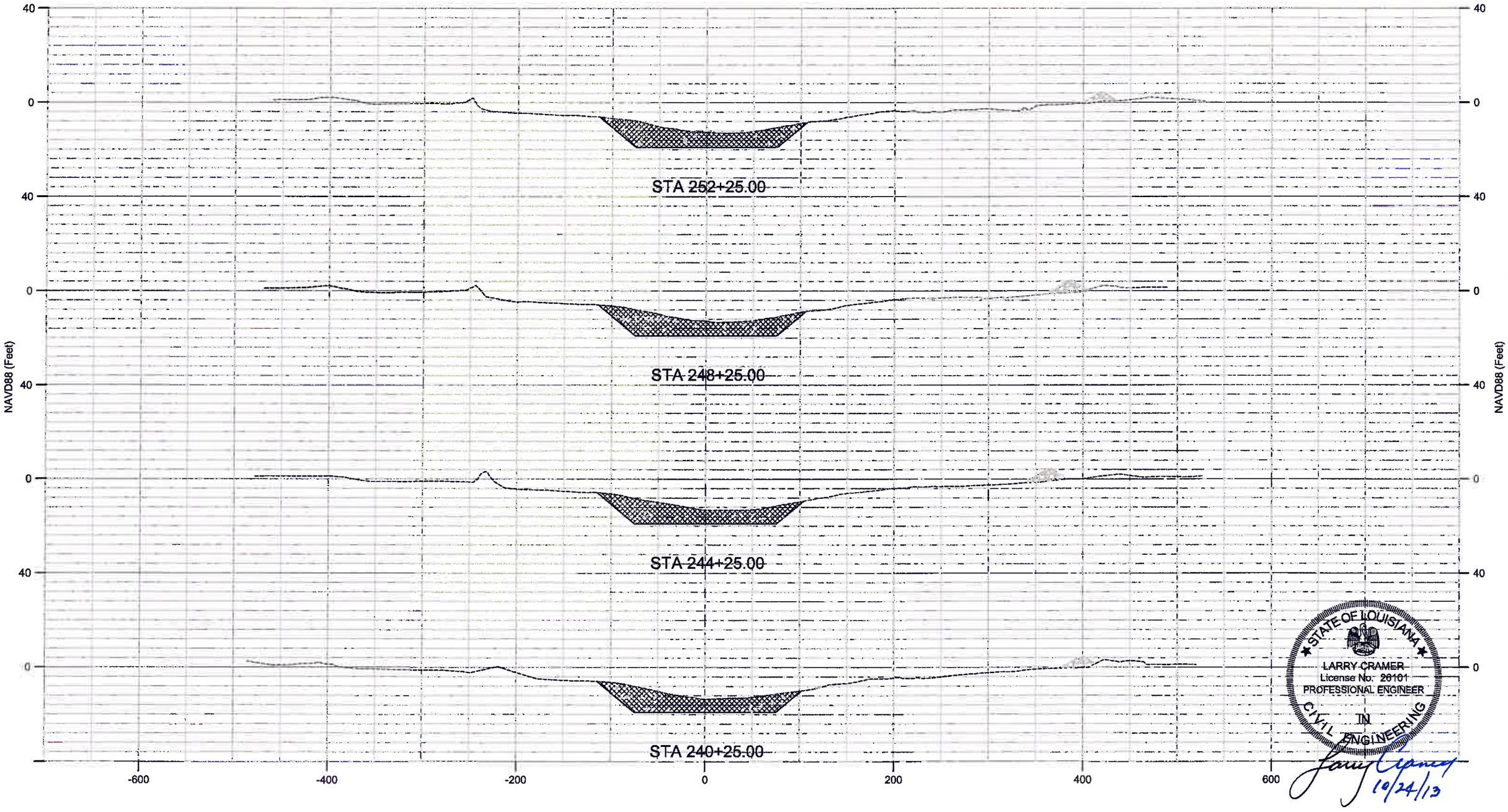
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 31 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:30



STATE OF LOUISIANA
LARRY CRAMER
License No. 28101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Rosy Street, Lafayette, LA 70508 (337) 988-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

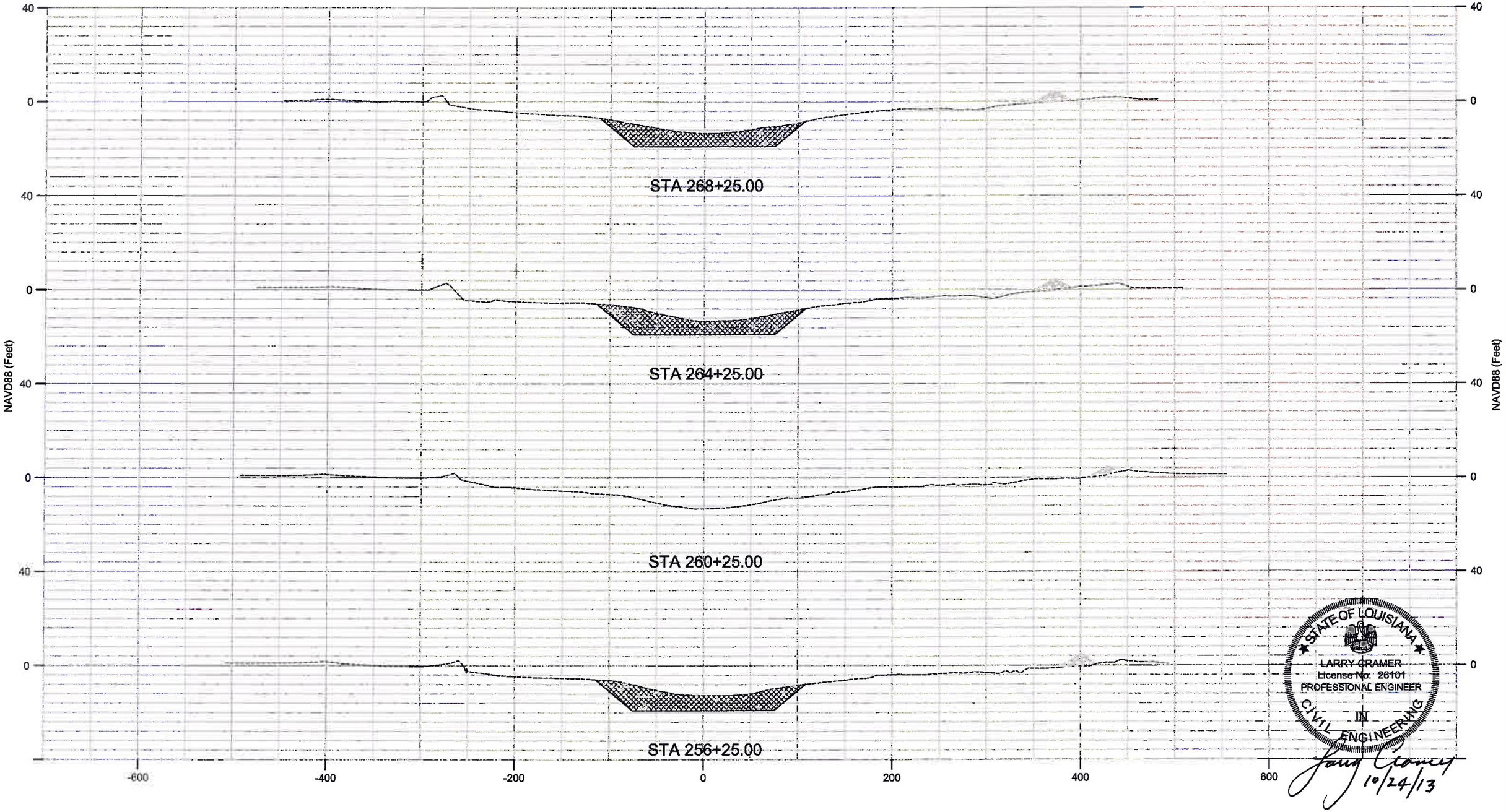
DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER

APPROVED BY: T. VINCENT

SHEET 32 OF 38

N:\DATA\8242- Atchafalaya CCPR IDIQ\8242-03 FWO Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:30



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 238-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

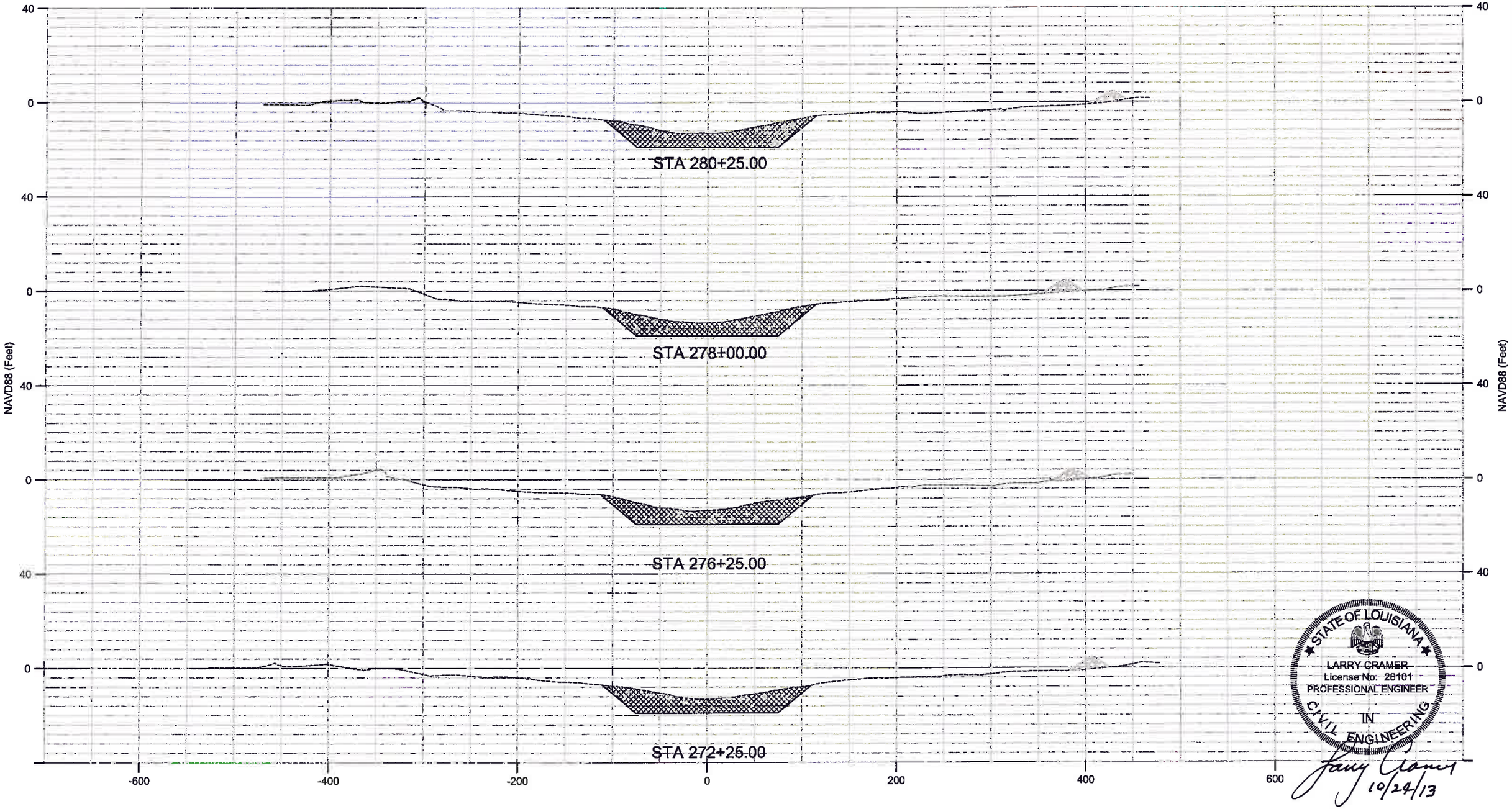
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 33 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:31



STATE OF LOUISIANA
LARRY CRAMER
License No. 28101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
VERTICAL SCALE
40' 20' 0 40' 80'

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Mary Street, Lafayette, LA 70506 (337) 233-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

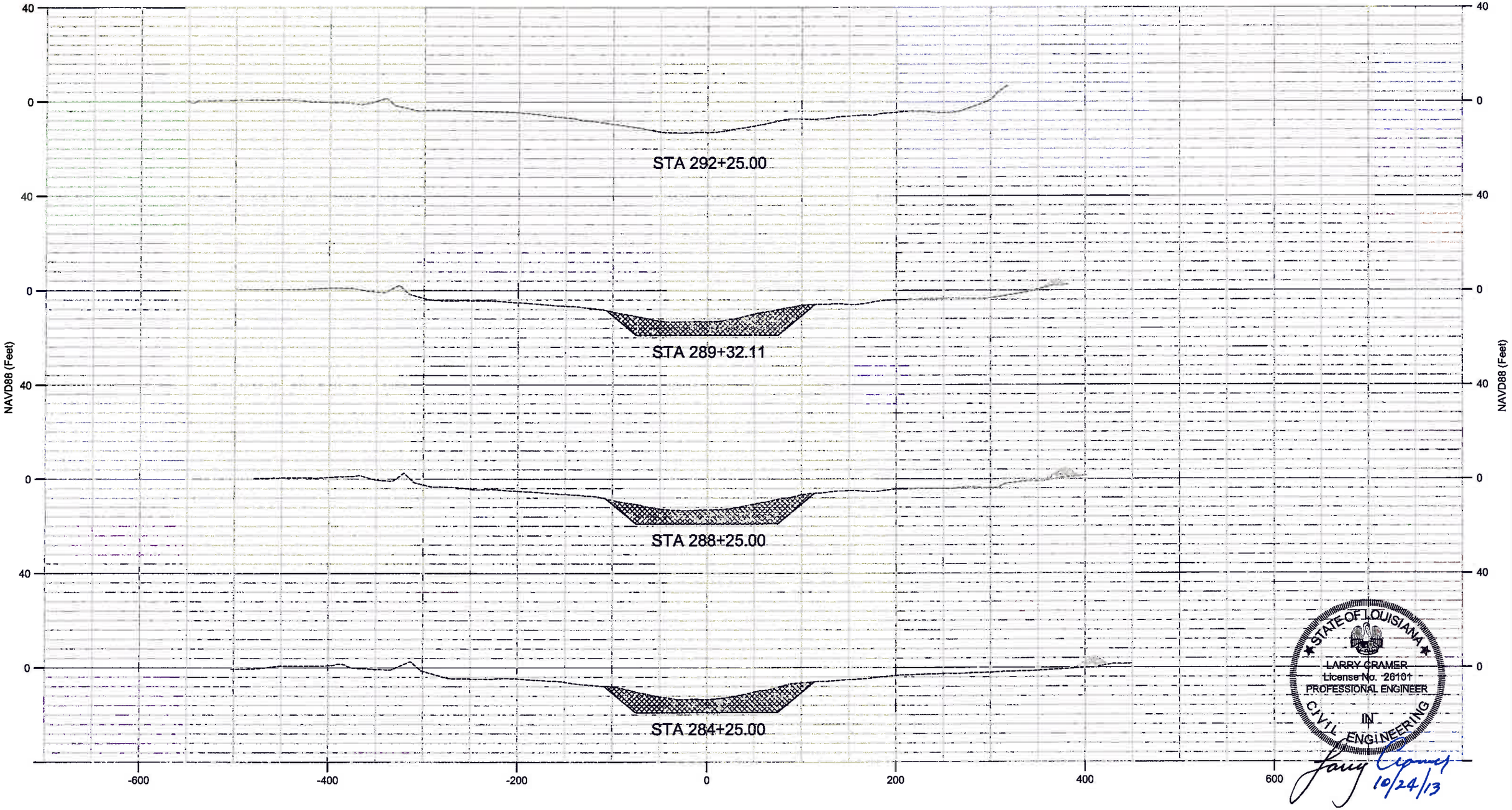
FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

DRAWN BY: L. CRAMER | DESIGNED BY: L. CRAMER | APPROVED BY: T. VINCENT

SHEET 34 OF 38

N:\DATA\6242- Atchafalaya CCPR IDIQ\6242-03 FWB Marsh Creation\100% Plans\6242-03 18-38 Xsections.dwg Oct 24,2013 14:31



HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 213-6777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

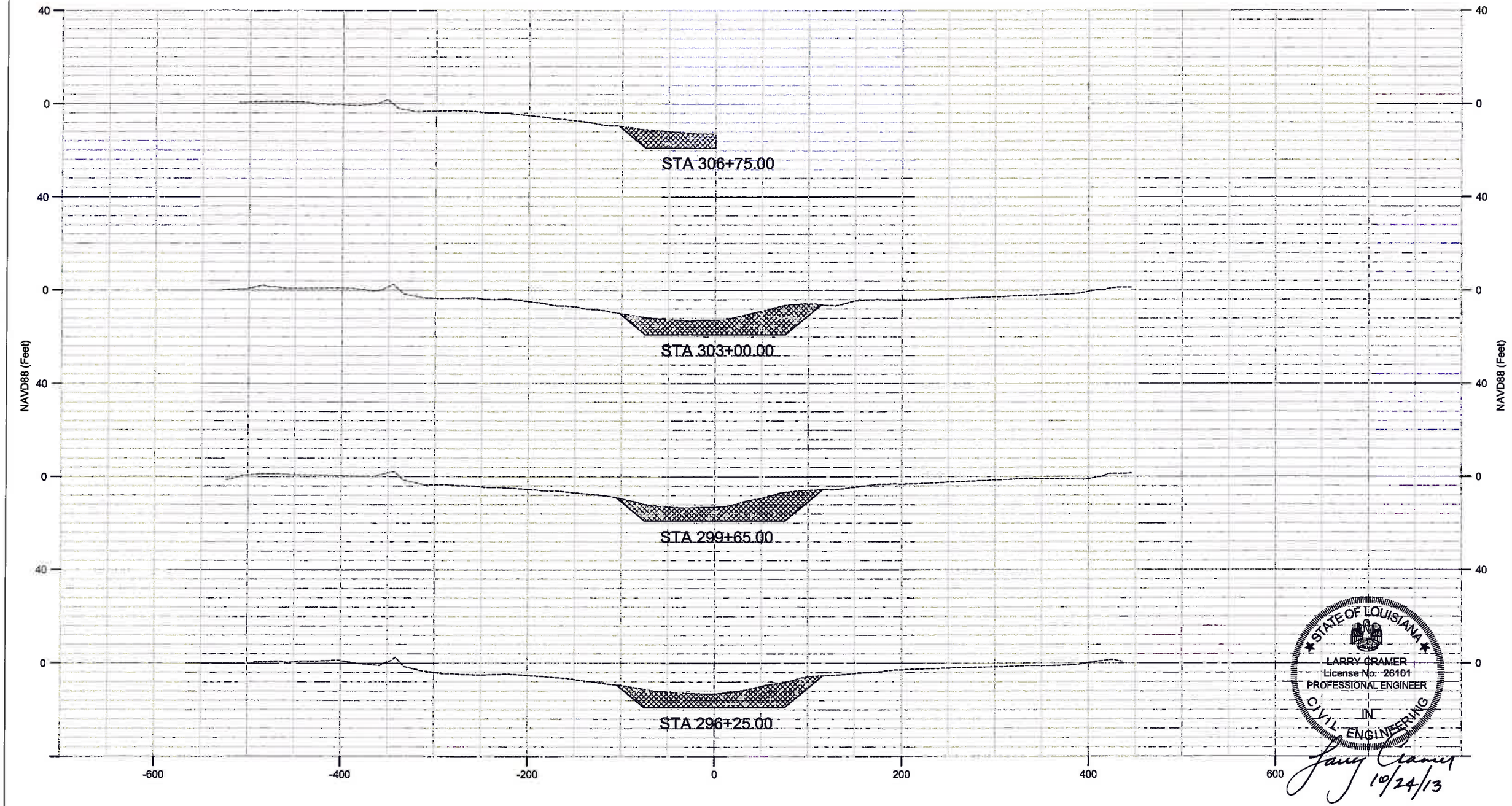
SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 35 OF 38

N:\DATA\8242- Atkins OCPR IDIQ\8242-03 FWB Marsh Creation\100% Plans\8242-03 18-38 Xsections.dwg Oct 24,2013 14:31



STATE OF LOUISIANA
LARRY CRAMER
License No. 26101
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Larry Cramer
10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Easy Street, Lafayette, LA 70506 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
FEDERAL PROJECT NUMBER: ME-25SF
APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 36 OF 38

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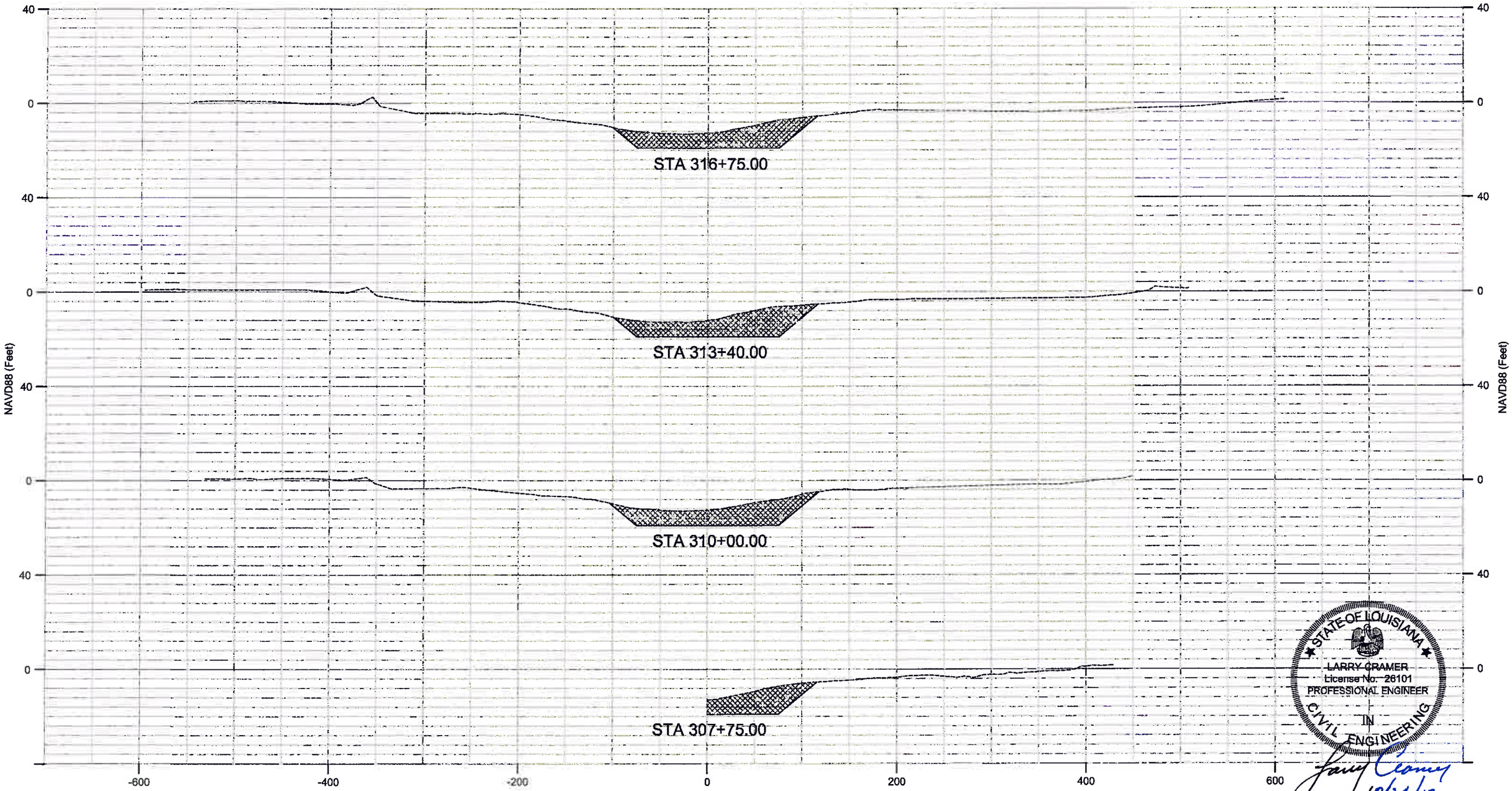

STATE OF LOUISIANA
LARRY CRAMER
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PROFESSIONAL ENGINEER
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CIVIL ENGINEERING
10/24/13

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
145-B Ray Street, Lafayette, LA 70506 (337) 523-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

SURPLUS MARSH CREATION
NEAR FRESHWATER BAYOU

CROSS SECTIONS

STATE PROJECT NUMBER: ME-25SF

FEDERAL PROJECT NUMBER: ME-25SF

DATE: JANUARY 2013

DRAWN BY: L. CRAMER

DESIGNED BY: L. CRAMER

APPROVED BY: T. VINCENT

SHEET 37 OF 38

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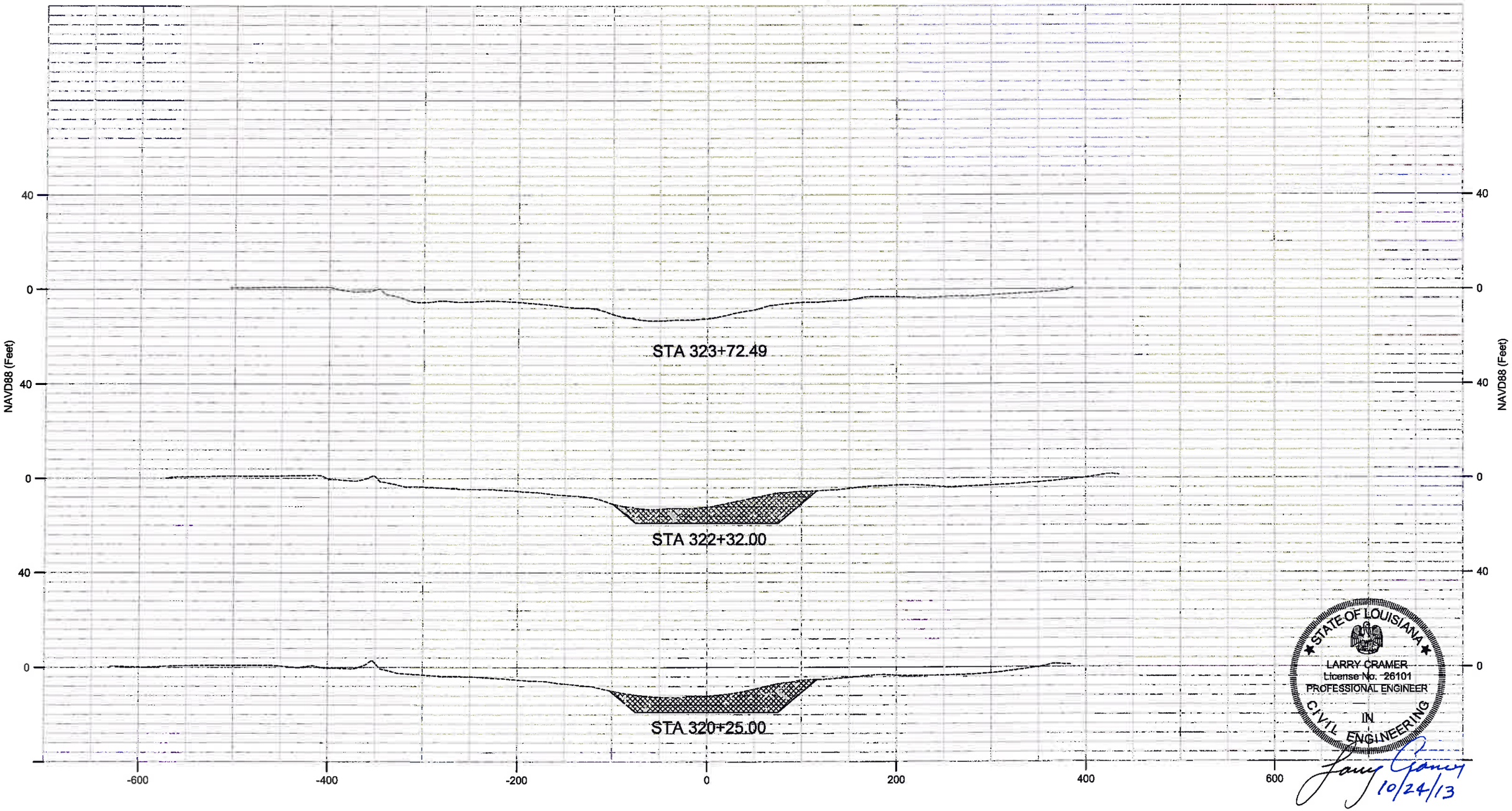

HORIZONTAL SCALE
100' 50' 0 100' 200'
40' 20' 0 40' 80'
VERTICAL SCALE

REV.	DATE	DESCRIPTION	BY

Sellers & Associates, Inc.
ENGINEERS SURVEYORS
148-B Easy Street, Lafayette, LA 70508 (337) 232-0777

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: L. CRAMER
DESIGNED BY: L. CRAMER

SURPLUS MARSH CREATION NEAR FRESHWATER BAYOU

STATE PROJECT NUMBER: ME-25SF
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APPROVED BY: T. VINCENT

CROSS SECTIONS

DATE: JANUARY 2013
SHEET 38 OF 38

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