FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH	SHEET NO.
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE	1

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINES FISHERIES SERVICE
AND THE
STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

PLANS OF PROPOSED

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS

CENTRAL AREA, EAST TIMBALIER ISLAND

STATE PROJECT NO. TE-25
FEDERAL PROJECT NO. XTE-67

EAST END, EAST TIMBALIER ISLAND

STATE PROJECT NO. TE-30
FEDERAL PROJECT NO. XTE-45/67B

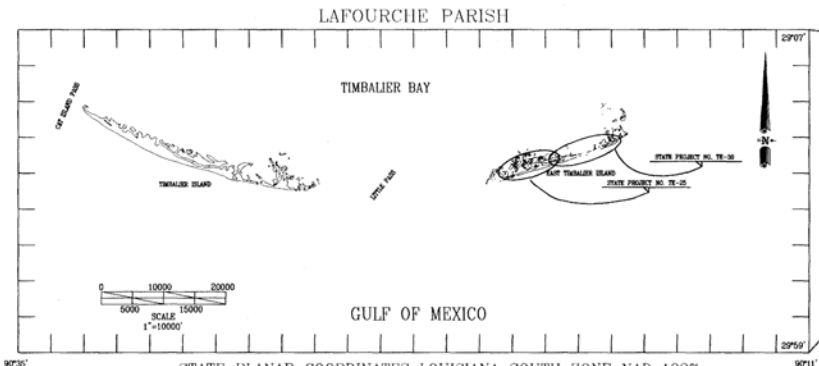
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	SUMMARY ESTIMATED QUANTITIES, CIVIL LEGEND, GENERAL NOTES
3,4	EAST TIMBALIER ISLAND TOPOGRAPHIC AERIAL MAPS 1"=500'
5	TYPICAL SECTIONS
6-9	EAST TIMBALIER PROJECT LAYOUT AERIALS 1"=200'
10-13	SAND SOURCE BORROW AREA MAPS WITH BATHYMETRY, EAST TIMBALIER ISLAND
14	OVERFLOW WEIR BOX DETAILS
15-24	EAST TIMBALIER ISLAND CROSS-SECTIONS

DATUM USED: N.G.V.D.
MAG.VAR.: N/A
BEARINGS ARE TRUE
TRANSIT BOOK(S): TBS FIELD BOOK #2445
DATE: 1/98
SCALES:
PLANS: 1"=500' & 1"=200'
PROFILES: HOR. 1"=100'
VERT. 1"=10'

TYPE OF CONSTRUCTION

HYDRAULIC DREDGING
CONTAINMENT LEVEES/STRUCTURES
DUNE & MARSH PLATFORM SHAPING
RUBBLE MOUND REVETMENT



STATE PLANAR COORDINATES LOUISIANA SOUTH ZONE NAD 1927

VICINITY MAP

RECOMMENDED FOR APPROVAL

D.N.R./C.R.D ENGINEER MANAGER — DATE

RECOMMENDED FOR APPROVAL

D.N.R./C.R.D. PROJECT MANAGER — DATE

PREPARED BY
T. BAKER SMITH & SON, INC.
MARC J. ROGERS, SR., P.E. — DATE 2/23/98

PICCIOLA AND ASSOCIATES, INC.
MARCO J. PICCIOLA, II, P.E., L.S. — DATE 2/26/98

STATE PROJECT SPONSOR

FEDERAL PROJECT SPONSOR

571-96: ET-TITLE.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

SUMMARY OF ESTIMATED QUANTITIES

EAST TIMBALIER ISLAND
(NET SECTION BORROW)

CIVIL LEGEND

- —3— EXISTING CONTOUR LINE
- MARSH PLATFORM
- DUNE
- T.B.M., P.O.T., OR PI ON SURVEY TRAVERSE OR BASELINE SET BY ENGINEER, 3/4 INCH G.I.P.
- (1) POINTS WITH LISTED COORDINATES
- —// — NATURAL GAS OR OIL PIPELINE
- EXISTING WELL
- BORROW AREA BOUNDARY
- —60— PERCENTAGE (60%) SAND CONTOUR LINE
- REVETMENT
- DENOTED CROSS-SECTION LOCATIONS
- 0 – 5' SAND SOURCE
- 5' – 10' SAND SOURCE
- 10' – 15' SAND SOURCE
- OVERFLOW WEIR BOX
- MITIGATION PROJECT

ITEM No.	DESCRIPTION	UNIT	PROPOSAL A QUANTITY	PROPOSAL B QUANTITY	PROPOSAL C QUANTITY
1	MOBILIZATION	LUMP	LUMP	LUMP	LUMP
2	HYDRAULIC FILL	CU. YDS.	2,143,000	2,265,000	2,265,000
3	CONTAINMENT DIKES	LN. FT.	32,800	32,800	32,800
4	RUBBLE MOUND REVETMENT	LN. FT.	6,300	6,300	7,500
5	GRADING AND SHAPING	STA.	146	146	146

GENERAL NOTES

1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE DREDGE PLAN AREA. THE ENGINEERS PROJECT REPRESENTATIVE AND REPRESENTATIVES FROM DNR & NMFS SHALL MONITOR THE LOCATION DURING CONSTRUCTION.

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. THE CONTRACTOR SHALL MARK AND MAINTAIN BUOYS DURING CONSTRUCTION AND SHALL HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. THE CONTRACTOR SHALL USE DOTTIE TO DETERMINE WHETHER THERE ARE OTHERS. CONTRACTOR SHALL NOT DREDGE WITHIN 400' OF A PIPELINE IN THE BORROW AREAS. CONTRACTOR SHALL NOT EXCAVATE WITHIN 100' OF A PIPELINE ON OR NEAR THE ISLAND.

OPERATOR	SIZE	PHONE	CONTACT PERSON	ADDRESS
TENNESSEE GAS PIPELINE	20"	(504)868-6785	PAUL CRAFT	1115 REGAL ROW HOUMA, LA 70360
TENNESSEE GAS PIPELINE	10"	(504)868-6785	PAUL CRAFT	1115 REGAL ROW HOUMA, LA 70360
KOCH GATEWAY PIPELINE	12"	(504)396-3293	A. J. VOISSEMENT	P.O. BOX 4095 HOUMA, LA 70361
CHEVRON	12"	(504)592-6845	LARRY SIEBERT	165 CHEVRON ROAD GOLDEN MEADOW, LA. 70357
CHEVRON	10"	(504)396-3293	LARRY SIEBERT	165 CHEVRON ROAD GOLDEN MEADOW, LA. 70357
CHEVRON	6"	(504)396-3293	LARRY SIEBERT	165 CHEVRON ROAD GOLDEN MEADOW, LA. 70357
PIONEER NATURAL RESOURCES	2-6"	(713)589-8484	DAVID TILLEY, P.E.	11490 WESTHEIMER, SUITE 300 HOUSTON, TX 77077
PIONEER NATURAL RESOURCES	3"	(713)589-8484	DAVID TILLEY, P.E.	11490 WESTHEIMER, SUITE 300 HOUSTON, TX 77077
UNOCAL	3-2 1/2"	(318)295-6000	BILL HERING	P.O. BOX 39200 LAFAYETTE, LA 70593
UNOCAL	2"	(318)295-6000	BILL HERING	P.O. BOX 39200 LAFAYETTE, LA 70593
UNOCAL	3-4"	(318)295-6000	BILL HERING	P.O. BOX 39200 LAFAYETTE, LA 70593

3) EXISTING WELLS IN, OR IN THE VICINITY OF, THE PROJECT AREA: STATE LEASE 1772 WELL NO. 72 AND STATE LEASE PP 192 WELL NOS. 160, 48, 49, 4. PIONEER NATURAL RESOURCES, INC. SHALL INSTALL WELL GUARD AND CAISSONS AROUND EXISITING WELLS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBSERVE THE WELL GUARDS AND CAISSONS DURING CONSTRUCTION. ANY DAMAGE TO THE WELLS, GUARDS, OR THE CAISSIONS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

4) DNR HAS REVIEWED THE EAST TIMBALIER AREA FOR OYSTER LEASES AND THERE APPEAR TO BE NO OYSTER LEASES NEARBY. DNR HAS ALSO RECOMMENDED TO THE LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES THAT NO APPLICATIONS IN THE AREA BE ISSUED.

5) SAND SOURCE INFORMATION TAKEN BY GORE ENGINEERING, INC.

6) VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN MAY 1997. BEFORE AND AFTER DREDGING, CROSS-SECTIONS WILL BE SURVEYED BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT PURPOSES. ALL SURVEY WORK PERFORMED BY CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED BY THE ENGINEER. THE ENGINEER SHALL REVIEW ALL BEFORE AND AFTER SURVEY CROSS-SECTIONS AND MEASUREMENTS AND PAYMENT CALCULATIONS. IF A DISCREPANCY CANNOT BE RESOLVED THE ENGINEER SHALL PERFORM A CROSS-SECTION SURVEY TO VERIFY THE CONTRACTORS WORK.

7) RECOMMENDED BORROW AREAS ARE HATCHED ON SHEETS 11 TO 13 OF THE DRAWINGS. LOGS OF THESE SAND CORE SAMPLES ARE AVAILABLE UPON REQUEST. BASED ON INFORMATION GIVEN IN THESE DRAWINGS, THE CONTRACTOR SHALL DEVELOP A DREDGING PLAN TO BE APPROVED BY THE ENGINEER. IN NO CASE, HOWEVER, WILL THE CONTRACTOR DREDGE BELOW 15 FEET BELOW THE EXISTING BOTTOM.

8) ALIGNMENT OF BACK DIKES SHOWN ON THE DRAWINGS IS APPROXIMATE AND SHALL BE LOCATED IN THE FIELD BY THE PROJECT ENGINEER USING CROSS SECTIONS AND/OR THE CURRENT VEGETATIVE LINE.

9) ESTIMATED QUANTITIES WERE CALCULATED USING A 1:1.5 CUT-TO-FILL (LOSS) FACTOR.

10) BACK CONTAINMENT DIKE COORDINATES MAY BE PROVIDED BY THE ENGINEERS.

REVISIONS:

DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — REGISTERED PROFESSIONAL ENGINEER

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: 1 = 1

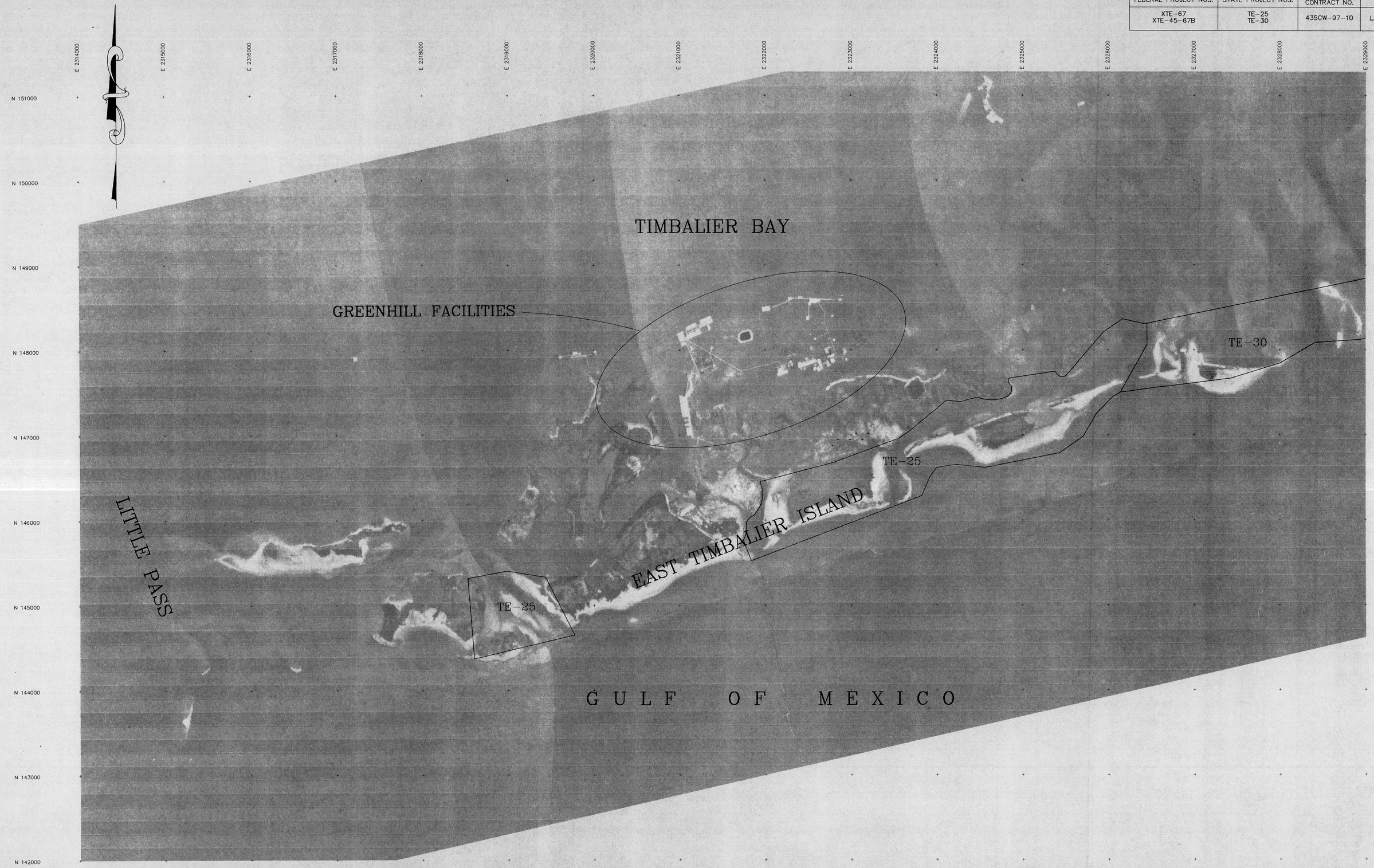
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
SUMMARY OF ESTIMATED QUANTITES

SHEET NO. 2 OF 24

571-96: QUANTITY.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



SCALE IN FEET
500 250 0 500 1000 1500

571-96: ETIMW.DWG

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II — REG. No. 12171 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

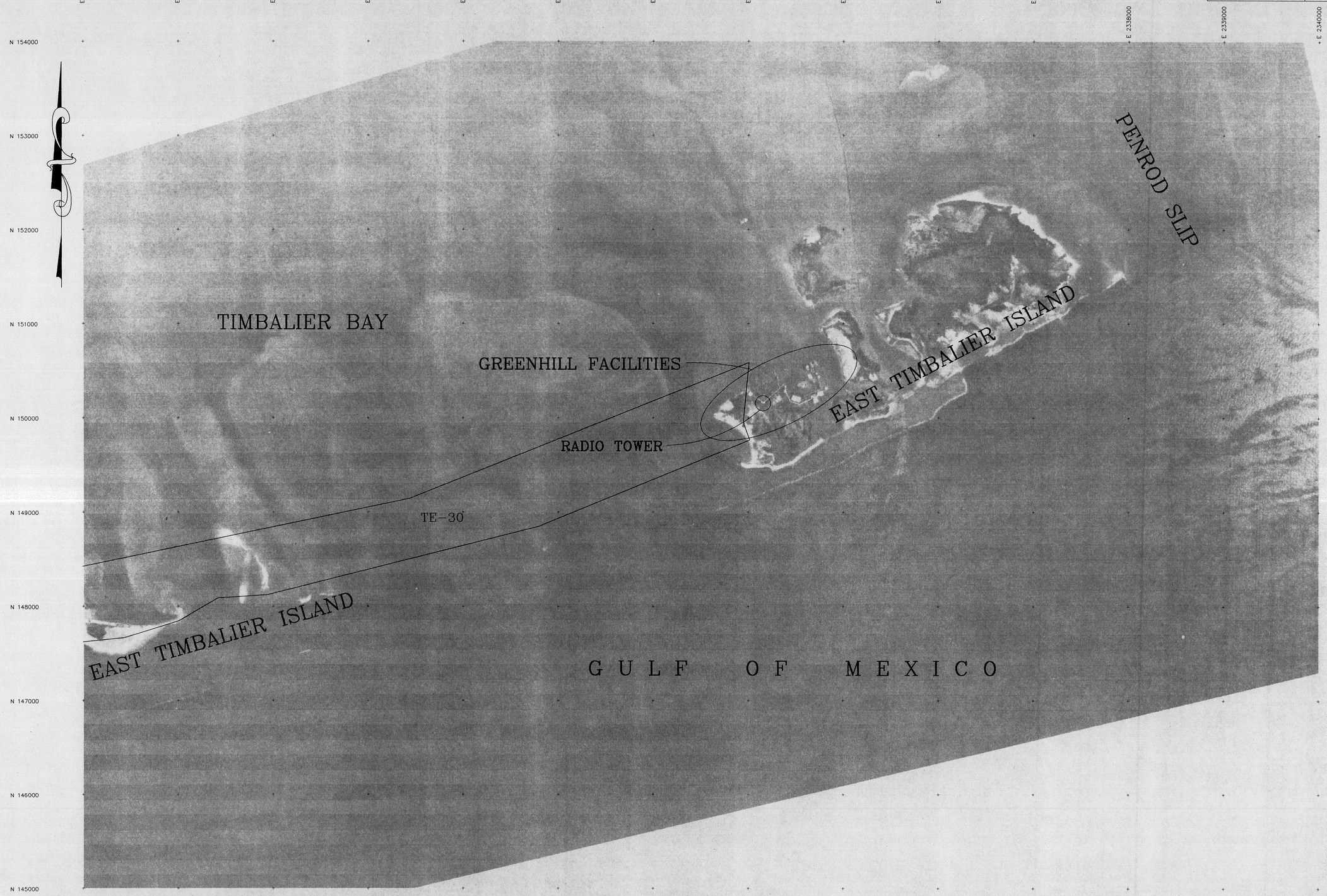
SCALE: 1" = 500'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION POJECTS
EAST TIMBALIER ISLAND TOPOGRAPHIC AERIAL

SHEET NO. 3 OF 24

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



SCALE IN FEET

500 250 0 500 1000 1500

571-96: ETIME.DWG

REVISIONS:

DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II, REG. No. 12171, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

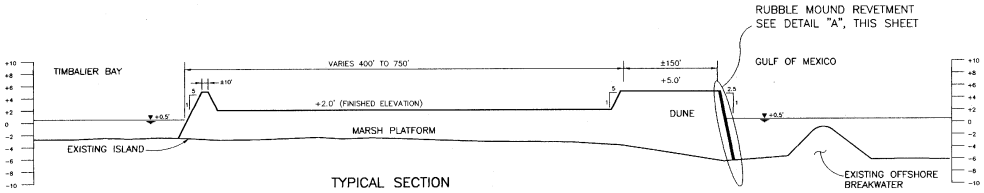
SCALE: 1" = 500'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

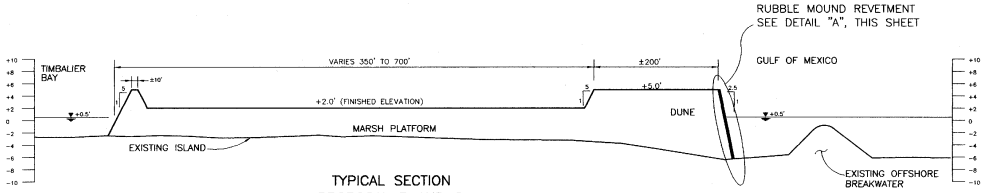
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
EAST TIMBALIER ISLAND TOPOGRAPHIC AERIAL

SHEET NO. 4 OF 24

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



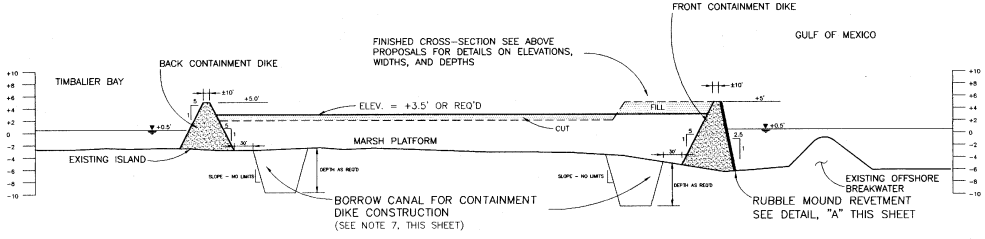
TYPICAL SECTION
PROPOSAL A



TYPICAL SECTION
PROPOSAL B AND C

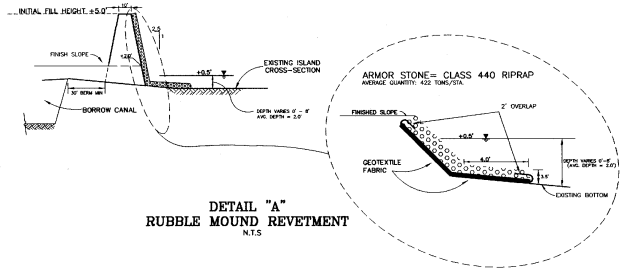
DESIGN CROSS-SECTION TEMPLATES
AFTER GRADING AND SHAPING

SCALE - HORZ.: 1" = 100'
VERT.: 1" = 10'



CONSTRUCTION CROSS-SECTION TEMPLATE

SCALE - HORZ.: 1" = 100'
VERT.: 1" = 10'



DETAIL "A"
RUBBLE MOUND REVETMENT
N.T.S

NOTES:

1. RUBBLE MOUND REVETMENT TO BE CONSTRUCTED FROM STATION 96+91.99 TO STATION 159+11.62 FOR PROPOSAL A AND PROPOSAL B.
2. RUBBLE MOUND REVETMENT TO BE CONSTRUCTED FROM STATION -4+30.76 TO STATION 74+49.04 AND FROM STATION 96+91.99 TO STATION 159+11.62 FOR PROPOSAL C
3. REVETMENT ARMOR STONE: SHALL BE CLASS 440 RIPRAP.
4. GEOTEXTILE FABRIC TO OVERLAP A MINIMUM OF 2 FEET

NOTES:

1. RUBBLE MOUND REVETMENTS MUST BE SATISFACTORILY COMPLETE PRIOR TO COMMENCEMENT OF HYDRAULIC FILL.
2. AT THE CONTRACTOR'S REQUEST, APPROVAL TO BEGIN HYDRAULIC FILL PRIOR TO COMPLETION OF THE RUBBLE MOUND REVETMENT MAY BE MADE BY THE OWNER AT THE CONTRACTOR'S RISK.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE CONTAINMENT DIKES DURING HYDRAULIC FILL.
4. ALL NOTES AND REQUIREMENTS ARE APPLICABLE FOR ALL PROPOSALS.
5. ALL ROCK QUANTITIES BASED ON AVERAGE WATER DEPTH.
6. EXISTING OFFSHORE BREAKWATER SHALL REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
7. NO DEPTH OR SLOPE REQUIRED ON BORROW CANAL, HOWEVER, CANAL MUST BE OFFSET A MINIMUM OF 30' FROM BASE OF CONTAINMENT DIKE.
8. CONTRACTOR MAY FILL CONSTRUCTION TEMPLATE TO GRADE.

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA III, REG. No. 12171, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

SCALE: AS SHOWN

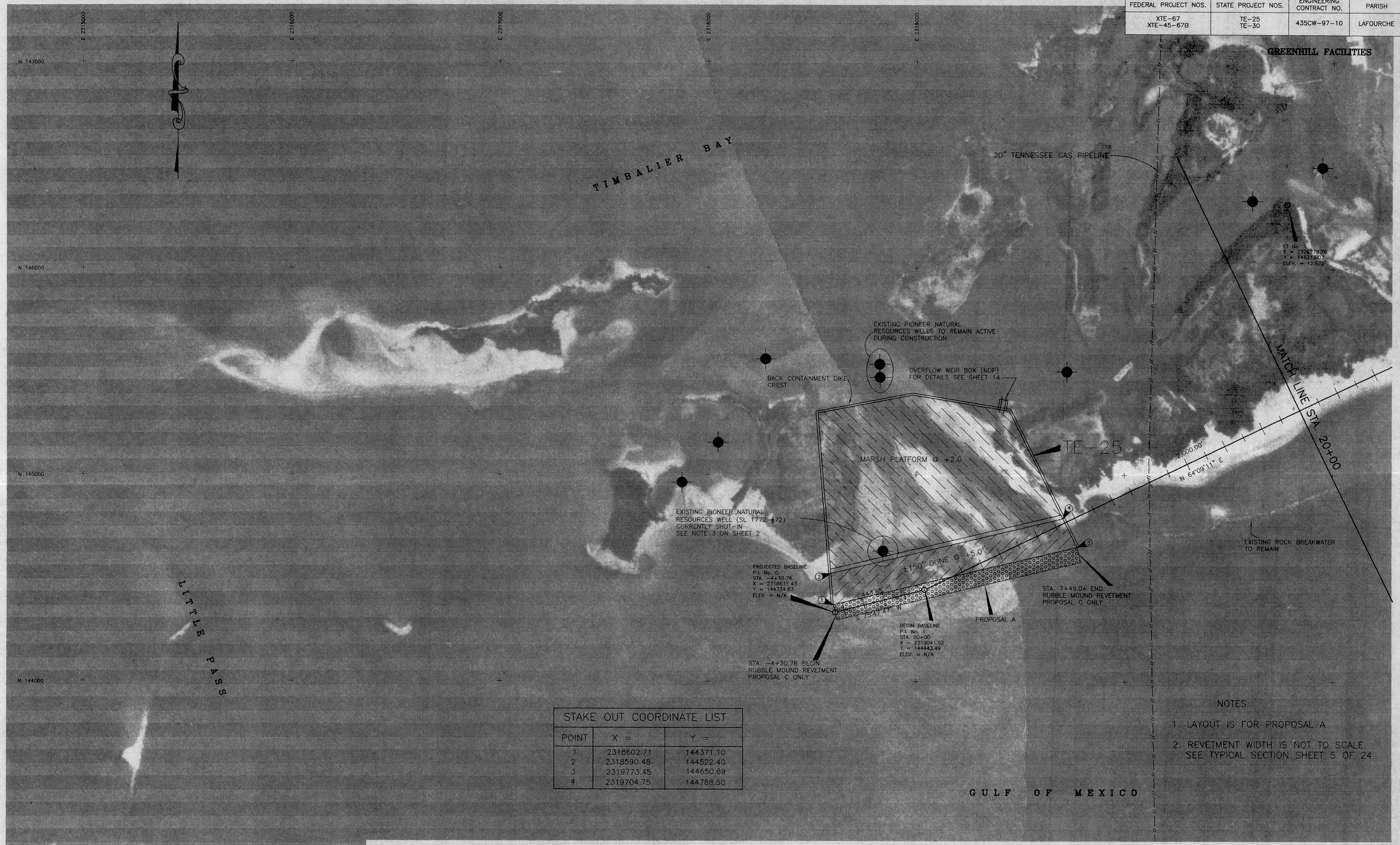
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
TYPICAL CROSS-SECTION
AND
EROSION PROTECTION DETAILS

SHEET NO. 5 OF 24

571-96: TYPSEC1.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



STAKE OUT COORDINATE LIST		
POINT	X =	Y =
1	2318602.71	144371.10
2	2318590.48	144522.40
3	2319773.45	144650.69
4	2319704.75	144788.50

NOTES:

1. LAYOUT IS FOR PROPOSAL A
2. REVETMENT WIDTH IS NOT TO SCALE. SEE TYPICAL SECTION SHEET 5 OF 24.

571-97: ET-PLAN1.DWG

REVISIONS:

DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II, REG. No. 12171, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG
DRAWN BY: CGL
CHECKED BY: MJR

DATE: 02/23/98
SCALE: 1" = 200'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
PROJECT LAYOUT AERIAL

SHEET NO. 6 OF 24

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

NOTES:

1. LAYOUT IS FOR PROPOSAL A
2. CONTRACTOR SHALL NOT EXCAVATE WITHIN 100' OF THE 12" KOCH GATEWAY PIPELINE. (SEE NOTE 2 OF SHEET 2)

STAKE OUT COORDINATE LIST

POINT	X =	Y =
5	2321828.19	145540.96
6	2321767.27	145699.27
7	2323810.80	146302.00
8	2323682.01	146434.65
9	2323904.67	146526.47
10	2323755.84	146611.19
11	2323983.41	146632.47
12	2323886.20	146786.70
13	2324112.15	146657.63
14	2324097.14	146826.97
15	2324235.33	146669.15
16	2324236.05	146839.96
17	2324562.94	146635.83
18	2324553.95	146807.54
19	2325421.88	146806.87
20	2325335.61	146963.04
21	2325692.00	146996.84
22	2325558.00	147119.45
23	2325845.78	147262.85
24	2325703.48	147371.09
25	2326045.59	147446.27
26	2325941.58	147610.75
27	2326133.28	147518.51
28	2326030.18	147675.00

REVISIONS:

DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II, REG. No. 12171, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

SCALE: 1" = 200'

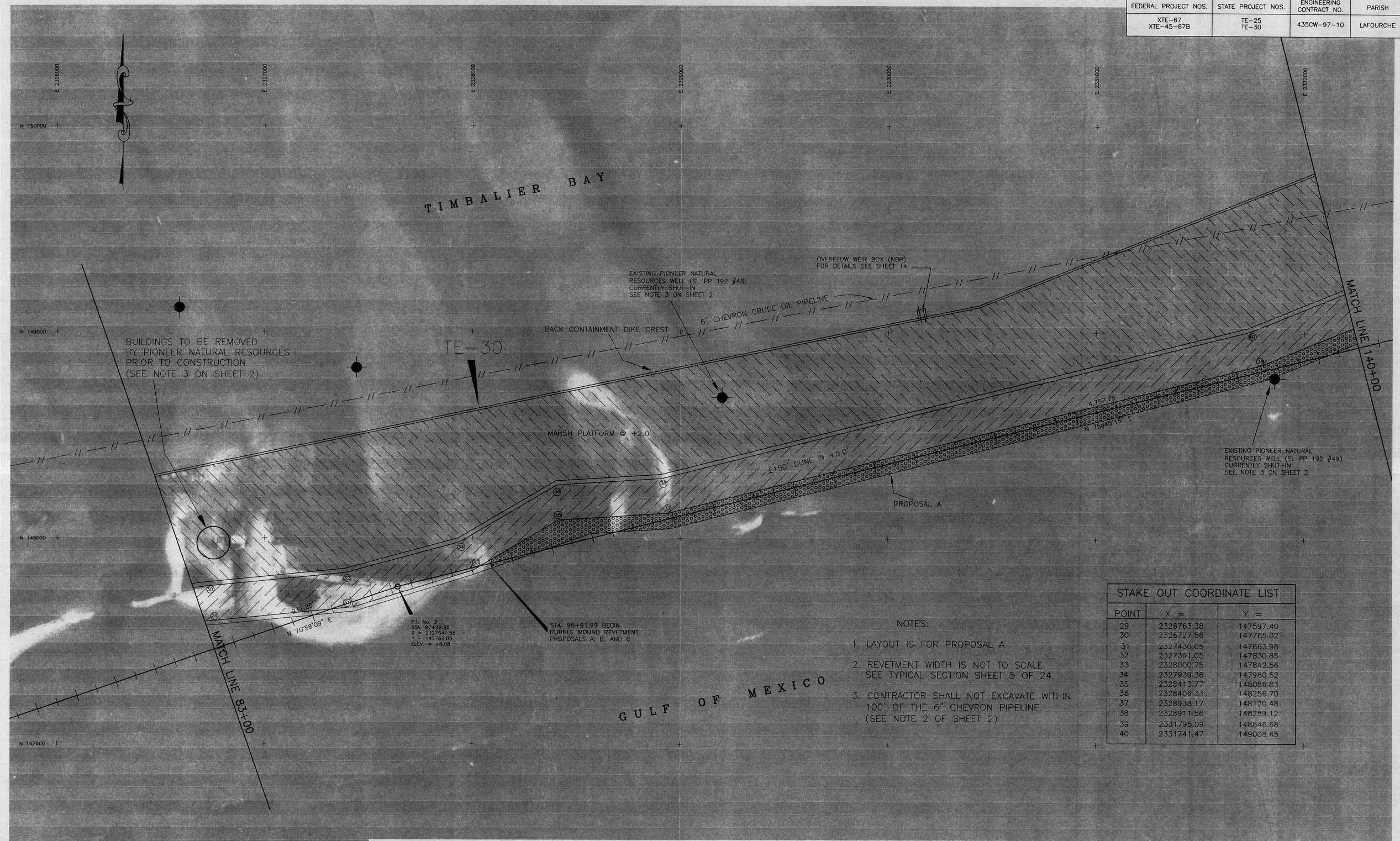
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
PROJECT LAYOUT AERIAL

SHEET NO. 7 OF 24

571-97: ET-PLAN2.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



NOTES:

1. LAYOUT IS FOR PROPOSAL A
2. REVETMENT WIDTH IS NOT TO SCALE. SEE TYPICAL SECTION SHEET 5 OF 24.
3. CONTRACTOR SHALL NOT EXCAVATE WITHIN 100' OF THE 6" CHEVRON PIPELINE. (SEE NOTE 2 OF SHEET 2)

STAKE OUT COORDINATE LIST

POINT	X =	Y =
29	2326763.38	147597.40
30	2326727.56	147765.02
31	2327430.05	147663.98
32	2327391.05	147830.85
33	2328000.75	147842.56
34	2327939.36	147980.52
35	2328413.77	148086.83
36	2328406.33	148256.70
37	2328938.17	148120.48
38	2328911.56	148289.12
39	2331795.09	148846.68
40	2331741.47	149008.45

REVISIONS:

DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II, REG. No. 12171, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: 1" = 200'

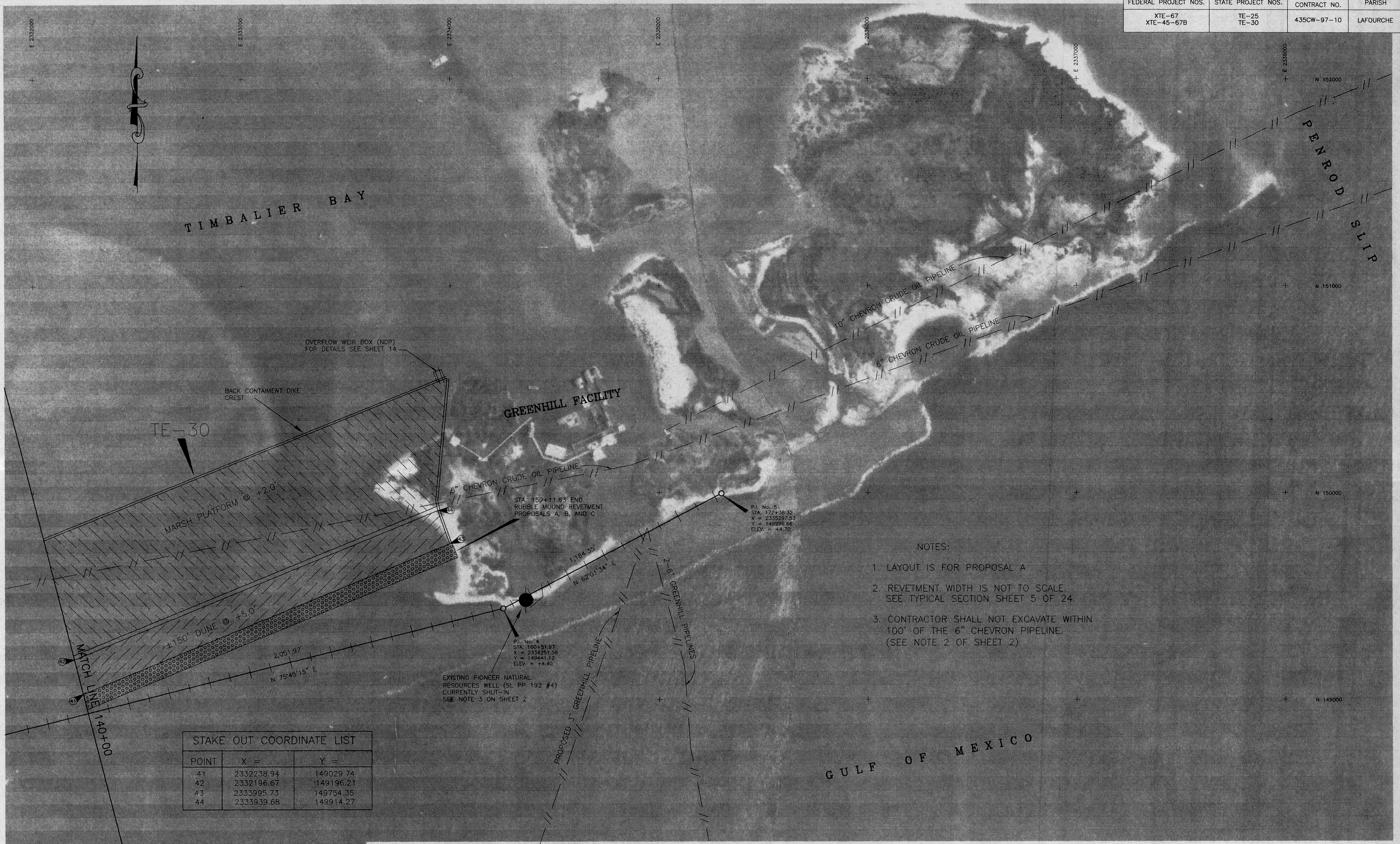
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
PROJECT LAYOUT AERIAL

SHEET NO. 8 OF 24

571-97: ET-PLAN3.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



NOTES:

1. LAYOUT IS FOR PROPOSAL A
2. REVETMENT WIDTH IS NOT TO SCALE. SEE TYPICAL SECTION SHEET 5 OF 24.
3. CONTRACTOR SHALL NOT EXCAVATE WITHIN 100' OF THE 6" CHEVRON PIPELINE. (SEE NOTE 2 OF SHEET 2)

STAKE OUT COORDINATE LIST

POINT	X =	Y =
41	2332238.94	149029.74
42	2332196.67	149196.21
43	2333995.73	149754.35
44	2333939.68	149914.27

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II, REG. No. 12171, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: 1" = 200'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
PROJECT LAYOUT AERIAL

SHEET NO. 9 OF 24

571-96: ET-PLAN4.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CV-97-10	LAFOURCHE

0–5' DREDGING DEPTH SAND SOURCE A COORDINATES

	POINT	X	Y
A–1	1	2299219.72	151087.80
	2	2302435.57	150588.79
	3	2310448.96	149649.03
	4	2311687.14	147928.24
	5	2311082.60	147666.60
	6	2310468.61	147435.29
	7	2310342.10	148396.67
	8	2310022.09	148926.02
	9	2309061.83	148605.24
	10	2309616.25	148225.93
	11	2310077.05	147275.95
	12	2309290.00	147280.10
	13	2309347.38	147748.79
	14	2308105.76	147973.49
	15	2308036.90	147411.09
	16	2302181.50	148539.32
	17	2301843.25	148733.09
	18	2302173.25	149080.78
	19	2301774.82	149393.95
	20	2301384.68	148995.79
	21	2300981.72	149226.63
	22	2300897.92	149930.17
	23	2298598.26	150960.25

0–5' DREDGING DEPTH SAND SOURCE B COORDINATES

	POINT	X	Y
B–1	1	2304773.74	147019.29
	2	2308237.64	146364.74
	3	2308419.96	144847.49
	4	2307042.98	145205.58
	5	2304689.80	146892.37

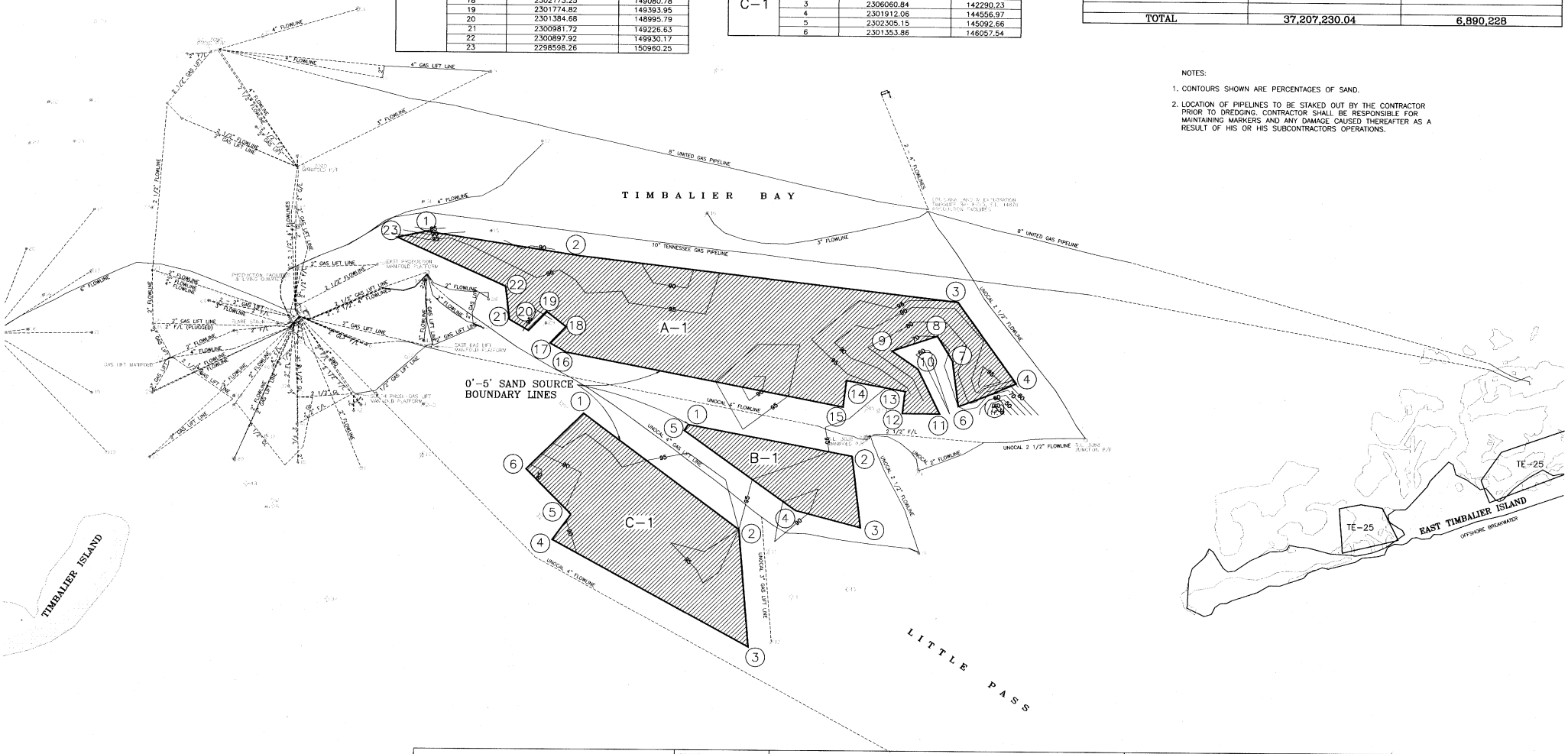
0–5 FEET SAND SOURCE C COORDINATES

	POINT	X	Y
C–1	1	2302558.62	147245.34
	2	2305853.40	144794.40
	3	2306060.84	142290.23
	4	2301912.06	144556.97
	5	2302305.15	145092.66
	6	2301353.86	146057.54

0–5' DREDGING DEPTH SAND SOURCE	> 70% AREA (SQ. FT.)	> 70% VOLUME (CU. YDS.)
A–1	22,604932.05	4,186,098
B–1	3,630,687.63	672,350
C–1	10,971,610.36	2,031,760
TOTAL	37,207,230.04	6,890,228

NOTES:

1. CONTOURS SHOWN ARE PERCENTAGES OF SAND.
2. LOCATION OF PIPELINES TO BE STAKED OUT BY THE CONTRACTOR PRIOR TO DREDGING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MARKERS AND ANY DAMAGE CAUSED THEREAFTER AS A RESULT OF HIS OR HIS SUBCONTRACTORS OPERATIONS.



SCALE IN FEET
1000 500 0 1000 2000 3000

571-96: SAND0-5.DWG

REVISIONS:	
DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: 1" = 1000'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
SAND SOURCE CONTOUR MAP (0'–5')

SHEET NO. 10 OF 24

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

5'-10' DREDGING DEPTH SAND SOURCE A COORDINATES

	POINT	X	Y
A-2	1	2298876.94	150832.09
	2	2299637.73	151023.74
	3	2303320.56	150485.01
	4	2303602.18	149841.44
	5	2305124.97	149360.16
	6	2305304.79	150252.31
	7	2305499.67	150229.45
	8	2305436.89	149279.63
	9	2306249.67	148855.47
	10	2306647.38	148287.44
	11	2308105.76	147973.49
	12	2308036.90	147411.09
	13	2302181.50	148539.32
	14	2301843.25	148733.09
	15	2302173.25	149080.78
	16	2301774.82	149393.95
	17	2301384.68	148995.79
	18	2300981.72	149226.63
	19	2300897.92	149930.17
A-3	20	2306382.09	149102.25
	21	2307018.44	150051.34
	22	2308942.00	149825.75
	23	2308516.15	148484.25
	24	2308120.08	148048.21
	25	2307804.97	149355.79
	26	2307327.47	149411.79

5'-10' DREDGING DEPTH SAND SOURCE B COORDINATES

	POINT	X	Y
B-2	1	2304773.74	147019.29
	2	2306491.69	146689.67
	3	2306489.50	146342.83
	4	2306411.11	145658.51
	5	2304689.80	146892.37

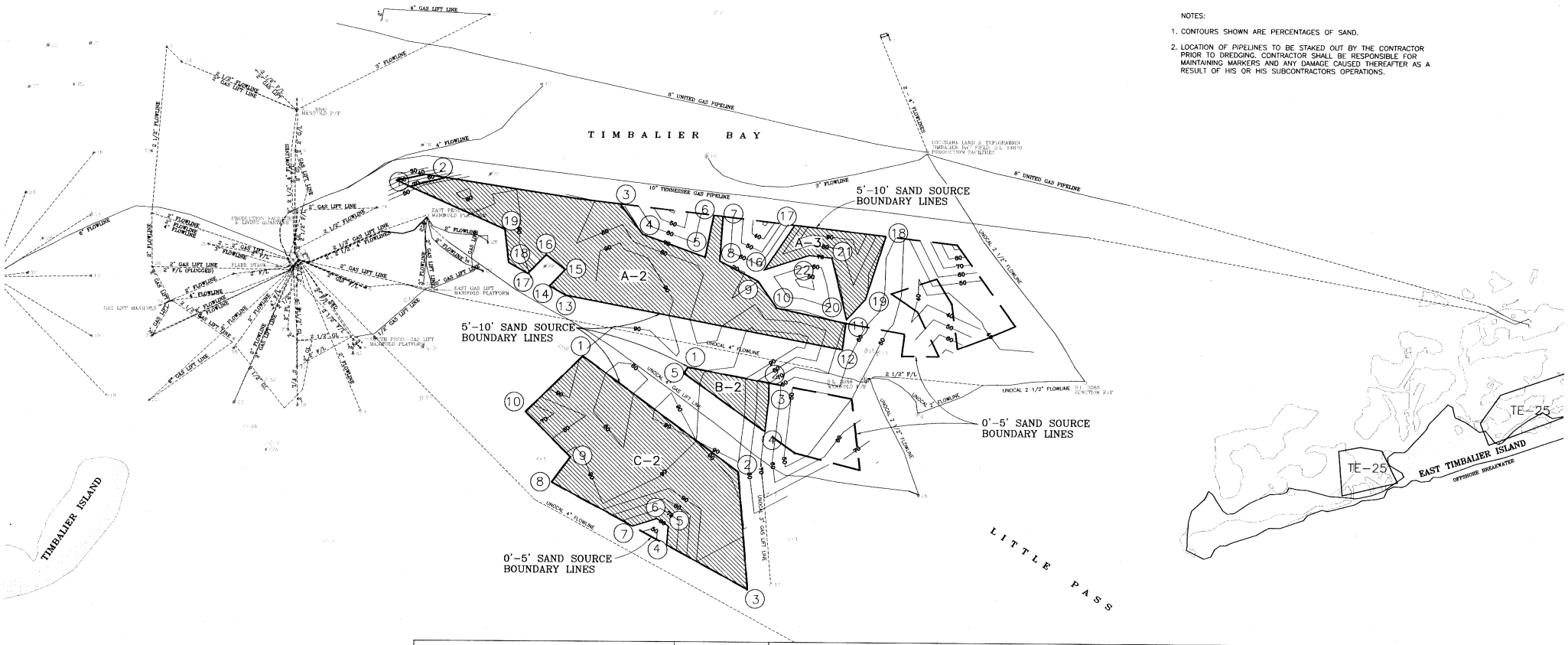
5'-10' DREDGING DEPTH SAND SOURCE C COORDINATES

	POINT	X	Y
C-2	1	2302558.62	147245.34
	2	2305853.40	144794.40
	3	2306060.84	142290.23
	4	2304346.55	143226.86
	5	2304379.59	143627.45
	6	2304133.26	143789.85
	7	2303621.34	143623.09
	8	2301912.06	144556.97
	9	2302305.15	145092.66
	10	2301353.86	146057.54

5'-10' DREDGING DEPTH SAND SOURCE	> 70% AREA (SQ. FT.)			> 70% VOLUME (CU. YDS.)		
	SAND SOURCE A	SAND SOURCE B	SAND SOURCE C	SAND SOURCE A	SAND SOURCE B	SAND SOURCE C
A-2	11,582,608.64			2,144,928		
A-3	2,064,661.14			382,345		
B-2		1,072,883.10			198,682	
C-2			10,757,699.26			1,992,166
TOTAL	13,647,269.78	1,247,989.31	10,757699.26	2,527,272	198,682	1,992,166

NOTES:

1. CONTOURS SHOWN ARE PERCENTAGES OF SAND.
2. LOCATION OF PIPELINES TO BE STAKED OUT BY THE CONTRACTOR PRIOR TO DREDGING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MARKERS AND ANY DAMAGE CAUSED THEREAFTER AS A RESULT OF HIS OR HIS SUBCONTRACTORS OPERATIONS.



REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARIO I. PICCIOLA II, REG. No. 19171, REGISTERED PROFESSIONAL ENGINEER, CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

SCALE: 1" = 1000'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
SAND SOURCE CONTOUR MAP (5'-10)

SHEET NO. 11 OF 24

571-96: SAND5-10.DWG

FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

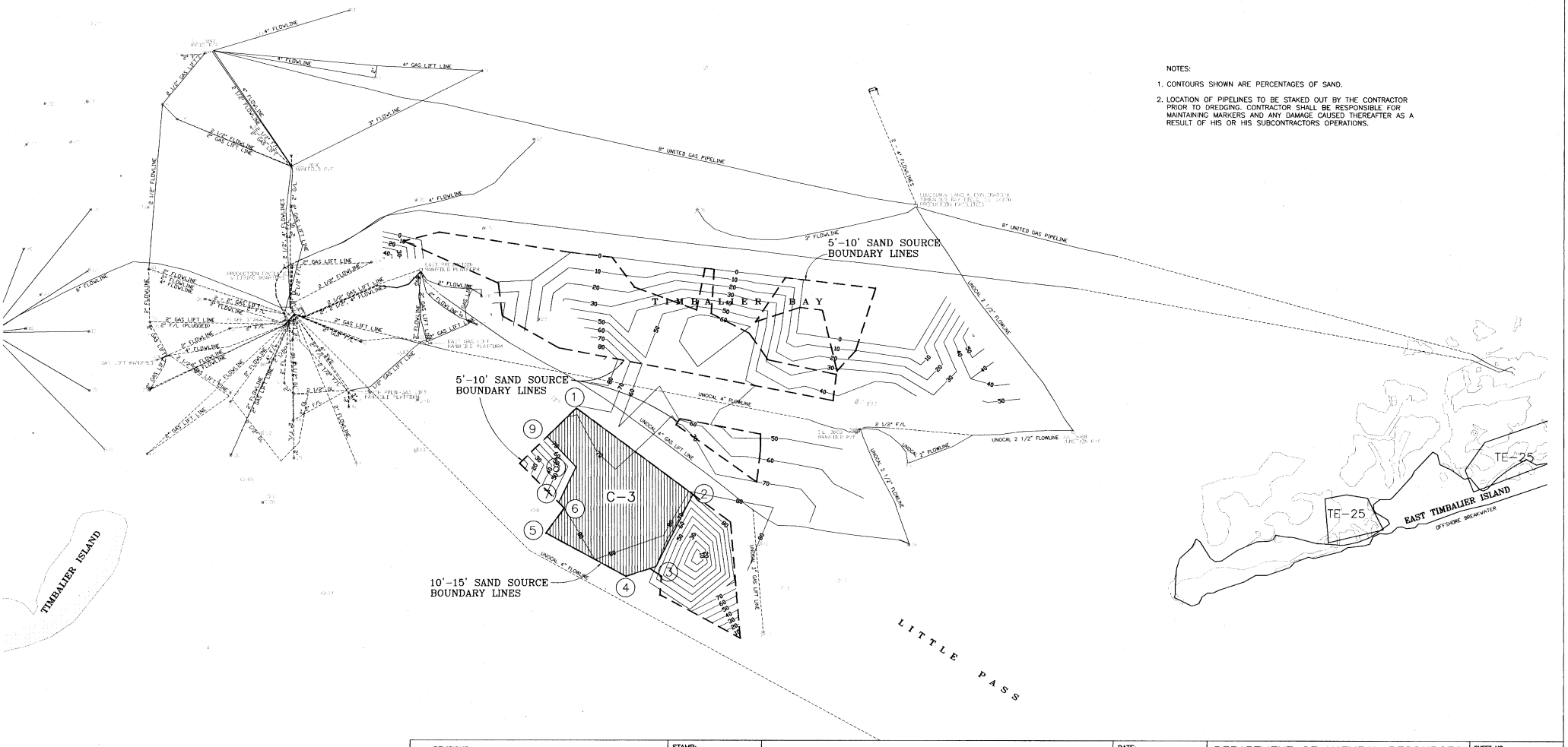
10'-15' DREDGING DEPTH SAND SOURCE A COORDINATES

	POINT	X	Y
C-3	1	2302558.62	147245.34
	2	2305049.03	145392.76
	3	2304259.92	143831.11
	4	2303621.34	143623.09
	5	2301912.06	144556.97
	6	2302305.15	145092.66
	7	2302186.24	145213.27
	8	2302552.27	145980.06
	9	2301939.51	146634.94

10'-15' DREDGING DEPTH SAND SOURCE	> 70% AREA (SQ. FT.)	> 70% VOLUME (CU. YDS.)
C-3	6,490755.42	1,201,992
TOTAL	6,490755.42	1,201,992

NOTES:

1. CONTOURS SHOWN ARE PERCENTAGES OF SAND.
2. LOCATION OF PIPELINES TO BE STAKED OUT BY THE CONTRACTOR PRIOR TO DREDGING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MARKERS AND ANY DAMAGE CAUSED THEREAFTER AS A RESULT OF HIS OR HIS SUBCONTRACTORS OPERATIONS.



SCALE IN FEET

1000 500 0 1000 2000 3000

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA MARCO J. PICCIOLA II REG. No. 12571 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: 1" = 1000'

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
SAND SOURCE CONTOUR MAP (10'-15')

SHEET NO. 12 OF 24

571-98: SAN10-15.DWG

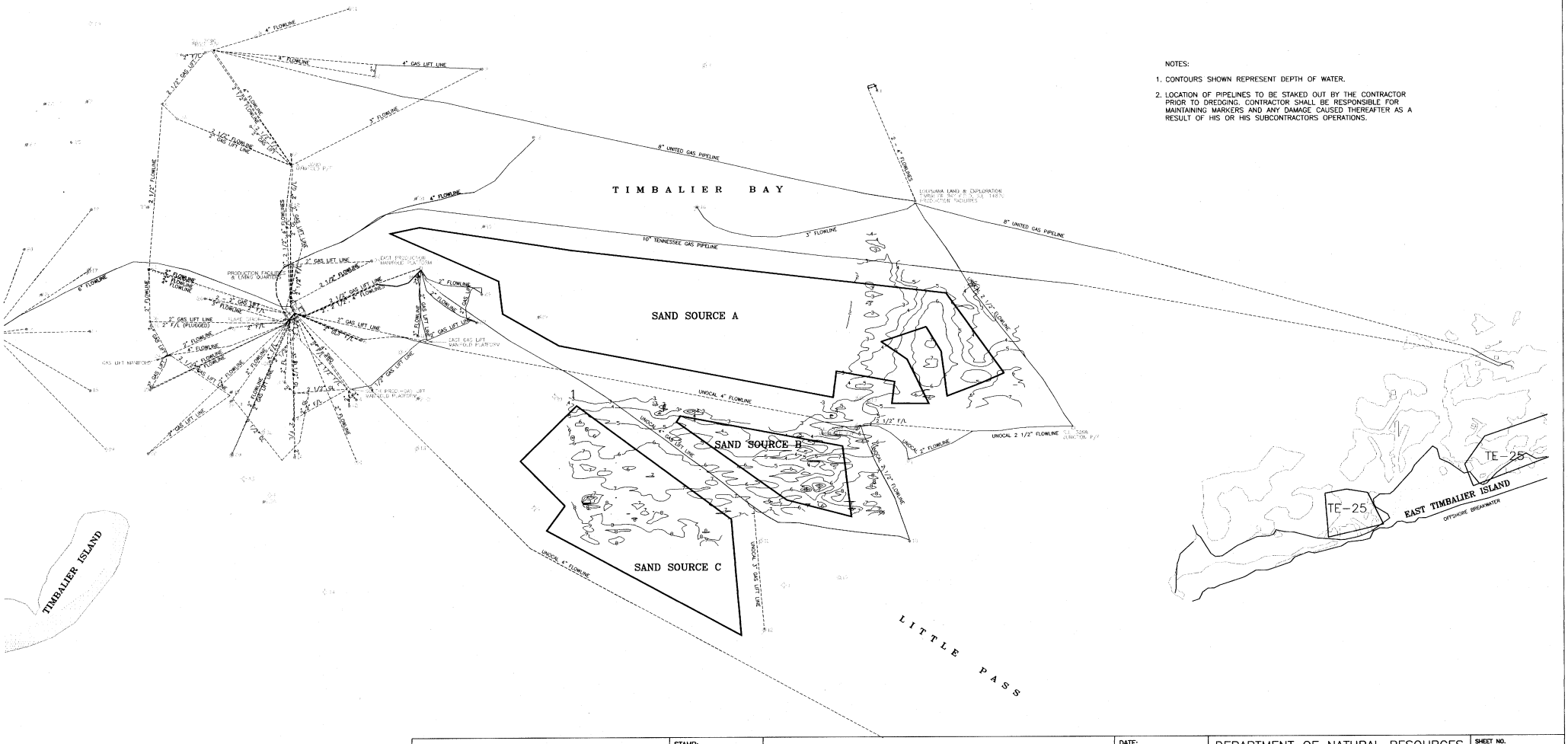
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CV-97-10	LAFOURCHE

SAND SOURCE VOLUME SUMMARY

SAND SOURCE REGION	VOLUME (CU. YDS.) (0'-5' DREDGING DEPTH)	VOLUME (CU. YDS.) (5'-10' DREDGING DEPTH)	VOLUME (CU. YDS.) (10'-15' DREDGING DEPTH)	TOTAL VOLUME (CUBIC YARDS)
A	4,186,098	2,527,272	--	6,713,370
B	672,350	198,682	--	871,032
C	2,031,780	1,992,166	1,201,992	5,225,938
TOTAL	6,890,228	4,718,120	1,201,992	12,810,340

NOTES:

1. CONTOURS SHOWN REPRESENT DEPTH OF WATER.
2. LOCATION OF PIPELINES TO BE STAKED OUT BY THE CONTRACTOR PRIOR TO DREDGING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MARKERS AND ANY DAMAGE CAUSED THEREAFTER AS A RESULT OF HIS OR HIS SUBCONTRACTORS OPERATIONS.



SCALE IN FEET
1000 500 0 1000 2000 3000

REVISIONS:	
DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: 1" = 1000'

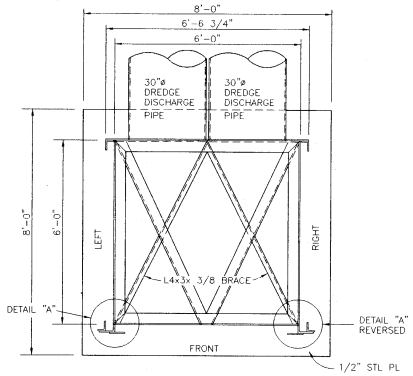
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
SAND SOURCE VOLUME SUMMARY
AND
WATER DEPTH CONTOURS

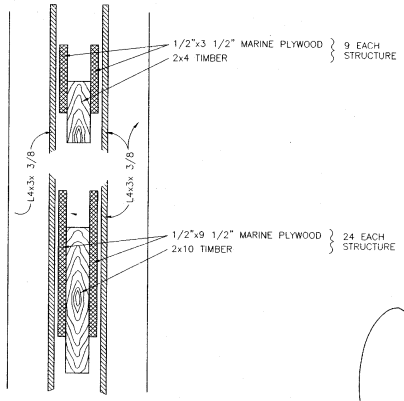
SHEET NO. 13 OF 24

571-96: SS-BATH.DWG

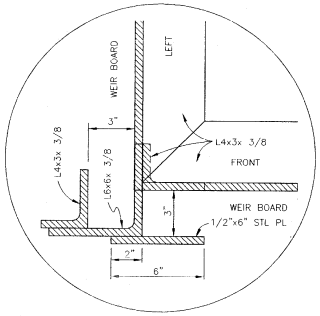
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE



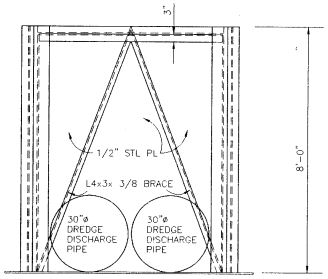
TOP VIEW
SCALE 1/2"=1'-0"



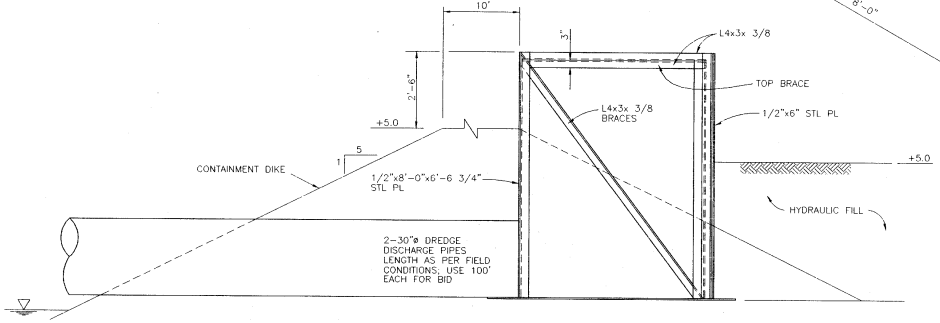
WEIR BOARD DETAIL
SCALE 1"=3"



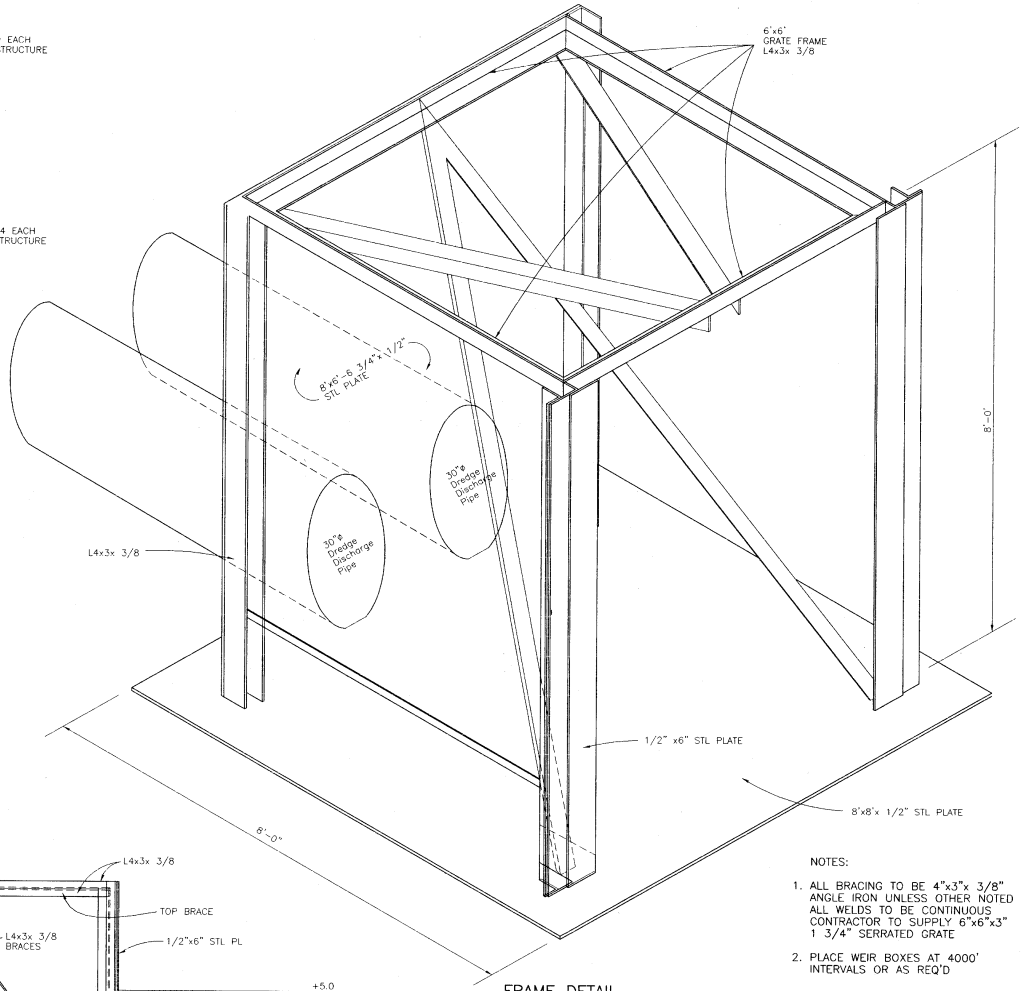
DETAIL "A"
SCALE 1"=3"



FRONT VIEW
SCALE 1/2"=1'-0"



LEFT VIEW
SCALE 1/2"= 1'-0"



FRAME DETAIL
ISOMETRIC VIEW
SCALE 1/2"=1'-0"

NOTES:

1. ALL BRACING TO BE 4"x3"x 3/8" ANGLE IRON UNLESS OTHER NOTED ALL WELDS TO BE CONTINUOUS. CONTRACTOR TO SUPPLY 6"x6"x3" 1 3/4" SERRATED GRATE
2. PLACE WEIR BOXES AT 4000' INTERVALS OR AS REQ'D

REVISIONS:	
DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DATE: 02/23/98

SCALE: 1/2" = 1'-0"

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

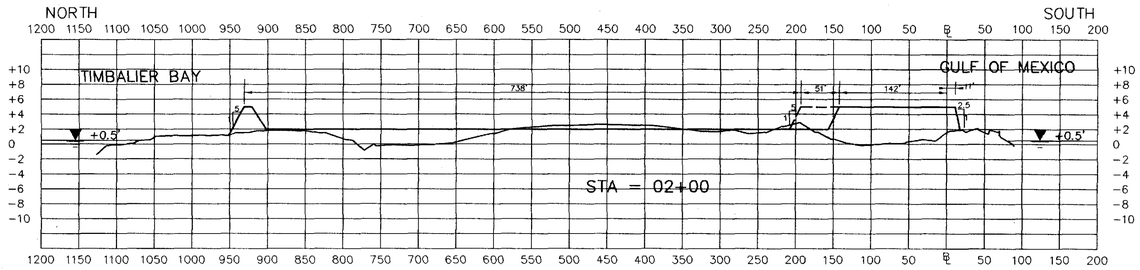
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
OVERFLOW WEIR BOX DETAILS

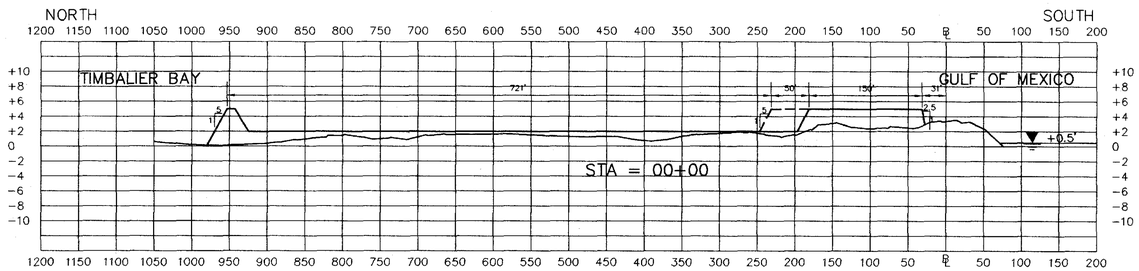
SHEET NO. 14 OF 24

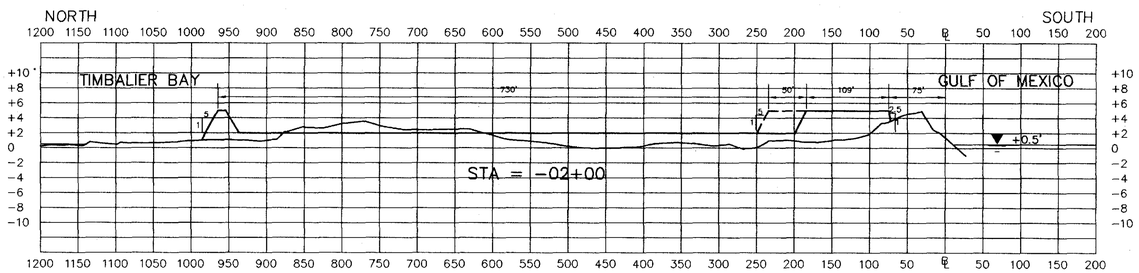
DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

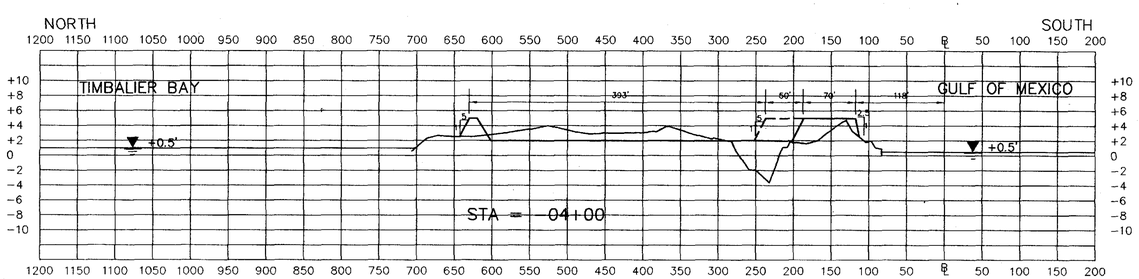
571-96: WEIR.DWG

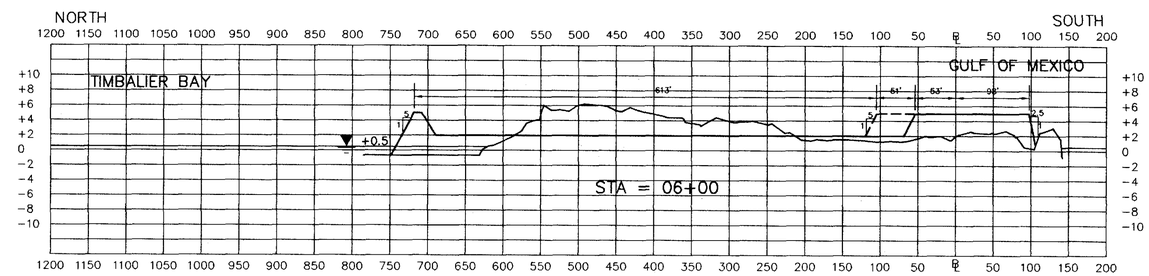
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

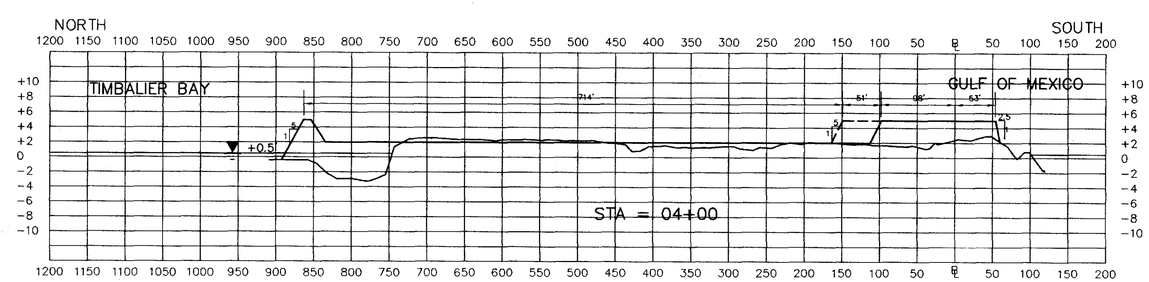












LEGEND

PROPOSAL A

PROPOSAL B AND C

NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

REVISIONS:	
DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: AS SHOWN

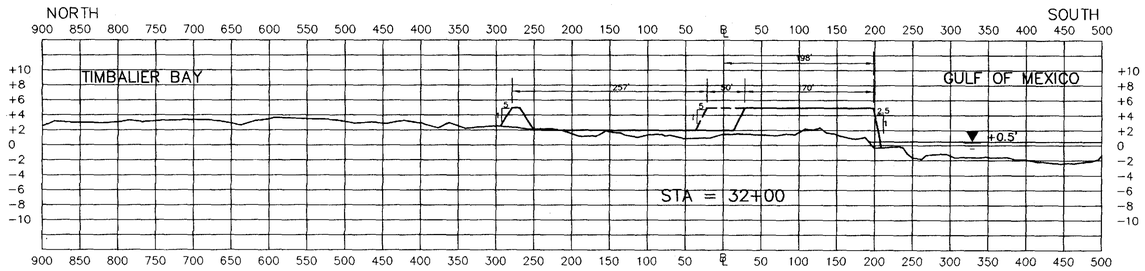
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

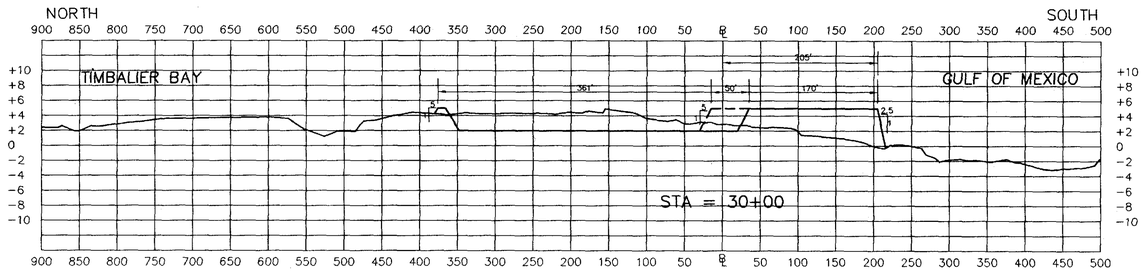
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

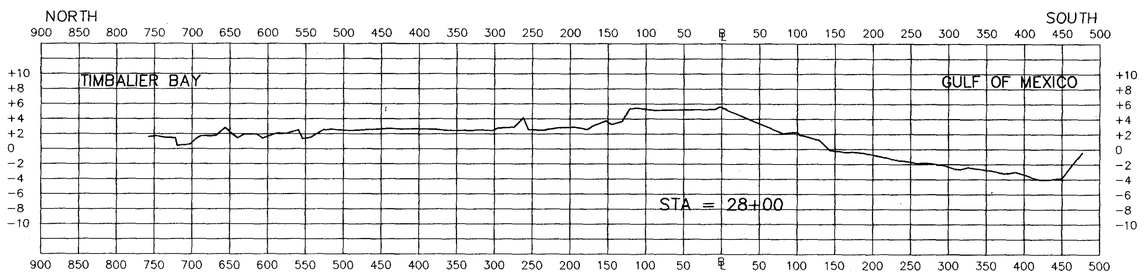
SHEET NO. 15 OF 24

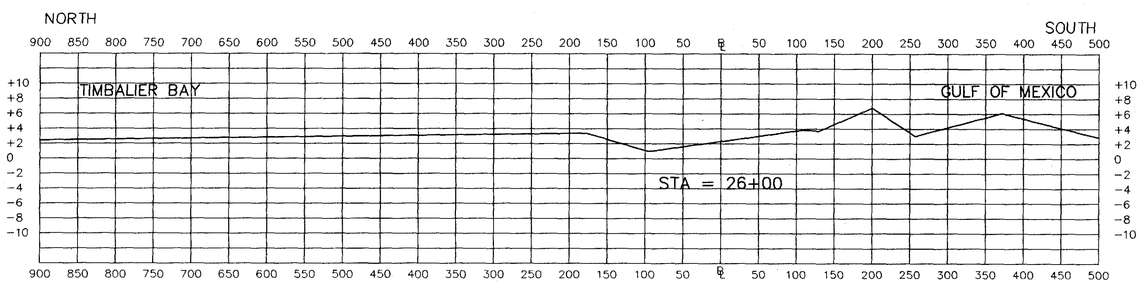
571-96: XSEC01.DWG

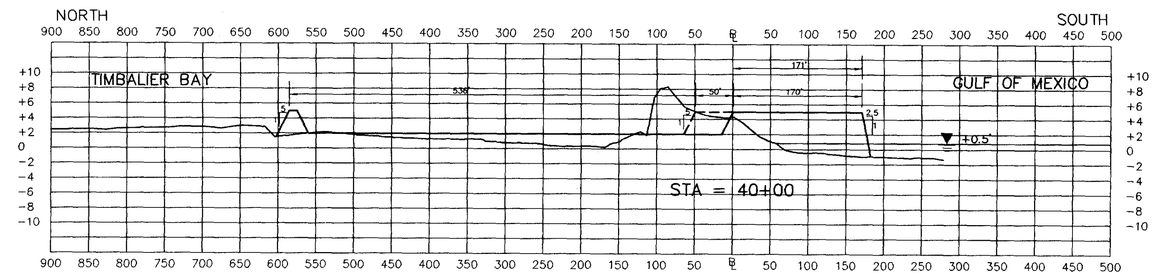
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

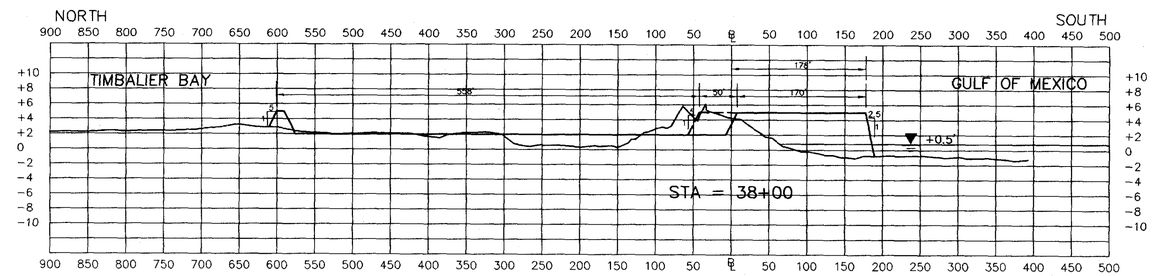


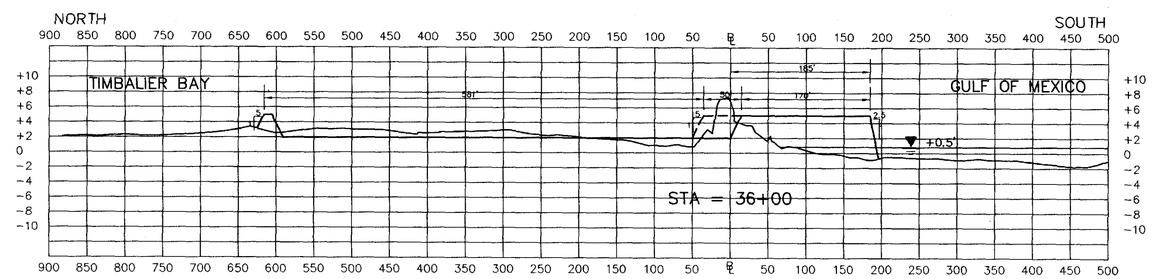


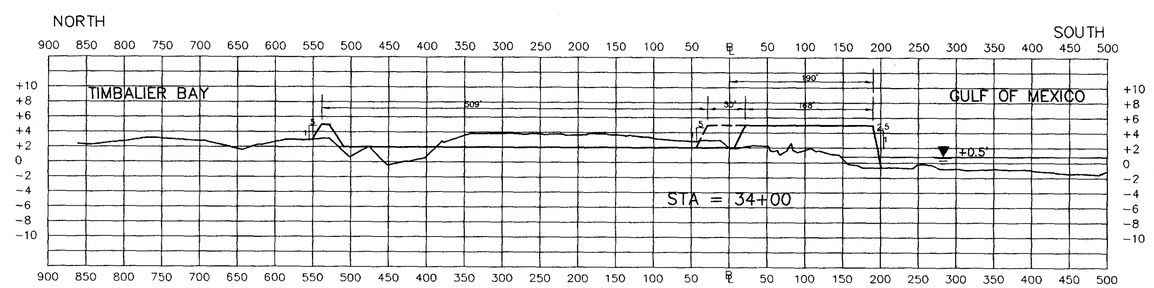












LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II — REG. No. 12171 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

SCALE: AS SHOWN

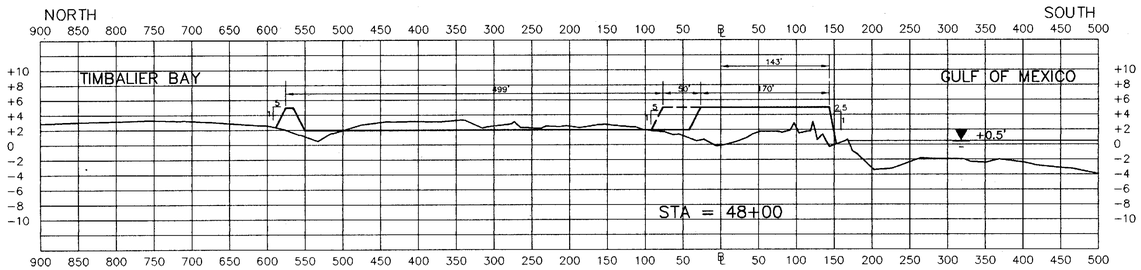
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

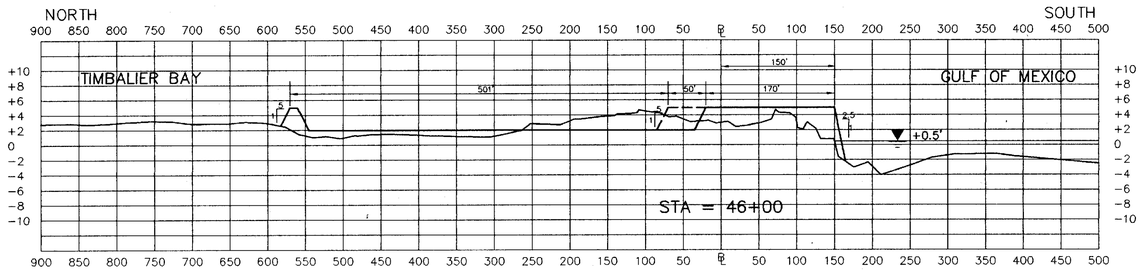
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

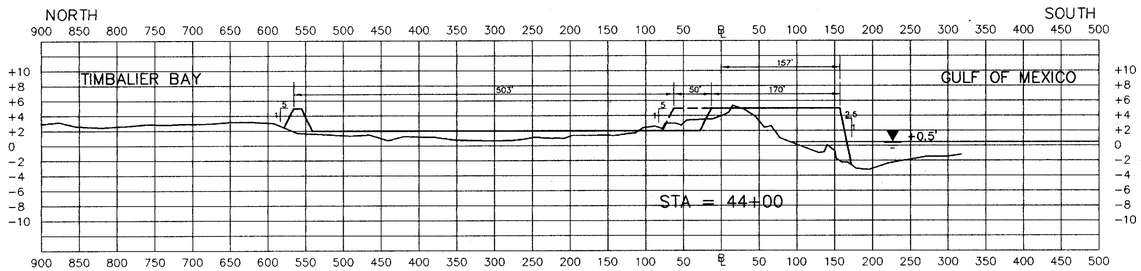
SHEET NO. 16 OF 24

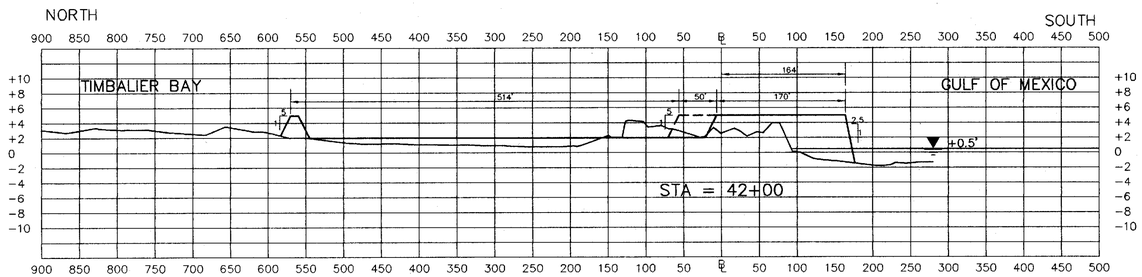
571-96: XSEC-02.DWG

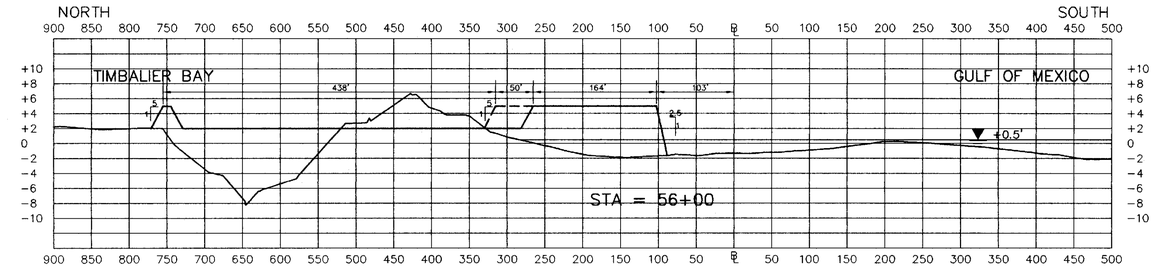
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

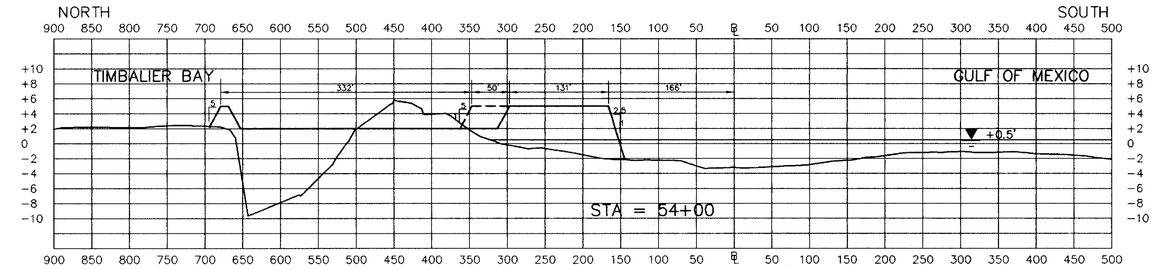


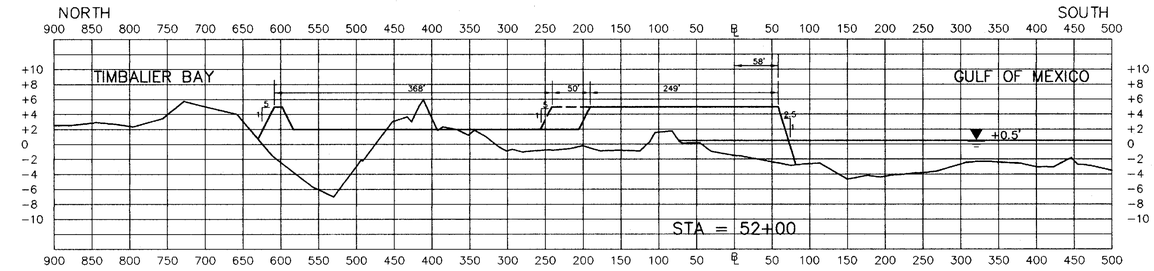


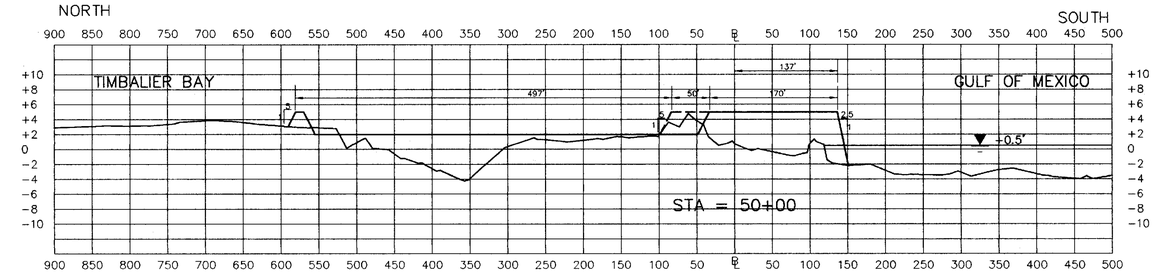












NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II — REG. No. 12171 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: AS SHOWN

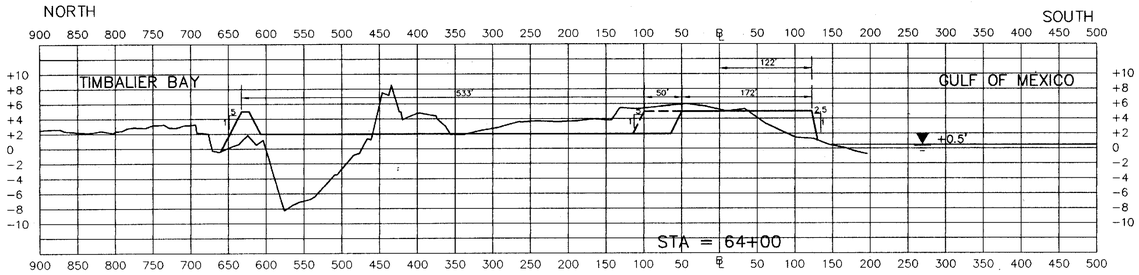
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

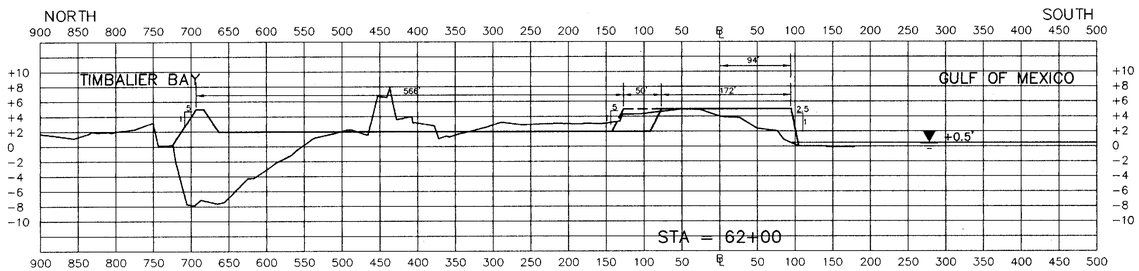
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

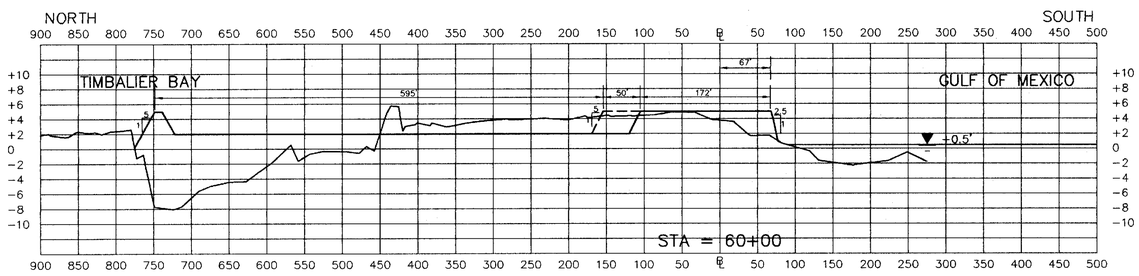
SHEET NO. 17 OF 24

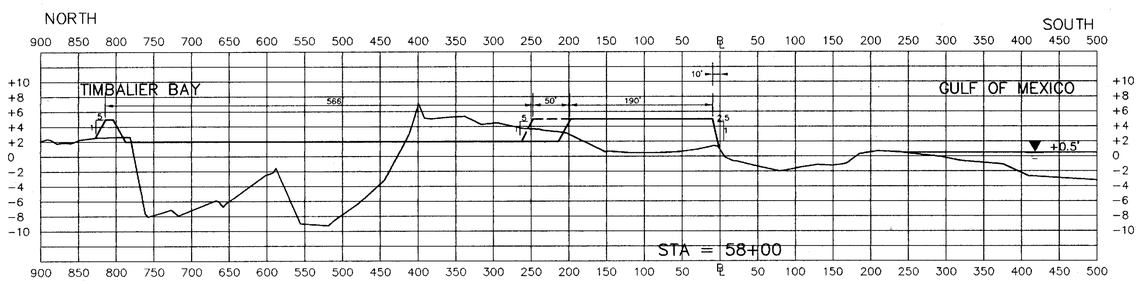
571-96: XSEC-03.DWG

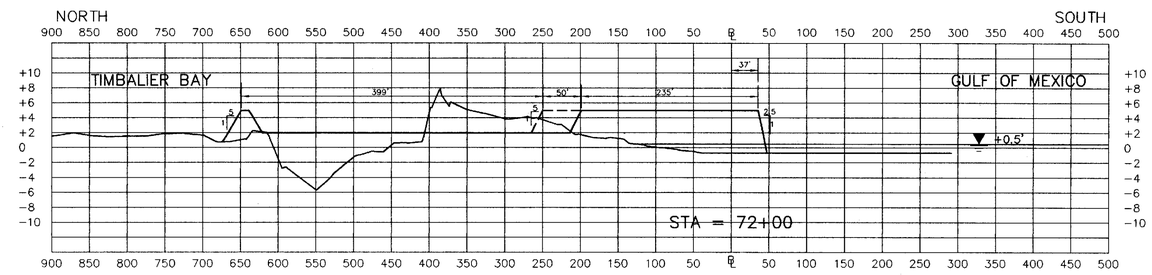
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

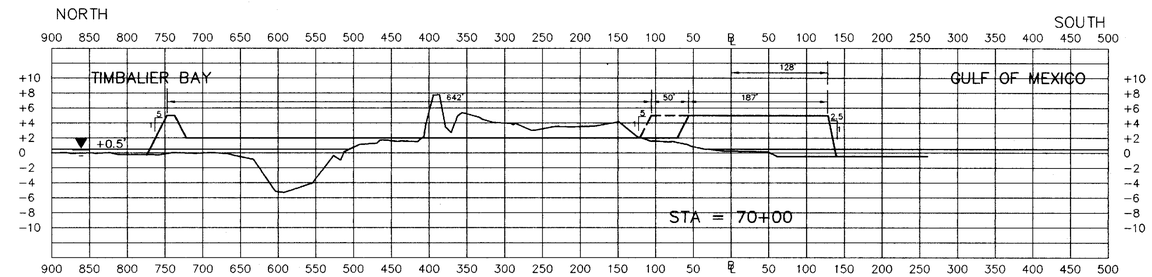


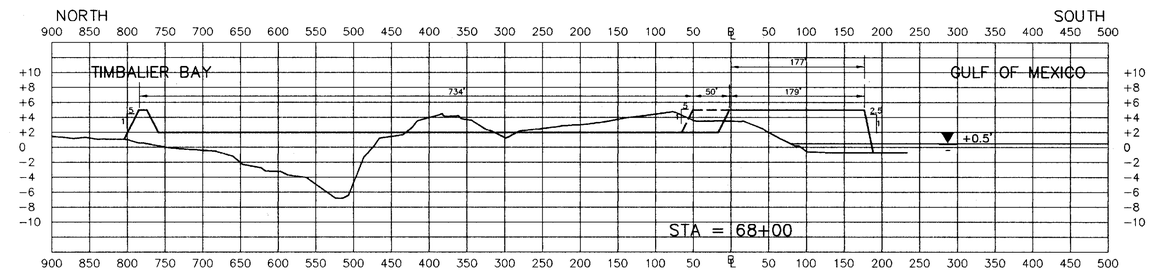


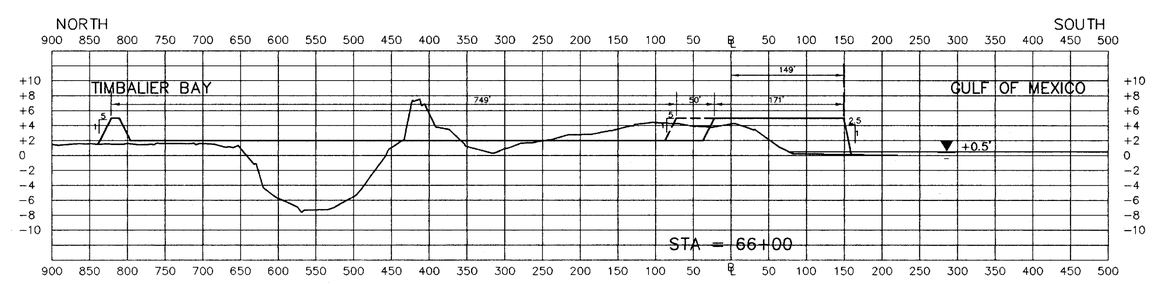












NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

REVISIONS:

DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: AS SHOWN

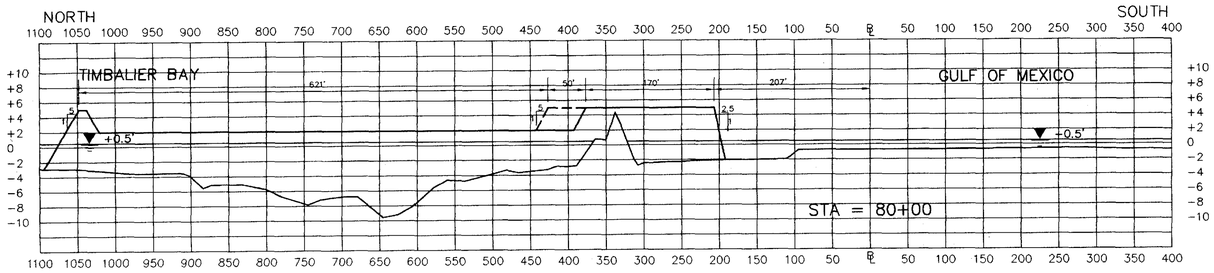
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

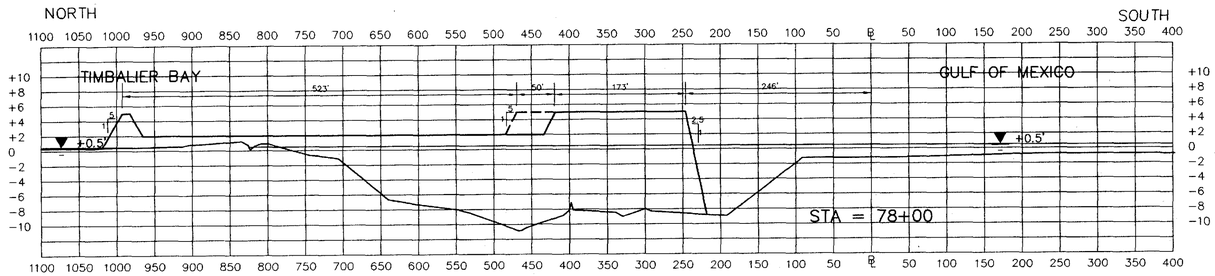
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

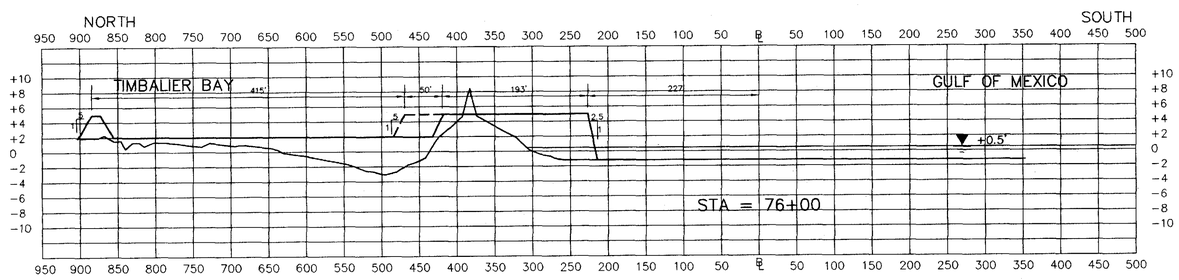
SHEET NO. 18 OF 24

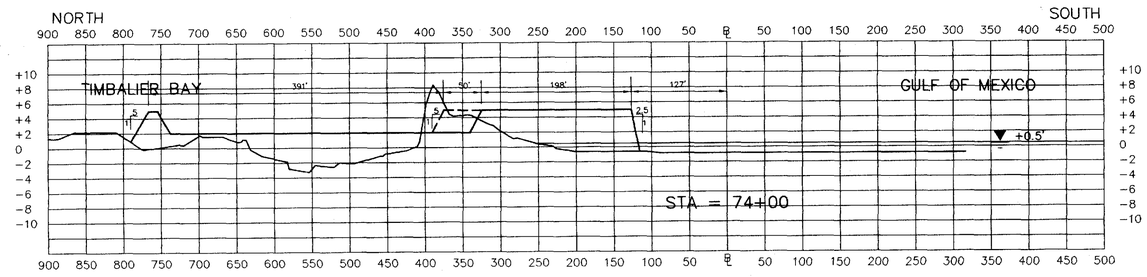
571-96: XSEC-04.DWG

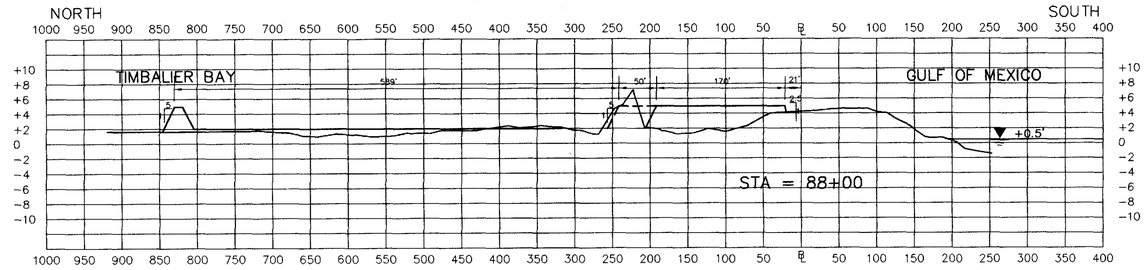
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

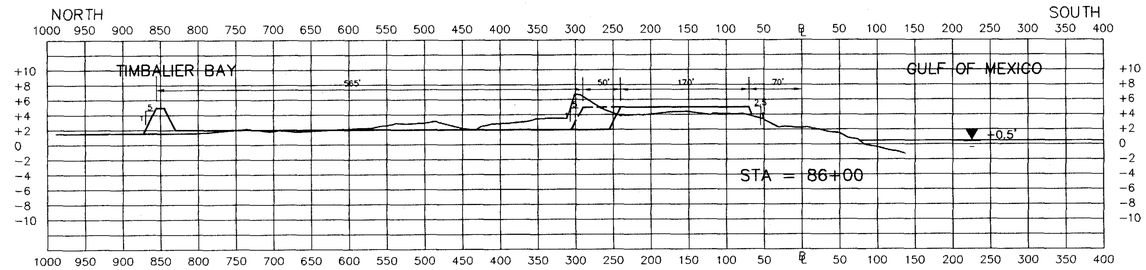


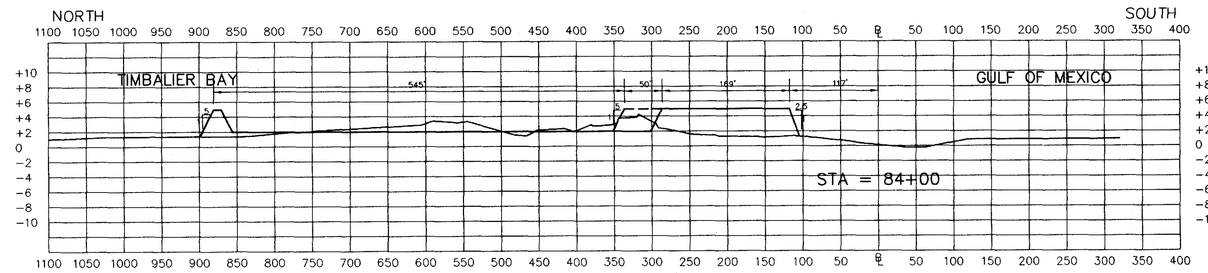


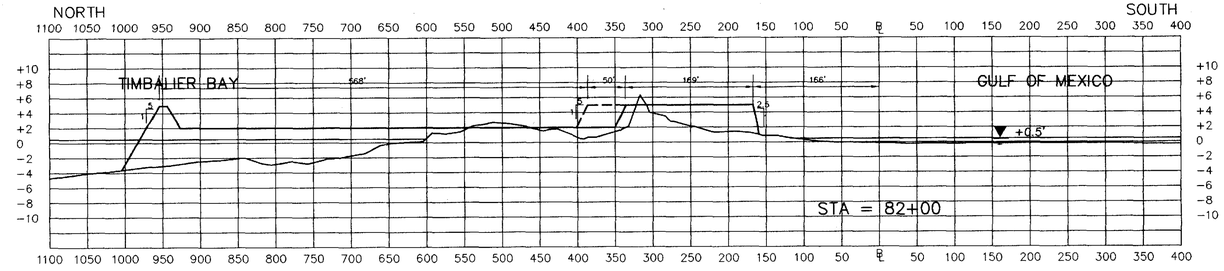












LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

REVISIONS:	
DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

DATE: 02/23/98

SCALE: AS SHOWN

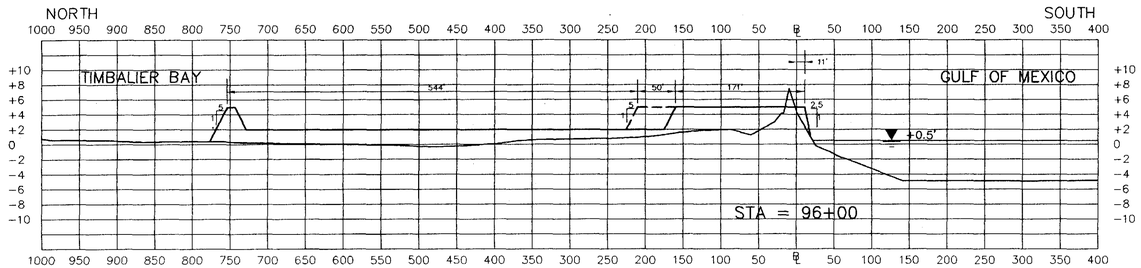
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

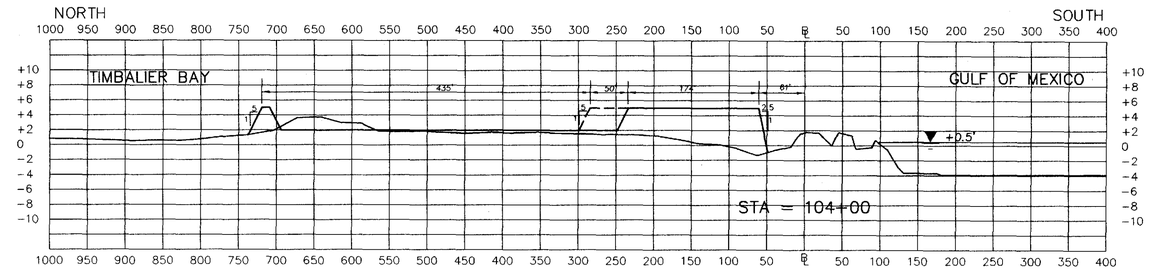
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

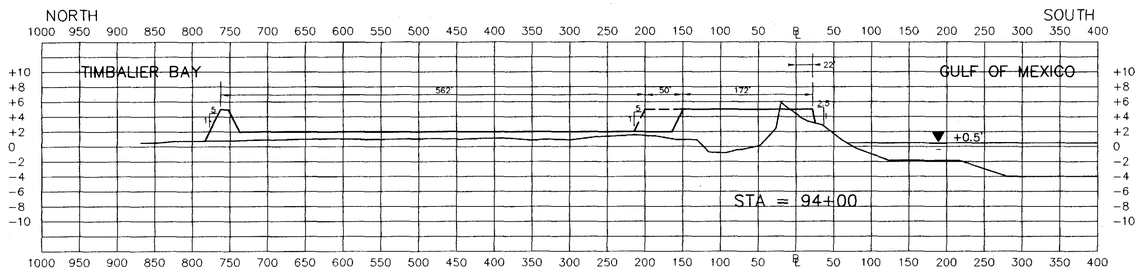
SHEET NO. 19 OF 24

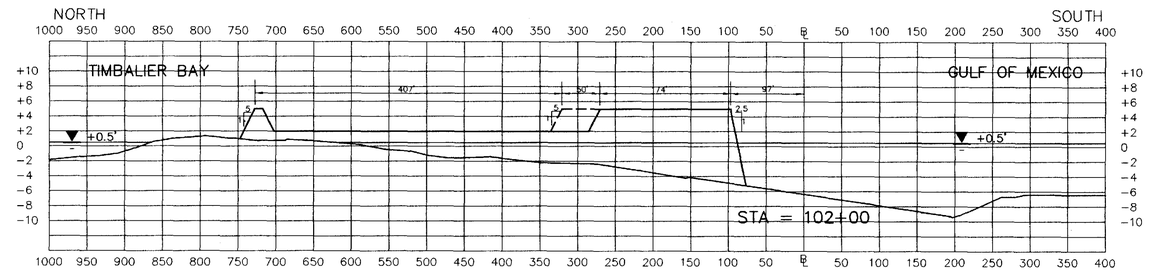
571-96: XSEC-05

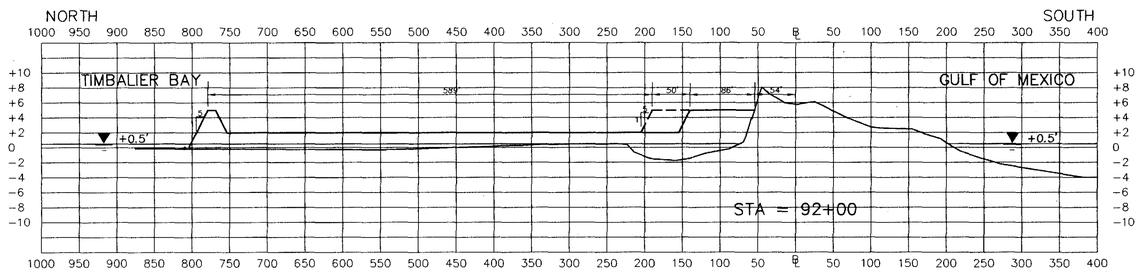
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

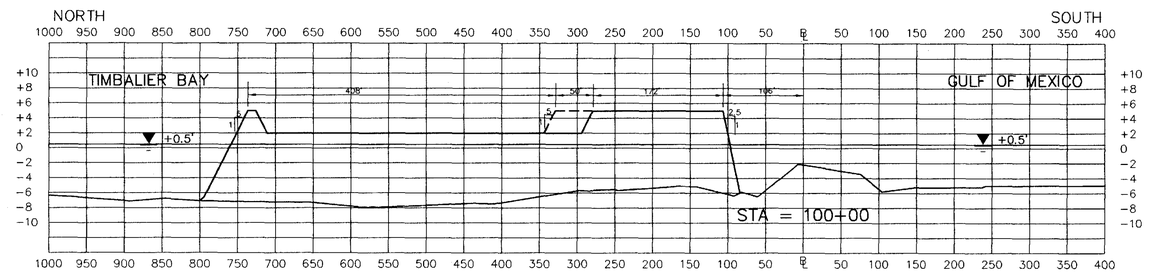


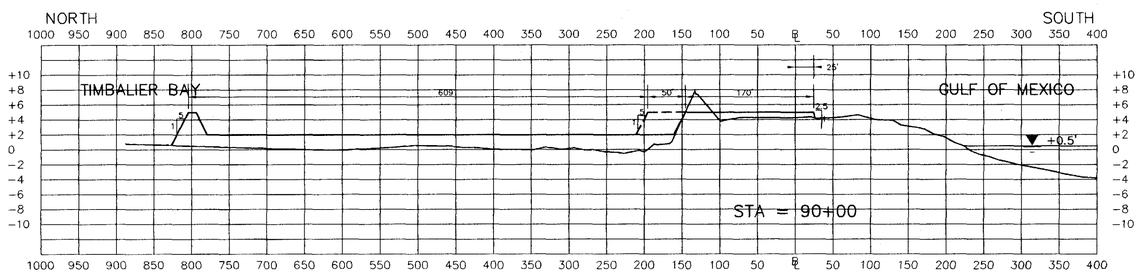


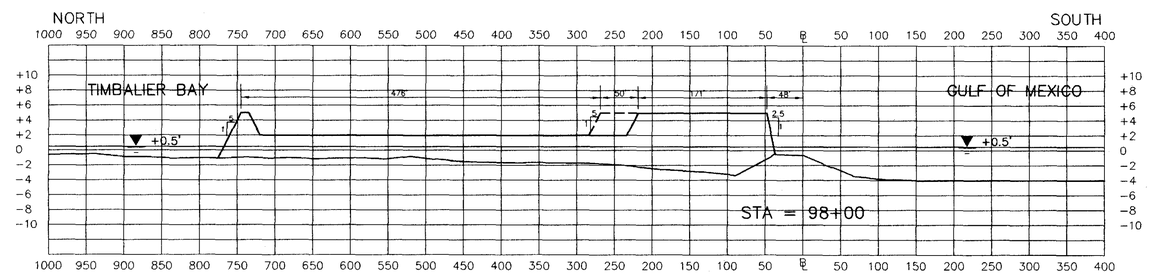












NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II — REG. No. 12171 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: AS SHOWN

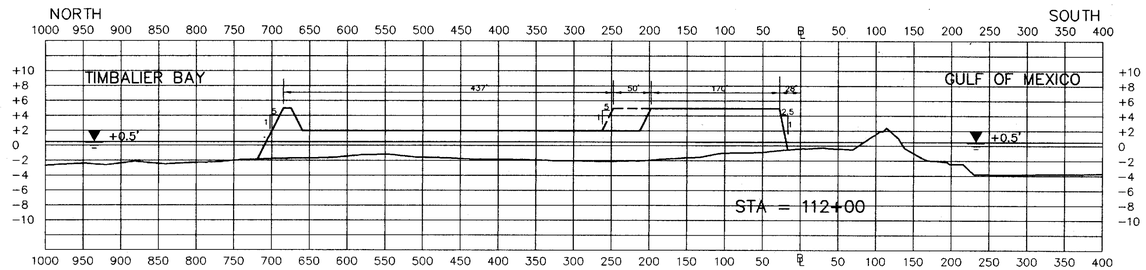
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

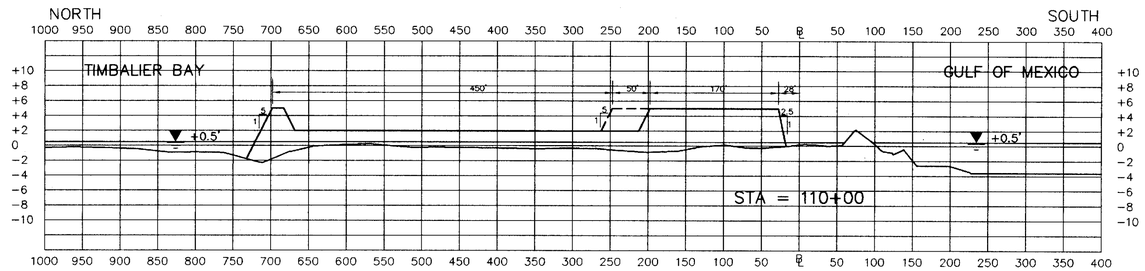
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

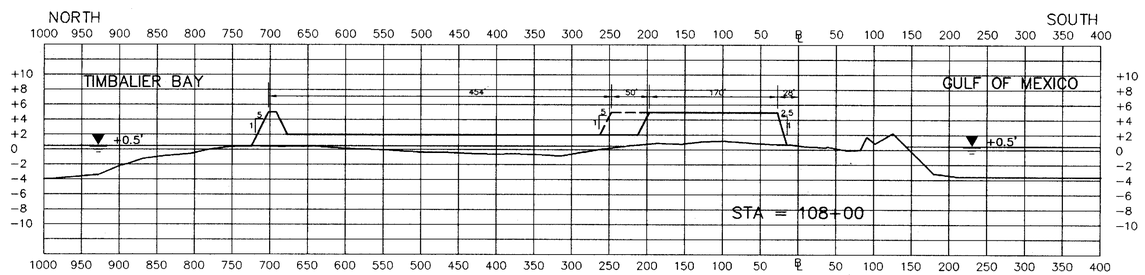
SHEET NO. 20 OF 24

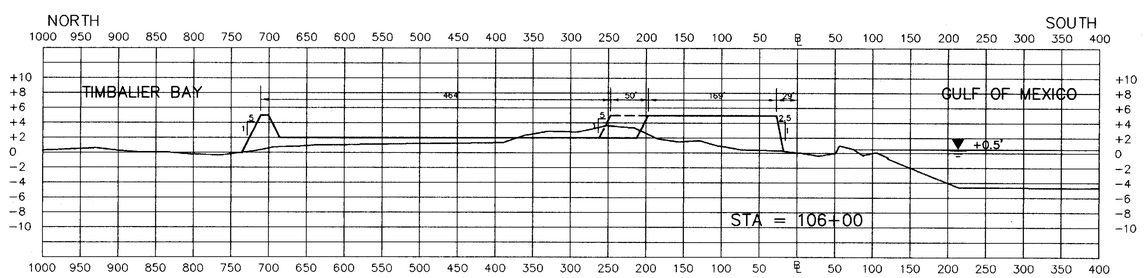
571-96: XSEC-06.DWG

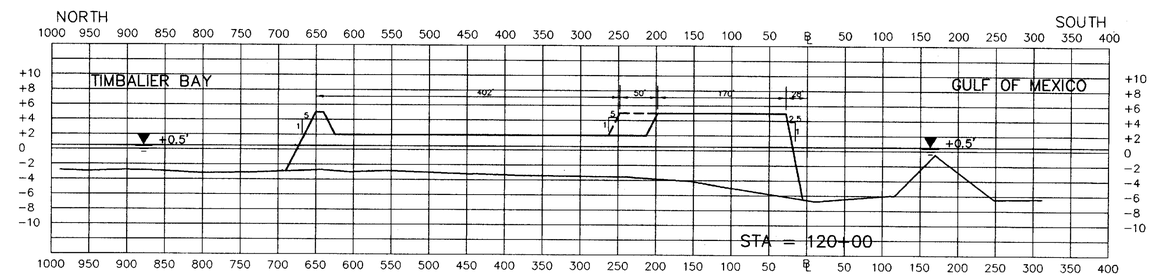
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

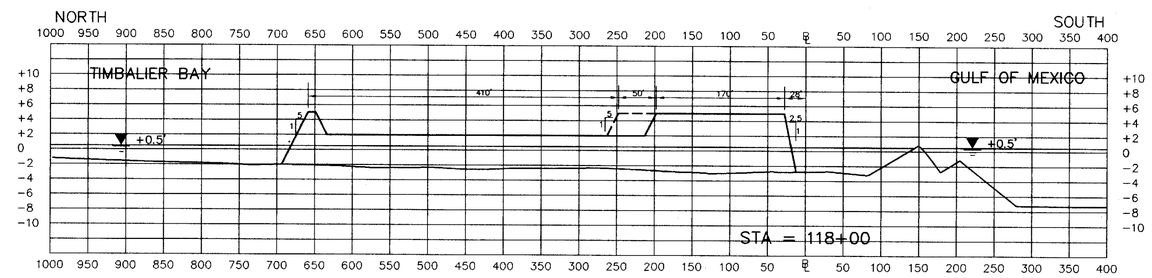


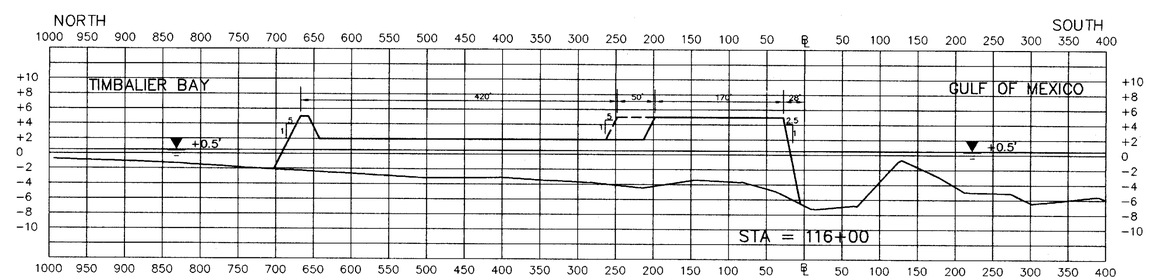


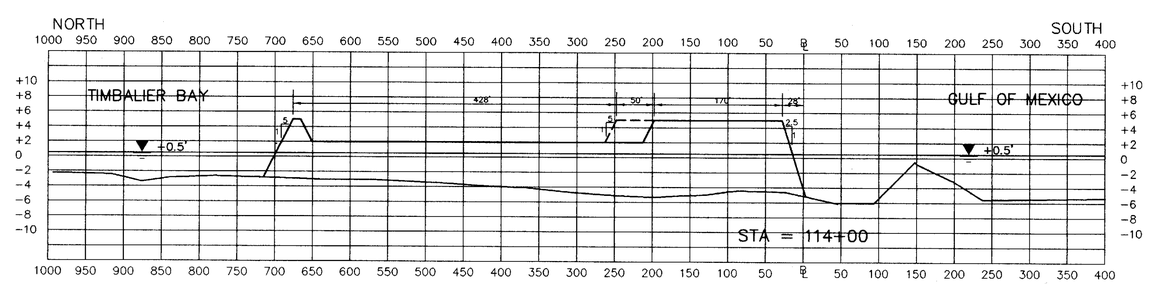












NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

REVISIONS:

DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: AS SHOWN

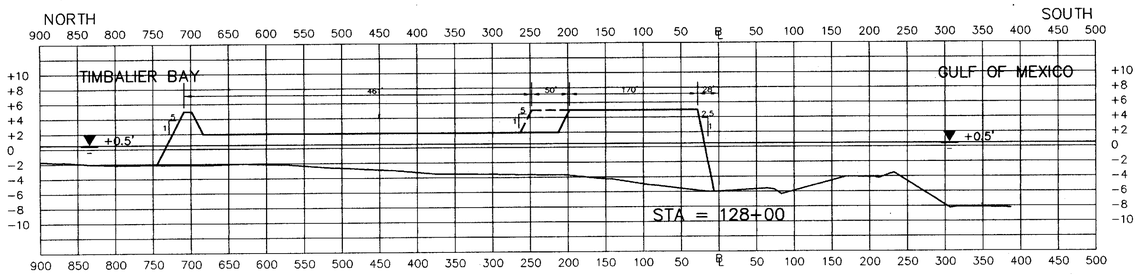
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

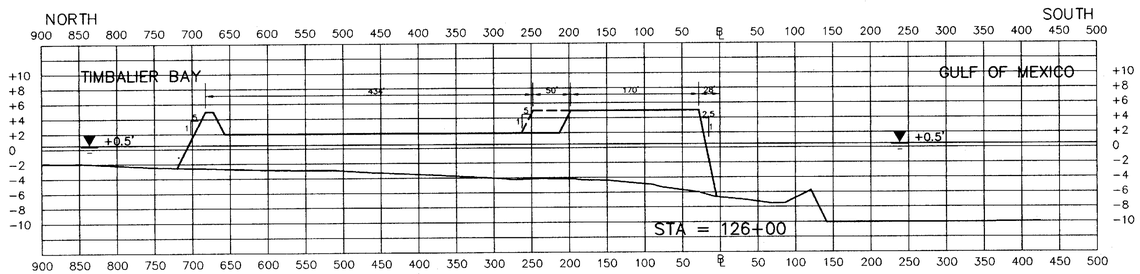
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

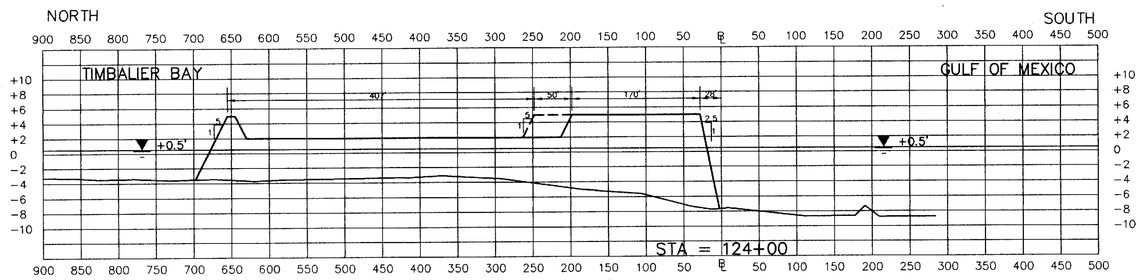
SHEET NO. 21 OF 24

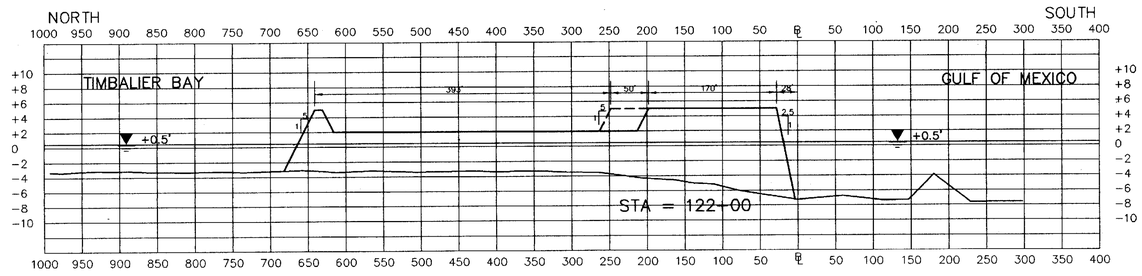
571-96: XSEC-07.DWG

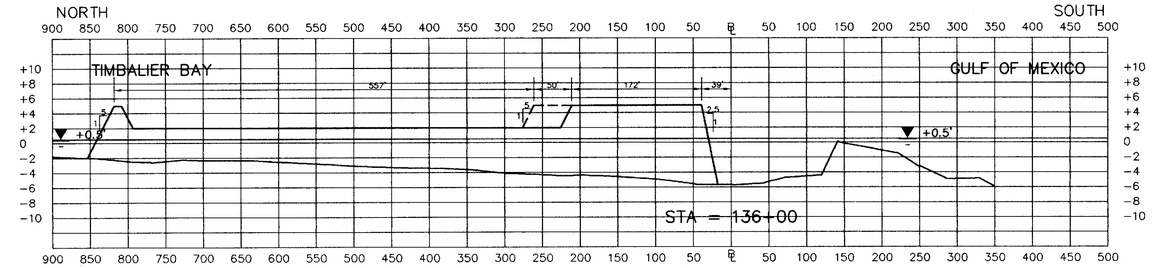
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

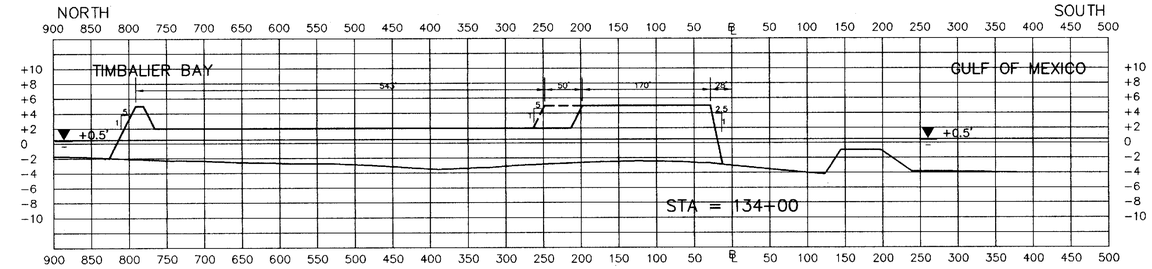


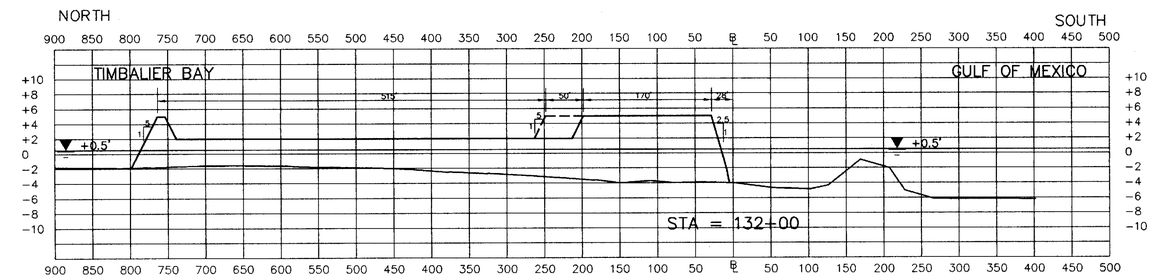


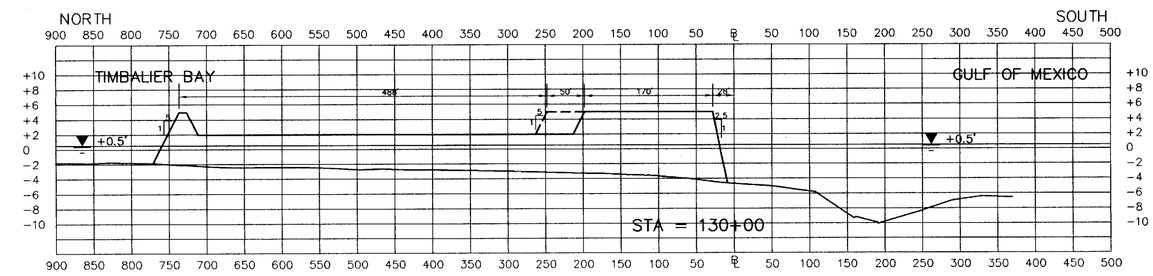












NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

REVISIONS:	
DATE:	REMARKS:

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PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

DATE: 02/23/98

SCALE: AS SHOWN

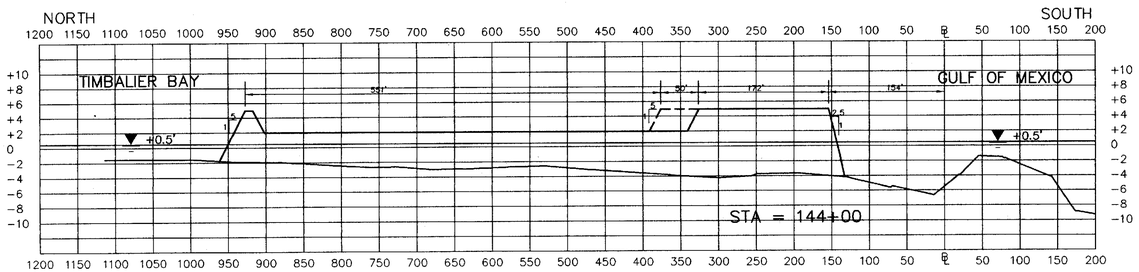
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

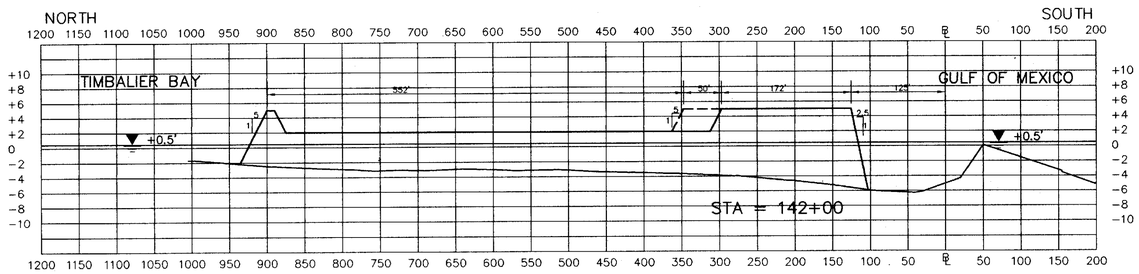
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

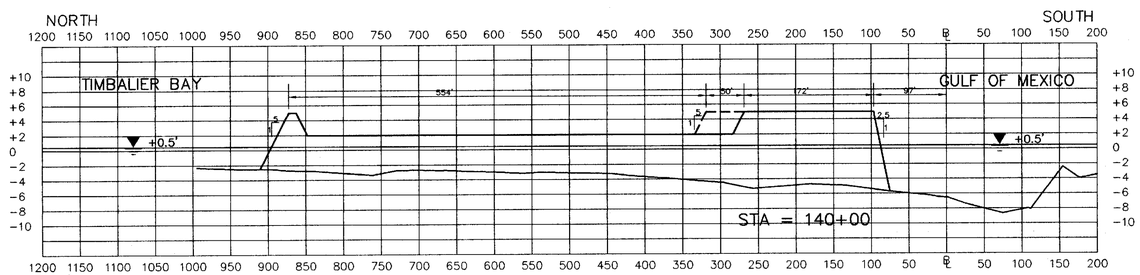
SHEET NO. 22 OF 24

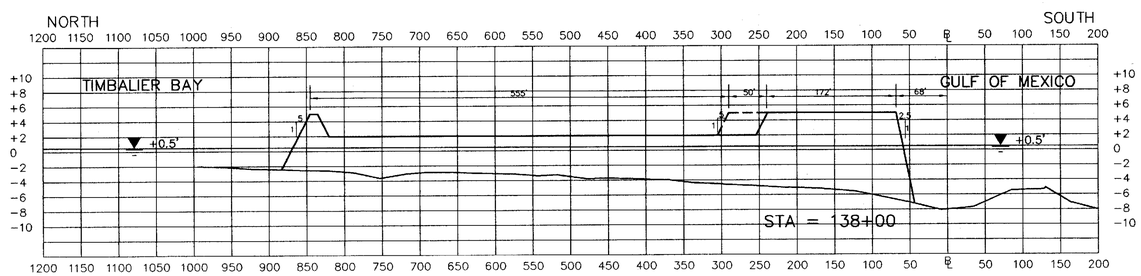
571-96: XSEC-08.DWG

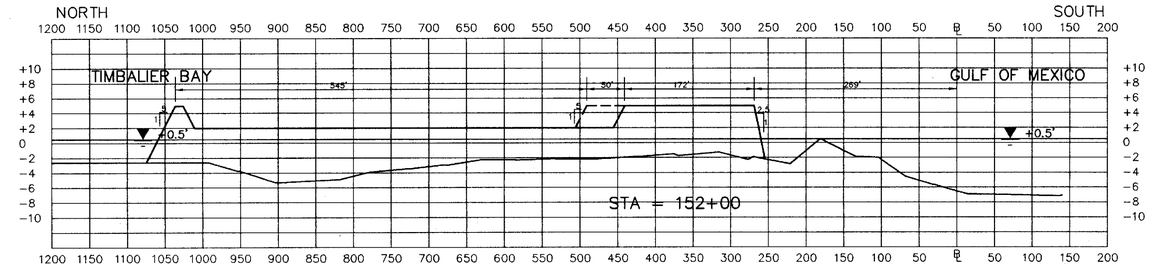
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE

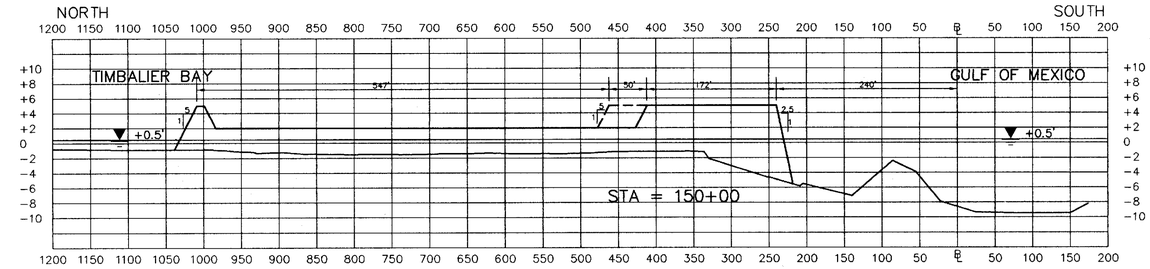


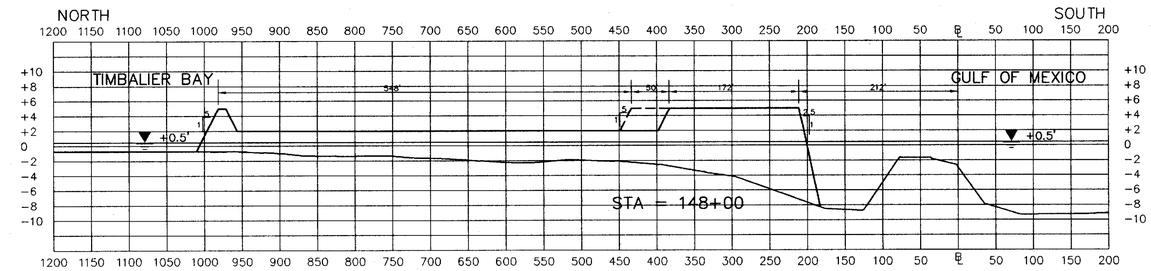


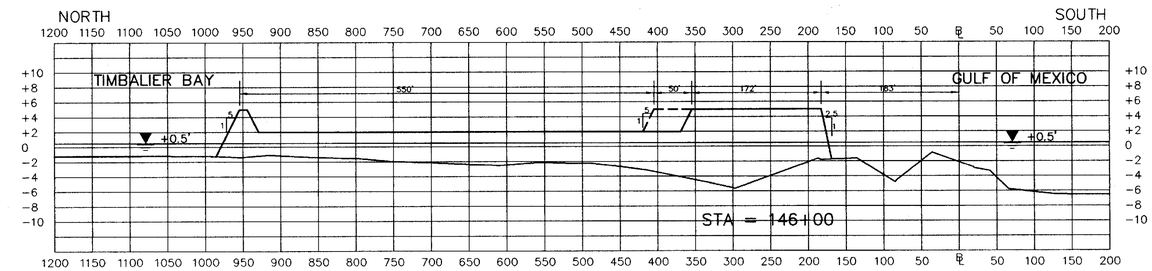












NOTES:

1. CROSS-SECTIONS SHOWN LOOKING EASTERLY
2. ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

——————— PROPOSAL A

- - - - - - - - PROPOSAL B AND C

REVISIONS:	
DATE:	REMARKS:

STAMP: STATE OF LOUISIANA — MARCO J. PICCIOLA II — REG. No. 12171 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

PICCIOLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

DATE: 02/23/98

SCALE: AS SHOWN

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

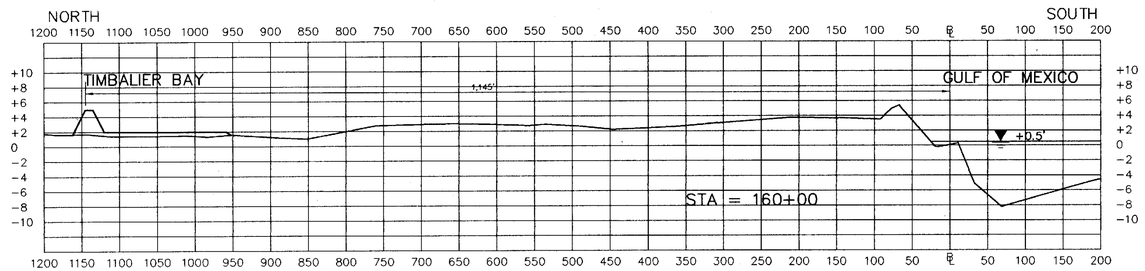
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

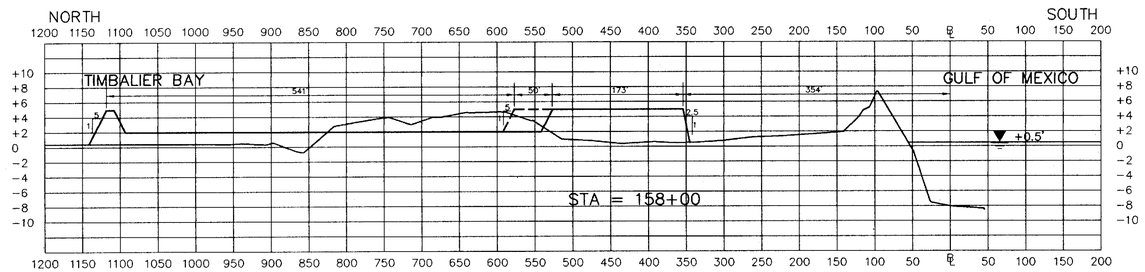
SHEET NO. 23 OF 24

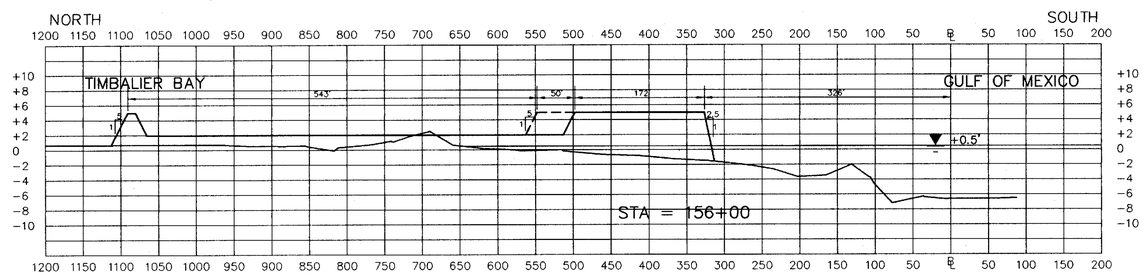
DESIGNED BY:	DRAWN BY:	CHECKED BY:
SAG	CGL	MJR

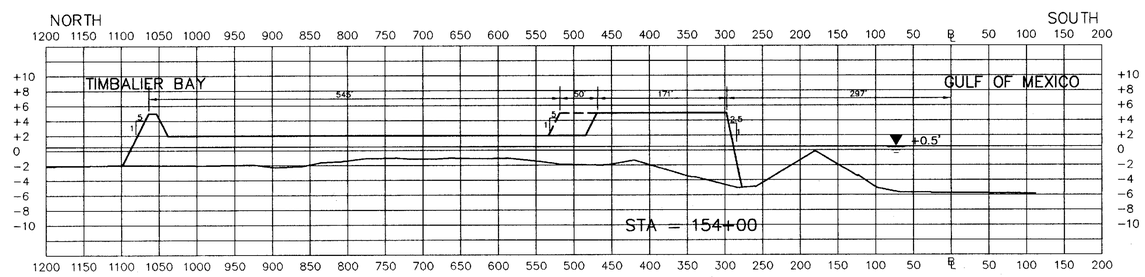
571-96: XSEC-09.DWG

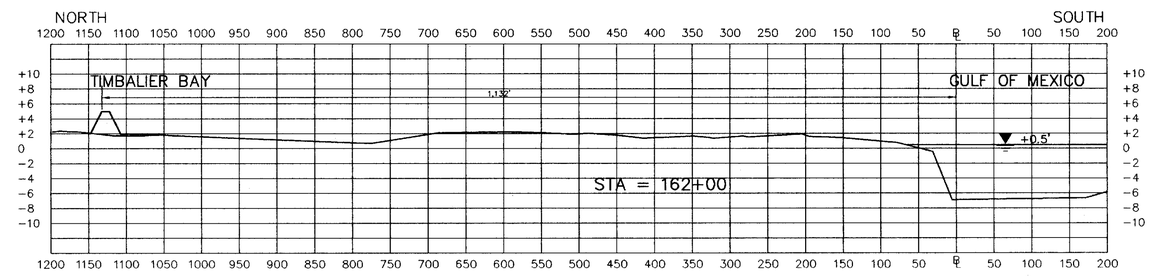
FEDERAL PROJECT NOS.	STATE PROJECT NOS.	ENGINEERING CONTRACT NO.	PARISH
XTE-67 XTE-45-67B	TE-25 TE-30	435CW-97-10	LAFOURCHE











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——————— PROPOSAL A

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DESIGNED BY: SAG | DRAWN BY: CGL | CHECKED BY: MJR

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DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

SHEET NO. 24 OF 24

571-98: XSEC-10.DWG