

**US Army Corps
of Engineers**
New Orleans District

LAKE PONCHARTRAIN, LOUISIANA AND VICINITY

CHALMETTE AREA PLAN

BAYOU DUPRE CONTROL STRUCTURE

PERIODIC INSPECTION REPORT NO. 7

29 APRIL 1993

CEMRC-PE-G (CELMN-ED-DG/24 Feb 94) (11-2-240a) 1st End
Bragg/ghb/5893
SUBJECT: Bayou Dupre Control Structure, Periodic Inspection
Report No. 7

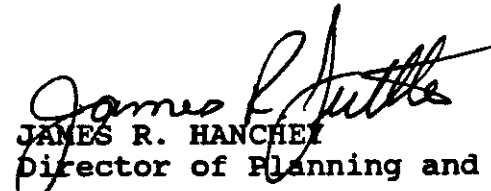
CDR, Lower Mississippi Valley Division, Vicksburg, MS 39181-0080
9 MAY '94

For Commander, New Orleans District, ATTN: CELMN-ED-DG

The enclosed periodic inspection report is approved.

FOR THE COMMANDER:

Encl
wd 2 cys

sg

JAMES R. HANCHEY
Director of Planning and Engineering

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Director of Planning and Engineering



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF:

CELMN-ED-DG

24 February 1994

MEMORANDUM FOR Commander, Lower Mississippi Valley Division,
ATTN: CELMV-ED-G

SUBJECT: Bayou Dupre Control Structure, Periodic Inspection
Report No. 7

Subject report is submitted herewith for your approval.

FOR THE COMMANDER:

1 Encl (6 cys)
as


W. EUGENE TICKNER
Chief, Engineering Division

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY

CHALMETTE AREA PLAN

BAYOU DUPRE CONTROL STRUCTURE

PERIODIC INSPECTION REPORT NO. 7

29 APRIL 1993

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS

CORPS OF ENGINEERS

NEW ORLEANS, LOUISIANA

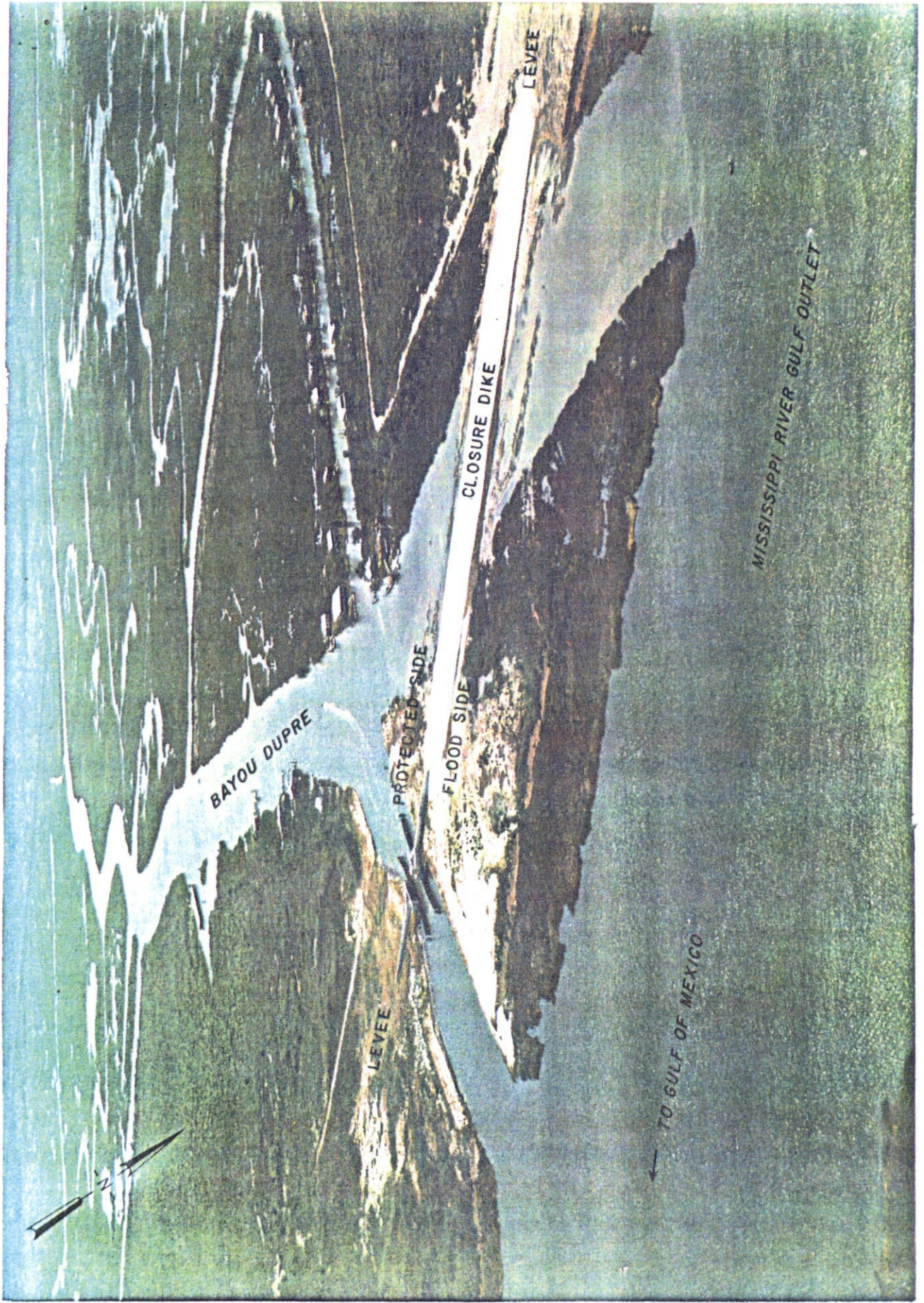


PHOTO TAKEN 27 SEPTEMBER 1974

BAYOU DUPRE CONTROL STRUCTURE

SUMMARY

The Bayou Dupre Control Structure was inspected on 29 April 1993 by representatives of the New Orleans District, Lower Mississippi Valley Division, Louisiana Department of Transportation and Lake Borgne Basin Levee District. There was missing sealant material and minor concrete cracks but overall the structure is in good condition.

BAYOU DUPRE CONTROL STRUCTURE

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SECTION I - INTRODUCTION

1-01 Authority. Authority is provided by ER 1110-2-100, dated 8 April 1988, subject "Periodic Inspections and Continuing Evaluation of Completed Civil Works Structures".

1-02 Purpose and Scope. The results and conclusions of the inspection and evaluation for assuring the structural integrity and operational adequacy of the structure are presented herein.

1-03 Safety. The inspection was performed in accordance with the pertinent provisions of the "General Safety Requirements", EM 385-1-1, dated 1 April 1981, revised October 1984 and other applicable recognized safe practices.

1-04 Datum. All elevations are in feet and refer to the National Geodetic Vertical Datum (N.G.V.D.), formerly Mean Sea Level (M.S.L.).

1-05 Previous Inspections. Past inspections of the Bayou Dupre Control Structure are included in the following reports:

<u>Report No.</u>	<u>Date of Inspection</u>
1	22 Feb 74
2	12 Mar 80
3	1 Dec 83
4	25 Jun 86
5	8 Apr 87
6	25 Apr 90

SECTION II - PROJECT DESCRIPTION AND BACKGROUND

2-01 General. The Bayou Dupre Control Structure is a feature of the Chalmette Area plan of the Lake Pontchartrain, Louisiana, and vicinity hurricane protection project authorized by Public Law 298, 89th Congress, 1st Session, approved 27 October 1965.

The structure is located in St. Bernard Parish, Louisiana, near the intersection of Bayou Dupre and the MRGO at station 707+57.90 on the MRGO baseline. The site is accessible only by boat, via the MRGO from the intersection of Paris Road and the MRGO or via Bayou Dupre from Violet, Louisiana.

The structure was constructed under contract No. DACW29-72-C-0159, awarded in May 1972 to Williams-McWilliams Co. It was completed in July 1974 and turned over to local interest for maintenance and operation.

The description of the structure, historical and other general background information, are included in report No. 1 which also contains selected construction drawings illustrating typical sections and details. A location map is included in this report (Plate 1). This report is supplementary to previously numbered reports.

SECTION III - OPERATION AND MAINTENANCE DATA

3-01 Operation and Maintenance Problems. There have been no accidents nor major operating problems since the previous periodic inspection of the structure.

3-02 Actions on Deficiencies from Last Inspection. The following proposed remedial work included in the last inspection report has been accomplished by the Lake Borgne Basin Levee District (LBBLD) under there routine periodic maintenance program:

a. The expansion joints, minor spalls and shrinkage cracks were monitored for further deterioration.

b. The thin sheet of concrete which has separated off the wall near the east gate hinge, was monitored for continued separation.

c. The rusted portion of the metal hatch on top of the east gate monolith was cleaned and painted and the concrete repaired.

d. The differential settlements between the T-wall monoliths, T-wall and concrete sheet pile wall, and T-wall and structure monolith, causing differential movement at the expansion joint, were monitored for continued movement.

e. Wood blocking was installed to hold the expansion joint material in place at the gap on top of the T-type floodwall and structure monolith on the east and west sides.

f. The spalled area at the joint of the concrete sheet pile, shown in Photo No.11 of the last inspection report, was repaired.

SECTION IV - REVIEW OF DESIGN AND ANALYSIS OF INSTRUMENTATION

4-01 Review of Design. The criteria used in the original design is equal to or more conservative than current design criteria. The present loads on the structure do not exceed design load conditions. Since the criteria and loading conditions have not changed, a detailed review of the original design is not warranted.

4-02 Analysis of Instrumentation Data. The FY-92 instrumentation data denotes no appreciable settlement or scour at the structure. The FY-93 and FY-94 data is currently being evaluated by NOD technical personnel. Their evaluation will be included as an amendment to this report at a later date.

SECTION V - INSPECTION

5-01 Inspection Team. The field inspection of the Bayou Dupre Control Structure was conducted on 29 April 1993 by the following personnel from the New Orleans District(NOD), Lower Mississippi Valley Division(LMVD), Louisiana Department of Transportation and Development(LADOTD) and Lake Borgne Basin Levee District(LBBLD):

NOD

Johnny Drummond	Gen Engr Sec
Dan Bradley	Gen Engr Sec(Electrical)
Dennis Strecker	Gen Engr Sec(Mechanical)
Mohan Desai	Struc Des Sec
Soheila Holley	F & M Br(Materials)
Roberto Estrada	F & M Br(Structures)
Jay Combe	H & H Br
Colette Bozant	O & R Div

LMVD

Larry Cook	Water Control Br
------------	------------------

LDOTD

Connie Standige

LBBLD

Daniel Caluda

5-02 Orientation. Prior to inspecting the structure, the inspection team gave a brief orientation on the following features of the project: Structural, foundation and soils, hydraulic and hydrologic, instrumentation, operations and maintenance and the plan for accomplishing the inspection.

5-03 Observations. The overall condition of the structure was good. The structure was not dewatered; therefore, all observations were limited above the water elevation. Prior to closure of the gates, the inside and outside gate bay staffs indicated stage readings of 1.85 feet NGVD. After the gate was closed, the inside stage was about 2.3 feet and the outside stage about 2.0 feet NGVD. The following observations were noted by the inspection team:

a. The condition of the gate bay structure and gate leaves were excellent. The east and west concrete sheetpile walls are still settling.

b. Except for some minor weathering effect, the condition of the hand railing was excellent.

c. The concrete sheetpile on the west side is separated away from the T-wall toward the west and creating a gap where there is no sealant left between the joint. (See Photos 1 and 2).

d. The expansion joint between the concrete sheetpile and the T-wall on the east side is in good condition but vegetation was noted in the joint sealant. (See Photo 3).

e. There are small spalls on the top surface of gatebay monoliths and on the channel walls on both east and west sides. (See Photos 4,5 and 6).

f. There are hairline cracks on top of gatebay monoliths and T-walls on both west and east sides. (See Photos 7 and 8).

g. A small diagonal crack was observed on the west side near the edge of the gatebay structure and handrail.

(See Photo 9).

h. There is efflorescence on the channel walls and on both west and east sides of the gatebay structures. (See Photo 10).

i. The gate was closed and all mechanical and electrical systems were in good operating condition.



PHOTO 1 - Separation of concrete sheetpile
from the T-wall on west side



PHOTO 2 - Separation of concrete sheetpile
from the T-wall on the west side



PHOTO 3 - Vegetation in joint between concrete sheetpile and T-wall on the east side



PHOTO 4 - Typical small spalls on top surface of gatebay monoliths and channel walls on both east and west sides

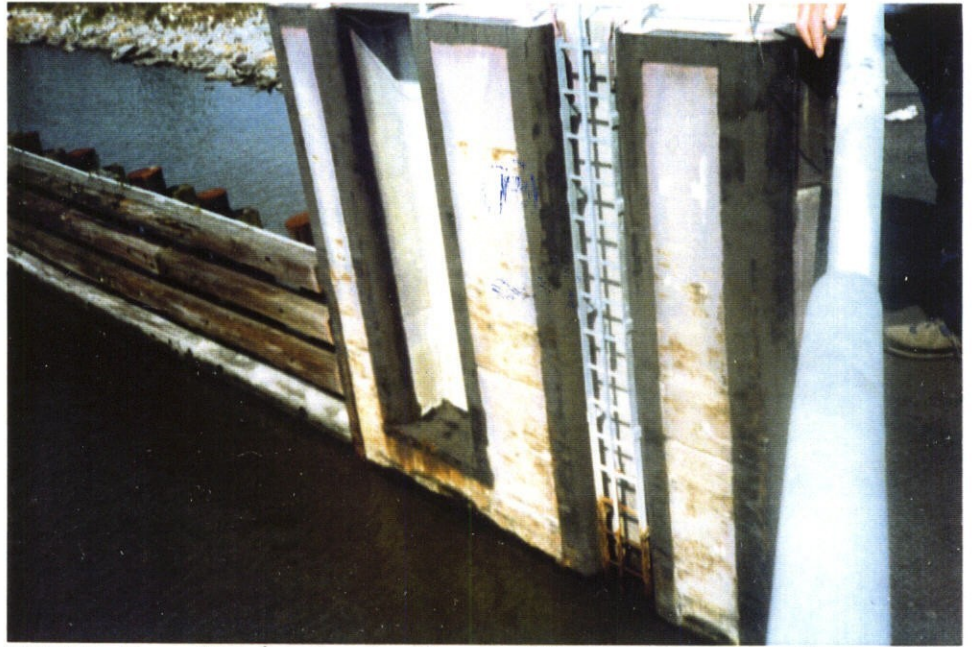


PHOTO 5 - Typical small spalls on top surface of gatebay monoliths and channel walls on both east and west sides

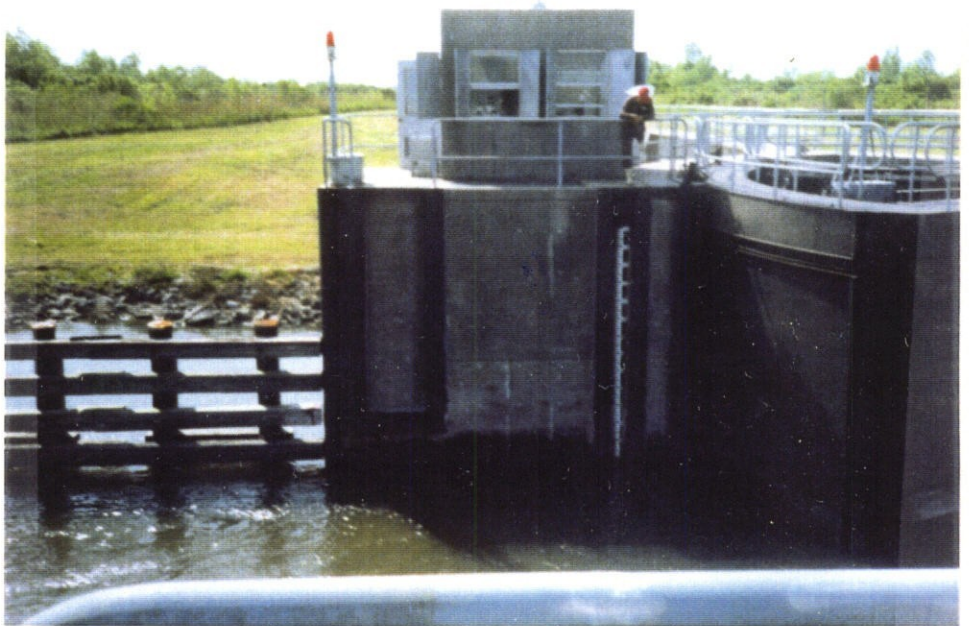


PHOTO 6 - Typical small spalls on top surface of gatebay monoliths and channel walls on both east and west sides

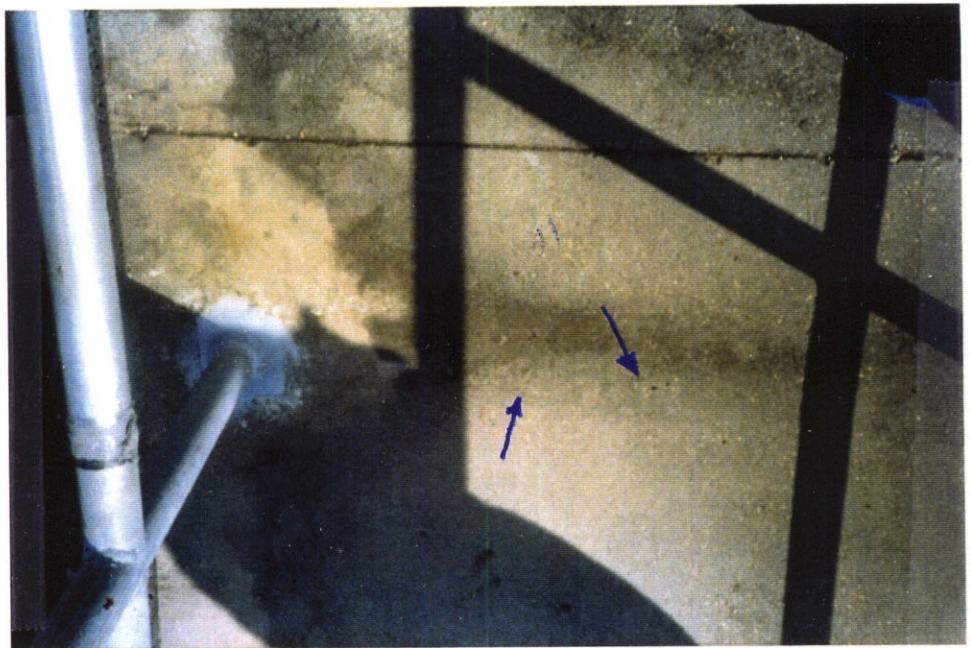


Photo 7 - Typical hairline cracks on top of gatebay monoliths and T-walls on both west and east sides



Photo 8 - Typical hairline cracks on top of gatebay monoliths and T-walls on both west and east sides



Photo 9 - Small diagonal crack on west side near edge of gatebay structure and handrail



Photo 10 - Efflorescence on channel walls and on both west and east sides of the gatebay structures

SECTION VI - CONCLUSIONS AND PROPOSED REMEDIAL ACTIONS

6-01 Conclusions. It is concluded that the Bayou Dupre Control Structure is safe, stable and in satisfactory operating condition.

6-02 Remedial Actions. The following remedial actions will be accomplished by LBBLD under their routine periodic maintenance program

a. The east and west concrete sheetpile walls will be monitored in future periodic inspections until the rate of settlement has decreased to a minimum; after that the walls will be capped.

b. Missing joint sealant will be replaced and vegetation removed.

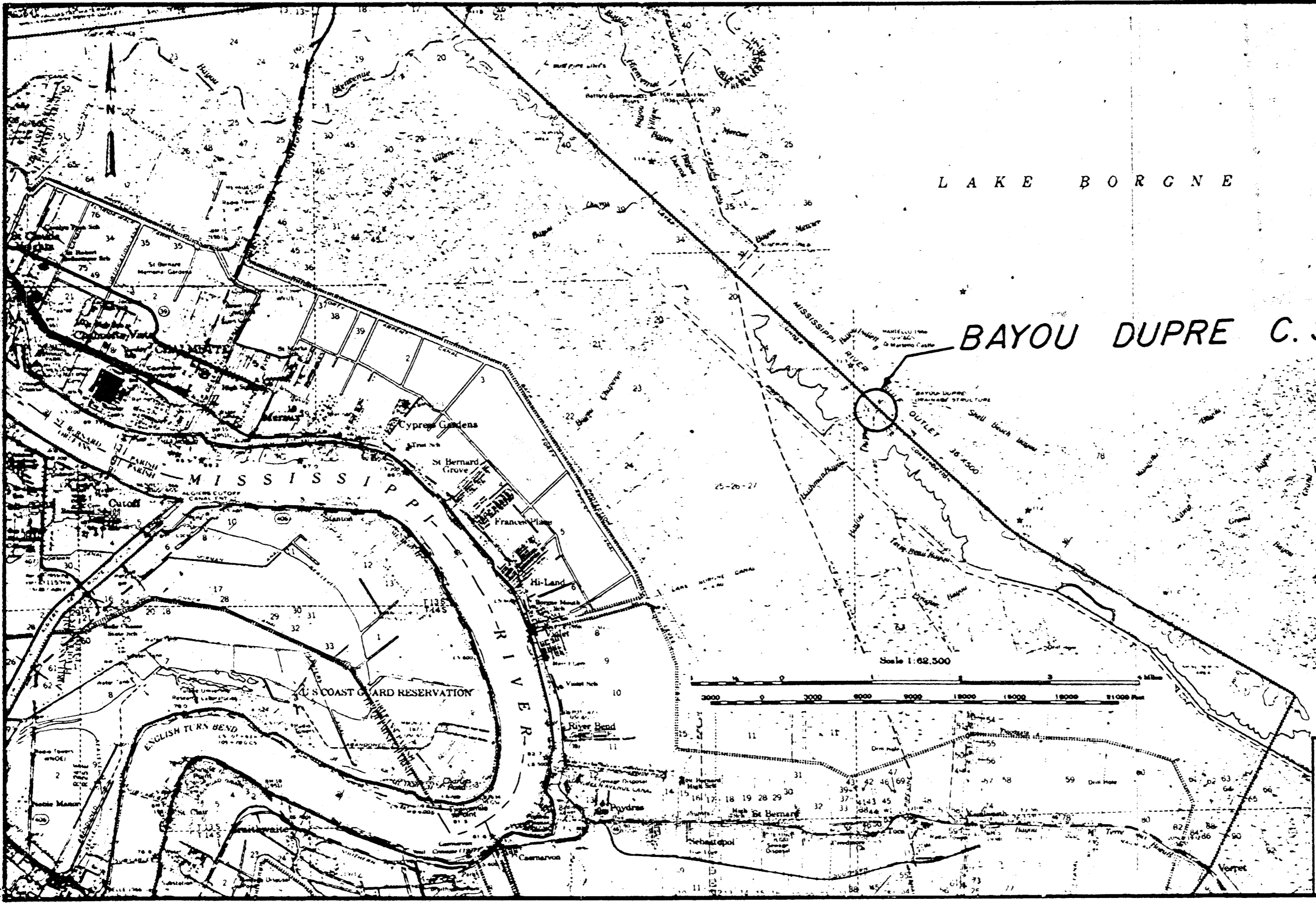
c. Small concrete spalls, hairline cracks and efflorescence will be monitored in future periodic inspections for further deterioration.

6-03 Next Inspection. The next inspection of the Bayou Dupre Control Structure is scheduled in April 1996.

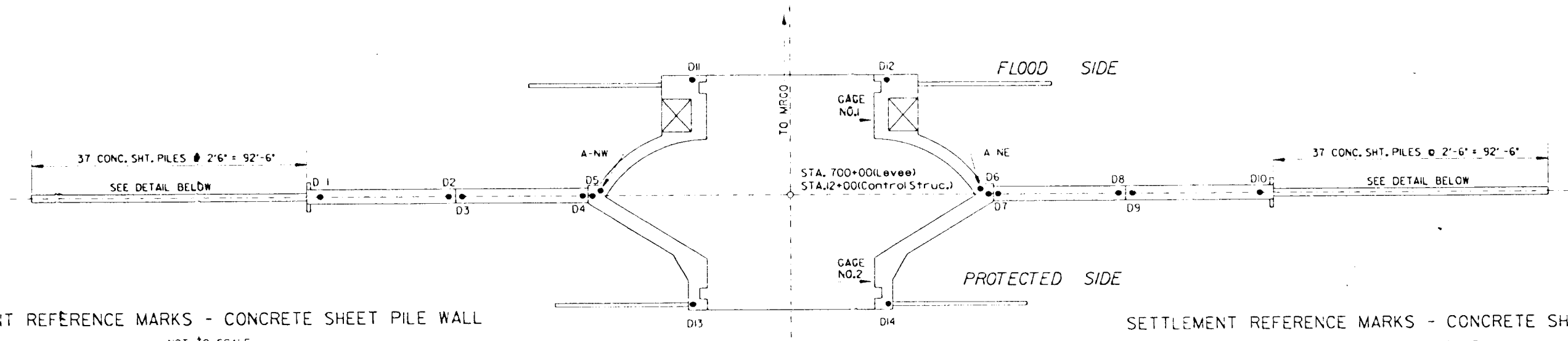
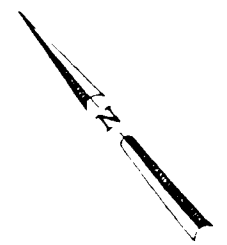
APPENDIX - INSTRUMENTATION PLATES

INSTRUMENTATION PLATES
Bayou Dupre Control Structure

<u>Plate No.</u>	<u>Title</u>
1	Location Map
2	Instrumentation Location
3	Settlement Reference Marks- Plan and Profile
4	Settlement Reference Marks- Plan and Profile Concret - Sheet Pile
5	Settlement Reference Marks- Differential Settlement Chart
6	Settlement Reference Marks- Differential Settlement Chart
7	Settlement Reference Marks- Differential Settlement Chart
8	Wing Wall Range Layout
9	Northwest Wingwall
10	Northeast Wingwall
11	Southwest Wingwall
12	Southeast Wingwall
13	Scour and Overbank Survey
14	Profile Survey
15	Scour Survey
16	Scour Survey
17	Scour Survey
18	Scour Survey
19	Scour Survey
20	Scour Survey
21	Scour Survey
22	Scour Survey
23	Scour Survey
24	Scour Survey

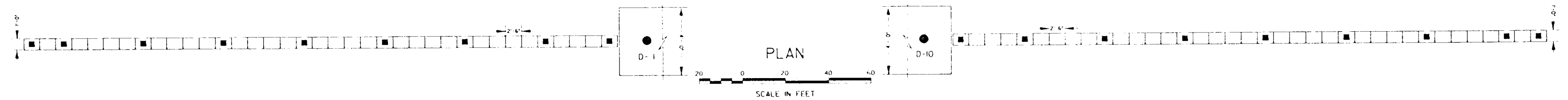


LAKE PONTCHARTRAIN AND VICINITY
 BAYOU DUPRE
 PERIODIC INSPECTION
**LOCATION
 MAP**
 U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
 CORPS OF ENGINEERS
 FILE NO.



SETTLEMENT REFERENCE MARKS - CONCRETE SHEET PILE WALL
NOT TO SCALE

SETTLEMENT REFERENCE MARKS - CONCRETE SHEET PILE WALL
NOT TO SCALE



		DISTANCE TO REFERENCE MARKS (N.G.V.D.)						
NO. OF REFERENCE MARKS		D2-D3	D4-D5	D5-D6	D6-D7	D8-D9	D11-D12	D13-D14
INITIAL DATE		6-7-74	6-7-74	6-7-74	6-7-74	6-7-74	6-7-74	6-7-74
ORIGINAL READINGS (FT)		4.00	4.05	129.96	4.00	4.00	64.17	64.08
DATE OF OBSERVATIONS	2 APRIL 1984	4.04	4.08	---	4.04	4.04	---	---
	10 OCTOBER 1984	4.02	4.08	---	4.04	4.02	---	---
	28 JULY 1986	4.03	4.08	---	4.03	4.03	---	---
	18 FEBRUARY 1987	4.03	4.09	---	4.05	4.04	---	---
	2 MARCH 1988	4.02	4.09	---	4.05	4.02	---	---
	15 DECEMBER 1988	4.03	4.10	---	4.06	4.03	---	---
	15 DECEMBER 1989	4.03	4.07	---	4.05	4.03	---	---
	26 NOVEMBER 1990	4.05	4.10	---	4.06	4.03	---	---
	6 DECEMBER 1991	4.03	4.11	---	4.07	4.02	---	---

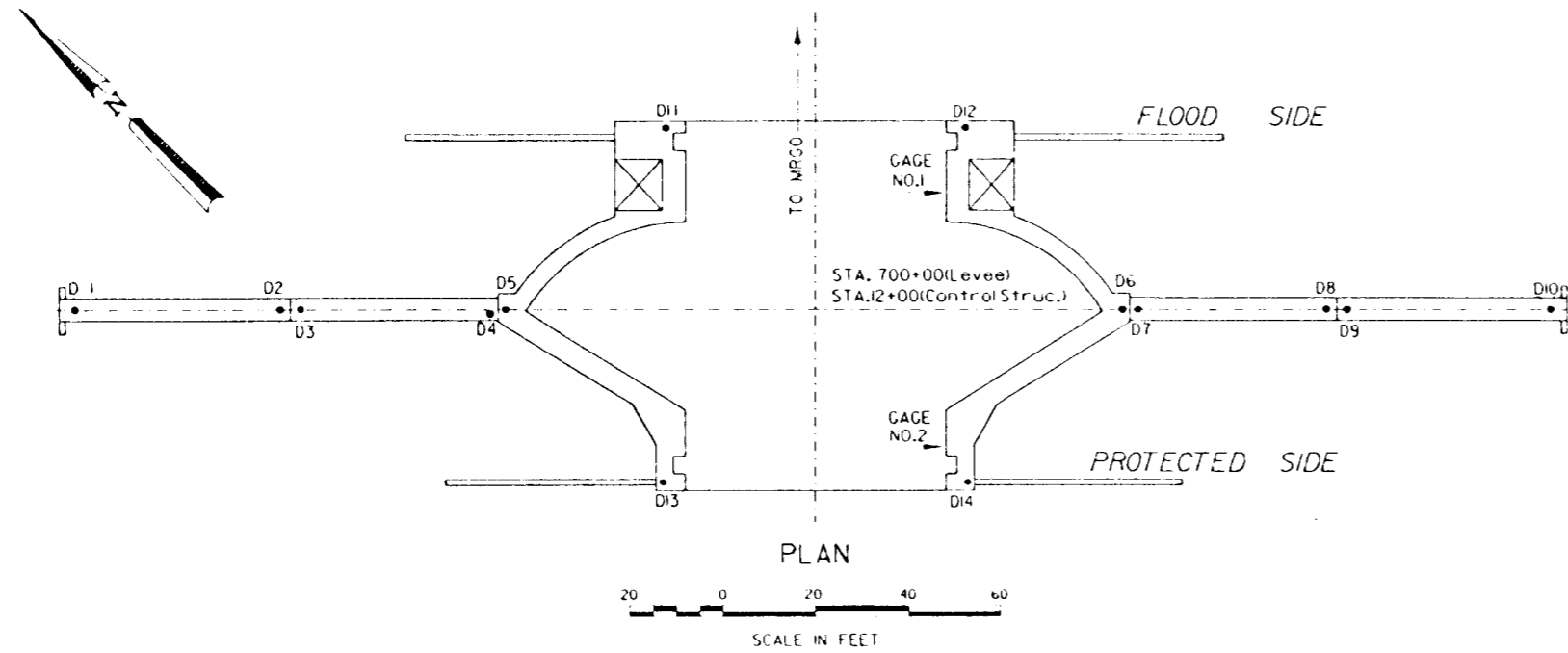
PBM TED Elevation N.G.V.D.
Galvanized pipe, 1.5 inches in diameter, was set in bore hole at a depth of 95 feet. The 1.5 inch diameter pipe was then driven an additional 10.5 feet into strata. PBM is on the east side of Bayou Dupre, south side of the structure, 105 feet from Bayou Dupre and 282 feet from the wall of the structure. The 1.5 inch pipe is protected by 3 inch diameter galvanized pipe with cap and three 1.5 inch guard posts painted yellow.

PBM BD -2 Elevation N.G.V.D.
Galvanized pipe, 1.5 inches in diameter, was set in bore hole at a depth of 95 feet, then driven an additional 10.5 feet into strata. PBM is on the west side of Bayou Dupre and on the south side of the structure, 67 feet from Bayou Dupre and 291 feet from the wall of the structure. The 1.5 inch pipe is protected by 3 inch diameter galvanized pipe with cap and three 1.5 inch guard post painted yellow.

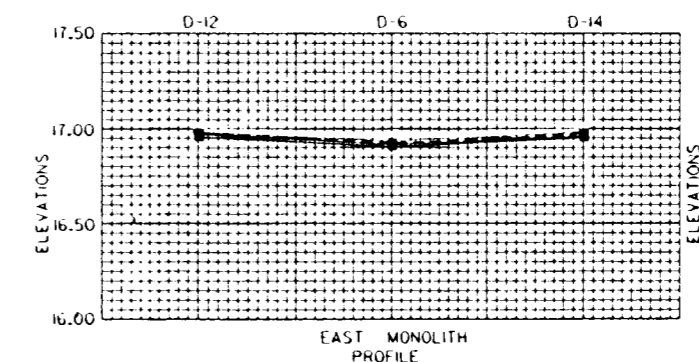
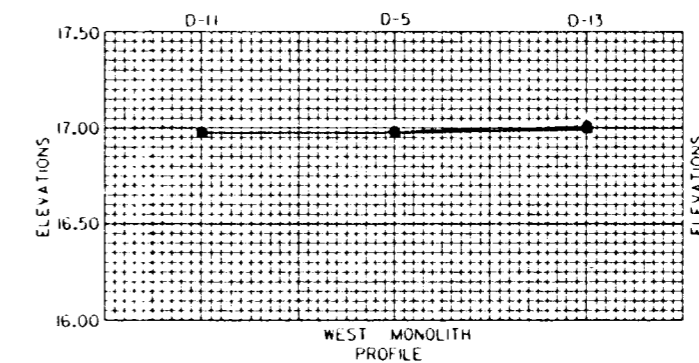
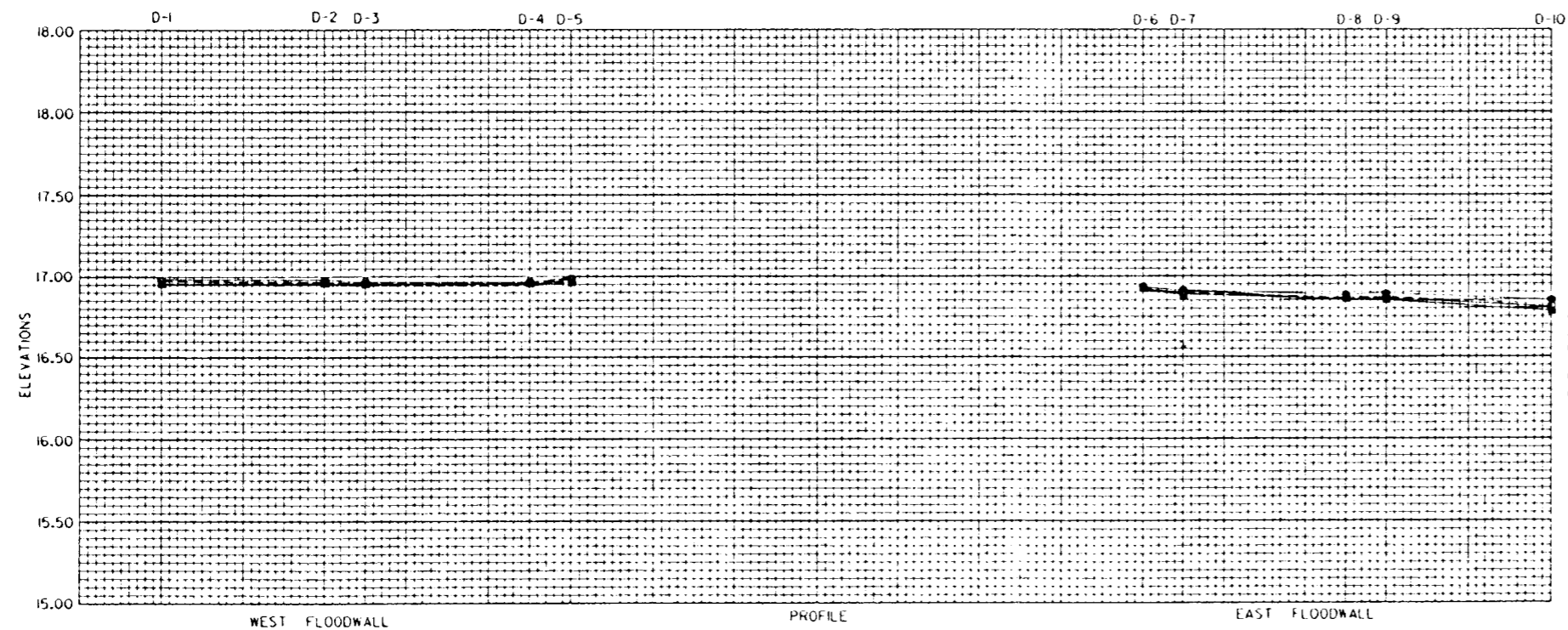
PBM BD-3 Elevation N.G.V.D.
Galvanized pipe, 1.5 inches in diameter, was set in bore hole at a depth of 95 feet then driven an additional 10.5 feet into strata. PBM is on the west side of Bayou Dupre and 128 feet west of Bayou Dupre and 483 feet from the wall of the structure. The 1.5 inch diameter pipe is protected by 3 inch diameter galvanized pipe with cap and three 1.5 inch guard posts painted yellow.

COMPUTER
AIDED
DESIGN
DRAFTING

LAKE PONTCHARTRAIN AND VICINITY
BAYOU DUPRE
PERIODIC INSPECTION
INSTRUMENTATION LOCATION
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
FILE NO.



		SETTLEMENT REFERENCE MARKS														TEMP	GAGE 1	GAGE 2
NO. OF REFERENCE MARKS		D-1	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-12	D-13	D-14			
INITIAL DATE	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	7-20-74	91*	1.6	1.6
ORIGINAL READINGS		17.07	17.04	17.03	17.03	17.07	17.04	17.01	17.03	17.05	17.05	17.07	17.10	17.10	17.09			
18 FEBRUARY 1987		16.96	16.95	16.94	16.94	16.99	16.88	16.83	16.78	16.79	16.70	16.99	16.97	17.01	16.96	46*	0.2	0.2
02 MARCH 1988		16.96	16.96	16.94	16.94	16.99	16.88	16.83	16.78	16.79	16.70	16.99	16.98	17.02	16.98	57*	0.5	0.8
12 DECEMBER 1988		16.94	16.93	16.92	16.92	16.97	16.84	16.79	16.74	16.75	16.65	16.96	16.94	16.99	16.93	47*	2.0	2.4
12 DECEMBER 1989		16.90	16.89	16.88	16.88	16.93	16.82	16.77	16.71	16.72	16.62	16.93	16.93	16.96	16.92	35*	-0.25	0.60
26 NOVEMBER 1990		16.91	16.91	16.90	16.90	16.95	16.82	16.77	16.71	16.71	16.61	16.95	16.97	16.97	16.92	74*	2.1	2.0
06 DECEMBER 1991		16.89	16.89	16.88	16.88	16.93	16.81	16.75	16.69	16.69	16.58	16.93	16.94	16.96	16.90	73*	-0.2	0.4



- LEGEND
- 18 FEB. 1987
 - 02 MAR. 1988
 - △ 12 DEC. 1988
 - ▲ 12 DEC. 1989
 - 26 NOV. 1990
 - 06 DEC. 1991

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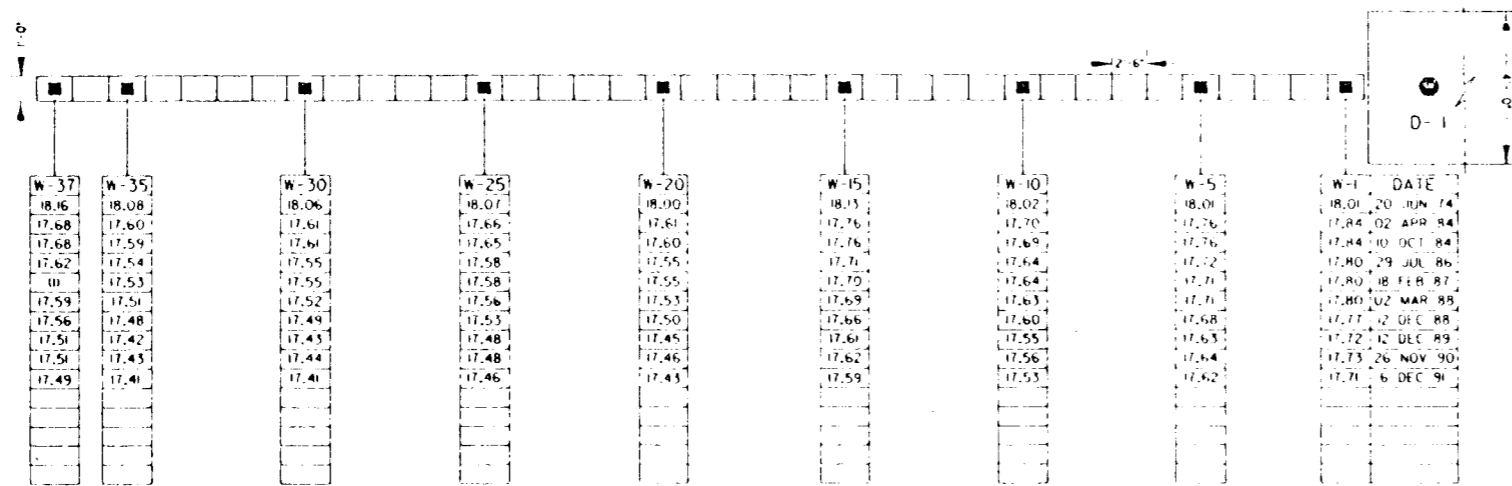
LAKE PONTCHARTRAIN AND VICINITY
BATOU DUPRE
PERIODIC INSPECTION

SETTLEMENT REFERENCE MARKS
PLAN AND PROFILE

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
FILE NO.

SETTLEMENT REFERENCE MARKS - CONCRETE SHEET PILE WALL

37 CONC. SHT. PILES @ 2'-6" = 92'-6"

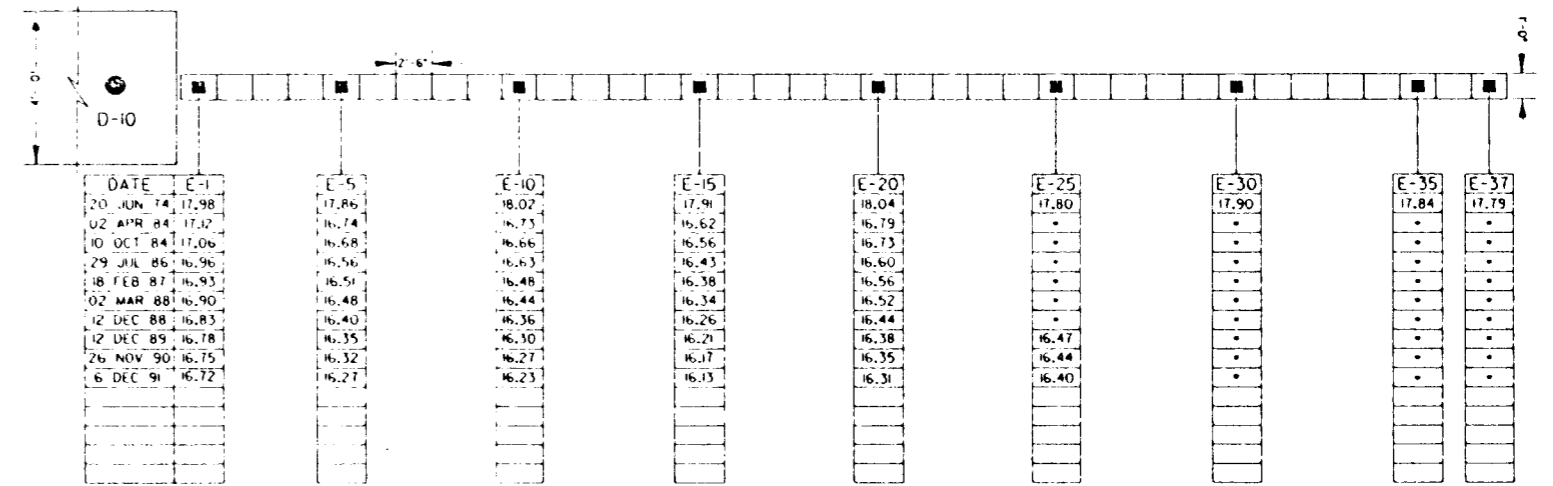


PLAN

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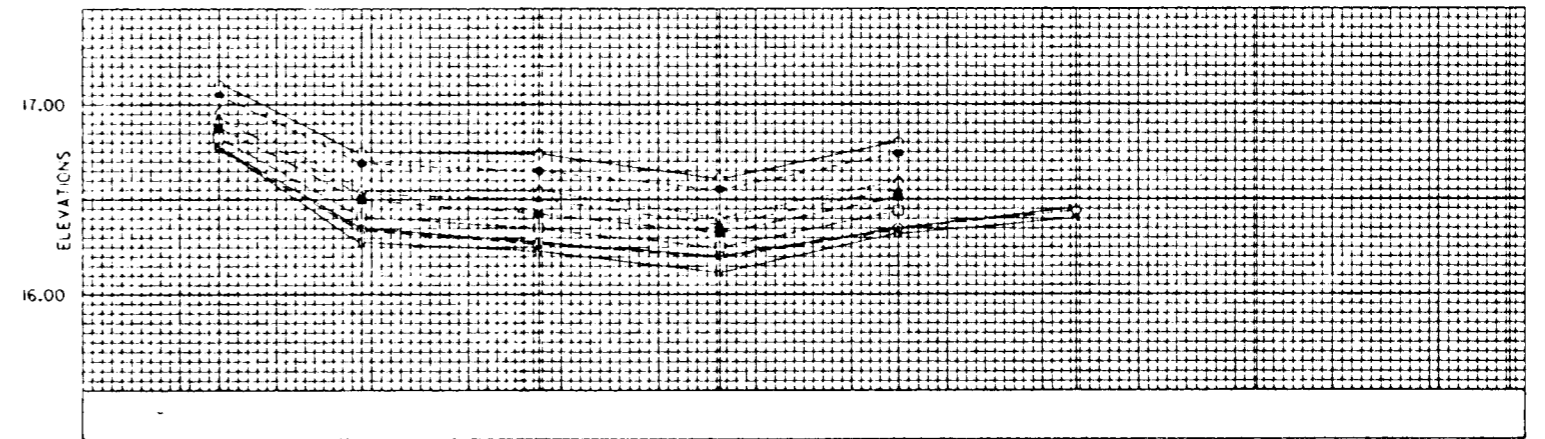
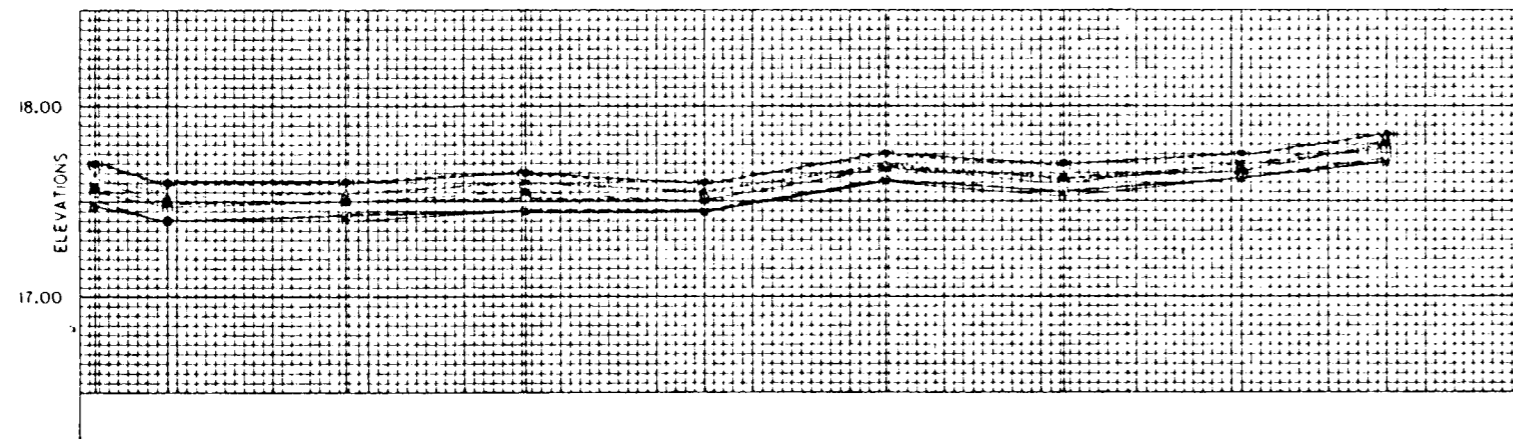
SETTLEMENT REFERENCE MARKS - CONCRETE SHEET PILE WALL

37 CONC. SHT. PILES @ 2'-6" = 92'-6"



NOTE 1

- * Covered by Levee
- (i) Not Surveyed



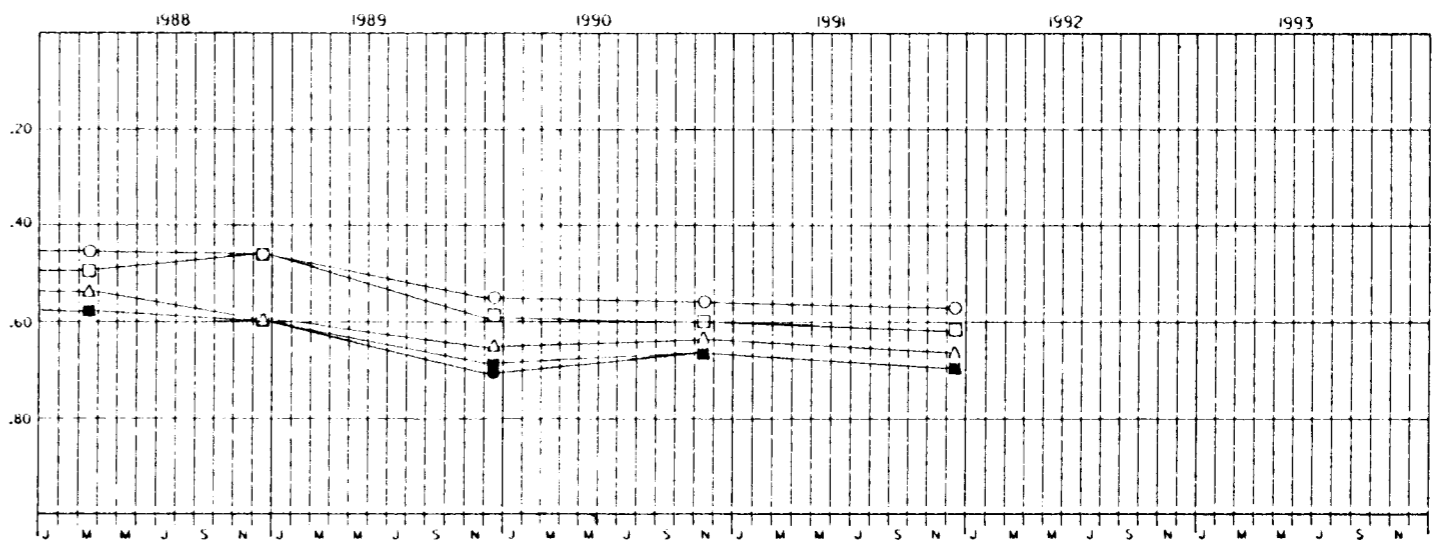
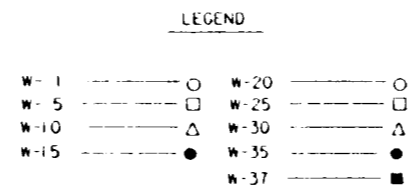
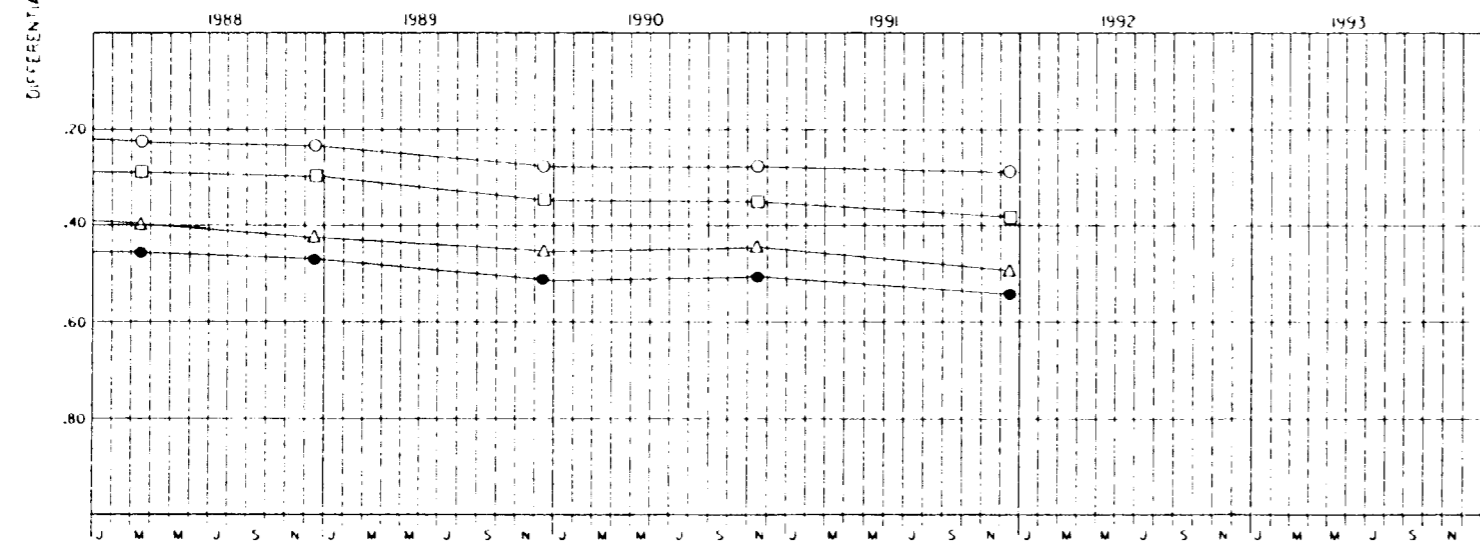
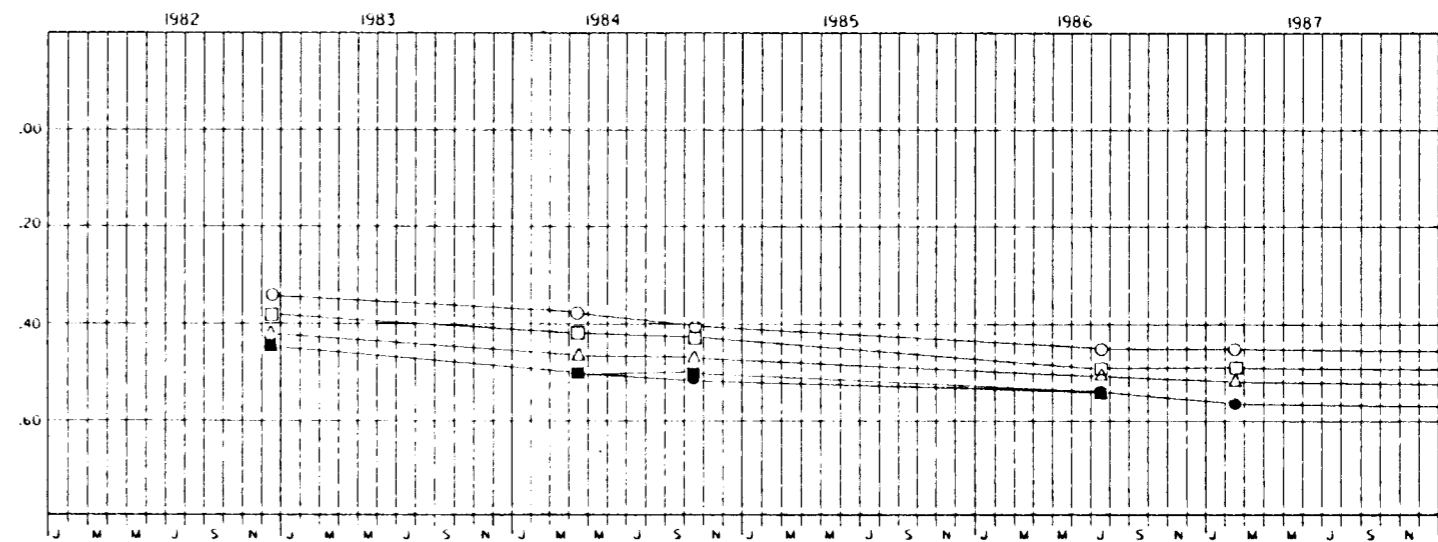
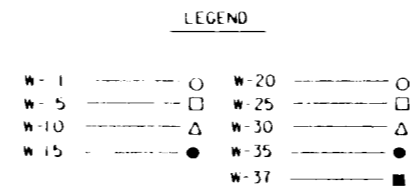
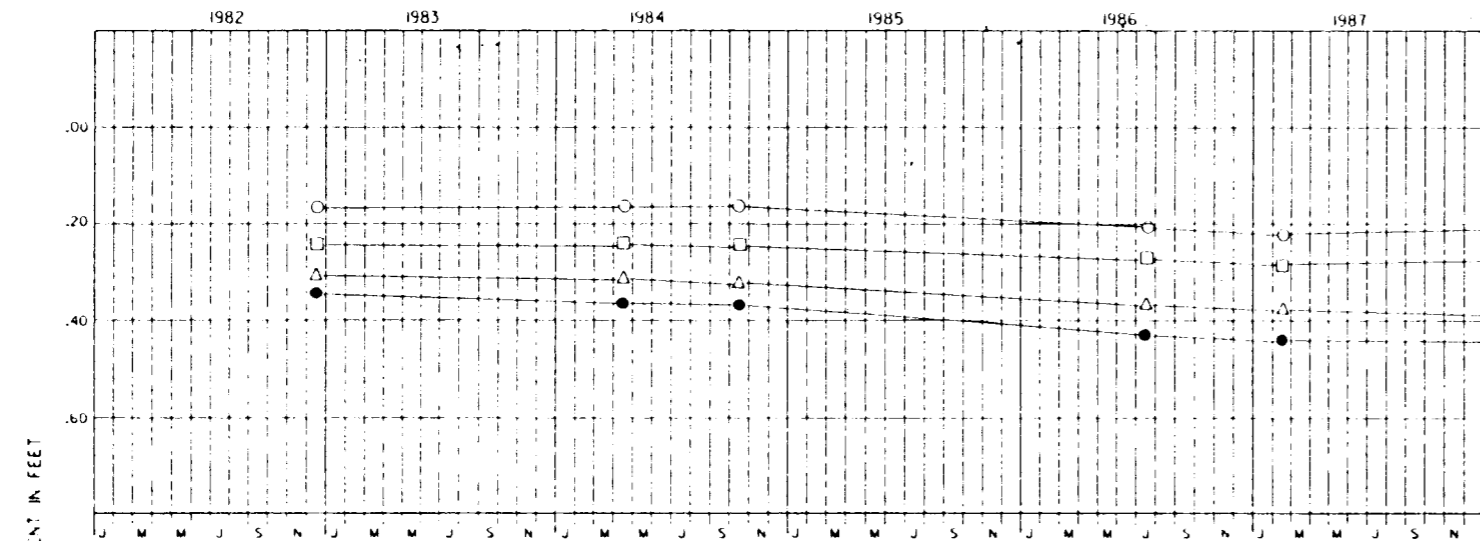
LEGEND

- ——— 02 APR 84
- ——— 10 OCT 84
- △ ——— 29 JUL 86
- ▲ ——— 18 FEB 87
- ——— 02 MAR 88
- ⊞ ——— 12 DEC 88
- x ——— 12 DEC 89
- ——— 26 NOV 90
- N ——— 06 DEC 91

COMPUTER
AIDED
DESIGN
DRAFTING

LAKE PONTCHARTRAIN AND VICINITY
BAYOU DUPRE
PERIODIC INSPECTION
SETTLEMENT REFERENCE MARKS
PLAN AND PROFILE
CONCRETE-SHEET PILE
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
FILE NO.

WEST CONCRETE SHEET PILE WALL



FILL PLACEMENTS NEAR WEST SIDE OF STRUCTURE

STATIONS	CONTRACT NO.	DATES OF WORK
380+70-895+00	80-C-0343	SEP 80 TO MAY 81

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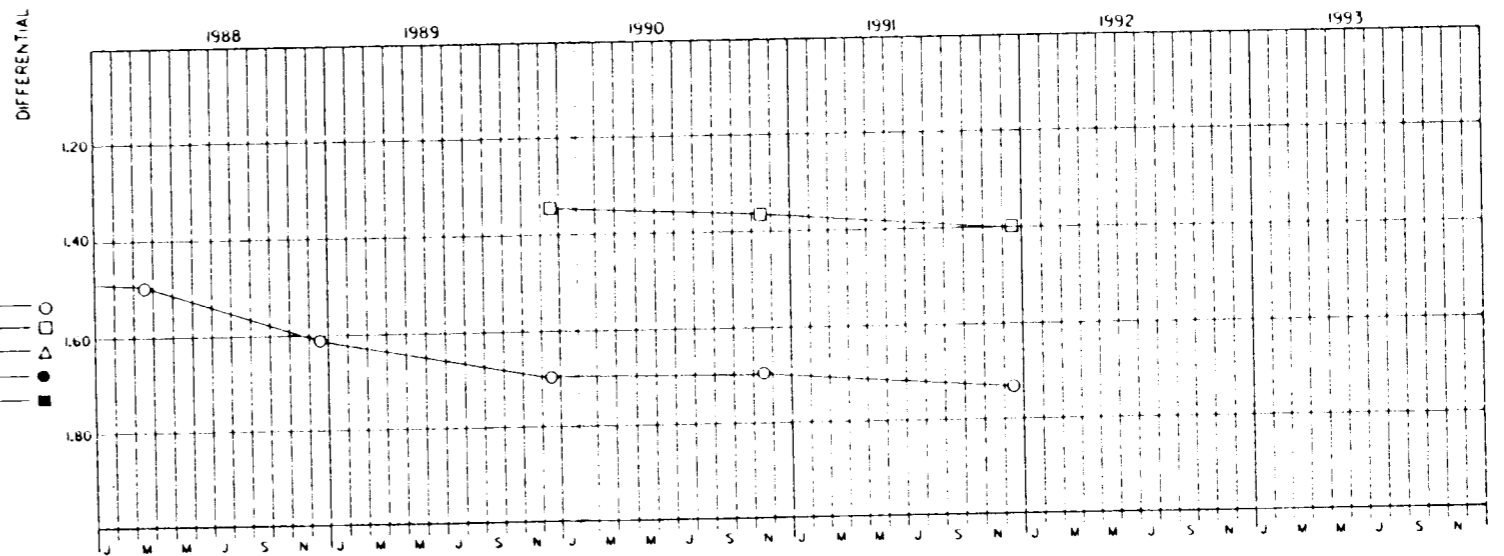
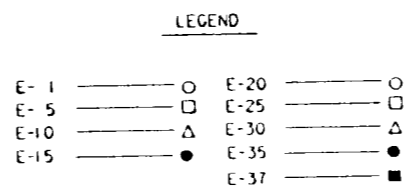
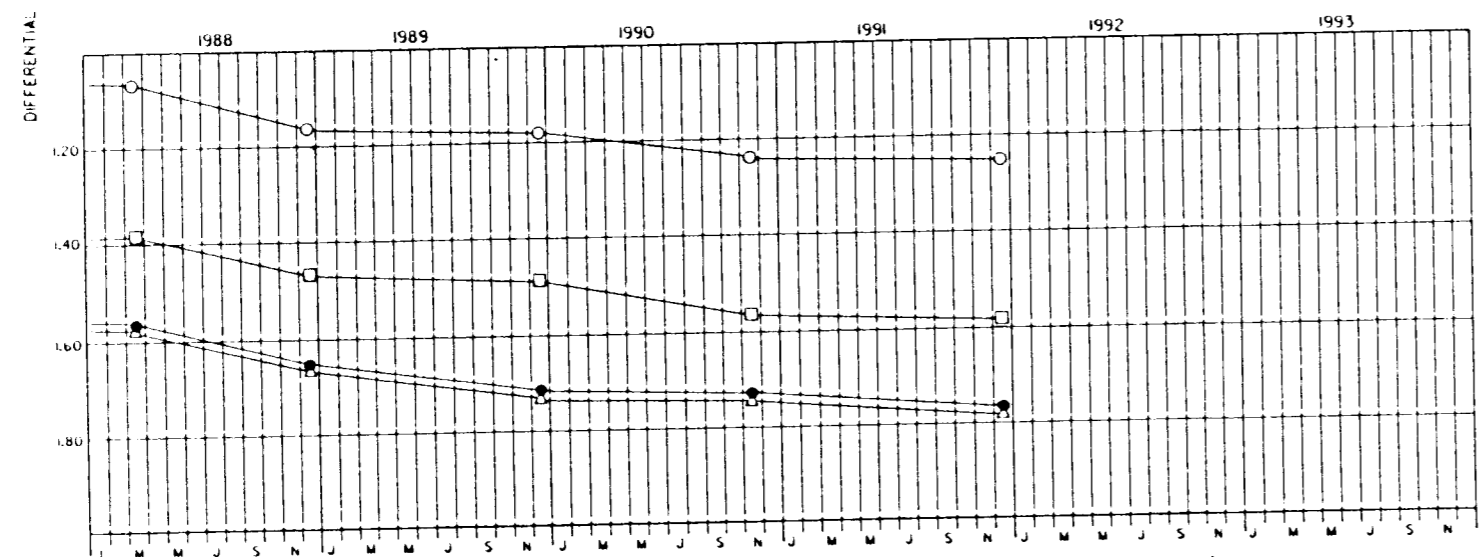
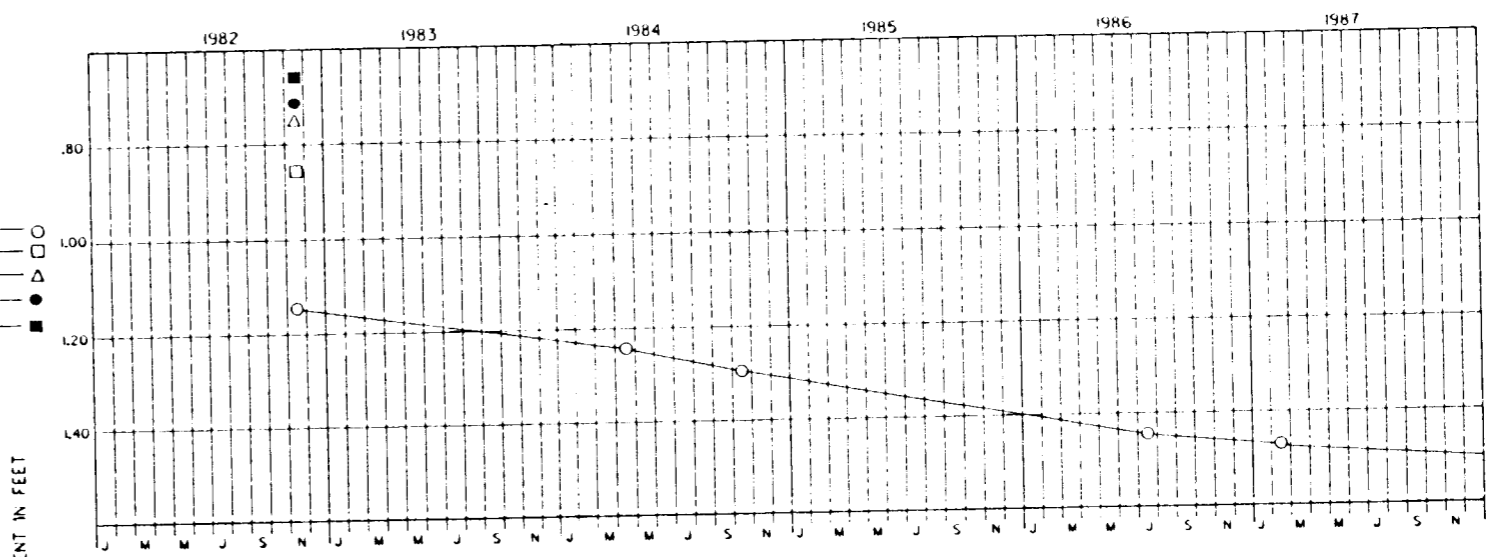
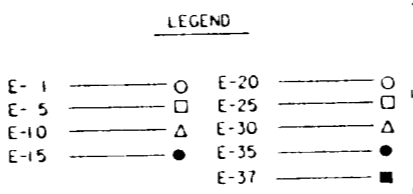
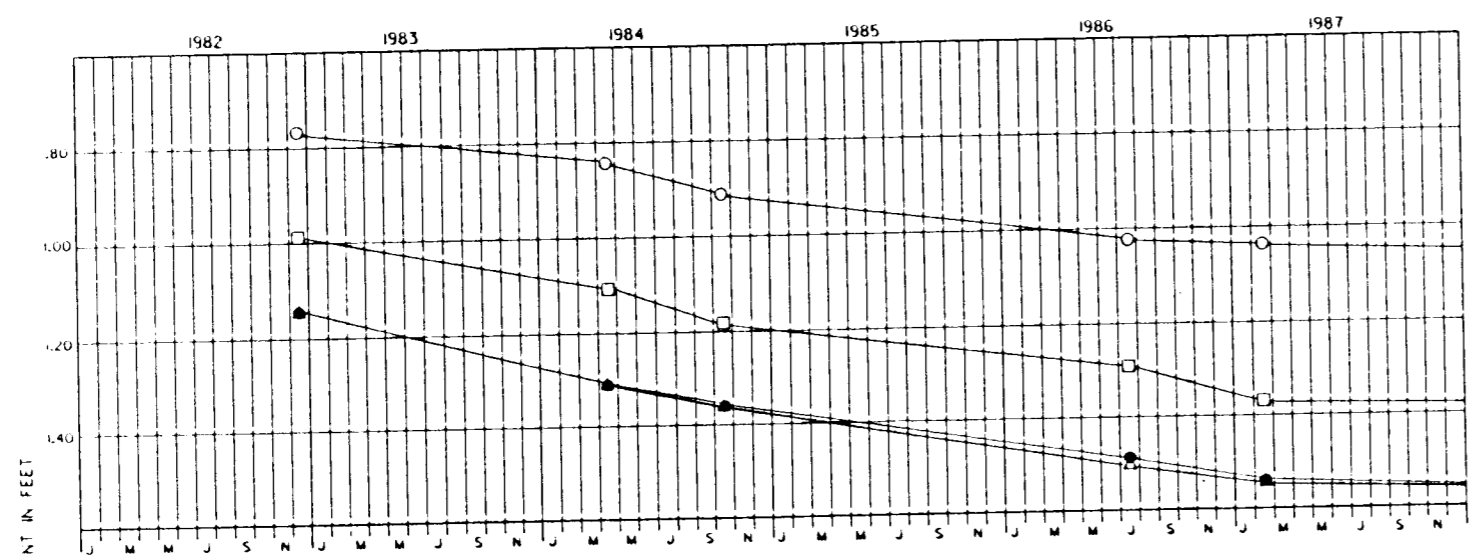
LAKE PONCHARTRAIN AND VICINITY
BAYOU DUPRE
PERIODIC INSPECTION

SETTLEMENT REFERENCE MARKS
DIFFERENTIAL SETTLEMENT CHART

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEER

FILE NO. H-4-26857

EAST CONCRETE SHEET PILE WALL



FILL PLACEMENTS NEAR WEST SIDE OF STRUCTURE

STATIONS	CONTRACT NO.	DATES OF WORK
705+95-945+85	78-C-0274	JUL 78 TO JUL 79
708+00-945+00	83-C-0175	JUN 83 TO NOV. 83

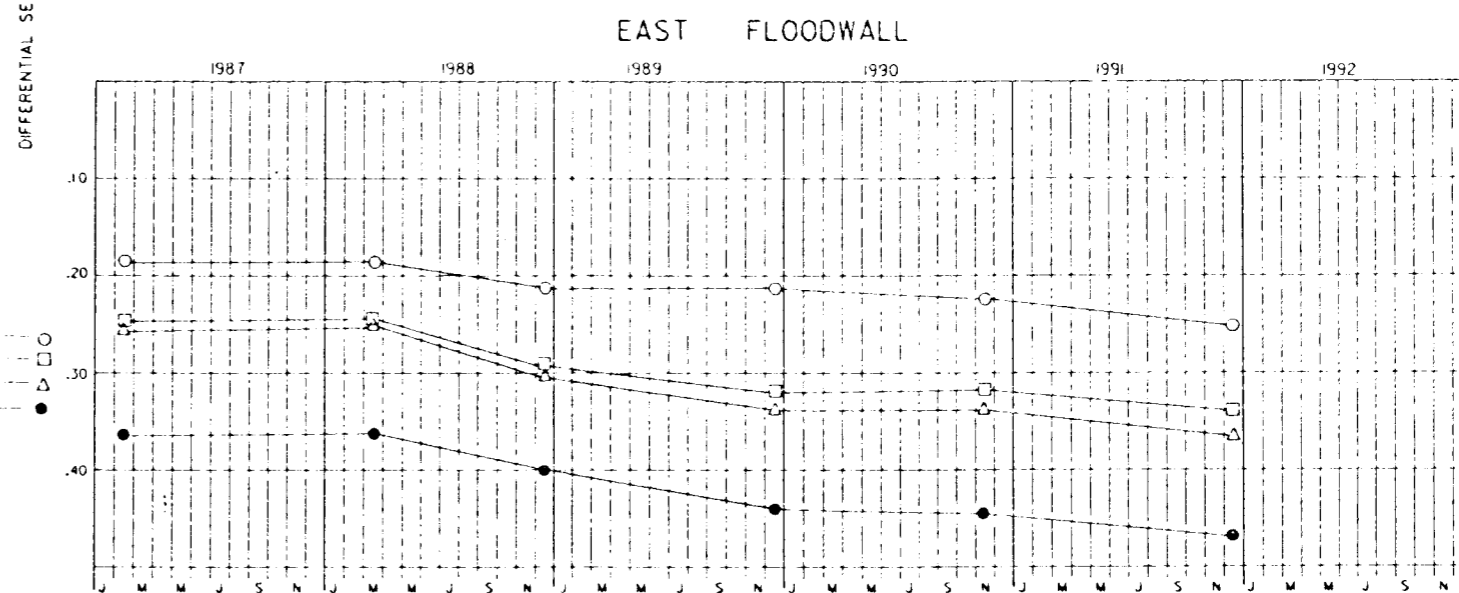
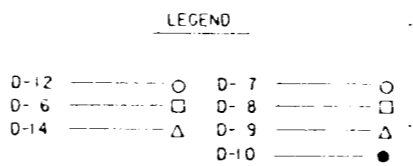
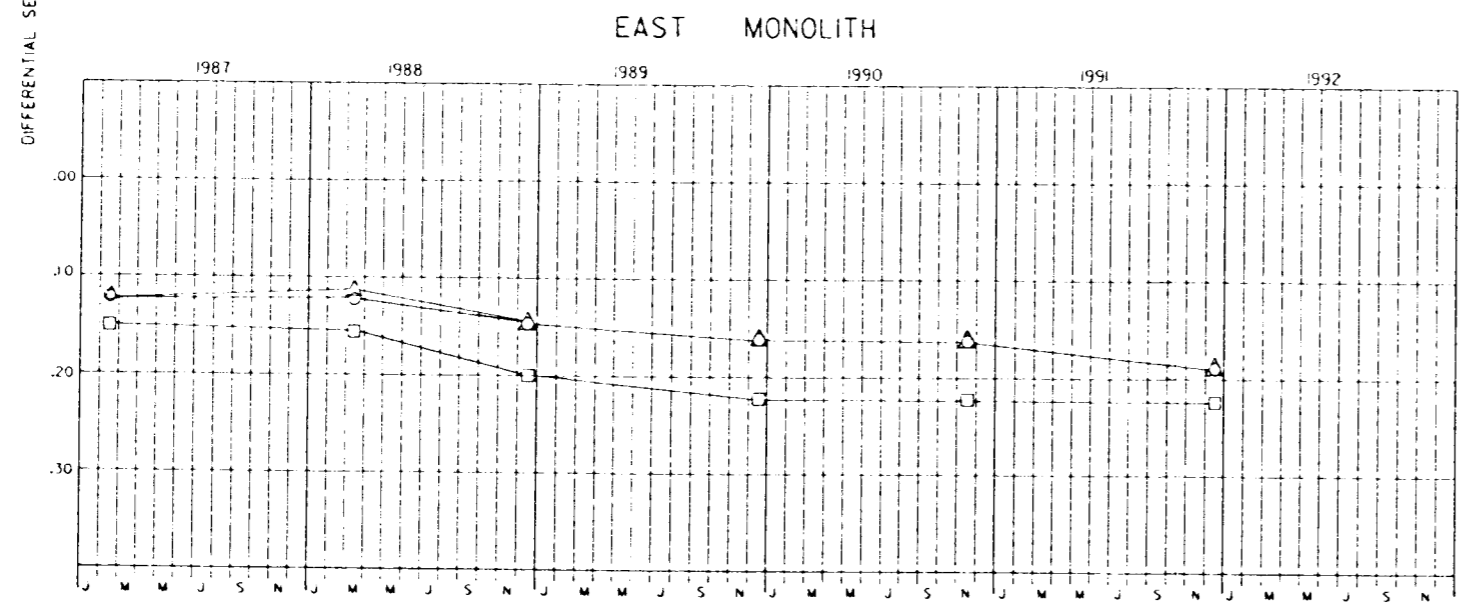
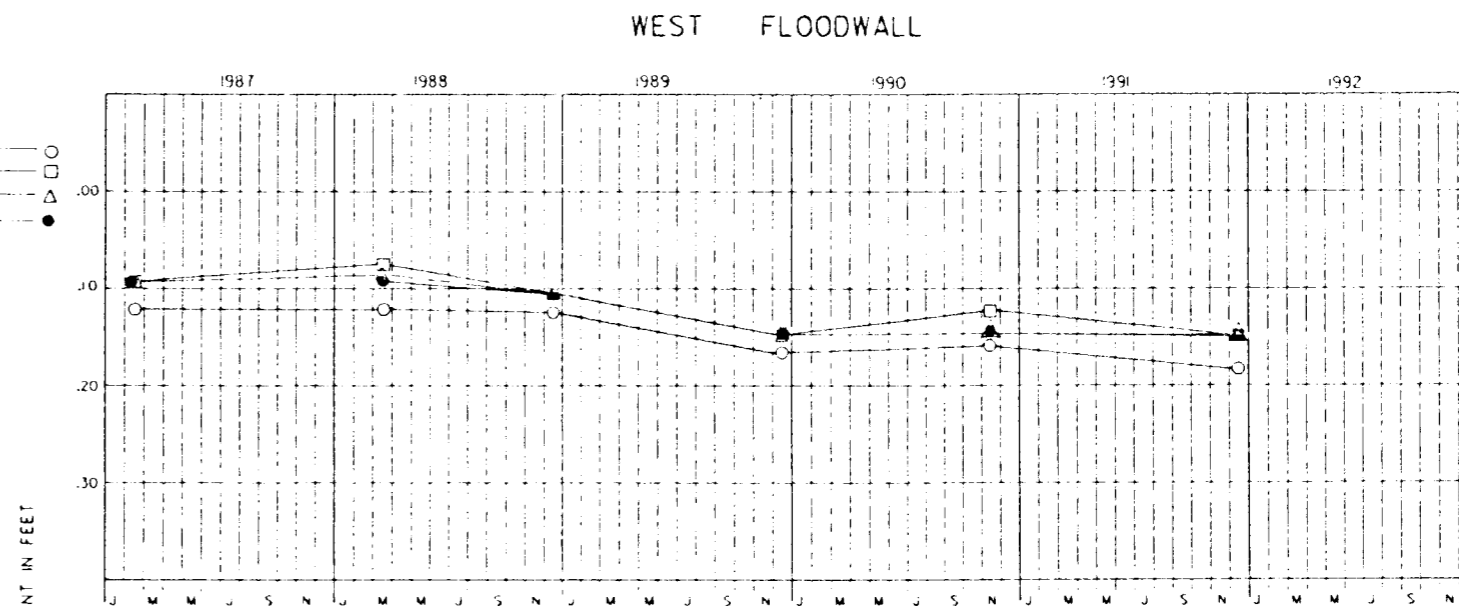
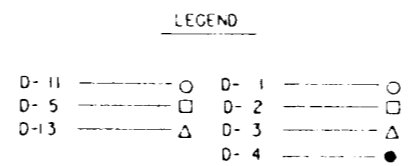
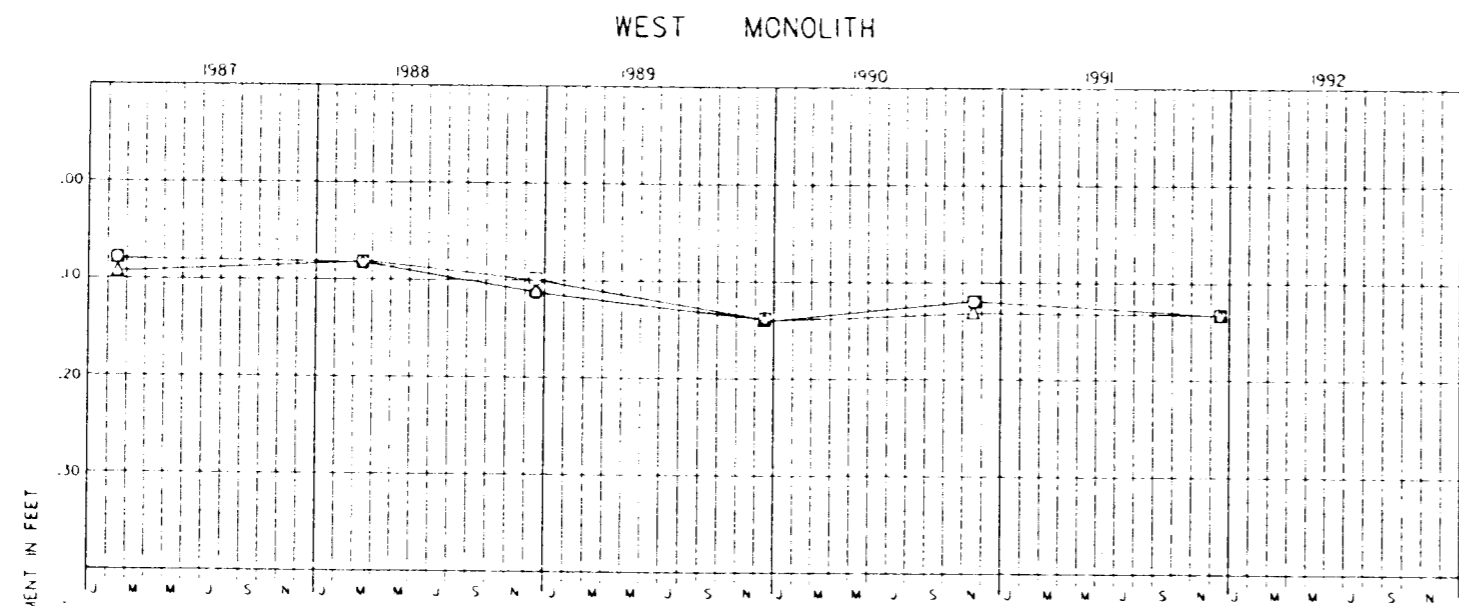
COMPUTER
AIDED
DESIGN
DRAFTING

LAKE PONTCHARTRAIN AND VICINITY
BAYOU DUPRE
PERIODIC INSPECTION

SETTLEMENT REFERENCE MARKS
DIFFERENTIAL SETTLEMENT CHART

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEER

FILE NO. H 4 26857



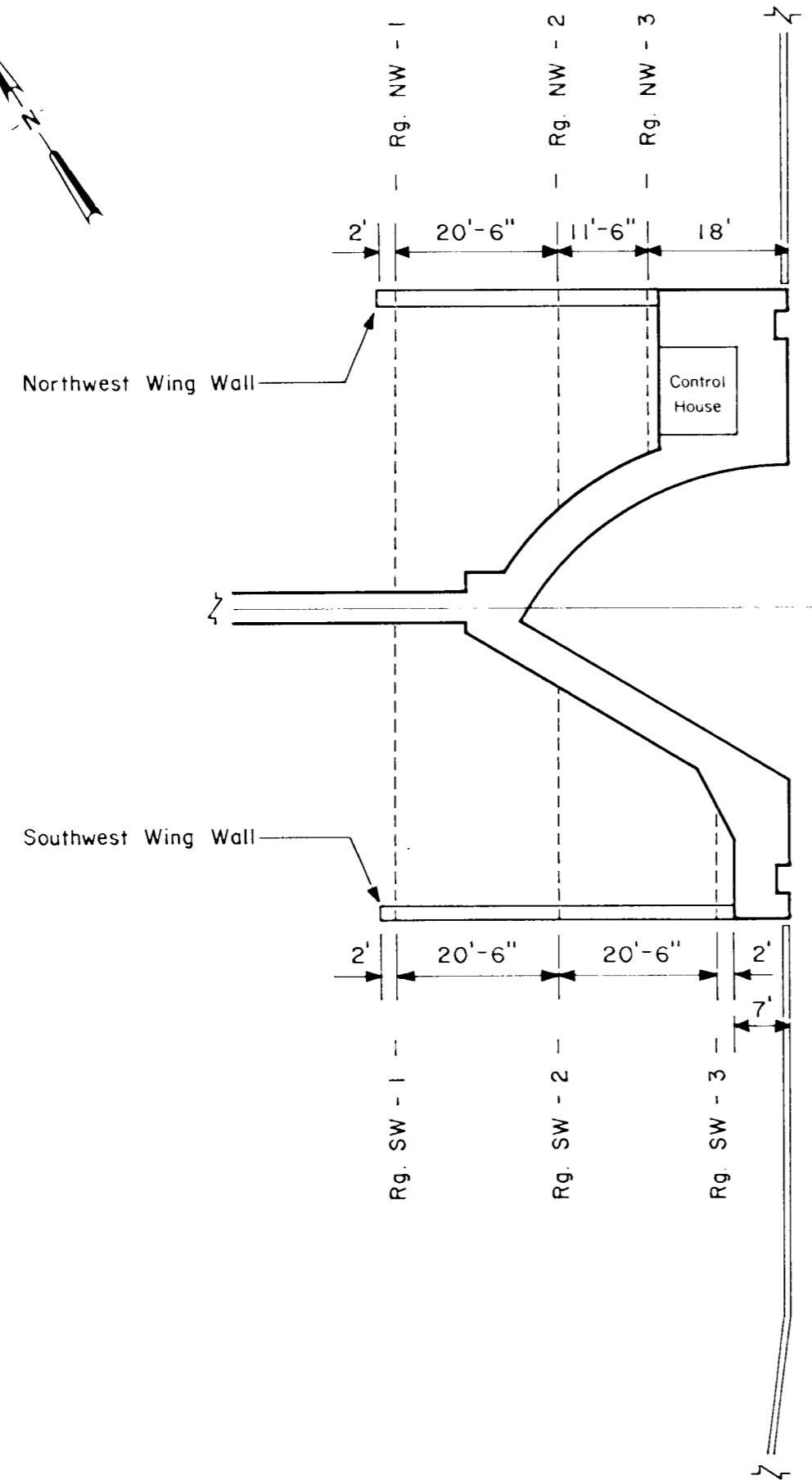
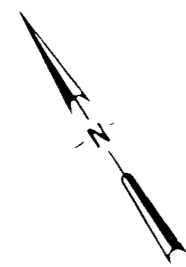
COMPUTER
AIDED
DESIGN
DRAFTING

LAKE PONTCHARTRAIN AND VICINITY
BAYOU DUPRE
PERIODIC INSPECTION

SETTLEMENT REFERENCE MARKS
DIFFERENTIAL SETTLEMENT CHART

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEER

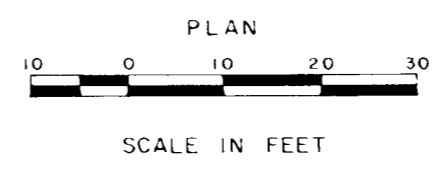
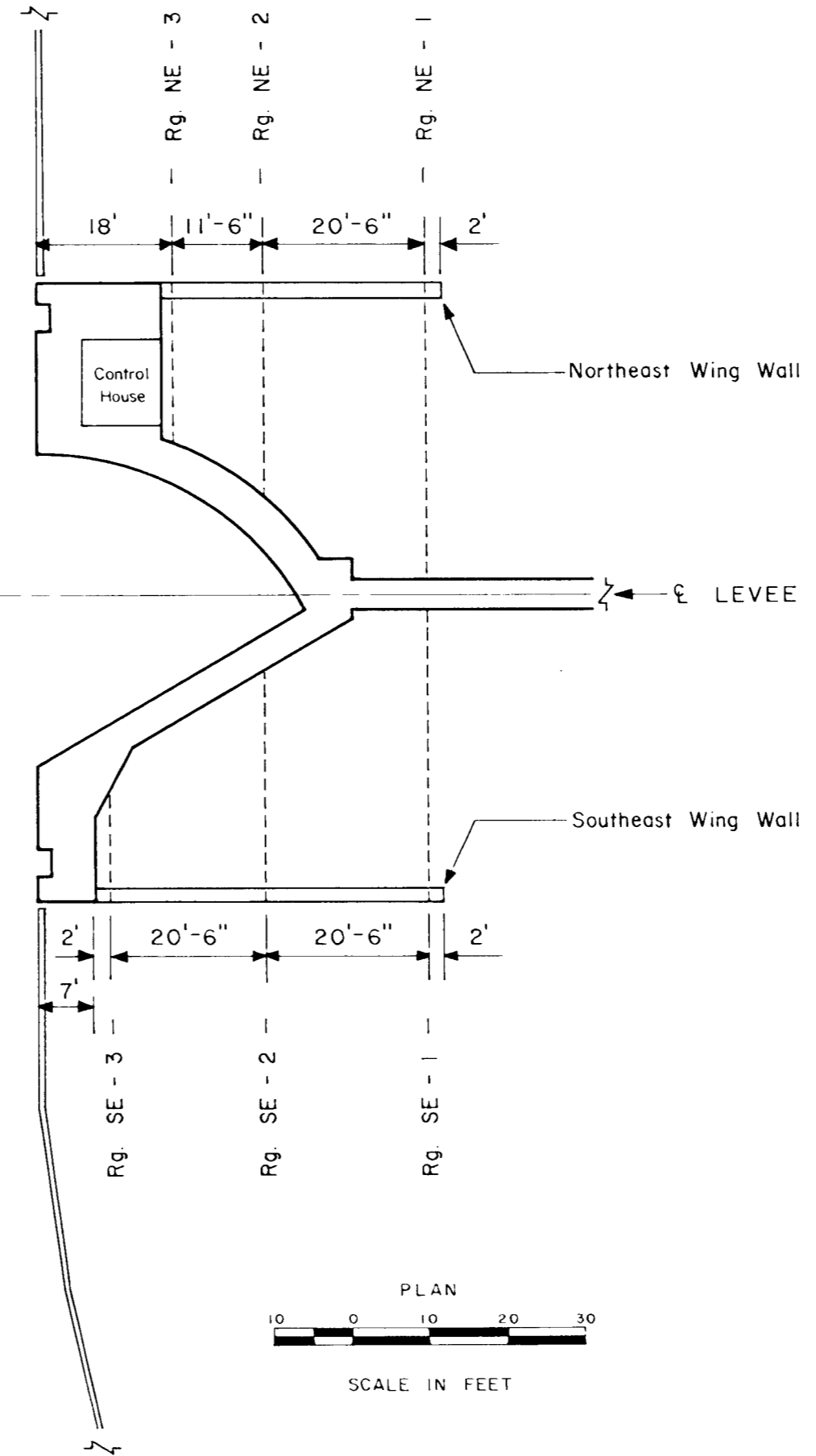
FILE NO. H-4-26857



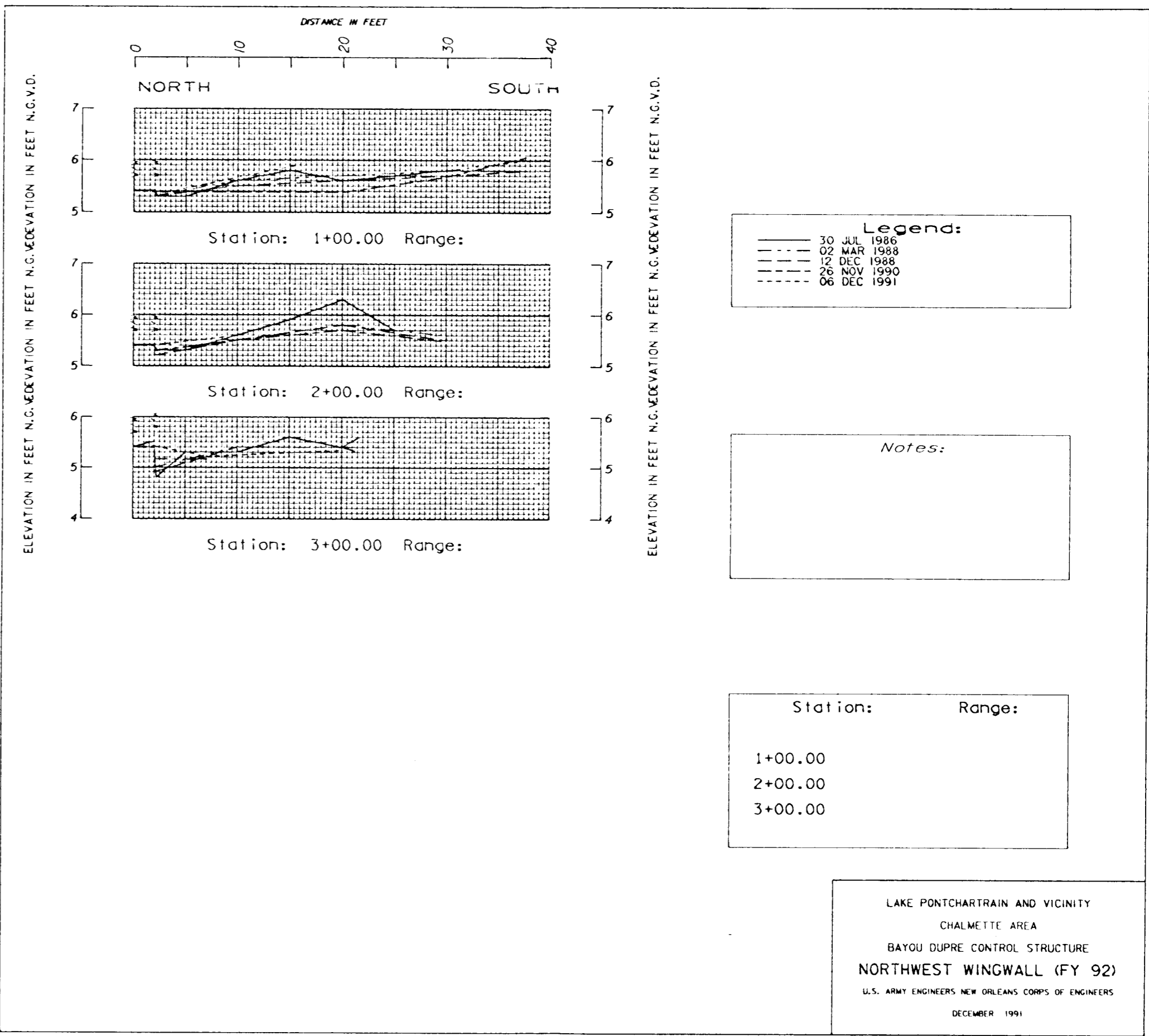
Flood Side

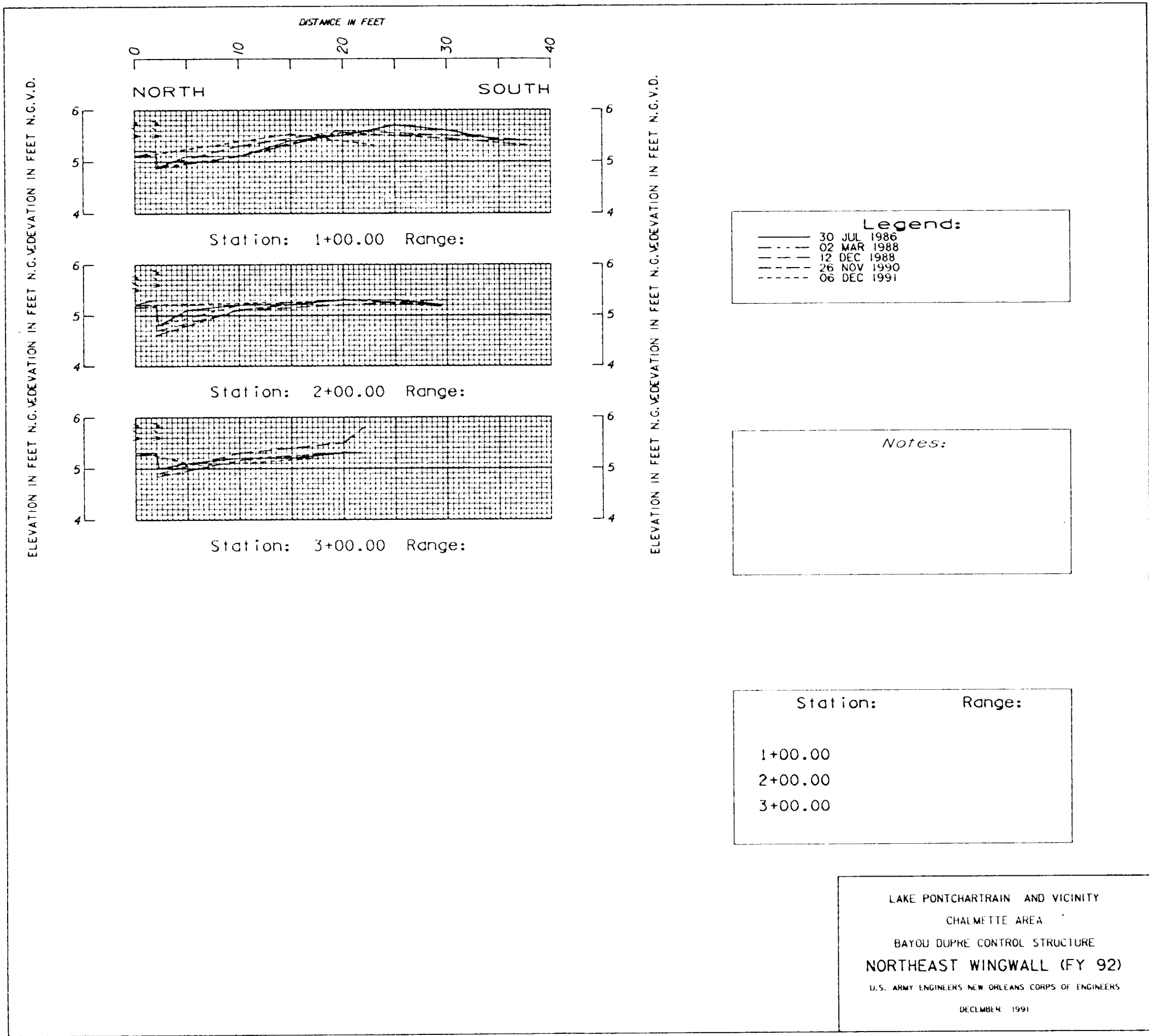
Protected Side

STRUCTURE

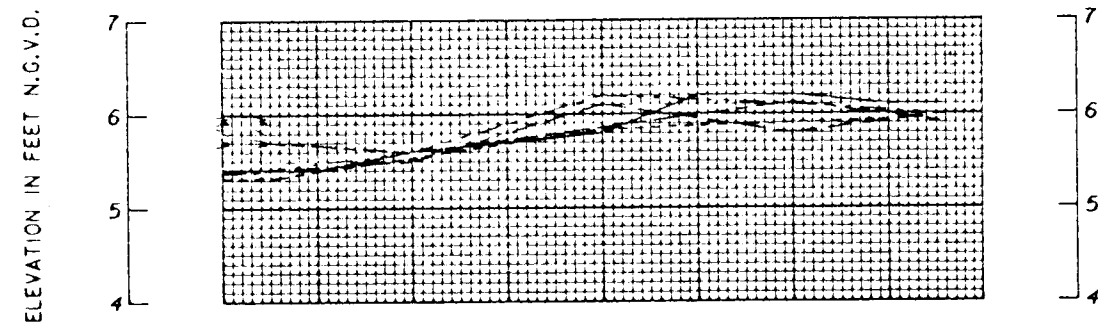


LAKE PONTCHARTRAIN AND VICINITY
 BAYOU DUPRE
 PERIODIC INSPECTION
**WING WALL
 RANGE LAYOUT**
 U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
 CORPS OF ENGINEERS
 FILE NO.

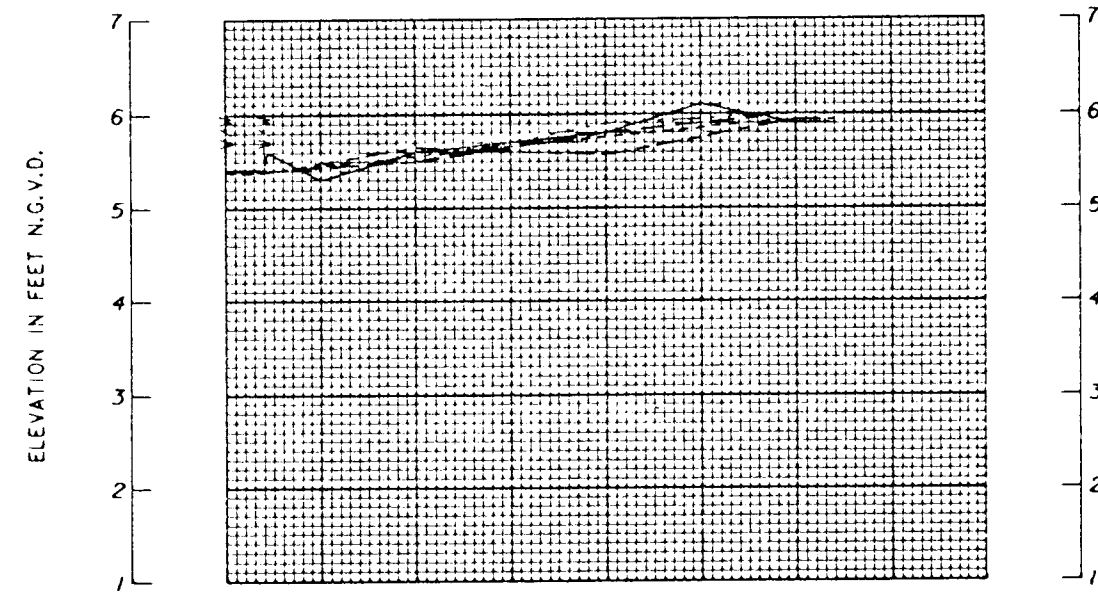




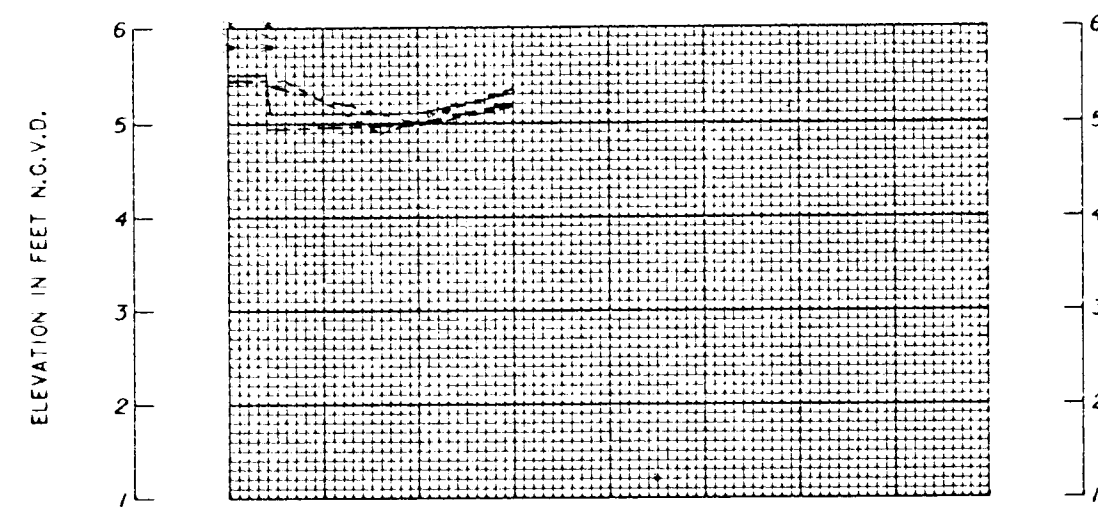
DISTANCE IN FEET
0 10 20 30 40
SOUTH NORTH



Station: 1+00.00 Range:



Station: 2+00.00 Range:



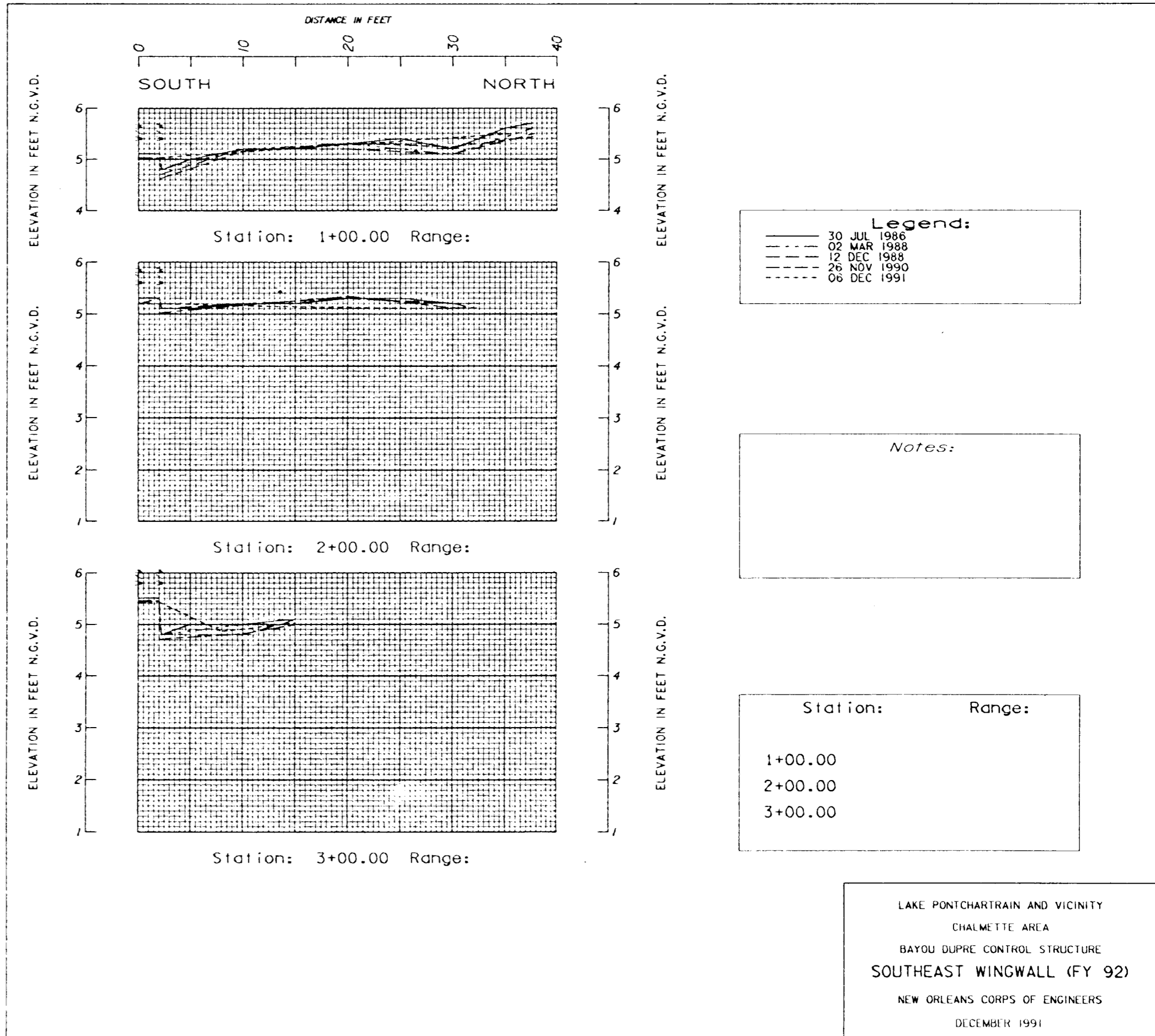
Station: 3+00.00 Range:

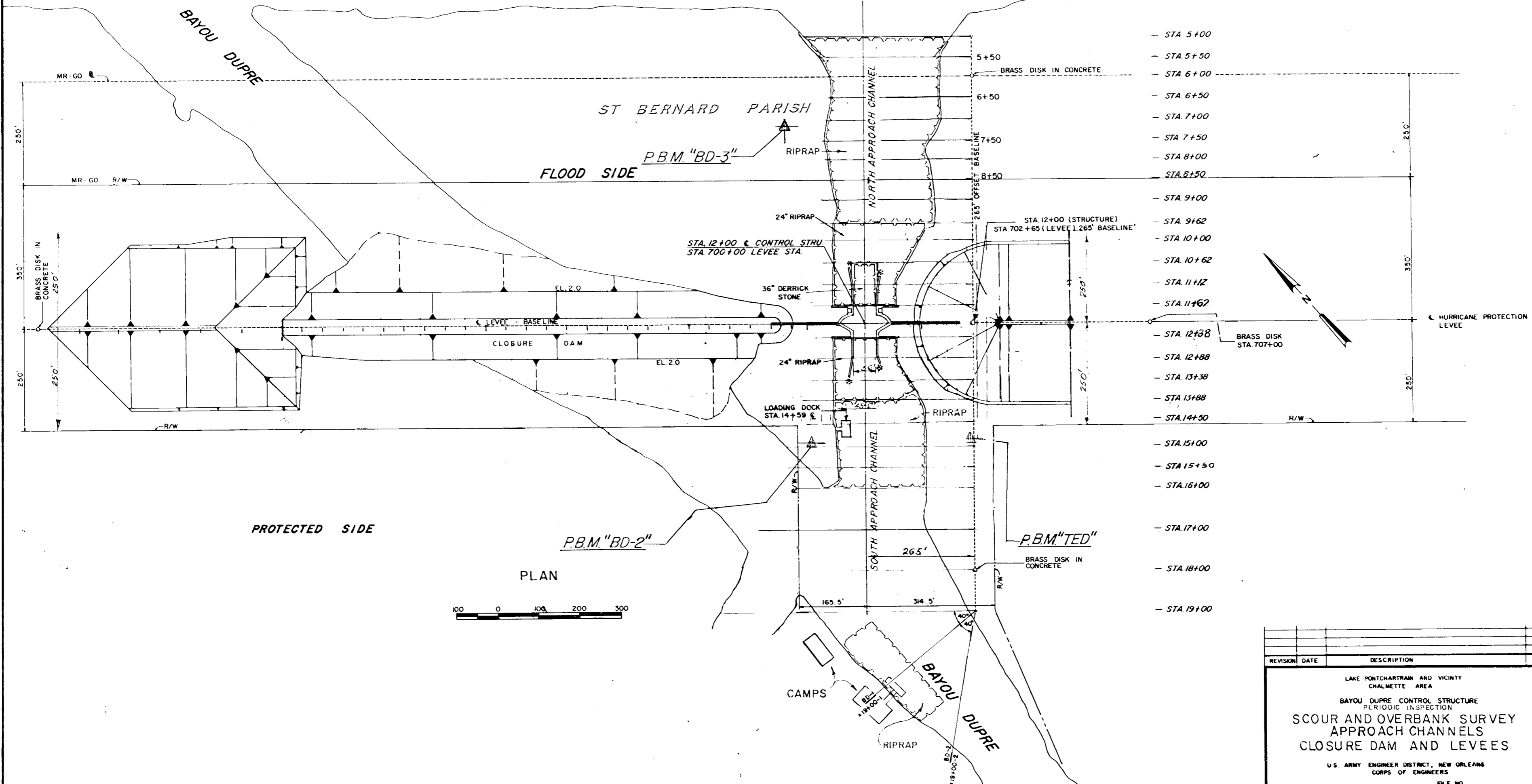
Legend:	
—	30 JUL 1986
- - -	02 MAR 1988
- · - ·	12 DEC 1988
- - - -	26 NOV 1990
· · · · ·	06 DEC 1991

Notes:

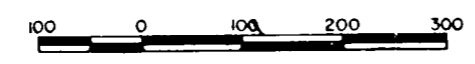
Station:	Range:
1+00.00	
2+00.00	
3+00.00	

LAKE PONTCHARTRAIN AND VICINITY
CHALMETTE AREA
BAYOU DUPRE CONTROL STRUCTURE
SOUTHWEST WINGWALL (FY 92)
U.S. ARMY ENGINEERS NEW ORLEANS CORPS OF ENGINEERS
DECEMBER 1991





- STA 5+00
- STA 5+50
- STA 6+00
- STA 6+50
- STA 7+00
- STA 7+50
- STA 8+00
- STA 8+50
- STA 9+00
- STA 9+62
- STA 10+00
- STA 10+62
- STA 11+12
- STA 11+62
- STA 12+38
- STA 12+88
- STA 13+38
- STA 13+88
- STA 14+50
- STA 15+00
- STA 15+50
- STA 16+00
- STA 17+00
- STA 18+00
- STA 19+00



PLAN

REVISION	DATE	DESCRIPTION	BY

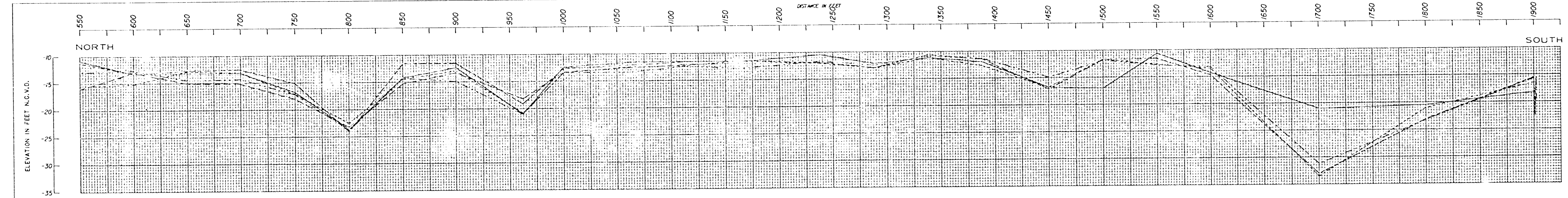
LAKE PONTCHARTRAIN AND VICINITY
CHALMETTE AREA

BAYOU DUPRE CONTROL STRUCTURE
PERIODIC INSPECTION

**SCOUR AND OVERBANK SURVEY
APPROACH CHANNELS
CLOSURE DAM AND LEVEES**

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS

FILE NO.



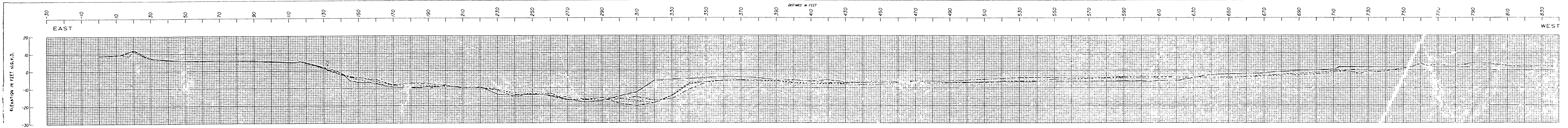
Legend:

- 16 JUN 1982
- - - 25 DEC 1988
- · · 13 DEC 1989
- · - 17 DEC 1991

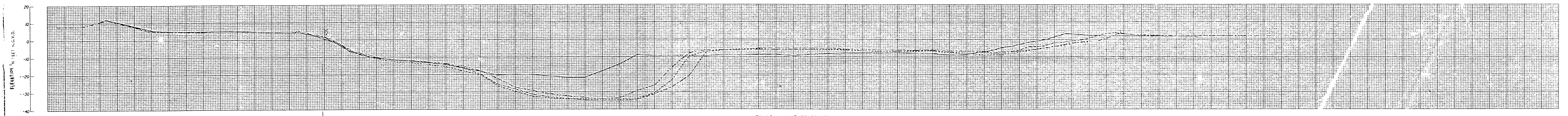
Notes:

C-L PROFILE 265 FT.

LAKE PONCHARTRAIN AND VICINITY
 BAYOU DUPRE CONTROL STRUCTURE
 PERIODIC INSPECTION
 PROFILE SURVEY (FY 92)
 U.S. ARMY ENGINEERS NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991



Station: 16+00.00 Range:



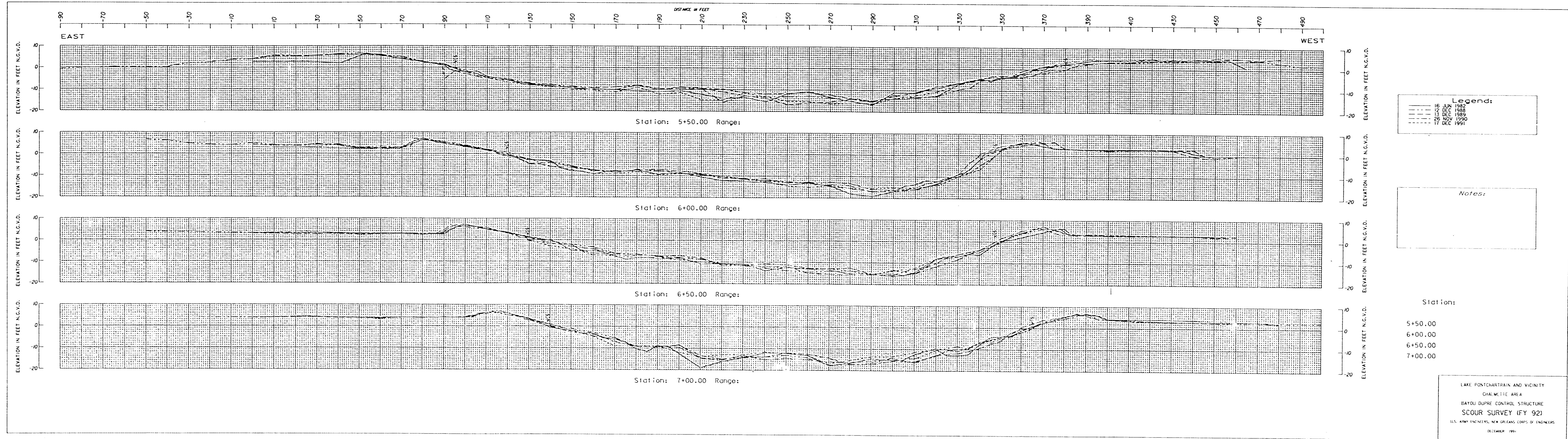
Station: 17+00.00 Range:

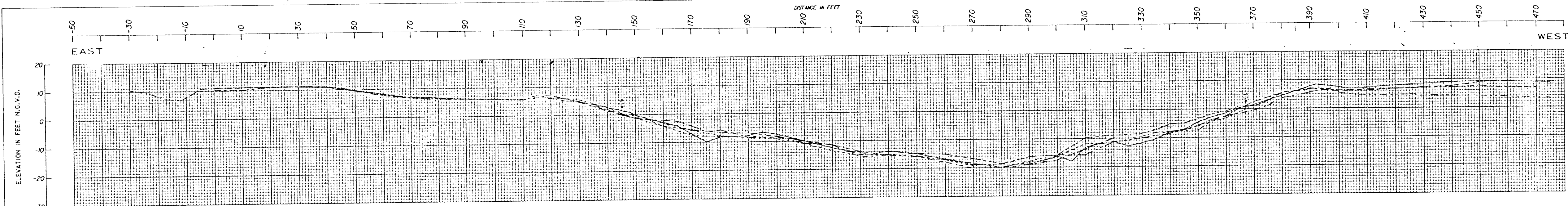
- Legend:**
- 16 JUN 1982
 - 13 DEC 1988
 - 13 DEC 1989
 - 26 NOV 1990
 - 17 DEC 1991

Notes:

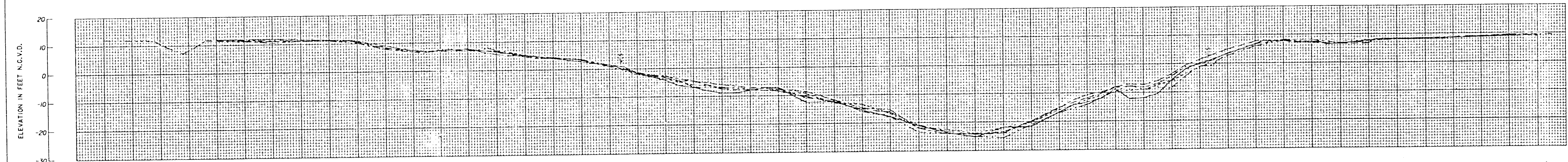
Station: Range:
 16+00.00
 17+00.00

LAKE PONTCHARTRAIN AND VICINITY
 CHALMETTE AREA
 BAYOU DUPRE CONTROL STRUCTURE
 SCOUR SURVEY (FY 92)
 U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991

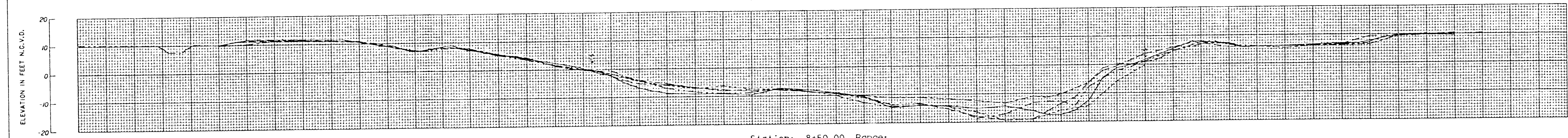




Station: 7+50.00 Range:



Station: 8+00.00 Range:



Station: 8+50.00 Range:

Legend:

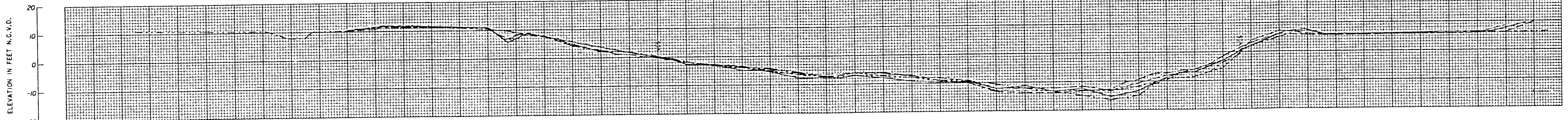
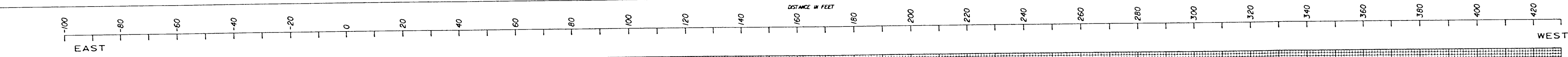
—	16 JUN 1982
- - -	13 DEC 1988
· · ·	13 DEC 1989
- · -	26 NOV 1990
- · -	17 DEC 1991

Notes:

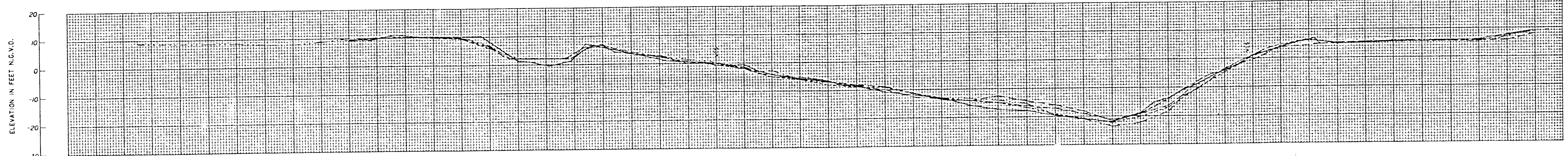
Station: Range:

7+50.00	
8+00.00	
8+50.00	

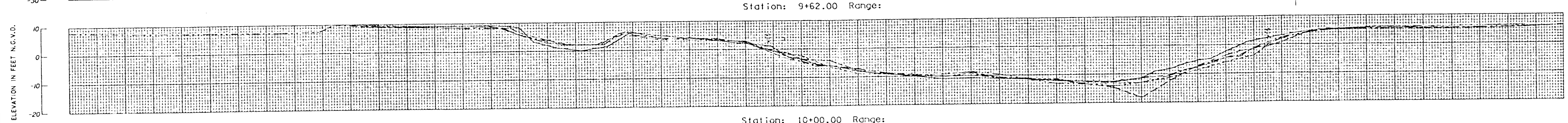
LAKE PONTCHARTRAIN AND VICINITY
 CHALMETTE AREA
 BAYOU DUPRE CONTROL STRUCTURE
 SCOUR SURVEY (FY 92)
 U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991



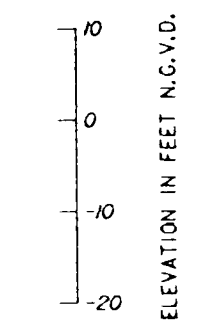
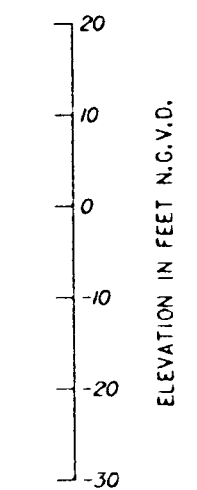
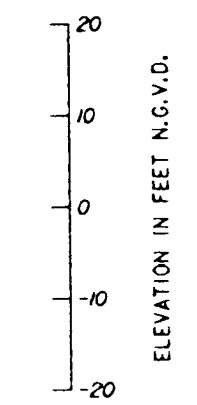
Station: 9+00.00 Range:



Station: 9+62.00 Range:



Station: 10+00.00 Range:



Legend:

—	16 JUN 1982
- - -	12 DEC 1988
· · ·	13 DEC 1989
- - -	26 NOV 1990
- - -	17 DEC 1991

Notes:

Station:	Range:
9+00.00	
9+62.00	
10+00.00	

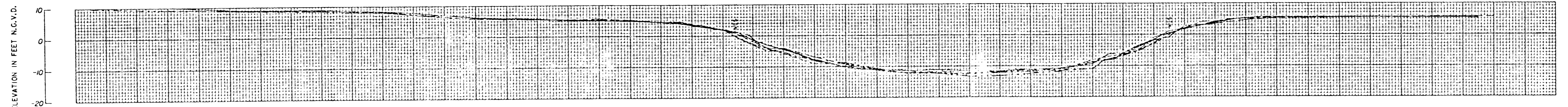
LAKE PONTCHARTRAIN AND VICINITY
 CHALMETTE AREA
 BAYOU DUPRE CONTROL STRUCTURE
 SCOUR SURVEY (FY 92)
 U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991

DISTANCE IN FEET

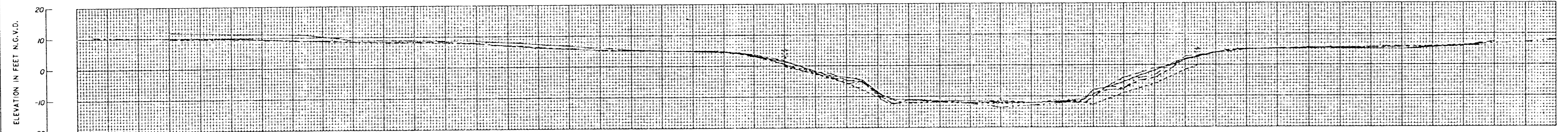
-30 -10 10 30 50 70 90 110 130 150 170 190 210 230 250 270 290 310 330 350 370 390 410 430 450

EAST

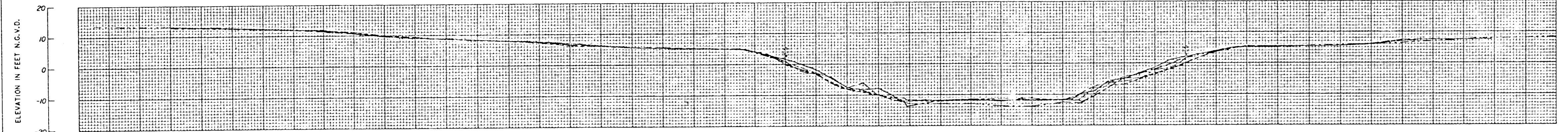
WEST



Station: 10+62.00 Range:



Station: 11+12.00 Range:



Station: 11+62.00 Range:

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

Legend:

- 16 JUN 1982
- - - 12 DEC 1988
- · · 13 DEC 1989
- · - 26 NOV 1990
- - - 17 DEC 1991

Notes:

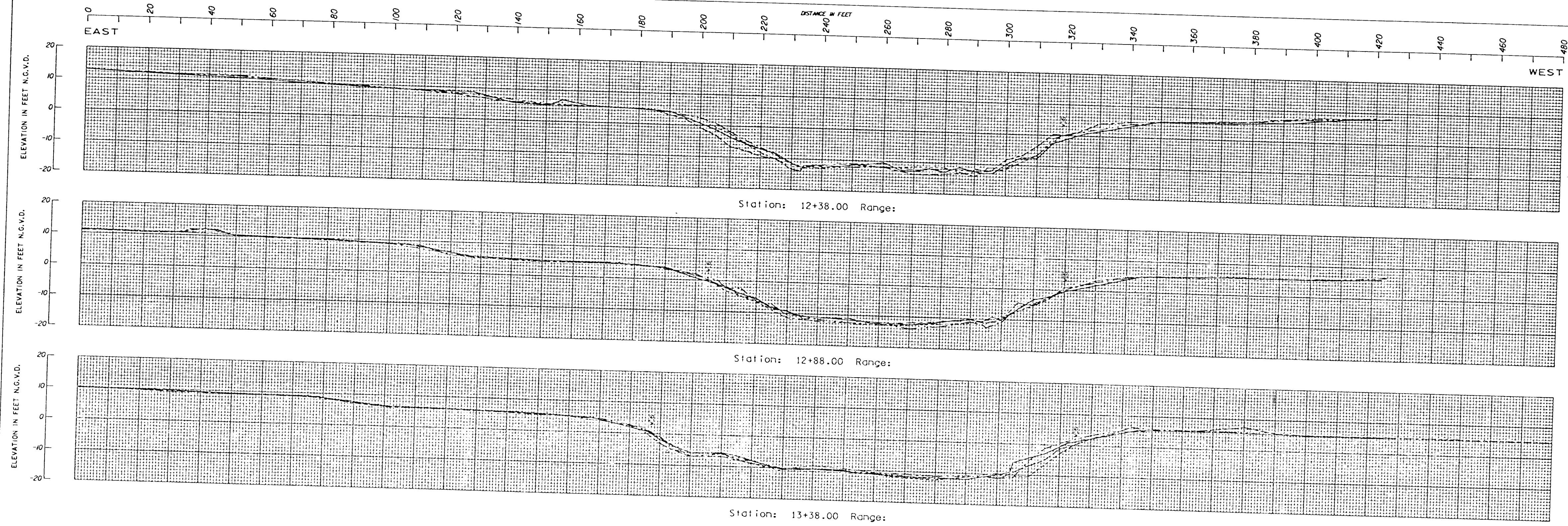
Station: Range:

10+62.00

11+12.00

11+62.00

LAKE PONTCHARTRAIN AND VICINITY
CHALMETTE AREA
BAYOU DUPRE CONTROL STRUCTURE
SCOUR SURVEY (FY 92)
U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
DECEMBER 1991



0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480

EAST WEST

DISTANCE IN FEET

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

ELEVATION IN FEET N.G.V.D.

Legend:

- 16 JUN 1982
- - - 12 DEC 1988
- · - · 13 DEC 1989
- · - · 26 NOV 1990
- · - · 17 DEC 1991

Notes:

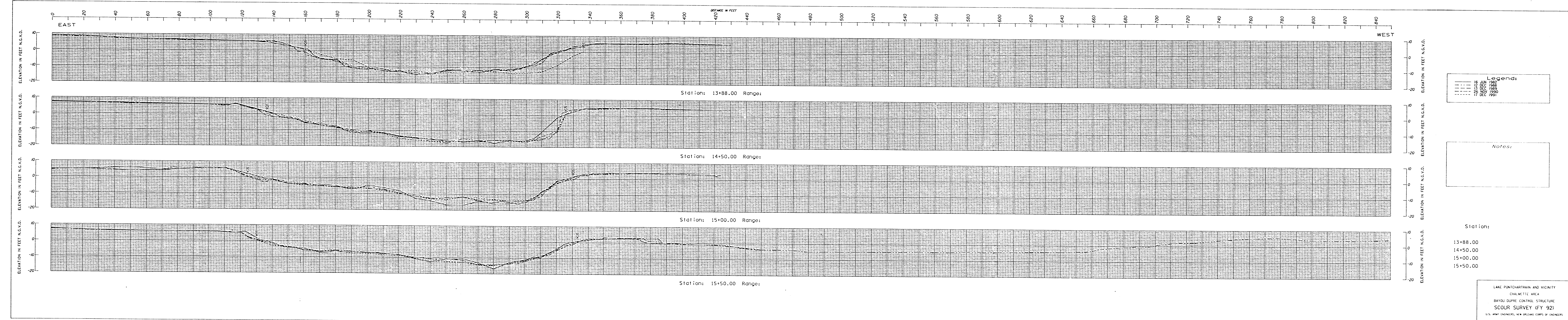
Station: Range:

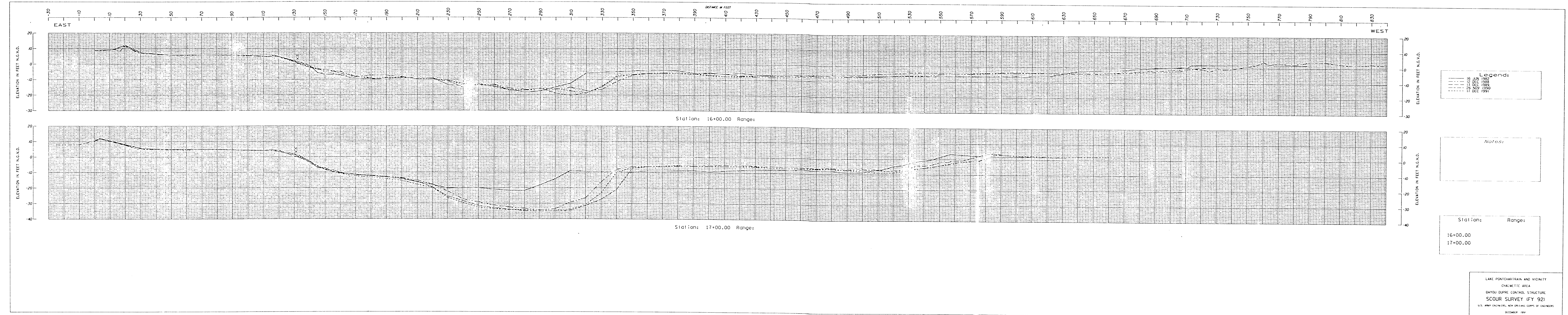
12+38.00

12+88.00

13+38.00

LAKE PONTCHARTRAIN AND VICINITY
 CHALMETTE AREA
 BAYOU DUPRE CONTROL STRUCTURE
 SCOUR SURVEY (FY 92)
 U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991





Legend:

- 16 JUN 1982
- - - 12 DEC 1988
- ... 26 NOV 1990
- · - · 17 DEC 1991

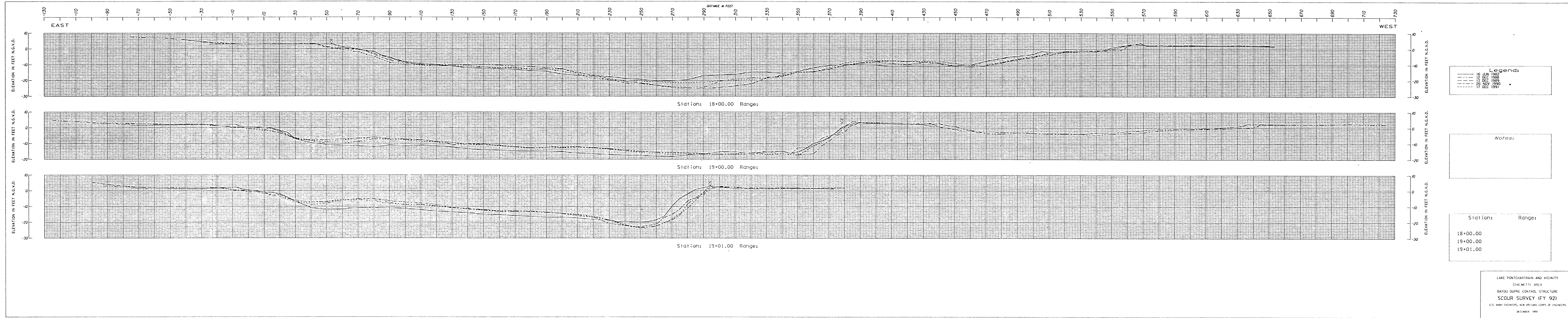
Notes:

Station: Range:

16+00.00

17+00.00

LAKE PONTCHARTRAIN AND VICINITY
 CHALMETTE AREA
 BAYOU DUPRE CONTROL STRUCTURE
 SCOUR SURVEY (FY 92)
 U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991



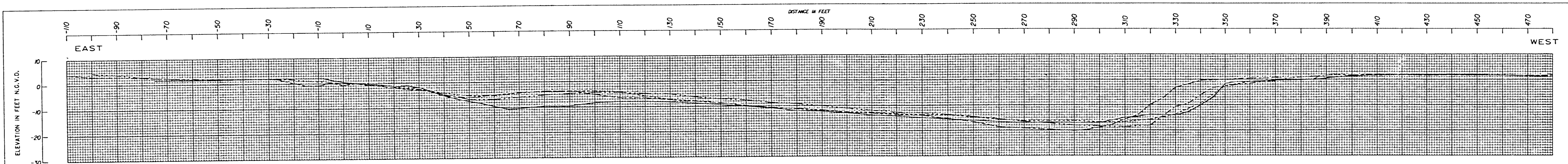
Legend:

—	16 JUN 1982
- - -	12 DEC 1988
· · ·	13 DEC 1989
- · -	26 NOV 1990
- · - ·	17 DEC 1991

Notes:

Station:	Range:
18+00.00	
19+00.00	
19+01.00	

LAKE PONTCHARTRAIN AND VICINITY
 CHALMETTE AREA
 BAYOU DUPRE CONTROL STRUCTURE
 SCOUR SURVEY (FY 92)
 U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
 DECEMBER 1991



Station: 19+02.00 Range:

Legend:

—	16 JUN 1988
- - -	12 DEC 1988
- . - .	13 DEC 1989
- - -	29 NOV 1990
- - -	17 DEC 1991

Notes:

Station: Range:
19+02.00

LAKE PONTCHARTRAIN AND VICINITY
CHALMETTE AREA
BAYOU DUPRE CONTROL STRUCTURE
SCOUR SURVEY (FY 92)
U.S. ARMY ENGINEERS, NEW ORLEANS CORPS OF ENGINEERS
DECEMBER 1991