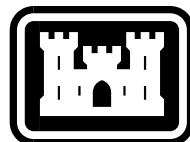

LOUISIANA COASTAL AREA RESTORATION FEASIBILITY STUDY

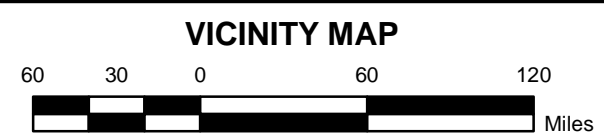
CONVEY ATCHAFALAYA RIVER WATER TO NORTHERN TERREBONNE MARSHES

APPENDIX R ANNEX 4



**US Army Corps
of Engineers
St. Louis District®**

GATEWAY TO EXCELLENCE



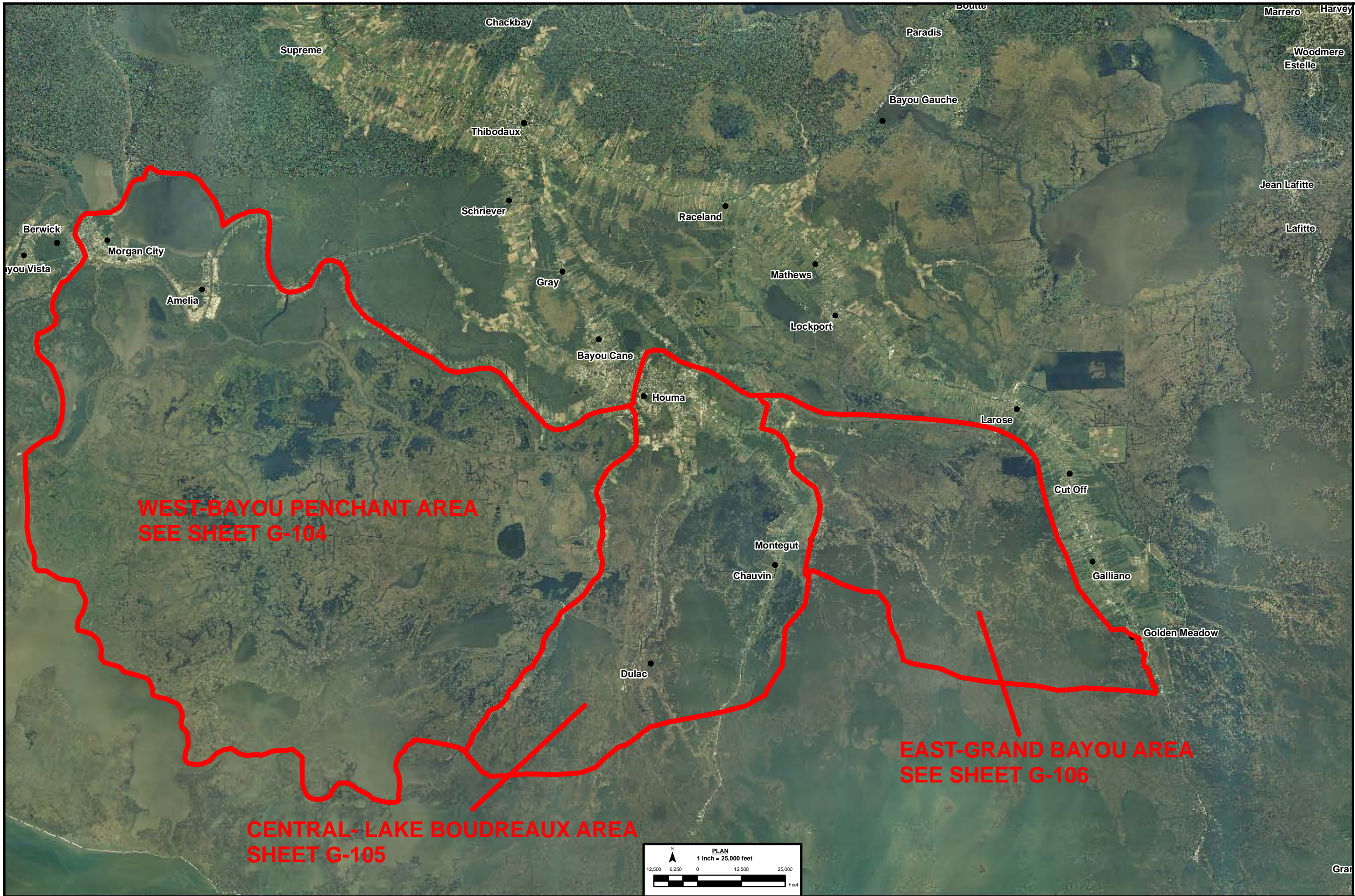
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DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	FILE NUMBER:
FILE NAME:	

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

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
PROJECT LOCATION & VICINITY MAP

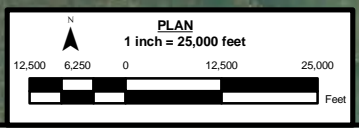


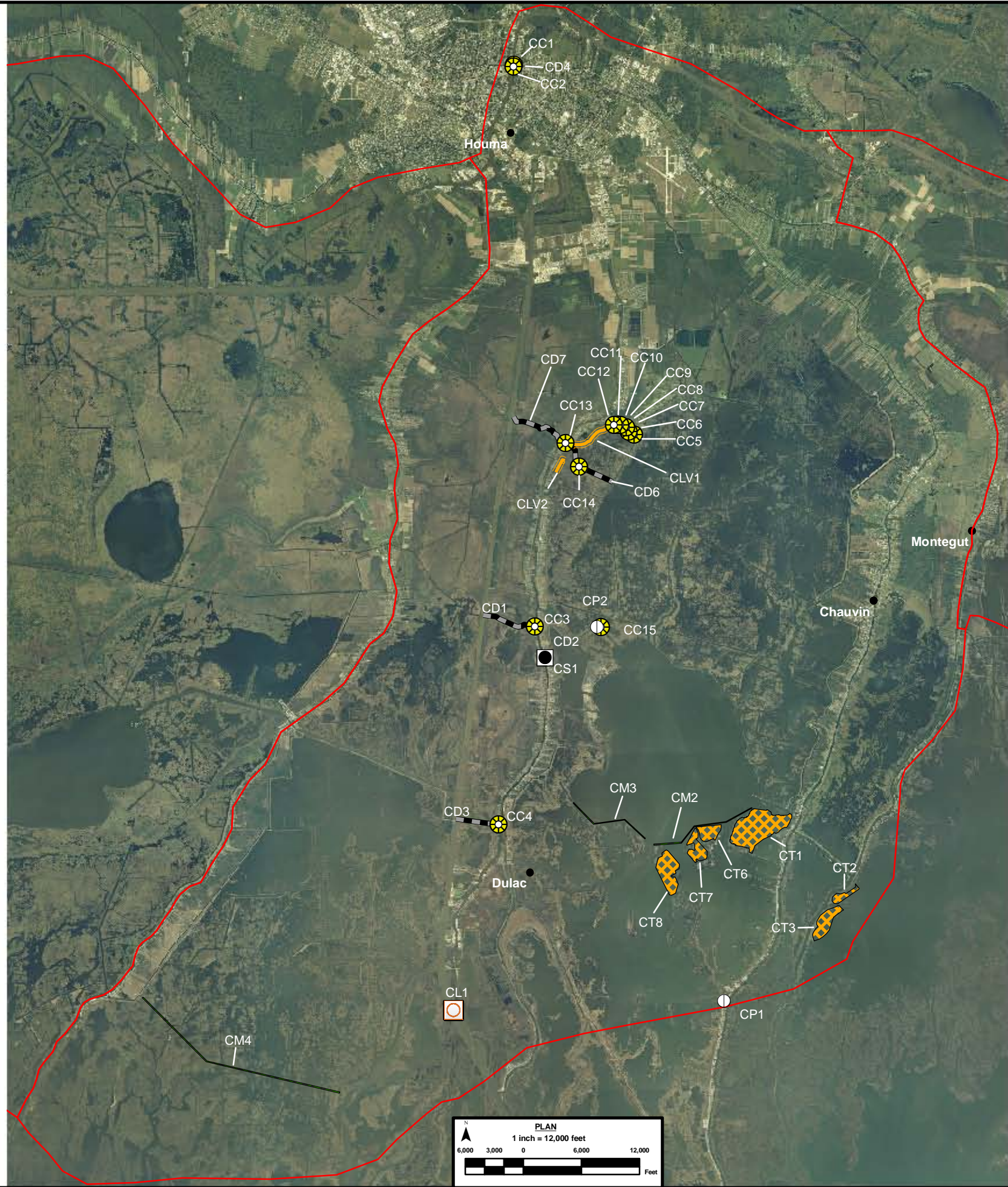
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DRAWN BY: D.K.M.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	PLOT DATE:
FILE NAME:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	
U.S. ARMY CORPS OF ENGINEERS 1222 SPRING STR. 6103	

CONVEY ATCHAFALEYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
GENERAL SITE PLAN

SHEET
G-103



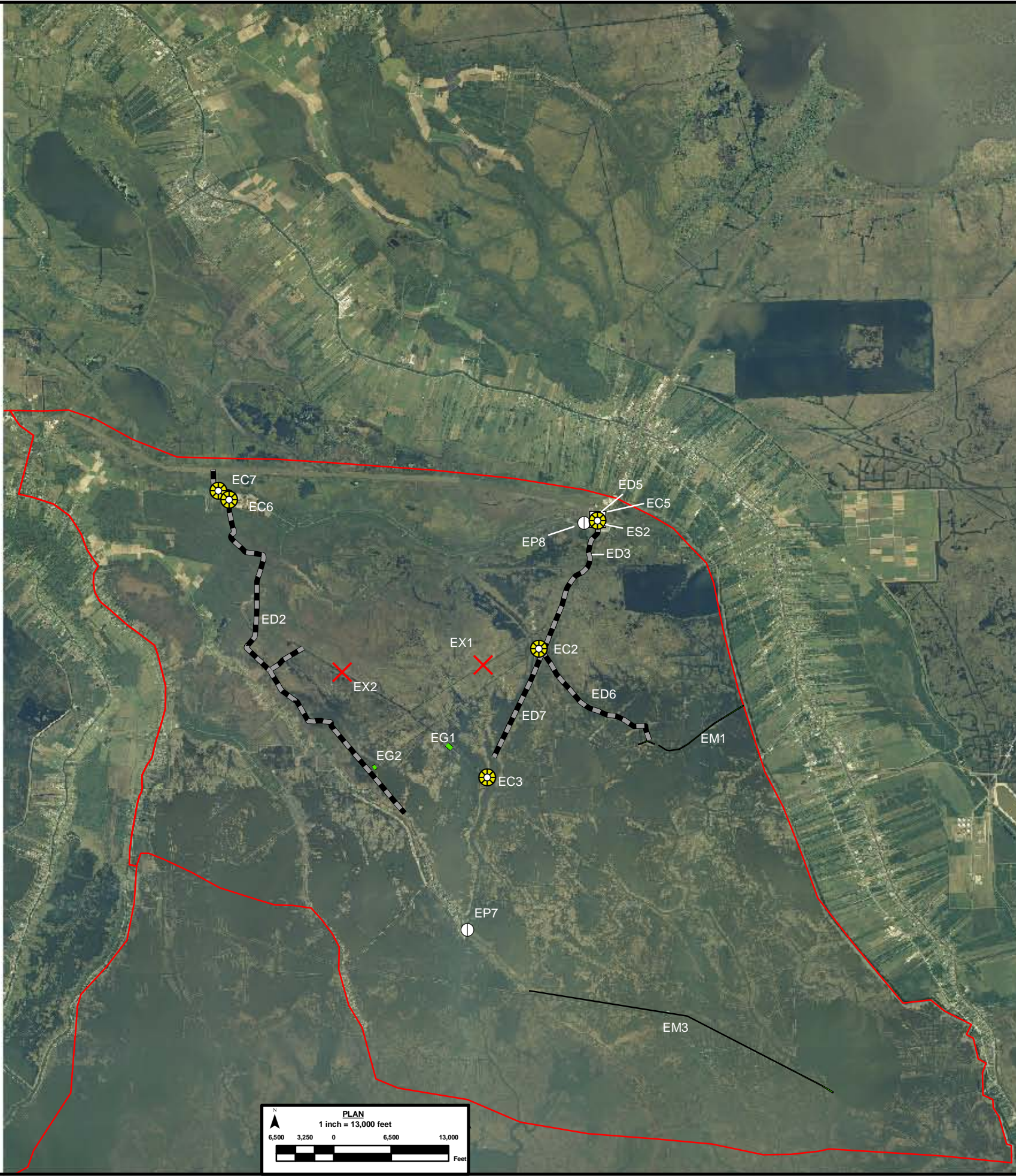


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		DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:	SOLICITATION NO.:
DRAWN BY: T.P.E.	CKD BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	

CONVEY ATCHAFAAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
SITE PLAN
CENTRAL-LAKE BOUDREAU X AREA

SHEET
G-105



FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLLOT SCALE:	FILE NUMBER:
SIZE:	FILE NAME:

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

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUCE STR. 6103

CONVEY ATCHAFAAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
SITE PLAN
EAST- GRAND BAYOU AREA

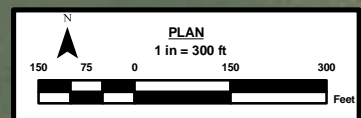
SHEET
G-106



BAYOU SHAFFER

WS4
 N: 399649
 E: 3325617
 SEE S-101, 201 FOR FURTHER
 DETAILS

AVOCA ISLAND CUTOFF



FEASIBILITY		DATE	DATE	DATE	DATE
		APPR	APPR	APPR	APPR
MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
CHECKED BY: D.K.M.	CONTRACT NO.:
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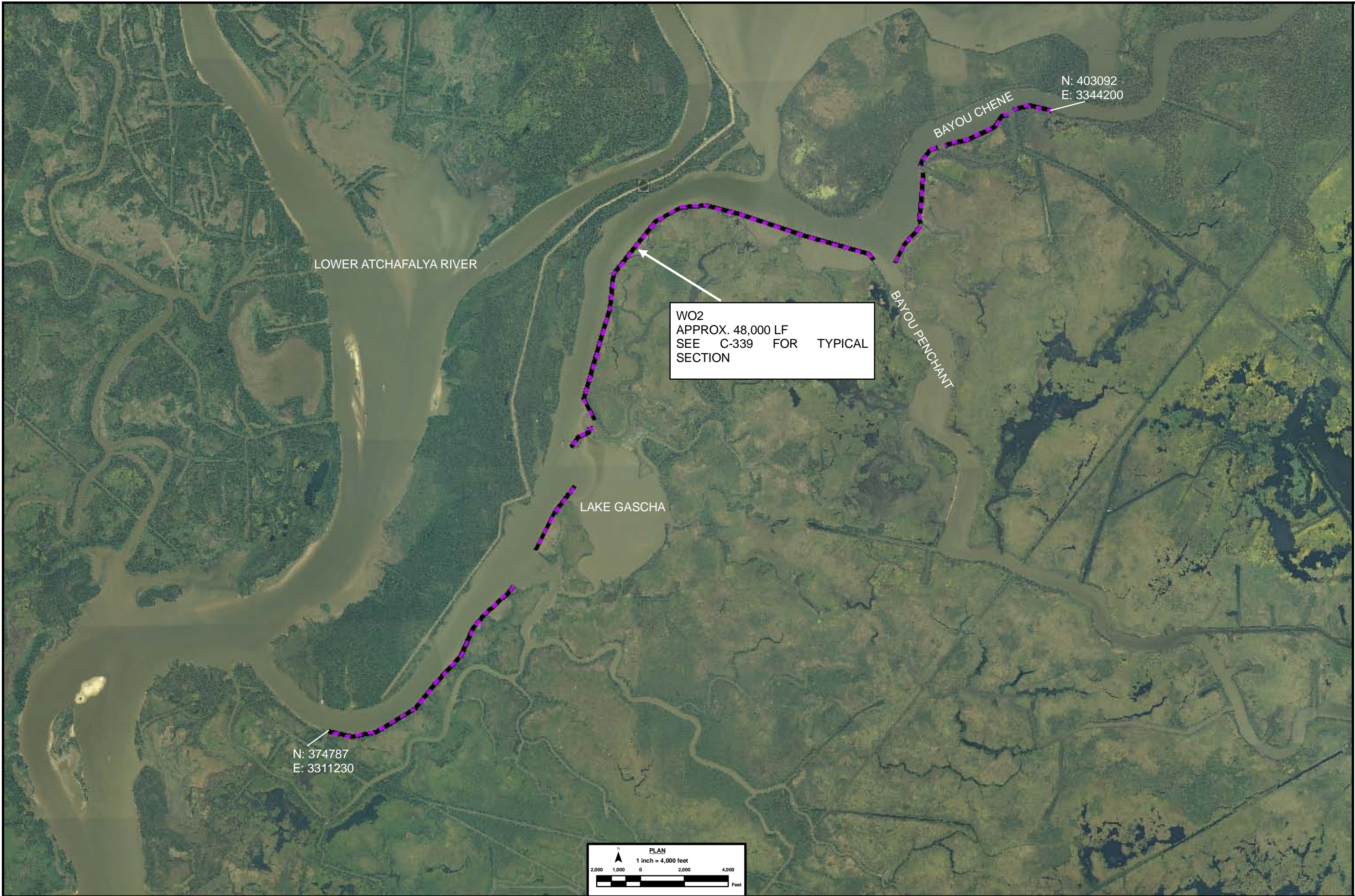
U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT
 NEW ORLEANS, LOUISIANA

U.S. ARMY CORPS OF ENGINEERS
 1222 SPRUCE STR. 6103

CONVEY ATCHAFAÏA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 WEST-BAYOU PENCHANT AREA

STRUCTURE
 WS4

SHEET
 C-101



LOWER ATCHAFALYA RIVER

N: 403092
E: 3344200

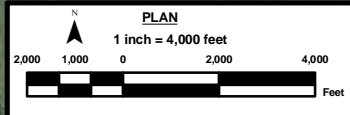
BAYOU CHENE

WO2
APPROX. 48,000 LF
SEE C-339 FOR TYPICAL
SECTION

BAYOU PENCHANT

LAKE GASCHA

N: 374787
E: 3311230



FEASIBILITY		DATE	DATE	DATE	DATE
		MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: D.K.M.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
WEST-BAYOU PENCHANT AREA
SHORELINE PROTECTION
WO2

SHEET
C-103

FEASIBILITY

MARK	DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:	SOLICITATION NO.:
DRAWN BY: T.P.E.	DCKO BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:	
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
WEST-BAYOU PENCHANT AREA

DREDGE CHANNEL
WD2

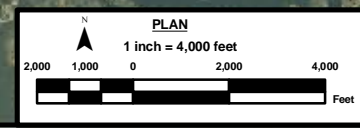
SHEET
C-105



N: 355155
E: 3368891

WD2
APPROX. 35,463 LF
SEE C-339 FOR TYPICAL SECTION

N: 329712
E: 3387344



CARENCREO LAKE

CARENCREO BAYOU

LAKE PENCHANT

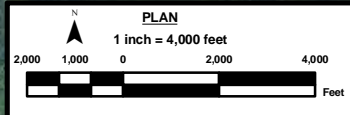
SUPERIOR CANAL



WD3
 APPROX. 16,339 LF
 SEE C-339 FOR TYPICAL SECTION

N: 408992
 E: 3386037

N: 408067
 E: 3370103



FEASIBILITY		DATE	DATE	DATE
		APPR.	APPR.	APPR.
MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: D.K.M.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	PLOT DATE:
FILE NAME:	FILE NUMBER:

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

U.S. ARMY CORPS OF ENGINEERS
 1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 WEST-BAYOU PENCHANT AREA

DREDGE CHANNEL
 WD3

SHEET
 C-106

BAYOU DU LARGE



US Army Corps of Engineers
St. Louis District

MARK	DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

FEASIBILITY

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	PLOT DATE:
FILE NAME:	FILE NUMBER:

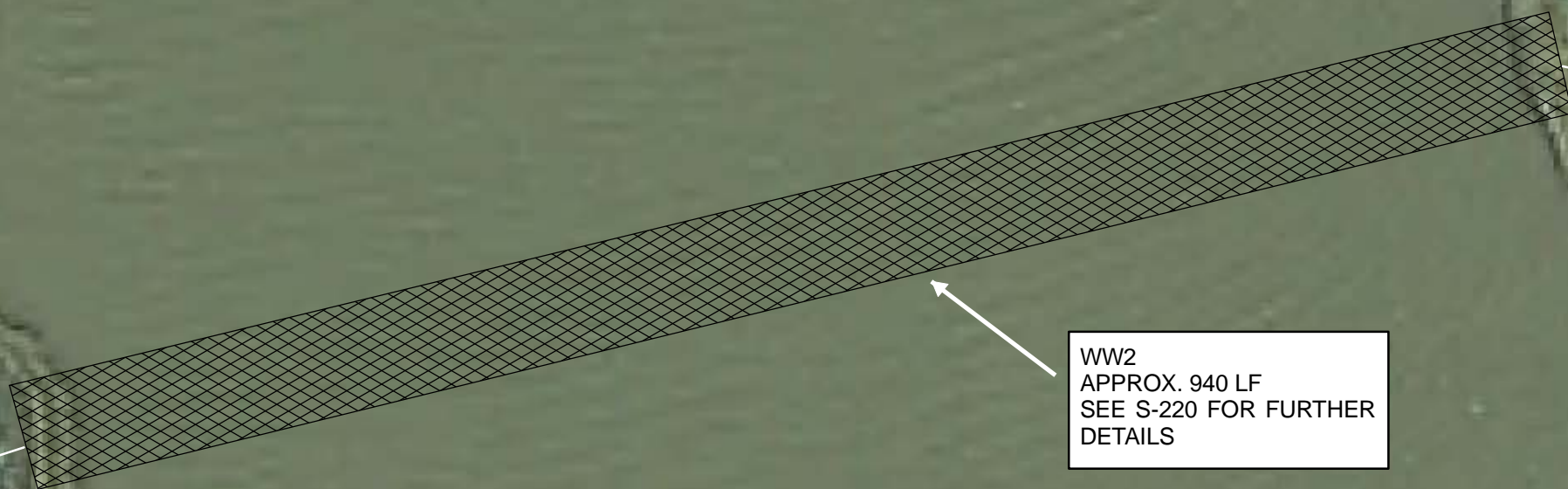
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
WEST-BAYOU PENCHANT AREA

WEIR
WW2

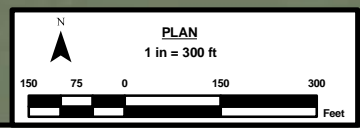
SHEET
C-107



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WW2
APPROX. 940 LF
SEE S-220 FOR FURTHER
DETAILS

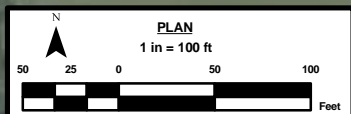
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CAILLOU LAKE

LAKE MECHANT

CAILLOU LAKE



N: 277968
E: 3405798

N: 277982
E: 3405894

WP1
APPROX. 115 LF
SEE C-340 FOR TYPICAL
SECTION



US Army Corps of Engineers
St. Louis District

FEASIBILITY		DATE	DATE	DATE	DATE
		MARK	DESCRIPTION	APPR. MARK	APPR. DATE

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
WEST-BAYOU PENCHANT AREA

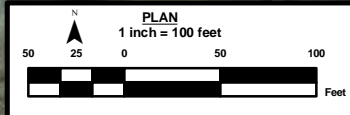
PLUG
WP1

SHEET
C-108



N: 723058
E: 3257882

CS1
SEE R-101, 301, 302 FOR FURTHER
DETAILS



FEASIBILITY		MARK	DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
CHK'D BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
PLOT SCALE:	PLOT DATE:
SIZE:	FILE NAME:

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

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUCE STR. 6103

CONVEY ATCHAELAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAUX AREA

DIVERSION STRUCTURE
CS1

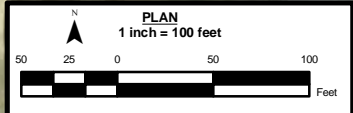
SHEET
C-110



CP1
 APPROX. 175 LF
 SEE C-340 FOR TYPICAL SECTION

N: 303432
 E: 3500759

N: 303582
 E: 3500840



FEASIBILITY		DATE	DATE	DATE
		MARK	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
FILE NAME:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103

CONVEY ATCHAFLAYA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 CENTRAL- LAKE BOUDREAU AREA
 PLUG
 CP1

SHEET
 C-110A

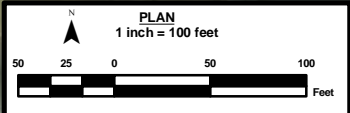


CP2
 APPROX. 60 LF
 SEE C-340 FOR TYPICAL SECTION

N: 342189
 E: 3487621

N: 342146
 E: 3487661

BAYOU BUTLER



FEASIBILITY		DATE	DATE	DATE
		APPR	APPR	APPR
MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
CHECKED BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
PLOT SCALE:	PLOT DATE:
SIZE:	FILE NAME:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	

CONVEY ATCHAFALAYA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 CENTRAL- LAKE BOUDREAU AREA
 PLUG
 CP2

SHEET
 C-110B



FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	DESCRIPTION	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
CHECKED BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	PLOT SCALE:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFAÏA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAUX AREA
DREDGE CHANNEL
CD1

SHEET
C-111



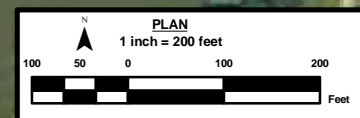
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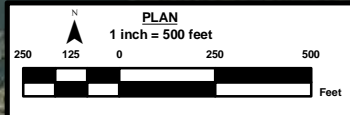
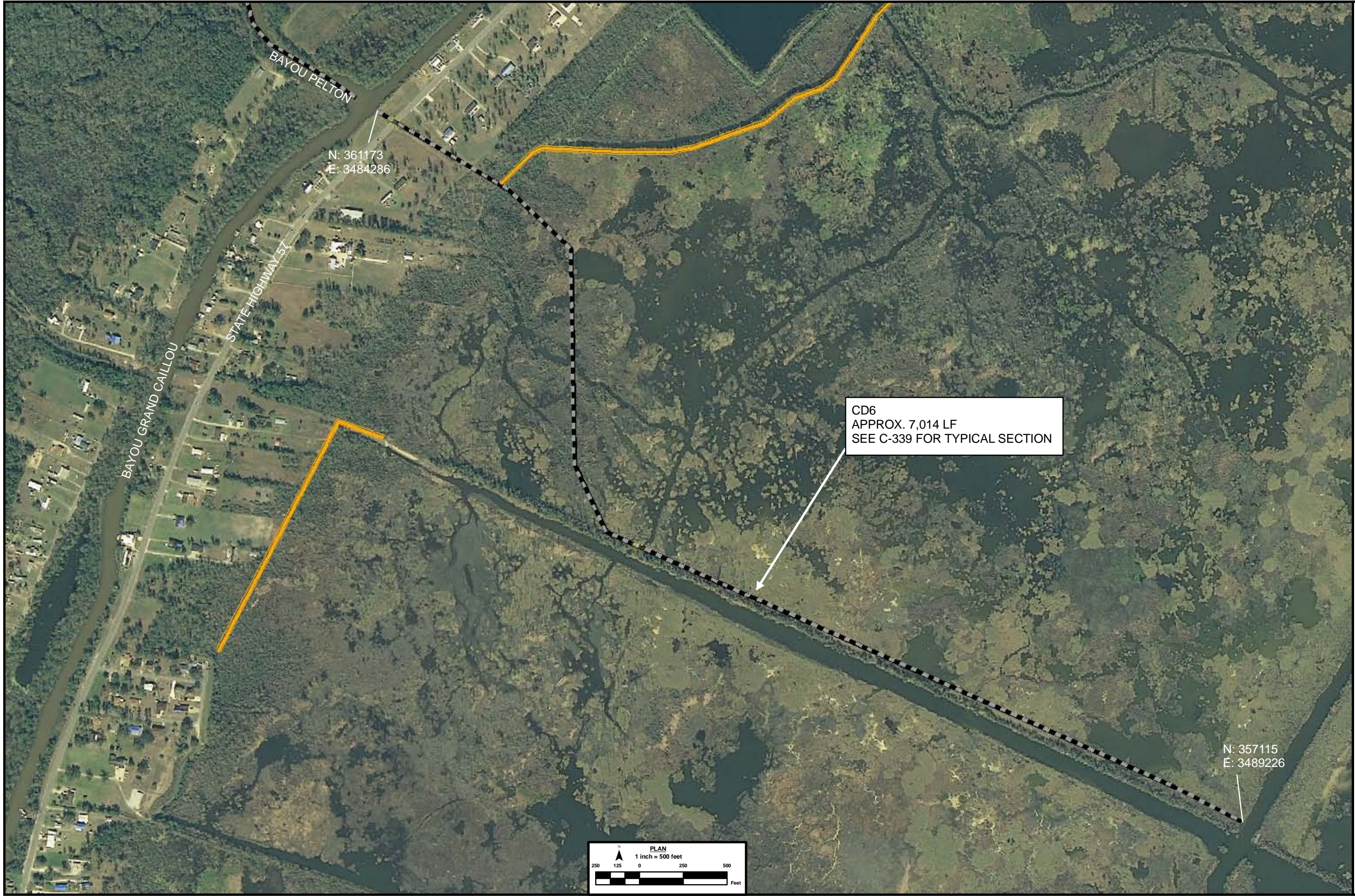
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SOLICITATION NO.:		CONTRACT NO.:		FILE NUMBER:	

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL LAKE AREA
DREDGE CHANNEL
CD4

NOTES:
1.) SEE C-339 FOR TYPICAL SECTION

SHEET
C-113A





FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUDE STR. 6103	SUBMITTED BY: DARRIN K. WILFORD, P.E. TYPE: D.K.M.	APPROVED BY: FILE NUMBER:	SOLICITATION NO.:	CONTRACT NO.:
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CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREUX AREA
DREDGE CHANNEL
CD6

SHEET
C-113B



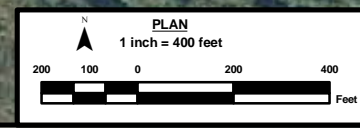
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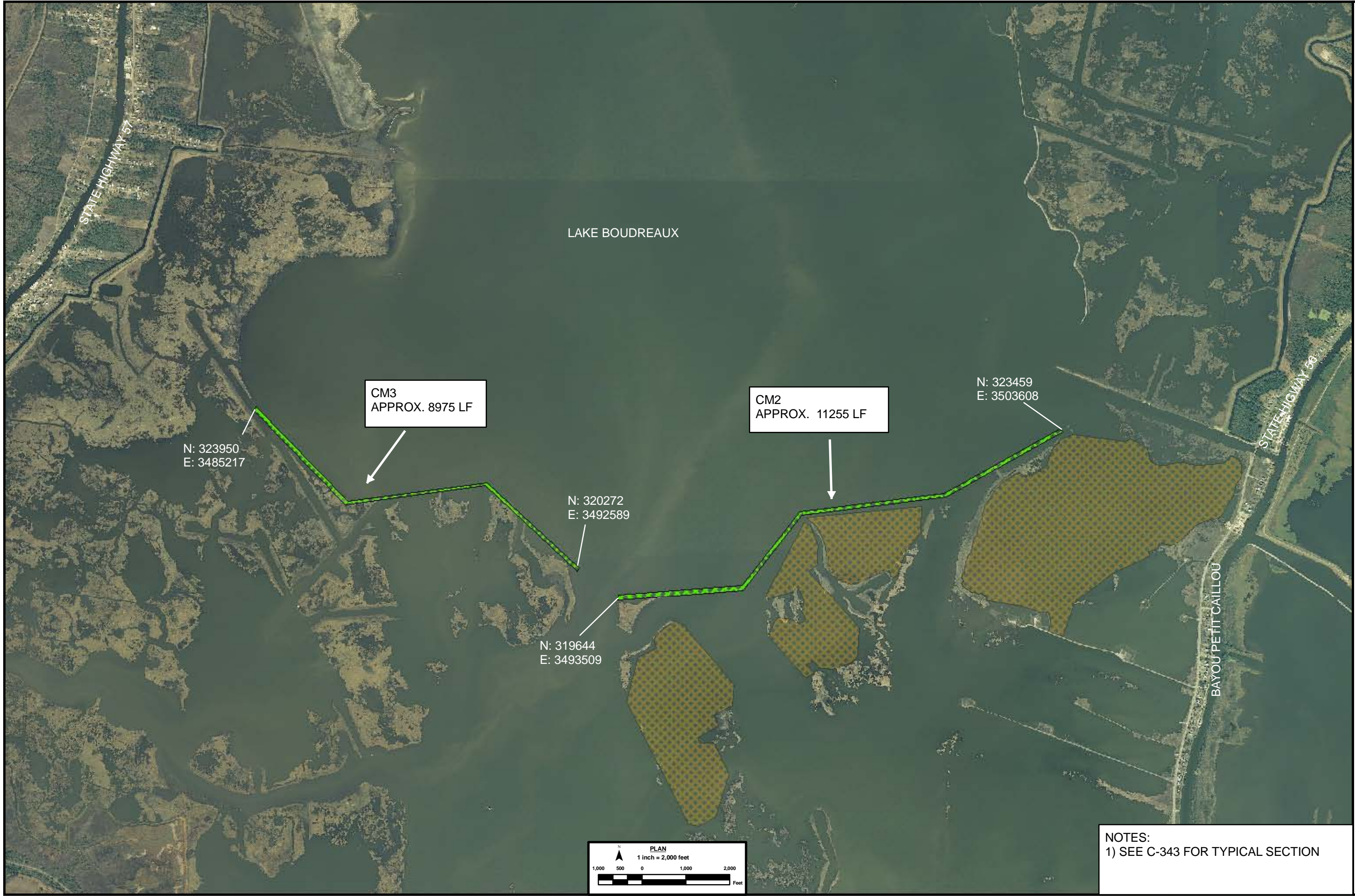
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	DOWN BY: TYPE:	PREPARED BY: D.K.M.	SUBMITTED BY:	DATE:	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
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CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAU AREA
DREDGE CHANNEL

CD7

SHEET
C-113C





LAKE BOUDREAUX

STATE HIGHWAY 57

STATE HIGHWAY 56

BAYOU PETIT CAILLOU

CM3
APPROX. 8975 LF

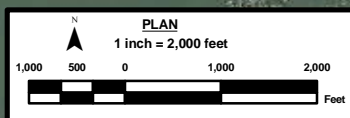
CM2
APPROX. 11255 LF

N: 323950
E: 3485217

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E: 3503608

N: 319644
E: 3493509



NOTES:
1) SEE C-343 FOR TYPICAL SECTION



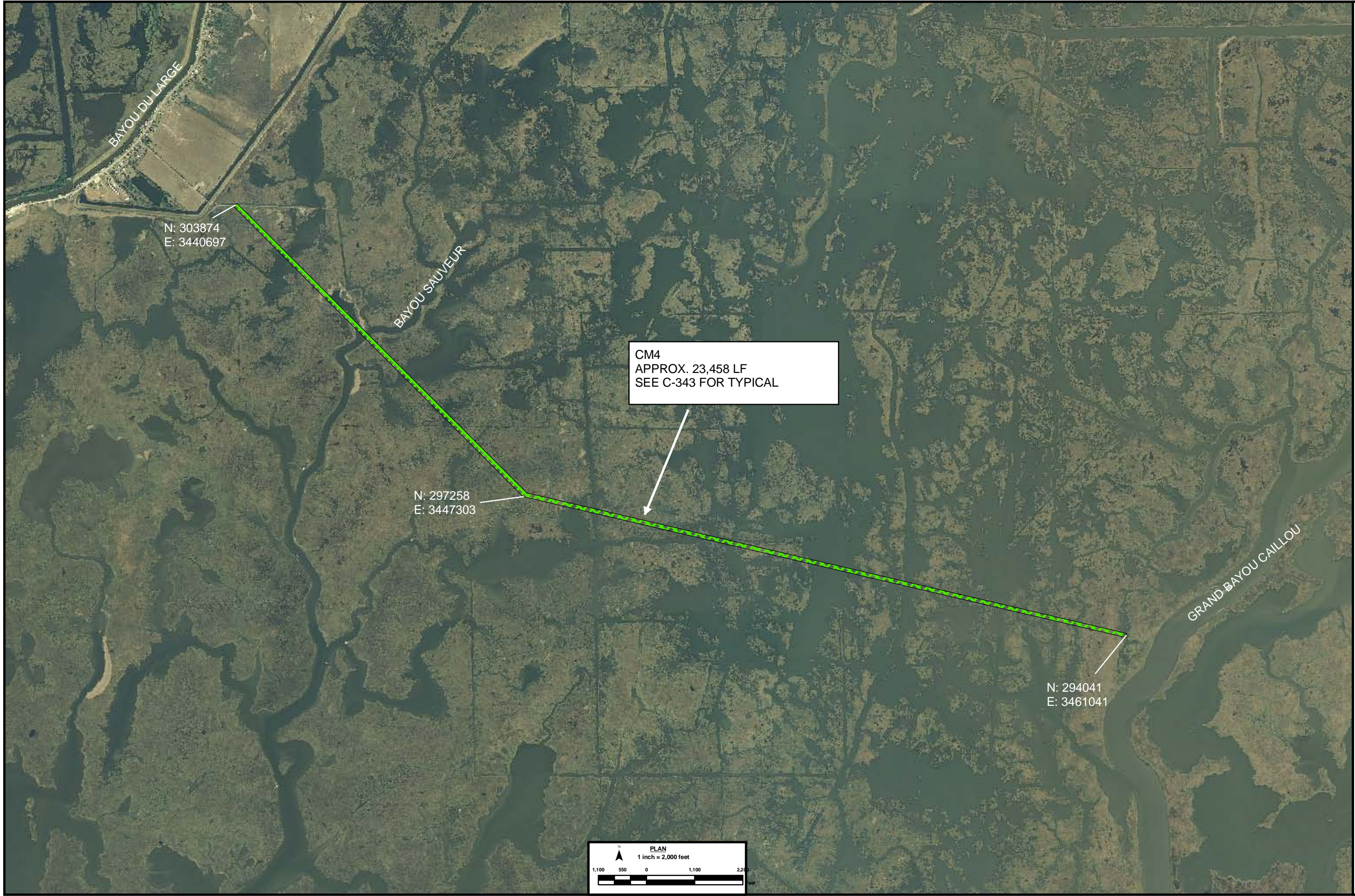
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		MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL - BOUDREAUX LAKE AREA

MARSH BERM
CM2, CM3

SHEET
C-114



BAYOU DU LARGE

N: 303874
E: 3440697

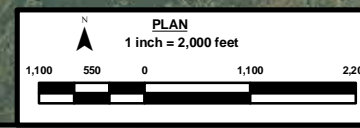
BAYOU SAUVEUR

N: 297258
E: 3447303

CM4
APPROX. 23,458 LF
SEE C-343 FOR TYPICAL

N: 294041
E: 3461041

GRAND BAYOU CAILLOU



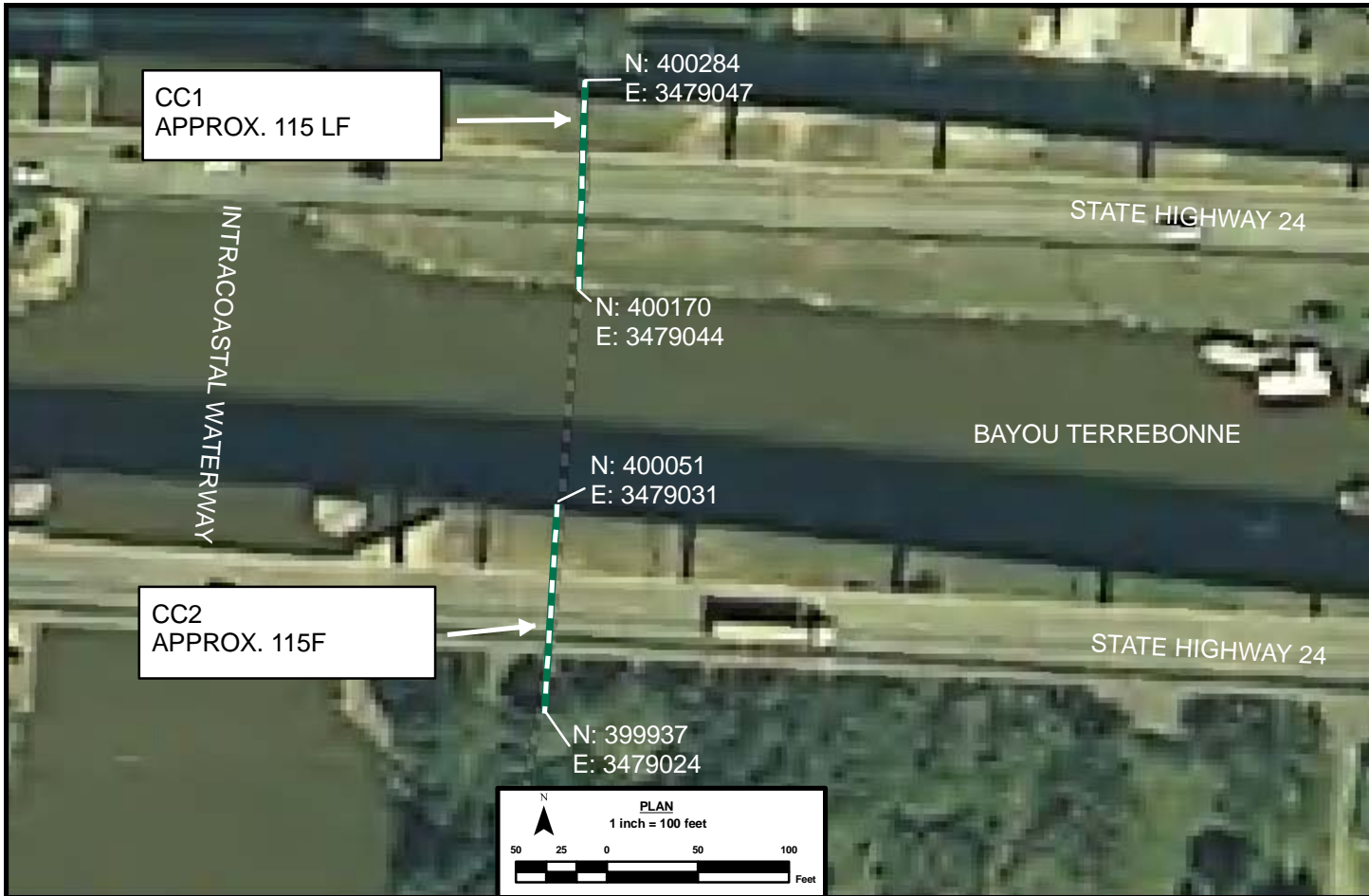
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DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DWN BY: T.P.E.	SOLICITATION NO.:
CHK BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAUX AREA

MARSH BERM
CM4

SHEET
C-114A



FEASIBILITY		DATE	APPR
		DESCRIPTION	MARK
DATE	APPR	MARK	APPR
DESCRIPTION	MARK	APPR	APPR

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY: D.K.M.	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER: 122 SPRUCE STR. 6103

CONVEY ATCHAFLAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAUX AREA
CULVERTS
CC2, CC3,
CC4

NOTES:
1.) CC1, CC2: SEE C-342 FOR FURTHER DETAILS
2.) CC3, CC4: SEE R-101, 301, 302 FOR FURTHER DETAILS



NOTES:
1.) SEE C-342 FOR TYPICAL SECTION



FEASIBILITY						
				MARK	DATE	APPR.
DESCRIPTION	DESCRIPTION	MARK	DATE	APPR.	DATE	APPR.

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY: D.K.M.	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUIELL STR. #1003	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAU AREA

CULVERTS
CC5, CC6,
CC7, CC8

SHEET
C-117A



NOTES:
1.) SEE C-342 FOR TYPICAL SECTION

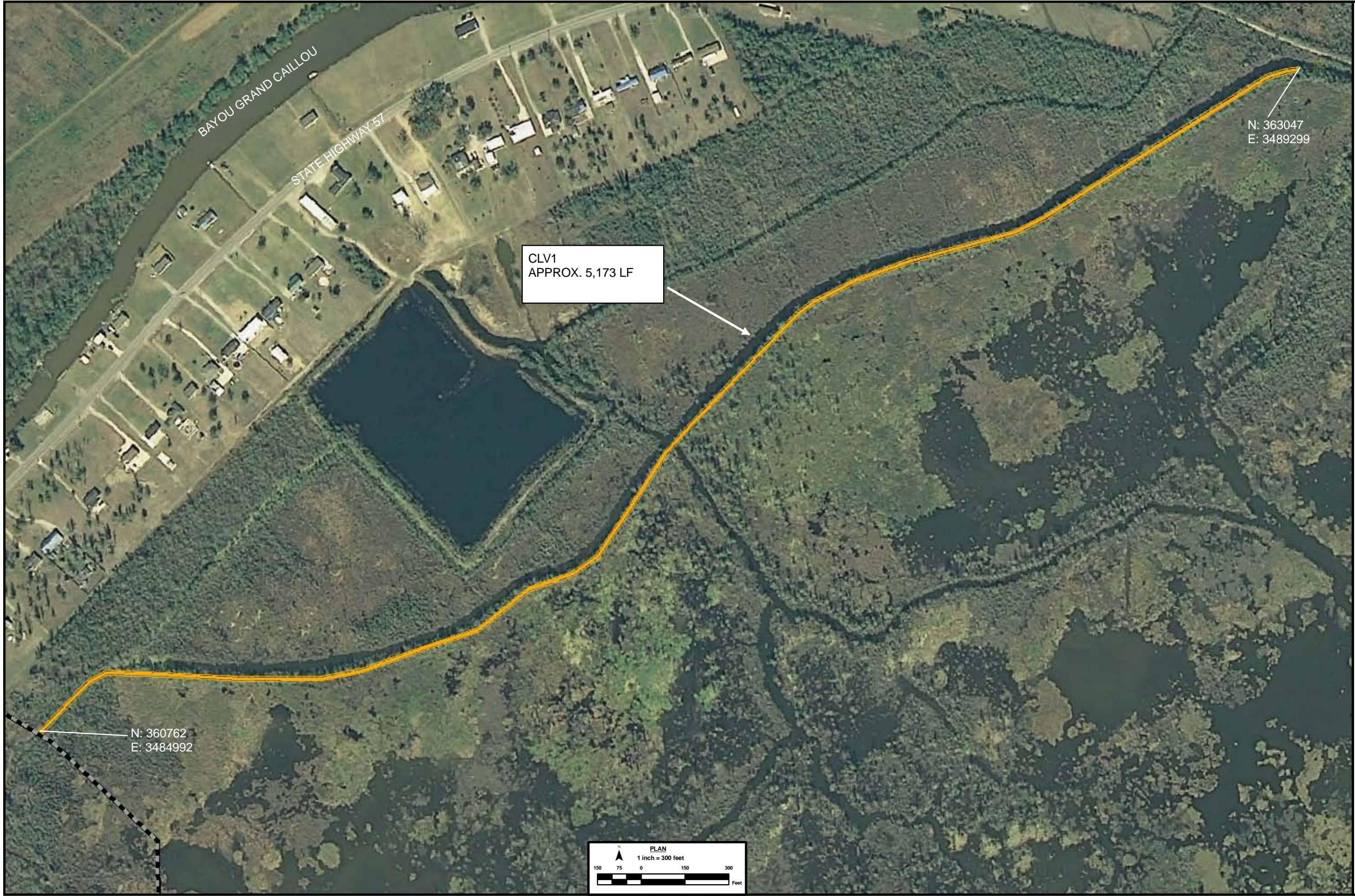


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MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUDE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAU AREA
CULVERTS
CC9, CC10,
CC11, CC12

SHEET
C-117B



FEASIBILITY		DATE	DATE	DATE
		APPR	MARK	APPR
MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: D.K.M.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	FILE NUMBER:
FILE NAME:	

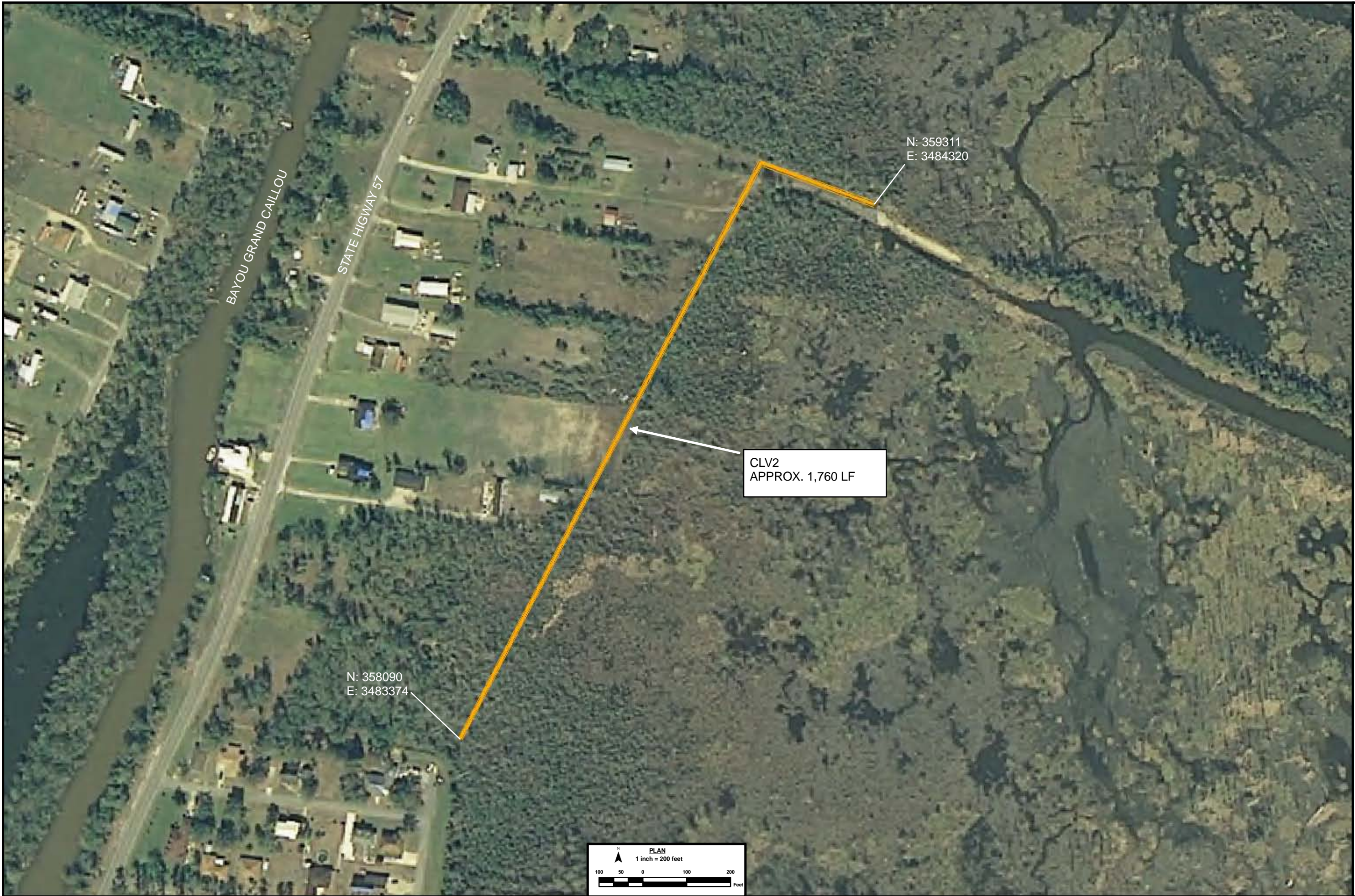
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUCE STR. 6103

CONVEY ATCHAFAËLA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAU AREA

LEVEE
CLV1

SHEET
C-118C



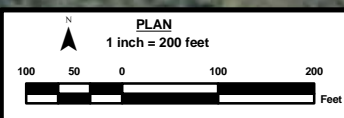
N: 358090
E: 3483374

N: 359311
E: 3484320

CLV2
APPROX. 1,760 LF

BAYOU GRAND CAILLOU

STATE HIGHWAY 57



FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	DESCRIPTION	DATE	APPR.

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLLOT SCALE:	FILE NUMBER:
SIZE:	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
CENTRAL- LAKE BOUDREAU AREA

LEVEE
CLV2

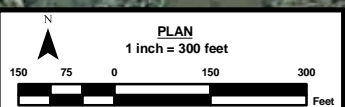
SHEET
C-118D



ES2
N: 381047
E: 3577892

BAYOU L'EAU BLUE

HIGHWAY 24



NOTES:
1.) ES2: SEE S-130,230,330 FOR FURTHER DETAILS



FEASIBILITY		MARK	DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	PLOT DATE:
FILE NAME:	FILE NUMBER:

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

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST- GRAND BAYOU AREA

STRUCTURES
ES2

SHEET
C-119



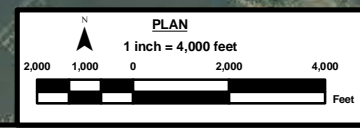
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		APPR. MARK	DESCRIPTION	DESCRIPTION
MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

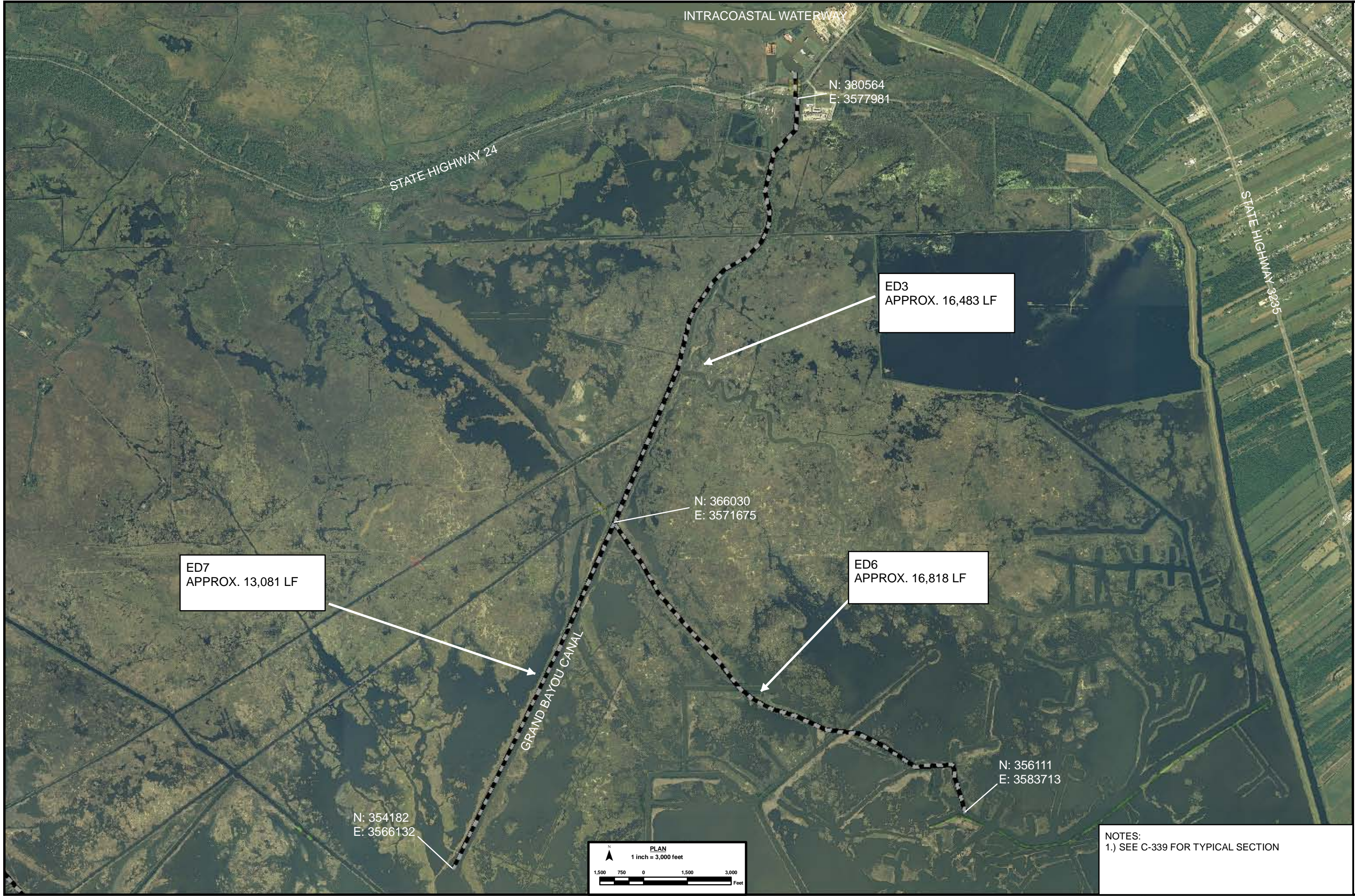
DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:	SOLICITATION NO.:
DRAWN BY: T.P.E.	CHK'D BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	PLotted DATE:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST- GRAND BAYOU AREA

DREDGE CHANNEL
ED2

SHEET
C-122





INTRACOASTAL WATERWAY

STATE HIGHWAY 24

STATE HIGHWAY 3235

GRAND BAYOU CANAL

N: 380564
E: 3577981

ED3
APPROX. 16,483 LF

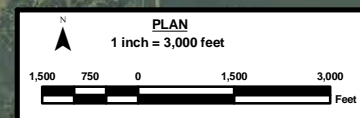
N: 366030
E: 3571675

ED6
APPROX. 16,818 LF

ED7
APPROX. 13,081 LF

N: 356111
E: 3583713

N: 354182
E: 3566132



NOTES:
1.) SEE C-339 FOR TYPICAL SECTION



FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	DESCRIPTION	DATE	APPR.

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
CHECKED BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRING STR. 6103

CONVEY ATCHAULAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST- GRAND BAYOU AREA
DREDGE CHANNEL
ED3, ED6,
ED7

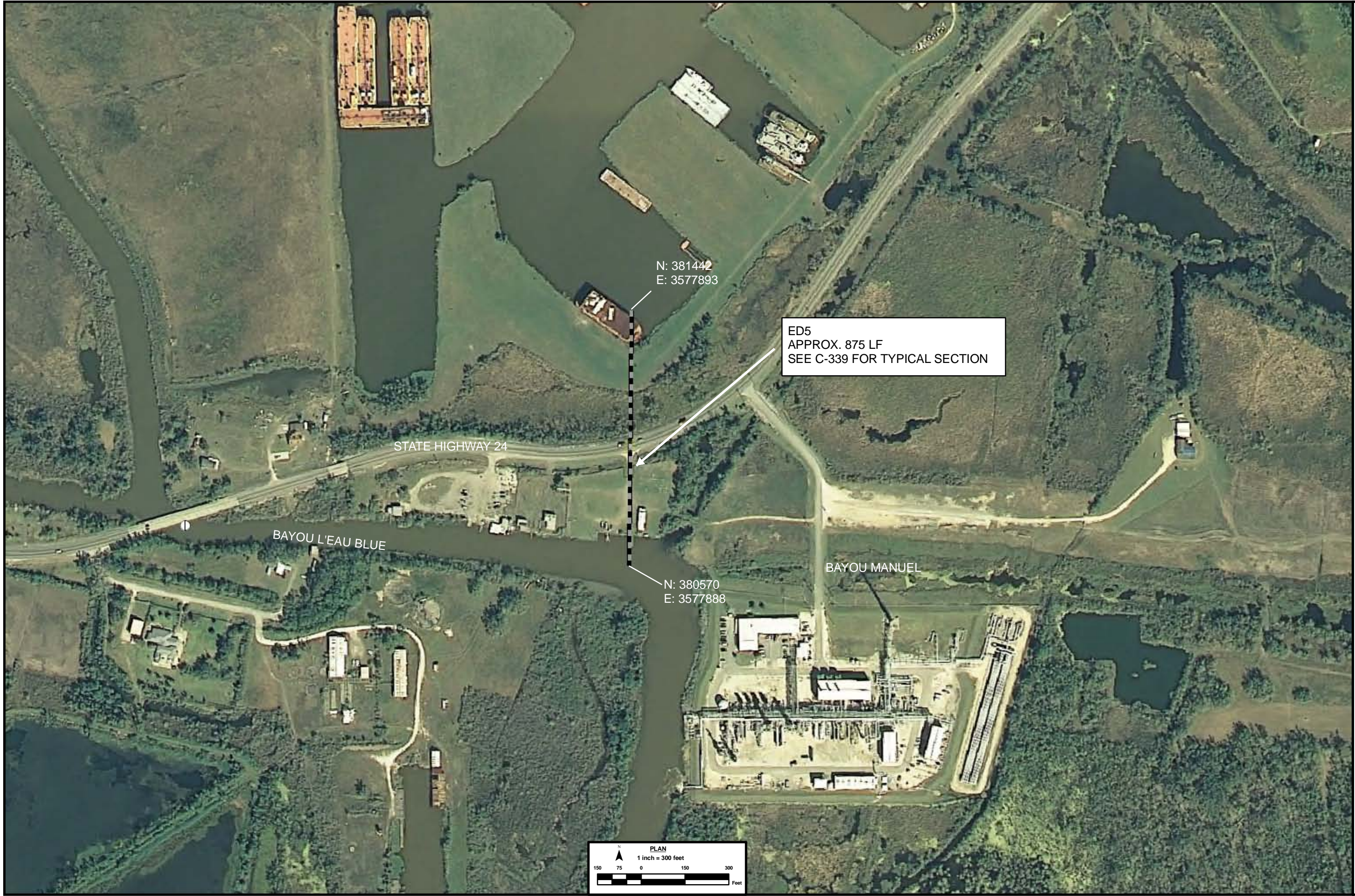
SHEET
C-123

MARK	DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:	SOLICITATION NO.:
DRAWN BY: T.P.E.	CHK'D BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:	FILE NUMBER:
PLOT SCALE:	FILE NAME:	FILE NAME:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT 1222 SPRUCE STR. 6103	

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST- GRAND BAYOU AREA
DREDGE CHANNEL
ED5

SHEET
C-124A



N: 381442
E: 3577893

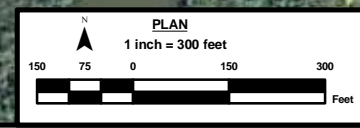
ED5
APPROX. 875 LF
SEE C-339 FOR TYPICAL SECTION

STATE HIGHWAY 24

BAYOU L'EAU BLUE

BAYOU MANUEL

N: 380570
E: 3577888





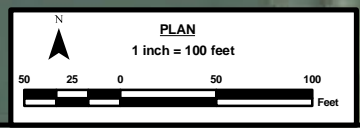
FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	DESCRIPTION	DATE	APPR.

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
FILE NO.:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST- GRAND BAYOU AREA

PLUG
EP7

SHEET
C-124B



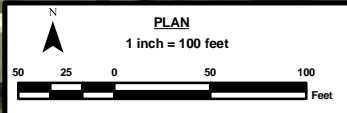
EP8
 APPROX. 200 LF
 SEE C-340 FOR TYPICAL SECTION

N: 380727
 E: 3576486

HIGHWAY 24

BAYOU L'EAU BLUE

N: 380665
 E: 3576294



FEASIBILITY		DATE	DATE	DATE
		APPR. MARK	DESCRIPTION	APPR.
MARK	DESCRIPTION	DATE	APPR. MARK	DATE

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 EAST- GRAND BAYOU AREA
 PLUG
 EP8

SHEET
 C-124C



FEASIBILITY		DATE	DATE	DATE
		MARK	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLLOT SCALE:	FILE NUMBER:
SIZE:	FILE NAME:

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

U.S. ARMY CORPS OF ENGINEERS
1222 SPRUDE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST GRAND BAYOU AREA

CULVERTS
EC2, EC3.

SHEET
C-132



NOTES:
 1.) EC5: SEE S-140, 240 FOR FURTHER DETAILS
 2.) EC6, EC7: SEE C-342 FOR TYPICAL SECTION



FEASIBILITY		DATE	DATE	DATE
		APPR	APPR	APPR
MARK	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY: D.K.M.	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 EAST GRAND BAYOU AREA
 CULVERTS
 EC5, EC6,
 EC7

SHEET
 C-133

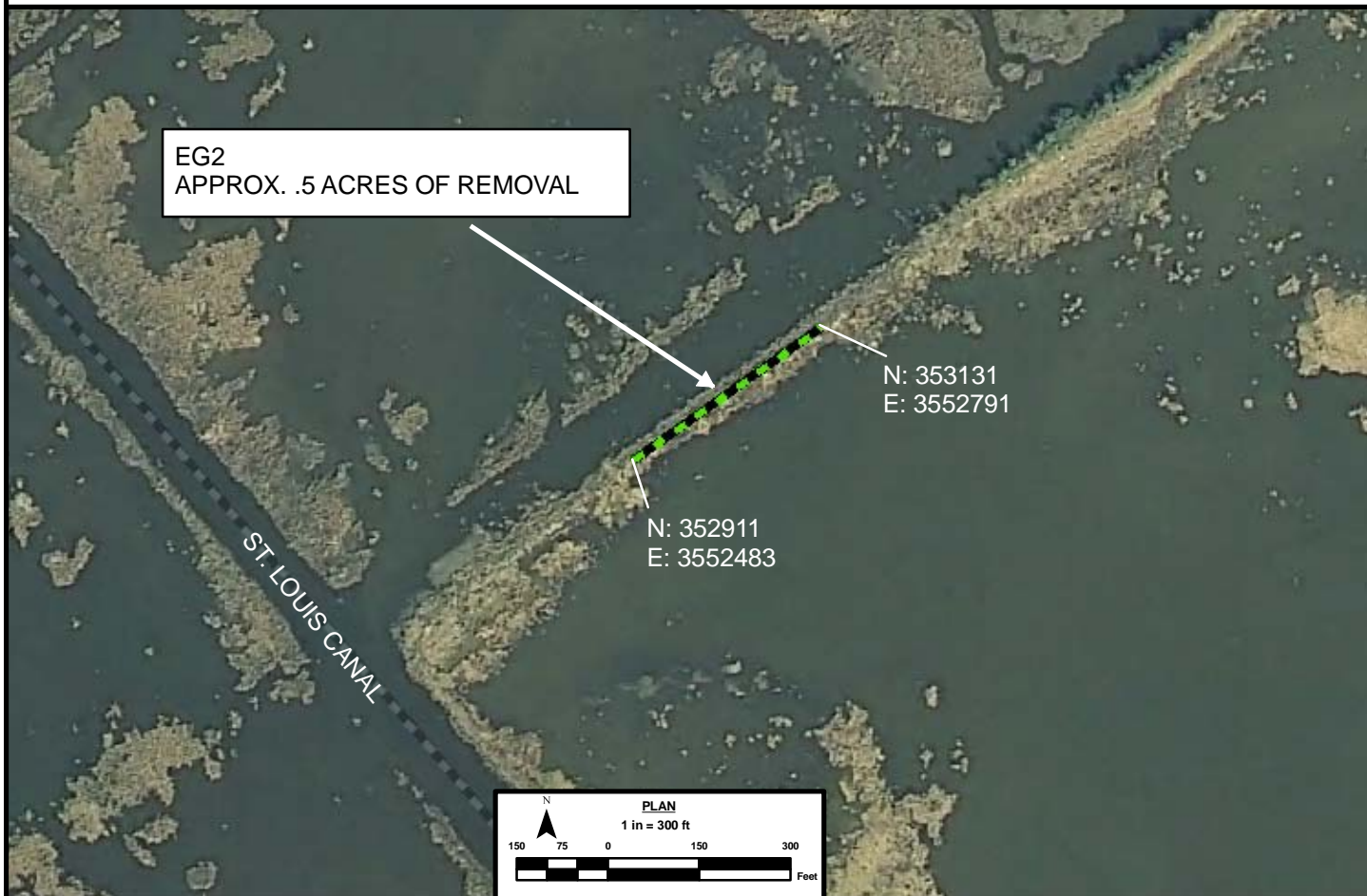
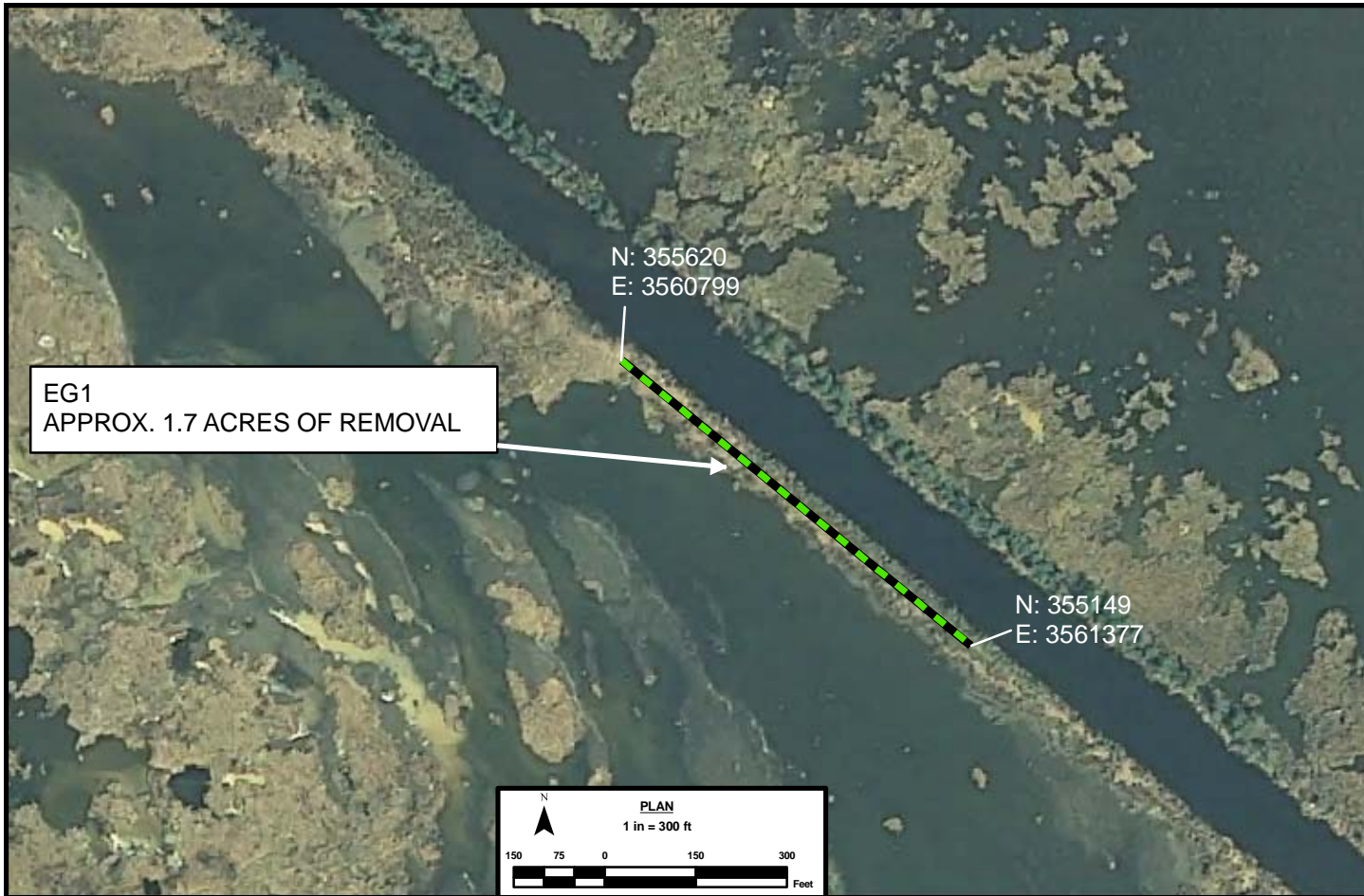


FEASIBILITY		DATE	DATE	DATE
		APPR. MARK	DESCRIPTION	APPR.
MARK	DESCRIPTION	DATE	APPR. MARK	DATE

DESIGNED BY: DARRIN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
CHECKED BY: D.K.M.	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST GRAND BAYOU AREA

REMOVALS
EX1, EX2



NOTES:
1.) SEE C-342 FOR TYPICAL SECTION

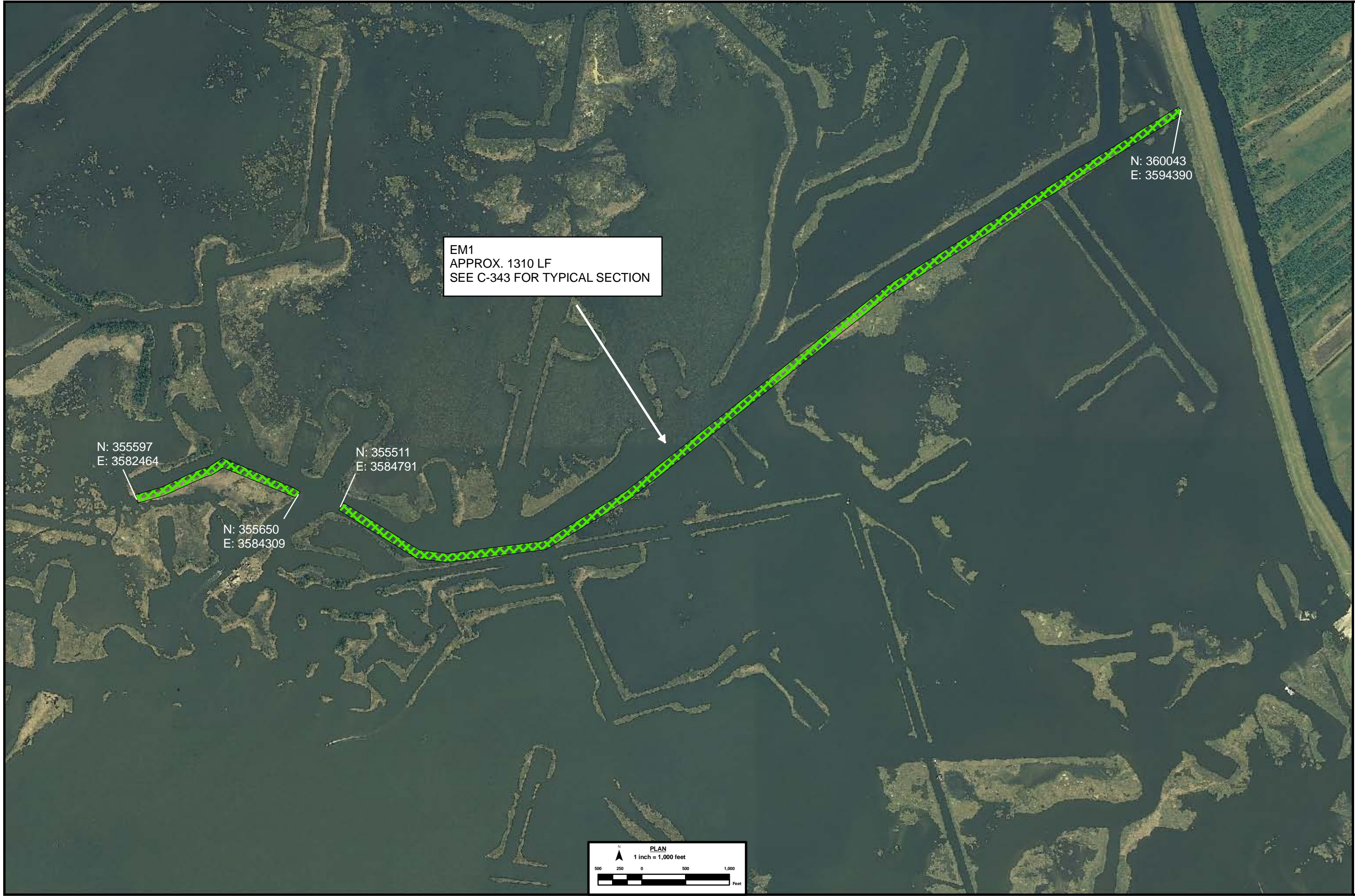


FEASIBILITY		MARK	DATE	APPR. MARK	DATE	APPR.
		DESCRIPTION	DATE	APPR. MARK	DATE	APPR.

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY: D.K.M.	CONTRACT NO.:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	FILE NUMBER:
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	FILE NAME:

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST GRAND BAYOU AREA

SPOIL GAPS
EG1, EG2



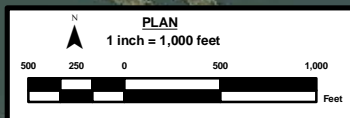
EM1
 APPROX. 1310 LF
 SEE C-343 FOR TYPICAL SECTION

N: 355597
 E: 3582464

N: 355650
 E: 3584309

N: 355511
 E: 3584791

N: 360043
 E: 3594390



FEASIBILITY		DATE	DATE	DATE	DATE
		MARK	DESCRIPTION	APPR. MARK	APPR. DATE

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: T.P.E.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLLOT SCALE:	FILE NUMBER:
SIZE:	FILE NAME:

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

U.S. ARMY CORPS OF ENGINEERS
 1222 SPRING STR. 6103

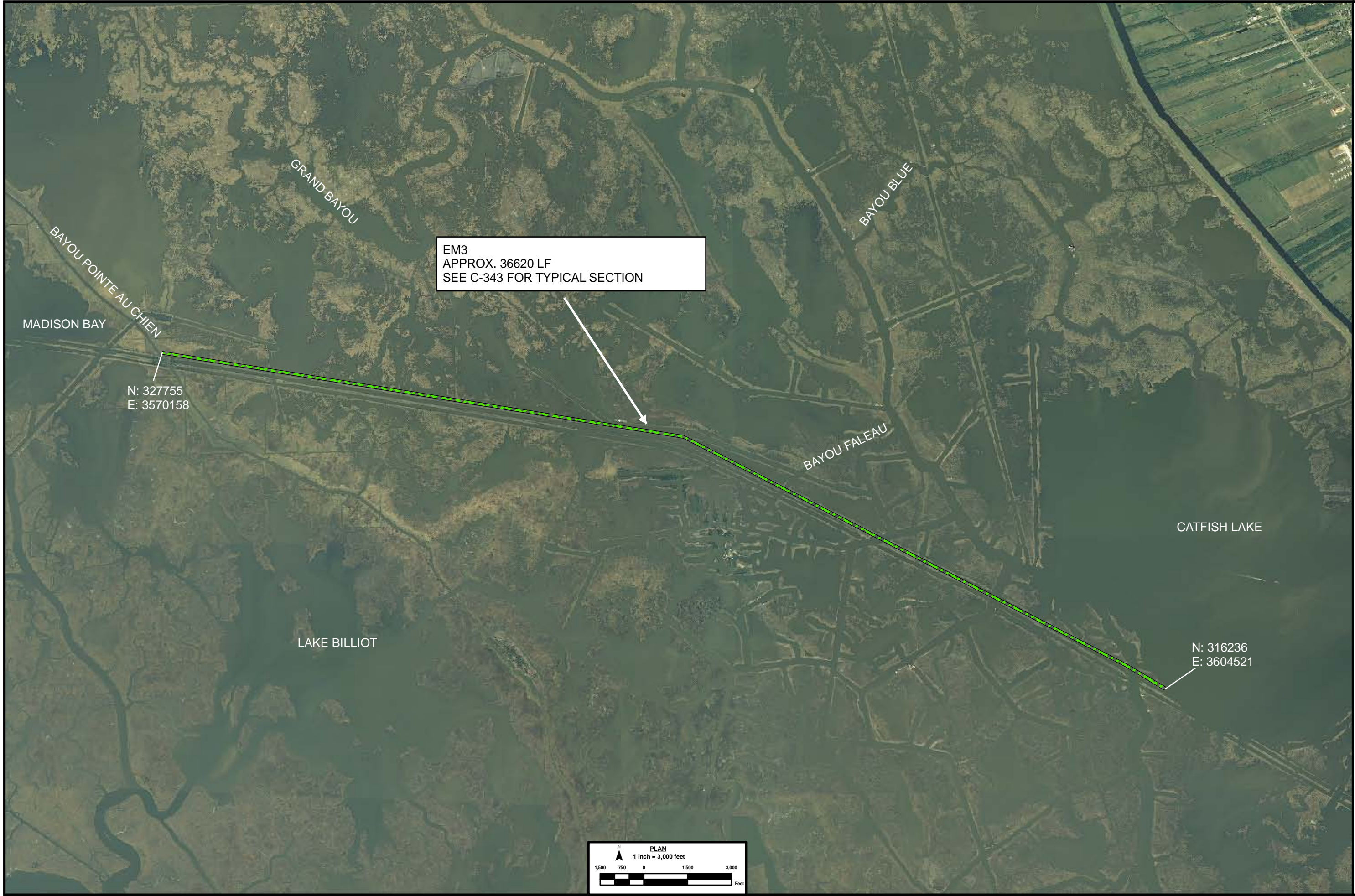
CONVEY ATCHAFALAYA RIVER WATER TO
 NORTHERN TERREBONNE MARSHES
 EAST GRAND BAYOU AREA
 MARSH BERM CREATION
 EM1

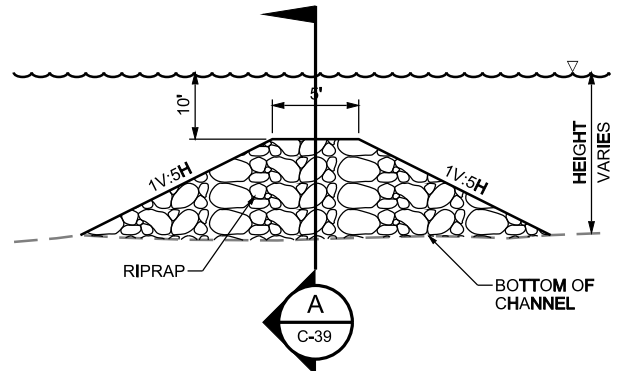
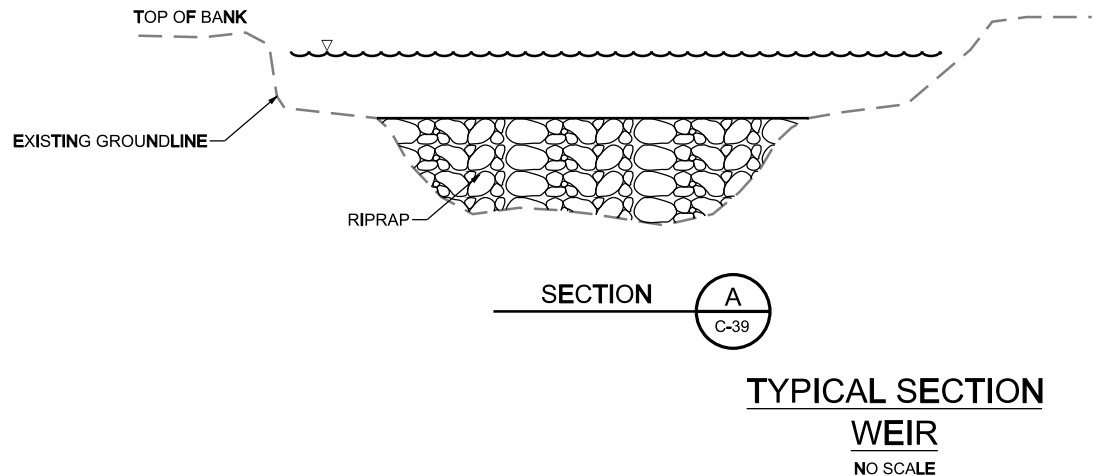
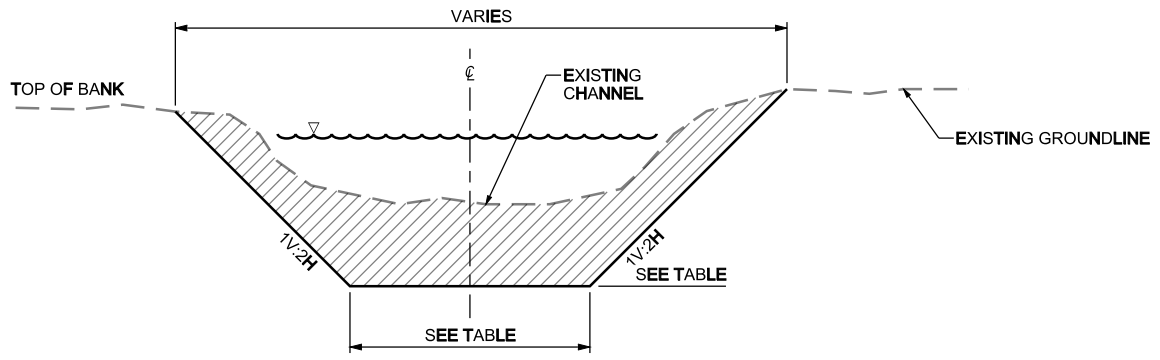
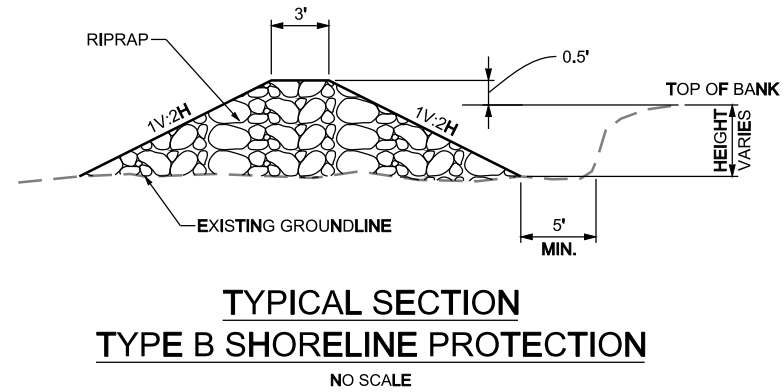
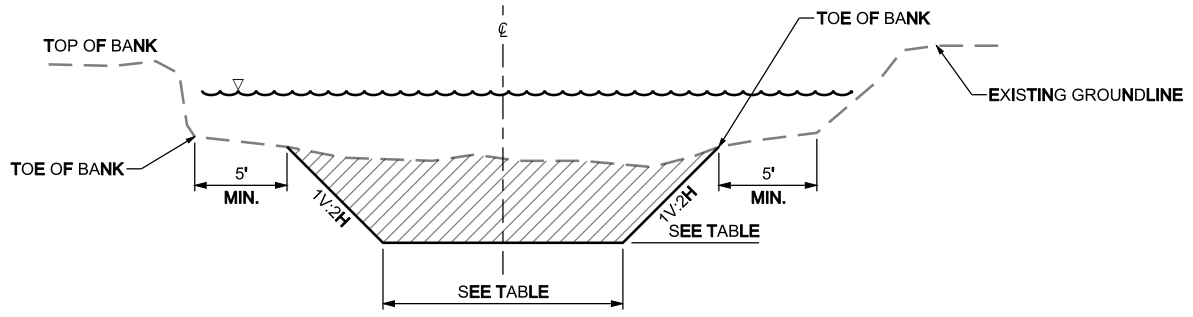
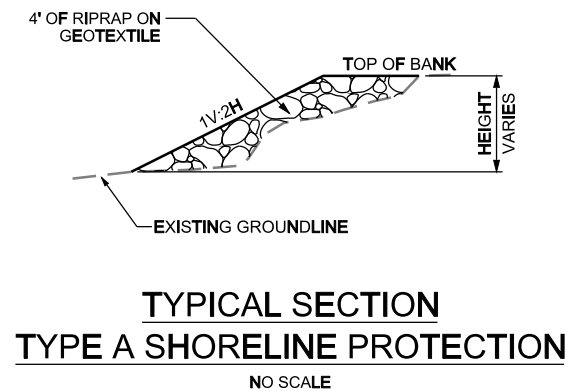
SHEET
 C-137

FEASIBILITY		DATE	DATE	DATE	DATE
		MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: DARREN K. WILFORD, P.E.	DATE:
DRAWN BY: D.K.M.	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE:	FILE NUMBER:
FILE NAME:	FILE NAME:
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	
U.S. ARMY CORPS OF ENGINEERS 1222 SPRUCE STR. 6103	

CONVEY ATCHAFALAYA RIVER WATER TO
NORTHERN TERREBONNE MARSHES
EAST GRAND BAYOU AREA
MARSH BERM CREATION
EM3





DREDGE CHANNEL TABLE			
DREDGE CHANNEL ID	BOTTOM WIDTH	BOTTOM ELEVATION	TYPE
ED2	50'	-8'	A
ED3	470'	-14'	B
ED5	470'	-14'	B
ED6	290'	-14'	B
ED7	150'	-14'	B
CD1	70'	-10'	
CD2	45'	-10'	
CD3	70'	-10'	
CD4	70'	-20'	A
CD6	45'	-10'	
CD7	70'	-10'	
WD2	200'	-7'	A
WD3	50'	-36'	B



DATE	APPR.
	DATE
DESCRIPTION	MARK
	DESCRIPTION
MARK	MARK
	MARK

DESIGNED BY: LEFORD, P.E.	DATE	SOLUTIONS, INC.
CHECKED BY: LAM, WRTT	DATE	1222 SPRUCE STR. 63103
SUBMITTED BY: GARY, J. LEE, P.E.	DATE	FILE NUMBER
FILE NAME: C339.dgn	DATE	FILE NUMBER

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
TERREBONNE PARISH, LOUISIANA

TYPICAL SECTIONS
SHORELINE PROTECTION
DREDGED CHANNEL & WEIRS

SHEET IDENTIFICATION
C-339

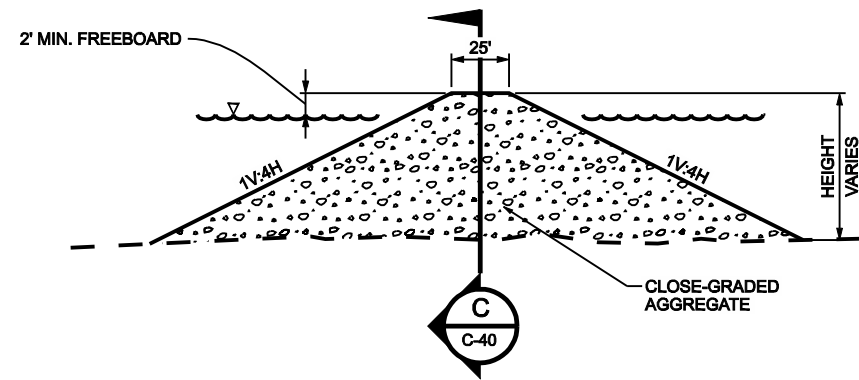
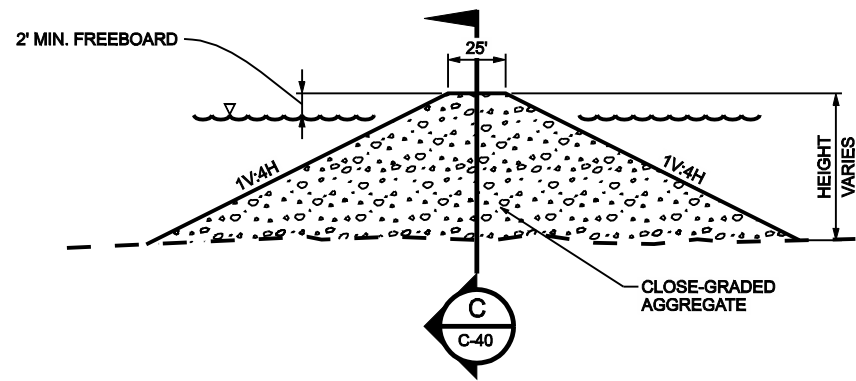
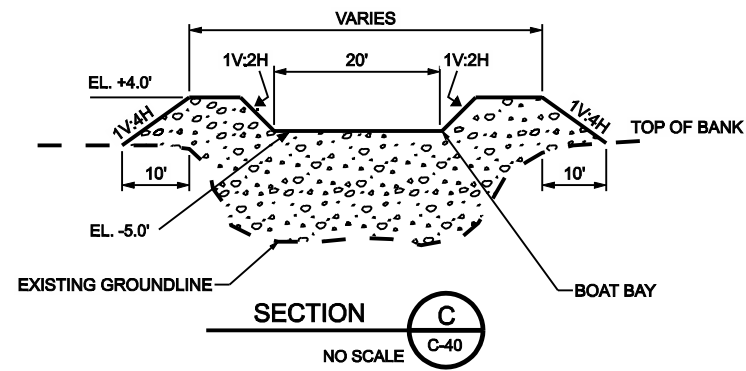
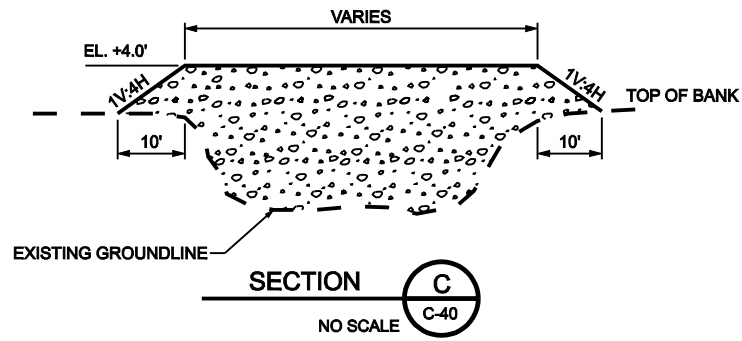
1

2

3

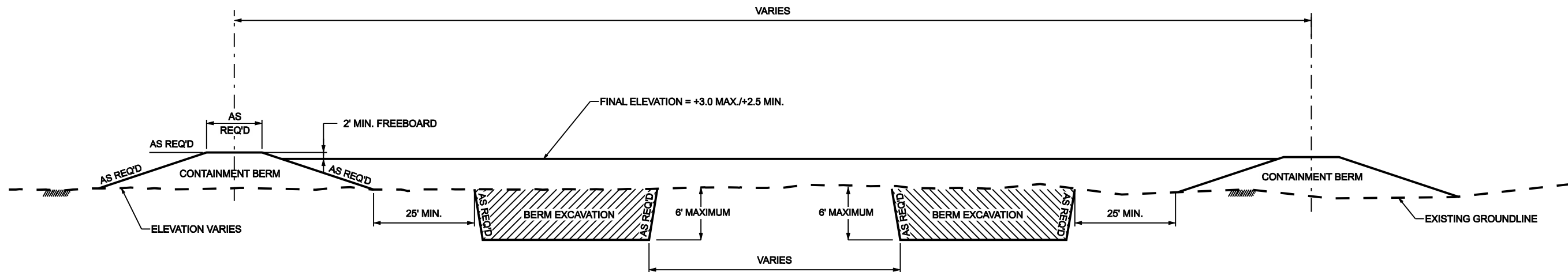
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5



TYPICAL SECTION TYPE A
PLUG
NO SCALE

TYPICAL SECTION TYPE B
PLUG WITH BOAT BAY
NO SCALE



TYPICAL SECTION
MARSH CREATION
NO SCALE

FEASIBILITY	DATE	APPR
	DESCRIPTION	MARK
	DATE	APPR
	DESCRIPTION	MARK

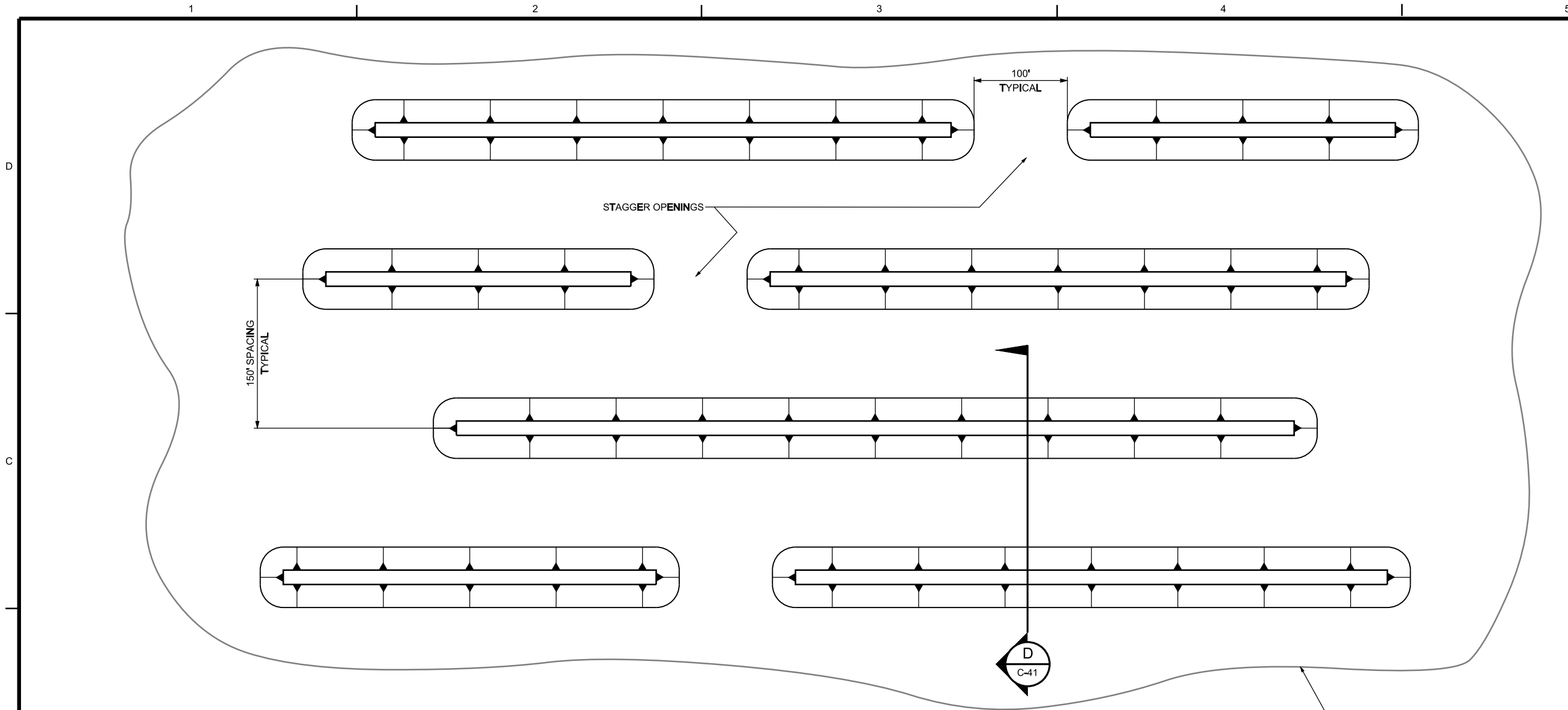
DESIGNED BY: FORD, P.E.	DATE:	SOLUTION NO.: W122P/04-0000
DRAWN BY: L.H. WHITT	CAD BY:	CONTRACT NO.:
SUBMITTED BY: GARY J. LEE, P.E.	FILE NAME:	FILE NUMBER:
PLOT SCALE: 1:1	ANSI D	SHORT TITLE/SPECIFICATIONS:

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

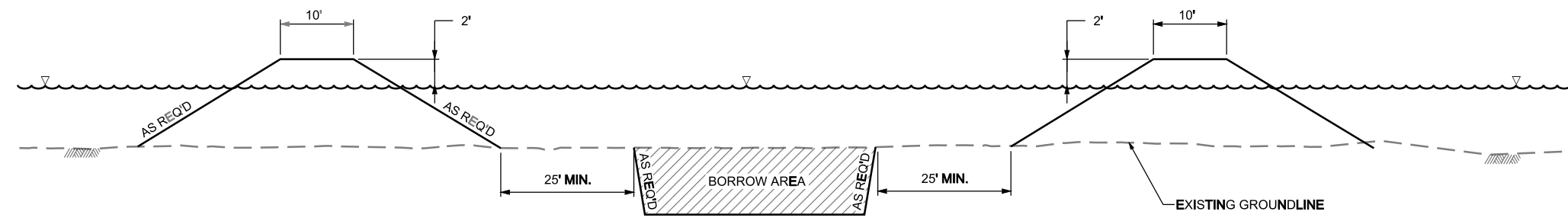
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
1222 SPRUCE STR. 63103

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
TERREBONNE PARISH, LOUISIANA

TYPICAL SECTIONS
PLUG AND MARSH CREATION



TYPICAL PLAN - TERRACING
NO SCALE



TYPICAL SECTION - TERRACING
NO SCALE



FEASIBILITY	DATE	DATE
	APPR. MARK	APPR. MARK
	DESCRIPTION	DESCRIPTION
	MARK	MARK
	MARK	MARK

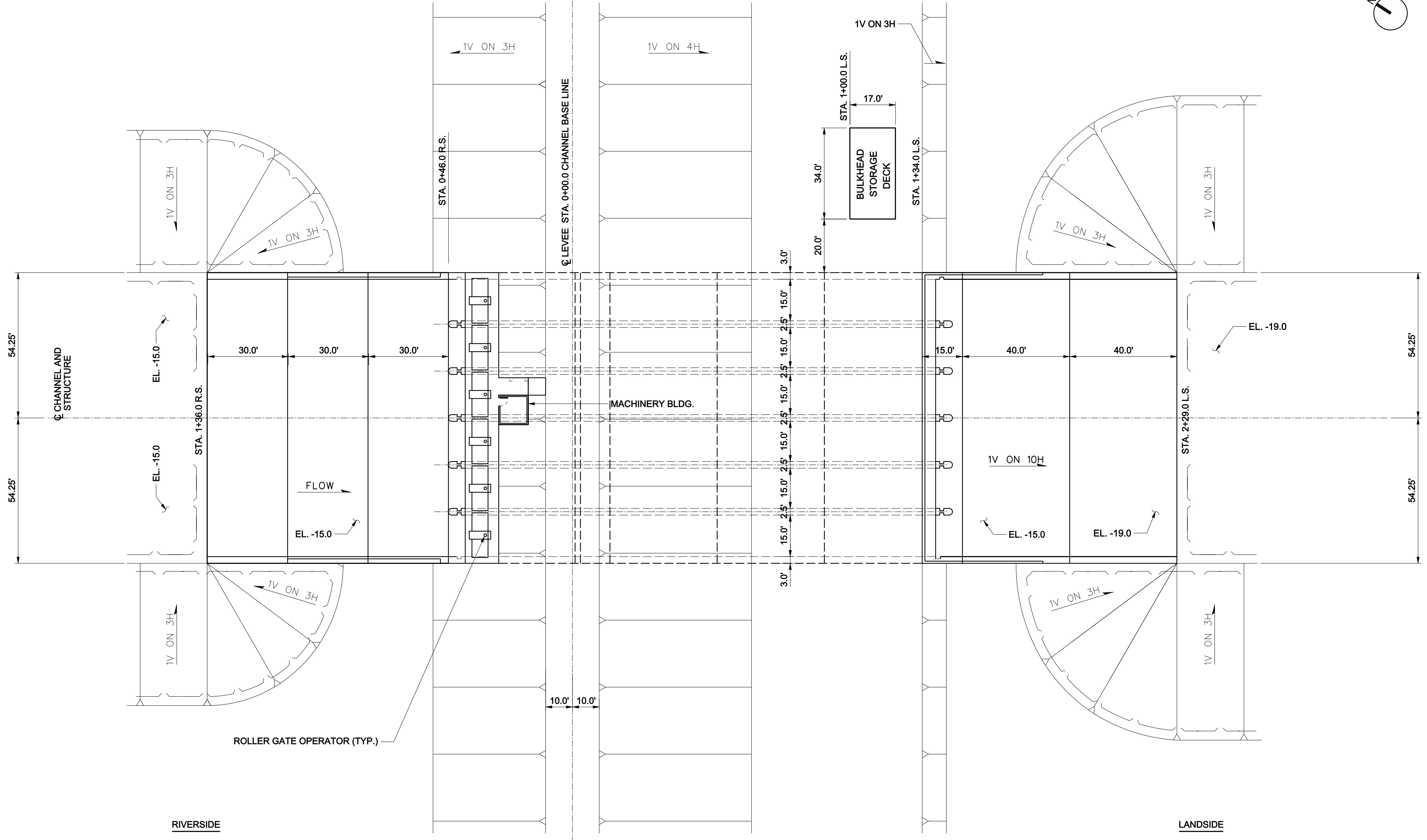
DESIGNED BY: L. W. WITT	CHECKED BY: GARY J. LEE	DATE: 11/20/2003
SUBMITTED BY: GARY J. LEE	FILE NAME: C-341.dgn	FILE NUMBER: X
CONTRACT NO.:	CONTRACT NO.:	CONTRACT NO.:
DESIGN NO.:	DESIGN NO.:	DESIGN NO.:
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
TERREBONNE PARISH, LOUISIANA

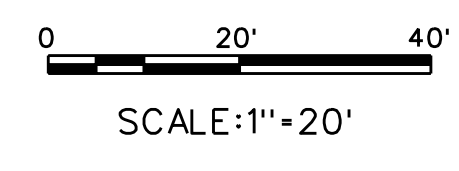
TYPICAL PLAN AND SECTION
TERRACING

SHEET IDENTIFICATION
C-341

A B C D



SITE PLAN
SCALE 1" = 20'



FEASIBILITY		DATE	DATE
		DESCRIPTION	DESCRIPTION
APPR. MARK	APPR. MARK	DATE	DATE

DESIGNED BY: MEL J. STOKL, P.E.	DATE: 10/29/2009
DWN BY: BMM	SOLICITATION NO.:
SUBMITTED BY: STEPHEN G. PARSONS, P.E.	CONTRACT NO.:
PLOT SCALE: 1" = 1'	PLOT DATE: 10/29/2009
ANSI D	FILE NUMBER: N:\New Orleans\Abarajaya\Charleston\Structs\101.dwg

ATOHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE WS4
STRUCTURAL
6 - 15' x 15' GATED BOX CULVERTS
SITE PLAN

SHEET IDENTIFICATION
S-101

1

2

3

4

5

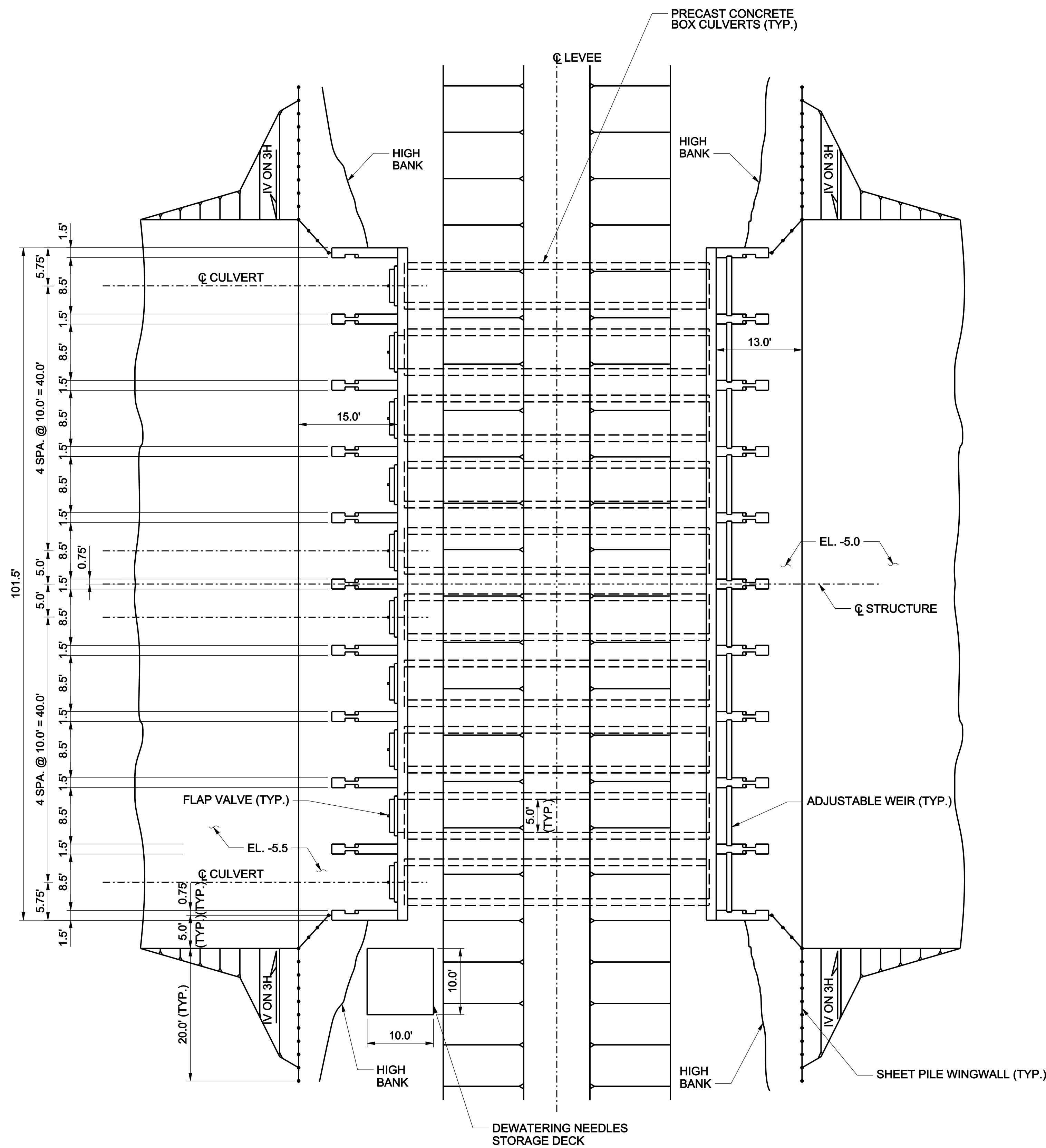
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C

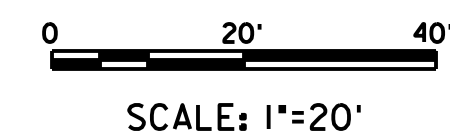
B

A

GRAND BAYOU



SITE PLAN
SCALE 1" = 20'



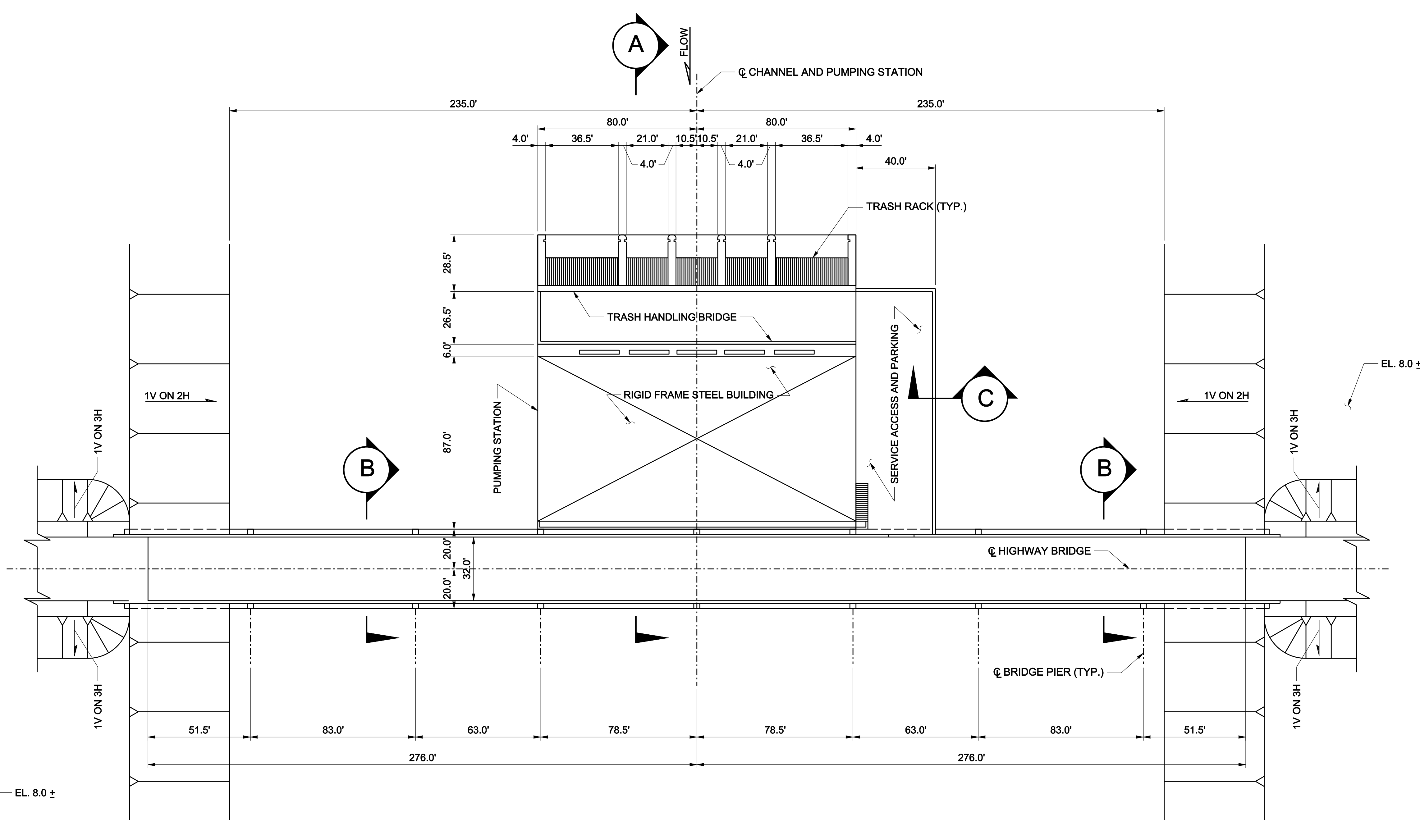
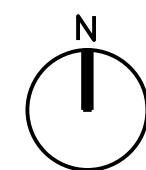
FEASIBILITY		DATE	APPR.
		DATE	APPR.
DESCRIPTION		DATE	APPR.
DESCRIPTION		DATE	APPR.

DESIGNED BY: MELISSA SCHMIDT, P.E.	CHECKED BY: MELISSA SCHMIDT, P.E.	DATE: 10/29/2009	SOLICITATION NO.:
DRAWN BY: BRIAN M. MAS	APPROVED BY: STEPHEN G. PARKAS, P.E.	CONTRACT NO.:	
PROJECT NAME: ATLAFALAYA RIVER	FILE NAME: N:\New Orleans\Atlatfayal\Charleston\Strud103.dwg	FILE NUMBER:	
PROJECT LOCATION: NORTHERN TERREBONNE MARSHES	SCALE: 1:1		

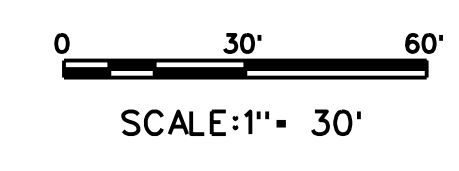
ATLAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE ECS

STRUCTURAL
10 - 5' x 5' GATED BOX CULVERTS
SITE PLAN

SHEET IDENTIFICATION
S-110



SITE PLAN
SCALE 1" = 30'



FEASIBILITY		DATE	DATE
		APPROVAL	APPROVAL
DESCRIPTION	DESCRIPTION	DATE	DATE
MARK	MARK	DATE	DATE

DESIGNED BY: D.E. SCHMIDT, P.E.	CHECKED BY: M.S. MAS	DATE: 10/29/2009	SOLICITATION NO.:
DRAWN BY: B.M.W.	APPROVED BY: S. PARKAS, P.E.	CONTRACT NO.:	
PROJECT NAME: U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI 63105-2833	FILE NUMBER: 10292009	FILE NAME: N:\New Orleans\Atchafalaya\Charleston\Struct\190.dwg	

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE ESZ
STRUCTURAL
4000 CFS PUMP STATION AND BRIDGE
SITE PLAN

SHEET IDENTIFICATION
S-130

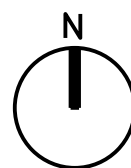
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2

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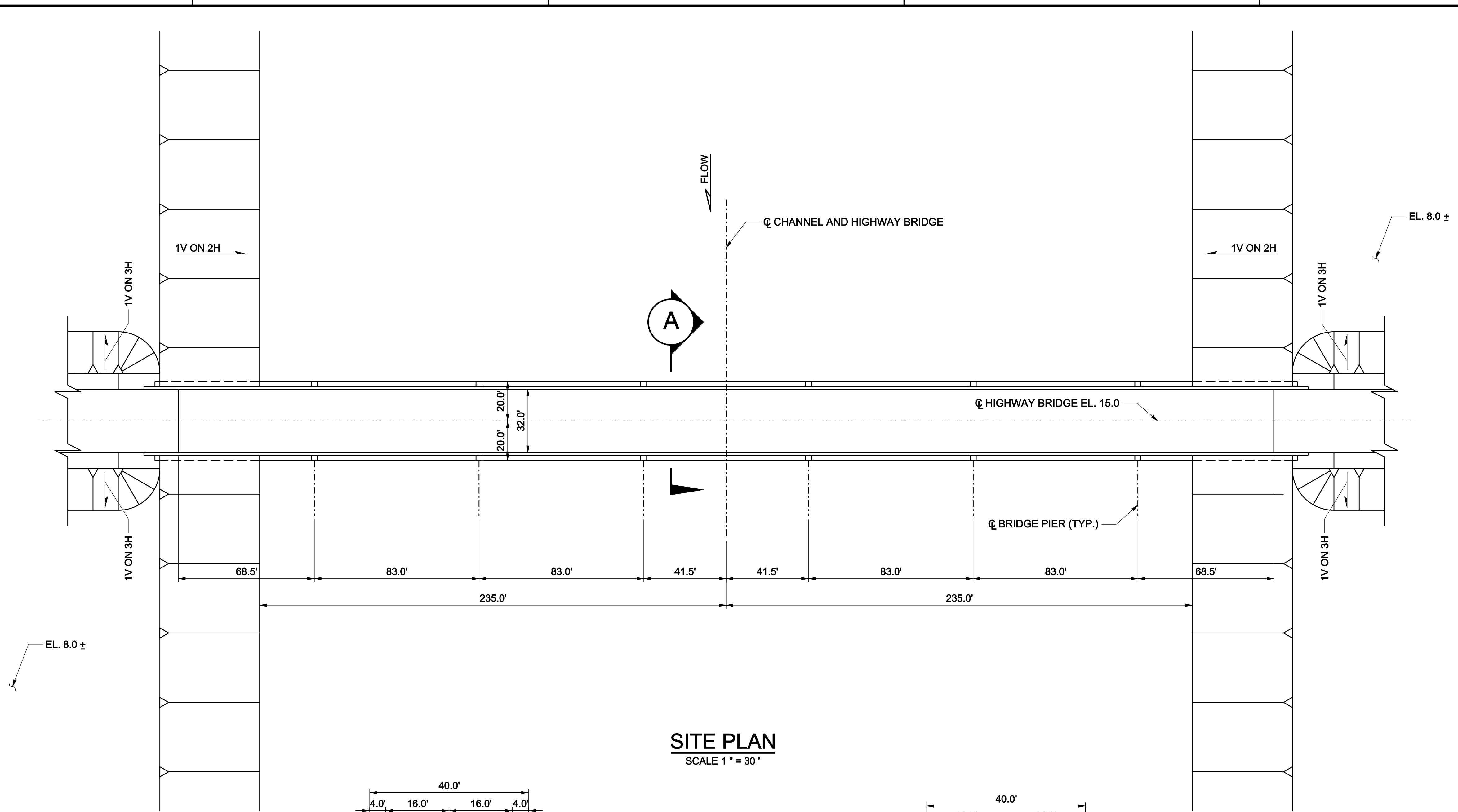


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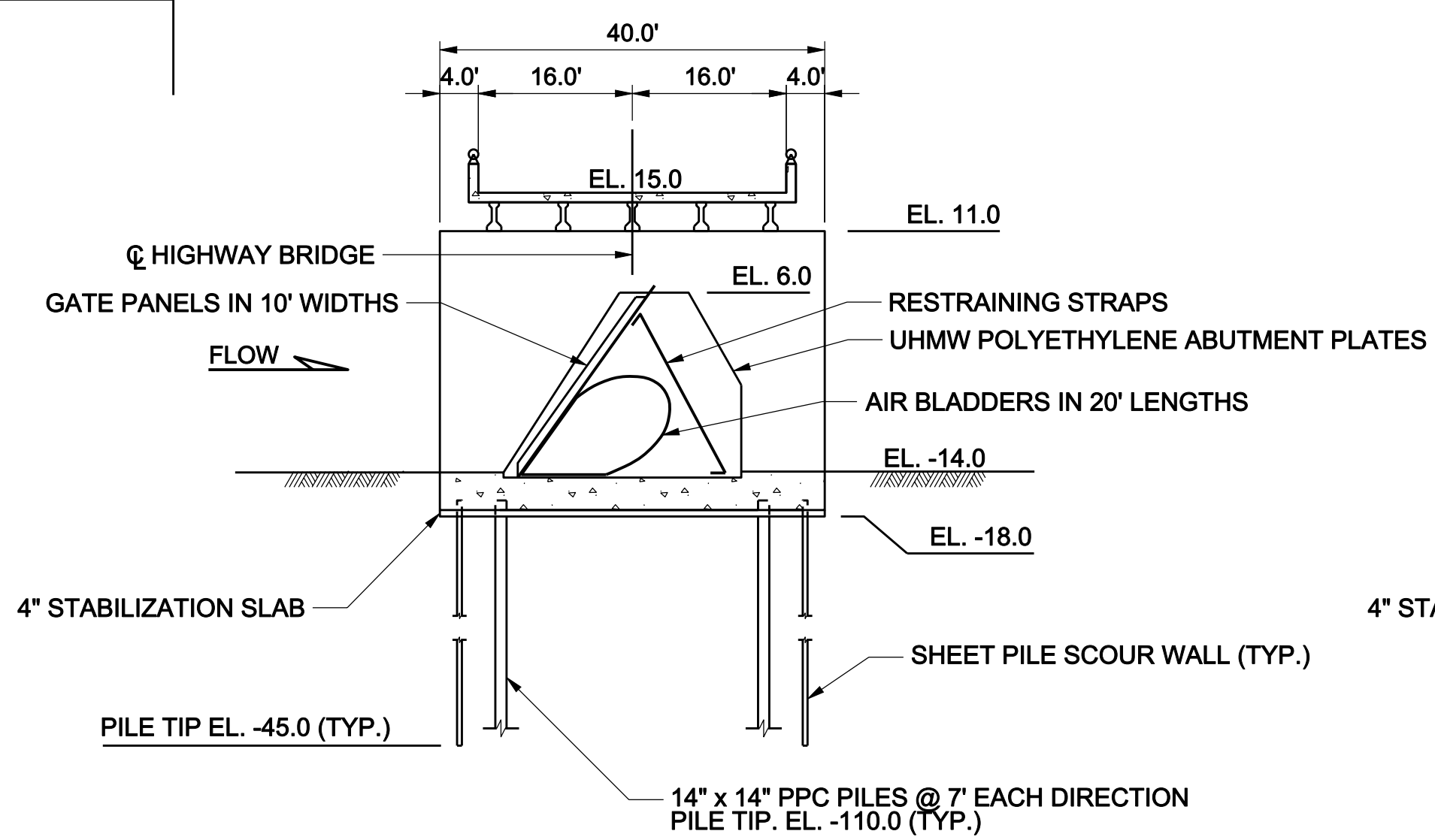
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B

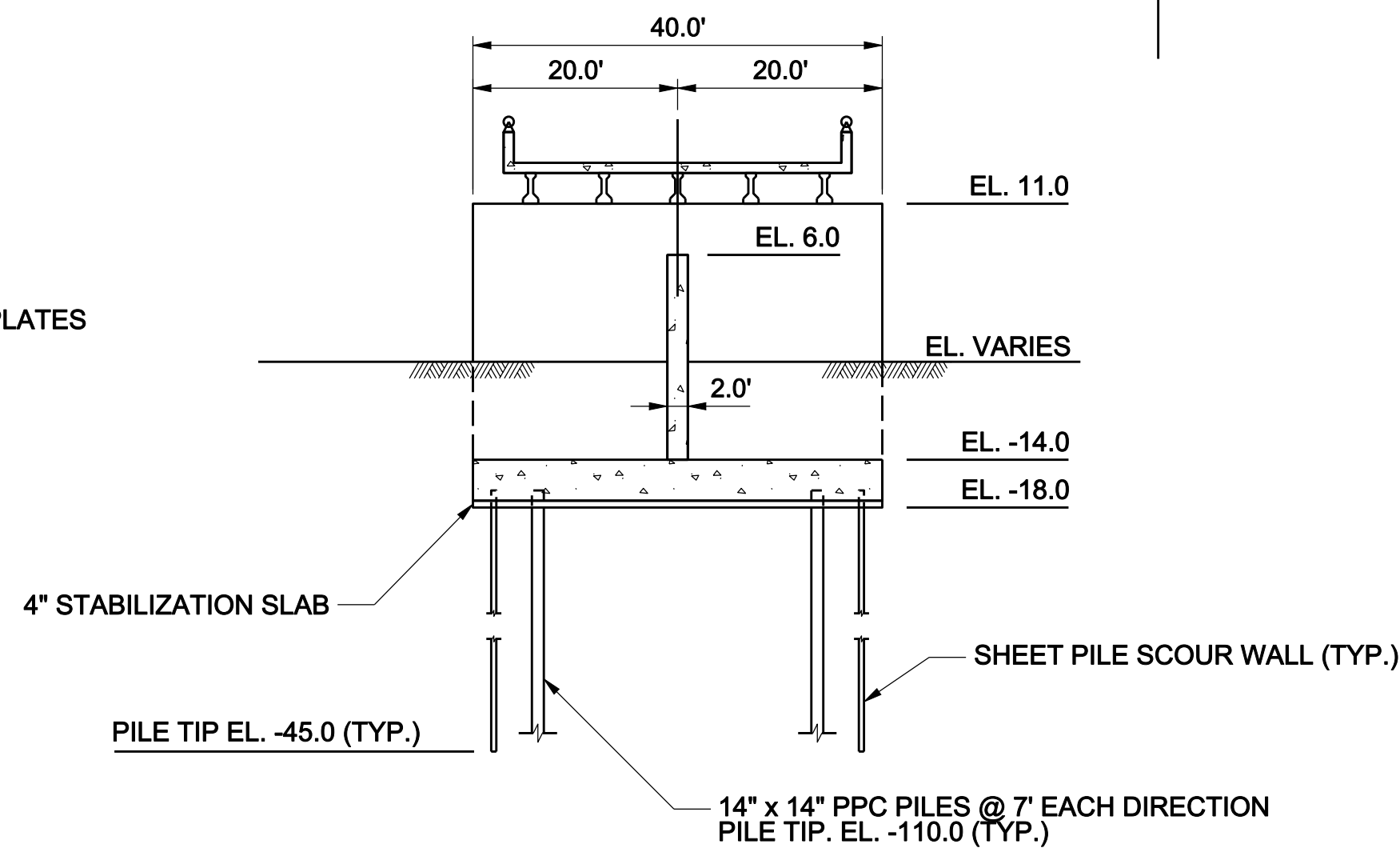
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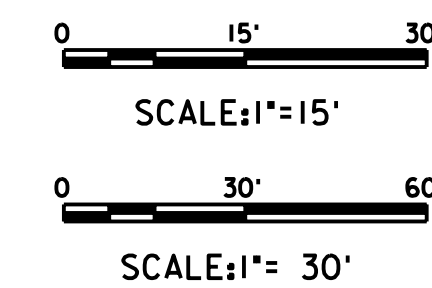
SITE PLAN
SCALE 1" = 30'



A SECTION
SCALE 1" = 15'



B SECTION
SCALE 1" = 15'



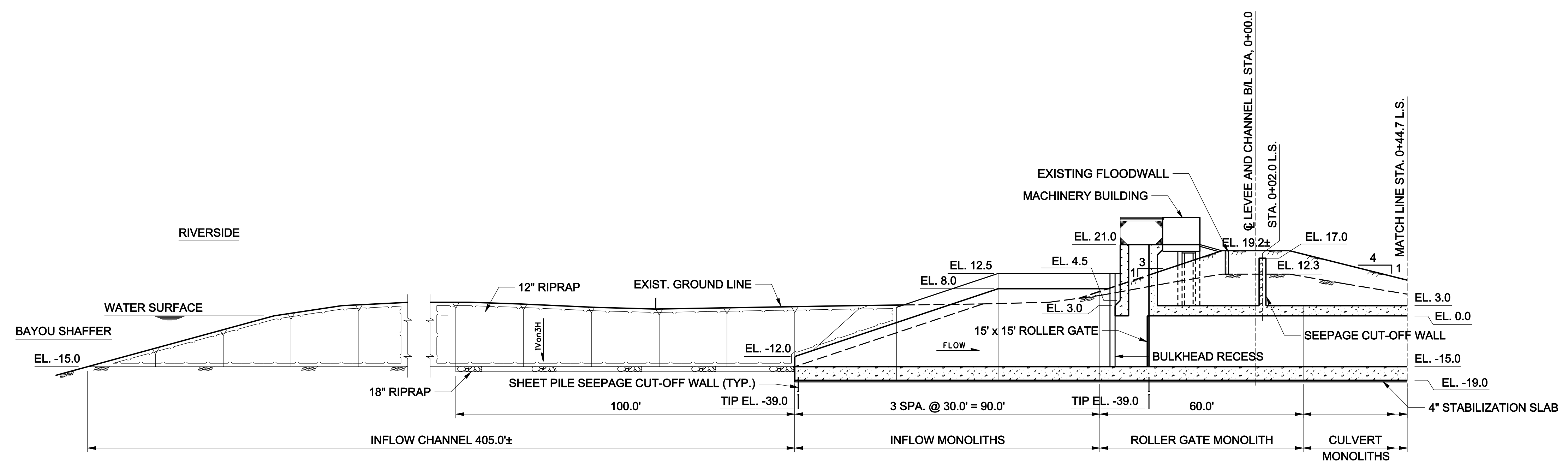
FEASIBILITY	DATE	APPR.	MARK	DATE	APPR.	MARK
	SUBMITTED BY:	DESIGNED BY:	CONTRACT NO.:	DESCRIPTION	DESCRIPTION	DESCRIPTION
	STEPHEN G. PARKAS, P.E.	MELISSA SCHMIDT, P.E.				
	10/29/2009	10/29/2009				

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	DESIGNED BY: MELISSA SCHMIDT, P.E.	DATE: 10/29/2009
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI 63105-2833	SUBMITTED BY: STEPHEN G. PARKAS, P.E.	SOLICITATION NO.:
	10/29/2009	CONTRACT NO.:
		FILE NUMBER:
		FILE NAME:
		ANSI D

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE ECS

STRUCTURAL
HIGHWAY BRIDGE WITH GATES
SITE PLAN AND SECTIONS

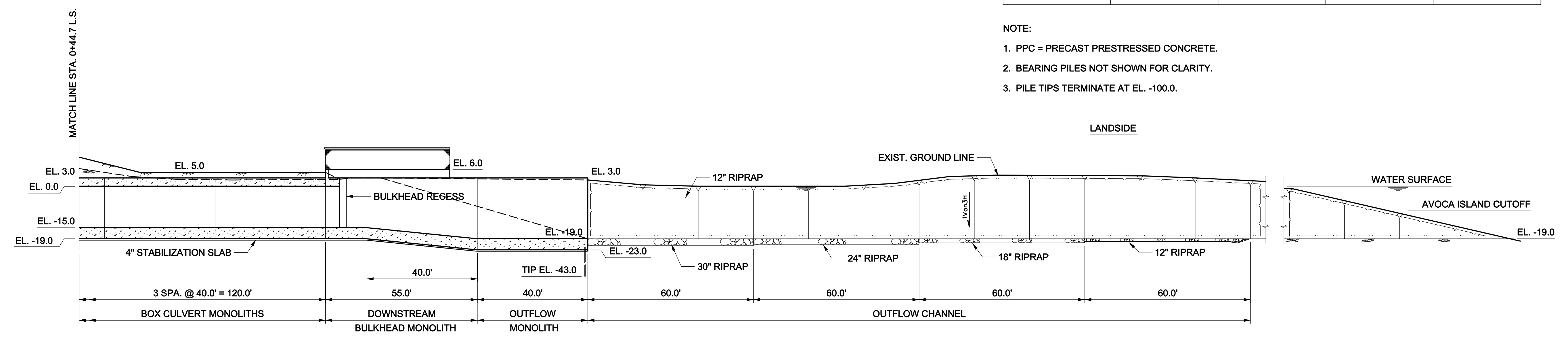
SHEET IDENTIFICATION
S-140



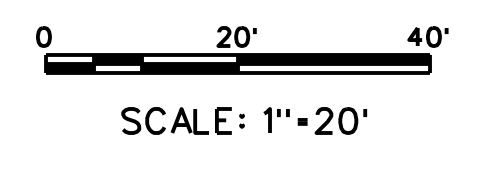
LONGITUDINAL SECTION
SCALE 1" = 20'

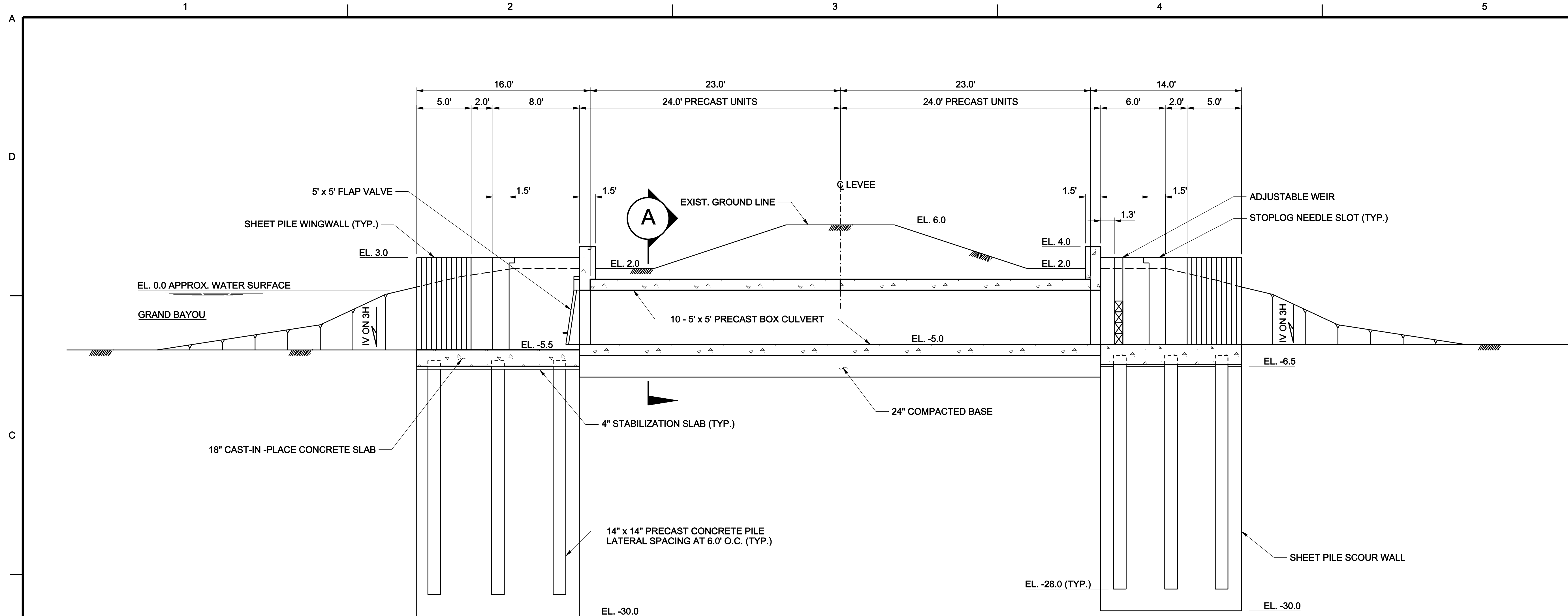
BEARING PILE SCHEDULE				
MONOLITH DESIGNATION	PILE TYPE	ORIENTATION	LATERAL SPACING	LONGITUDINAL SPACING
INFLOW MONOLITHS	12" x 12" PPC	VERTICAL	10.00' O.C.	8.00' O.C.
ROLLER GATE MONOLITH	HP14x73	VERTICAL AND BATTERED	5.50' O.C.	5.50' O.C.
CULVERT MONOLITH (ADJACENT TO ROLLER GATE MONOLITH)	14" x 14" PPC	VERTICAL	6.00' O.C.	5.75' O.C.
CULVERT MONOLITHS (ALL OTHERS)	12" x 12" PPC	VERTICAL	7.00' O.C.	7.00' O.C.
BULKHEAD MONOLITH	12" x 12" PPC	VERTICAL	7.00' O.C.	8.50' O.C.
OUTFLOW MONOLITH	12" x 12" PPC	VERTICAL	7.00' O.C.	8.50' O.C.

- NOTE:
- PPC = PRECAST PRESTRESSED CONCRETE.
 - BEARING PILES NOT SHOWN FOR CLARITY.
 - PILE TIPS TERMINATE AT EL. -100.0.



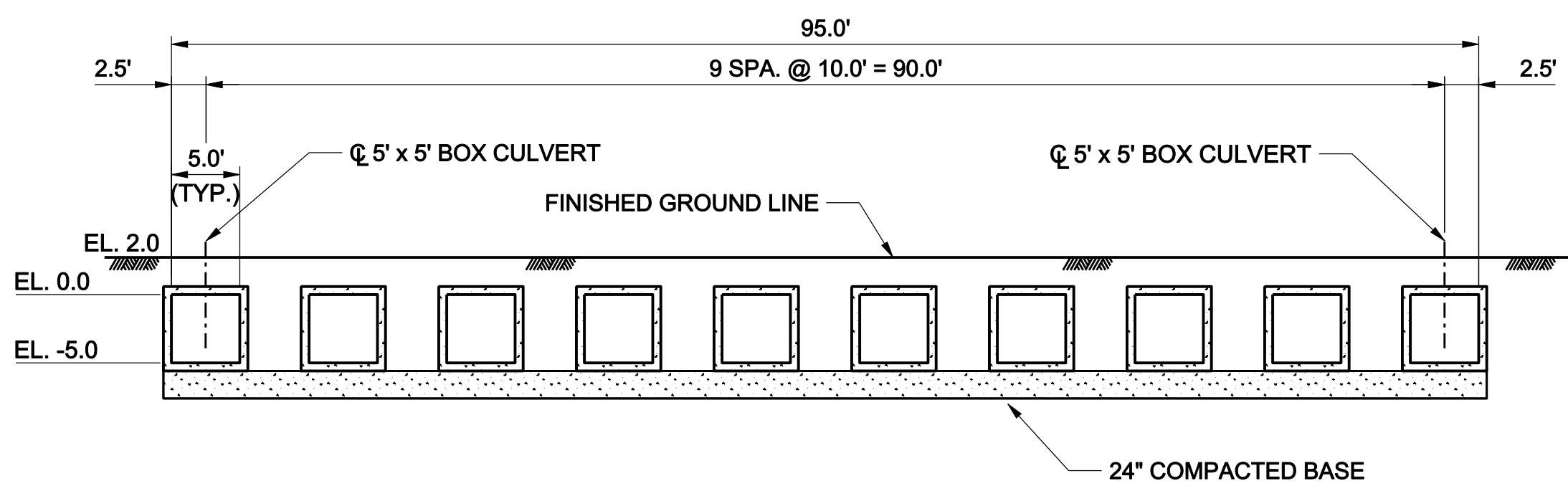
LONGITUDINAL SECTION
SCALE 1" = 20'





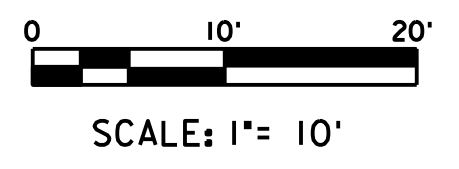
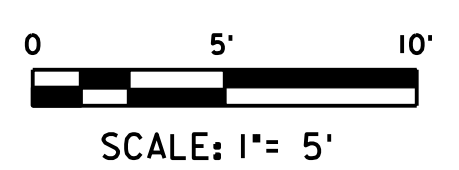
LONGITUDINAL SECTION

SCALE 1" = 5'



A SECTION

SCALE 1" = 10'

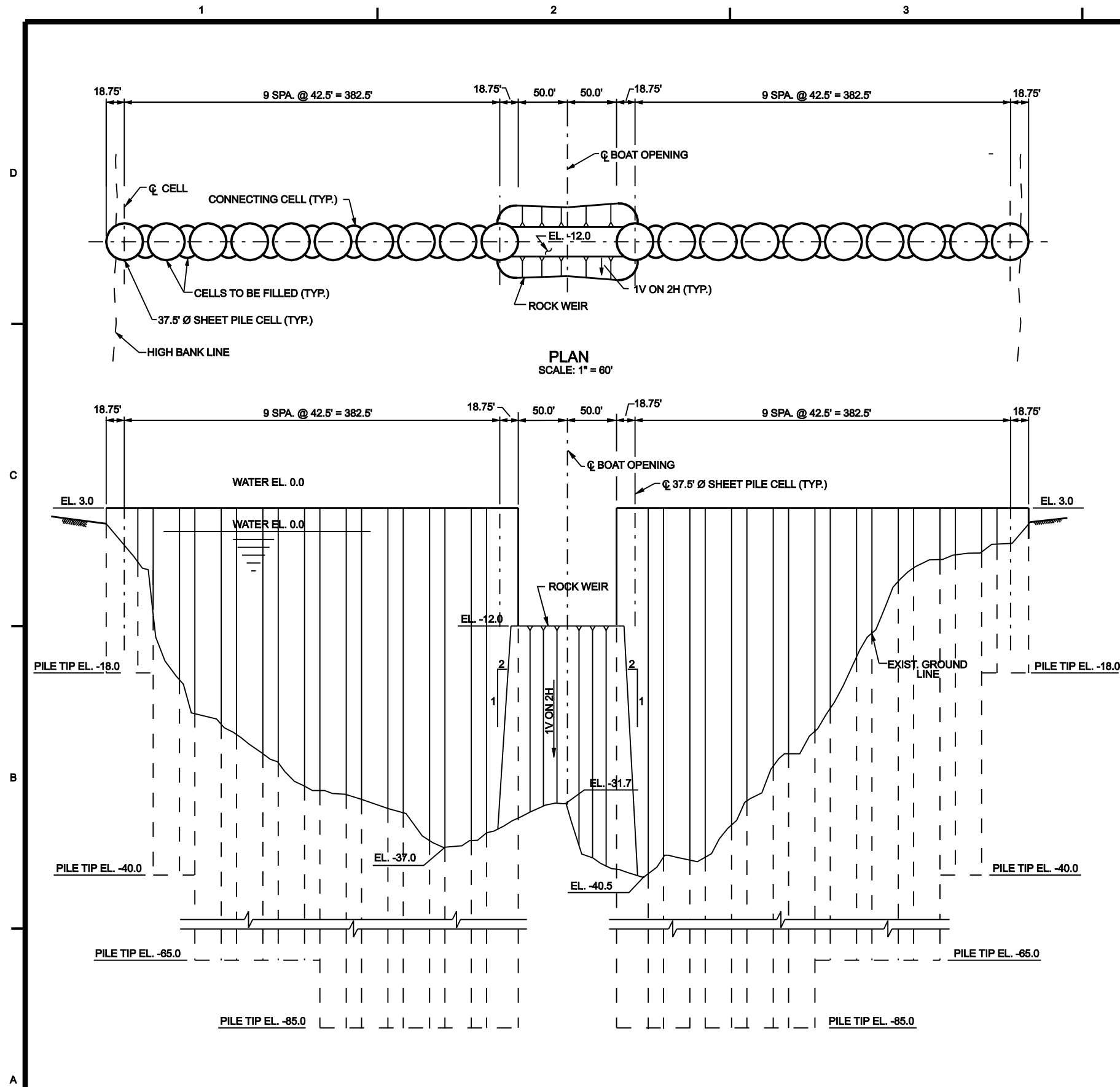


FEASIBILITY	DATE	APPR.
	DESIGNED BY	DESCRIPTION
	DATE	APPR.
	DESCRIPTION	MARK

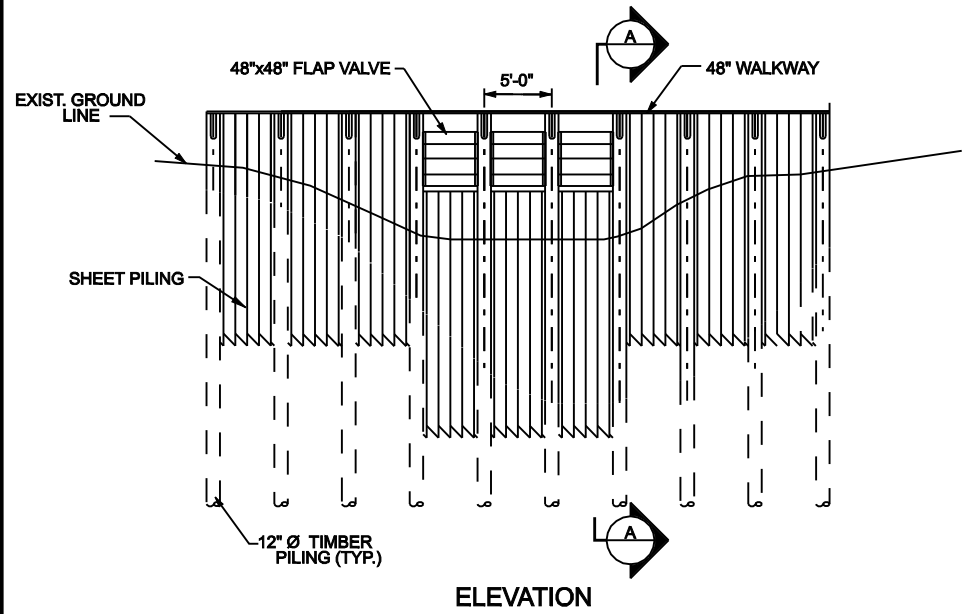
DESIGNED BY	DATE	SOLICITATION NO.
NEW ORLEANS DISTRICT	10/29/2009	
DESIGNED BY	DATE	CONTRACT NO.
STEPHEN G. PARKAS, P.E.	10/29/2009	
DESIGNED BY	DATE	FILE NUMBER
STEPHEN G. PARKAS, P.E.	10/29/2009	
DESIGNED BY	DATE	FILE NAME
STEPHEN G. PARKAS, P.E.	10/29/2009	N:\New Orleans\Atchafalaya\Charenton\Struct\2003.dwg

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE EC3
STRUCTURAL
10 - 5' x 5' GATED BOX CULVERTS
LONGITUDINAL SECTION

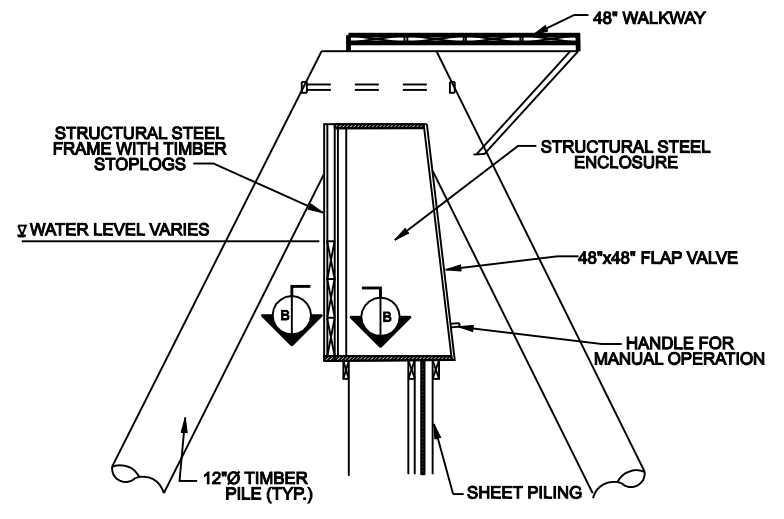
SHEET IDENTIFICATION
S-210



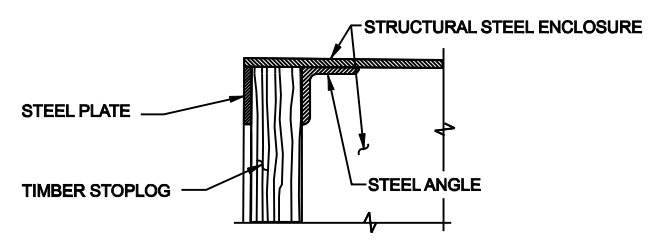
ELEVATION
NOT TO SCALE
PROJECT FEATURE WW2



ELEVATION



SECTION A-A



SECTION B-B

PROJECT FEATURE CC14

FEASIBILITY	DATE	APPR. MARK	DATE	APPR.
	DESCRIPTION	MARK	DESCRIPTION	MARK

DESIGNED BY: JAMES G. PARKAS, P.E.	DATE: 10/29/2009	SUBMITTED BY: STEPHEN G. PARKAS, P.E.	DATE: 10/29/2009
CHECKED BY: JAMES G. PARKAS, P.E.	FILE NAME: N:\New Orleans\Water\WaterControl\SheetCC14.dgn	APPROVED BY: STEPHEN G. PARKAS, P.E.	FILE NUMBER: 10292009
PROJECT NO.: 63105-2833	CONTRACT NO.:	DESIGN NO.:	FILE NUMBER: 10292009

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURES WW2 AND CC14
STRUCTURAL
WATER CONTROL STRUCTURES
PLAN AND ELEVATIONS

1

2

3

4

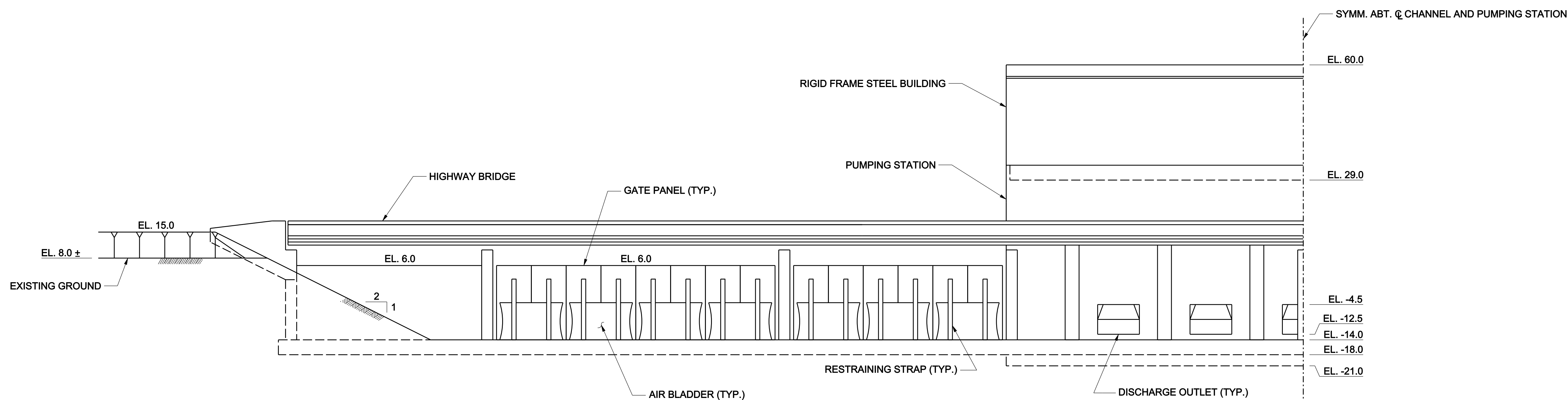
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D

C

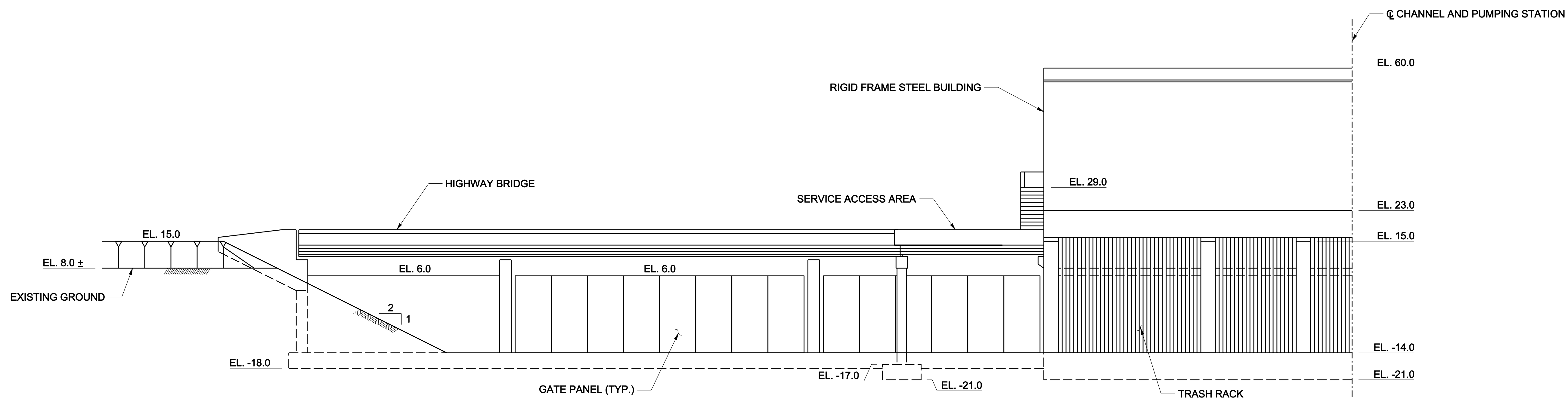
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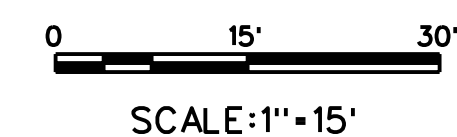
SOUTH ELEVATION

SCALE 1" = 15'



NORTH ELEVATION

SCALE 1" = 15'



FEASIBILITY	DATE	APPR.
	10/29/2009	
	DESCRIPTION	DATE

DESIGNED BY: MELISSA SCHMIDT, P.E.	CHECKED BY: MAS	SUBMITTED BY: STEPHEN G. PARKAS, P.E.	DATE: 10/29/2009
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI 63105-2833	FILE NAME: N:\New Orleans\Atchafalaya\Chamberlain\Struct\220.dwg	ANSI D

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE E22

STRUCTURAL
STATION AND BRIDGE
ELEVATIONS

4000 CFS PUMP STATION AND BRIDGE
ELEVATIONS

SHEET IDENTIFICATION
S-230

1

2

3

4

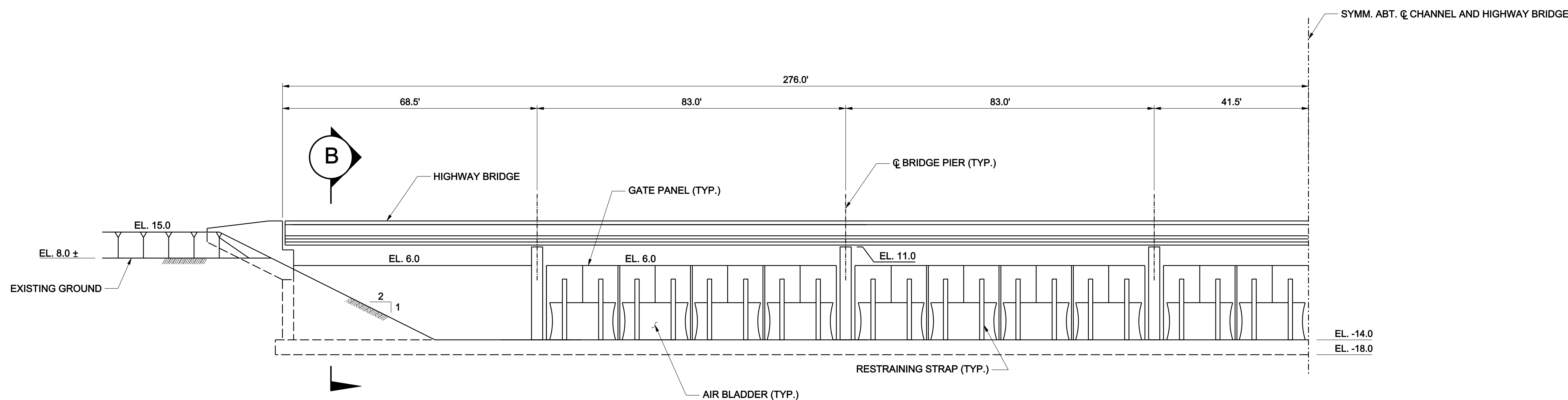
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C

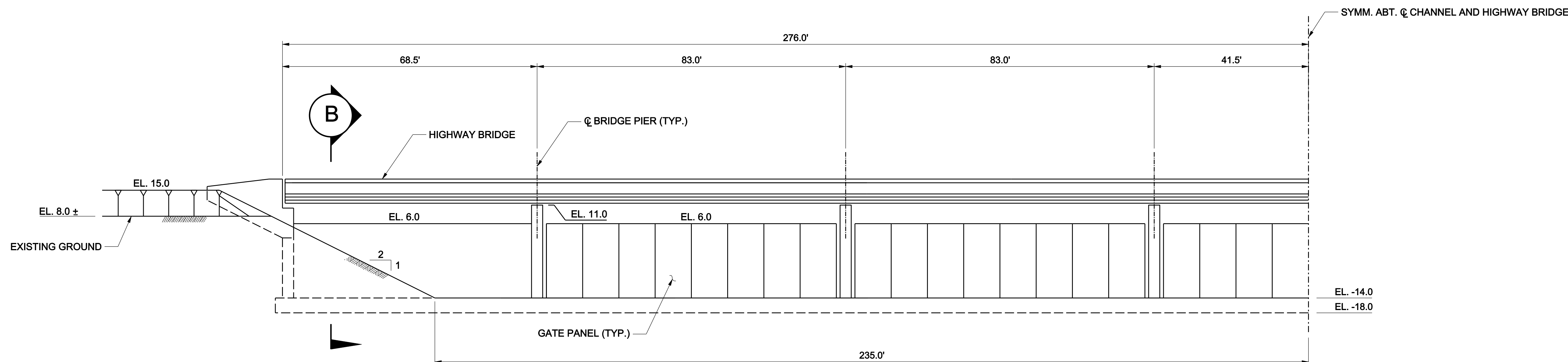
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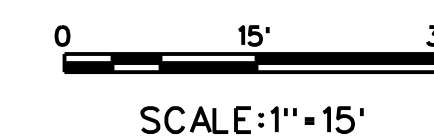
SOUTH ELEVATION

SCALE 1" = 15'



NORTH ELEVATION

SCALE 1" = 15'



FEASIBILITY	DATE	APPR.	DATE	APPR.
	DESIGNED BY	DESIGNATION NO.	DESCRIPTION	MARK
	CHECKED BY	CONTRACT NO.		
	DATE	FILE NUMBER		

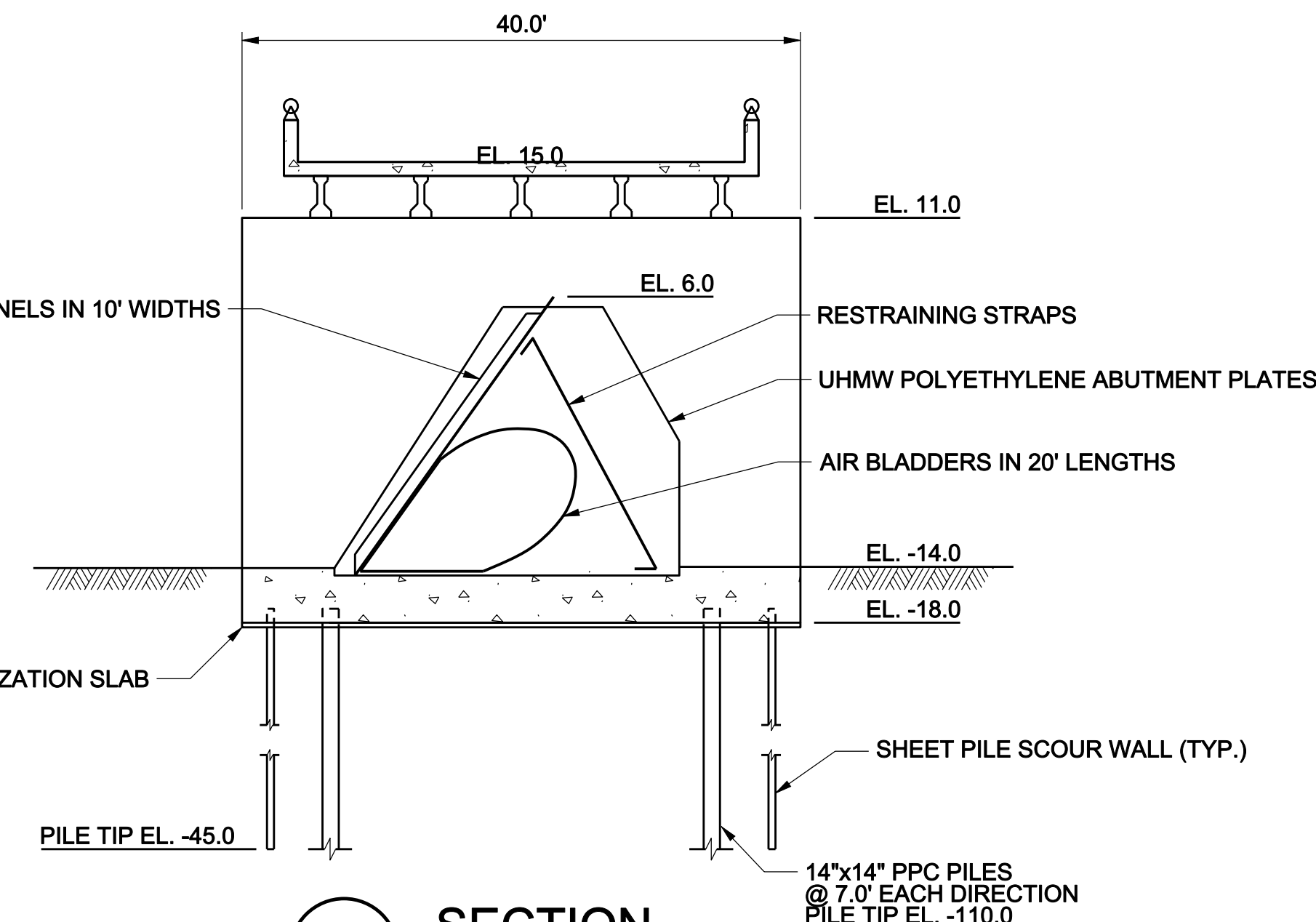
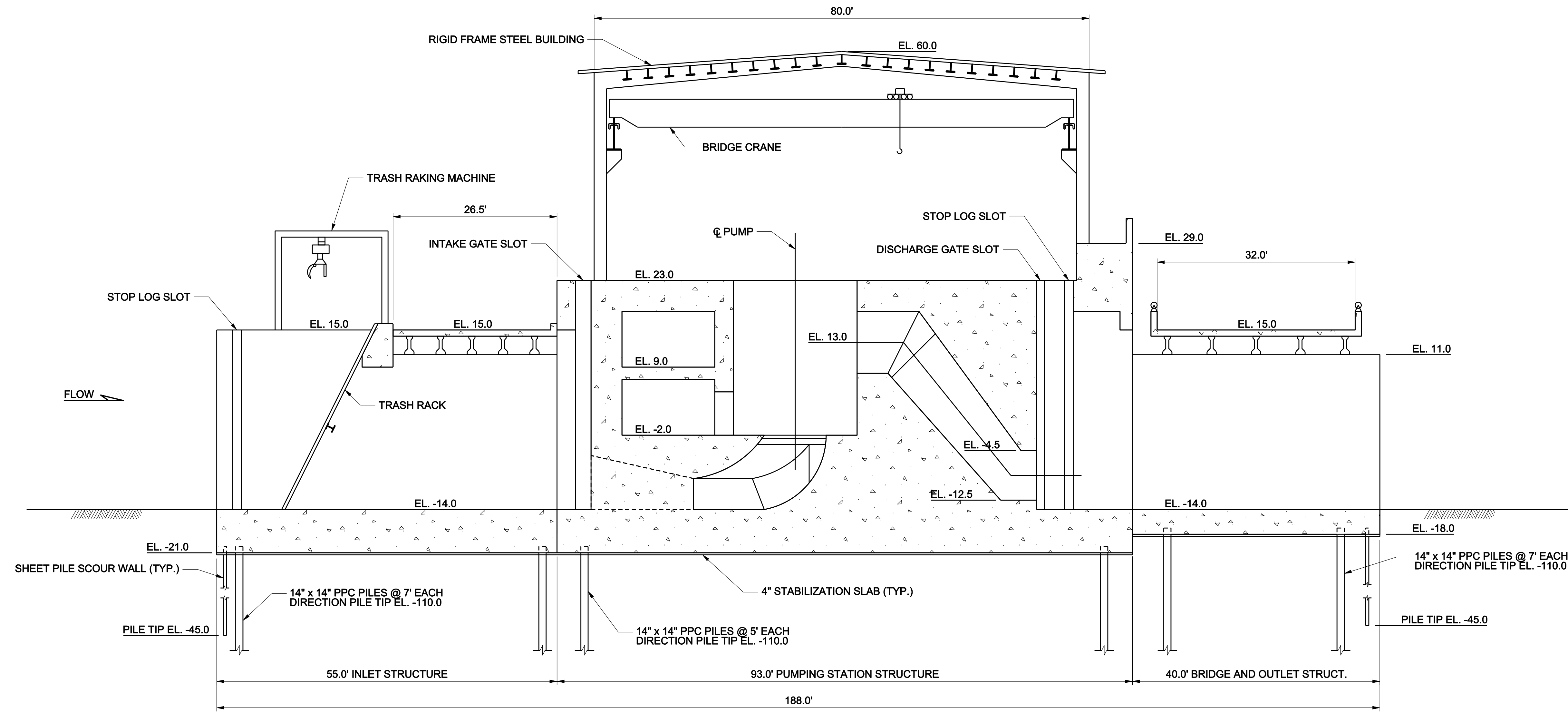
DESIGNED BY	DESIGNED BY	DATE
NEW ORLEANS DISTRICT	NEW ORLEANS DISTRICT	10/29/2009
NEW ORLEANS, LOUISIANA	NEW ORLEANS, LOUISIANA	
U.S. ARMY CORPS OF ENGINEERS	U.S. ARMY CORPS OF ENGINEERS	
ST. LOUIS DISTRICT	ST. LOUIS DISTRICT	
ST. LOUIS, MISSOURI 63105-2833	ST. LOUIS, MISSOURI 63105-2833	

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE EGS

STRUCTURAL
HIGHWAY BRIDGE WITH GATES
ELEVATIONS

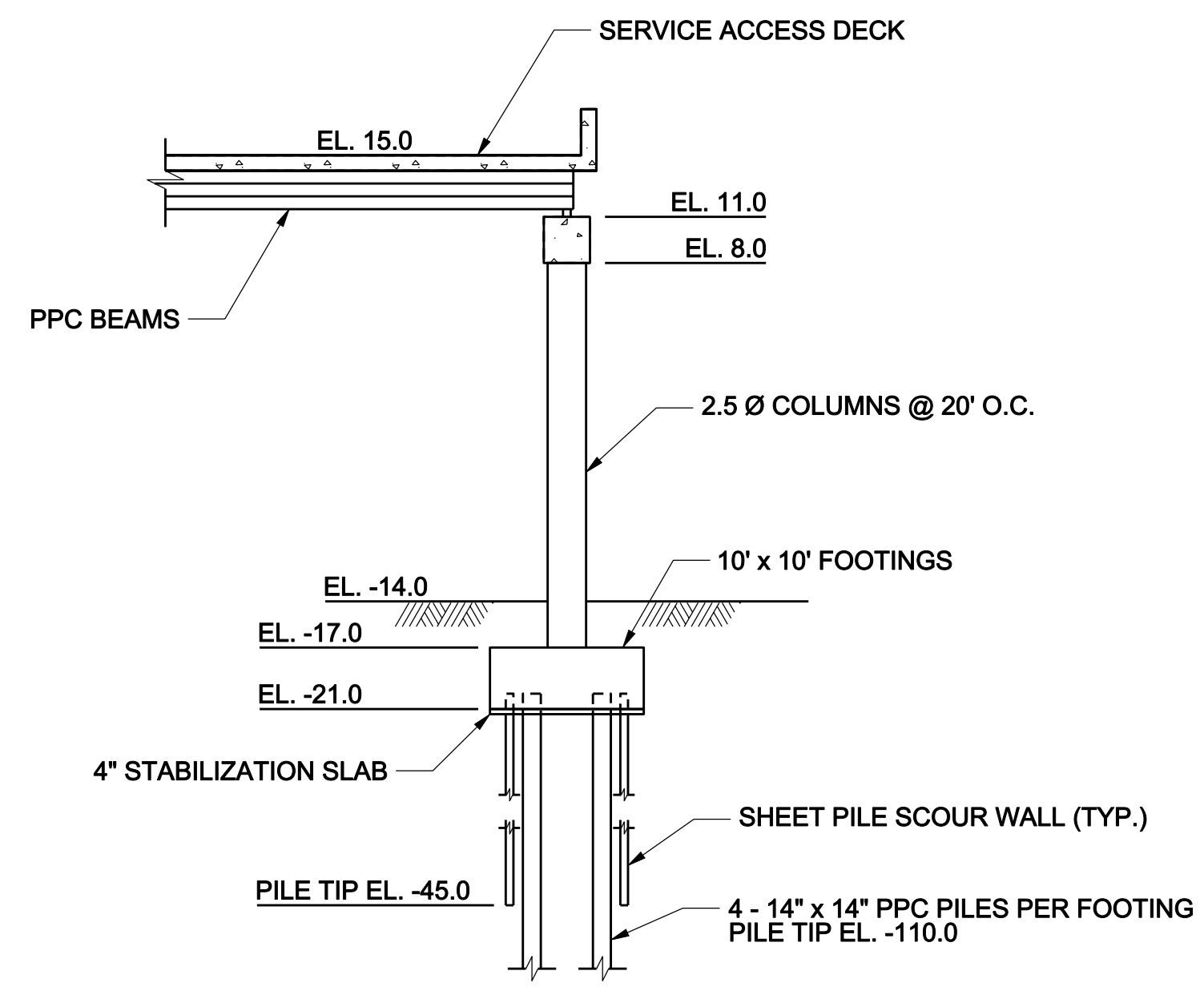
SHEET IDENTIFICATION
S-240

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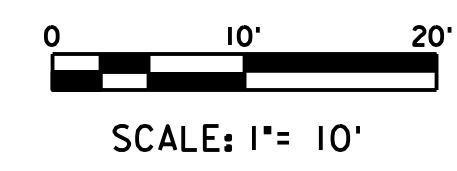


B SECTION
SCALE 1" = 10'

A SECTION
SCALE 1" = 10'



C SECTION
SCALE 1" = 10'



FEASIBILITY	DATE	APPR.	DATE	APPR.
	DESIGNED BY	DESIGNATION NO.	DESCRIPTION	MARK
	CHECKED BY	CONTRACT NO.	DESCRIPTION	MARK
	DATE	FILE NUMBER	DESCRIPTION	MARK

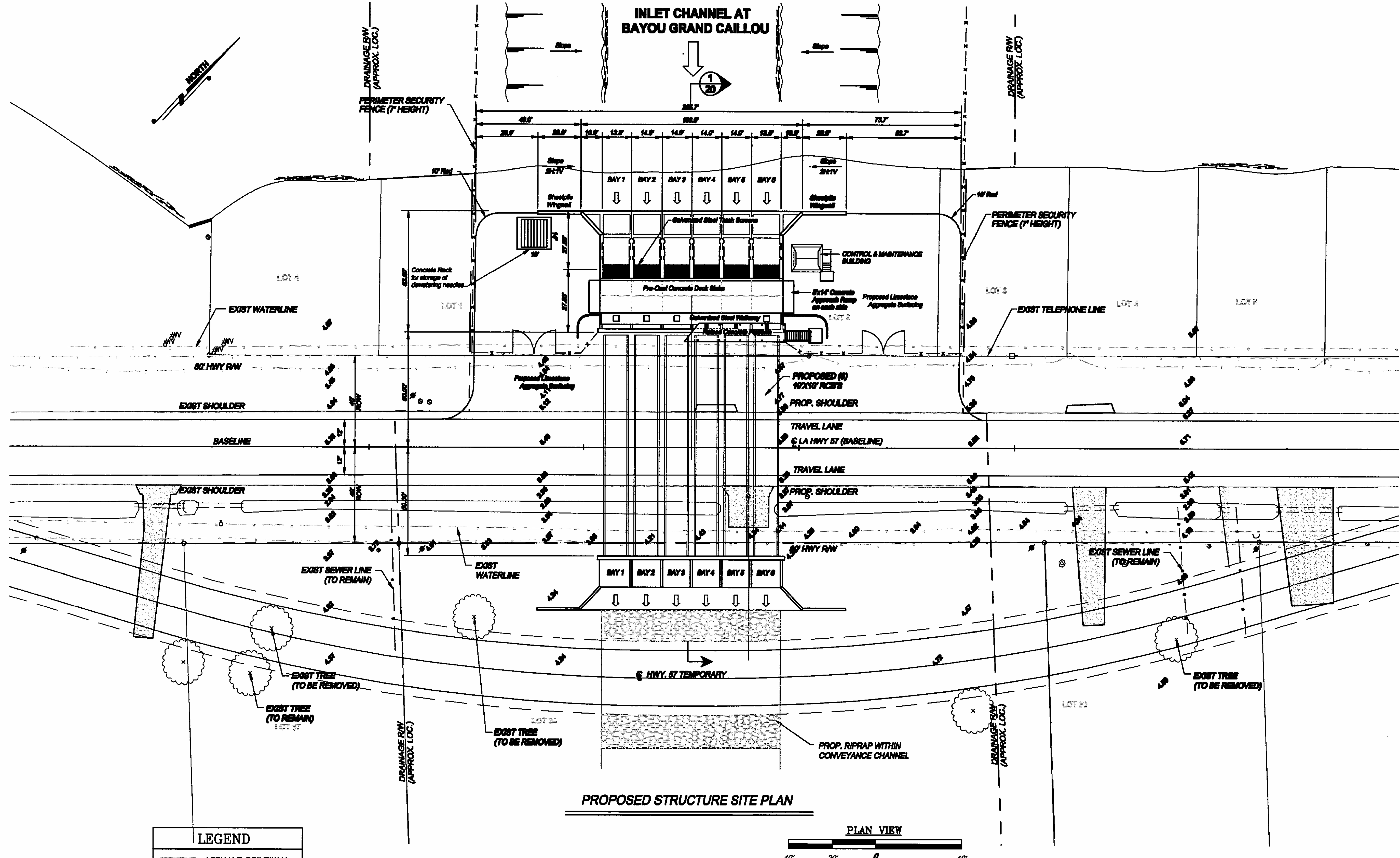
DESIGNED BY MELISSA SCHMIDT, P.E.	CHECKED BY MELISSA SCHMIDT, P.E.	DATE 10/29/2009
DESIGNED BY MELISSA SCHMIDT, P.E.	DATE 10/29/2009	FILE NAME N:\New Orleans\Atchafalaya\Charleston\Struct\330.dwg
DESIGNED BY MELISSA SCHMIDT, P.E.	DATE 10/29/2009	FILE NAME N:\New Orleans\Atchafalaya\Charleston\Struct\330.dwg

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE ES2
STRUCTURAL
STATION AND BRIDGE
SECTIONS
4000 CFS PUMP, STATION AND BRIDGE

SHEET IDENTIFICATION
S-330

D
C
B
A

INLET CHANNEL AT BAYOU GRAND CAILLOU



PROPOSED STRUCTURE SITE PLAN

PLAN VIEW



LEGEND	
	ASPHALT DRIVEWAY
	AGGREGATE DRIVEWAY
	EXIST WATER LINE
	EXIST TELEPHONE LINE
	TELEPHONE BOX

REV.	DATE	DESCRIPTION	BY
05/20/09		OOPR COMMENTS	KPR



**OFFICE OF COASTAL PROTECTION & RESTORATION
ENGINEERING BRANCH**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

**NORTH LAKE BOUDREAUX
FRESHWATER INTRODUCTION
AND HYDROLOGIC MANAGEMENT**
STATE PROJECT NUMBER: TB-32a
FEDERAL PROJECT NUMBER: TB-32a

PRIMARY WATER CONTROL STRUCTURE

DRAWN BY: JB

DESIGNED BY: T. Baker Smith

APPROVED BY: LJD

DATE: 4/1/09

SHEET 19 OF 38

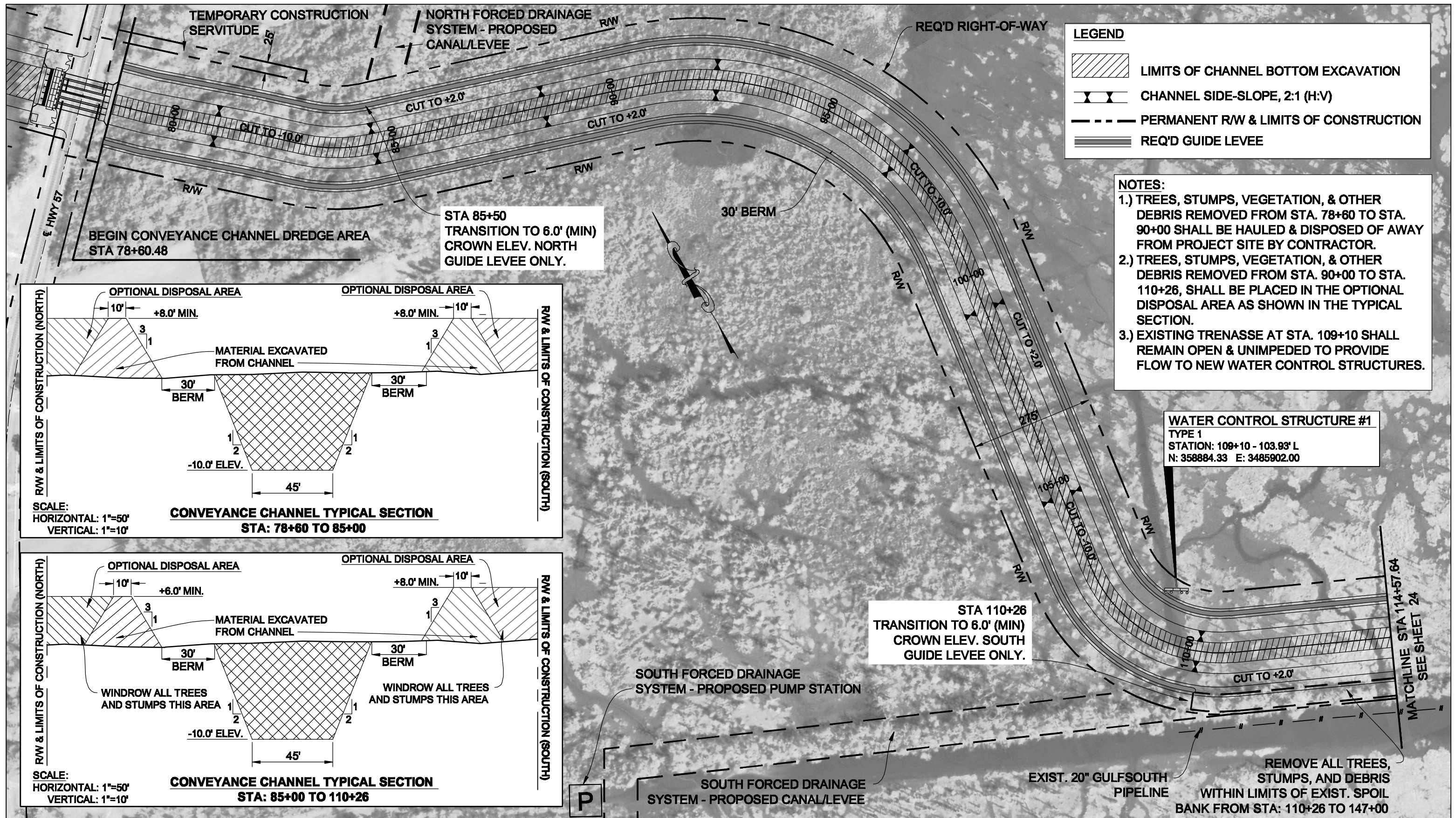


DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: P.E. MELISSA SCHMIDT	DATE: 04/01/09	SUBMITTED BY: MAS	SOLICITATION NO.:
DRAWN BY: MAS	FILE NUMBER:	CONTRACT NO.:	
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI 63105-2833	PLOT SCALE: 1:1	FILE NAME: \\New Orleans\at\hallyea\Charmion\Stud\1911.dwg

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE C03, C04, C03, AND C01
REFERENCE
WATER CONTROL STRUCTURE
SITE PLAN

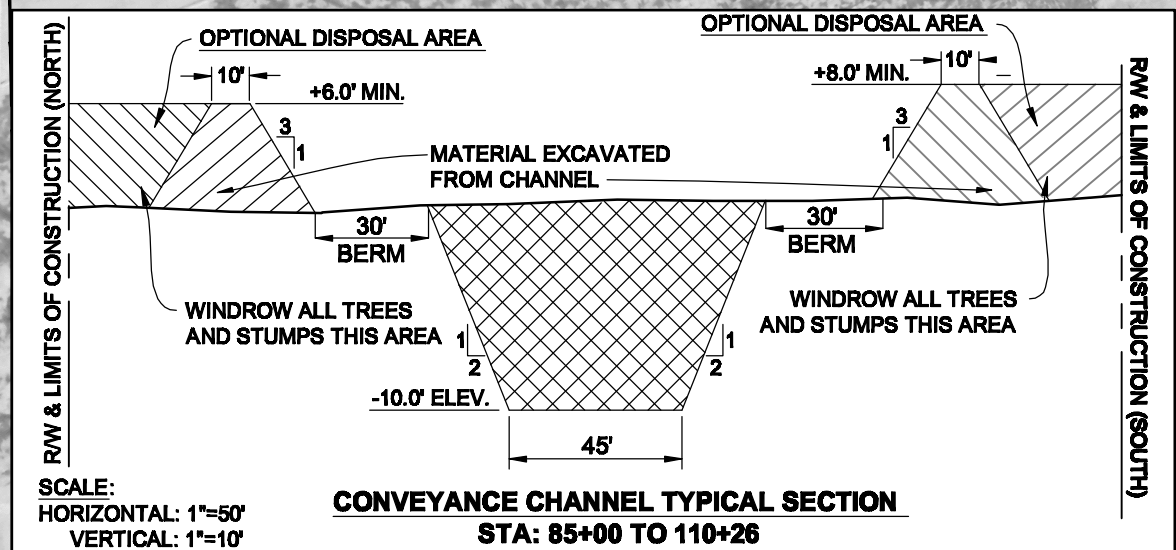
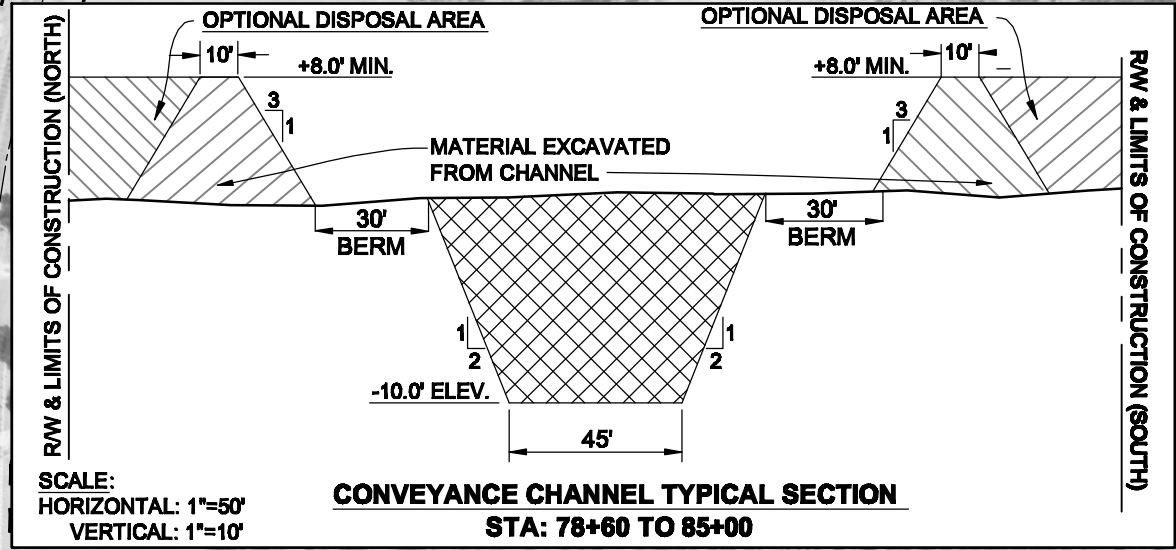
SHEET IDENTIFICATION
R-101



LEGEND

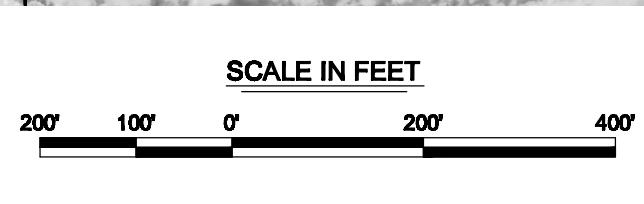
- LIMITS OF CHANNEL BOTTOM EXCAVATION
- CHANNEL SIDE-SLOPE, 2:1 (H:V)
- PERMANENT RW & LIMITS OF CONSTRUCTION
- REQ'D GUIDE LEVEE

- NOTES:**
- 1.) TREES, STUMPS, VEGETATION, & OTHER DEBRIS REMOVED FROM STA. 78+60 TO STA. 90+00 SHALL BE HAULED & DISPOSED OF AWAY FROM PROJECT SITE BY CONTRACTOR.
 - 2.) TREES, STUMPS, VEGETATION, & OTHER DEBRIS REMOVED FROM STA. 90+00 TO STA. 110+26, SHALL BE PLACED IN THE OPTIONAL DISPOSAL AREA AS SHOWN IN THE TYPICAL SECTION.
 - 3.) EXISTING TRENASSE AT STA. 109+10 SHALL REMAIN OPEN & UNIMPEDED TO PROVIDE FLOW TO NEW WATER CONTROL STRUCTURES.



WATER CONTROL STRUCTURE #1
TYPE 1
STATION: 109+10 - 103.93' L
N: 358884.33 E: 3485902.00

STA 110+26
TRANSITION TO 6.0' (MIN)
CROWN ELEV. SOUTH
GUIDE LEVEE ONLY.



REV.	DATE	DESCRIPTION	BY
08/20/00		OCPR COMMENTS	KPR

TBS T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(504) 885-1000 www.tbsmith.com

**OFFICE OF COASTAL PROTECTION & RESTORATION
ENGINEERING BRANCH**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: ALH DESIGNED BY: BJK

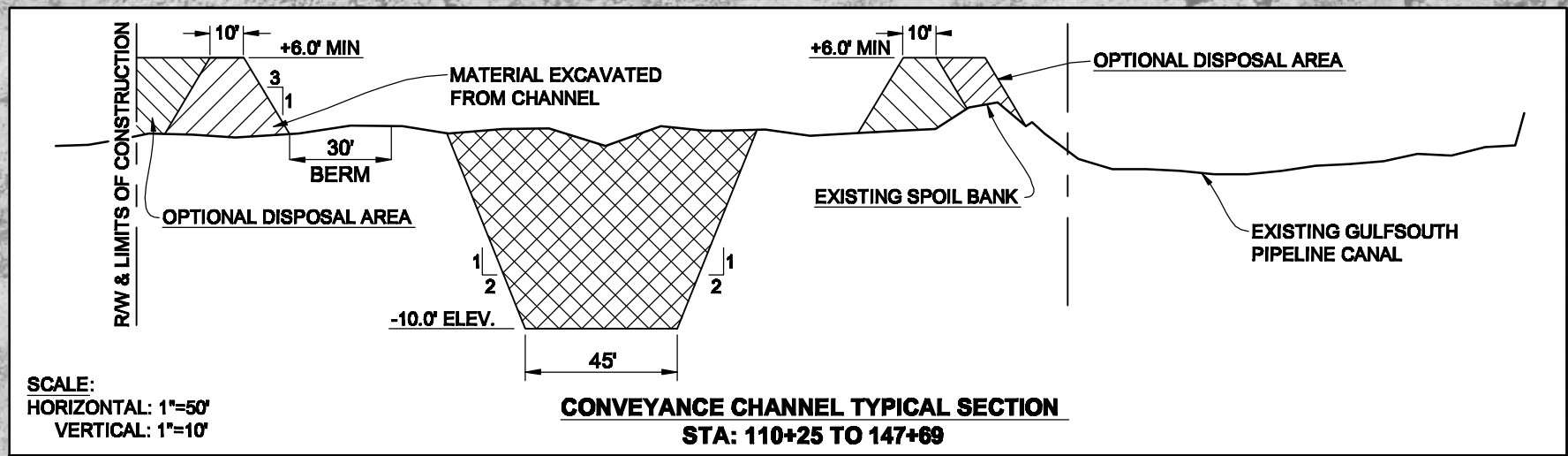
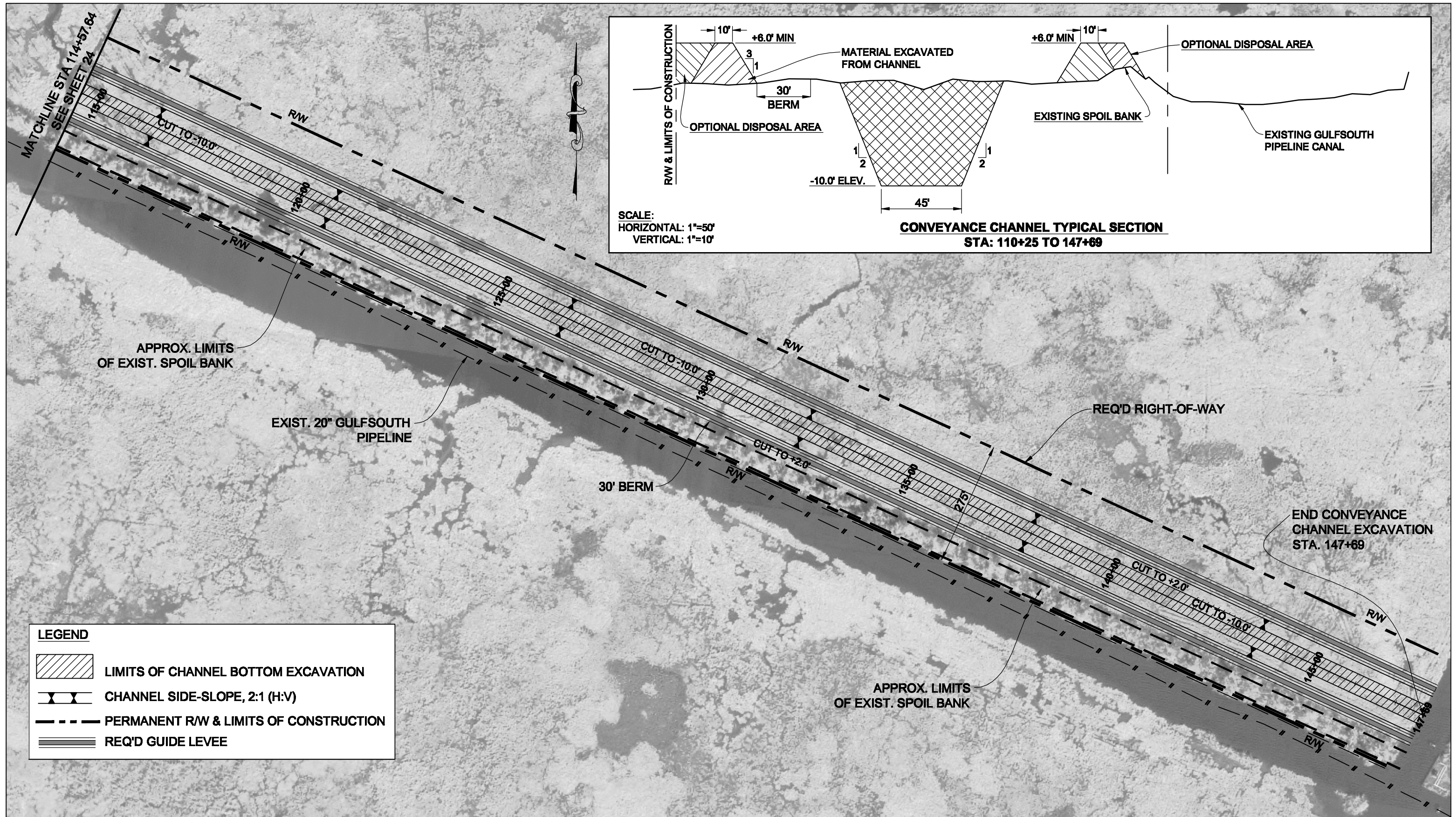
**NORTH LAKE BOUDREAUX
FRESHWATER INTRODUCTION
AND HYDROLOGIC MANAGEMENT**

STATE PROJECT NUMBER: TE-32a
FEDERAL PROJECT NUMBER: TE-32a

APPROVED BY: BJK

**CONVEYANCE CHANNEL
DREDGE AREA**

**R-102
Feature CD6**



LEGEND

- LIMITS OF CHANNEL BOTTOM EXCAVATION
- CHANNEL SIDE-SLOPE, 2:1 (H:V)
- PERMANENT R/W & LIMITS OF CONSTRUCTION
- REQ'D GUIDE LEVEE



REV.	DATE	DESCRIPTION	BY
08/20/00		OCPR COMMENTS	KPR



**OFFICE OF COASTAL PROTECTION & RESTORATION
ENGINEERING BRANCH**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: ALH DESIGNED BY: BJK

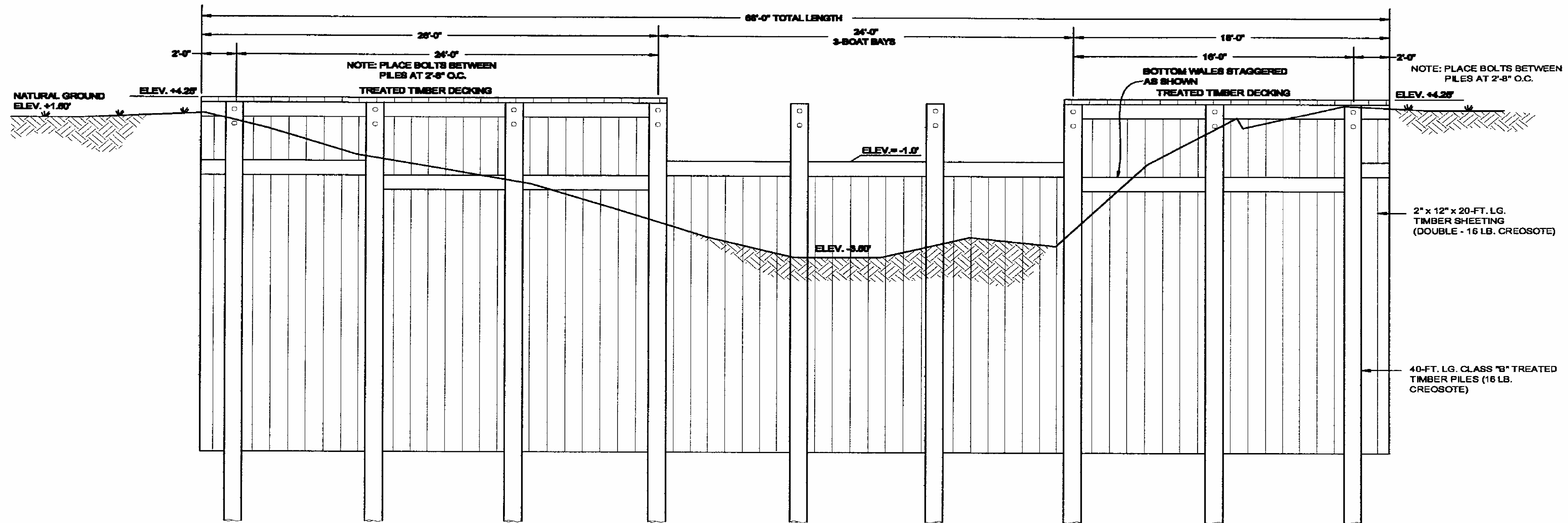
**NORTH LAKE BOUDREAU
FRESHWATER INTRODUCTION
AND HYDROLOGIC MANAGEMENT**

STATE PROJECT NUMBER: TE-32a
FEDERAL PROJECT NUMBER: TE-32a

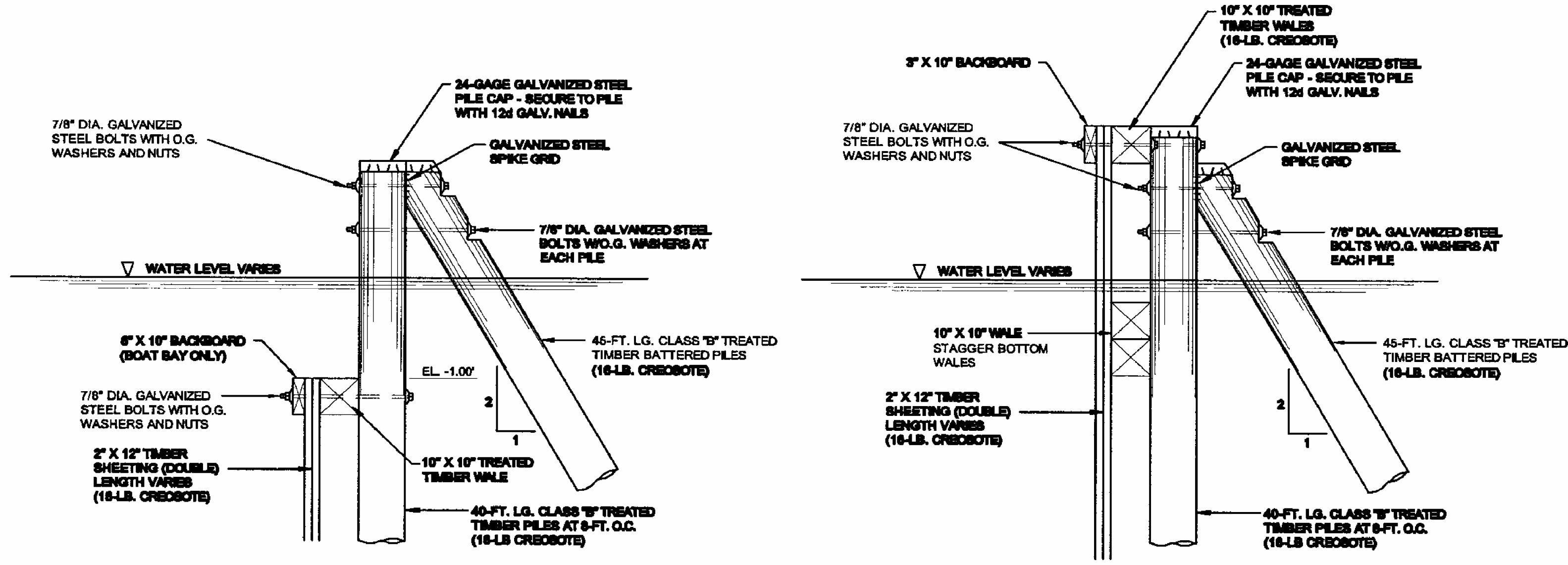
APPROVED BY: BJK

**CONVEYANCE CHANNEL
DREDGE AREA**

**R-103
Feature CD6**



TYPE 2 WATER CONTROL STRUCTURE ELEVATION
N.T.S.



TYPICAL SECTION THRU BOAT BAY AT WATER CONTROL STRUCTURE TYPE 2
N.T.S.

TYPICAL SECTION THRU TIMBER WHARF-TYPE 2
N.T.S.

NOT TO SCALE

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION
ENGINEERING BRANCH
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

NORTH LAKE BOUDREAU
FRESHWATER INTRODUCTION
AND HYDROLOGIC MANAGEMENT
STATE PROJECT NUMBER: TB-32a
FEDERAL PROJECT NUMBER: TB-32a
APPROVED BY: BJK

TYPE 1 & TYPE 2
WATER CONTROL
STRUCTURE DETAILS
DATE: 4/1/09
SHEET 29 OF 38

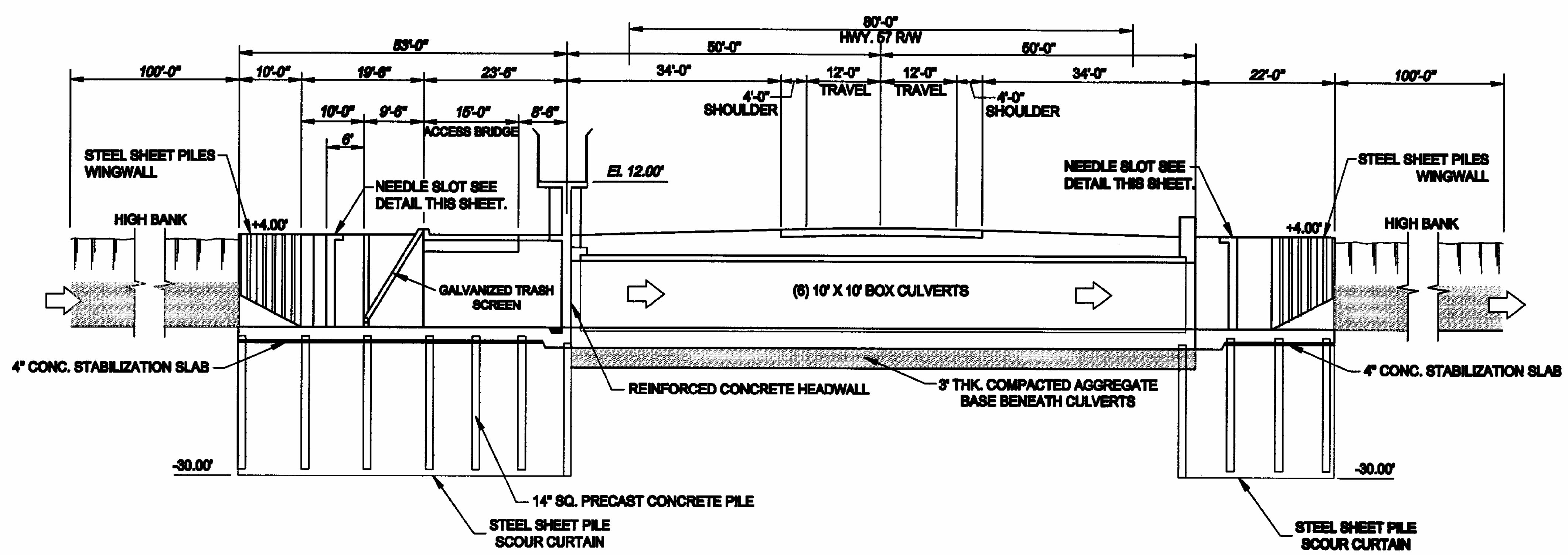


FEASIBILITY	DATE	APPR.
	DESIGNER	DATE
	DESCRIPTION	MARK
	DESCRIPTION	MARK

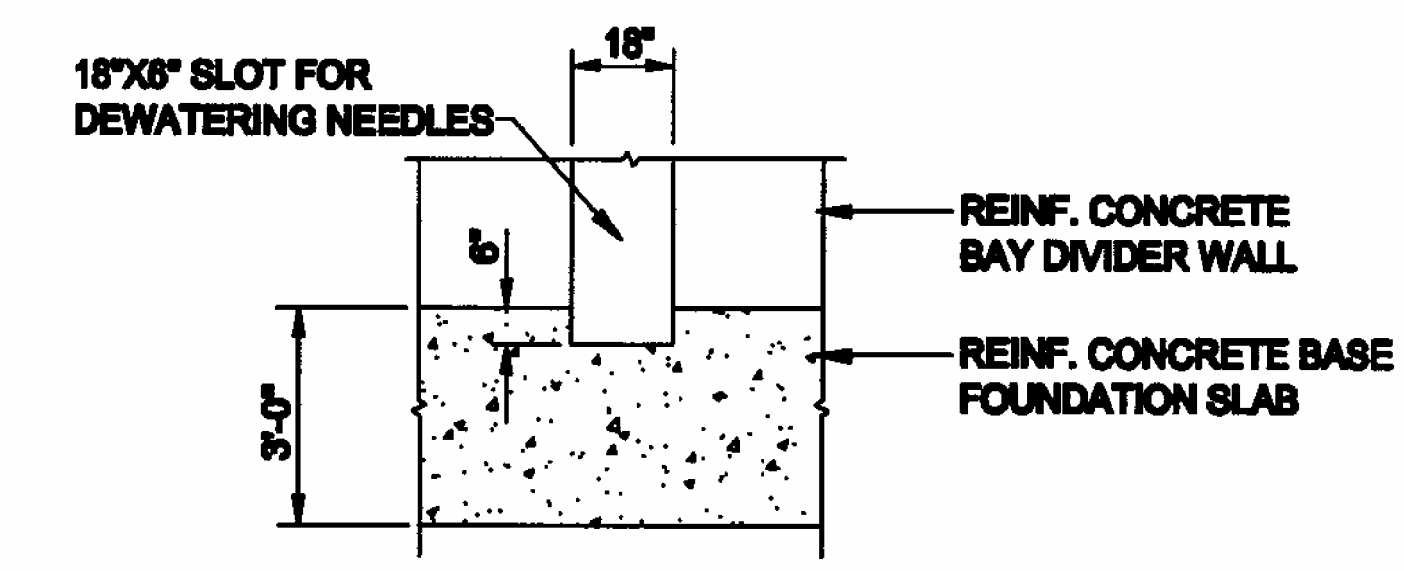
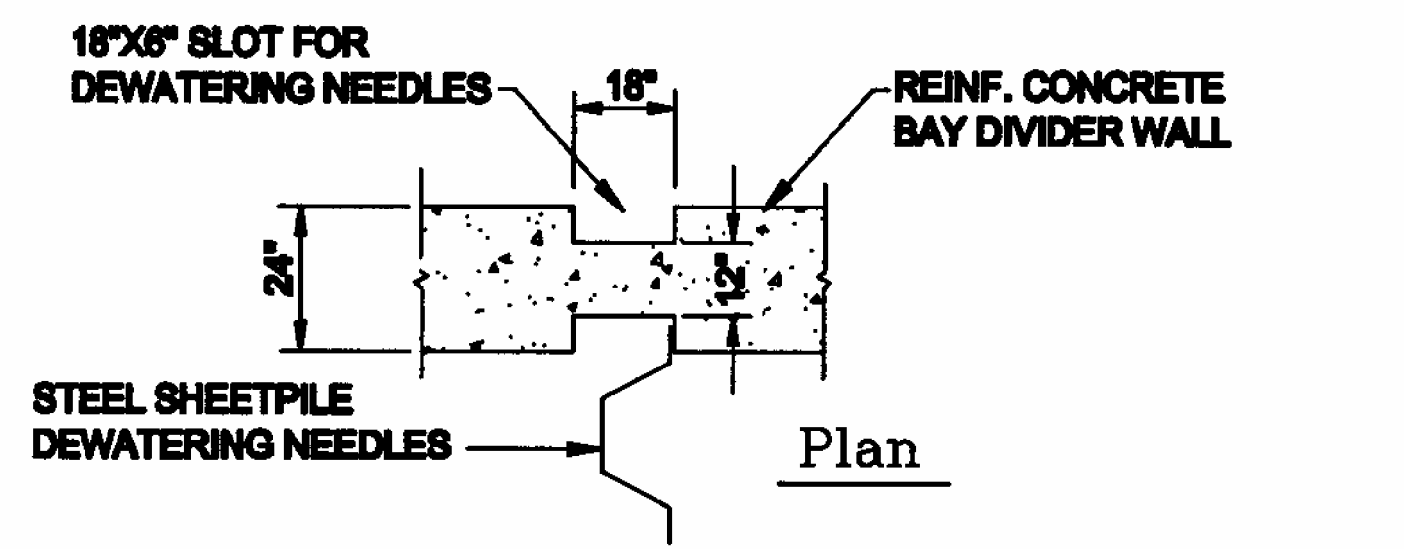
DESIGNED BY: MEL J. SCHMIDT, P.E.	DATE: 04/20/09	SOLICITATION NO.:
DRAWN BY: BJK	CONTRACT NO.:	
ISSUED BY: MJS	FILE NUMBER:	
REVISIONS BY: BJK	FILE NAME:	
APPROVED BY: STEPHEN G. PARKAS, P.E.	DATE: 10/29/2009	ANSI D
PROJECT: U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	ST. LOUIS DISTRICT	
PROJECT: U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA	ST. LOUIS, MISSOURI 63105-2833	

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE CCT5
REFERENCE
TYPE 2 WATER CONTROL STRUCTURE
DETAILS

SHEET IDENTIFICATION
R-210



TYPICAL LONG. SECTION THRU STRUCTURE
 SCALE: 1" = 20'



Needle Slot Detail
 SCALE: 1" = 5'

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION
 ENGINEERING BRANCH**
 430 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: JB DESIGNED BY: T. Baker Smith

**NORTH LAKE BOUDREAU
 FRESHWATER INTRODUCTION
 AND HYDROLOGIC MANAGEMENT**

STATE PROJECT NUMBER: TB-32a
 FEDERAL PROJECT NUMBER: TB-32a
 APPROVED BY: LJD

**PRIMARY WATER
 CONTROL STRUCTURE**

DATE: 4/1/09
 SHEET 20 OF 38



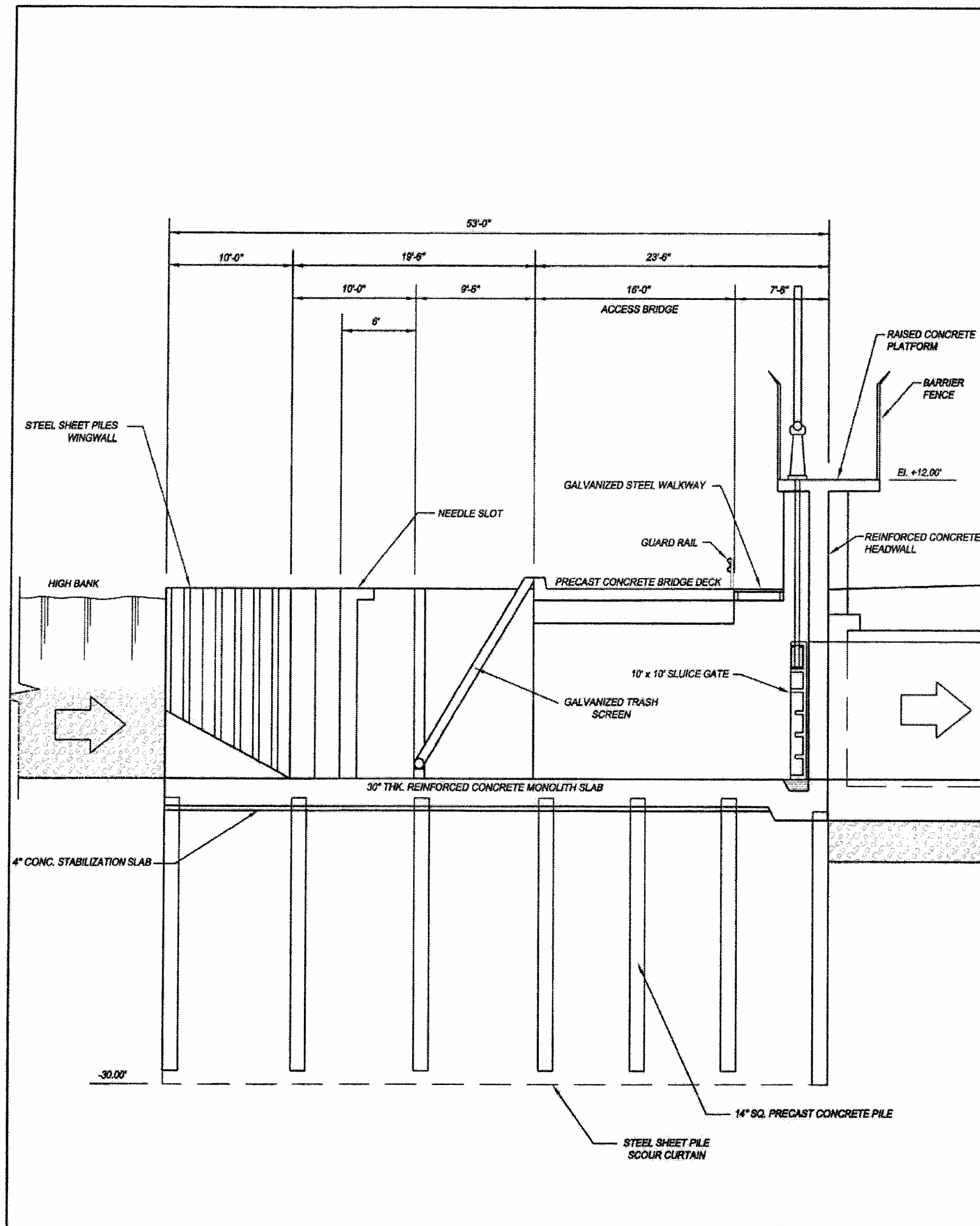
FEASIBILITY	DATE		APPR. MARK	
	DESCRIPTION		DATE	

DESIGNED BY: MELISSA SCHMIDT, P.E.	CHECKED BY: M.S.	DATE: 10/29/2009
DESIGNED BY: STEPHEN G. PARKAS, P.E.	CHECKED BY: M.S.	DATE: 10/29/2009
DESIGNED BY: STEPHEN G. PARKAS, P.E.	CHECKED BY: M.S.	DATE: 10/29/2009
DESIGNED BY: STEPHEN G. PARKAS, P.E.	CHECKED BY: M.S.	DATE: 10/29/2009

ATCHAFALAYA RIVER
 NORTHERN TERREBONNE MARSHES
 PROJECT FEATURE C03, C04, C013, AND C01
 REFERENCE
 WATER CONTROL STRUCTURE
 LONGITUDINAL SECTION

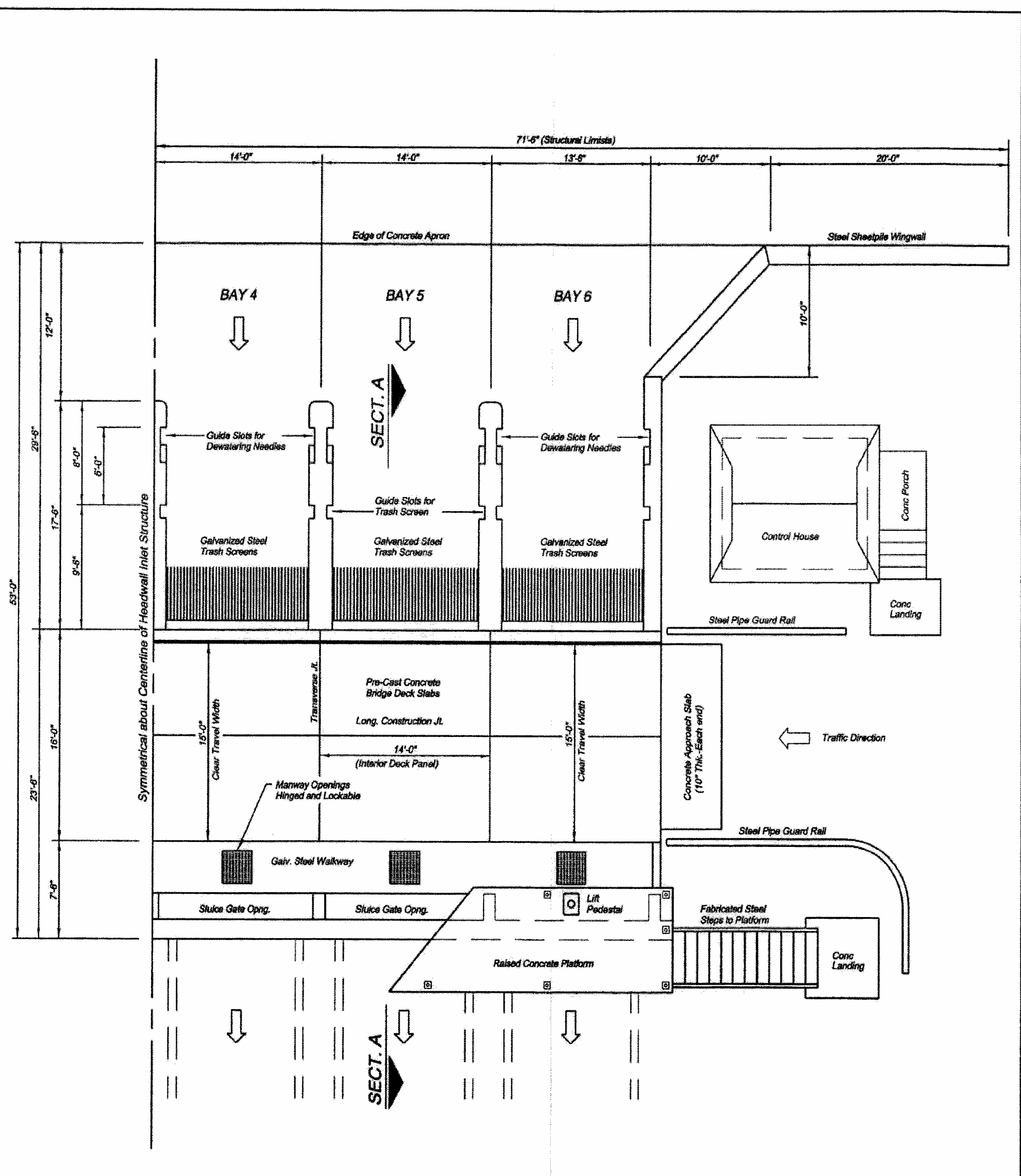
SHEET IDENTIFICATION
R-301

D
C
B
A



SECT. A - TYPICAL LONG. SECTION THRU INLET HEADWALL STRUCTURE

SCALE: 3/16" = 1'-0"



HALF-PLAN INLET HEADWALL STRUCTURE

SCALE: 3/16" = 1'-0"

EXHIBIT M

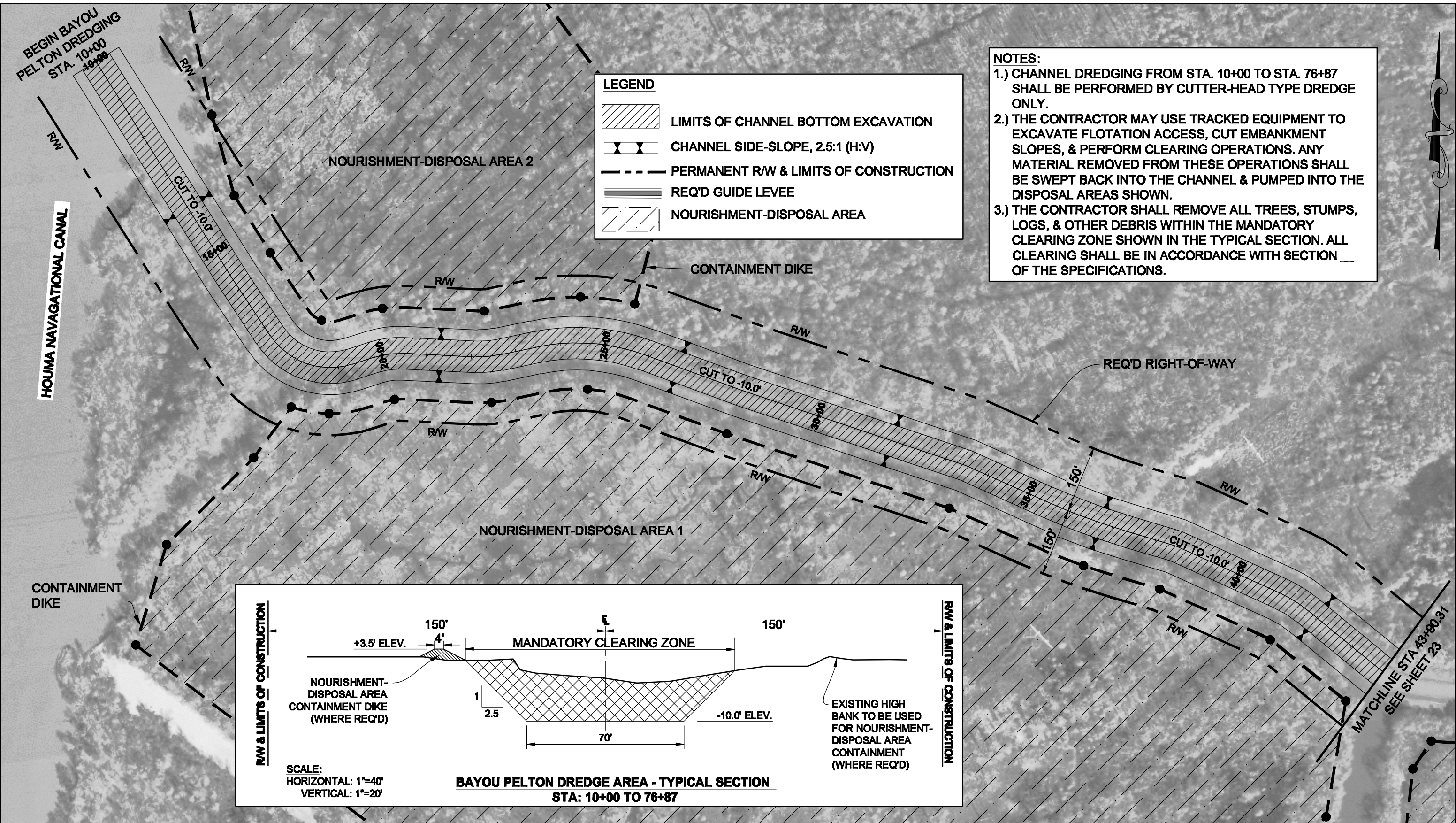


DATE	APPR.	DATE	APPR.
DESCRIPTION	MARK	DESCRIPTION	MARK
FEASIBILITY			

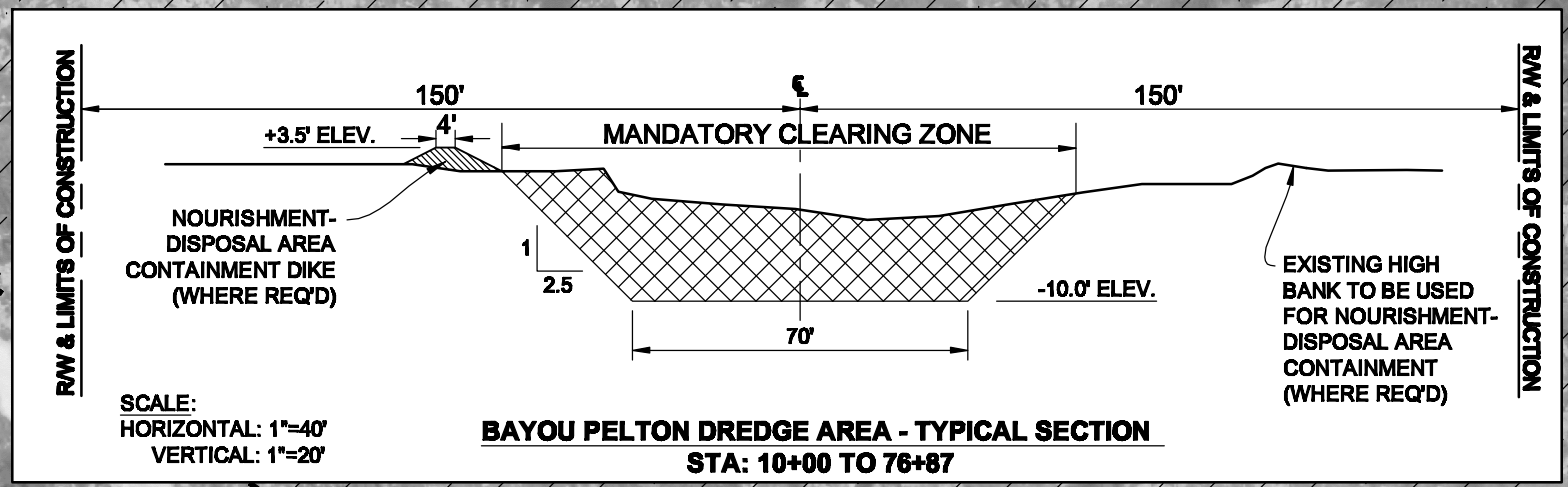
DESIGNED BY: M.E. SCHUBERT, P.E.	CHECKED BY: M.A.S.	DATE: 10/29/2009	SOLICITATION NO.:
DRAWN BY: B.M.W.	DATE: 10/29/2009	FILE NUMBER:	CONTRACT NO.:
SUBMITTED BY: STEPHEN G. PARKS, P.E.		FILE NAME:	
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA		ANSI D	
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI 63105-2833			

ATCHAFALAYA RIVER
NORTHERN TERREBONNE MARSHES
PROJECT FEATURE C03, C04, C03, AND C01
REFERENCE
WATER CONTROL STRUCTURE
LONGITUDINAL SECTION AND PLAN

SHEET IDENTIFICATION
R-302



- NOTES:**
- 1.) CHANNEL DREDGING FROM STA. 10+00 TO STA. 76+87 SHALL BE PERFORMED BY CUTTER-HEAD TYPE DREDGE ONLY.
 - 2.) THE CONTRACTOR MAY USE TRACKED EQUIPMENT TO EXCAVATE FLOTATION ACCESS, CUT EMBANKMENT SLOPES, & PERFORM CLEARING OPERATIONS. ANY MATERIAL REMOVED FROM THESE OPERATIONS SHALL BE SWEEPED BACK INTO THE CHANNEL & PUMPED INTO THE DISPOSAL AREAS SHOWN.
 - 3.) THE CONTRACTOR SHALL REMOVE ALL TREES, STUMPS, LOGS, & OTHER DEBRIS WITHIN THE MANDATORY CLEARING ZONE SHOWN IN THE TYPICAL SECTION. ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION ___ OF THE SPECIFICATIONS.



REV.	DATE	DESCRIPTION	BY
05/20/08		OOPR COMMENTS	KPR

TBS T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
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DRAWN BY: ALH DESIGNED BY: BJK

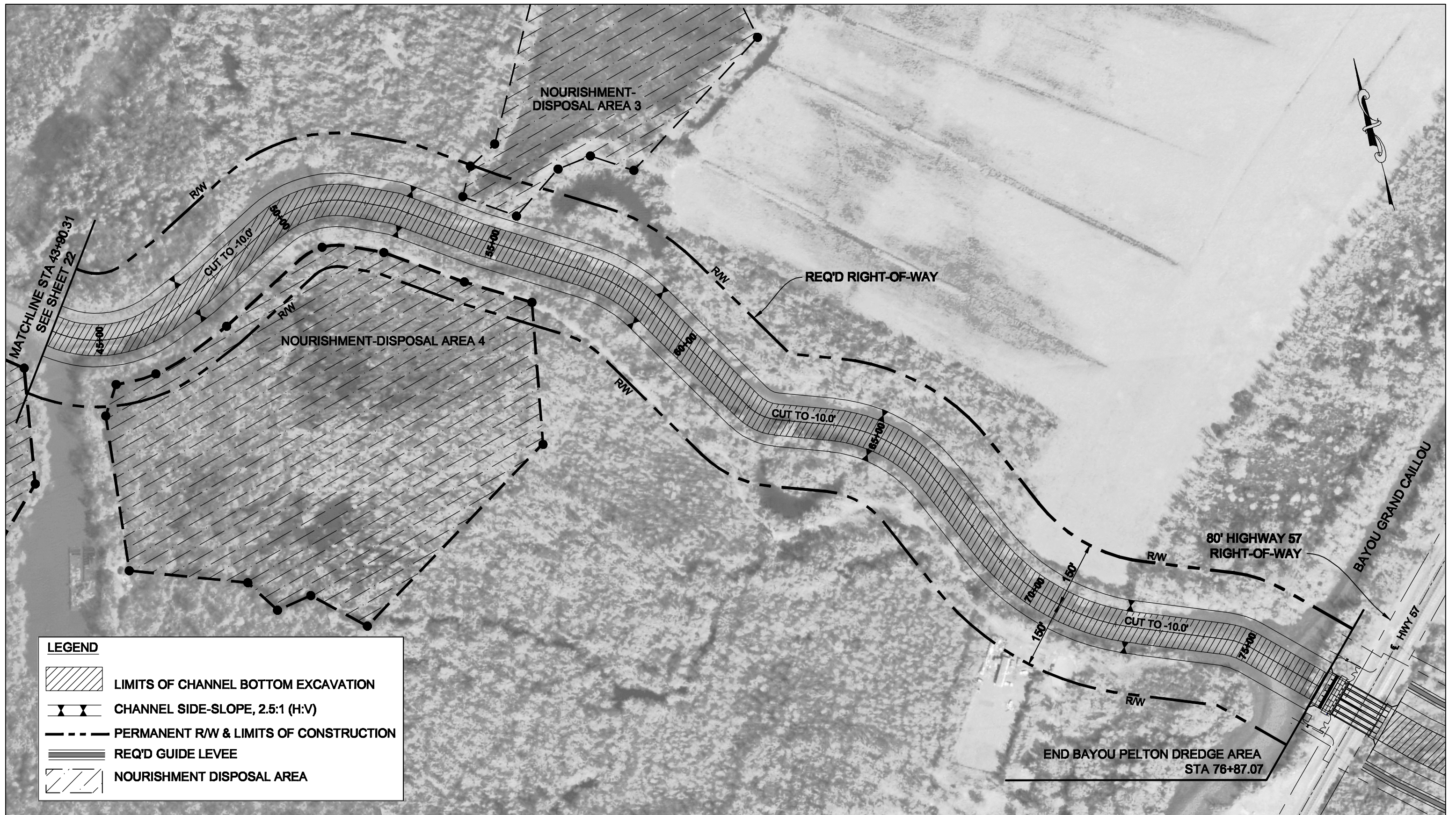
NORTH LAKE BOUDREAUX
FRESHWATER INTRODUCTION
AND HYDROLOGIC MANAGEMENT

STATE PROJECT NUMBER: TE-32a
FEDERAL PROJECT NUMBER: TE-32a

APPROVED BY: BJK

BAYOU PELTON
DREDGE AREA

R-303
FEATURE CD7



LEGEND

- LIMITS OF CHANNEL BOTTOM EXCAVATION
- CHANNEL SIDE-SLOPE, 2.5:1 (H:V)
- PERMANENT R/W & LIMITS OF CONSTRUCTION
- REQ'D GUIDE LEVEE
- NOURISHMENT DISPOSAL AREA



REV.	DATE	DESCRIPTION	BY
06/20/08		OCPR COMMENTS	KPR

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BAYOU PELTON
DREDGE AREA

**R-304
FEATURE CD7**