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- Plaquemines, Option 1
- Plaquemines, Option 2
- Salvador-Timken
- Simoneaux Ponds
- Jean Lafitte Marsh Restoration for non-Park/404(c) impacts at Yankee Pond
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Individual Environmental Report Project Areas

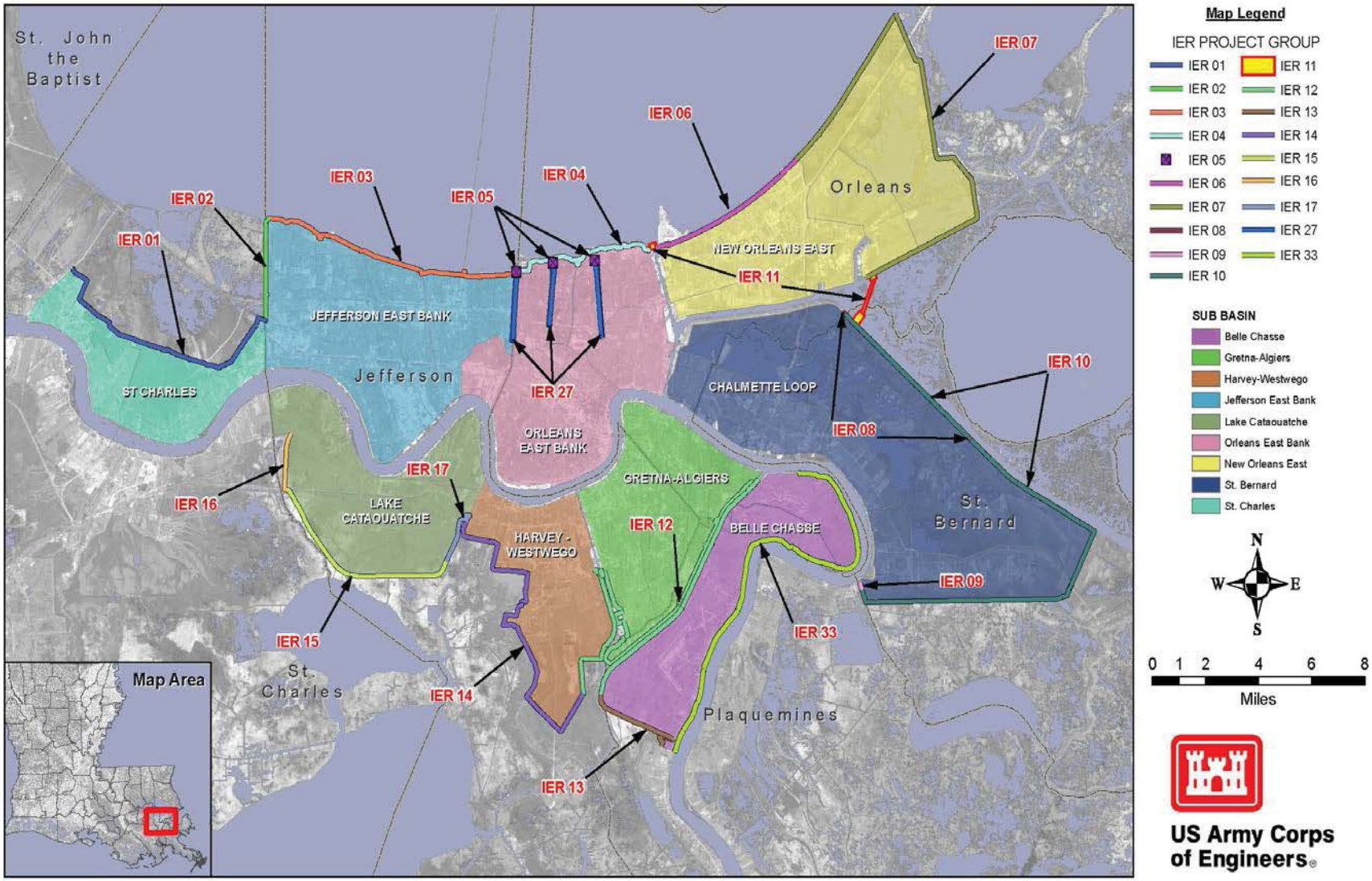

Figure A-1: HSDRRS IER Project Areas

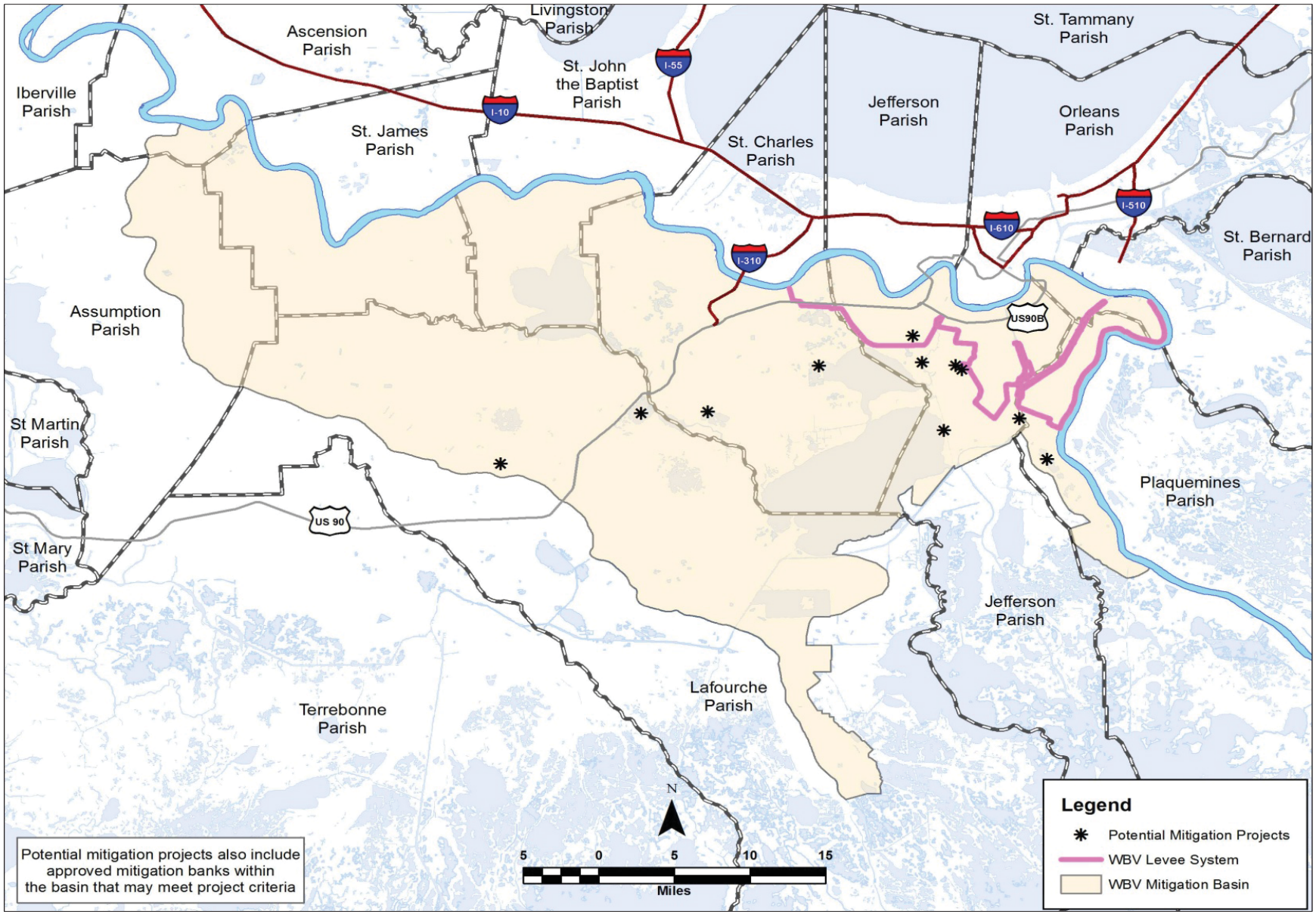

Figure A-2: WBV Mitigation Basin

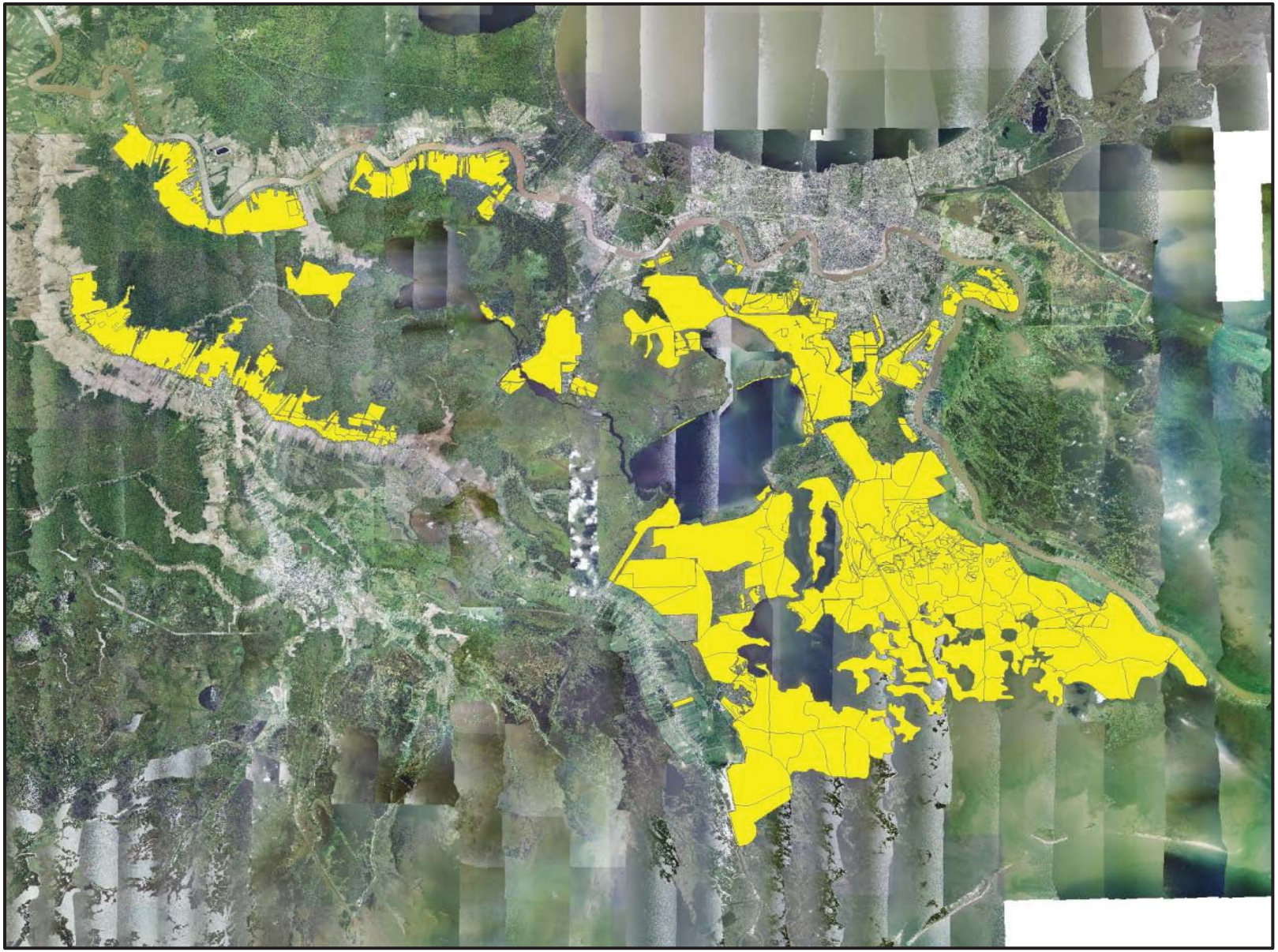

Figure A-3: WBV HSDRRS Mitigation Projects Initially Considered (Mitigation banks not shown)

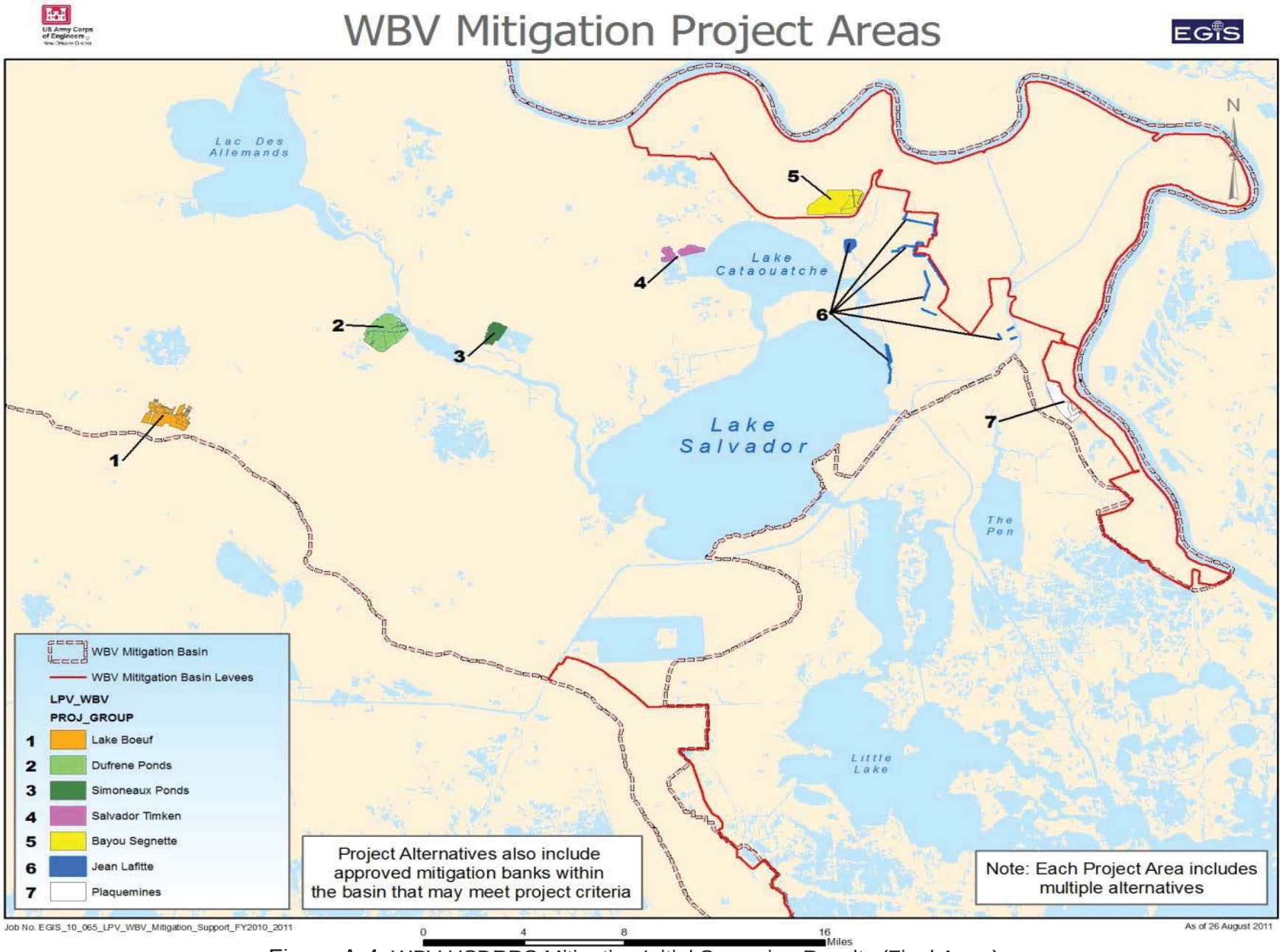

Figure A-4: WBV HSDRRS Mitigation Initial Screening Results (Final Array)

EAR Project Designs

Figure A-5:

FEATURE ID	PROPOSED HABITAT	HSDRRS OF PRE-KATRINA MITIGATION	ACRES
BS2	BLH-DRY	HSDRRS	878.0
BS3A	BLH-WET	HSDRRS	110.2
* BS3B	BLH-WET	PRE-KATRINA	86.4
BS4	BLH-DRY	HSDRRS	52.0
* BS5	BLH-WET	PRE-KATRINA	60.0
BS6	BLH-DRY	HSDRRS	21.6

+ MAIN CANAL FLOWS SW INTO AVONDALE GARDEN CANAL AND THENCE TO LAKE CATAOUATCHE PUMP STATION.

* NOTE: BS3B AND BS5 ARE SHOWN FOR INFORMATION ONLY. BOTH ARE REMOVED FROM HSDRRS IMPACT CONSIDERATION AS PRE-KATRINA FEATURES.

MITIGATION FEATURE BOUNDARY
BAYOU SEGNETTE STATE PARK BOUNDARY
PROPOSED WATER RETENTION DIKE
EXISTING DITCH/CANAL
PROPOSED CULVERT
-4.0 EXISTING ELEVATION PULLED FROM LIDAR SURVEY

NICOLLE BLVD.
ENTERGY SERVITUDE
BAYOU SEGNETTE STATE PARK
DRAKE FACILITY
+ MAIN CANAL
BEGIN WATER RETENTION DIKE
CULVERT (TYP)
BS4
BS6
BS5
BS3A
BS2
BS3B
NOLA RACETRACK
POTENTIAL DITCH CLOSURE
POTENTIAL DITCH CLOSURE
-3.3 (EXISTING EL. (TYP.))
CHEVRON PIPELINE
END WATER RETENTION DIKE
INNER CATAOUATCHE CANAL
OUTER CATAOUATCHE CANAL
WBV LEVEE (HPL)
LAKE CATAOUATCHE PUMP STATION (APPROX. 2.1 MILES)
SCALE:1"=500'

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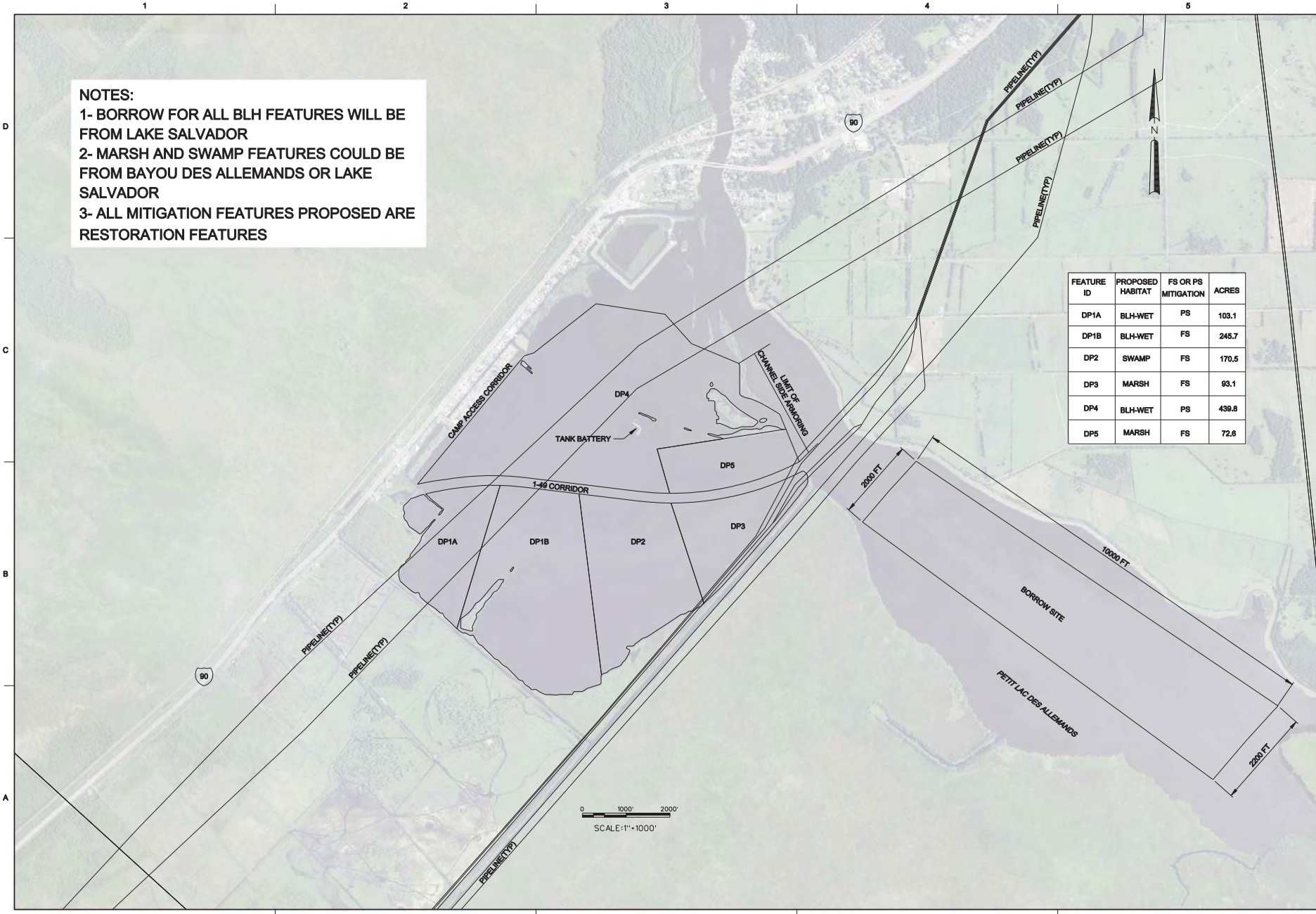
HSDRRS MITIGATION
JEFFERSON PARISH, LOUISIANA
BAYOU SEGNETTE

SHEET IDENTIFICATION
C-01

Bayou Segnette

BAYOU SEGNETTE RESIZED.dgn 8/6/2011 1:23:56 PM



FEATURE ID	PROPOSED HABITAT	FS OR PS MITIGATION	ACRES
DP1A	BLH-WET	PS	103.1
DP1B	BLH-WET	FS	245.7
DP2	SWAMP	FS	170.5
DP3	MARSH	FS	93.1
DP4	BLH-WET	PS	439.8
DP5	MARSH	FS	72.6

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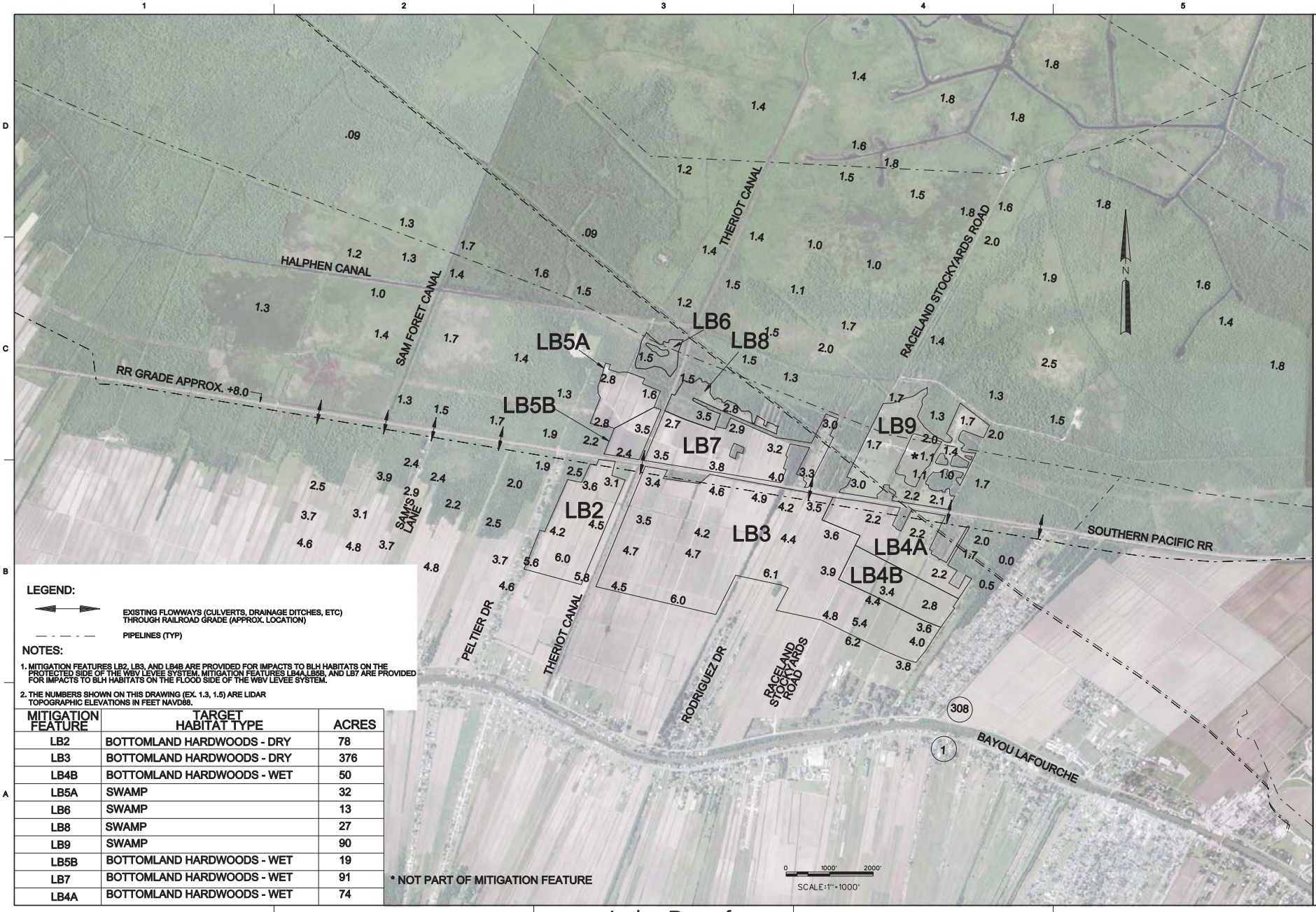
DESIGNED BY: JASON A. BINET
DWN BY: CDN
CKD BY: KO
SUBMITTED BY: JASON A. BINET
PLOT SCALE: 1000:1
PLOT DATE: MM/DD/YYYY
SIZE: ANSI D
FILE NAME: DUFRENE.DGN
DATE: 05-JULY-2011
SOLICITATION NO.: W912P8-06-X-0000
CONTRACT NO.: W912P8-06-X-0000
FILE NUMBER: H-06-00000

WEST BANK AND VICINITY , LOUISIANA
HSDRRS MITGATION ALTERNATIVES
JEFFERSON, LAFOURCHE AND PLAQUEMINES
PARISHES, LOUISIANA
DUFRENE PONDS

SHEET IDENTIFICATION
C-02

Dufrene Ponds



LEGEND:

EXISTING FLOWWAYS (CULVERTS, DRAINAGE DITCHES, ETC) THROUGH RAILROAD GRADE (APPROX. LOCATION)

PIPELINES (TYP)

NOTES:

1. MITIGATION FEATURES LB2, LB3, AND LB4B ARE PROVIDED FOR IMPACTS TO BLH HABITATS ON THE PROTECTED SIDE OF THE WBV LEVEE SYSTEM. MITIGATION FEATURES LB4A,LB5B, AND LB7 ARE PROVIDED FOR IMPACTS TO BLH HABITATS ON THE FLOOD SIDE OF THE WBV LEVEE SYSTEM.
2. THE NUMBERS SHOWN ON THIS DRAWING (EX. 1.3, 1.5) ARE LIDAR TOPOGRAPHIC ELEVATIONS IN FEET NAVD88.

MITIGATION FEATURE	TARGET HABITAT TYPE	ACRES
LB2	BOTTOMLAND HARDWOODS - DRY	78
LB3	BOTTOMLAND HARDWOODS - DRY	376
LB4B	BOTTOMLAND HARDWOODS - WET	50
LB5A	SWAMP	32
LB6	SWAMP	13
LB8	SWAMP	27
LB9	SWAMP	90
LB5B	BOTTOMLAND HARDWOODS - WET	19
LB7	BOTTOMLAND HARDWOODS - WET	91
LB4A	BOTTOMLAND HARDWOODS - WET	74

* NOT PART OF MITIGATION FEATURE

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SUBMITTED BY: Keith O'Cain
PLOT SCALE: 1000:1
PLOT DATE: 08/04/2011
SIZE: ANSI D
FILE NAME: Lake Boeuf_Final.dgn
DATE: 4-AUG-2011
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:

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NEW ORLEANS, LOUISIANA

WESTBANK AND VICINITY, LOUISIANA
HSDRRS MITIGATION
LAKE BOEUF

SWAMP AND BOTTOM LAND HARDWOOD WET AND DRY RESTORATION
LAFOURCHE PARISH

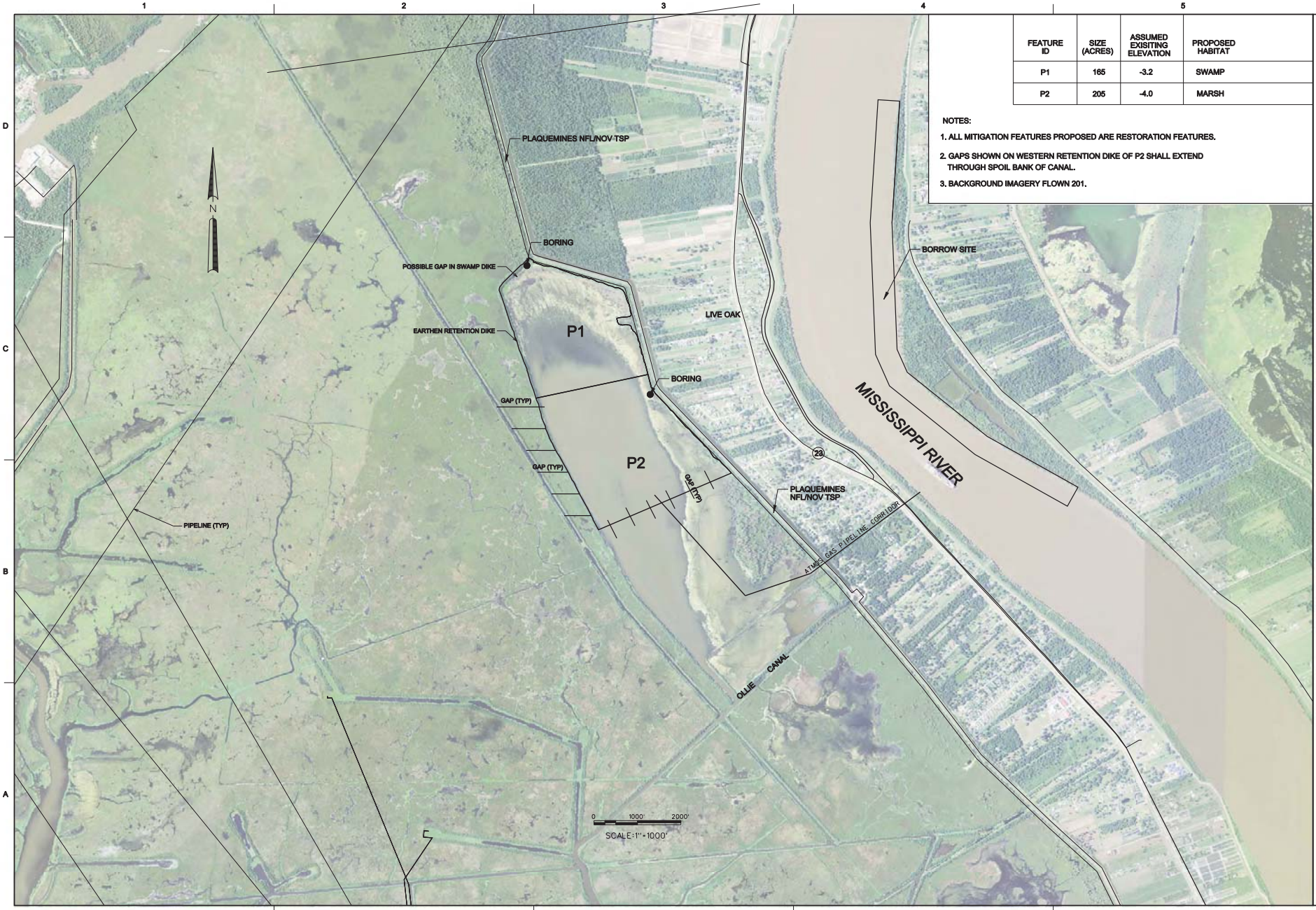
SHEET IDENTIFICATION
C-14

PHOTOGRAPHY EXPORTED FROM LA NAIP 2010

Lake Boeuf

LAST UPDATED 4 AUG 2011

Lake Boeuf Zoom



FEATURE ID	SIZE (ACRES)	ASSUMED EXISITING ELEVATION	PROPOSED HABITAT
P1	165	-3.2	SWAMP
P2	205	-4.0	MARSH

NOTES:

1. ALL MITIGATION FEATURES PROPOSED ARE RESTORATION FEATURES.
2. GAPS SHOWN ON WESTERN RETENTION DIKE OF P2 SHALL EXTEND THROUGH SPOIL BANK OF CANAL.
3. BACKGROUND IMAGERY FLOWN 201.

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CKD BY: K.J. O'Cain
SUBMITTED BY: Jason A. Blaut
PLOT SCALE: 12.00:1
PLOT DATE: 08/05/2011
SIZE: ANSI D
FILE NAME: PLATE_C16.dgn
DATE: 05-AUG-2011
SOLICITATION NO.: W912PS-08-X-0000
CONTRACT NO.: W912PS-08-X-0000
FILE NUMBER: H-08-0000

WEST BANK AND VICINITY, LOUISIANA
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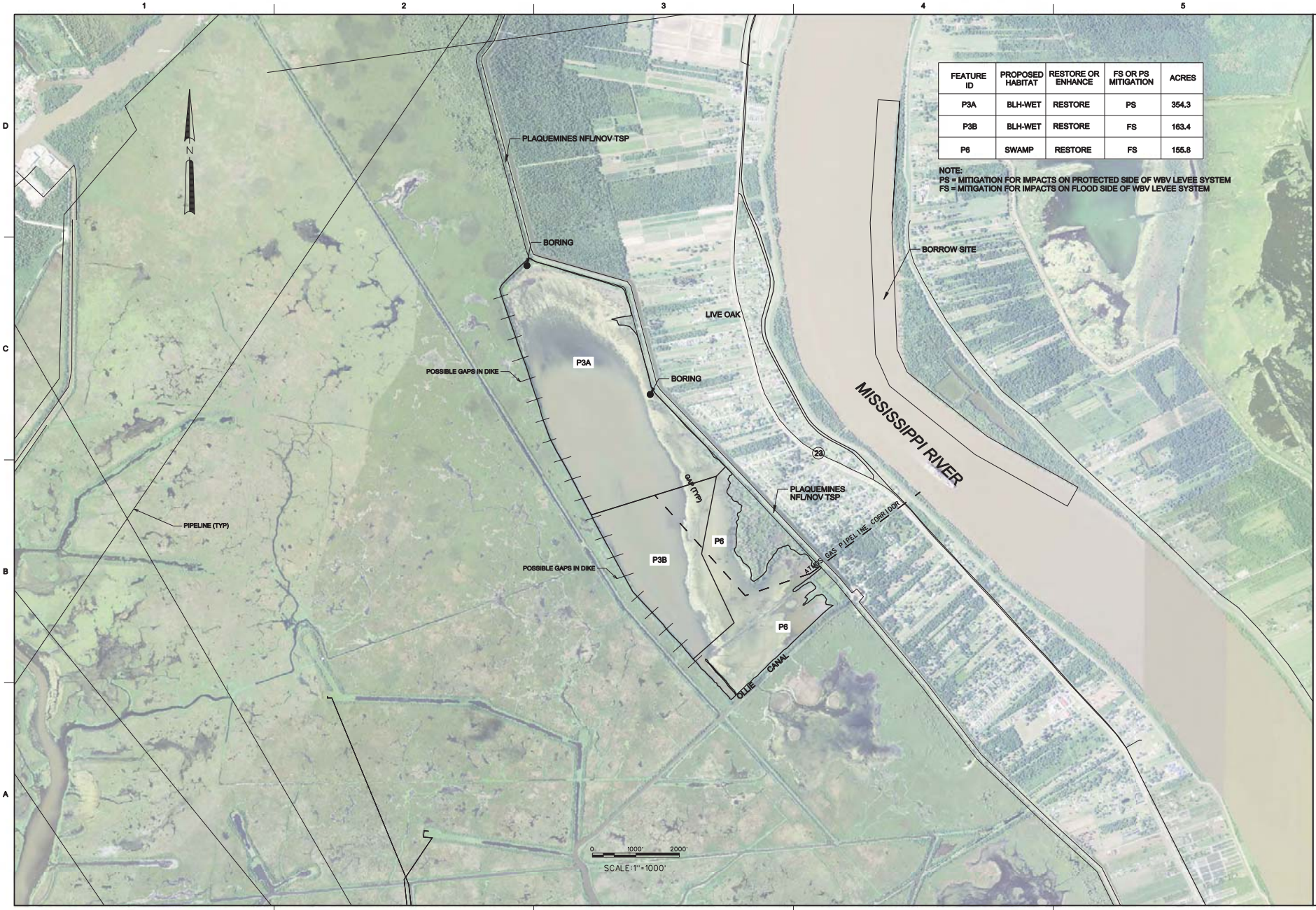
PLAQUEMINES PARISH, LOUISIANA

PLAQUEMINES PROJECT GROUP
DESIGN ALTERNATIVE #1

SHEET IDENTIFICATION
C-16

Plaquemines, Alt. 1



FEATURE ID	PROPOSED HABITAT	RESTORE OR ENHANCE	FS OR PS MITIGATION	ACRES
P3A	BLH-WET	RESTORE	PS	354.3
P3B	BLH-WET	RESTORE	FS	163.4
P6	SWAMP	RESTORE	FS	155.8

NOTE:
PS = MITIGATION FOR IMPACTS ON PROTECTED SIDE OF WBV LEVEE SYSTEM
FS = MITIGATION FOR IMPACTS ON FLOOD SIDE OF WBV LEVEE SYSTEM

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CHK'D BY: A.J. Mumphrey
QA BY: Jason A. Ebner
PLOT SCALE: 1:2.0833
PLOT DATE: 8/1/2011
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DATE: DD-Mth-YYYY
SOLICITATION NO.: W912P9-##-X-#### (EDIT)
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WEST BANK AND VICINITY, LOUISIANA
HSDRRS MITIGATION
PLAQUEMINES PARISH, LOUISIANA

PLAQUEMINES PROJECT GROUP
ALTERNATIVE #2

SHEET IDENTIFICATION
C-17

Plaquemines, Alt. 2

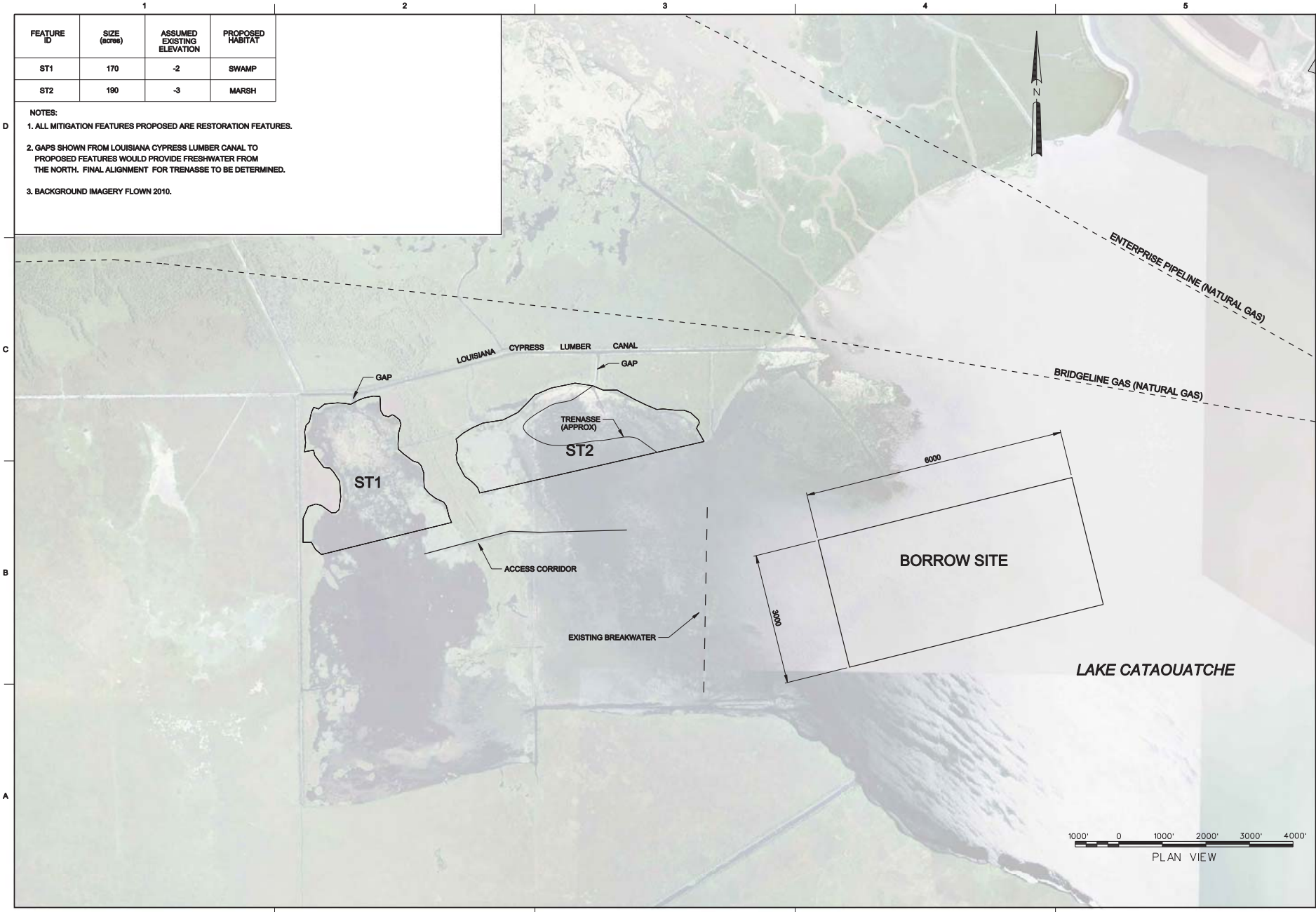
FEATURE ID	SIZE (acres)	ASSUMED EXISTING ELEVATION	PROPOSED HABITAT
ST1	170	-2	SWAMP
ST2	190	-3	MARSH

NOTES:

1. ALL MITIGATION FEATURES PROPOSED ARE RESTORATION FEATURES.

2. GAPS SHOWN FROM LOUISIANA CYPRESS LUMBER CANAL TO PROPOSED FEATURES WOULD PROVIDE FRESHWATER FROM THE NORTH. FINAL ALIGNMENT FOR TRENASSE TO BE DETERMINED.

3. BACKGROUND IMAGERY FLOWN 2010.



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CHKD BY: Jason A. Bird
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WEST BANK AND VICINITY, LOUISIANA
HSDRRS MITIGATION
ST. CHARLES PARISH, LOUISIANA

SALVADOR TIMKEN PROJECT GROUP

SHEET IDENTIFICATION
C-18

Salvador-Timken

MITIGATION	ACRES	PROPOSED HABITAT	ASSUMED EXISITING ELEVATION AVERAGE
SP2	178	MARSH	-2
SP3	176	SWAMP	-3

NOTES:

1. GAPS AND ACCESS ON SOUTHERN PERIMETER OF MARSH ELEMENT REQUIRES JACK AND BORE PIPES BENEATH HWY 306.

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PLOT DATE: 21 JULY 11
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WEST BANK AND VICINITY, LOUISIANA
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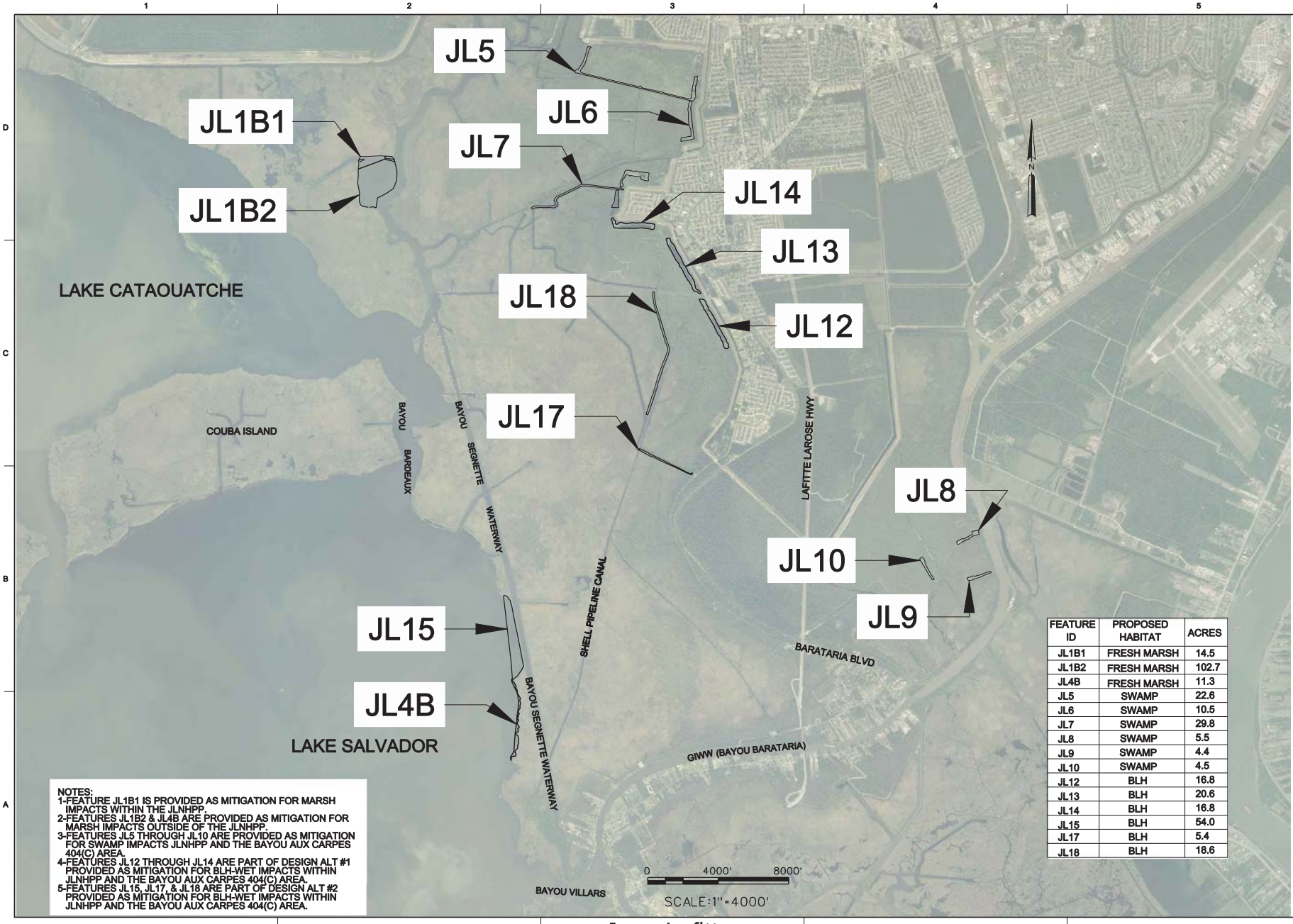
ST. CHARLES AND LAFOURCHE PARISHES, LOUISIANA
SIMONEAUX PONDS

SHEET IDENTIFICATION
C-19

Simoneaux Ponds



FEATURE ID	PROPOSED HABITAT	ACRES
JL1B1	FRESH MARSH	14.5
JL1B2	FRESH MARSH	102.7
JL4B	FRESH MARSH	11.3
JL5	SWAMP	22.6
JL6	SWAMP	10.5
JL7	SWAMP	29.8
JL8	SWAMP	5.5
JL9	SWAMP	4.4
JL10	SWAMP	4.5
JL12	BLH	16.8
JL13	BLH	20.6
JL14	BLH	16.8
JL15	BLH	54.0
JL17	BLH	5.4
JL18	BLH	18.6

NOTES:
1-FEATURE JL1B1 IS PROVIDED AS MITIGATION FOR MARSH IMPACTS WITHIN THE JLNHPP.
2-FEATURES JL1B2 & JL4B ARE PROVIDED AS MITIGATION FOR MARSH IMPACTS OUTSIDE OF THE JLNHPP.
3-FEATURES JL5 THROUGH JL10 ARE PROVIDED AS MITIGATION FOR SWAMP IMPACTS JLNHPP AND THE BAYOU AUX CARPES 404(C) AREA.
4-FEATURES JL12 THROUGH JL14 ARE PART OF DESIGN ALT #1 PROVIDED AS MITIGATION FOR BLH-WET IMPACTS WITHIN JLNHPP AND THE BAYOU AUX CARPES 404(C) AREA.
5-FEATURES JL15, JL17, & JL18 ARE PART OF DESIGN ALT #2 PROVIDED AS MITIGATION FOR BLH-WET IMPACTS WITHIN JLNHPP AND THE BAYOU AUX CARPES 404(C) AREA.

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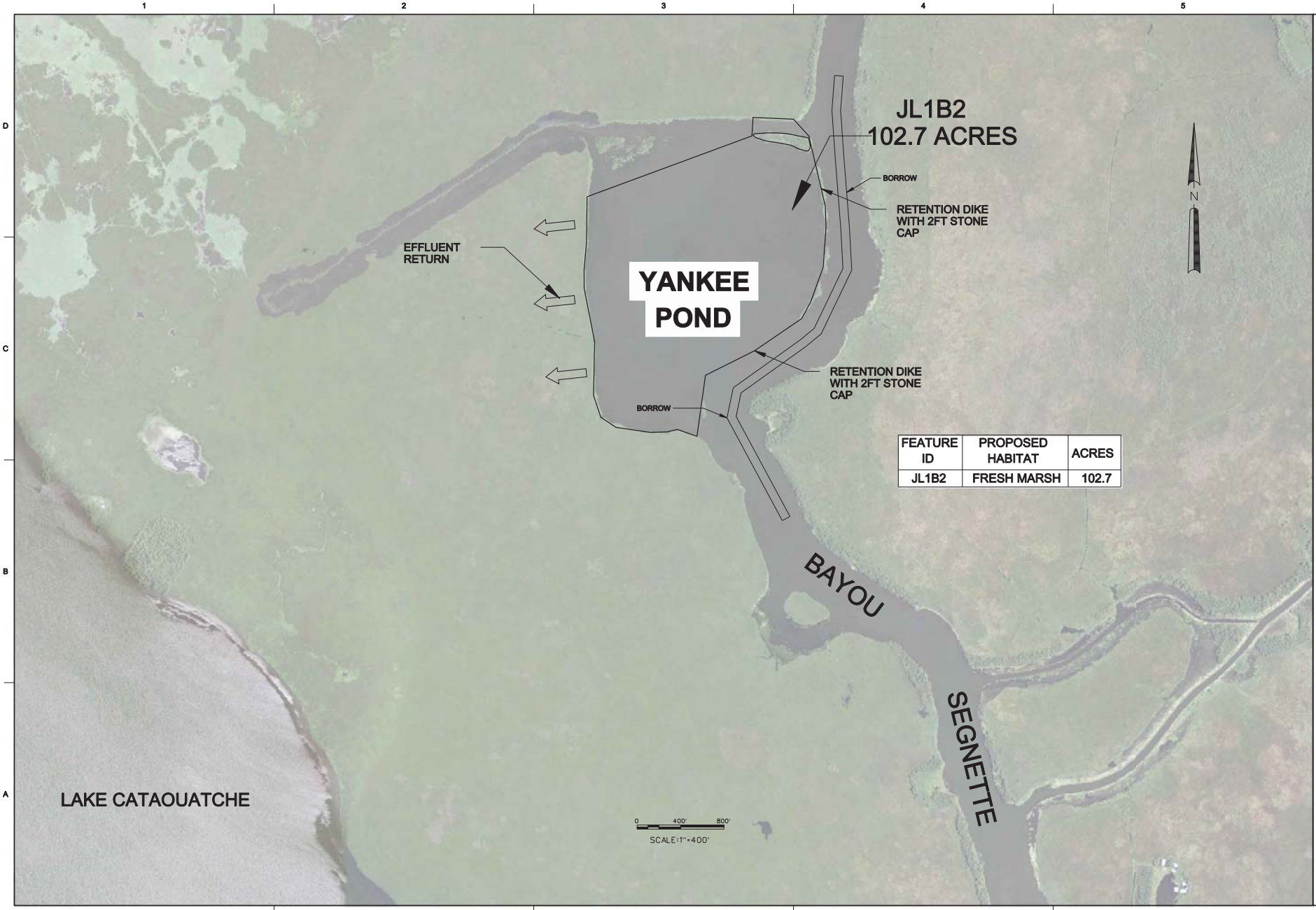
CKD BY: JB
SUBMITTED BY:
PLOT SCALE: 4000:1
PLOT DATE: JULY 2011
SIZE: ANSI D
FILE NAME: XXXXXXXX.dgn
DATE: JULY 2011
SOLICITATION NO.: W912P8-08-X-0000
CONTRACT NO.: W912P8-08-X-0000
FILE NUMBER: H-08-00000

WBV MITIGATION
JEAN LAFITTE NATIONAL HISTORICAL PARK AND PRESERVE
FEATURES
LOCATION MAP

SHEET IDENTIFICATION
C-03

Jean Lafitte

C-03 JLNHPP COVER SHEET.dgn 8/8/2011 2:56:35 PM



FEATURE ID	PROPOSED HABITAT	ACRES
JL1B2	FRESH MARSH	102.7

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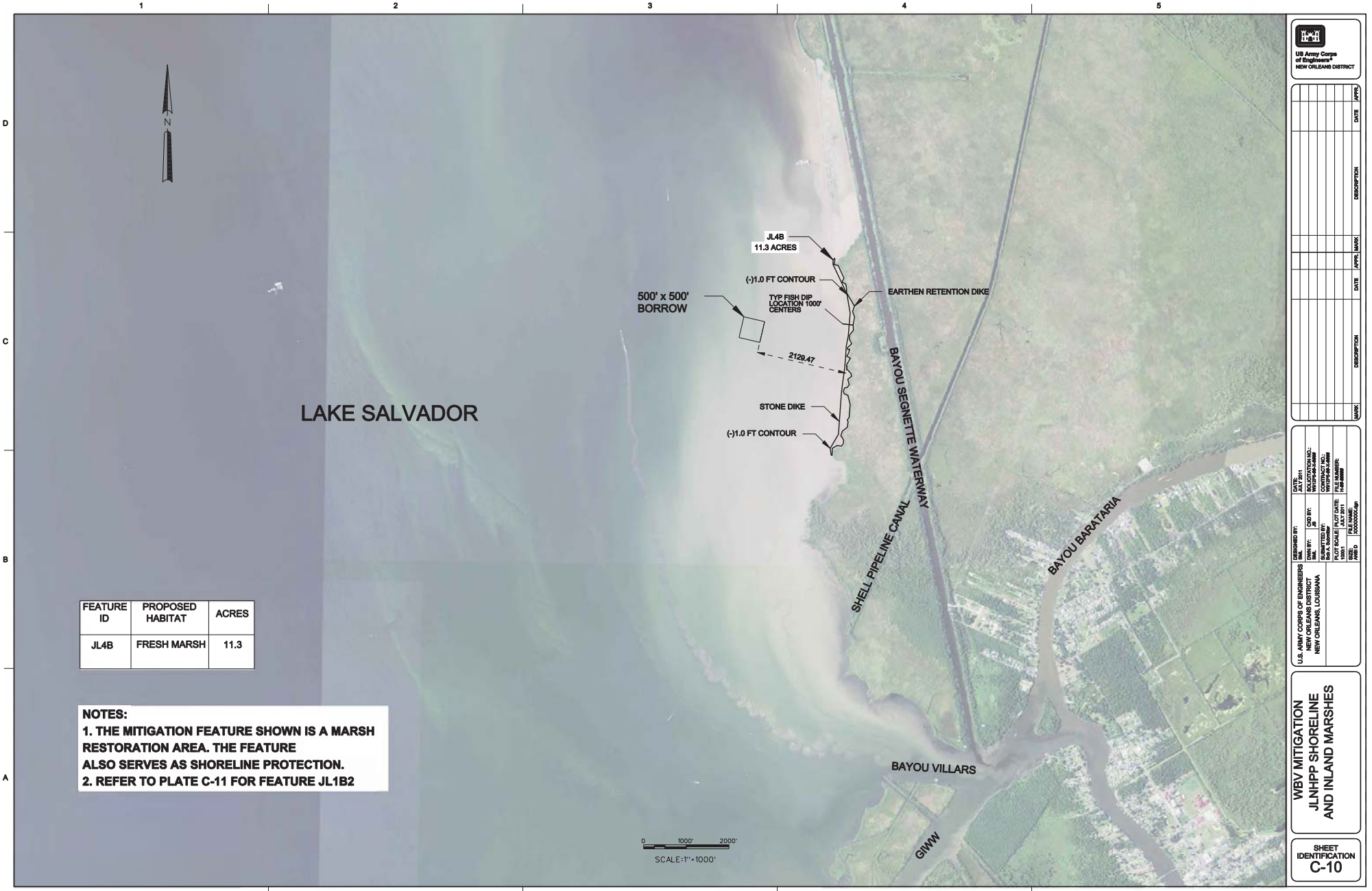
SUBMITTED BY:
DATE: JULY 2011
SOLICITATION NO.: W912P8-##-X-####
CONTRACT NO.: W912P8-##-X-####
FILE NUMBER: 1-##-####
PLOT SCALE: 40X1
PLOT DATE: JULY 2011
FILE NAME: XXXXXXXXX.dgn
AMSD ID

WBV MITIGATION
JLNHPP SHORELINE
AND INLAND MARSHES

SHEET IDENTIFICATION
C-11

Jean Lafitte Marsh Restoration for non-Park/404(c) impacts at Yankee Pond



FEATURE ID	PROPOSED HABITAT	ACRES
JL4B	FRESH MARSH	11.3

NOTES:
1. THE MITIGATION FEATURE SHOWN IS A MARSH RESTORATION AREA. THE FEATURE ALSO SERVES AS SHORELINE PROTECTION.
2. REFER TO PLATE C-11 FOR FEATURE JL1B2

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CKD BY: JB
SUBMITTED BY: Bob A. Schmitter
PLOT SCALE: 1000:1
PLOT DATE: JULY 2011
SIZE: ANSI D
FILE NAME: XXXXXXXX.dgn
DATE: JULY 2011
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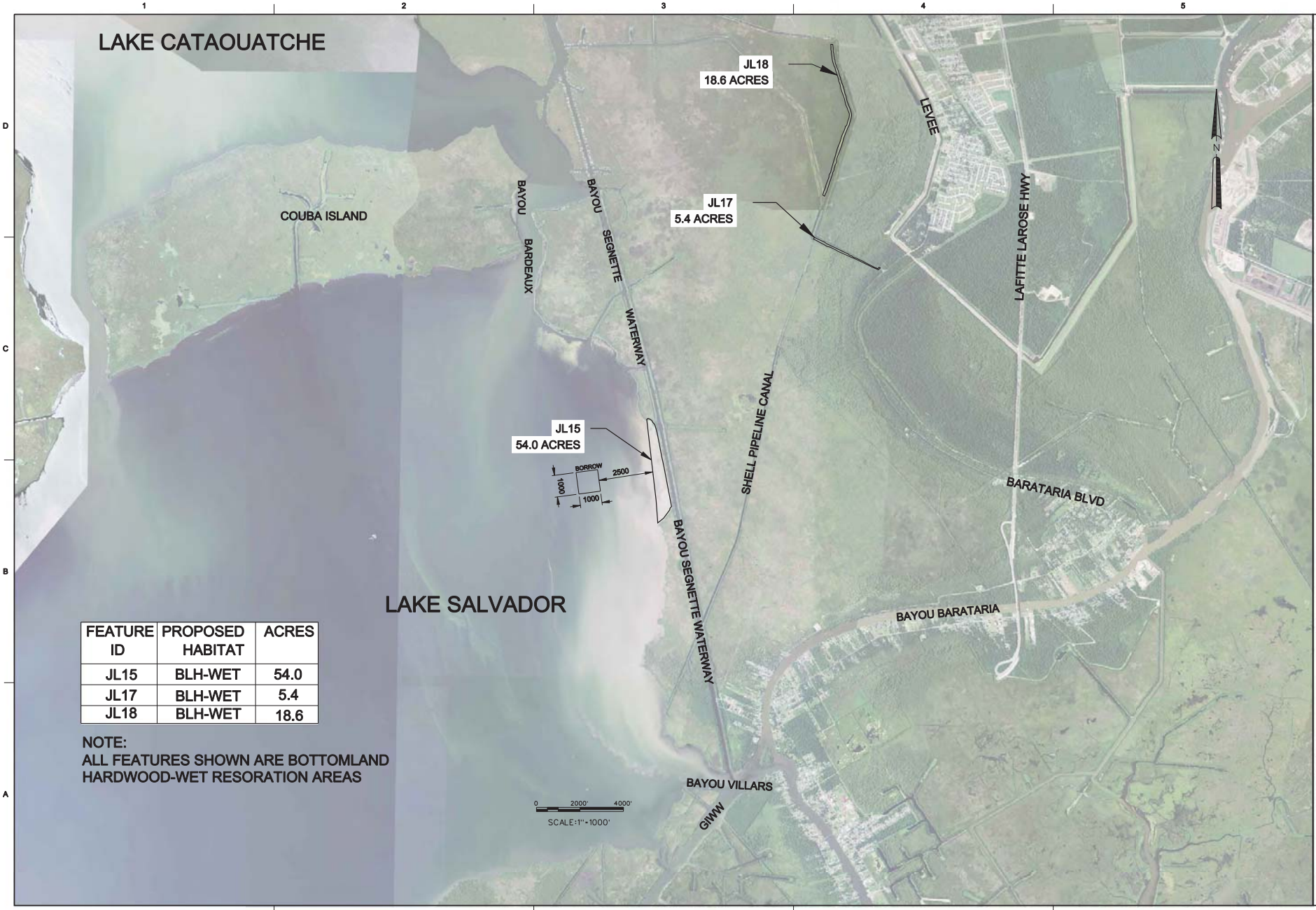
FILE NUMBER: H-08-00000

WBV MITIGATION
JLNHPP SHORELINE
AND INLAND MARSHES

SHEET IDENTIFICATION
C-10

Jean Lafitte Marsh Restoration for non-Park/404(c) impacts on Lake Cataouatche



FEATURE ID	PROPOSED HABITAT	ACRES
JL15	BLH-WET	54.0
JL17	BLH-WET	5.4
JL18	BLH-WET	18.6

NOTE:
ALL FEATURES SHOWN ARE BOTTOMLAND HARDWOOD-WET RESORATION AREAS

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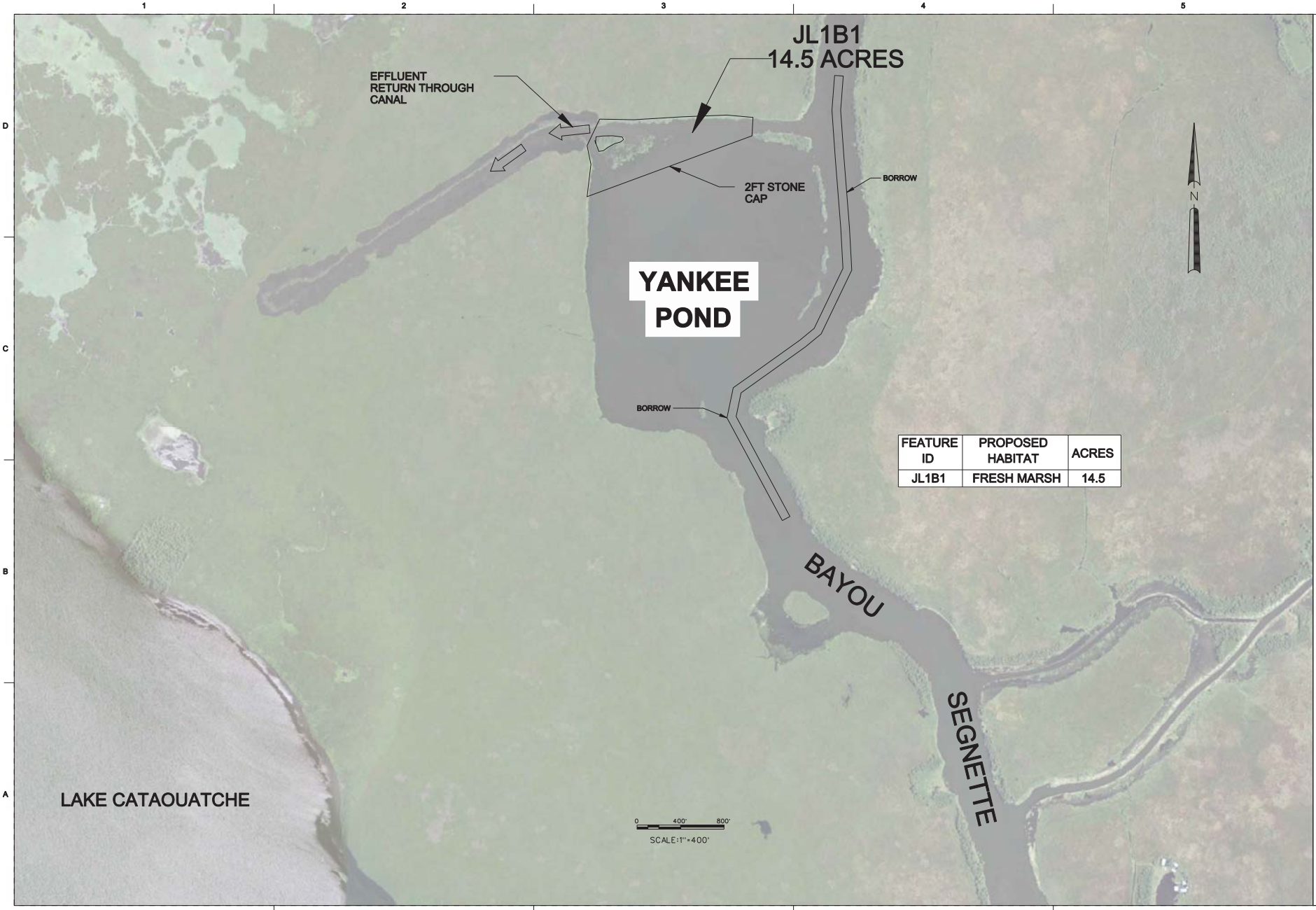
SUBMITTED BY: Bob A. Submitter
PLOT SCALE: 2000:1
PLOT DATE: JULY 2011
SIZE: ANSI D
FILE NAME: XXXXXXXX.dgn
DATE: JULY 2011
SOLICITATION NO.: W912P8-08-X-0000
CONTRACT NO.: W912P8-08-X-0000
FILE NUMBER: H-08-00000

WBV MITIGATION
JLNHPP BOTTOMLAND
HARDWOOD-WET
RESTORE
ALTERNATIVE #2

SHEET IDENTIFICATION
C-07

Jean Lafitte Marsh Restoration for non-Park/404(c) impacts at Geocrib

C-07 BLH-wet Alt#2.dgn 8/8/2011 3:03:14 PM



FEATURE ID	PROPOSED HABITAT	ACRES
JL1B1	FRESH MARSH	14.5

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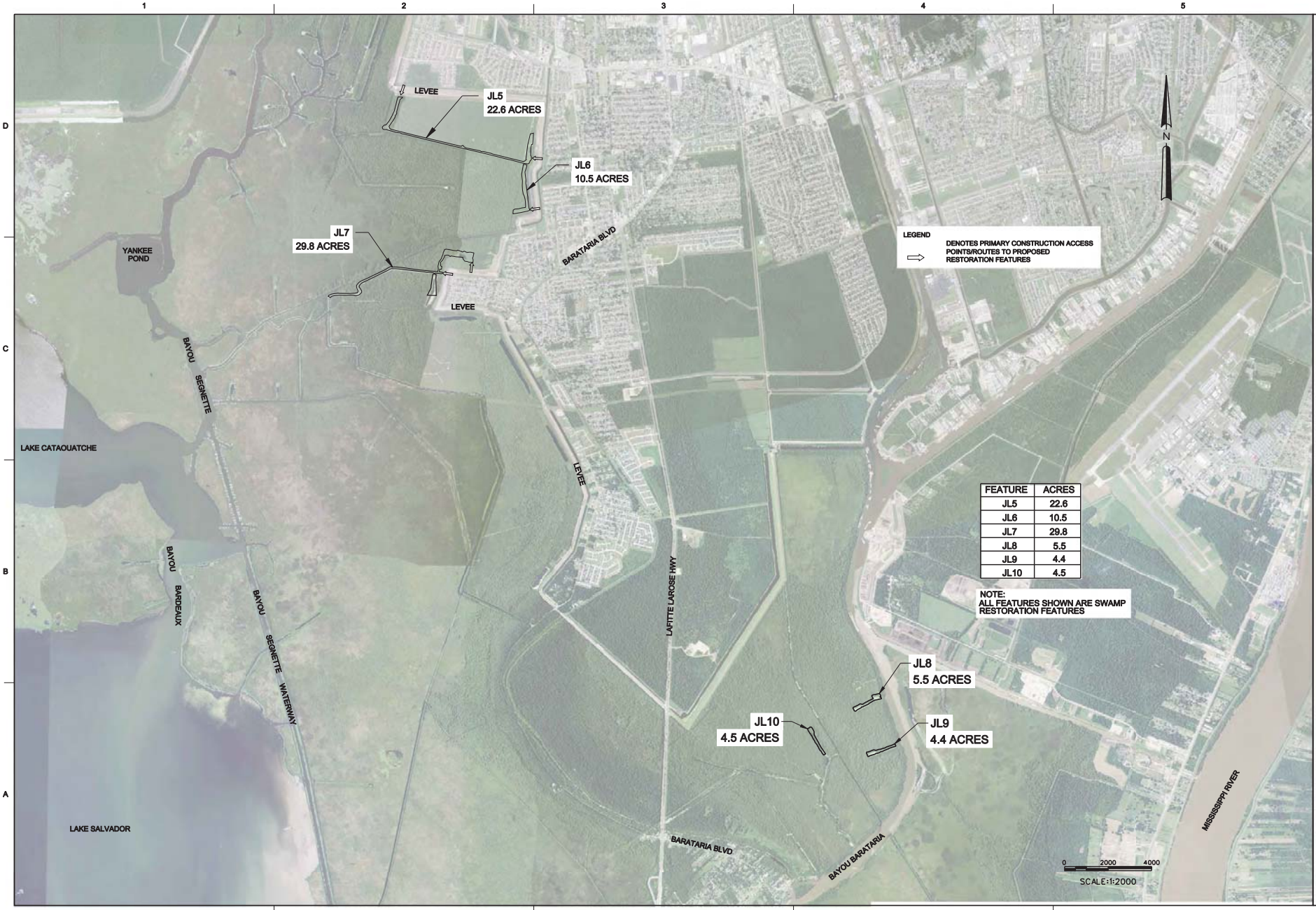
WBV MITIGATION
JLNHPP SHORELINE
AND INLAND MARSHES
JLNHPP PARK MARSH IMPACT
MITIGATION SITE

SHEET IDENTIFICATION
C-04

Jean Lafitte Marsh Restoration for Park/404(c) impacts

Jean Lafitte BLH-Wet Restoration for Park/404(c) impacts



FEATURE	ACRES
JL5	22.6
JL6	10.5
JL7	29.8
JL8	5.5
JL9	4.4
JL10	4.5

NOTE:
ALL FEATURES SHOWN ARE SWAMP RESTORATION FEATURES

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

DESIGNED BY: [illegible]
DWN BY: [illegible]
CHKD BY: JB
QUANTITIES BY: Bob A. Alsheimer
DATE: JULY 2011
SOLICITATION NO.: W912P8-09-X-0000
CONTRACT NO.: W912P8-09-C-0000
PLOT SCALE: 20:1
PLOT DATE: AS CURRENTLY
FILE NUMBER: H:\dd.dgn
SIZE: ANSI D
FILE NAME: 000000000.dgn

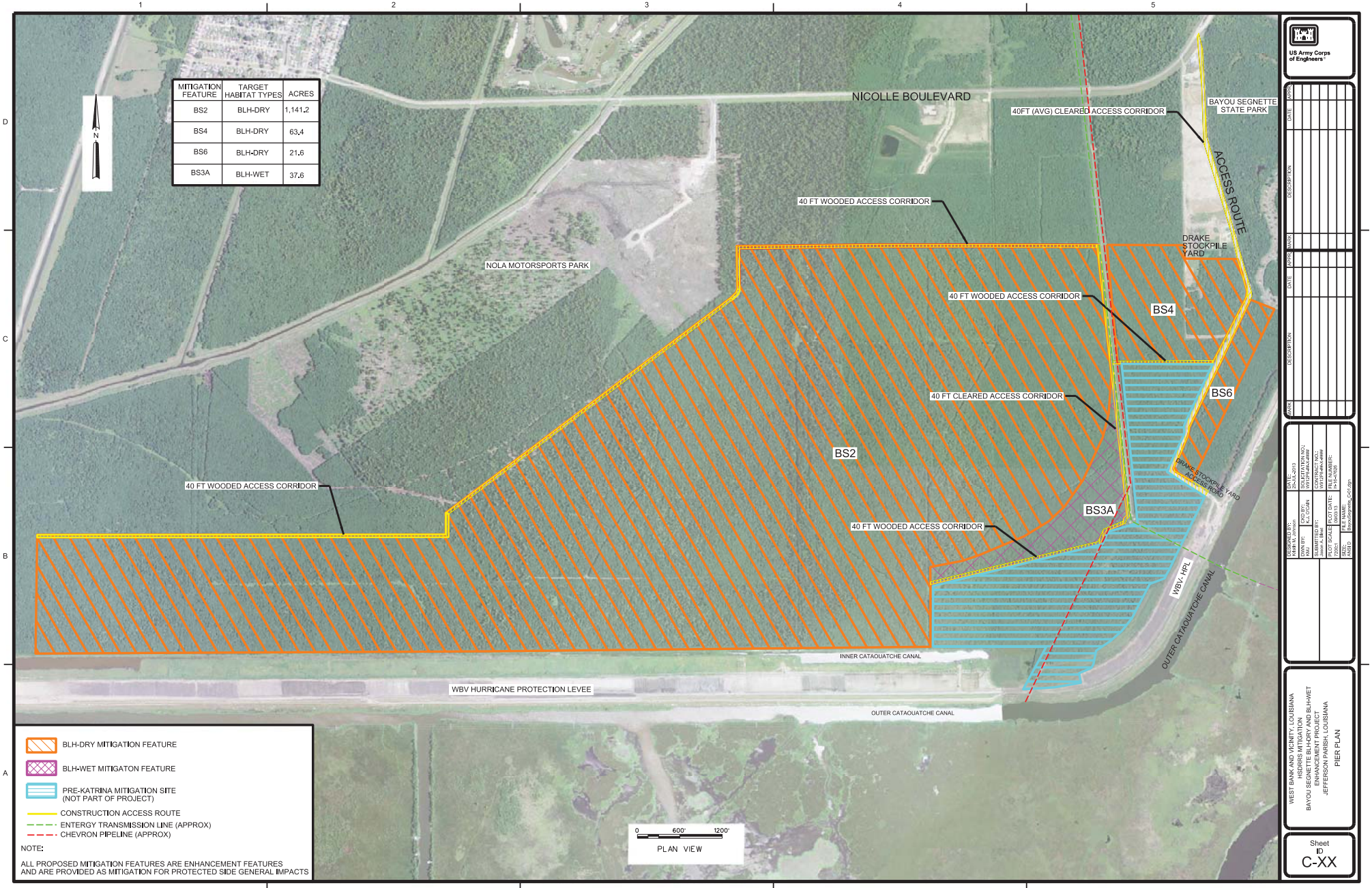
WEST BANK AND VICINITY, LOUISIANA
HSDRRS MITIGATION
JEFFERSON LAFOURCHE, AND PLAQUEMINES PARISHES, LOUISIANA
JEAN LAFITTE SWAMP RESTORATION

SHEET IDENTIFICATION
C-09

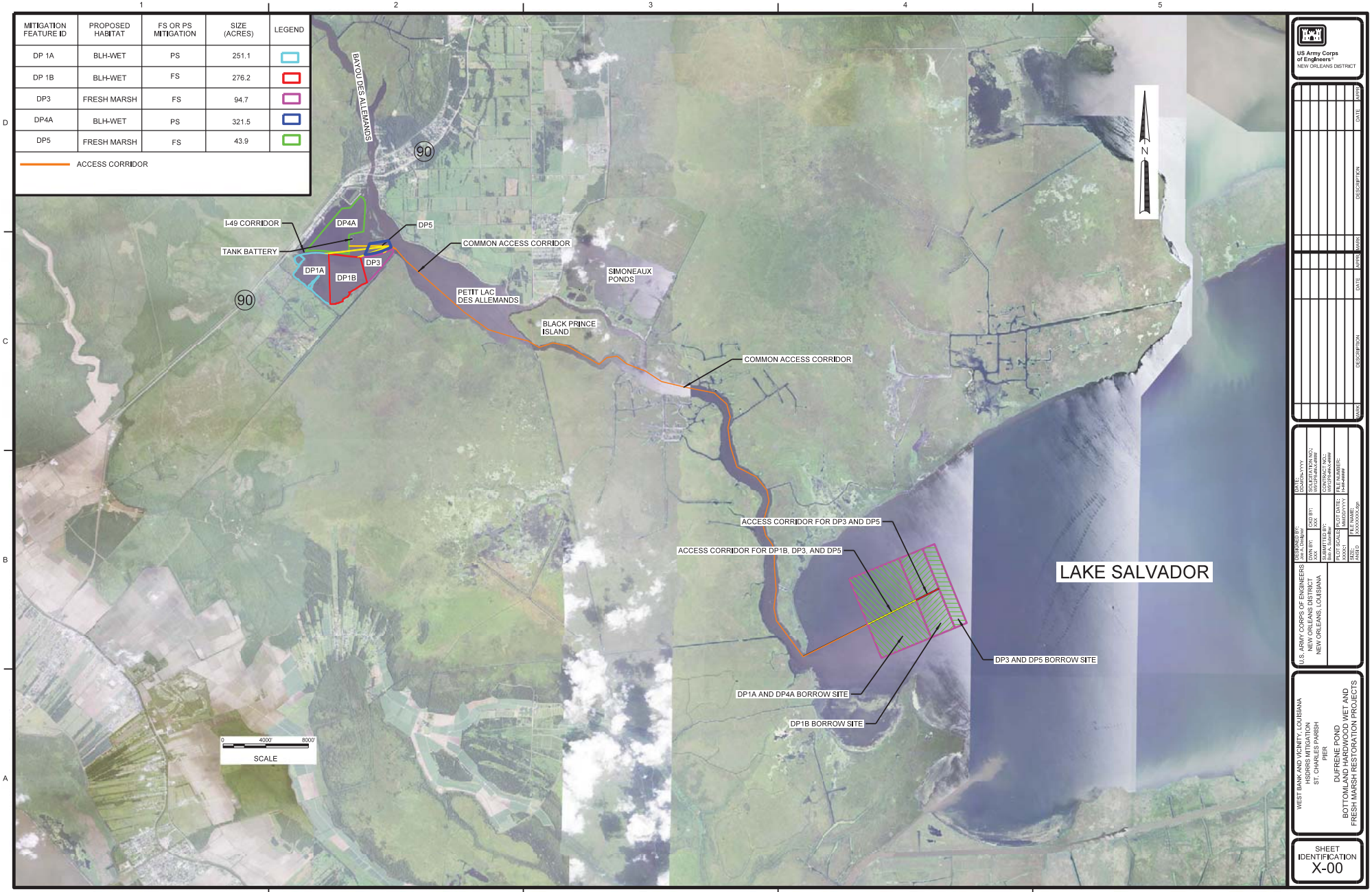
Jean Lafitte Swamp Restoration for Park/404(c) impacts

PIER Project Designs

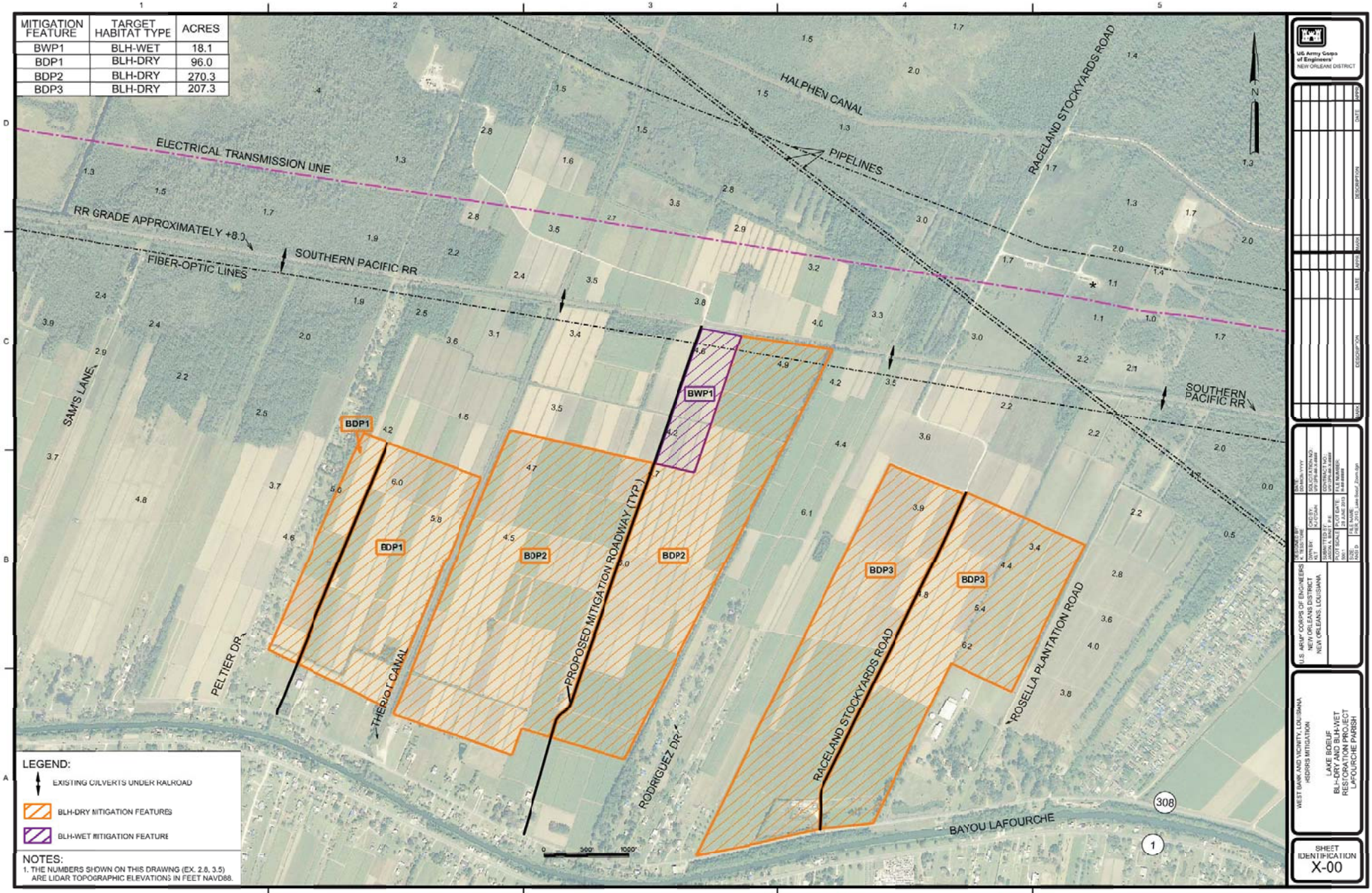
Figure A-6:



Bayou Segnette



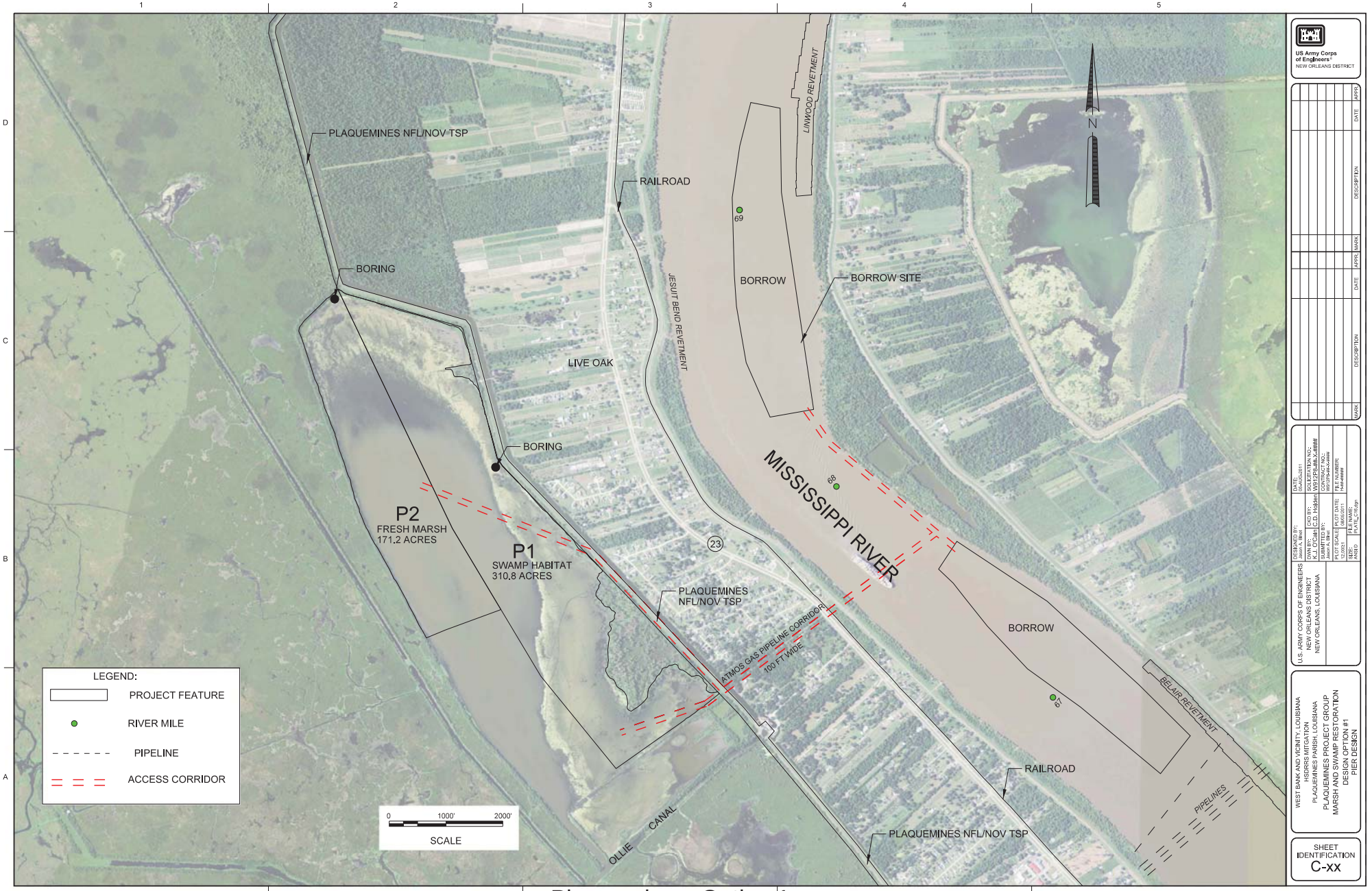
Dufrene Ponds



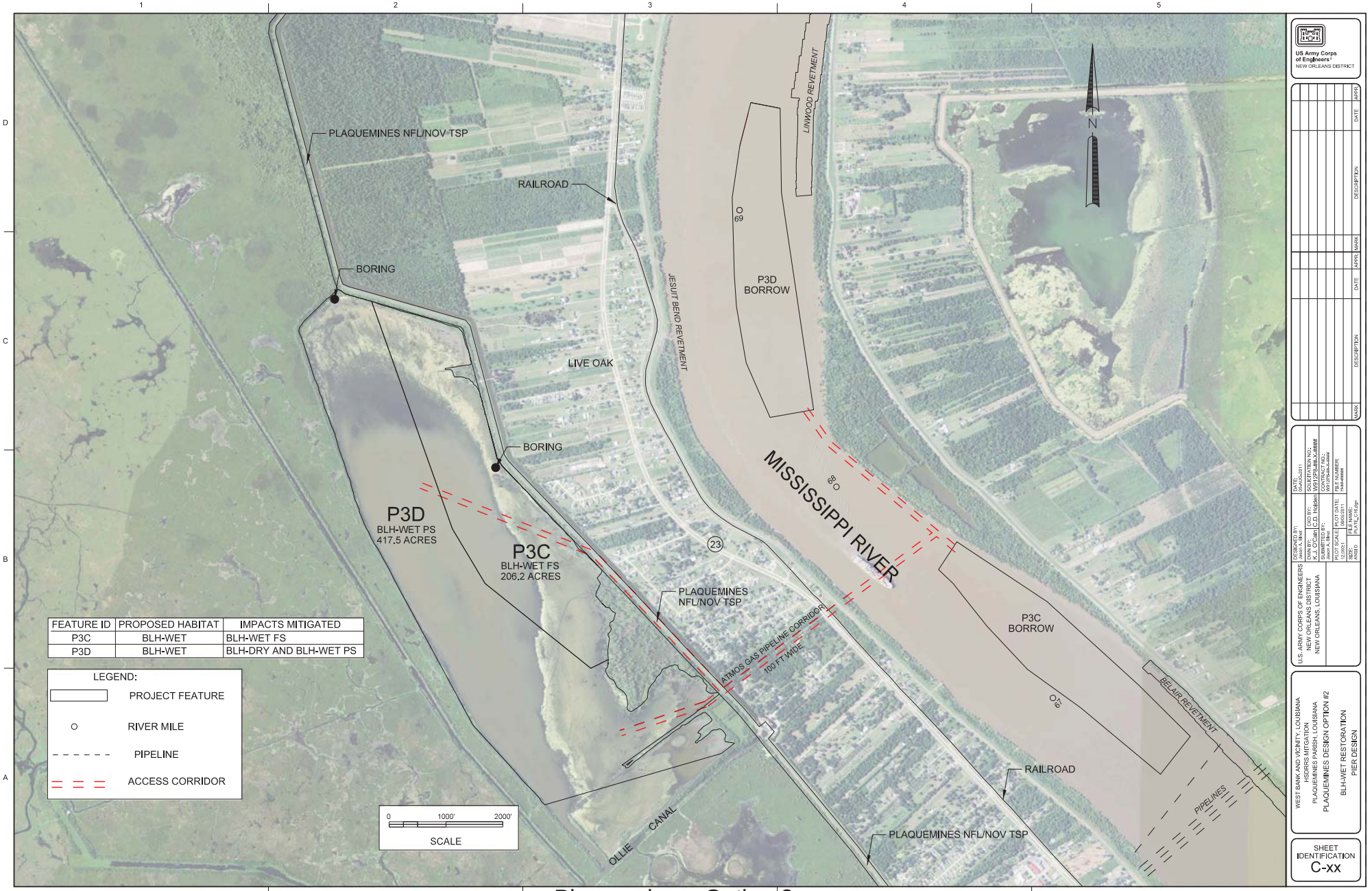
Lake Boeuf BLH-Dry & BLH-Wet Restoration

Lake Boeuf BLH-Wet Restoration

Lake Boeuf Swamp Restoration



Plaquemines, Option 1



FEATURE ID	PROPOSED HABITAT	IMPACTS MITIGATED
P3C	BLH-WET	BLH-WET FS
P3D	BLH-WET	BLH-DRY AND BLH-WET PS

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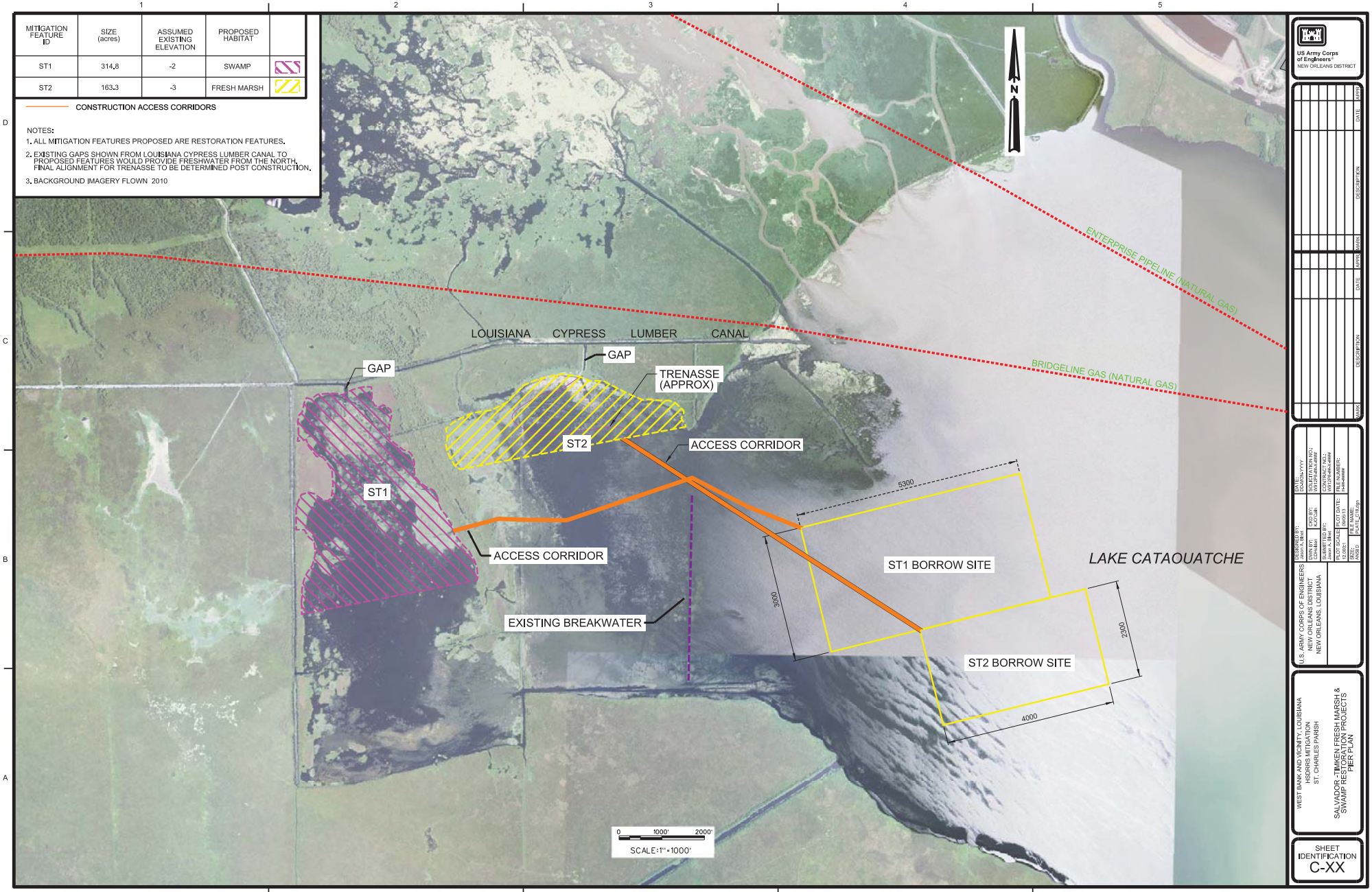
WEST BANK AND VICINITY, LOUISIANA
HSDRRS MITIGATION
PLAQUEMINES PARISH, LOUISIANA

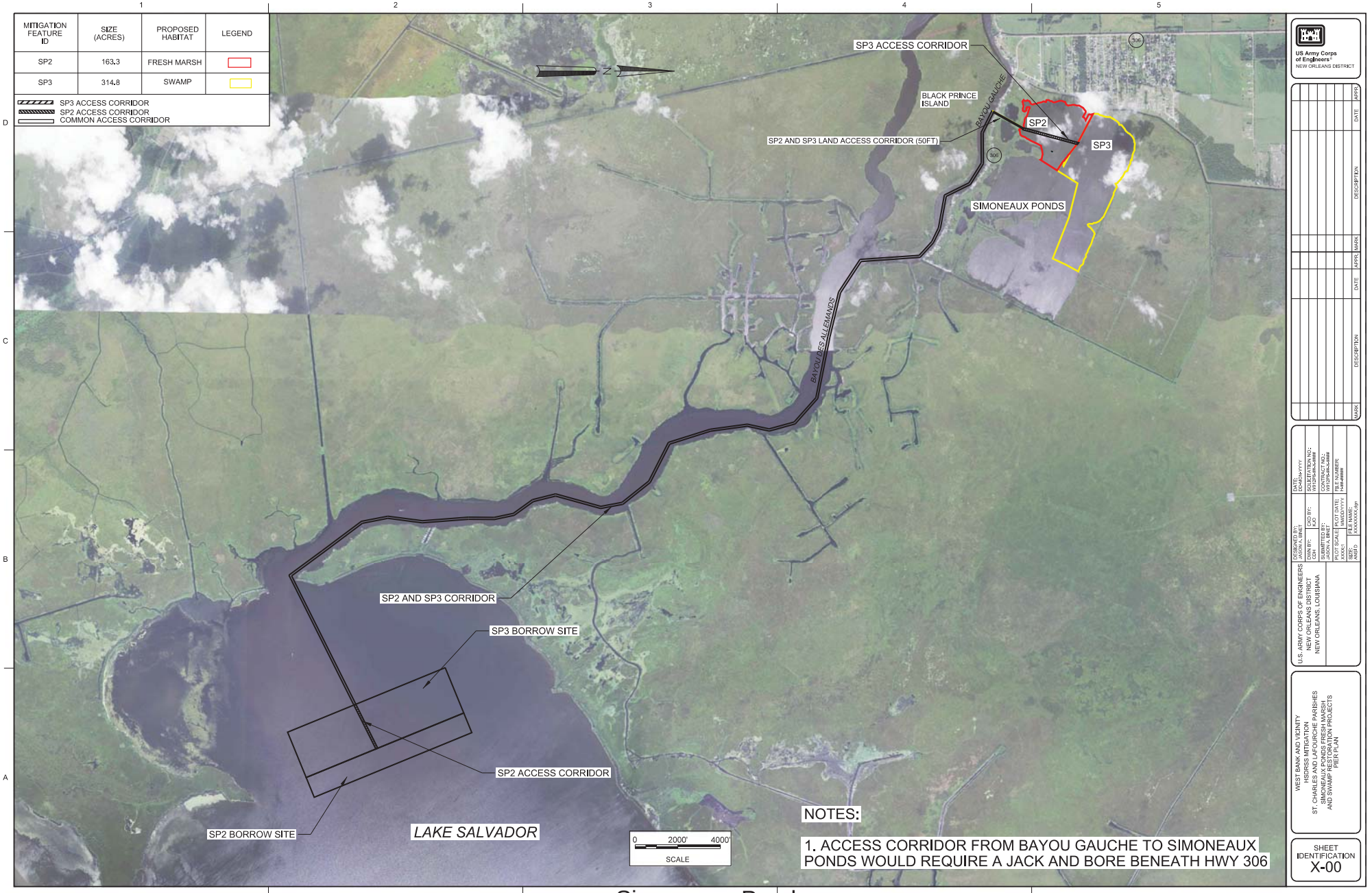
PLAQUEMINES DESIGN OPTION #2
BLH-WET RESTORATION
PIER DESIGN

SHEET IDENTIFICATION
C-xx

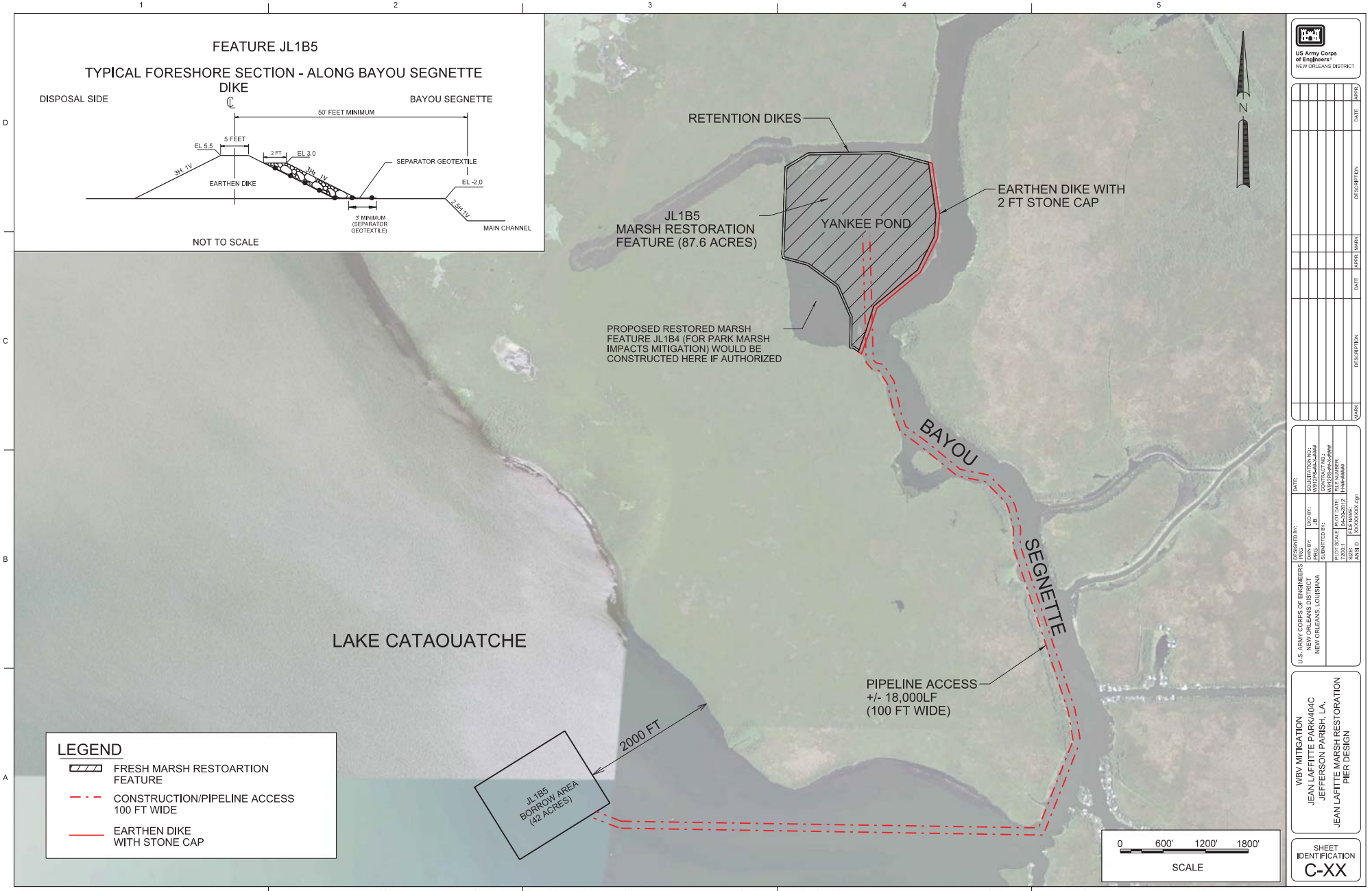
Plaquemines, Option 2



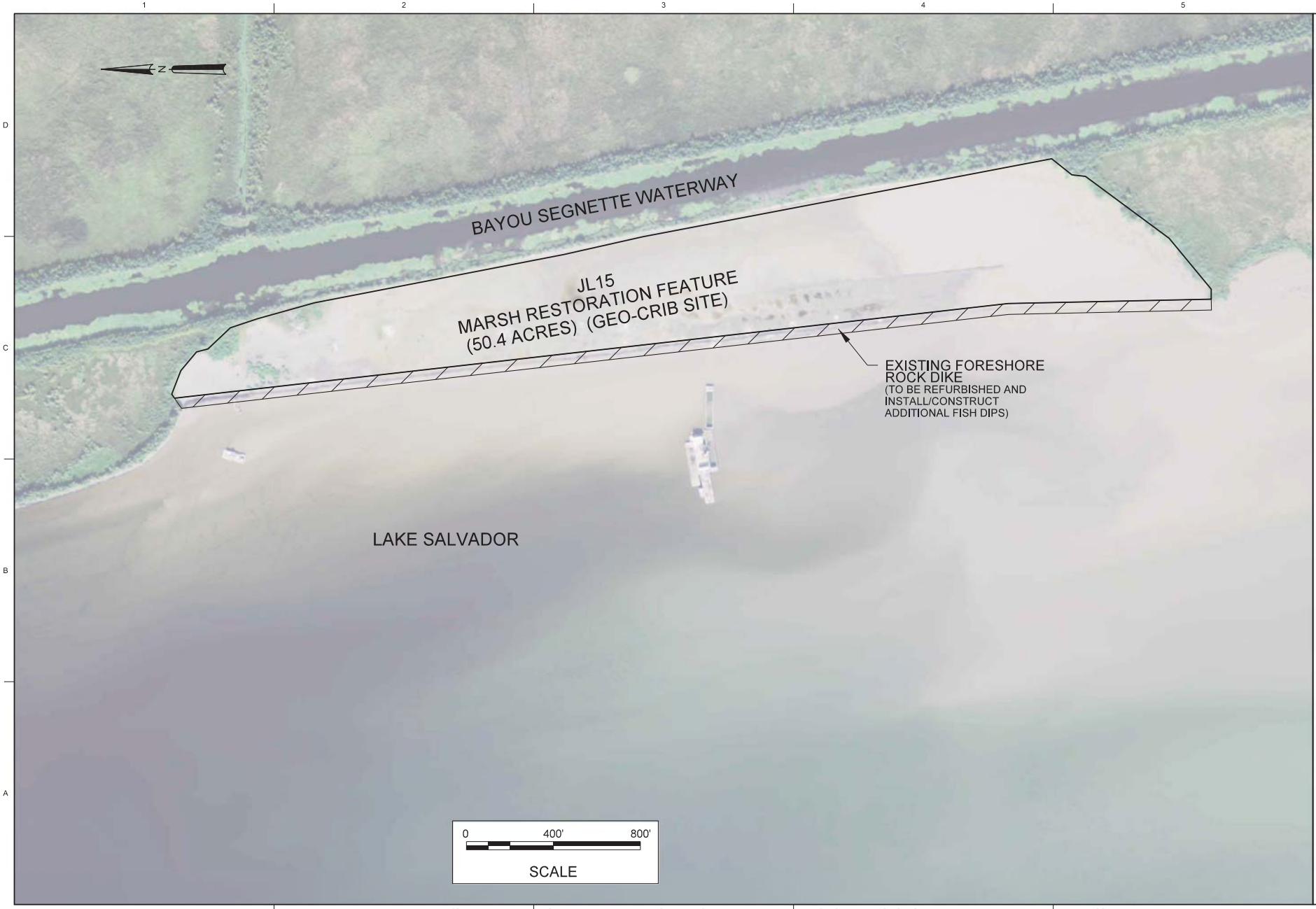
Salvador-Timken



Simoneaux Ponds



Jean Lafitte Marsh Restoration for non-Park/404(c) impacts at Yankee Pond



US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

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

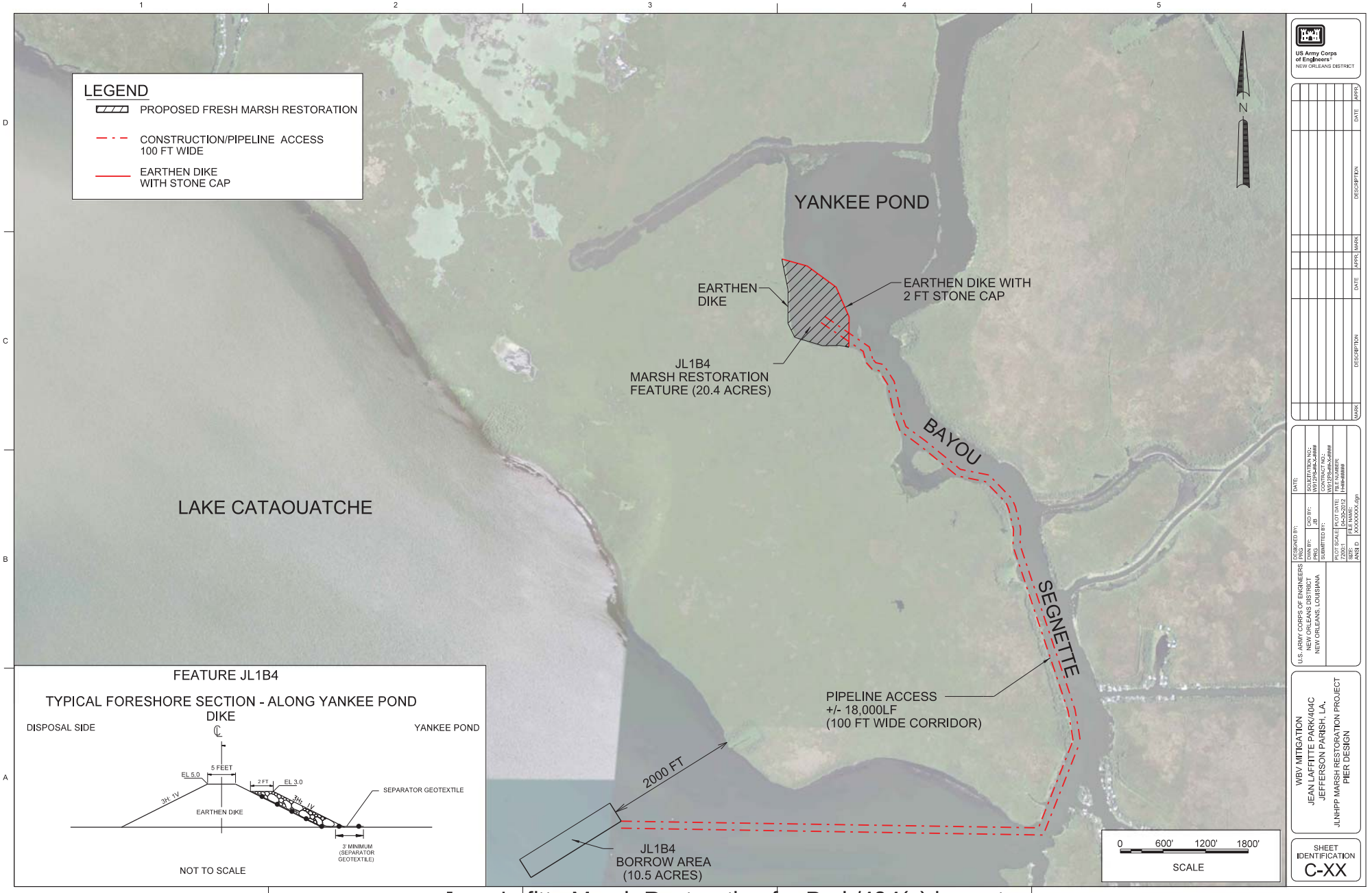
DESIGNED BY: PATRICK R. GREY
DWN BY: P.R.G.
CKD BY: JB
SUBMITTED BY: K. J. O'CAIN
PLOT SCALE: 24X01
PLOT DATE: 03-27-2012
SIZE: ANSI D
FILE NAME:
DATE:
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:

WBV MITIGATION
JEAN LAFFITTE
JEFFERSON PARISH, LA.

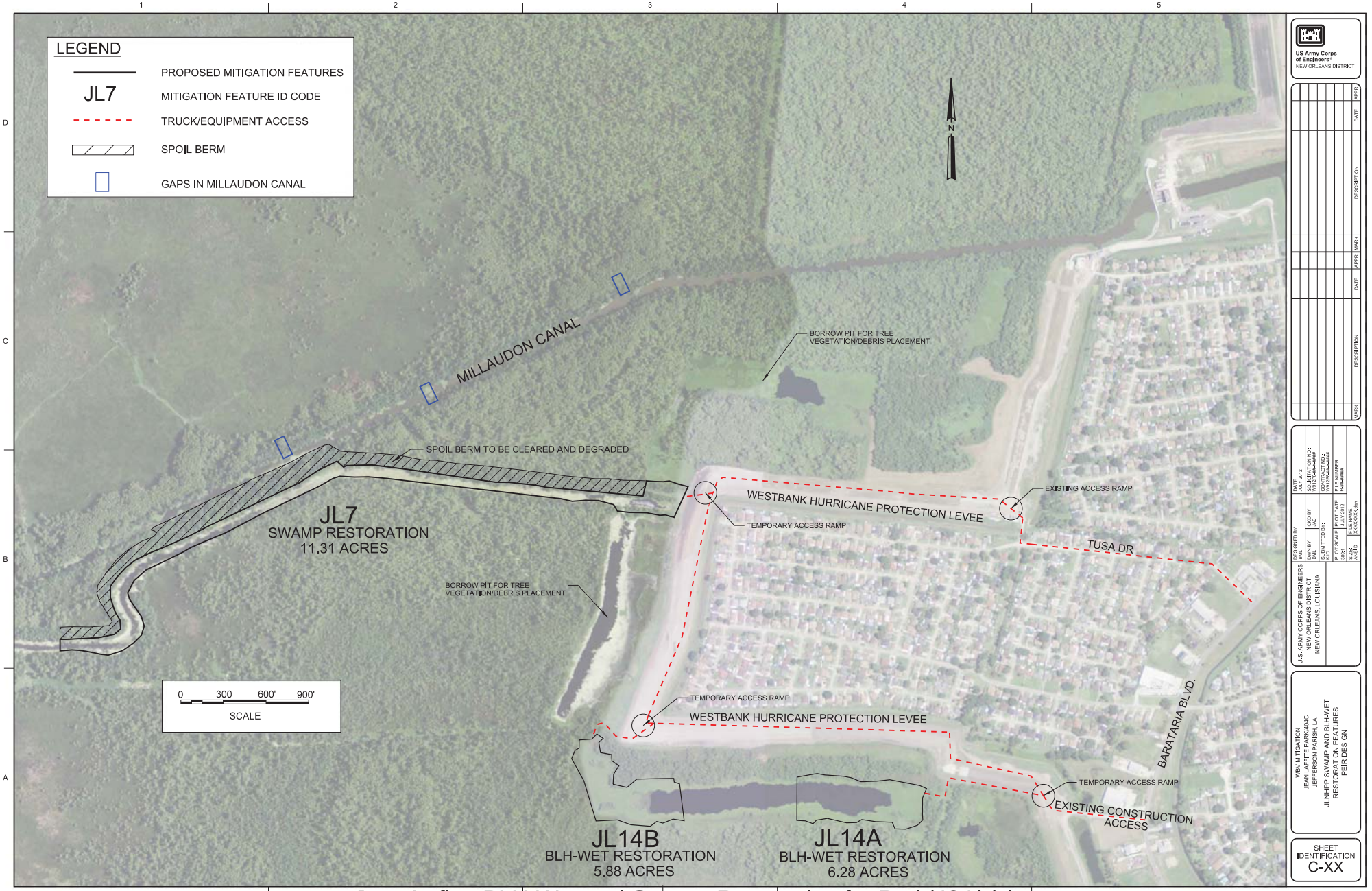
JEAN LAFITTE MARSH RESTORATION
PIER DESIGN

SHEET IDENTIFICATION
C-XX

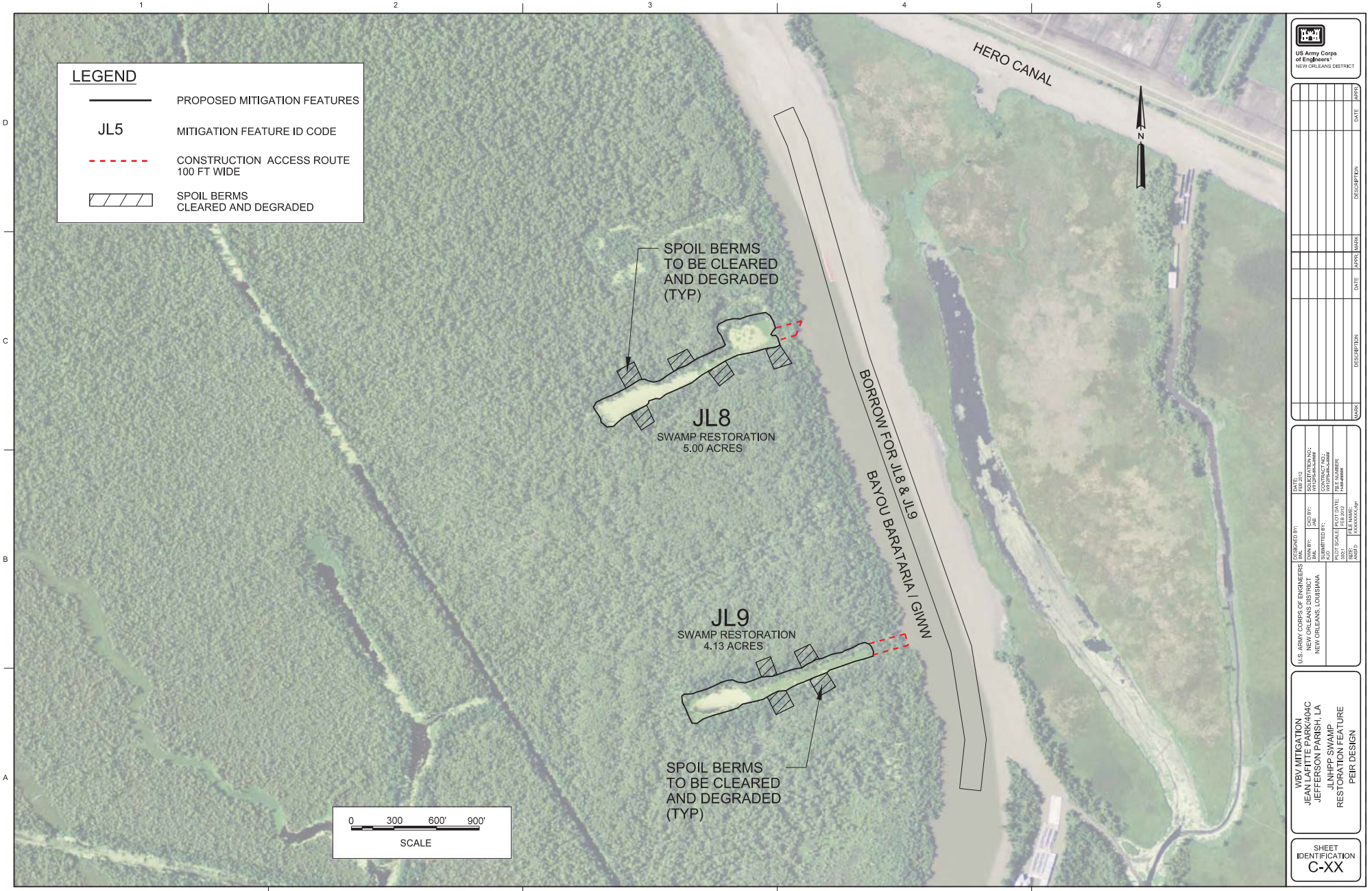
Jean Lafitte Marsh Restoration for non-Park/404(c) impacts at Geocrib



Jean Lafitte Marsh Restoration for Park/404(c) impacts



Jean Lafitte BLH-Wet and Swamp Restoration for Park/404(c) impacts



Jean Lafitte Swamp Restoration for Park/404(c) impacts

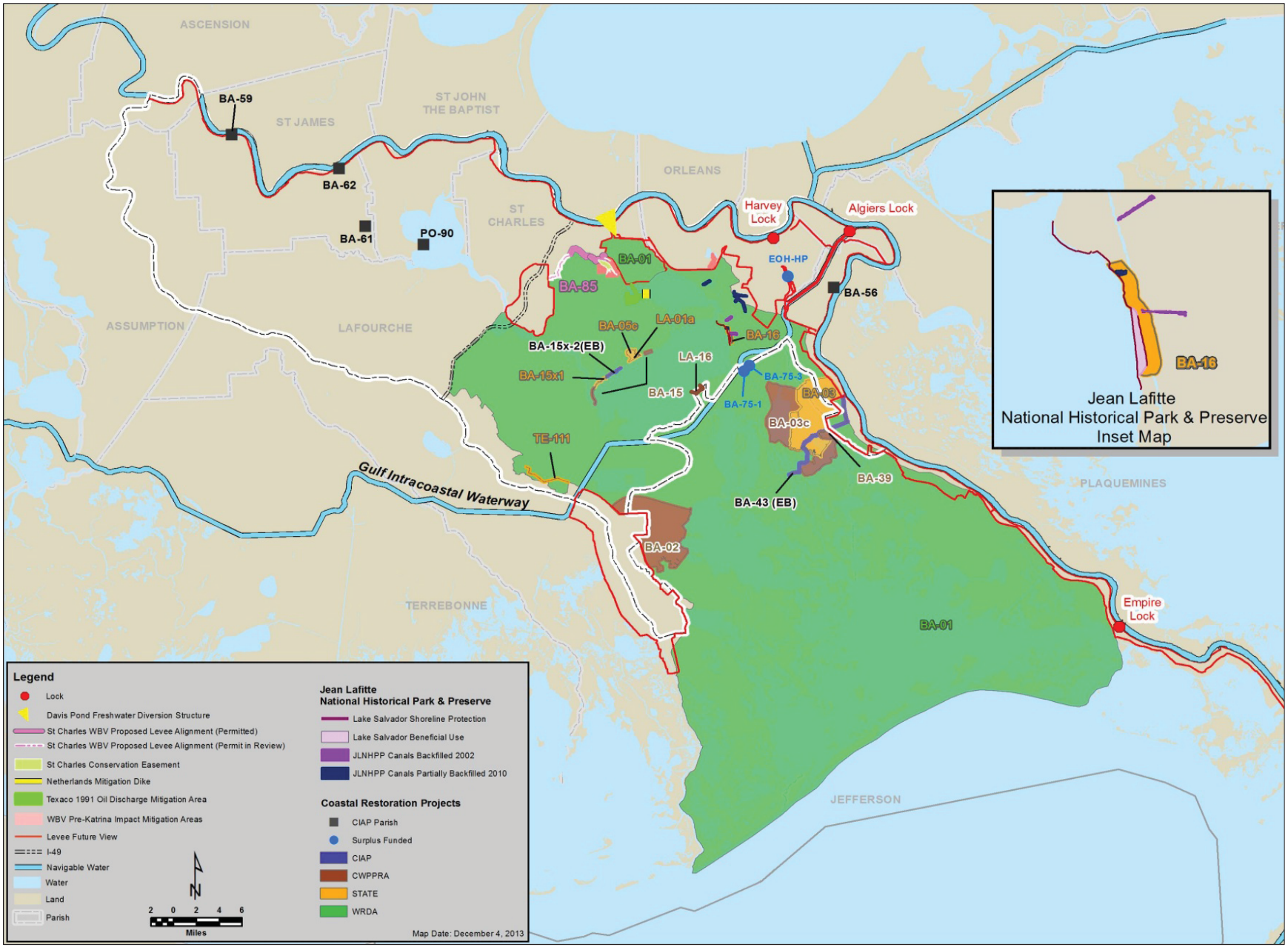


Figure A-7: Projects Considered in the Future Without Project (FWOP) Condition or No Action Alternative

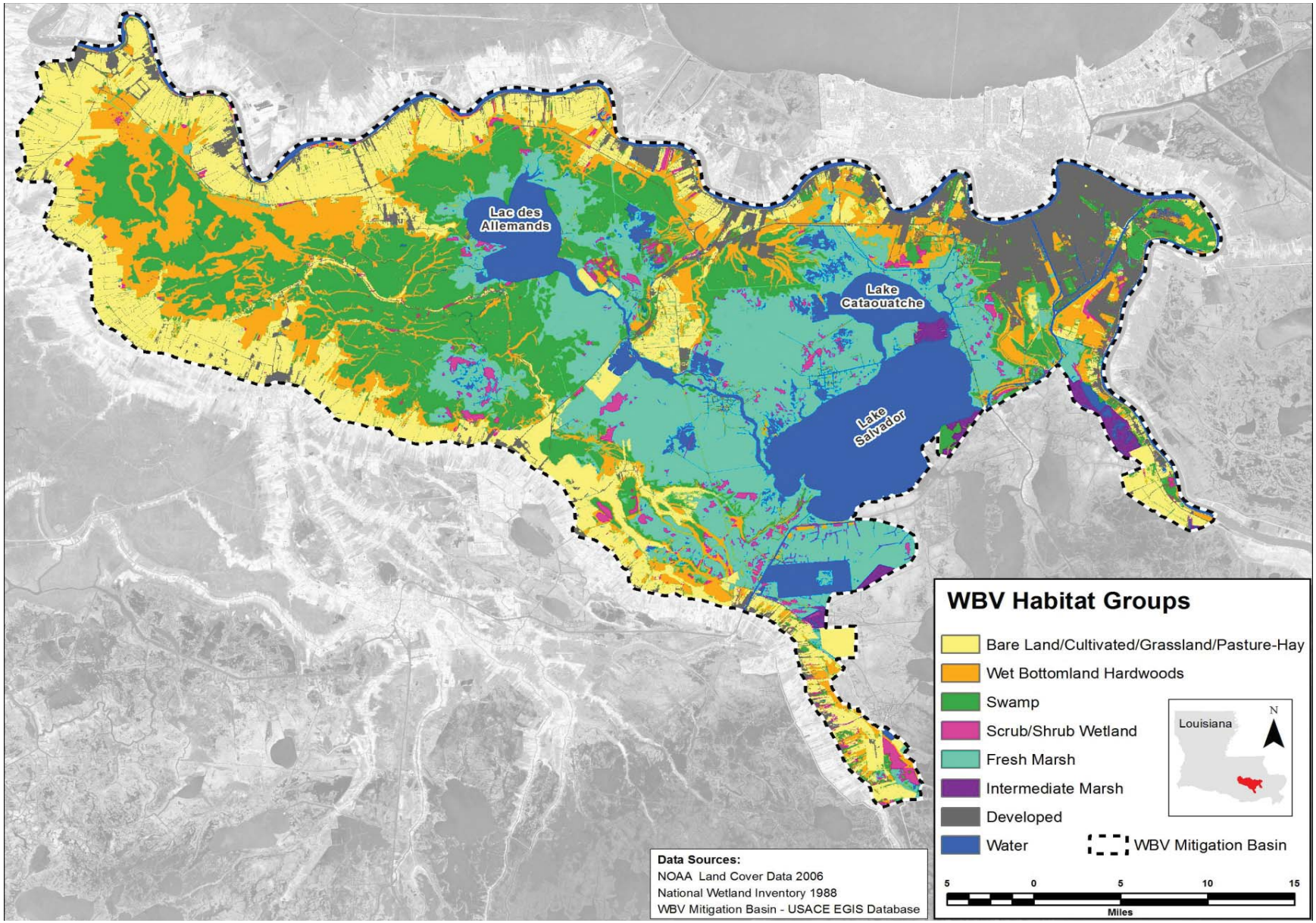


Figure A-8: WBV HSDRRS Mitigation Basin Habitats

Figure A-9: Hydrologic Units that Encompass Both a Project Footprint and an "Impaired" Waterbody

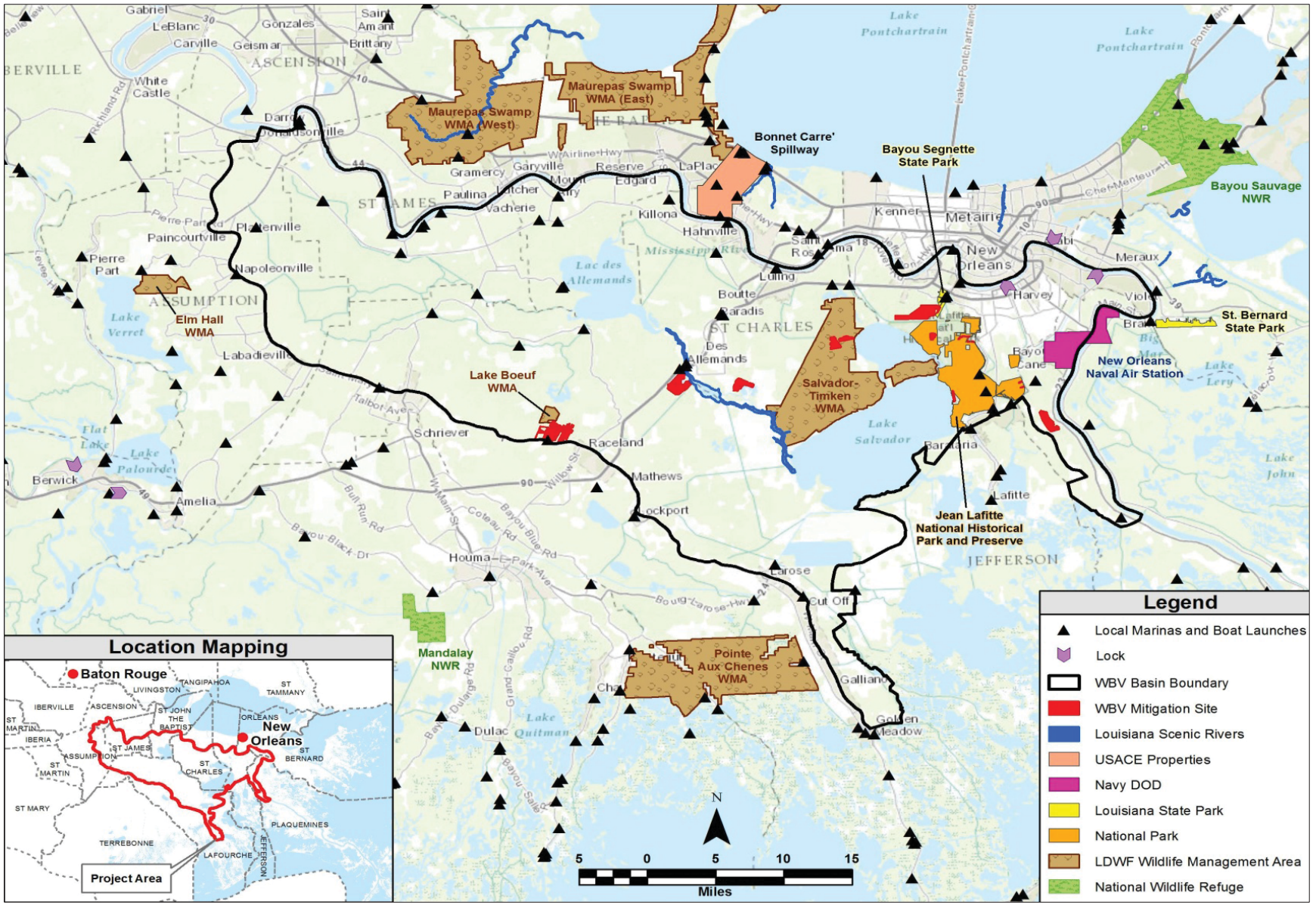


Figure A-10: Recreational Features in the WBV Mitigation Basin