



Orleans Levee District

OFFICE MEMO

February 13, 2008

TO: Commissioner Larry McKee

FROM: Stevan G. Spencer, P. E.
OLD Director of Hurricane and Flood Protection

RE: Operations Committee Report
O.L.D. Monthly Status of Activities

- The Corps is finalizing the 100 year elevations, but is continuing ahead on Phase 1 projects to address authorized grade elevations.
- Encroachment survey on east side of 17th Street Canal (north of Veterans) has been completed by Corp-- information being reviewed. ROE fence and tree removal has been requested by Corps. Corps setting up meeting with residents south of Veterans (fatted section) to discuss encroachments. ROE for survey to be submitted by Corps at February Board meeting.
- The Corps' hired Labor Forces (Memphis) continues raising the earthen levee on the south side of GIWW from Hw. 47 Bridge to IHNC to authorized grade (LPV-142). The are 60% complete, out of 18,600 feet.
- Here is a short status on the IHNC Hurricane Protection Project (GIWW Closure Structure).
 - Corps received proposals on Monday, January 7, 2008
 - Corps expects to award the design-build contract in March 2008
 - LADOTD has draft PCA in hand for review, must execute PCA before award
 - Interim measures (Advance Measures) are included in the contract
 - Construction expected to start in summer 2008
 - The Individual Environmental Report (IER) #11 was released two weeks ago. The report is out for 90 days of public review and can be found on the website, <http://www.nolaenvironmental.gov/>.
- Ongoing Corps Construction Projects
 - LPV-102 60% complete - Phase 1 - On Schedule - Merrick Construction
 - LPV-103 5% complete - Phase 1 - On Schedule - Merrick Construction
 - LPV-104 80% complete - Phase 1 - On Schedule - Buck Town Contractors
- Last of Task Force Guardian repair work (repairs to completed construction) scheduled for completion in April '08.
- Detailed project description of Corps projects ongoing and under design for 1/25/08 attached.

The following are activities completed by O.L.D.:

- 1) MRL inspections (for east bank only) is scheduled for Mach 6, 2008.
- 2) Hurricane Levee Inspection was held February 6, 7, and 8th, 2008.
- 3) Continued maintenance and inspection of levees.

SGS:dba

xc: Timothy P. Doody, SELFPA – East President
Louis Wittie, Commissioner
Robert Turner, SELFPA – East Regional Director

Levee District Monthly Status Report Format

Levee District Name

Orleans Levee District

LPV <DOTD Levee District Number><DOTD Parish Number>101 303+00

LPV 101

Description: 17th Street Canal to Topaz Street

This reach is approximately 3,500 ft long and currently consists of concrete floodwalls with short sections of earthen levees. There is a 345-foot long stretch of earthen levee at the western end of the project immediately adjacent to the 17th Street Canal. An existing earthen levee of about 770 feet in length is at the eastern end of the reach and extends parallel to Lakeshore Drive to the vicinity of the intersection with Topaz Street. The remainder of the reach between these end levee segments is about 2,400 feet in length and consists of concrete floodwalls. There are currently six vehicle access gates and one pedestrian access gate within the floodwall portion of this reach. Top of the existing protection varies slightly throughout the reach but, in general, is about elevation 12.5 feet.

Status:

1. Construction: (See attached drawing for location of construction activity.)

This project is currently in the design stage with the 60% design submittal scheduled for April 2008. The flood protection is being designed for the 1% design elevations. Structures will be built to the 2057 design elevation and levees will be built to the 2011 design elevation with overbuild to account for consolidation. Except for the segment adjacent to Pontchartrain Boulevard, the alignment of the hurricane protection system will essentially follow the alignment of the existing floodwalls and levees in this reach.

The existing floodwalls will be demolished and replaced with new concrete floodwalls with the top at elevation 16.0 feet NAVD88.2004.65. At the eastern and western ends of the reach, short floodwalls will be constructed above the existing levees to elevation of 16.0 feet NAVD88.2004.65. At the eastern extreme of the reach, the floodwall will transition into the full levee section of the adjacent Reach LPV 102. In the area of the transition, armoring for scour projection will be provided. Four of the six existing vehicle gates will be replaced with new gates at their current locations. The location of the vehicle access gate across Pontchartrain Boulevard (L-4) is to be relocated closer to Lake Marina Avenue and a new gate structure will be provided at the realigned location. One vehicle access gate (L-3) and the pedestrian access gate (L-1B) are to be eliminated and replaced with floodwall.

The plans and specifications are scheduled to be advertised for construction late in calendar year 2008 and the construction contract is scheduled for award in late January, 2009. Construction of the improvements is anticipated to be completed in February, 2011. The estimated construction cost of the LPV 101 project is \$38.7 Million.

2. Inspection Summary:

Issues:

Comments:

Orleans Levee District

LPV102

Description: Orleans Avenue Canal to Topaz Street.

This reach starts at the east side of Orleans Canal and proceeds easterly to Topaz Street. LPV102 includes approximately 6,350 feet of earthen levee, one miter gate closure (Topaz Street Gate), and an asphalt paved ramp crossings (Canal Boulevard).

Status:

1. Construction:

Phase 1

Construction contract is approximately 60% complete. Contractor is currently placing embankment material at the Topaz Gate. Contractor has completed placing embankment between Canal Boulevard and Topaz Street and is continuing to install embankment from Canal Blvd to Orleans Canal. Contractor has completed concrete repair of the street, curbing, and sidewalk at Topaz Street. The levees are being built to the 1% design elevation which is the 2011 design elevation with overbuild to account for consolidation. Average levee height once construction is completed will be EL. 19.0 (NAVD88 2004.65) with a 1V:3.5H: flood side slope and a 1V:3H protected side slope. A 20-foot wide stability berm will be constructed throughout the length of the project.

Phase 1A

No Phase 1A contract will be prepared for LPV102. However, design for the Canal Boulevard road crossing will be included in the LPV103.01A contract. Current plans for Canal Boulevard Ramp include raising the crown of levee to El. 19.0 (NAVD88 2004.65). Pavement base and section will be placed above this level.

Phase 2

No phase 2 contracts will be required for LPV102 as 100-year level protection was provided during Phase 1.

<u>Project:</u>	Estimated Costs	Contract Award
LPV 102.01	\$1.1M	August 2007
LPV 102.01A	(SEE LPV103.01A)	

2. Inspection Summary: Grass growing, minor erosion on side slopes.

Issues:

Delays in executing the PCA, receiving or acquiring additional rights-of-way could delay award of the construction contracts for Phase 1A.

Comments:

No comments on this reach.

Orleans Levee District

LPV103

Description: London Ave Canal to Orleans Avenue Canal.

This reach starts at the east side of London Ave Canal and proceeds to the east side of Orleans Canal. LPV103 includes approximately 8,350 feet of earthen levee, one miter gate closure (Marconi Street Gate), and three (3) asphalt paved ramp crossings (Lakeshore Drive at London Ave Canal, Lake Terrace Drive and Lakeshore Drive at Rail Street).

Status:

1. Construction:

Phase 1

Contract was awarded on December 3, 2007. Preconstruction conference was held on December 19, 2007. The Contract has begun clearing and grubbing trees just west of the London Ave Canal. Average levee height once construction is completed will be EL. 19.5 (NAVD88 2004.65) with a 1V:3H: flood side slope and 1V:3H protected side slope, except for in Bayou St. John, where the levee height upon completion of construction will be 16.5. Scour protection and additional fill to reduce stick-up on the I-walls along Bayou St. John may also be included in this contract. Other work includes utility relocations, an inspection trench, elimination of the Lake Terrace Drive ramp (to be replaced by a turnaround on the flood side), and removal of Park Shelter No. 3 and nearby concrete stairs crossing the levee.

Phase 1A

Phase 1A work will include replacing existing I-walls along both banks of Bayou St. John with pile founded T-walls; improvements to the Bayou St. John sector gate structure to raise the level of protection to El. 16.0; conversion of existing I-walls to pile founded L-walls at Rail Street and Marconi Drive; replacement of scour protection for the I-walls along Orleans Avenue Canal lakeward of the pumping station; and asphalt paved road crossings at Lakeshore Drive near London Ave Canal, Lakeshore Drive near Rail Street, and Canal Boulevard. Current Plans for the ramps include raising the crown of the levee to El. 19.5 (NAVD88 2004.65) for the Lakeshore Drive Ramps and El. 19.0 (NAVD88 2004.65) for the Canal Boulevard Ramp. Pavement base and section will be placed above this level.

Phase 2

No phase 2 contracts will be required for LPV103 as 100-year level protection is provided during Phases 1 and 1A.

<u>Project:</u>	Estimated Costs	Contract Award
LPV 103.01	\$5.2M	December 2007
LPV 103.01A	TBD	September 2008

2. Inspection Summary: Work proceeding.

Issues:

Meetings and subsequent conversations determined that construction of T-walls along Bayou St. John would not be added to the Phase 1 contract by modification.

Comments

No comments on this reach.

Orleans Levee District

LPV104

Description: London Avenue Canal to Inner Harbor Navigation Canal (IHNC)

This reach starts just south of Gate W-39 on the east side of the IHNC and proceeds easterly to the newly constructed sheetpile floodwall on the east side of the London Avenue Canal. LPV104 has approximately 13,820 feet of protection, including 9,900 feet of levee, 3,360 feet of floodwall, four roadway ramps and seven gated closures. The flood protection is being designed for the 1% design elevations. Structures will be built to the 2057 design elevation and levees will be built to the 2011 design elevation with overbuild to account for consolidation.

Status:

1. Construction:

Phase 1

Construction contract is approximately 80% complete. Buck Town Contractors has started placing material on levee behind Naval Reserve Center. Average levee height once construction is completed will range from EL. 17.5 to 20.5 (NAVD88 2004.65) with a 3H:1V floodside slope.

Phase 1A

60% designs are scheduled to be completed by early March 2008. Corps has requested determination of actual levee right-of-way owned by the Orleans Levee District in certain areas needed for construction. Anticipate contract award to be July 2008 and construction complete in July 2009. Contract will include ramp raises at the two Lakeshore Drive ramps near the UNO research facility, Franklin Avenue, and Leroy Johnson. The floodwalls and gates at Pontchartrain Beach and American Standard will be modified to meet the current design criteria. Gate L-10 will be removed.

Phase 2

60% designs are scheduled to be completed by early March 2008. Corps has requested determination of actual levee right-of-way owned by the Orleans Levee District in certain areas needed for construction. Anticipate contract award to be January 2009 and construction complete in July 2010. Contract will include replacing gates L-11, W-39 and W-40 and constructing a new T-wall at the Seabrook boat ramp area.

<u>Project:</u>	Estimated Costs	Contract Award
LPV 104.01	\$1.3M	August 2007
LPV 104.01A	TBD	July 2008
LPV 104.02	TBD	January 2009

2. Inspection Summary: Grass growing, minor erosion on side slopes.

Issues:

Delays in executing the PCA, receiving or acquiring additional rights-of-way could delay award of the construction contracts for Phase 1A and Phase 2

Comments:

No comments on this reach.

Levee District Monthly Status Report

Orleans Levee District

LPV 105

Description: Lakefront Airport

This reach is approximately 9,134 ft long. The work in this Reach will generally involve replacing the existing I-wall with a new T-Wall. There may be a short section of embankment that will be raised. Existing elevations vary from approx. El. 12 at the Airport to El. 14.3 at the St. Charles Pump station.

Status:

1% design heights finalized @ 15.5 ft. Design contract for geotechnical report and P&S expected to be awarded in February 2008 by USACE. Project is 100% Federal Funding.

Issues:

Potential design/construction impacts: Large number of utility relocations; vertical flight clearance at airport; railroad right of way.

Comments:

LPV 106

Description: Lakefront Airport to Paris Road

This reach is approximately 21,648 ft long. The work in this Reach involves raising the existing embankment section and making improvements necessary to meet current design criteria. Consideration is being given to restoring the foreshore protection in this Reach to the original elevations. Existing elevations vary from El. 12.2 to El 13.

Status:

1% design heights finalized @ 13 ft / 15.5 ft. Design contract for geotechnical report and P&S expected to be awarded in February 2008 by USACE.

Issues:

Potential design/construction impacts: Large number of utility relocations.

Comments:

LPV 107

Description: Lincoln Beach

This reach is approximately 1,420 ft long. The work in this Reach, along the peninsula which is known as Lincoln Beach, will involve replacing the existing gated T-Wall structure and gate to the new elevations. Existing elevations are at approx. El. 12.5.

Status:

1% design heights finalized @ 15.5 ft. Design contract for geotechnical report and P&S expected to be awarded in February 2008 by USACE.

Issues:

Comments:

LPV 108

Description: Paris Road to South Point

This reach is approximately 32,842 ft long. The work in this Reach involves raising the existing embankment section and making improvements necessary to meet current design criteria. Consideration is being given to restoring the foreshore protection in this Reach to the original elevations. Existing elevations are approx. between El. 17 and 18.

Status:

1% design heights finalized @ 14.4 ft / 18.5 ft. Completion of geotechnical report and P&S scheduled for May 08.

Issues:

Comments:

LPV 109

Description: South Point to the CSX Railroad Gate

This reach is approximately 39,600 ft long. The work in this Reach involves raising the existing embankment section and making improvements necessary to meet current design criteria. Also involved are gated closures across the roadways at US 90 and US 11 and raising I-10. Existing elevations vary from approx. El. 14.0 at the north end to El. 17 at the south end.

Status:

1% Design heights finalized @ 16.5 ft / 25 ft. Phase 1 raise completion of geotechnical report and P&S scheduled for May 08.

Effective date 1/25/08

Issues:

Work for closures across US 90 and US 11 and the raising of I-10 will require coordination and ROW acquisition.

Comments:

LPV 110

Description: CSX Railroad Gate Closure

This reach is approximately 214 ft long. The work in this short Reach, across the CSX Railroad tracks, involves replacement of or improvements to the existing I-Walls and T-walls and closure gate. Existing elevations are at approx. El. 20.5.

Status:

1% Design heights finalized @ 30 ft. Design contract for geotechnical report and P&S expected to be awarded in March 2008 by USACE.

Issues:

Coordination with the Railroad will need to be accomplished and access permission will be needed to the construction area through existing roads.

Comments:

LPV 111

Description: CSX Railroad to Michoud Canal

This reach is approximately 27,984 ft long. The work in this Reach involves raising the existing embankment section and making improvements necessary to meet current design criteria. The work in this Reach also includes raising the T-Wall at Pump Station No. 15. Existing elevations vary from El. 19 to El. 19.5.

Status:

1% Design heights finalized @ 25 ft / 31.5 ft. Design contract for geotechnical report and P&S expected to be awarded in March 2008 by USACE.

Issues:

Comments:

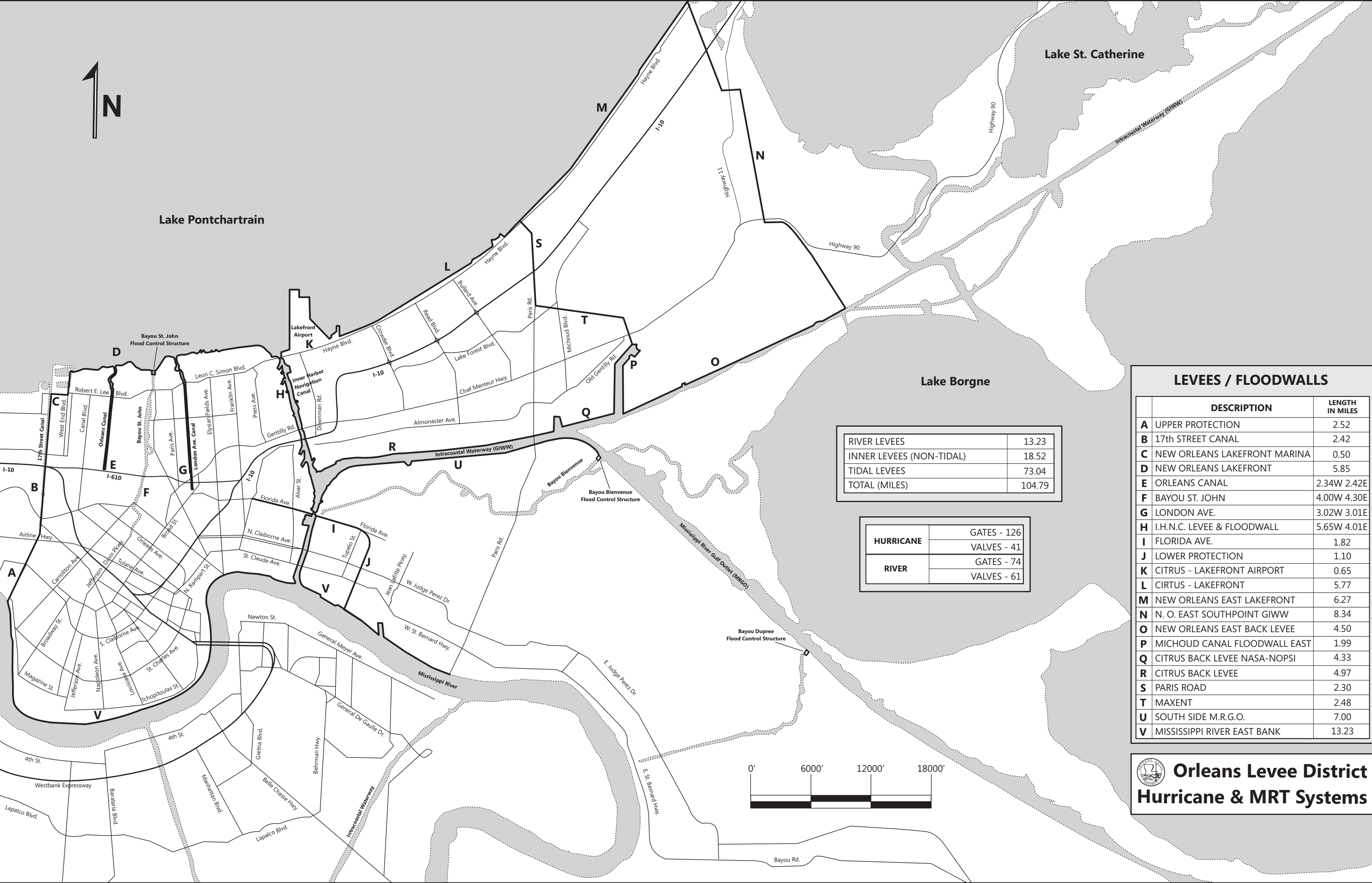
Effective date 1/25/08



Lake Pontchartrain

Lake St. Catherine

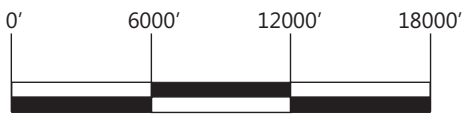
Lake Borgne



RIVER LEVELS	13.23
INNER LEVELS (NON-TIDAL)	18.52
TIDAL LEVELS	73.04
TOTAL (MILES)	104.79

HURRICANE	GATES - 126
	VALVES - 41
RIVER	GATES - 74
	VALVES - 61

LEVEES / FLOODWALLS		
	DESCRIPTION	LENGTH IN MILES
A	UPPER PROTECTION	2.52
B	17th STREET CANAL	2.42
C	NEW ORLEANS LAKEFRONT MARINA	0.50
D	NEW ORLEANS LAKEFRONT	5.85
E	ORLEANS CANAL	2.34W 2.42E
F	BAYOU ST. JOHN	4.00W 4.30E
G	LONDON AVE.	3.02W 3.01E
H	I.H.N.C. LEVEE & FLOODWALL	5.65W 4.01E
I	FLORIDA AVE.	1.82
J	LOWER PROTECTION	1.10
K	CITRUS - LAKEFRONT AIRPORT	0.65
L	CIRTUS - LAKEFRONT	5.77
M	NEW ORLEANS EAST LAKEFRONT	6.27
N	N. O. EAST SOUTHPOINT GIWW	8.34
O	NEW ORLEANS EAST BACK LEVEE	4.50
P	MICHOUDE CANAL FLOODWALL EAST	1.99
Q	CITRUS BACK LEVEE NASA-NOPSI	4.33
R	CITRUS BACK LEVEE	4.97
S	PARIS ROAD	2.30
T	MAXENT	2.48
U	SOUTH SIDE M.R.G.O.	7.00
V	MISSISSIPPI RIVER EAST BANK	13.23



 **Orleans Levee District**
Hurricane & MRT Systems

