

DESIGNED BY J. BROWN, P.E.	DRAWN BY I. NGUYEN	U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI
CHECKED BY A. COX	APPROVED BY I. NGUYEN	
DESIGNED BY R. DAVINROY, P.E.	DATE APRIL 2011	UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011
FILE NAME BOSTON BAR HSR MODEL.MXD		

LOCATION AND
VICINITY MAP

PLATE
NUMBER
1

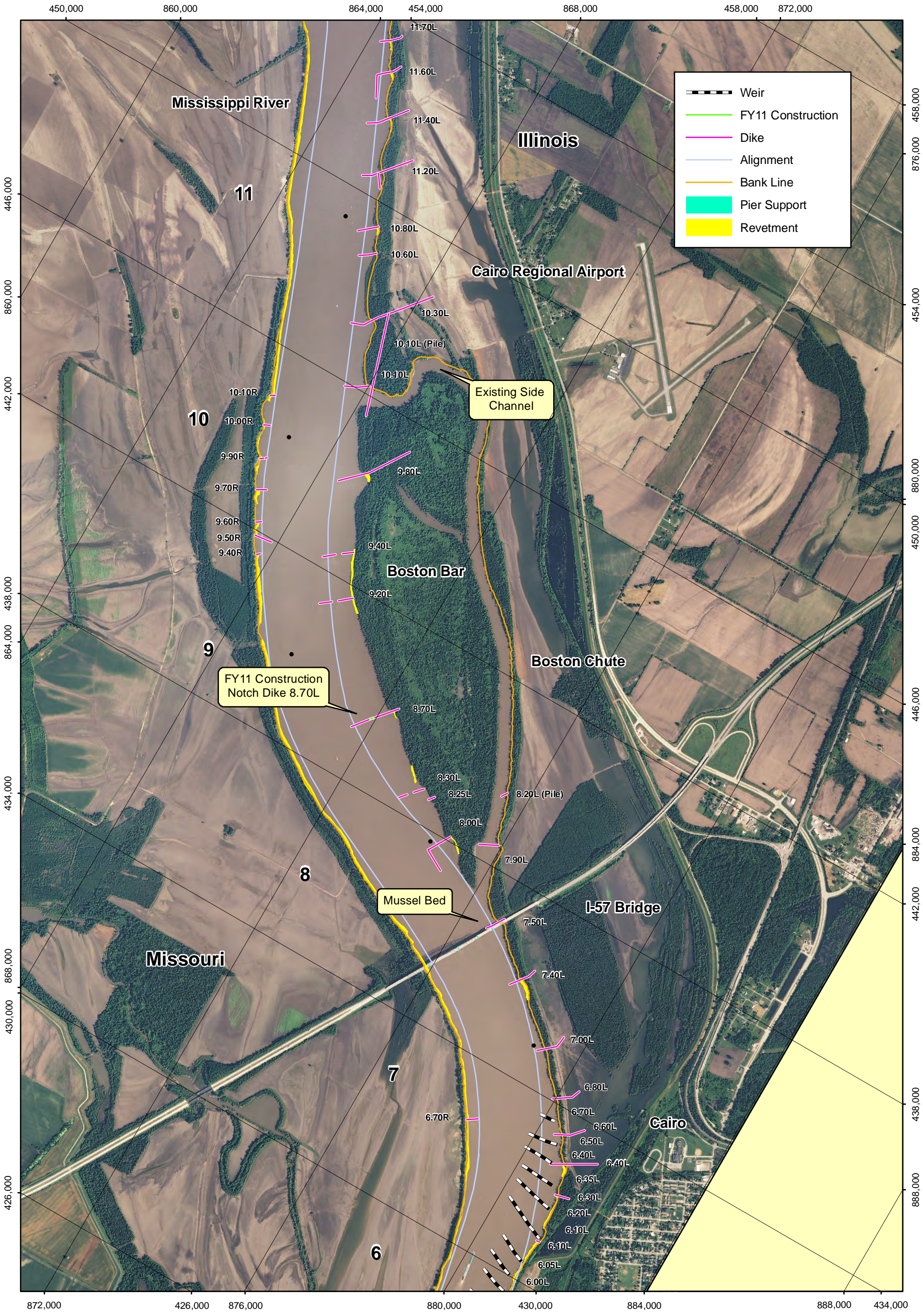
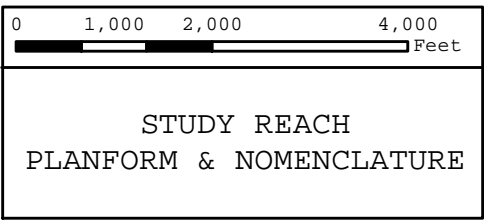


PLATE
NUMBER
2



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Figure 1: Boston Bar at RM 8.0. (Upstream View)

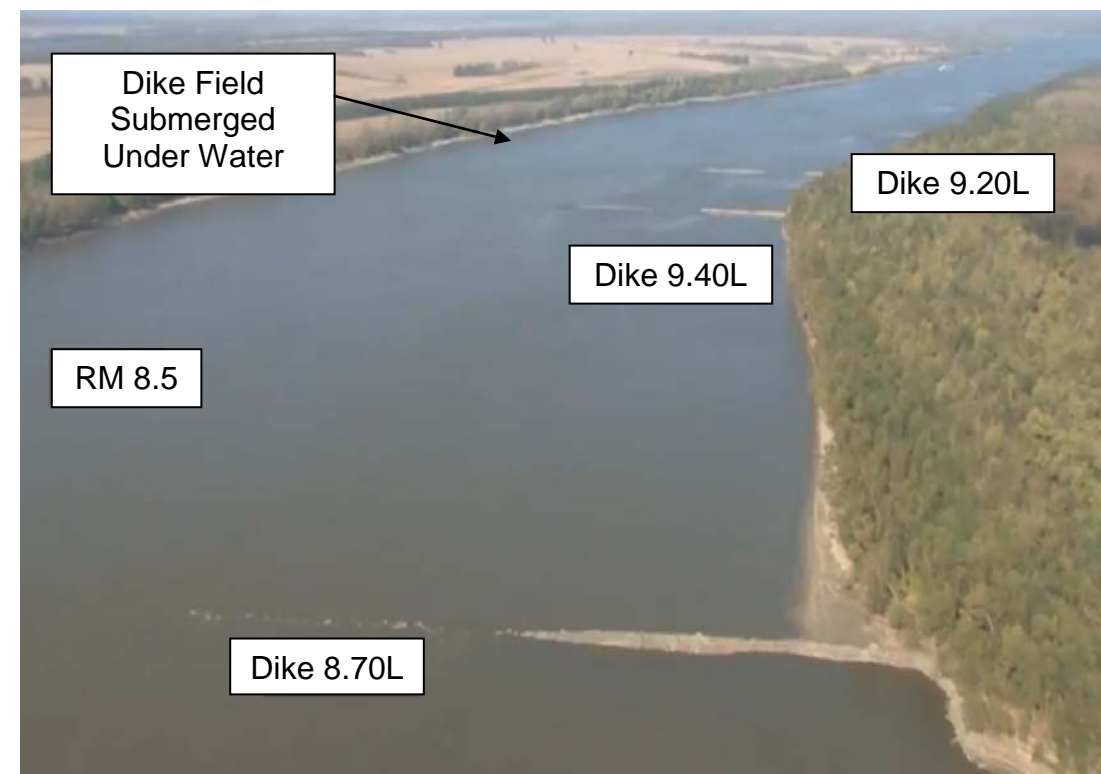


Figure 2: Boston Bar at RM 8.5. (Upstream View)



Figure 3: Boston Chute Entrance (Upstream View)



Figure 4: Inside Boston Chute Inflow Channel. (Downstream View)

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FIELD PHOTOGRAPH
 NOVEMBER 2010

PLATE
 NUMBER
 3

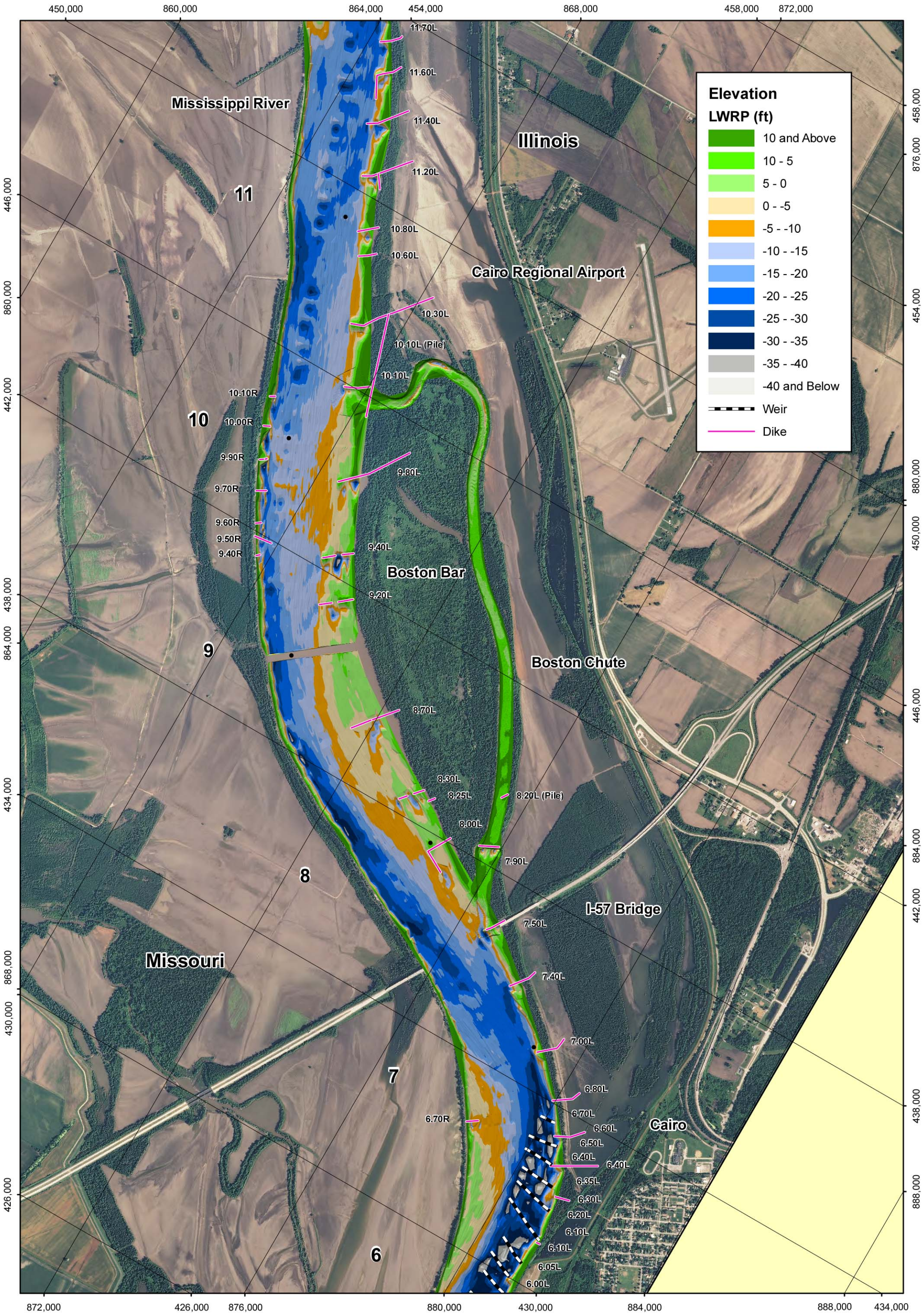


PLATE
NUMBER
4

0 1,000 2,000 4,000
Feet

2010 & 2011 COMBINED
HYDROGRAPHIC SURVEY

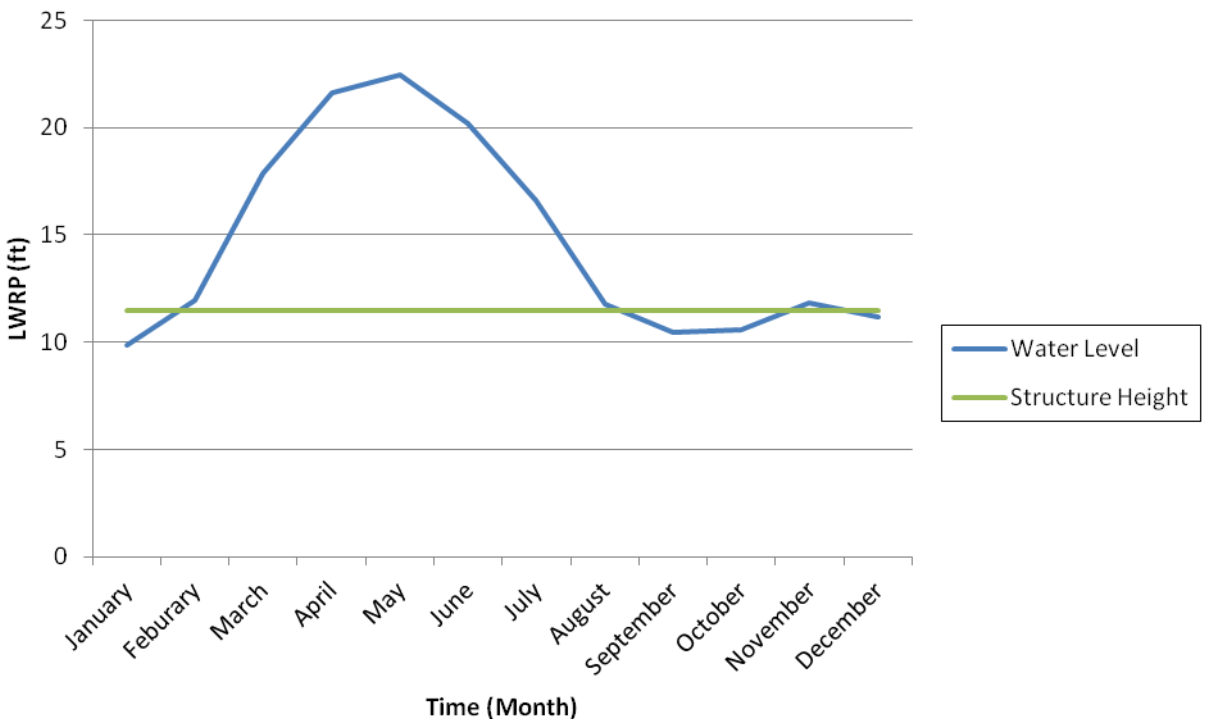
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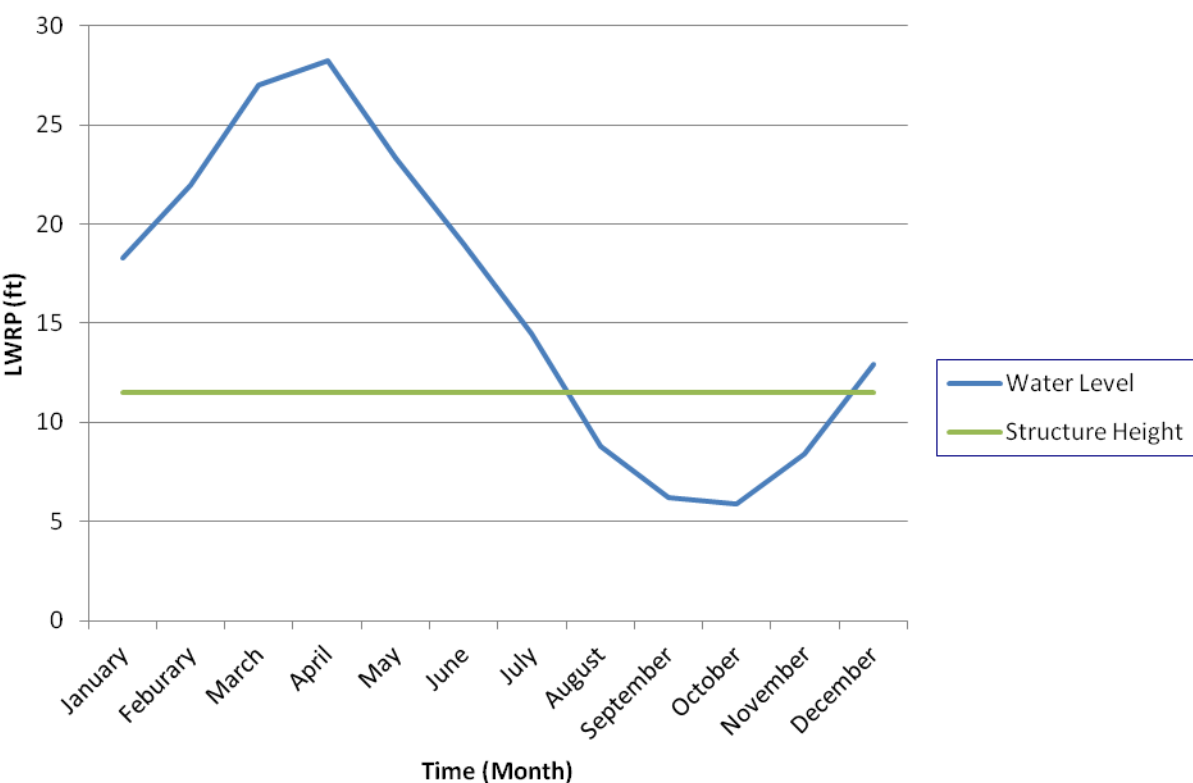
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BOSTON BAR HYDROGRAPH

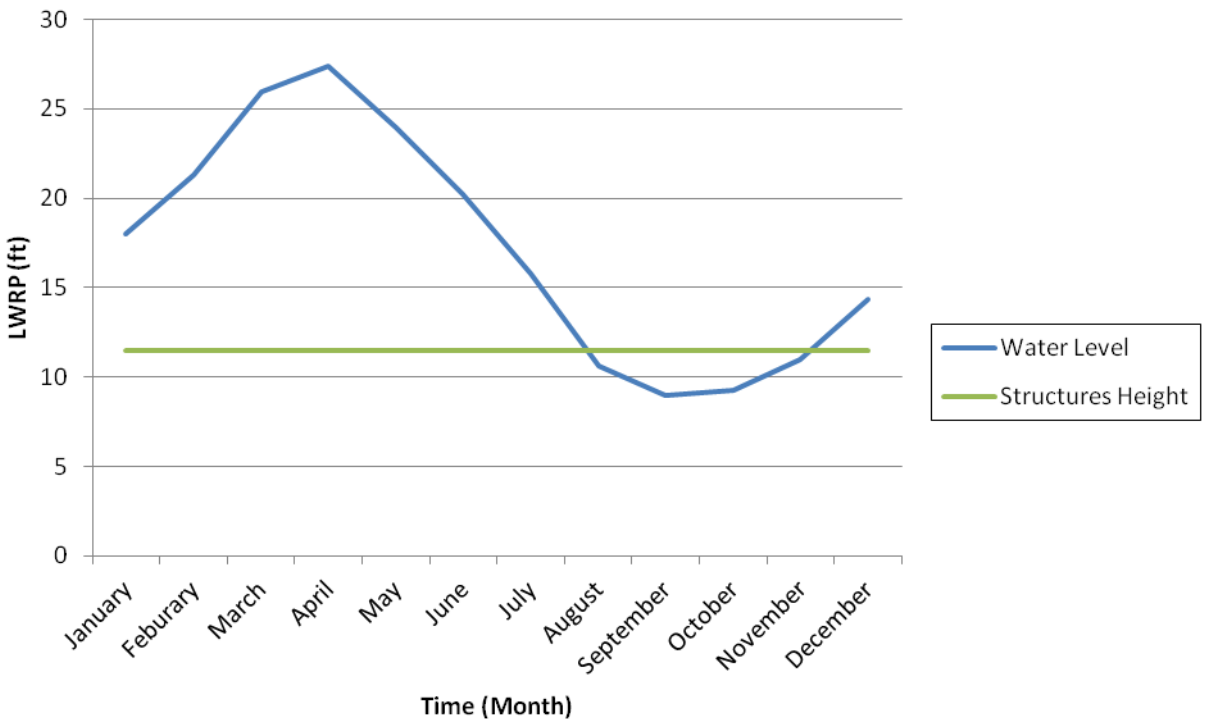
Average Annual Boston Bar Stage (Cape Girardeau Gage)



Average Annual Boston Bar Stage (Cairo Gage)



Average Annual Boston Bar Stage (Birds Point Gage)



Average Annual Boston Bar Stage (Thompson Gage)

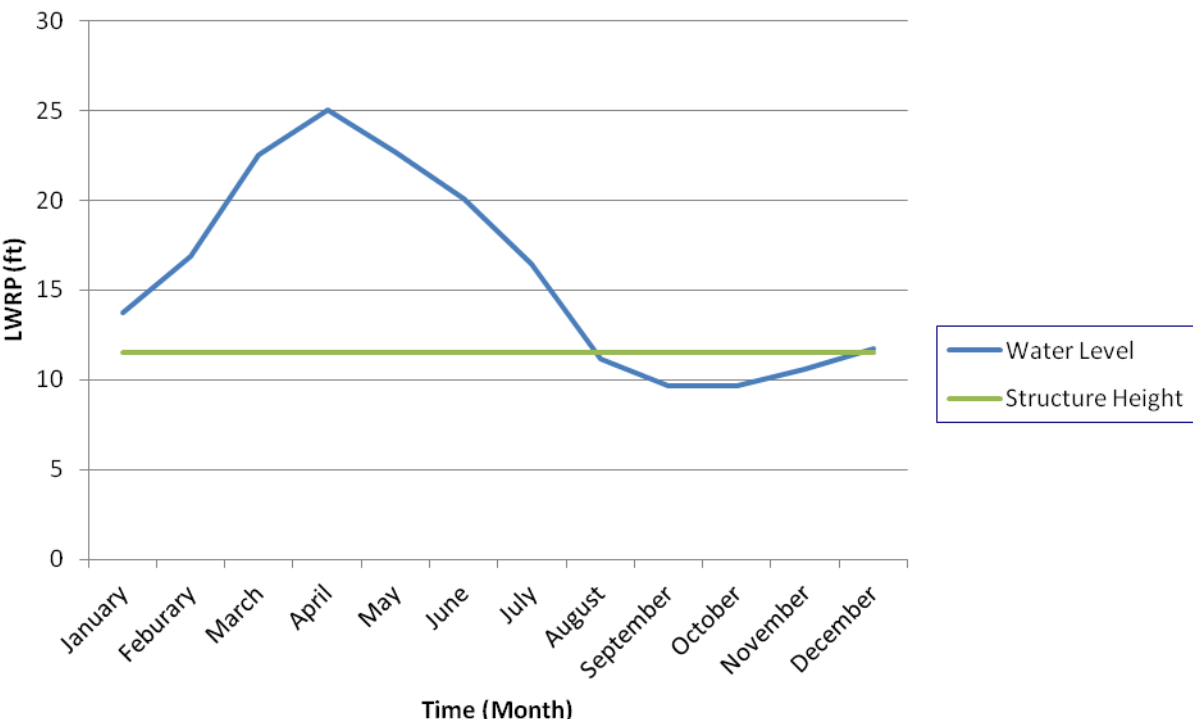




Figure 1: Boston Chute (Dike 10.30L and 10.10L)



Figure 2: Boston Chute Entrance (Dike 10.10L and Pile Dike 10.30L)



Figure 3: Boston Chute (Pile Dike 8.20L)



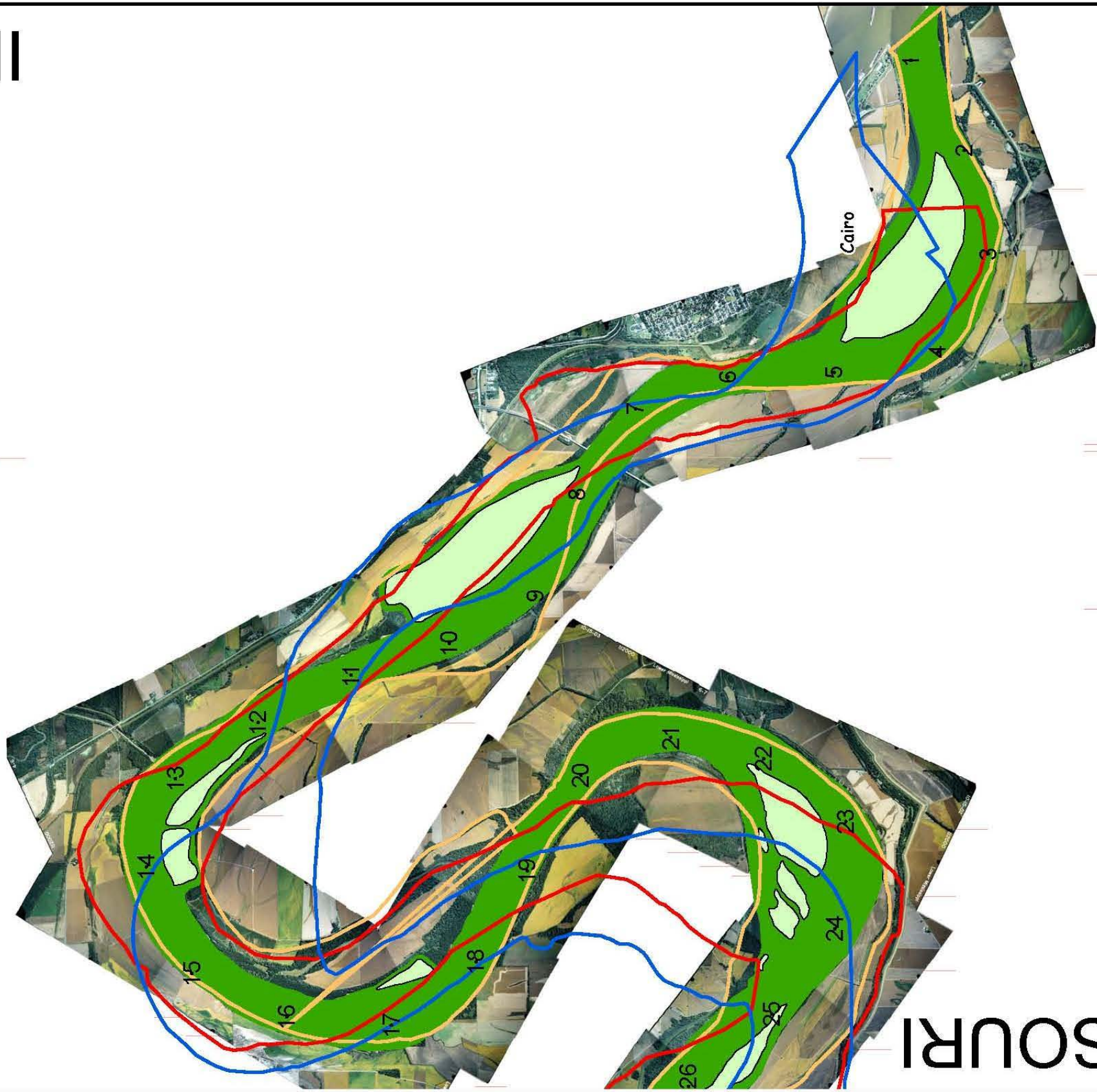
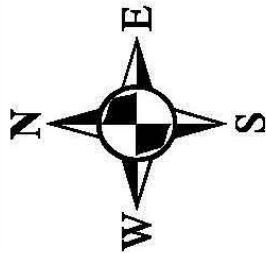
Figure 4: Boston Chute Closure Structure (Dike 7.90L)

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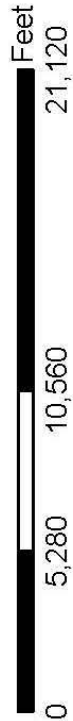
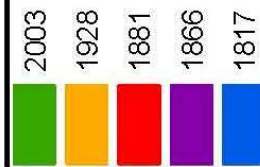
U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI
UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011

FIELD PHOTOGRAPH SEPTEMBER 2006
PLATE NUMBER 6

MISSION



MISSOURI



SOURCE: Aerial Photographs



U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

GEOMORPHOLOGY OF THE MIDDLE MISSISSIPPI
RIVER FROM ST. LOUIS, MO TO CAIRO, IL

2003 Platform

RIVER MILES 26-0

66

PLATE
NUMBER
7

BOSTON BAR
GEOMORPHOLOGY

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY I. NGUYEN	DESIGNED BY J. BROWN, P.E.
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	DESIGNED BY APRIL 2011	DESIGNED BY R. DAVINROY, P.E.
	FILE NAME BOSTON BAR HSR MODEL.MXD	





872,000 426,000 876,000 880,000 430,000 884,000 888,000 434,000

PLATE
NUMBER
8

01,0002,0004,000

Feet

BOSTON BAR
1928 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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St. Louis District



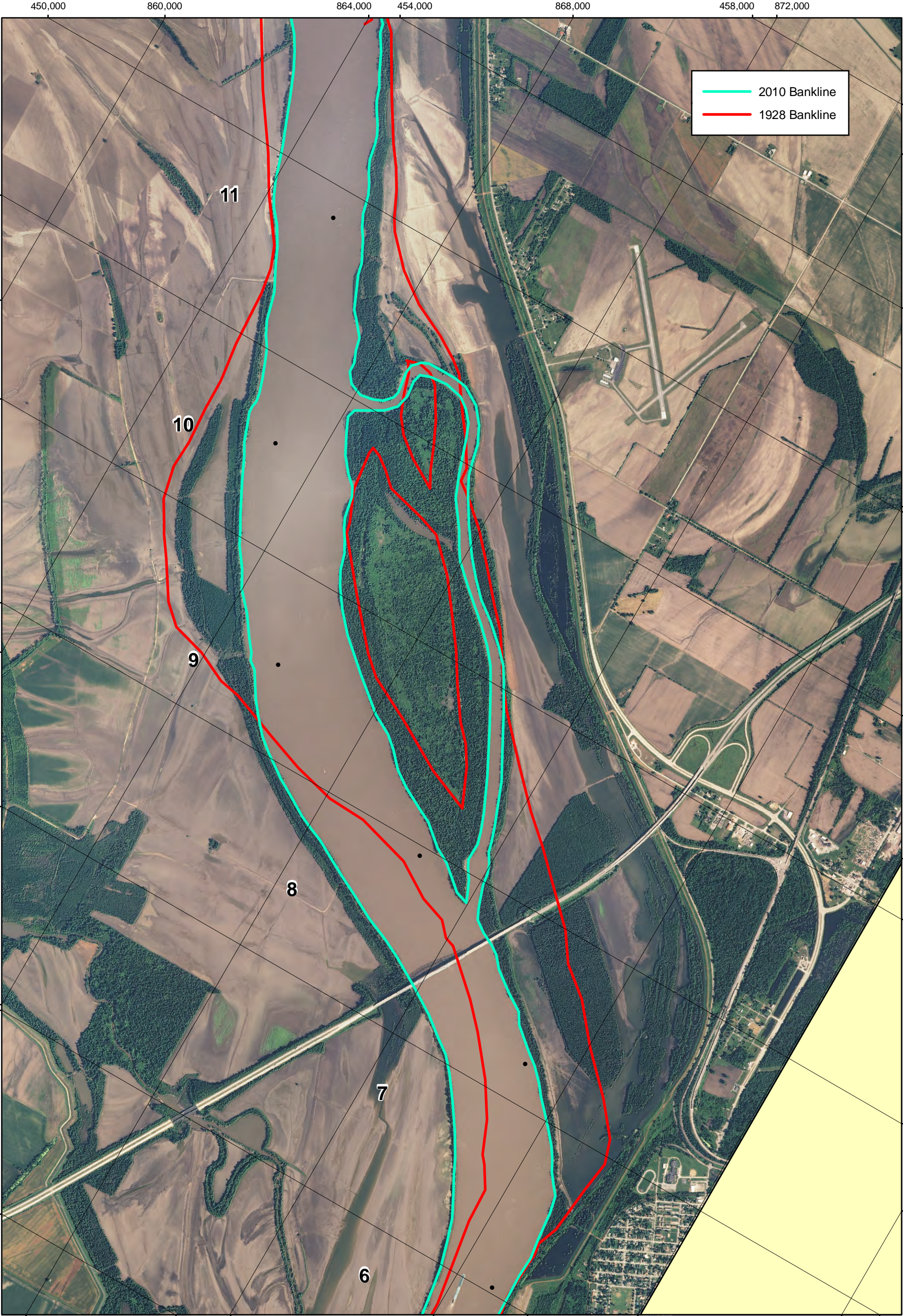
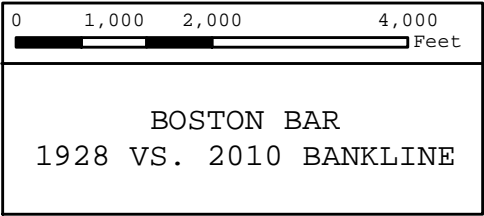


PLATE
NUMBER
9



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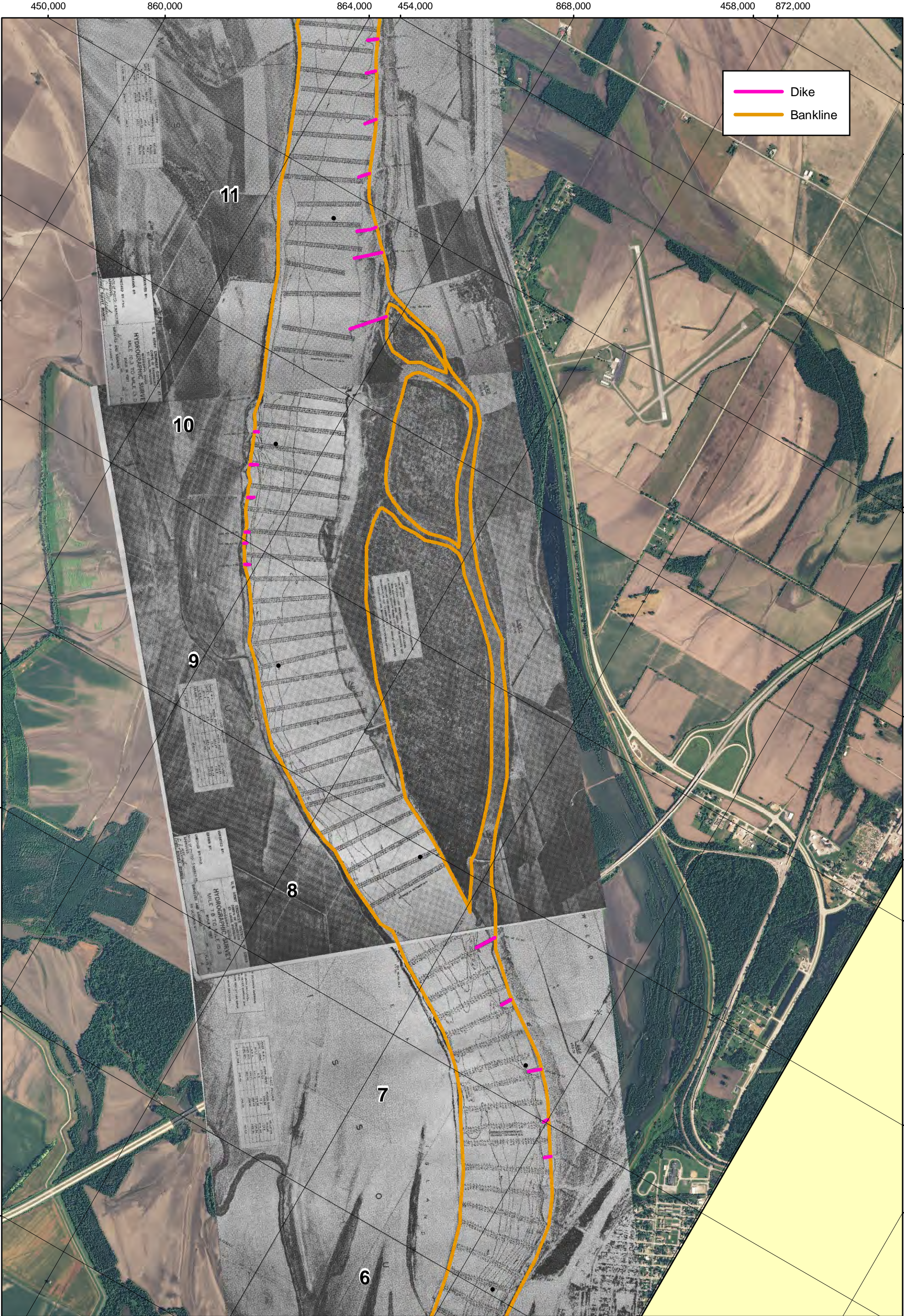


PLATE
NUMBER
10

01,0002,0004,000

Feet

BOSTON BAR

1968 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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ENGINEERING CENTER

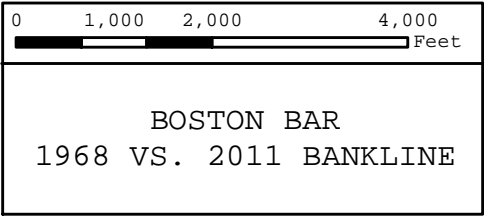
US Army Corps
of Engineers
St. Louis District

WEST

N
W
E
S



PLATE
NUMBER
11



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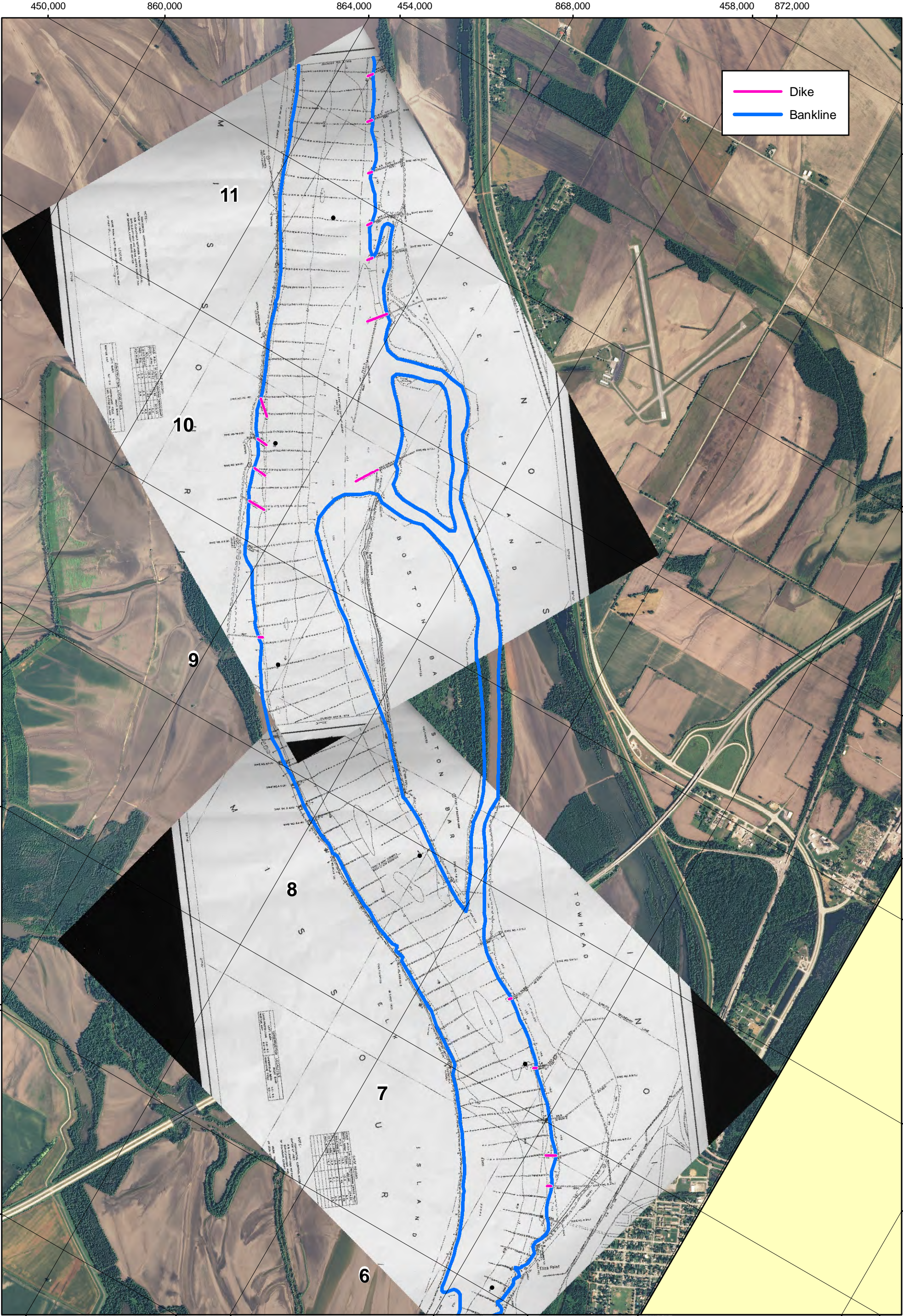
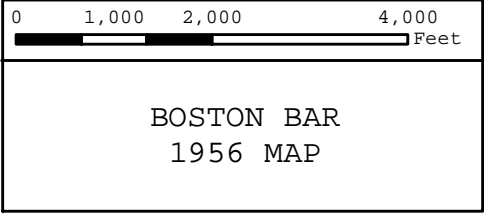


PLATE
NUMBER
13



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PLATE
NUMBER
14

01,0002,0004,000

Feet

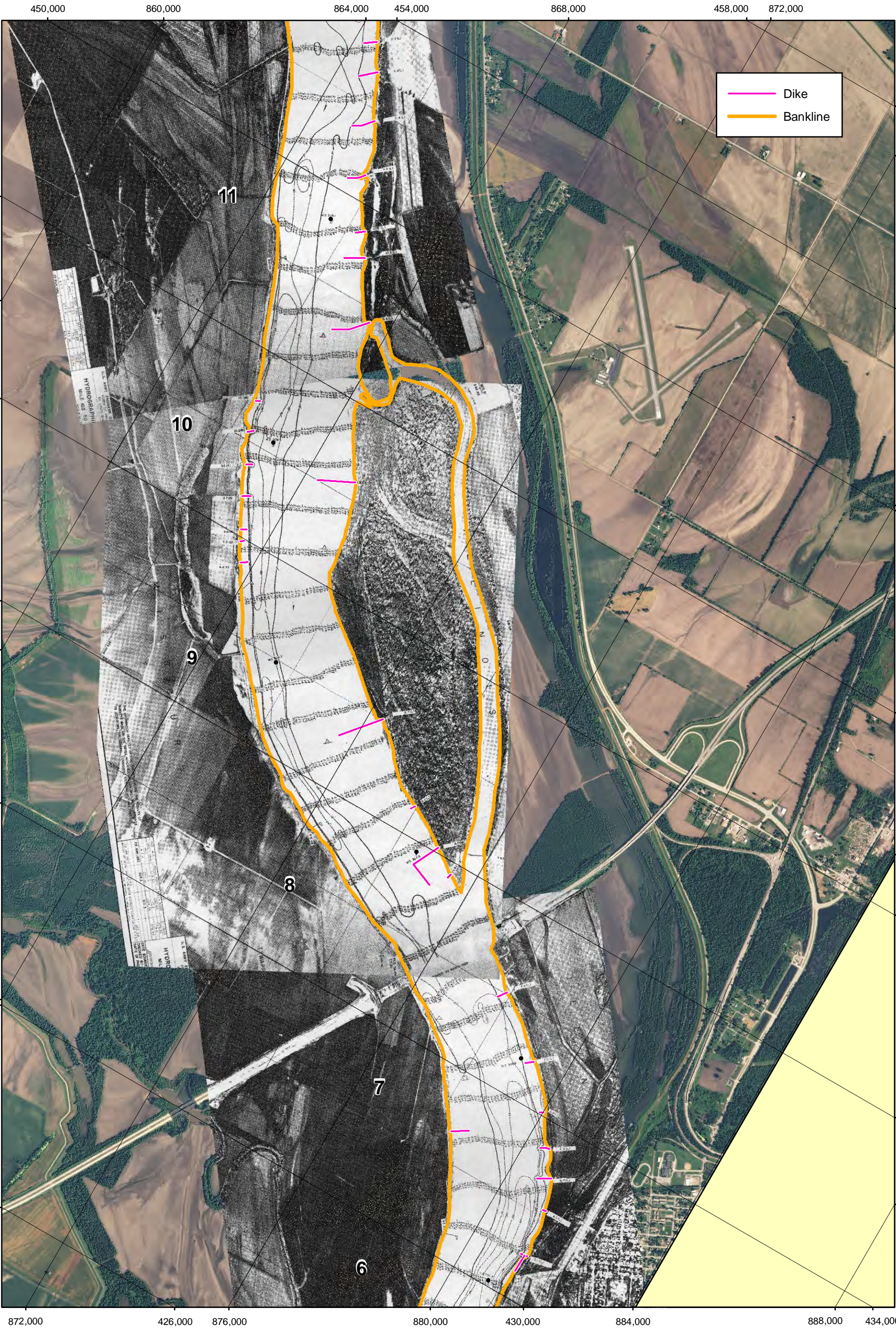
BOSTON BAR
1976 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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RIVER
ENGINEERING CENTER

US Army Corps
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St. Louis District



Dike

Bankline

PLATE
NUMBER
15

01,0002,0004,000

Feet

BOSTON BAR
1982 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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APPLIED
RIVER
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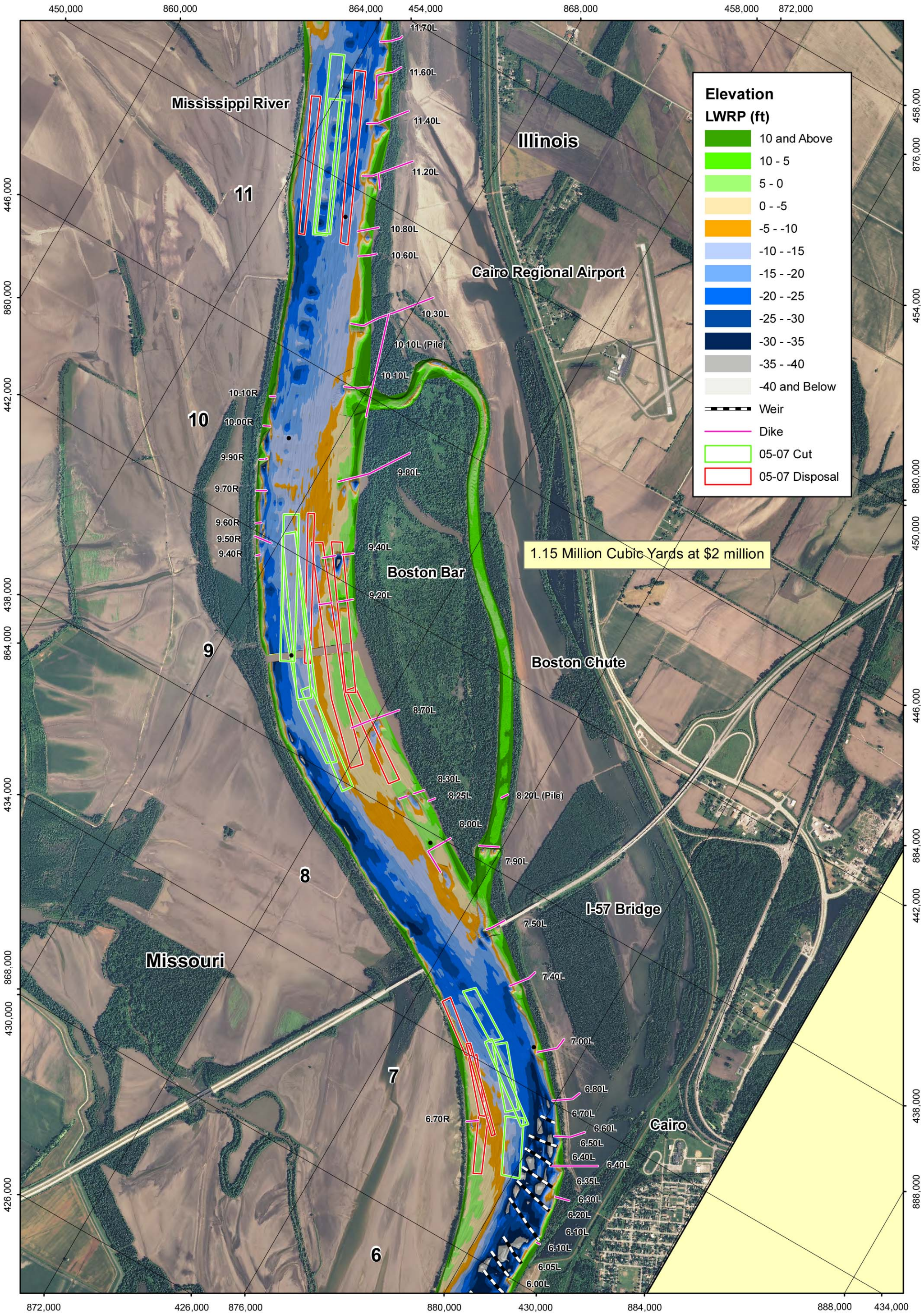
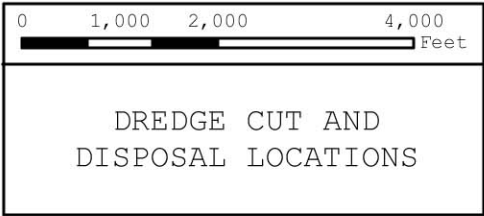


PLATE
NUMBER
16



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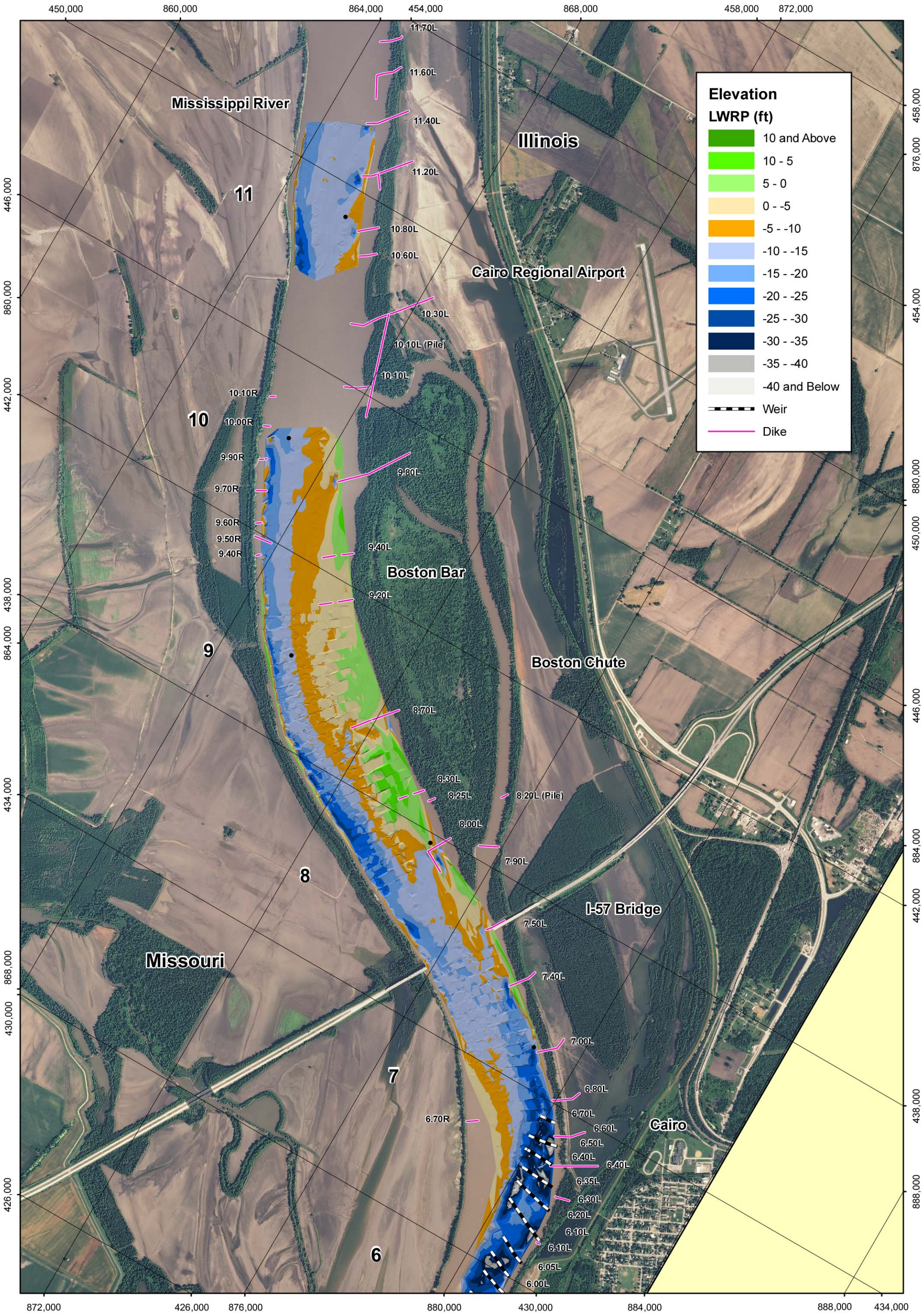


PLATE
NUMBER
17

0 1,000 2,000 4,000
Feet

1998 HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
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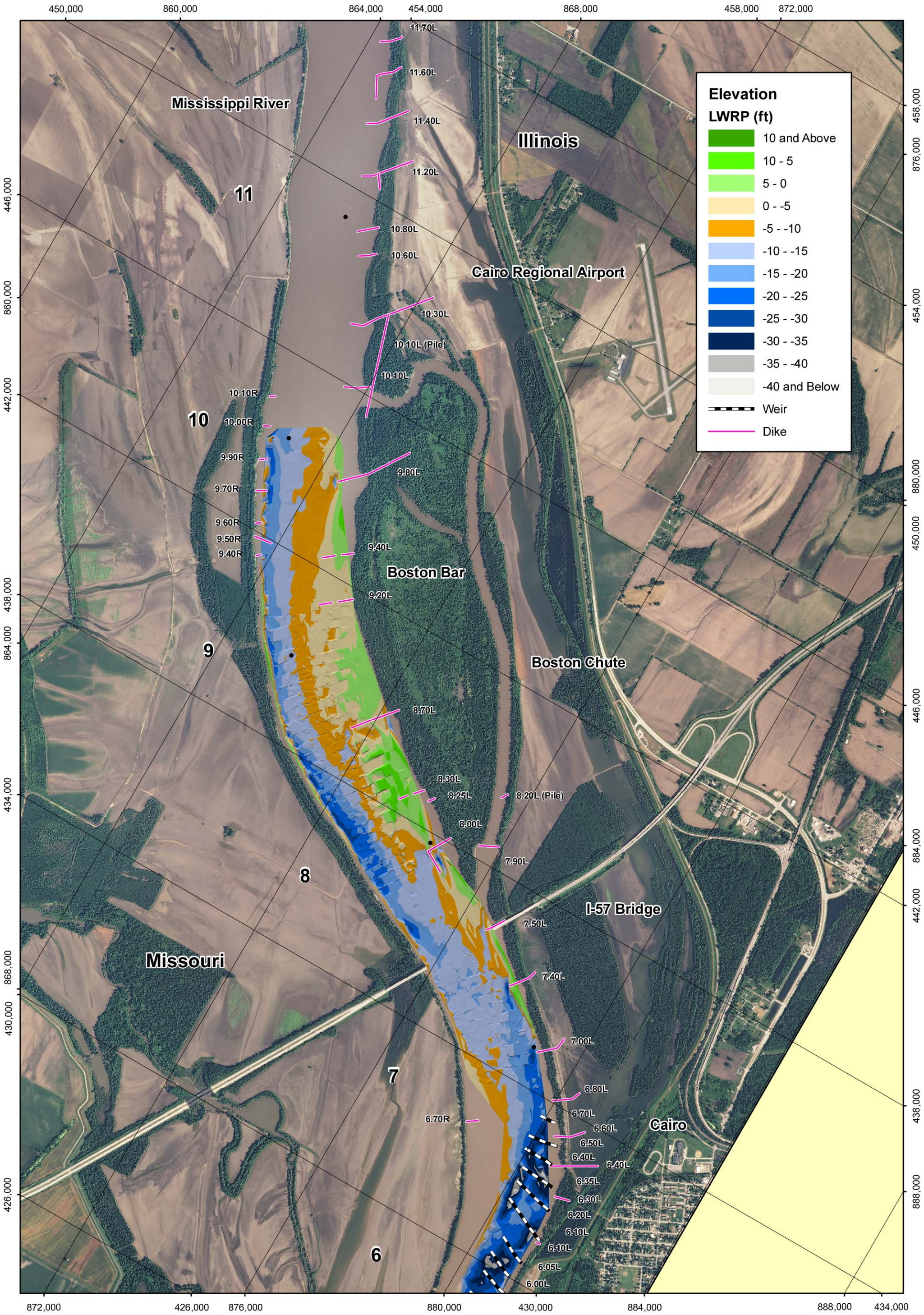
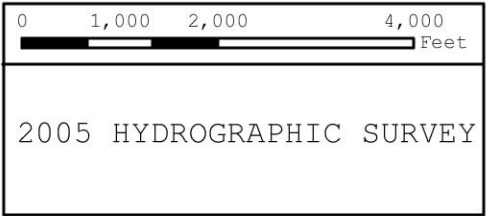


PLATE
NUMBER
18



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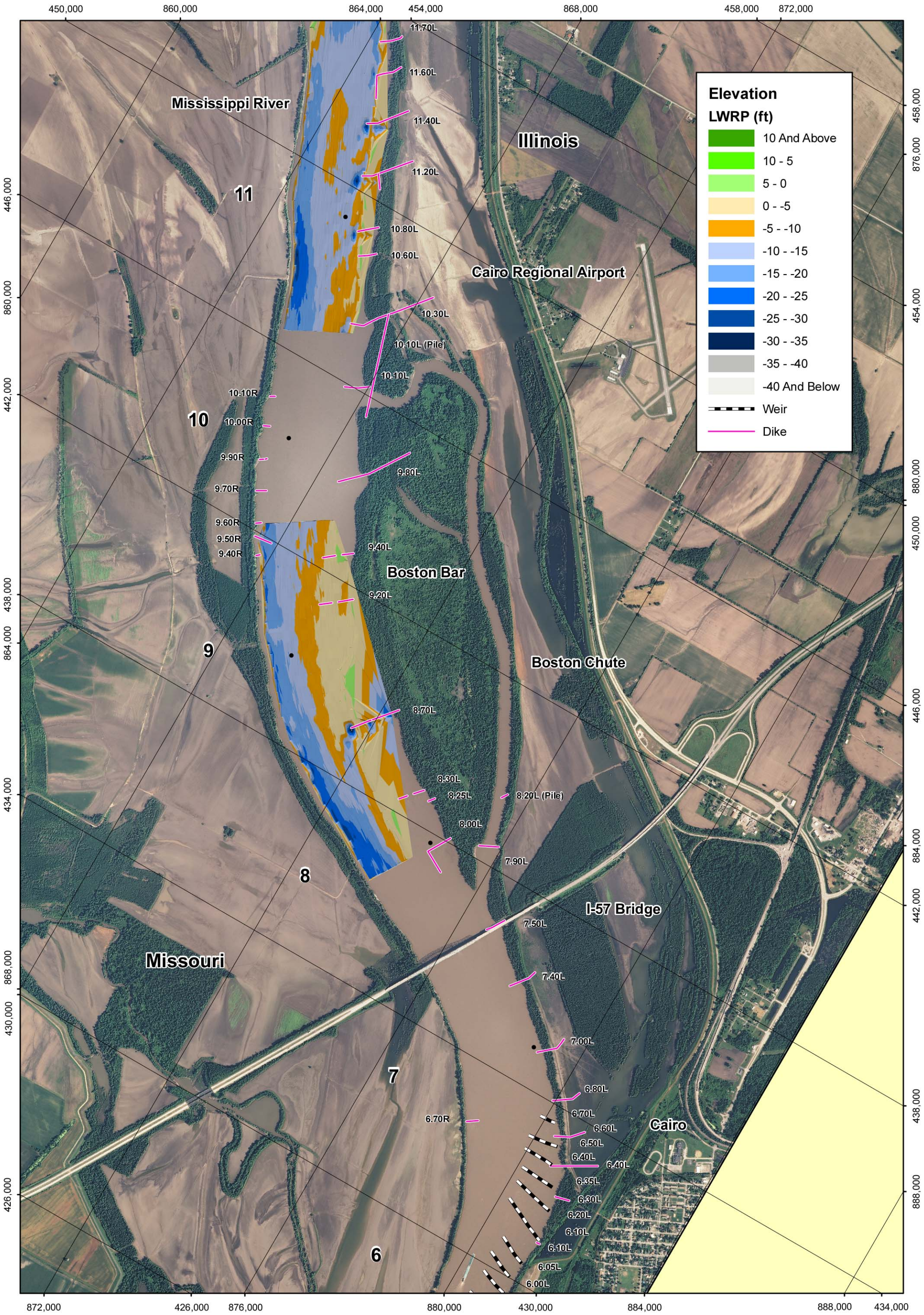


PLATE
NUMBER
19

0 1,000 2,000 4,000
Feet

2006 HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
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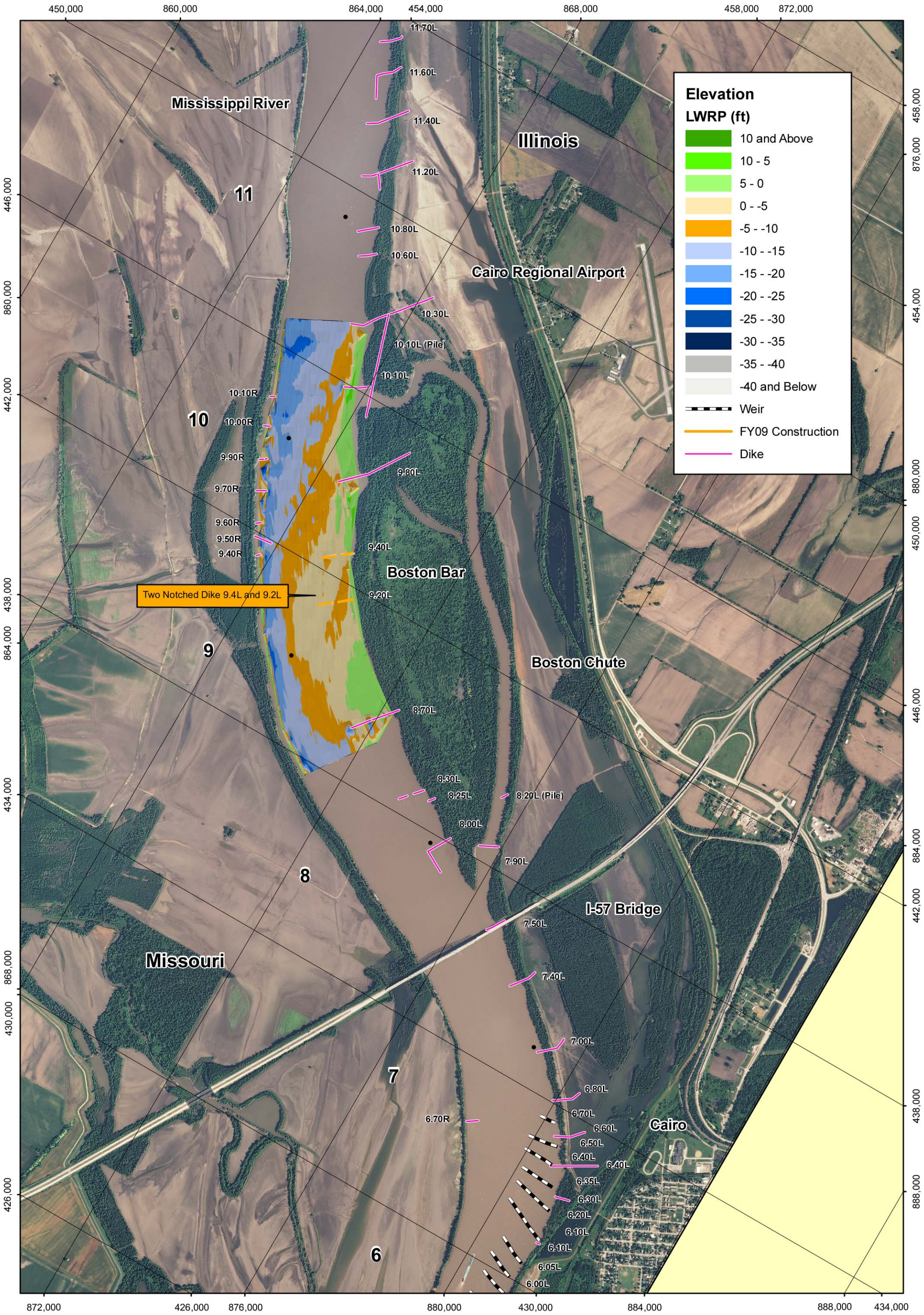


PLATE
NUMBER
20

0 1,000 2,000 4,000
Feet

2008 PRE-DREDGE
HYDROGRAPHIC SURVEY

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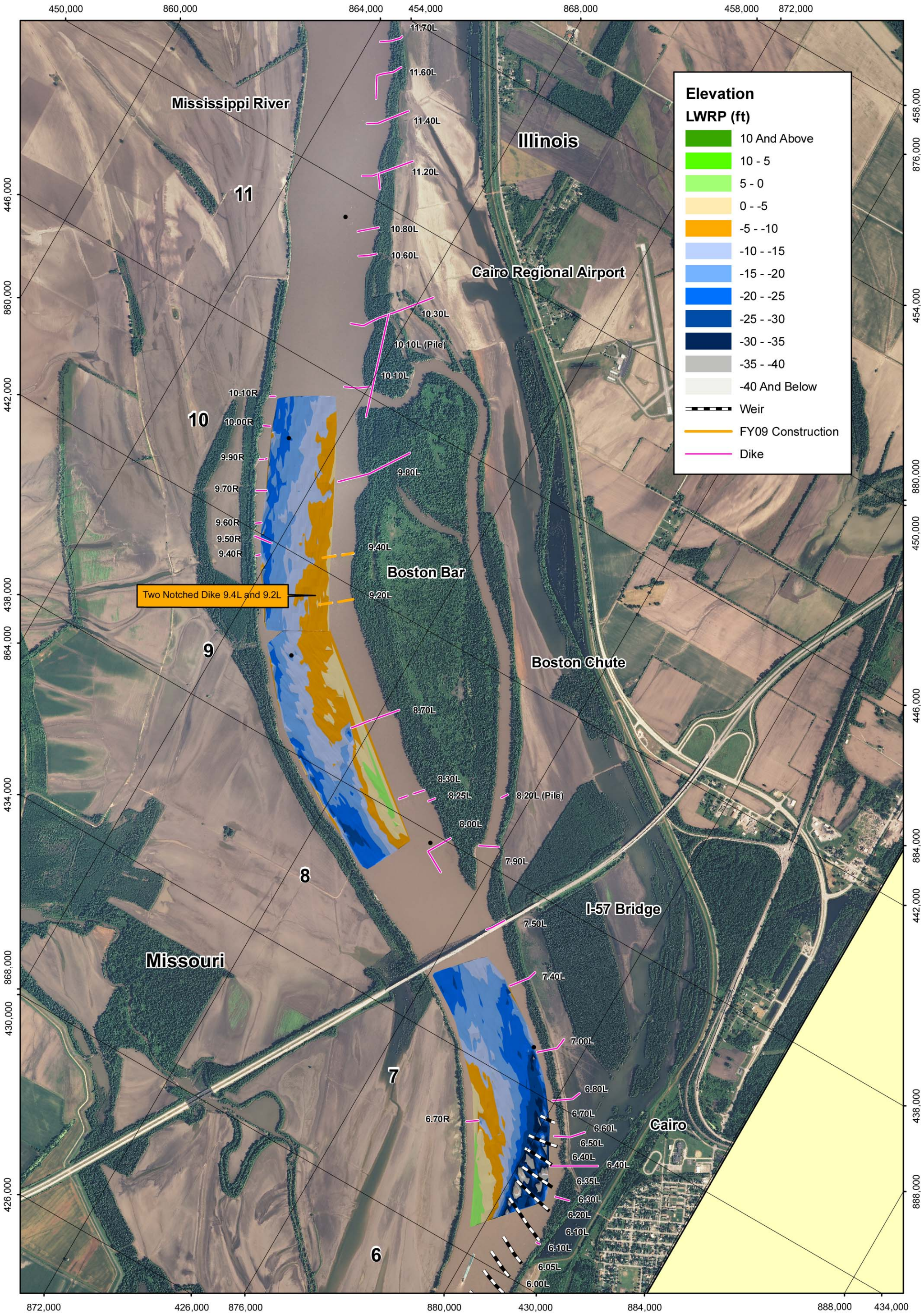


PLATE
NUMBER
21

0 1,000 2,000 4,000
Feet

2008 PRE-POST
HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
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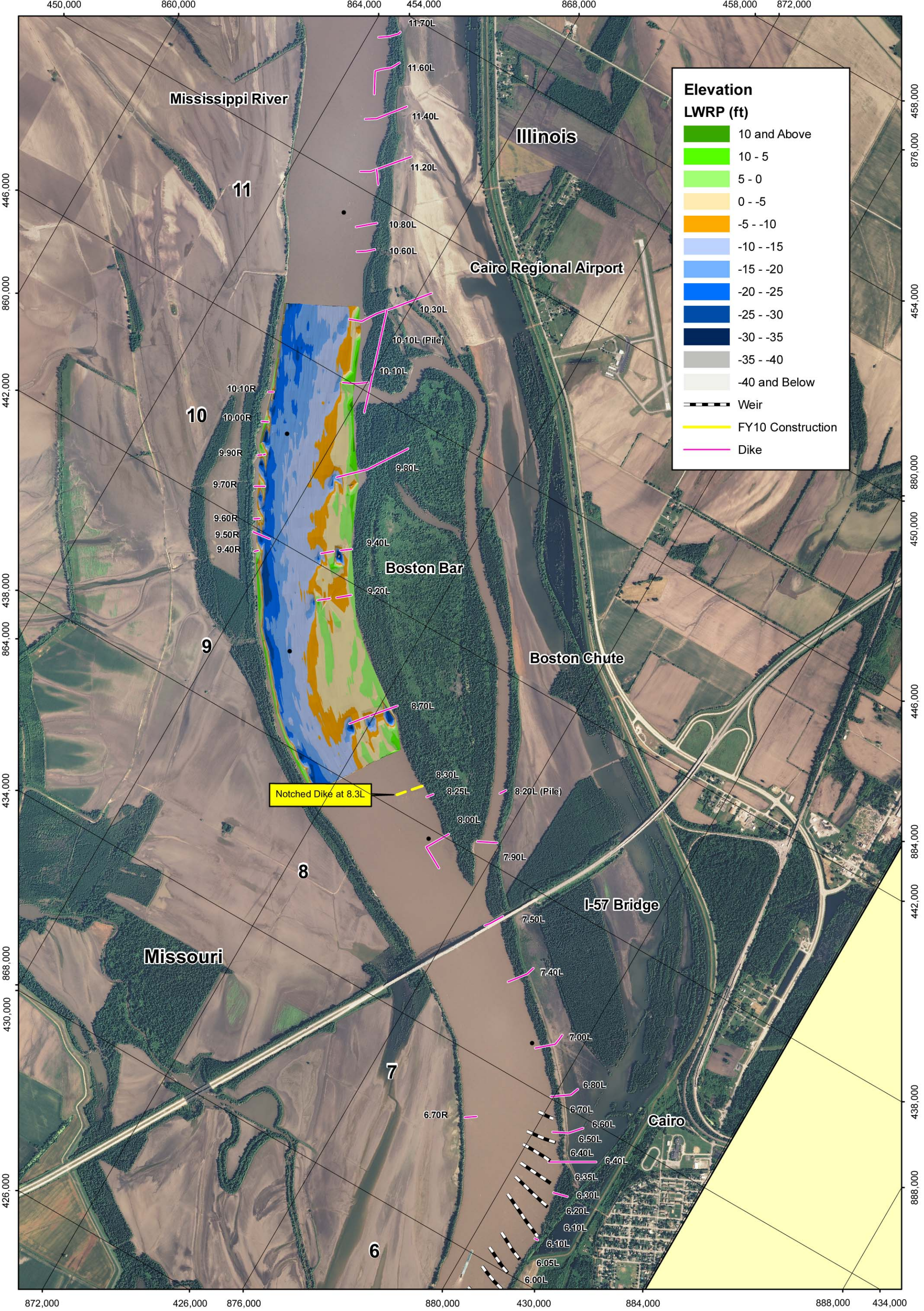


PLATE
NUMBER
22

01,0002,0004,000

Feet

2009 HYDROGRAPHIC SURVEY

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Figure 1: Looking downstream at Closure Structure 7.90L



Figure 3: Existing Boston Chute inflow channel



Figure 2: Looking at the main channel inside Boston Chute inflow channel



Figure 4: Downstream of Boston Bar LDB

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DESIGNED BY I. NGUYEN	REVIEWED BY A. COX
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PROJECT UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011	FILE NAME BOSTON BAR HSR MODEL.MXD

FIELD PHOTOGRAPH AUGUST 2011

PLATE NUMBER 23



U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY I. NGUYEN	REVIEWED BY J. BROWN, P.E.
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MODEL PHOTOGRAPH

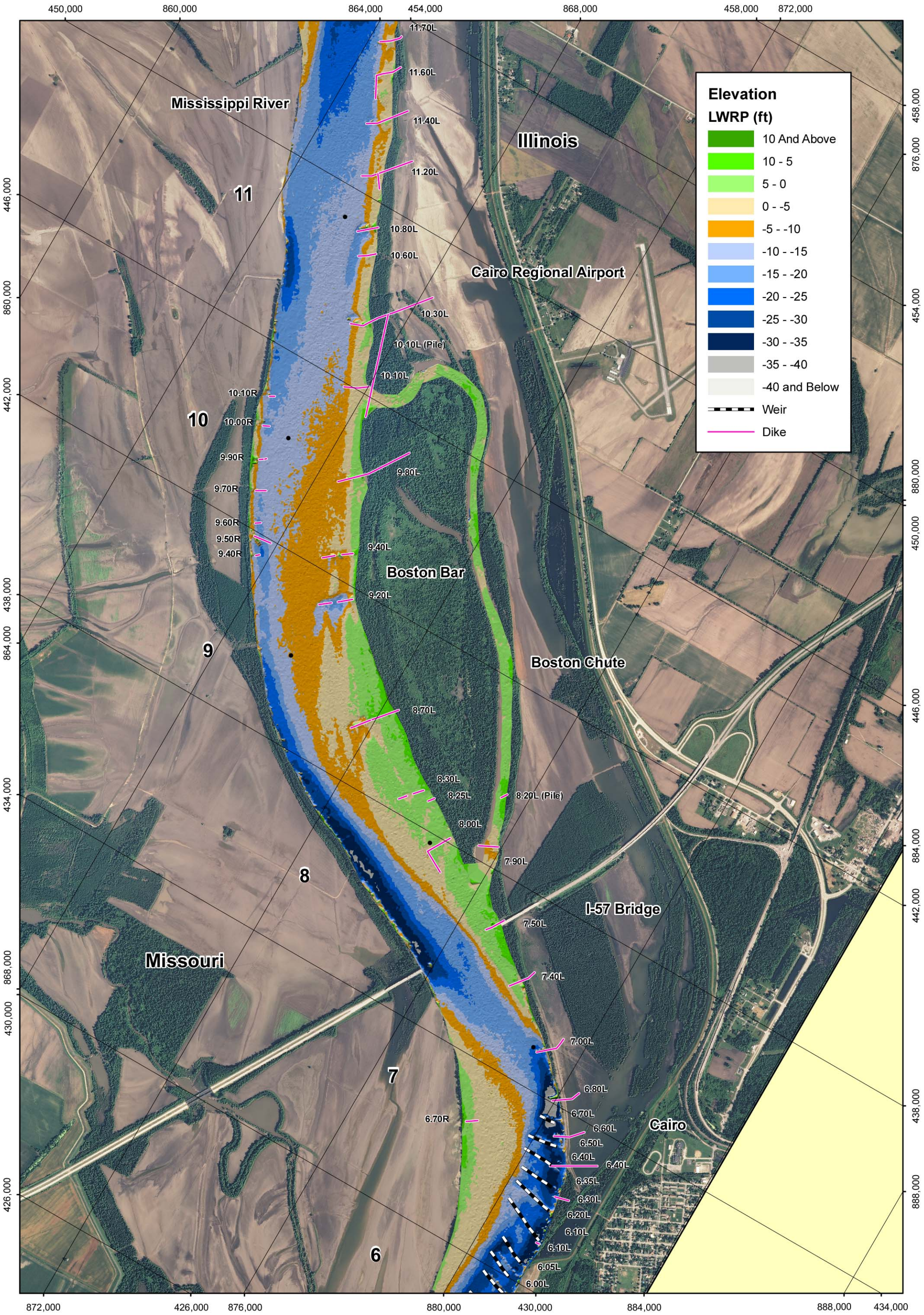
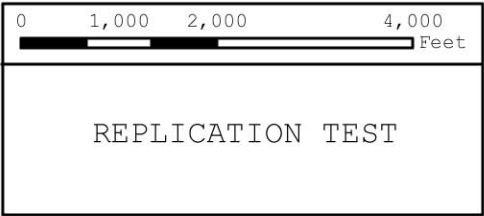
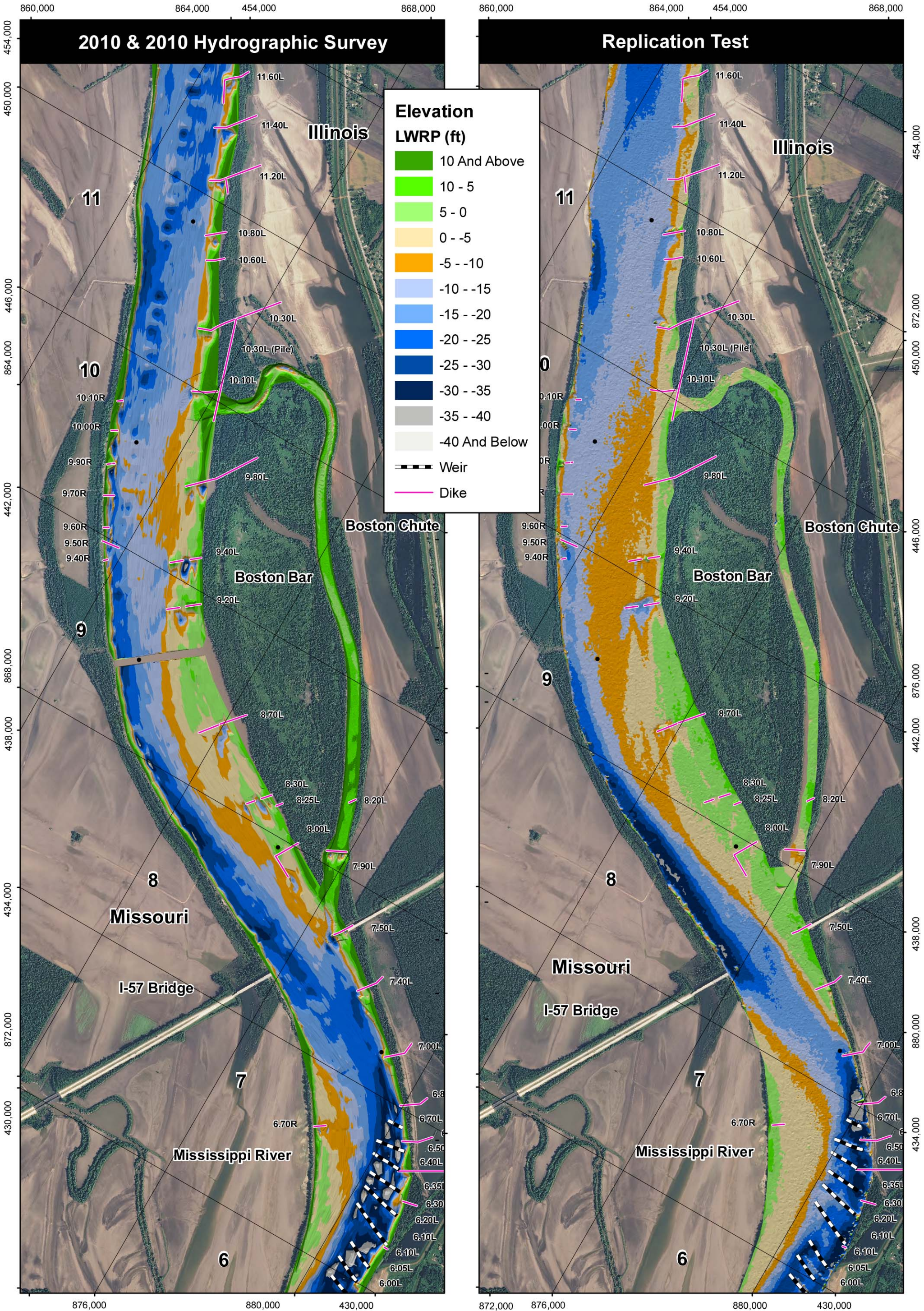


PLATE
NUMBER
25



U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
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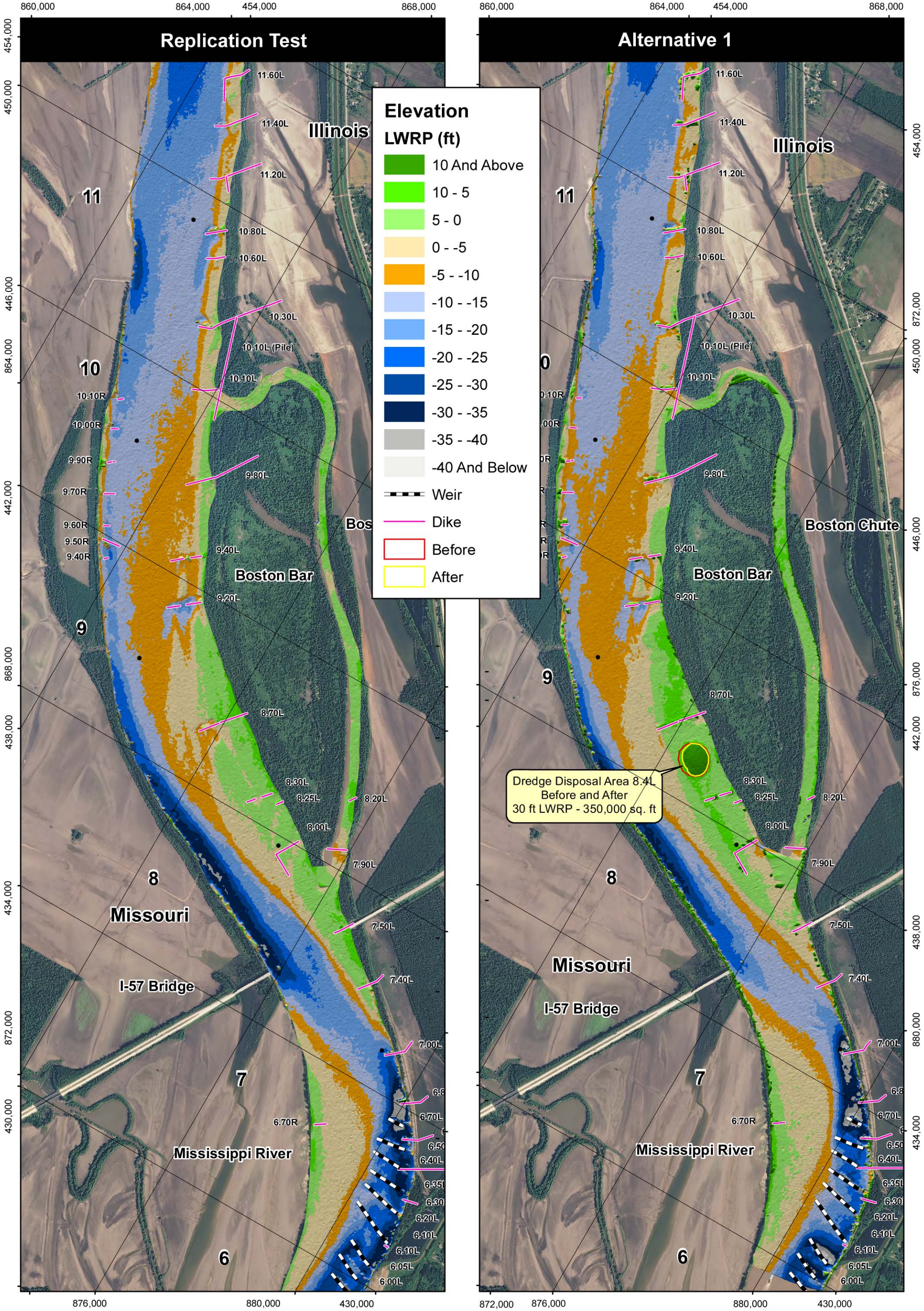


PLATE
NUMBER
27

0 1,000 2,000 4,000 Feet

ALTERNATIVE 1
DREDGE DISPOSAL AREA
8.4L

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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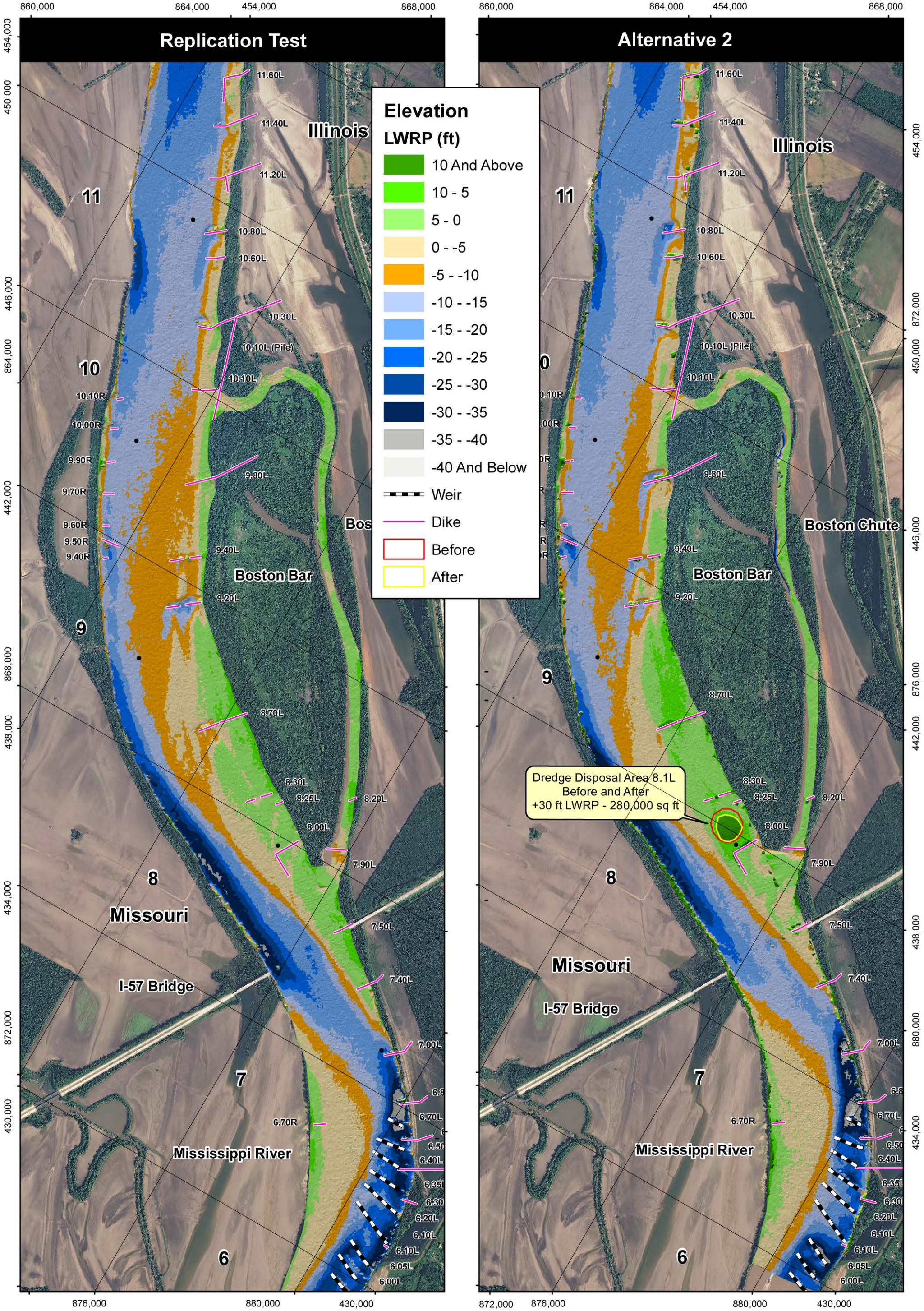


PLATE
NUMBER
28

01,0002,0004,000

Feet

ALTERNATIVE 2
DREDGE DISPOSAL AREA
8.1L

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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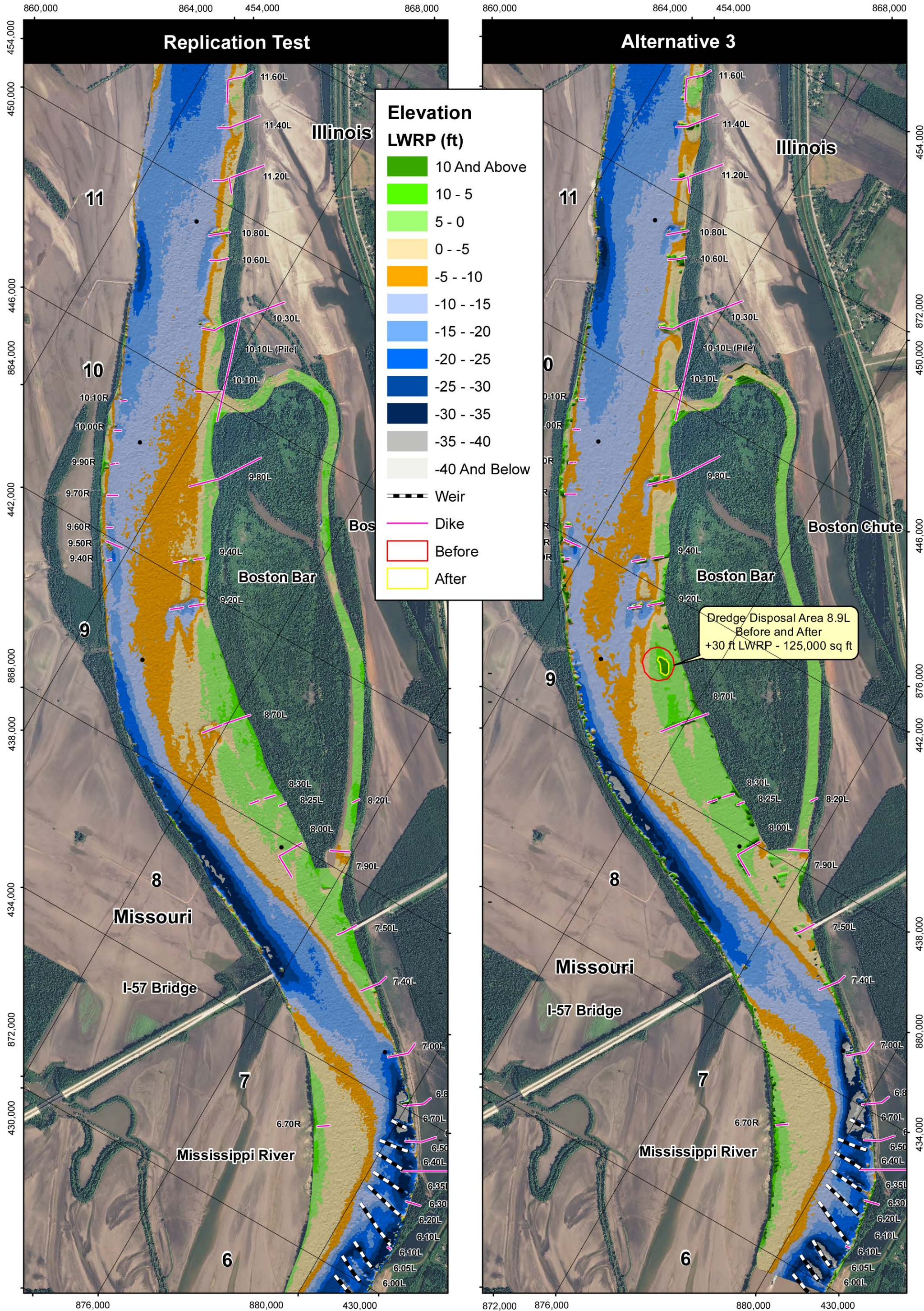
APPLIED
ENGINEERING CENTER

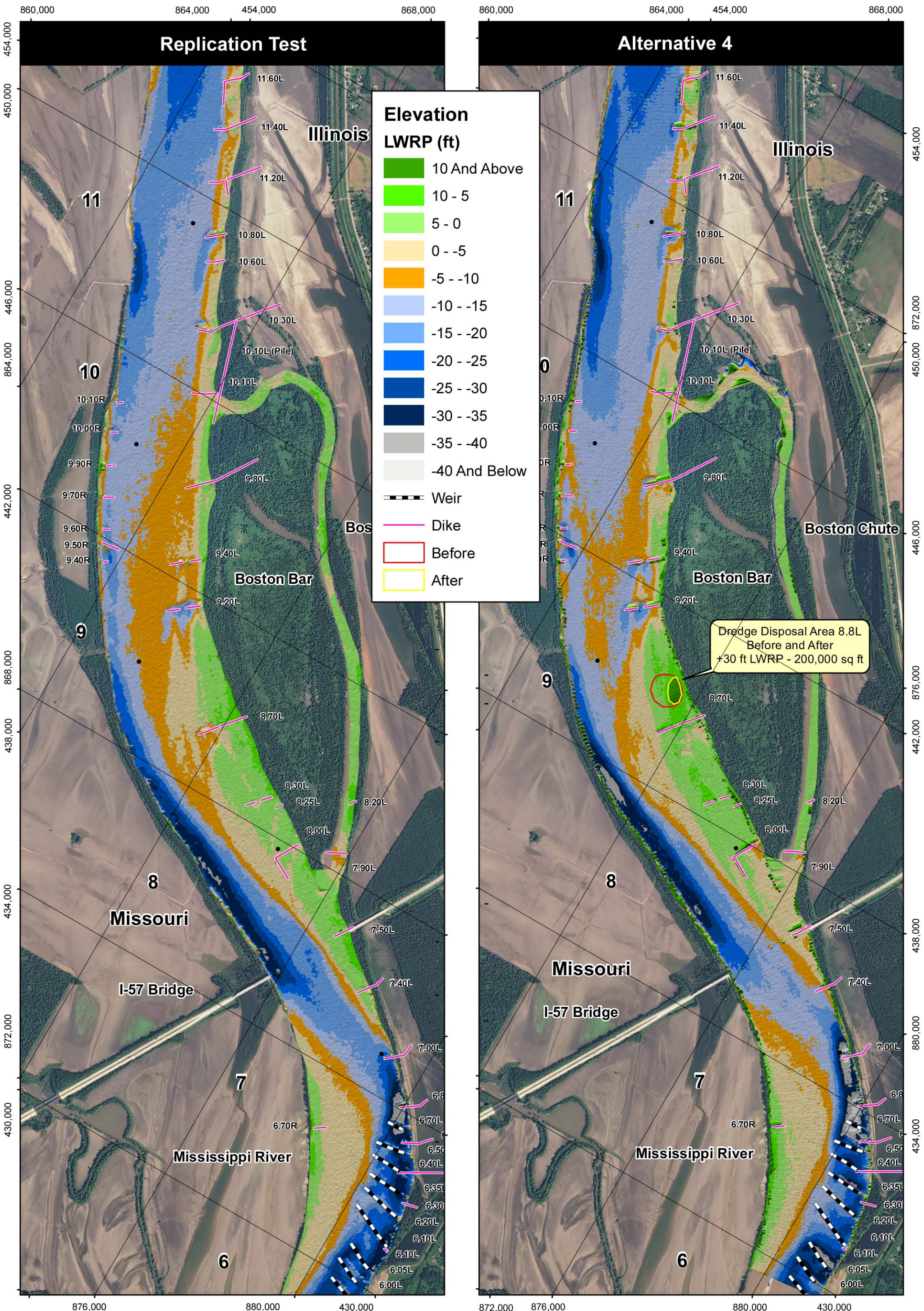
RIVER

US Army Corps
of Engineers
St. Louis District

North Arrow

Scale Bar

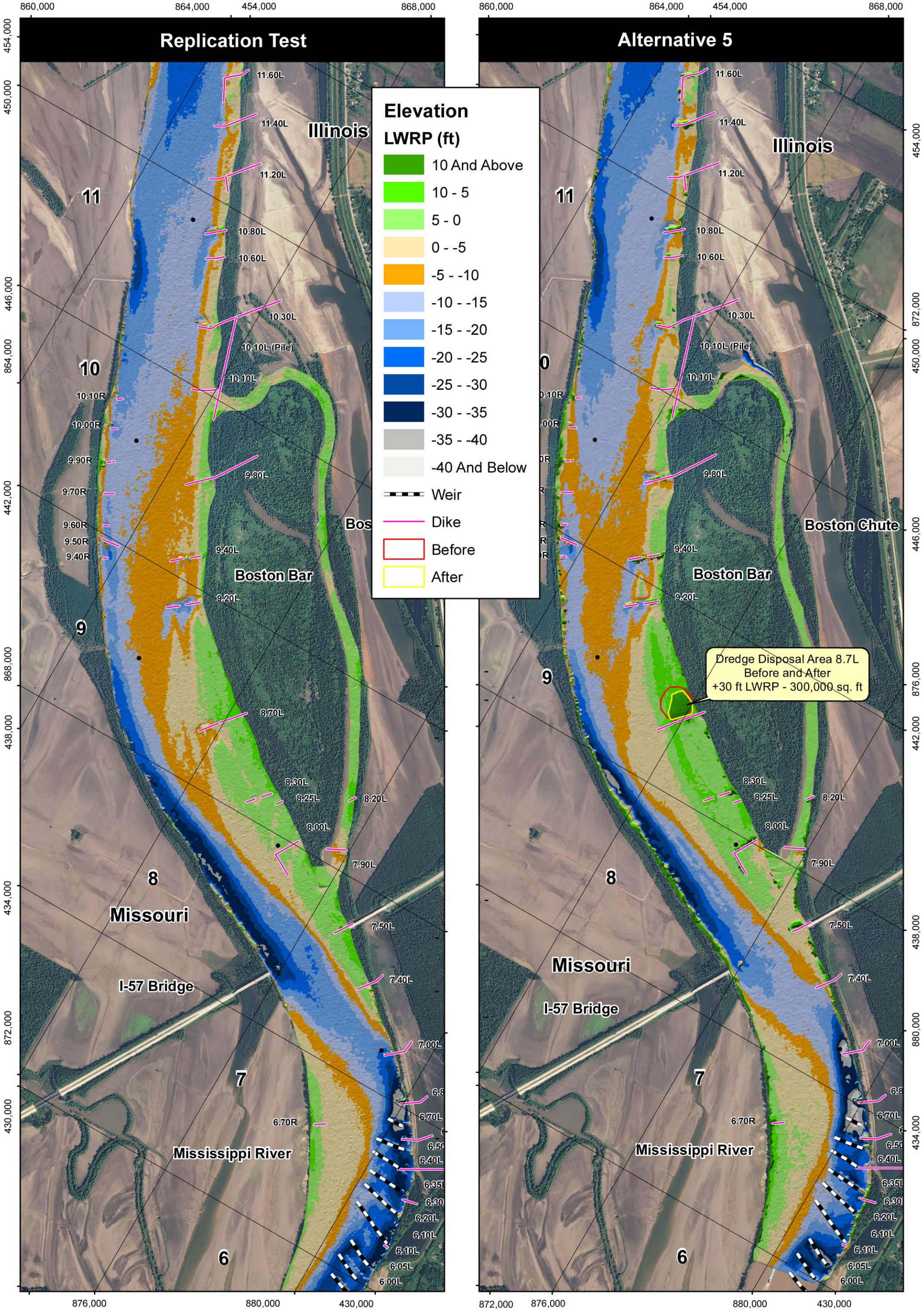


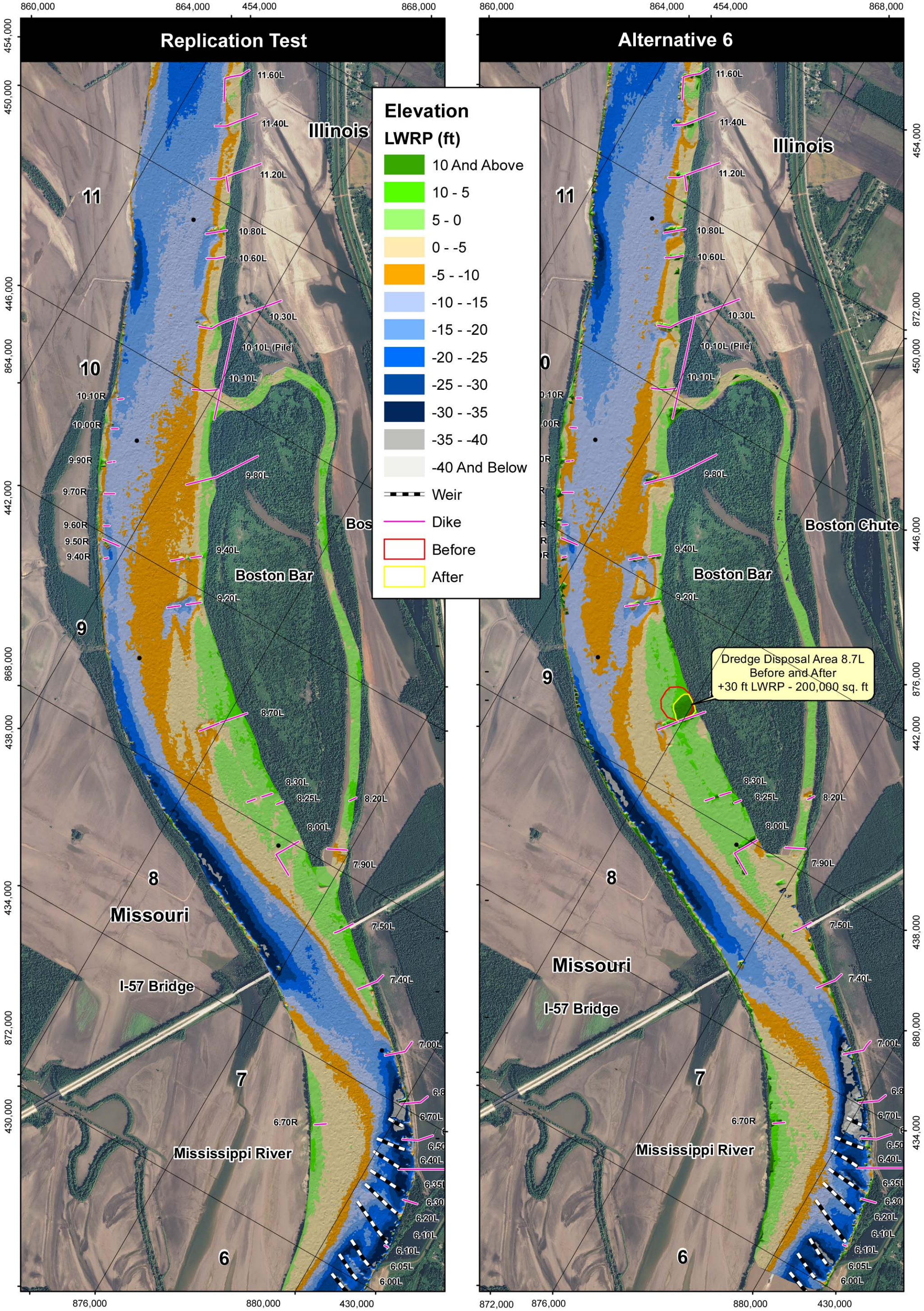


30
NUMBER
PLATE

0 1,000 2,000 4,000 Feet
ALTERNATIVE 4
DREDGE DISPOSAL AREA
8.8L

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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	DATE: OCTOBER 2011	APPROVED BY: R. DAVINROY, P.E.
FILE NAME: BOSTON BAR HSR MODEL.MXD		





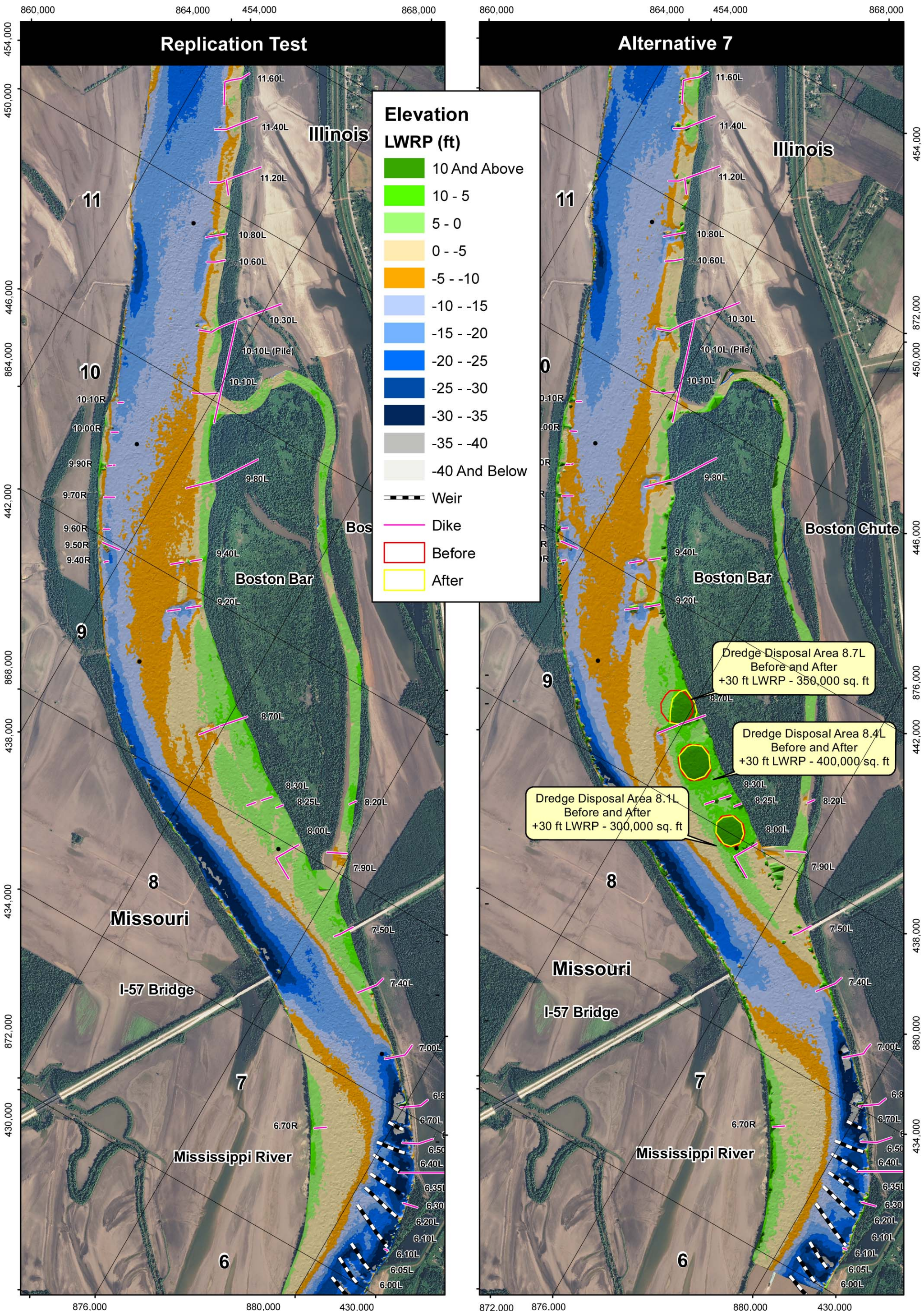
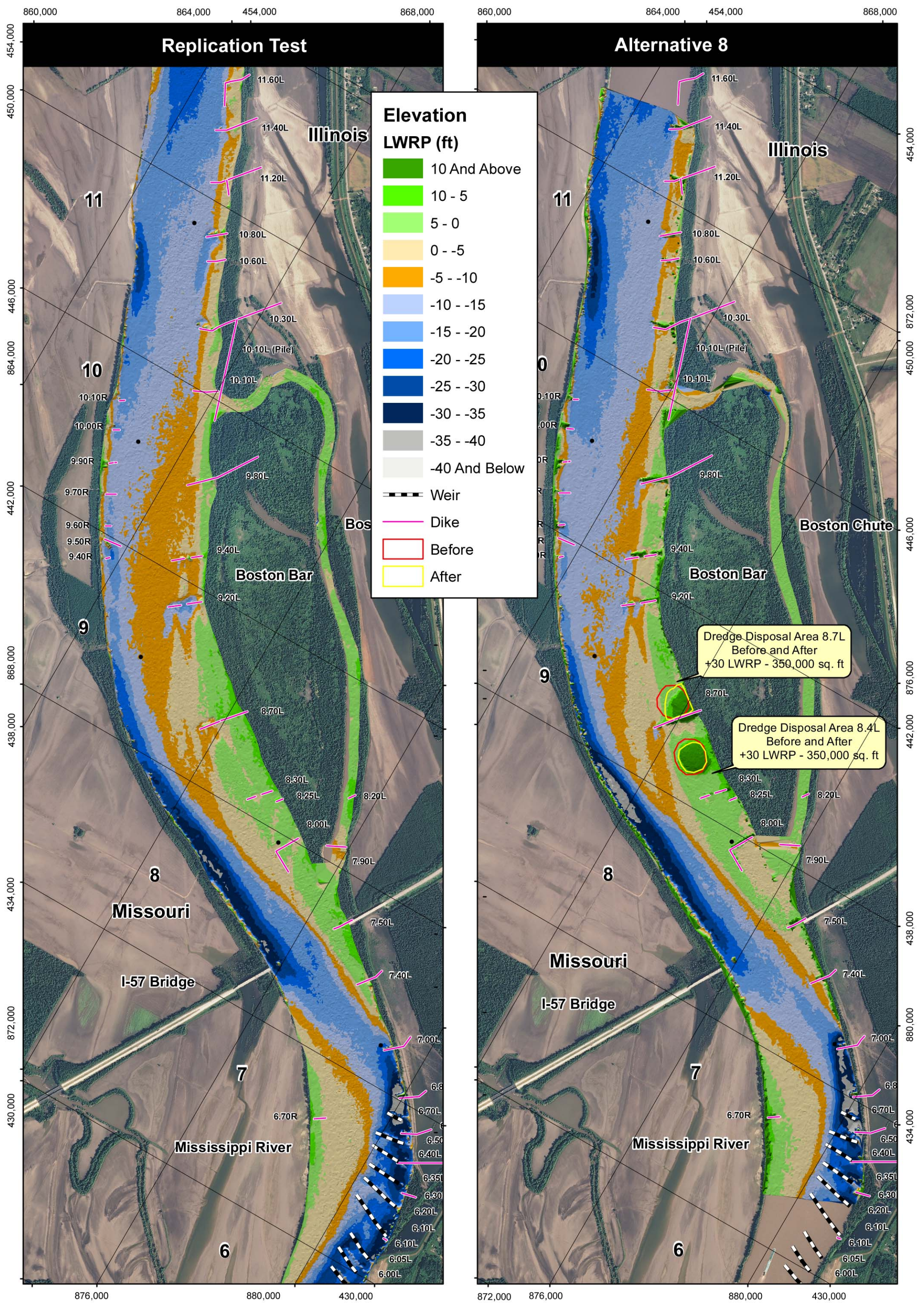


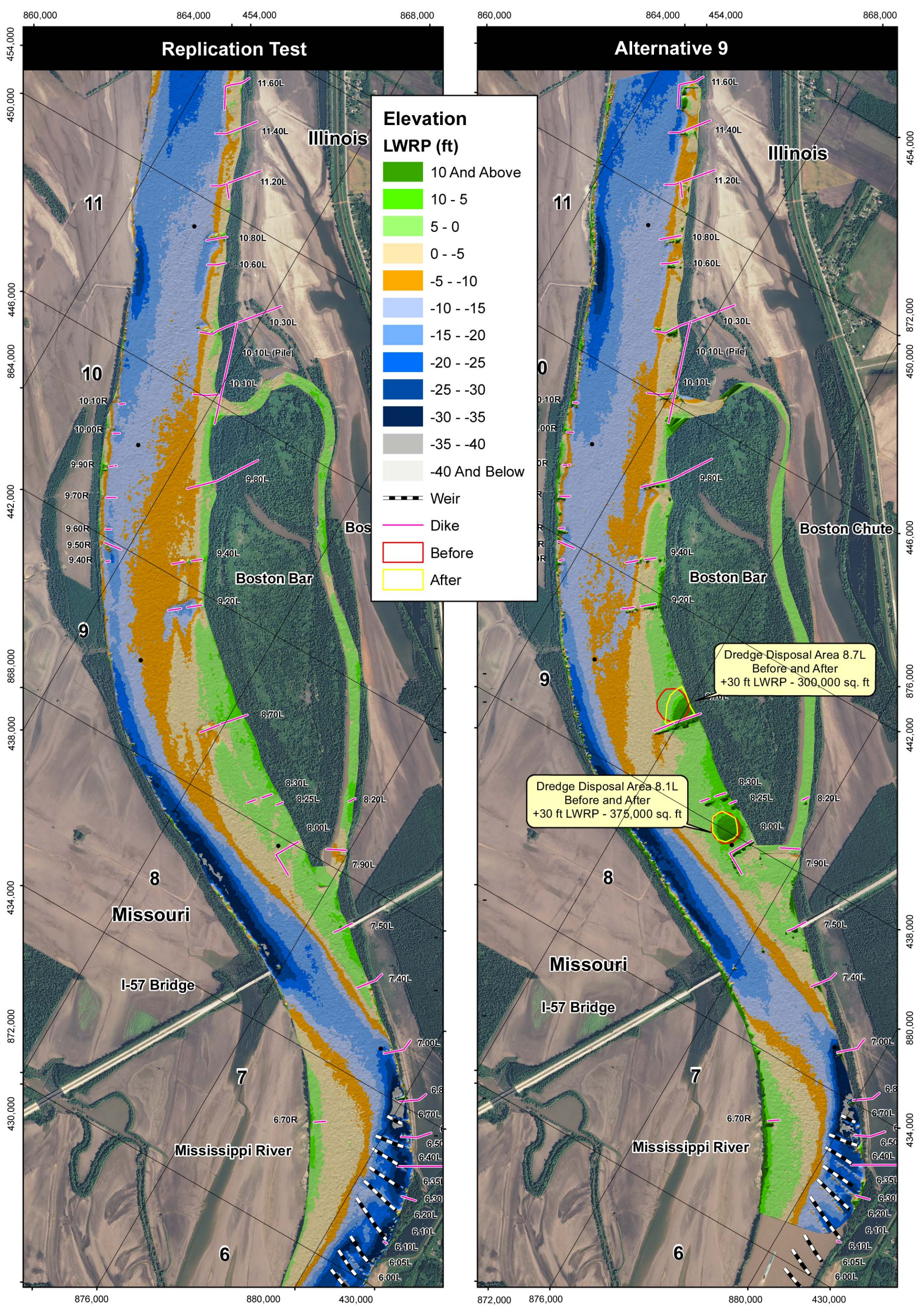
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33

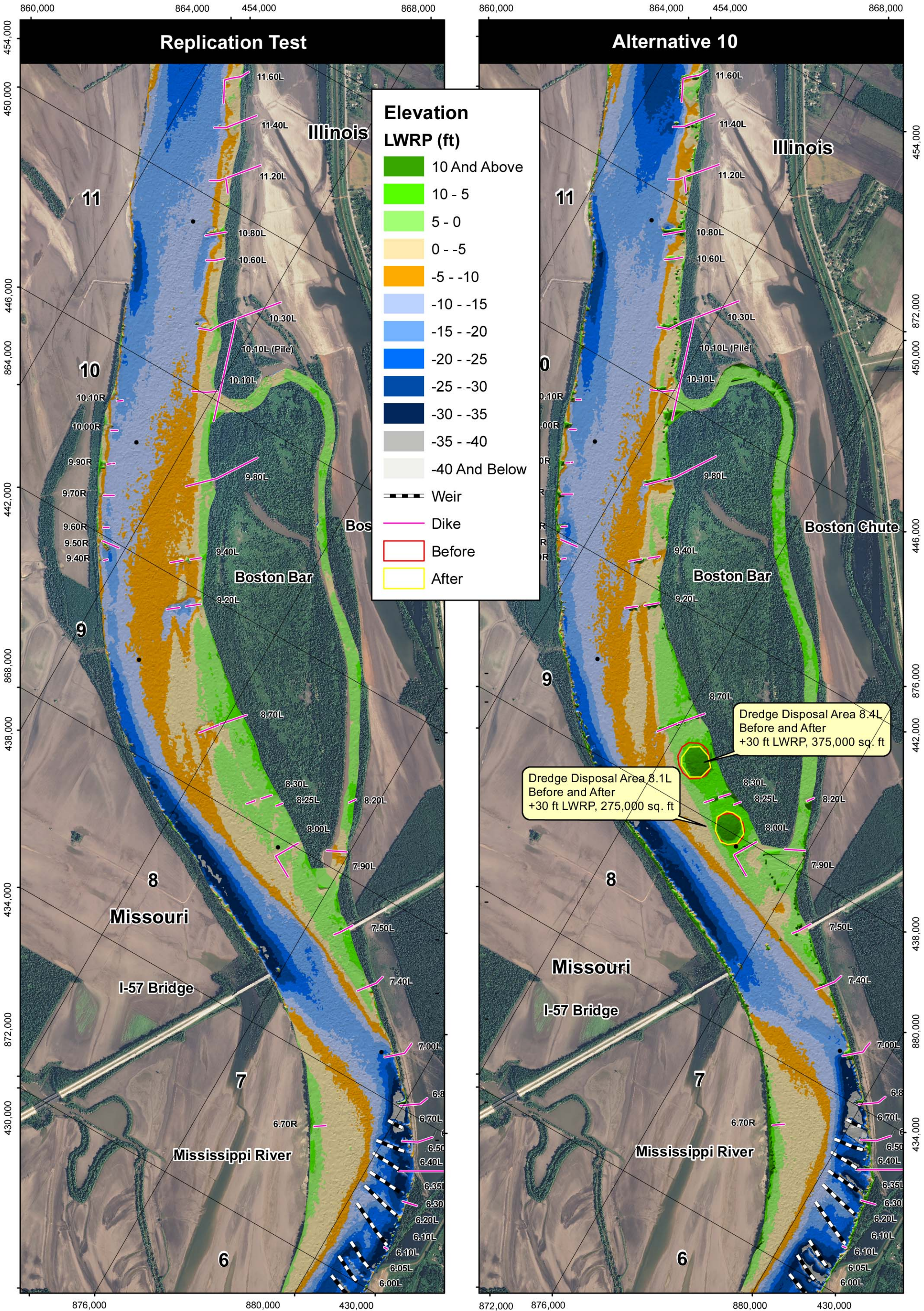
0 1,000 2,000 4,000 Feet
ALTERNATIVE 7
DREDGE DISPOSAL AREA
8.7L, 8.4L & 8.1L

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
	SUBMITTED BY: I. NGUYEN	CHECKED BY: A. COX
UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011	DATE: OCTOBER 2011	APPROVED BY: R. DAVINROY, P.E.
	FILE NAME: BOSTON BAR HSR MODEL.MXD	









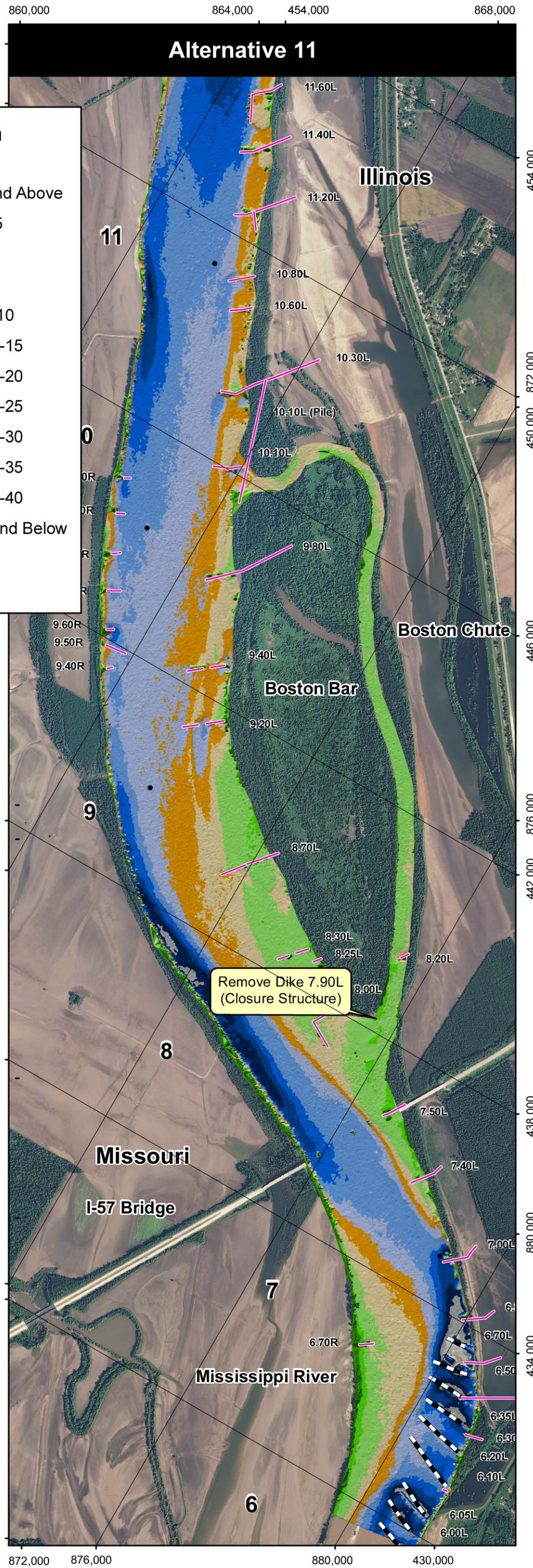
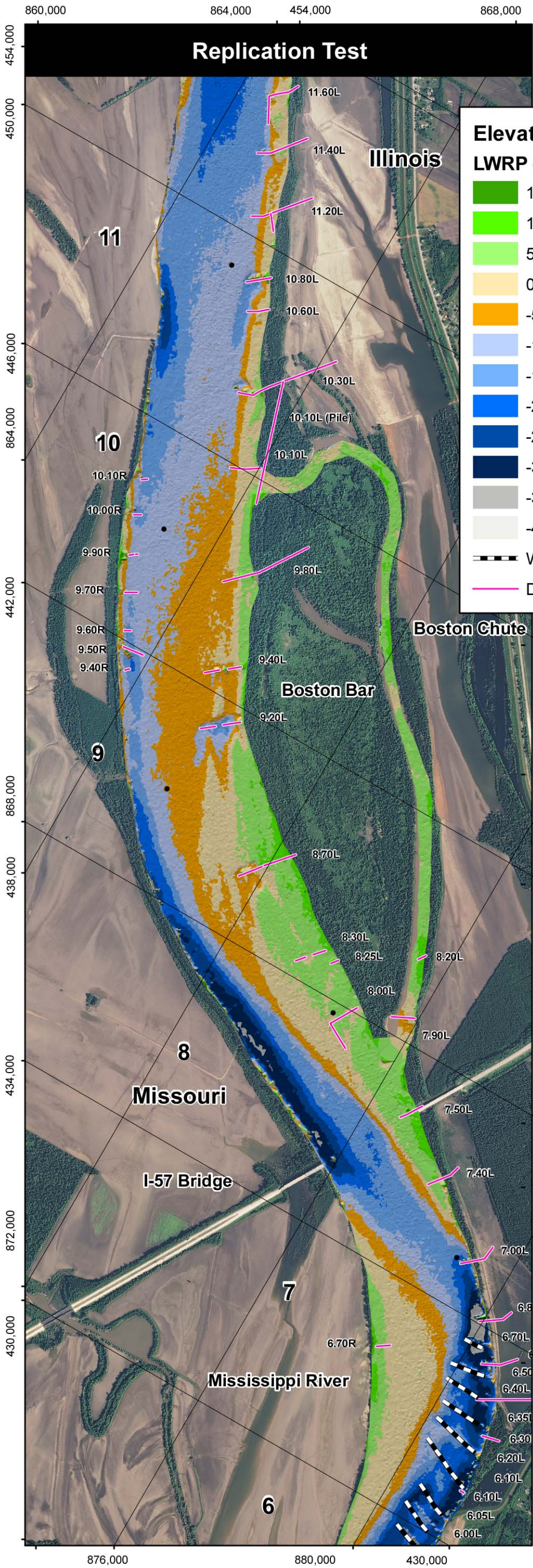


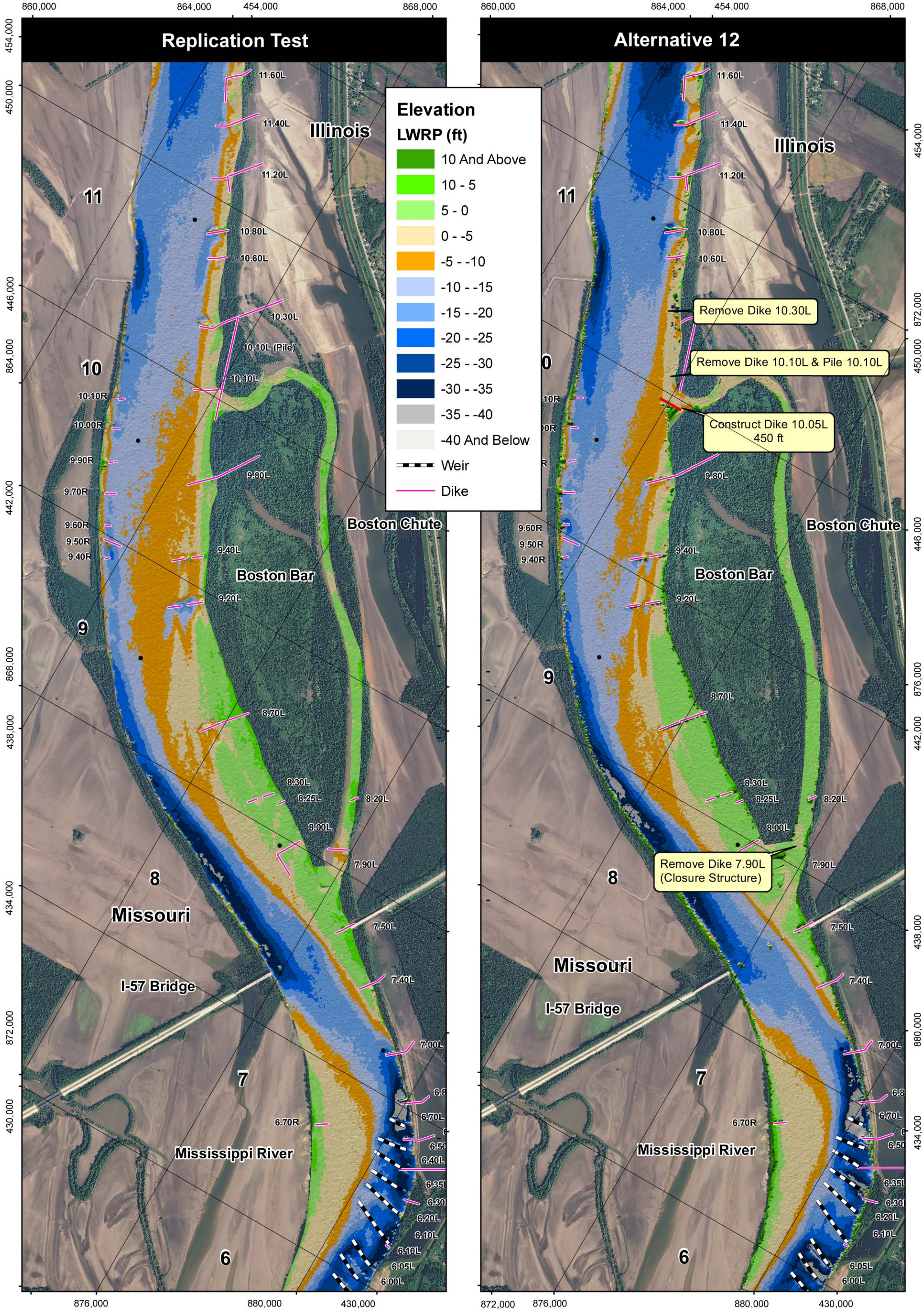
PLATE
NUMBER
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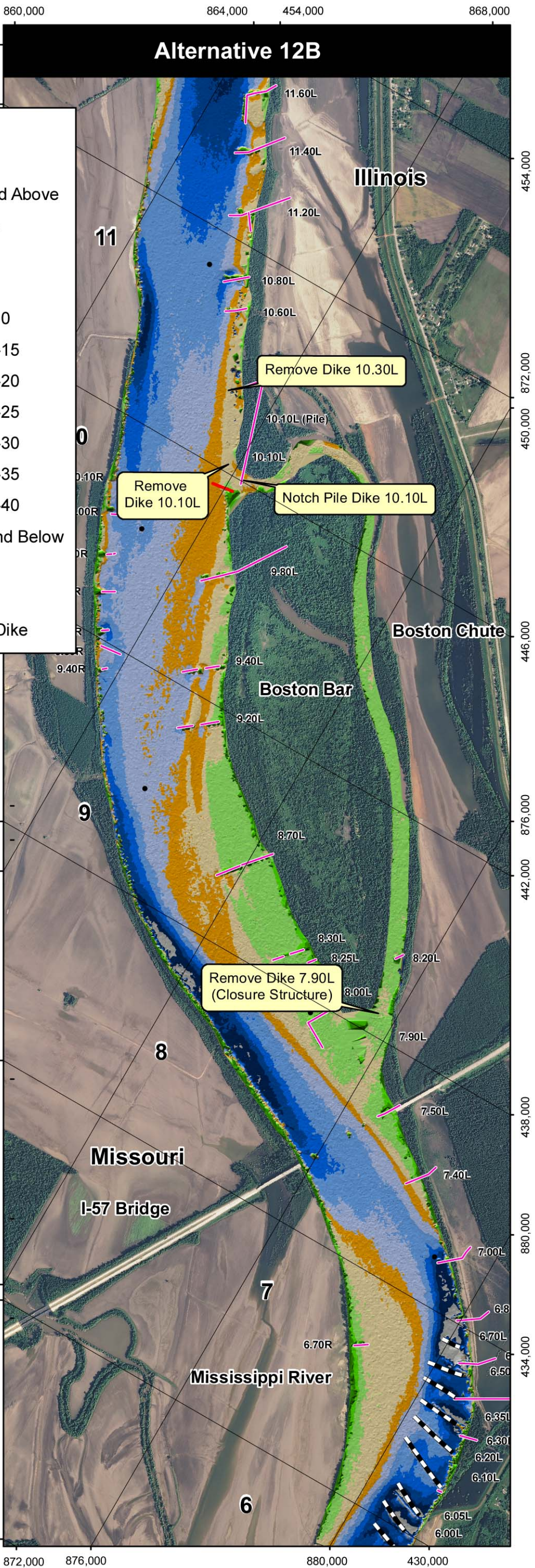
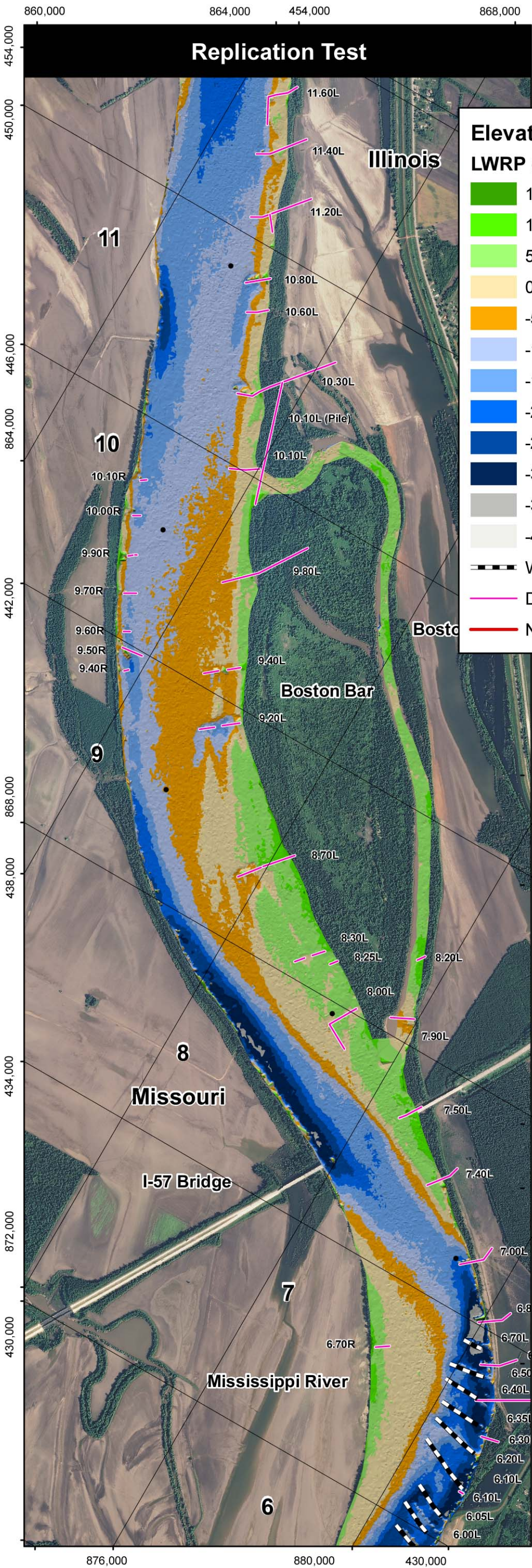
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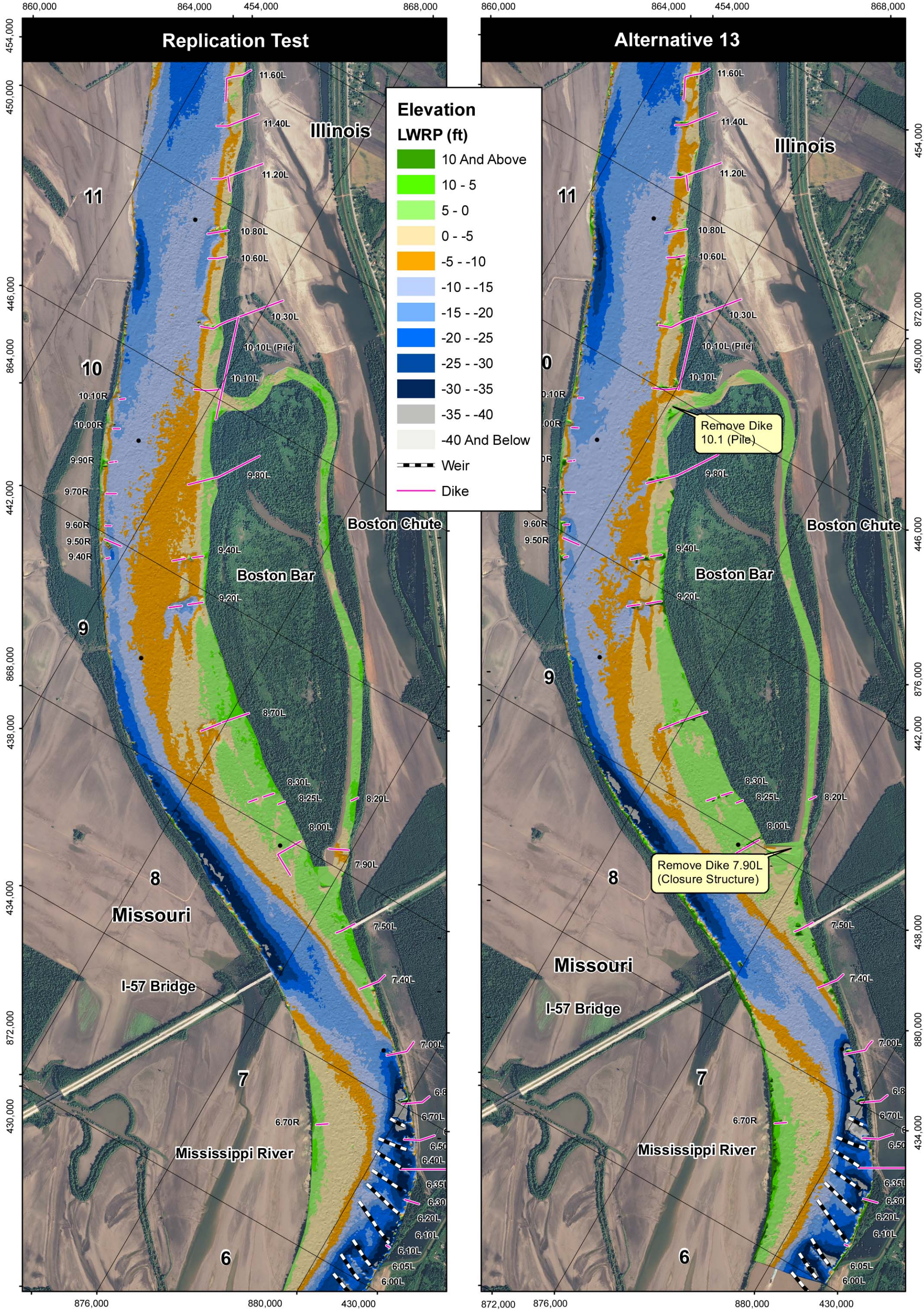
ALTERNATIVE 11
REMOVE DIKE 7.90L

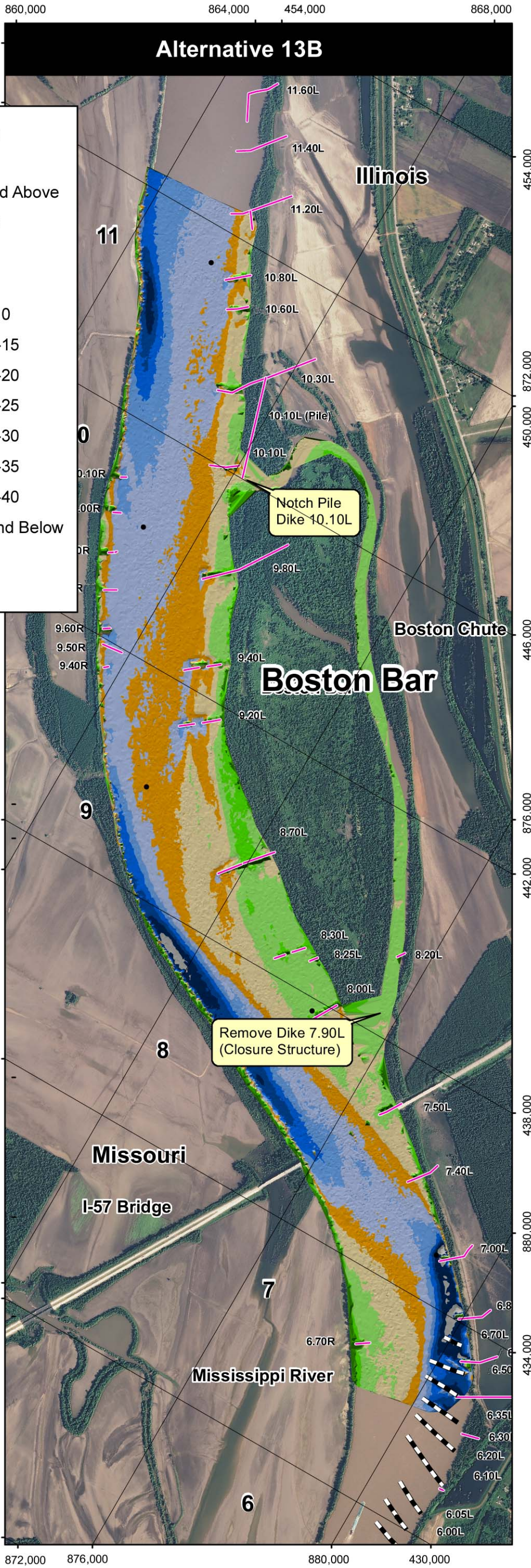
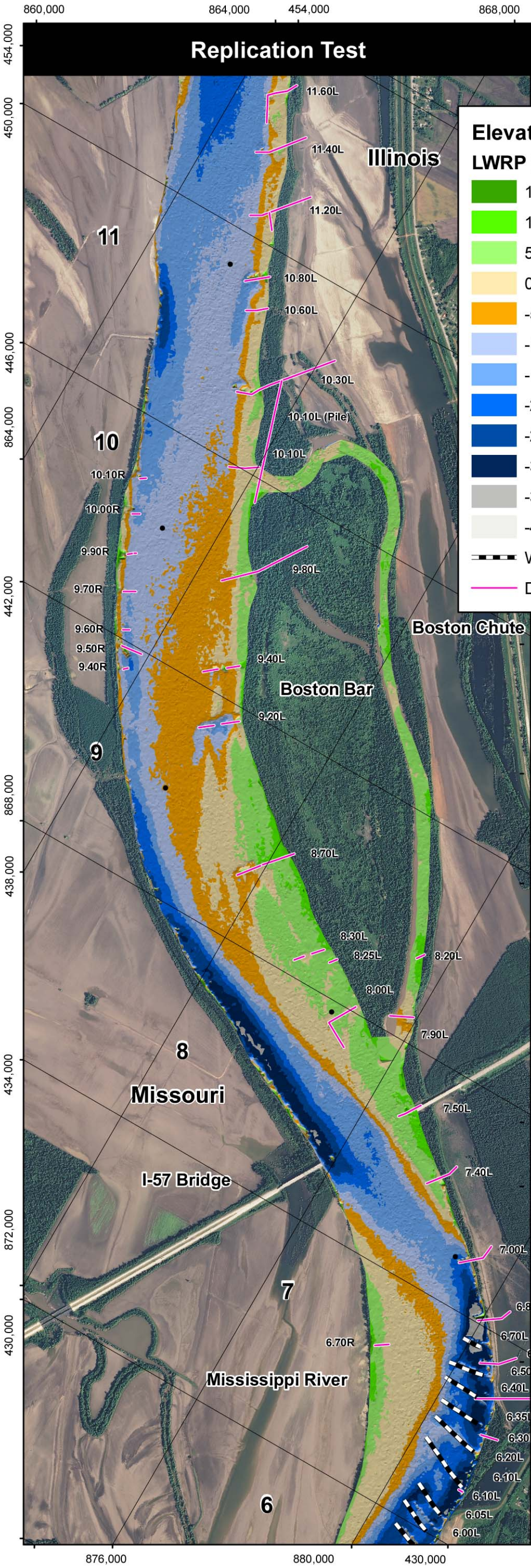
U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY I. NGUYEN	DESIGNED BY J. BROWN, P.E.
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	FILE NAME BOSTON BAR HSR MODEL.MXD	

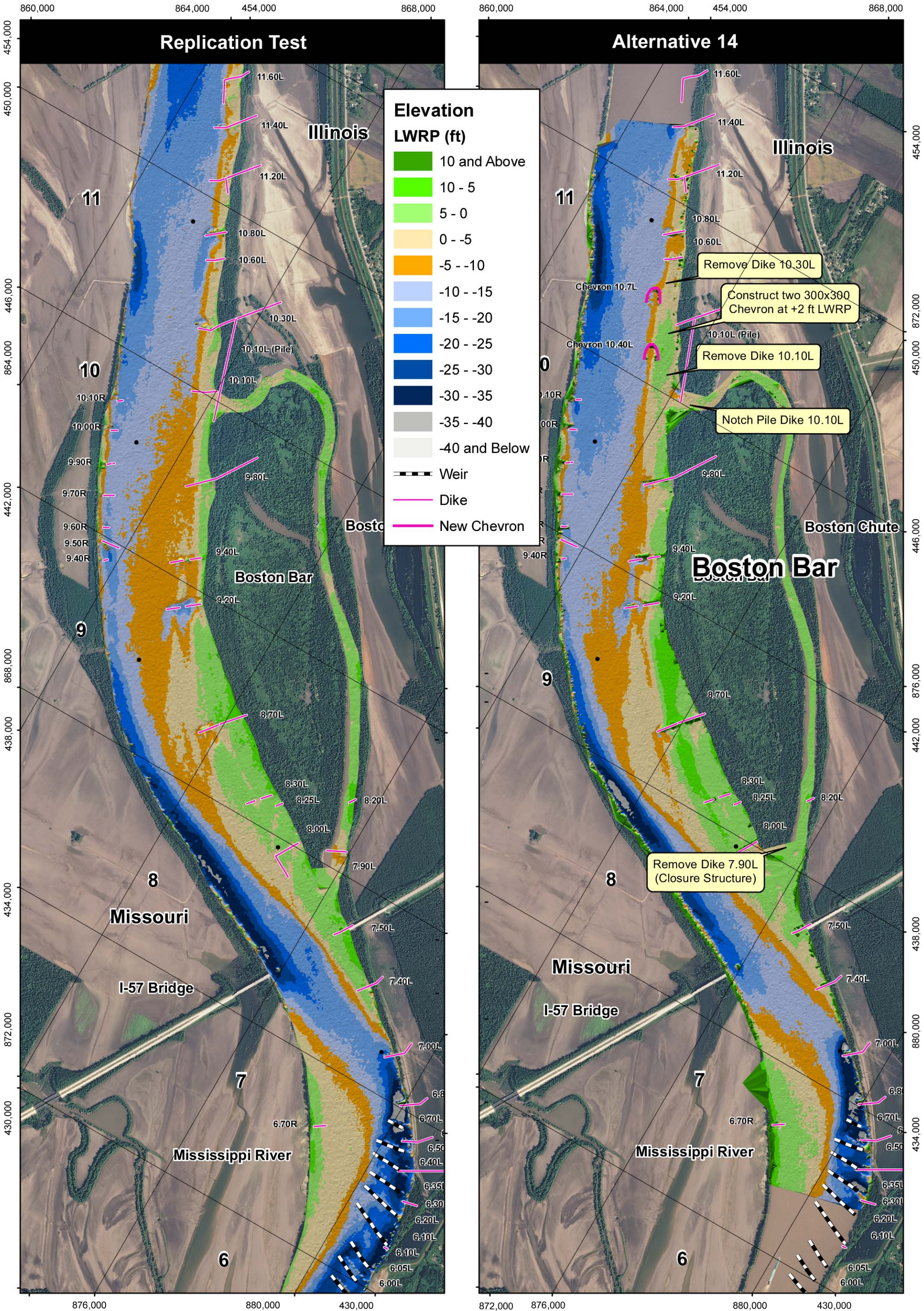


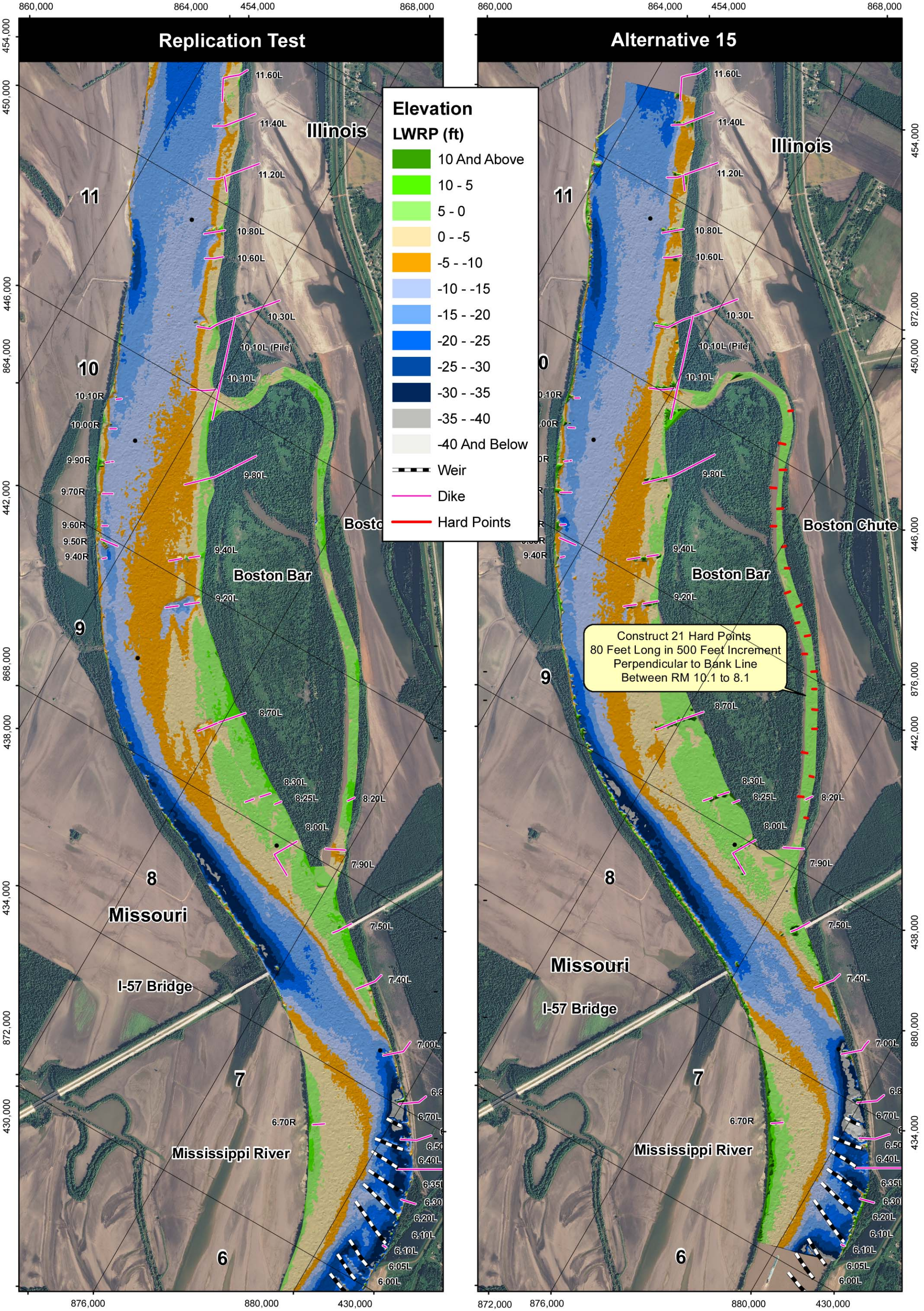


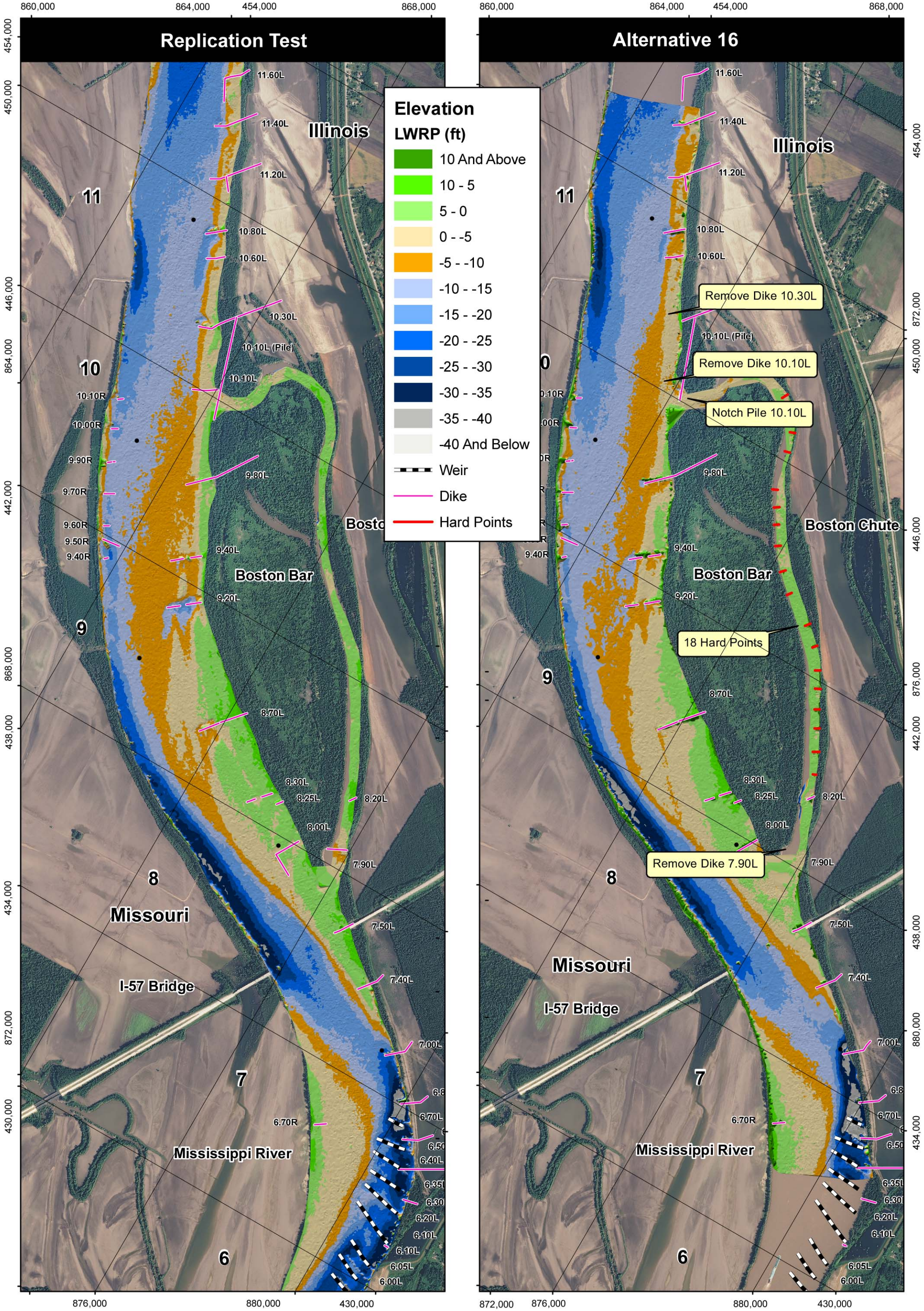












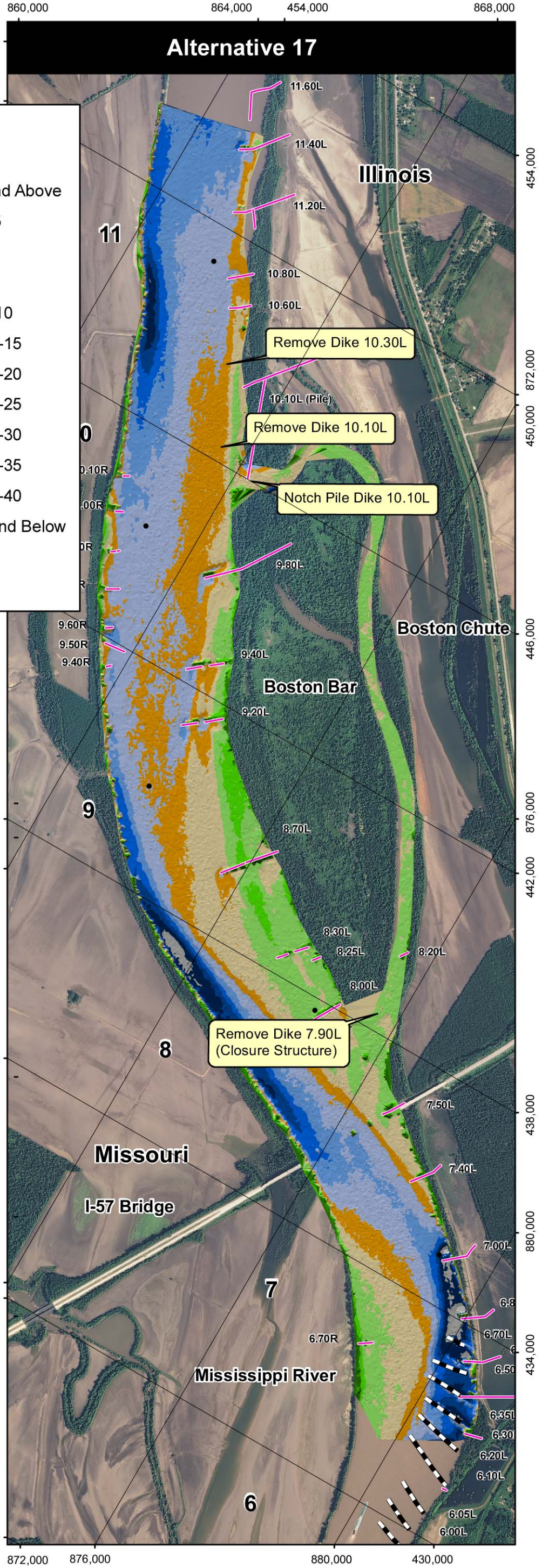
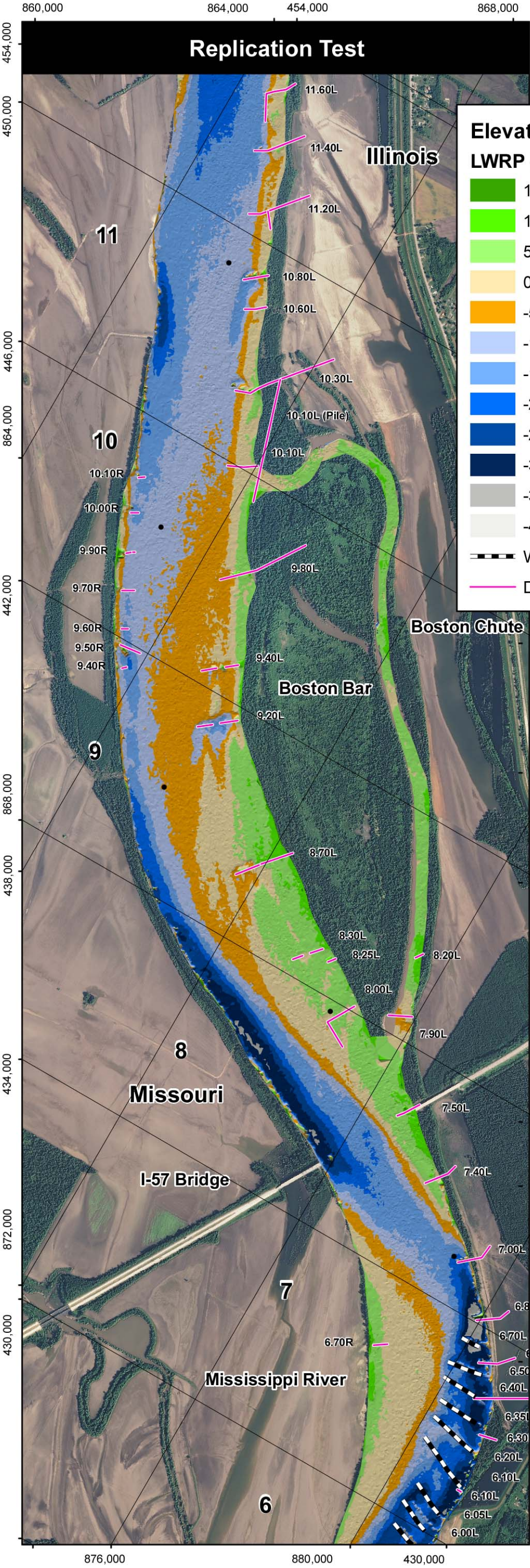


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NUMBER
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0 1,000 2,000 4,000
Feet

ALTERNATIVE 17
REMOVE & NOTCH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
	SUBMITTED BY: I. NGUYEN	CHECKED BY: A. COX
UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011	FILE DATES: OCTOBER 2011	APPROVED BY: R. DAVINROY, P.E.
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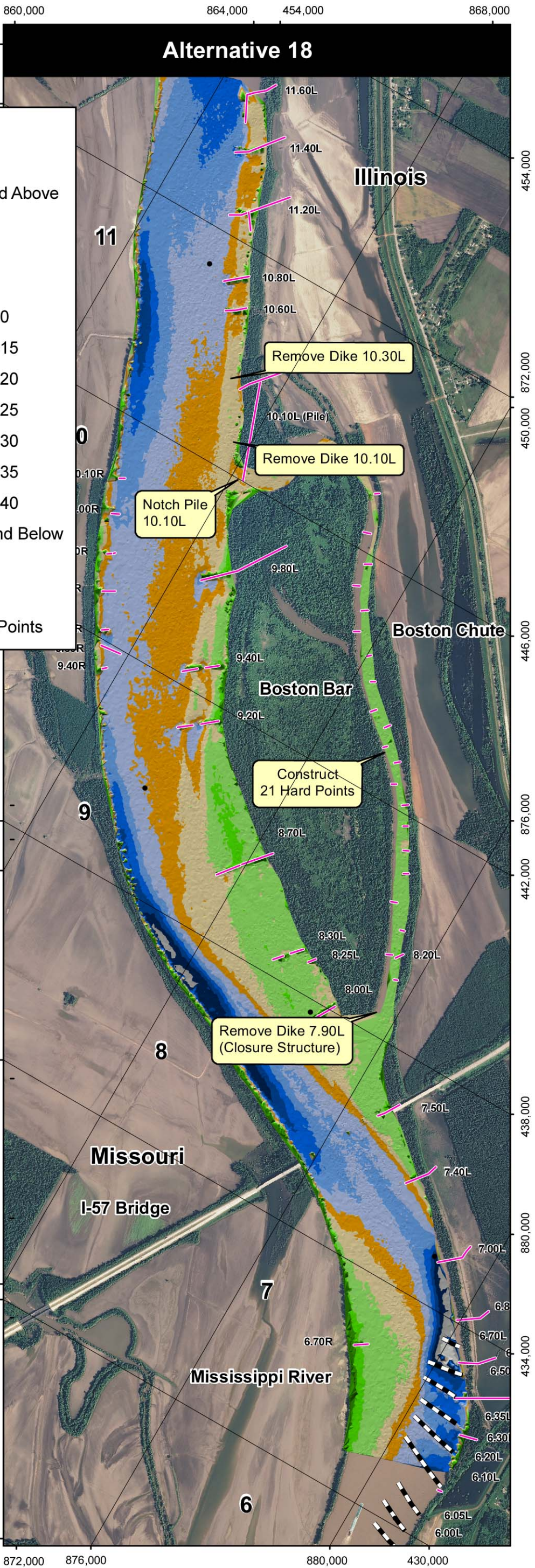
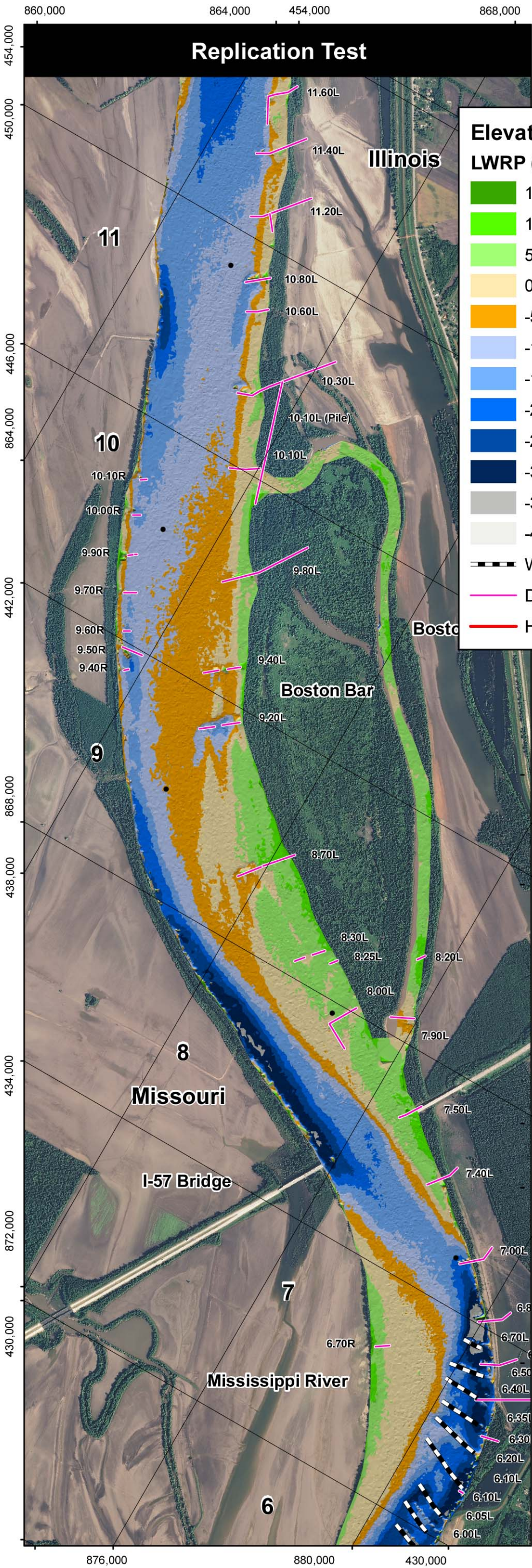
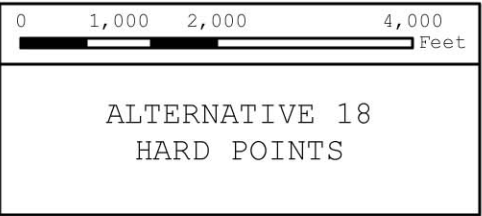


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U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
	REVIEWED BY: I. NGUYEN	CHECKED BY: A. COX
UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011	DATE: OCTOBER 2011	APPROVED BY: R. DAVINROY, P.E.
	FILE NAME: BOSTON BAR HSR MODEL.MXD	



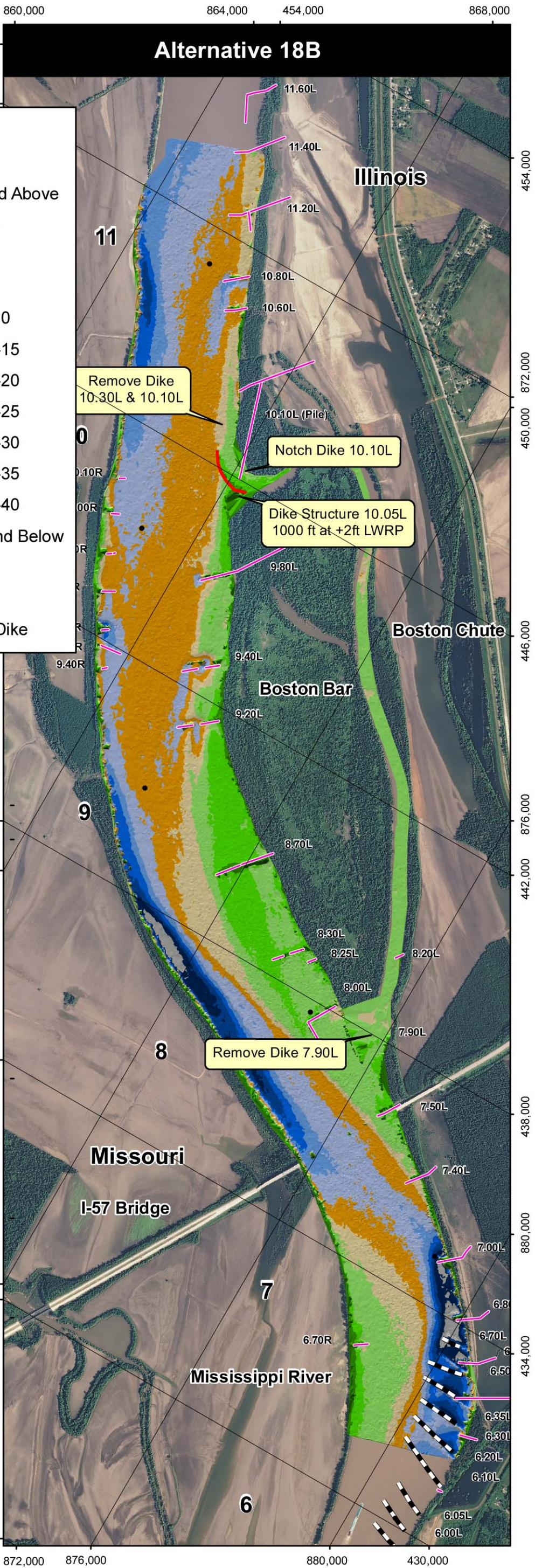
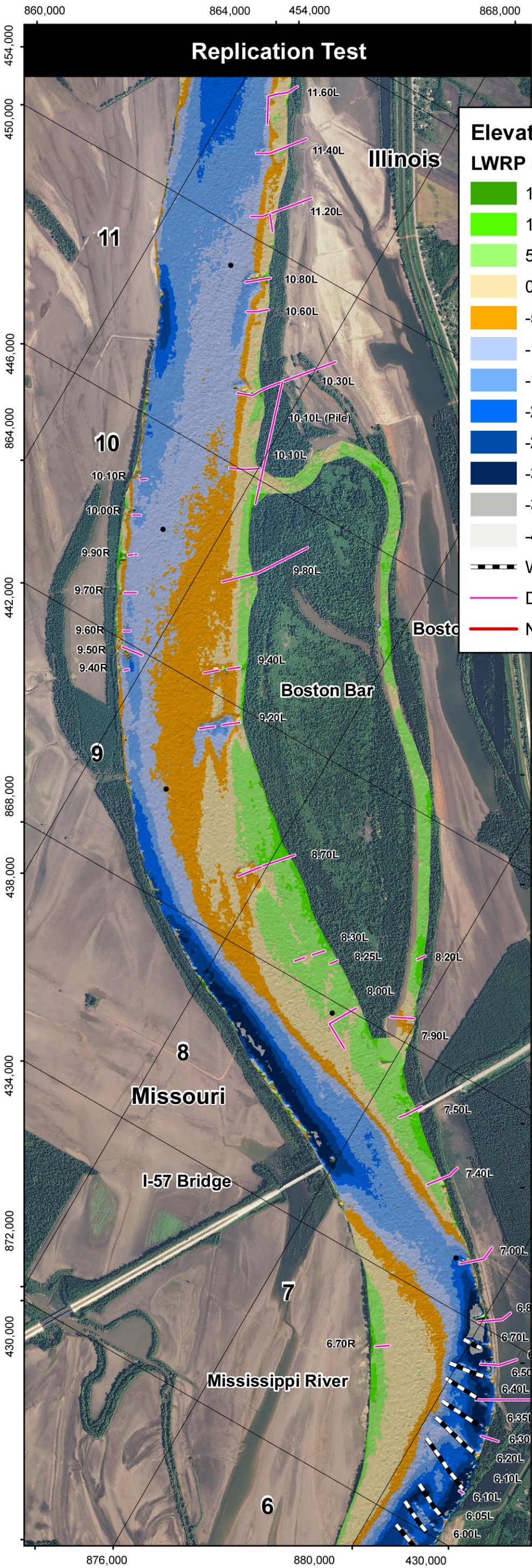
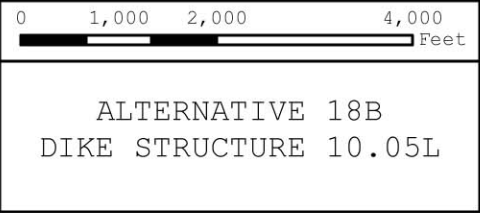


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NUMBER
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U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DRAWN BY: I. NGUYEN	DESIGNED BY: J. BROWN, P.E.
	REVIEWED BY: I. NGUYEN	CHECKED BY: A. COX
UPPER MISSISSIPPI BASIN BOSTON BAR HSR MODEL BIO-OP 2011	DATE: OCTOBER 2011	APPROVED BY: R. DAVINROY, P.E.
	FILE NAME: BOSTON BAR HSR MODEL.MXD	



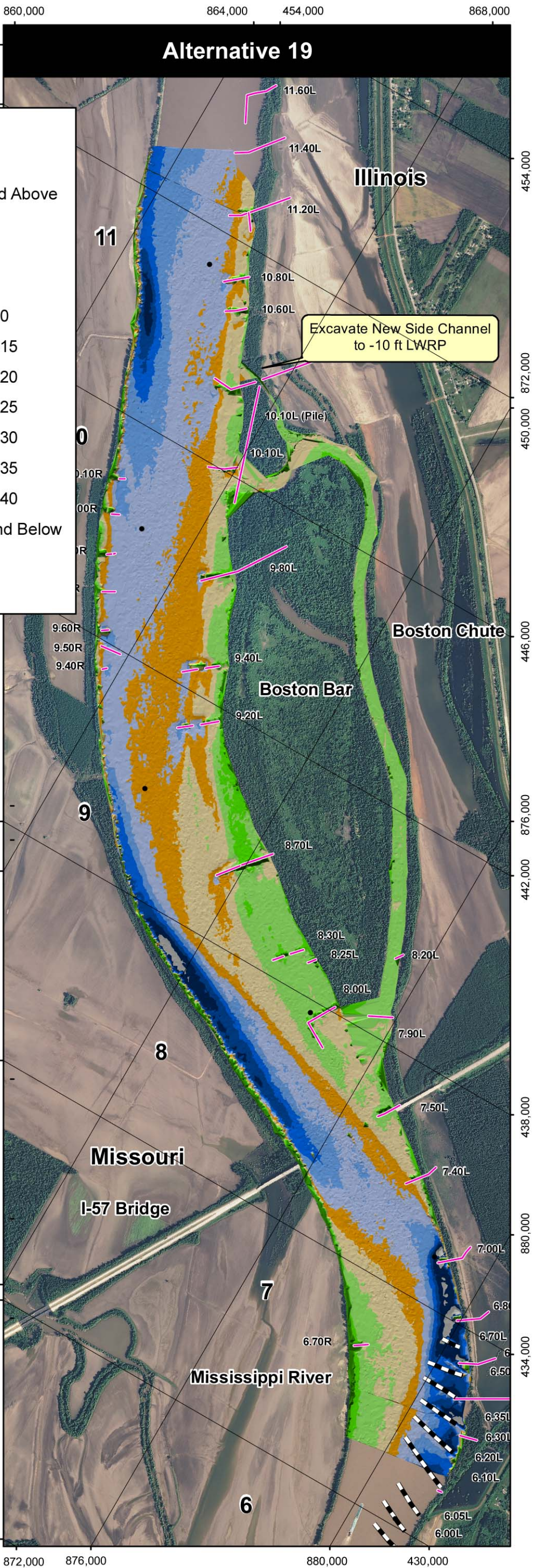
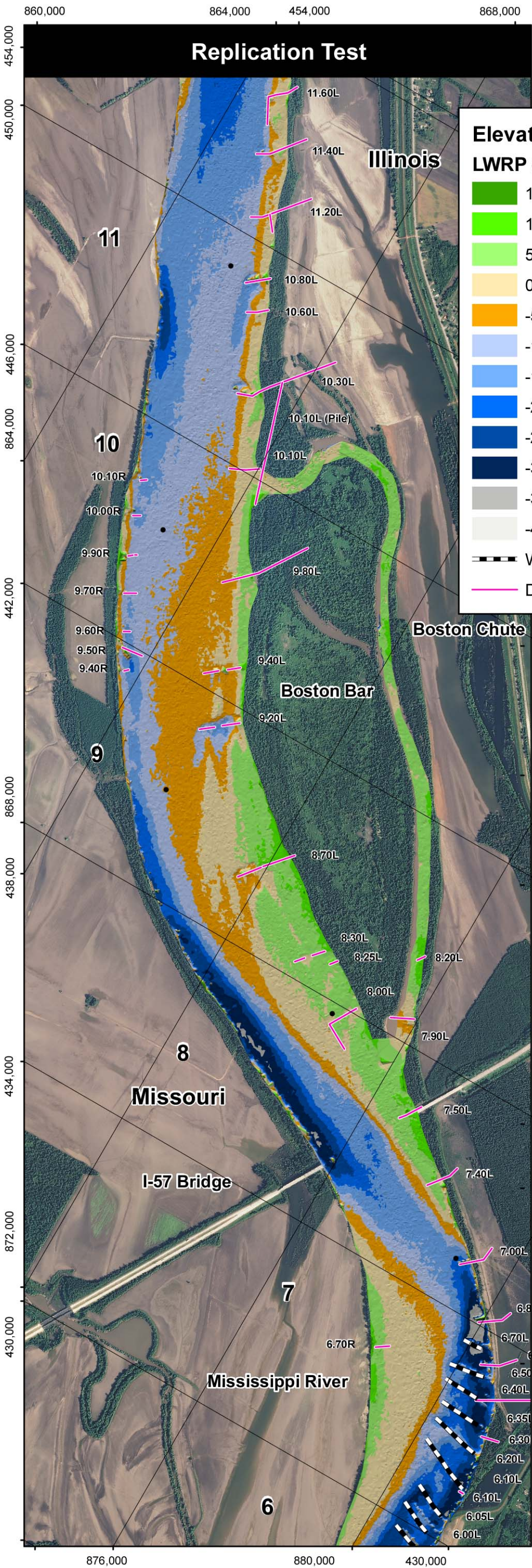
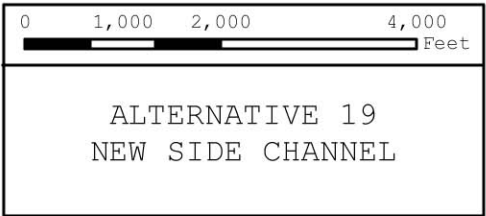


PLATE
NUMBER
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U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGN BY: I. NGUYEN	REVIEWED BY: J. BROWN, P.E.
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