

100% Design Plans for Old River Site and Connection Slough Sites

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-G2.DWG 8/27/2009 9:40 AM

INDEX OF DRAWINGS

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
		<u>GENERAL</u>
1	G1	TITLE SHEET
2	G2	INDEX OF DRAWINGS
3	G3	GENERAL NOTES, ABBREVIATIONS AND LEGEND
4	G4	PROJECT GENERAL PLAN
		<u>OLD RIVER</u>
5	C1	OLD RIVER, SITE PLAN
6	C2	OLD RIVER, DREDGING PLAN AND SECTION
7	C3	OLD RIVER, BARGE BEDDING PLAN AND SECTIONS
8	C4	OLD RIVER, BARGE – ROCK FILL PLAN AND SECTIONS
9	C5	OLD RIVER, SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 1
10	C6	OLD RIVER SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 2
11	C7	OLD RIVER, BOAT RAMP PLAN AND SECTION
12	C7.1	OLD RIVER, BOAT RAMP PILE PLAN
13	C7.2	OLD RIVER, BOAT RAMP FRAMING PLAN
14	C8	OLD RIVER, BOAT RAMP DETAILS AND SECTIONS, SHEET 1
15	C9	OLD RIVER, BOAT RAMP DETAILS AND SECTIONS, SHEET 2
16	C10	OLD RIVER, BOAT RAMP DETAILS AND SECTIONS, SHEET 3
17	C11	OLD RIVER, CATWALK PLAN AND ELEVATION, SHEET 1
18	C12	OLD RIVER, CATWALK PLAN AND ELEVATION, SHEET 2
19	C13	OLD RIVER, ELECTRICAL SITE PLAN
20	C14	OLD RIVER, BARGE GENERAL ARRANGEMENT PLAN
21	C15	OLD RIVER, BARGE GENERAL ARRANGEMENT ELEVATION
22	C16	OLD RIVER, GATE SCANTLINGS
23	C17	OLD RIVER, GATE FRAMING LAYOUT
24	C18	OLD RIVER, GATE STRUCTURAL DETAILS, SHEET 1
25	C19	OLD RIVER, GATE STRUCTURAL DETAILS, SHEET 2
26	C20	OLD RIVER, GATE STRUCTURAL DETAILS, SHEET 3
27	C21	OLD RIVER, GATE STRUCTURAL DETAILS, SHEET 4
28	C22	OLD RIVER, GATE STRUCTURAL DETAILS, SHEET 5
29	C23	OLD RIVER, GATE MECHANICAL DETAILS, SHEET 1
30	C24	OLD RIVER, GATE MECHANICAL DETAILS, SHEET 2
31	C25	OLD RIVER, END WALL SCANTLINGS
32	C26	OLD RIVER, AIDS TO NAVIGATION PLAN

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
		<u>CONNECTION SLOUGH</u>
33	C31	CONNECTION SLOUGH, SITE PLAN
34	C32	CONNECTION SLOUGH, DREDGING – PLAN AND SECTION
35	C33	CONNECTION SLOUGH, BARGE BEDDING PLAN
36	C34	CONNECTION SLOUGH, BARGE–ROCK FILL PLAN AND SECTIONS
37	C35	CONNECTION SLOUGH, SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION
38	C36	CONNECTION SLOUGH, BOAT RAMP PLAN AND SECTION
39	C36.1	CONNECTION SLOUGH, BOAT RAMP PILE PLAN
40	C36.2	CONNECTION SLOUGH, BOAT RAMP FRAMING PLAN
41	C37	CONNECTION SLOUGH, BOAT RAMP DETAILS AND SECTIONS, SHEET 1
42	C38	CONNECTION SLOUGH, BOAT RAMP DETAILS AND SECTIONS, SHEET 2
43	C39	CONNECTION SLOUGH, BOAT RAMP DETAILS AND SECTIONS, SHEET 3
44	C40	CONNECTION SLOUGH, CATWALK – PLAN AND ELEVATION
45	C41	CONNECTION SLOUGH, ELECTRICAL SITE PLAN
46	C42	CONNECTION SLOUGH, BARGE GENERAL ARRANGEMENT PLAN
47	C43	CONNECTION SLOUGH, BARGE GENERAL ARRANGEMENT ELEVATION
48	C44	CONNECTION SLOUGH, GATE SCANTLINGS
49	C45	CONNECTION SLOUGH, GATE FRAMING LAYOUT
50	C46	CONNECTION SLOUGH, GATE STRUCTURAL DETAILS, SHEET 1
51	C47	CONNECTION SLOUGH, GATE STRUCTURAL DETAILS, SHEET 2
52	C48	CONNECTION SLOUGH, GATE STRUCTURAL DETAILS, SHEET 3
53	C49	CONNECTION SLOUGH, GATE STRUCTURAL DETAILS, SHEET 4
54	C50	CONNECTION SLOUGH, GATE STRUCTURAL DETAILS, SHEET 5
55	C51	CONNECTION SLOUGH, GATE MECHANICAL DETAILS, SHEET 1
56	C52	CONNECTION SLOUGH, GATE MECHANICAL DETAILS, SHEET 2
57	C53	CONNECTION SLOUGH, END WALL SCANTLINGS
58	C54	CONNECTION SLOUGH, AIDS TO NAVIGATION PLAN

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
		<u>COMMON DETAILS</u>
59	C63	SHEET PILE WALL DETAILS, SHEET 1
60	C64	SHEET PILE WALL DETAILS, SHEET 2
61	C65	BOAT RAMP PLAN AND SECTIONS
62	C66	BOAT RAMP DETAILS
63	C67	BOARDING FLOAT PLAN AND ELEVATION
64	C68	BOARDING FLOAT DETAILS
65	C69	CATWALK DETAILS, SHEET 1
66	C70	CATWALK DETAILS, SHEET 2
67	C71	CATWALK DETAILS, SHEET 3
68	C72	CATWALK DETAILS, SHEET 4
69	C73	CATWALK DETAILS, SHEET 5
70	C74	CATWALK DETAILS, SHEET 6
71	C75	AIDS TO NAVIGATION DETAILS, SHEET 1
72	C76	AIDS TO NAVIGATION DETAILS, SHEET 2
73	C77	UTILITY YARD DETAILS
74	C78	OPERATOR HOUSE EQUIPMENT AND DETAILS
75	C79	ELECTRICAL SYSTEM DIAGRAM
76	C80	HYDRAULICS SYSTEM DIAGRAM
77	C81	DREDGED MATERIAL DISPOSAL SITE
78	C82	MISCELLANEOUS DETAILS

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San Luis & Delta-Mendota Water Authority
842 6th Street, Suite 7
PO Box 2157
Los Banos, California 93635

APPROVED _____
FRANCY C. MIZUNO, PE C35136
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Metropolitan Water District of Southern California





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(925) 944-5411

DSGN	TDB	DR	AB	CHK	GTH
JOB NO. 6097-03		SUBMITTED BY RMR			

TWO GATE FISH PROTECTION PLAN	DATE 08/31/09
INDEX OF DRAWINGS	SHEET 2 OF 78

G2

GENERAL NOTES

1. BATHYMETRY SURVEYED BY ENVIRONMENTAL DATA SOLUTIONS ON JUNE 23, 2008 AND REPRESENTS CONDITIONS ON THAT DATE.
2. KING PILE TYPE (36 INCH OD x 0.75 INCH WT) AND SPACING SHOWN ON THE PLANS WILL BE ADJUSTED ON THE BASIS OF IN-SITU SOIL BORING DATA AS SOON AS THIS INFORMATION BECOMES AVAILABLE.

VERTICAL DATUM

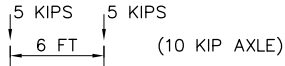
PROJECT ELEVATIONS ARE BASED ON NAVD’88.

HORIZONTAL DATUM

PROJECT COORDINATES ARE BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM NAD 1983, ZONE 3.

DESIGN CONDITIONS

LIVE LOADS: CATWALK: 100 PSF
BOAT RAMP: 5,000 LBS
CONCENTRATED WHEEL LOAD (TOTAL 2 PER AXLE)



WATER ELEVATION: GATES AND SHEET PILES/ KING PILES/ ABUTMENT WALL:
DIFFERENTIAL WATER ELEVATION = 3.6 FT

EARTHQUAKE: QUASI – STATIC LATERAL SEISMIC
ACCELERATION, SA = 0.3g BASED ON 2006 IBC

CURRENT: CURRENT OF 2 KNOTS (3.4 FT/SEC) FREE STREAM VELOCITY

SHIP IMPACT: DOLPHINS/MONOPILES: ACCIDENTAL IMPACT 95 KIP LOAD
AT EL +7.0’

OPERATING LOAD: GATE/ FRAME: HYDRAULIC ACTUATORS (PISTON FORCES)

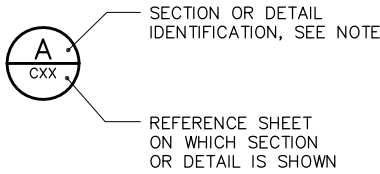
OLD RIVER SITE $F_1 = +226.2 \text{ KIP}$ $F_2 = -149.2 \text{ KIP}$
 -149.2 KIP $+226.2 \text{ KIP}$
 (COMPRESSION +, TENSION –)

CONNECTION $F_1 = +157.1 \text{ KIP}$ $F_2 = -109.6 \text{ KIP}$
SLOUGH SITE -109.6 KIP $+157.1 \text{ KIP}$
 (COMPRESSION +, TENSION –)

ABBREVIATIONS

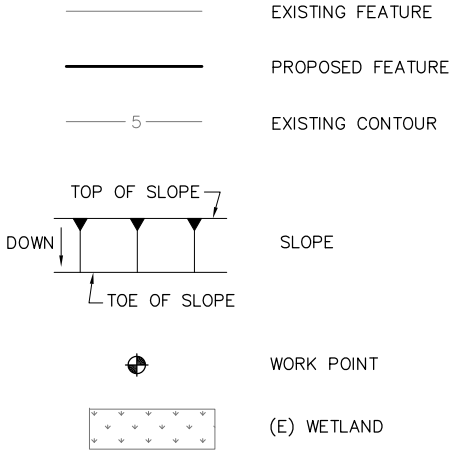
&	AND	NAD	NORTH AMERICAN DATUM
#	NUMBER	NAVD	NORTH AMERICAN VERTICAL DATUM
%	PERCENT	NTS	NOT TO SCALE
APPROX	APPROXIMATE	OC	ON CENTER
ASTM	ASTM INTERNATIONAL	OD	OUTSIDE DIAMETER
C/C	CENTER TO CENTER	OG	ORIGINAL GROUND
CJP	COMPLETE JOINT PENETRATION	OPP	OPPOSITE
⌀	CENTER LINE	PC/PS	PRECAST/PRESTRESSED
CIP	CAST-IN-PLACE	PL	PLATE
CLR	CLEAR	PJP	PARTIAL JOINT PENETRATION
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUOUS	REF	REFERENCE
DIA, ⌀	DIAMETER	REINF	REINFORCEMENT
DIMS	DIMENSIONS	SA	SEISMIC ACCELERATION
DWG	DRAWING	SCH	SCHEDULE
DWT	DEAD WEIGHT	SIM	SIMILAR
(E)	EXISTING	SPA	SPACES
EL	ELEVATION	STD	STANDARD
EJ	EXPANSION JOINT	STIF	STIFFENER
EW	EACH WAY	SYMM	SYMMETRICAL
FG	FINISH GRADE	THRU	THROUGH
FT	FOOT OR FEET	TYP	TYPICAL
GALV	GALVANIZED	UHMW	ULTRA HIGH MOLECULAR WEIGHT
H	HORIZONTAL	UON	UNLESS OTHERWISE NOTED
HD	HEAD	V	VERTICAL
HDPE	HIGH DENSITY POLYETHYLENE	VC	VERTICAL CURVE
HW	HIGH WATER	WP	WORK POINT
IBC	INTERNATIONAL BUILDING CODE	WT	WALL THICKNESS
ID	INSIDE DIAMETER	W/	WITH
INFO	INFORMATION		
LB	POUND		
LW	LOW WATER		
MAX	MAXIMUM		
MFG	MANUFACTURING		
MIN	MINIMUM		

CROSS-REFERENCE LEGEND



NOTE: LETTER INDICATES SECTION; NUMBER INDICATES DETAIL. WHERE THERE IS NO REFERENCE SHEET INDICATED, IT MEANS THE DETAIL OR SECTION IS TAKEN AND SHOWN ON THE SAME SHEET.

LEGEND



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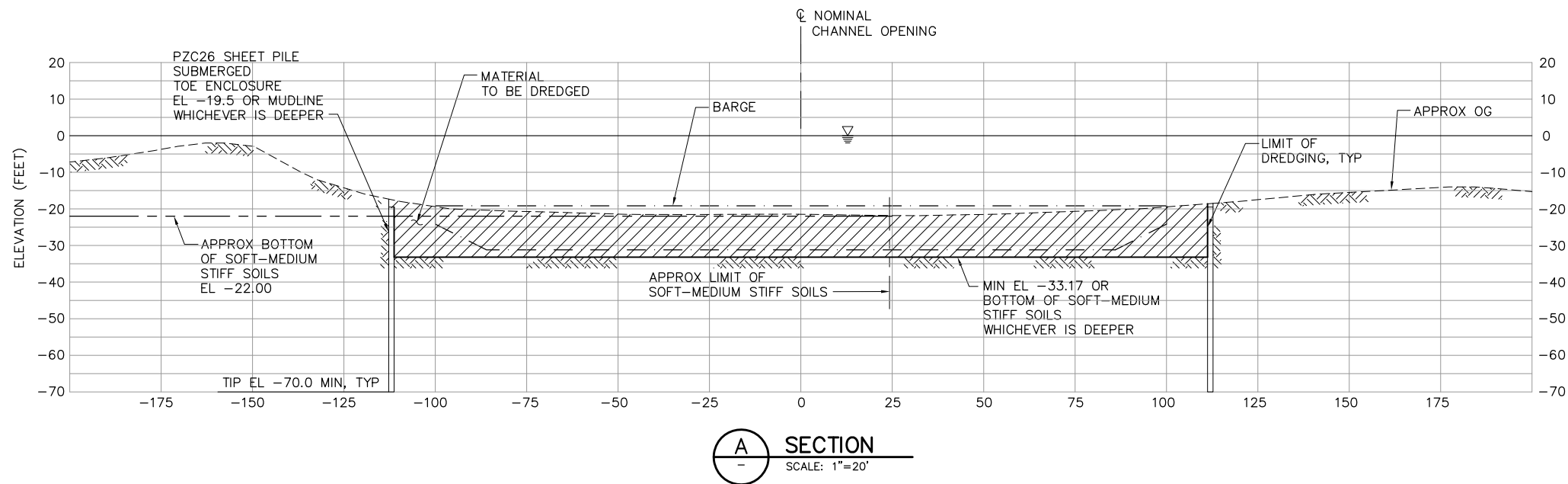
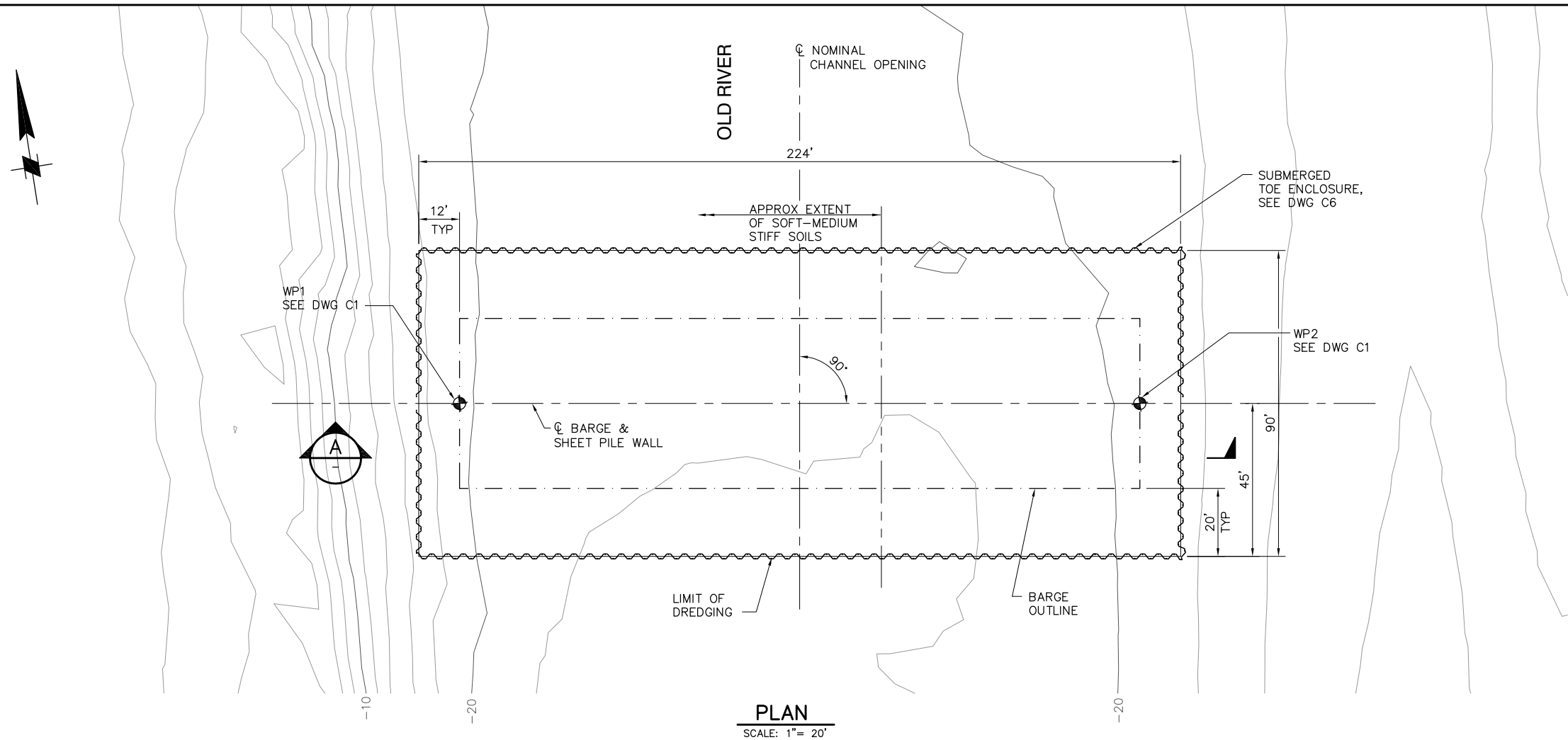
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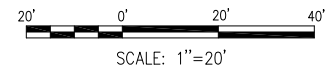
TWO GATE FISH PROTECTION PLAN	DATE 08/31/09
	SHEET 3 OF 78
ABBREVIATIONS, LEGEND AND GENERAL NOTES	G3

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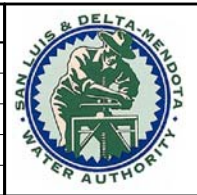
NOTE:
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NOT SHOWN FOR CLARITY.



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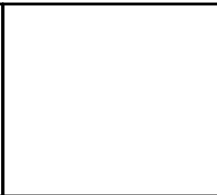
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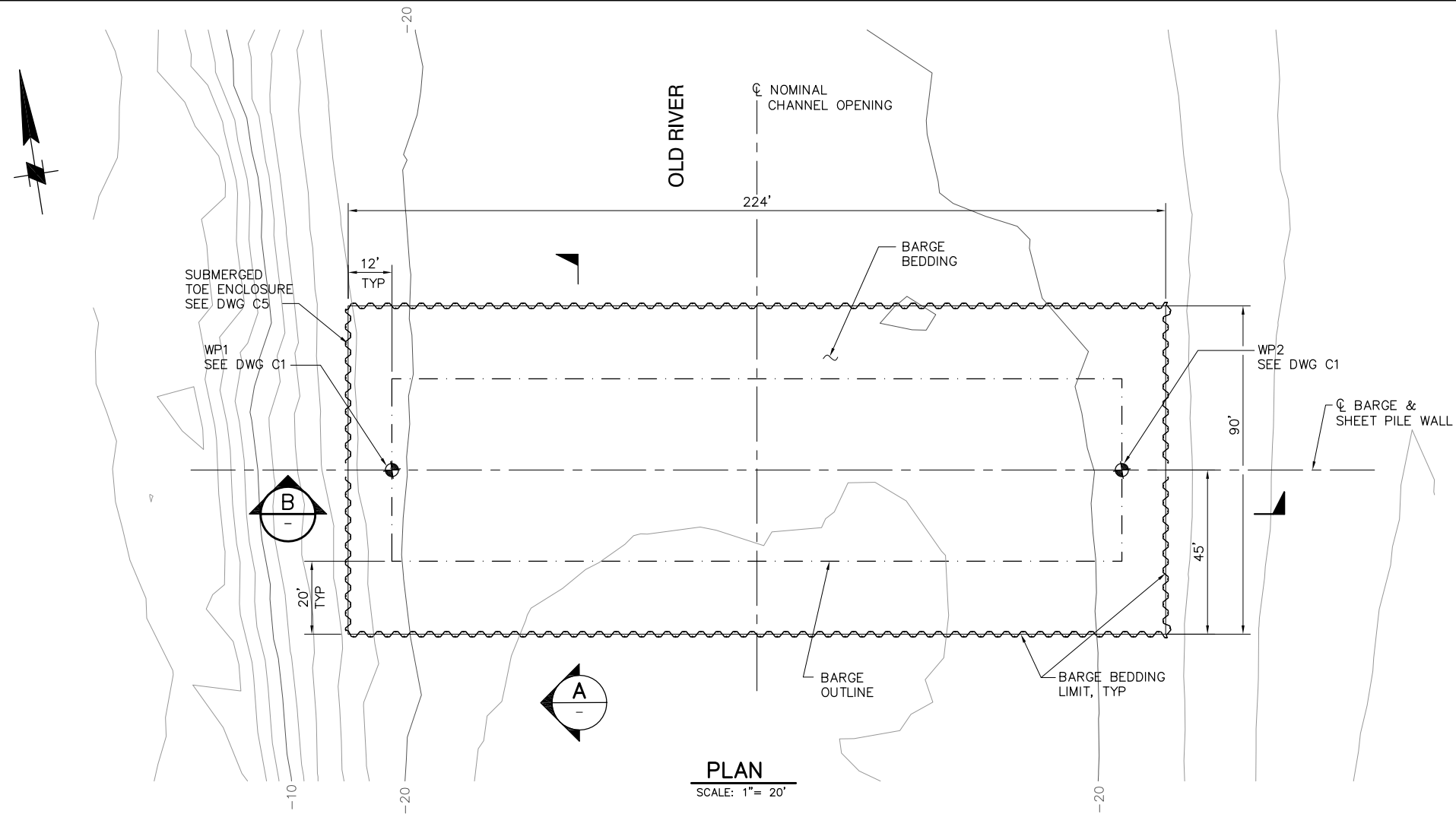
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TWO GATE FISH PROTECTION PLAN

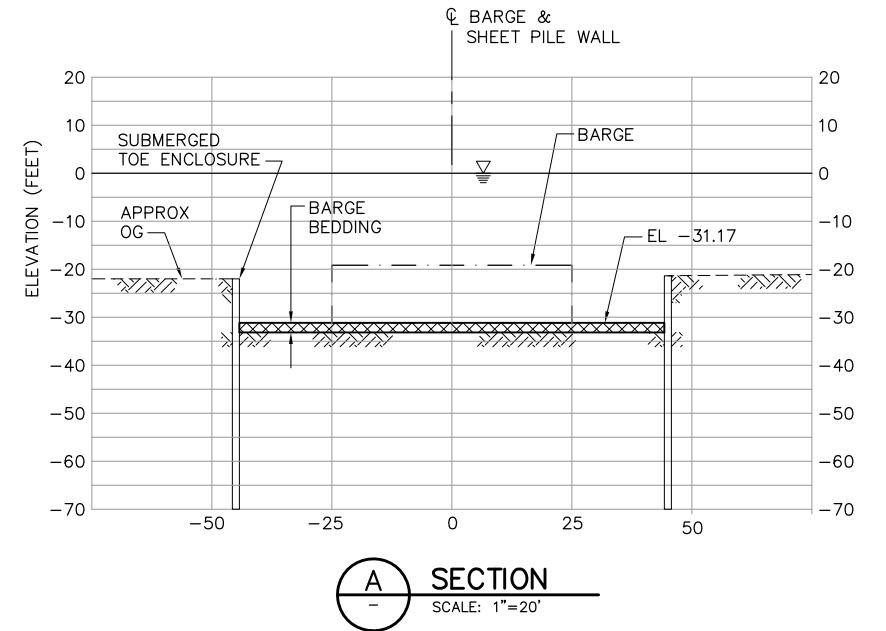
OLD RIVER
DREDGING PLAN AND SECTION

DATE	08/31/09
SHEET	6 OF 78
C2	

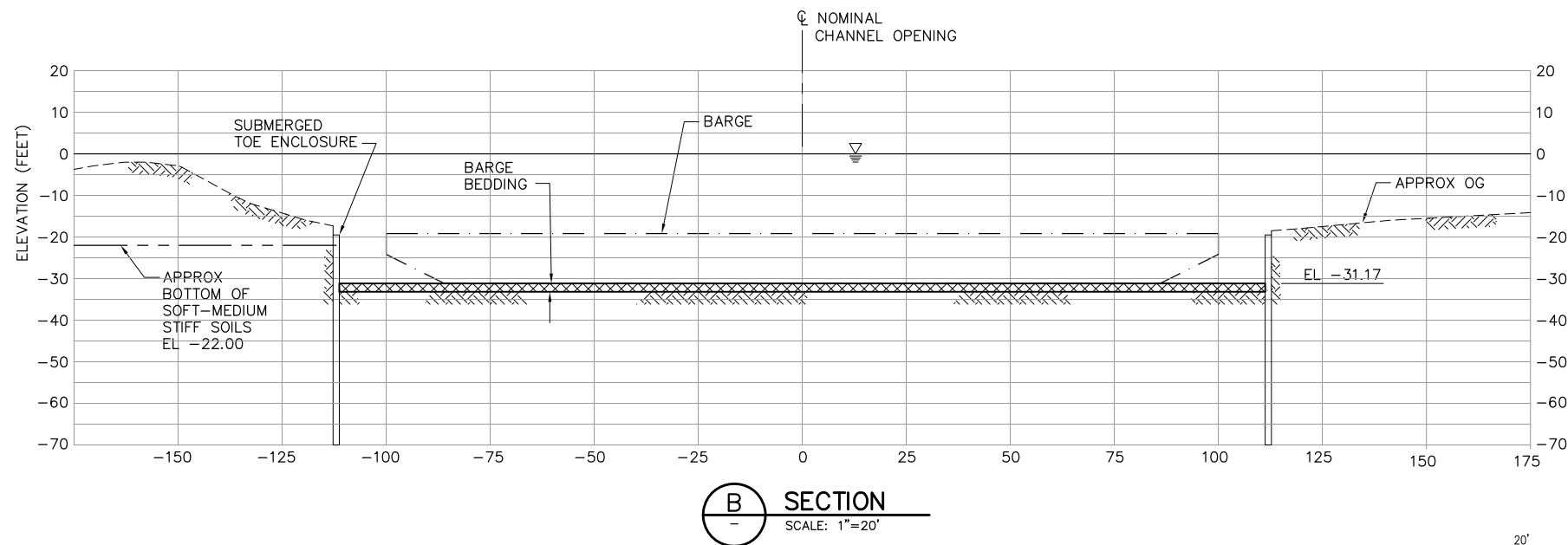
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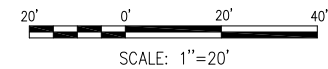
PLAN
SCALE: 1"= 20'



SECTION
SCALE: 1"=20'



SECTION
SCALE: 1"=20'



SCALE: 1"=20'

NOTE:
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TWO GATE FISH PROTECTION PLAN

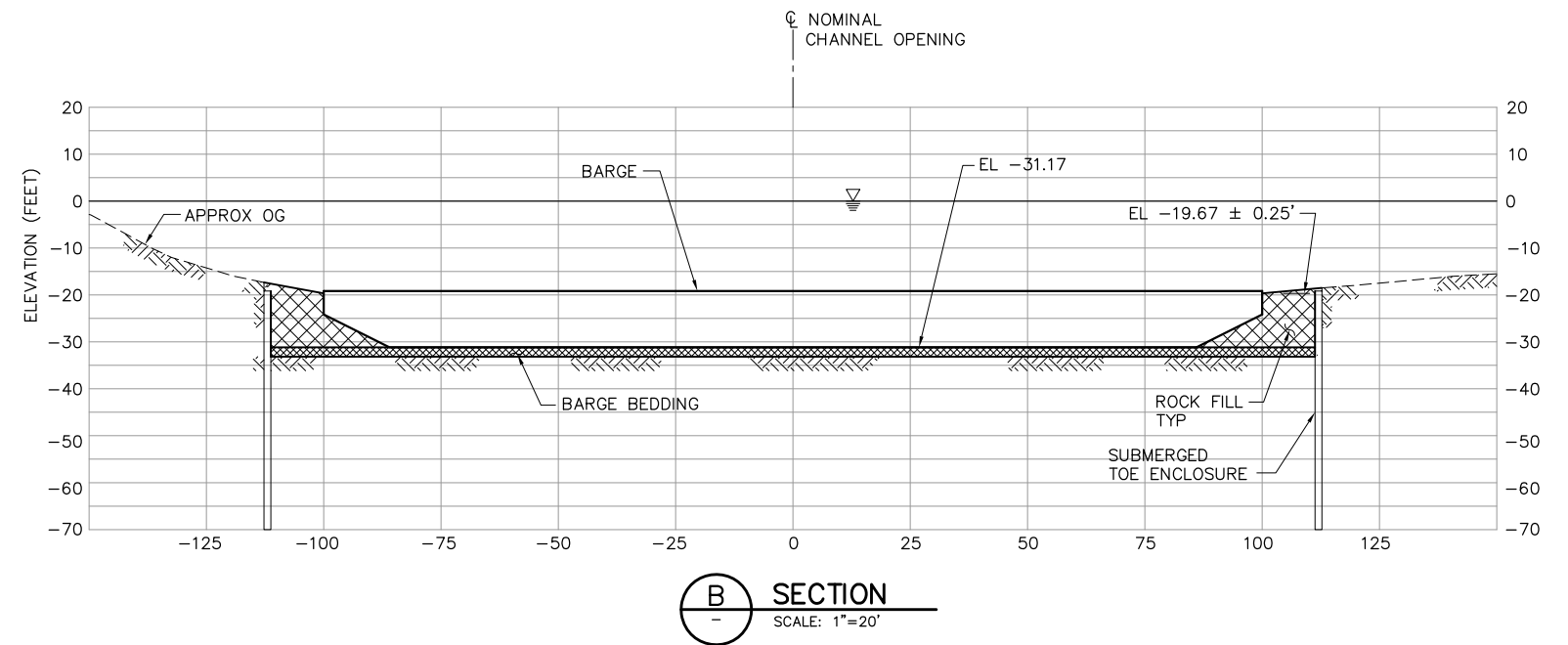
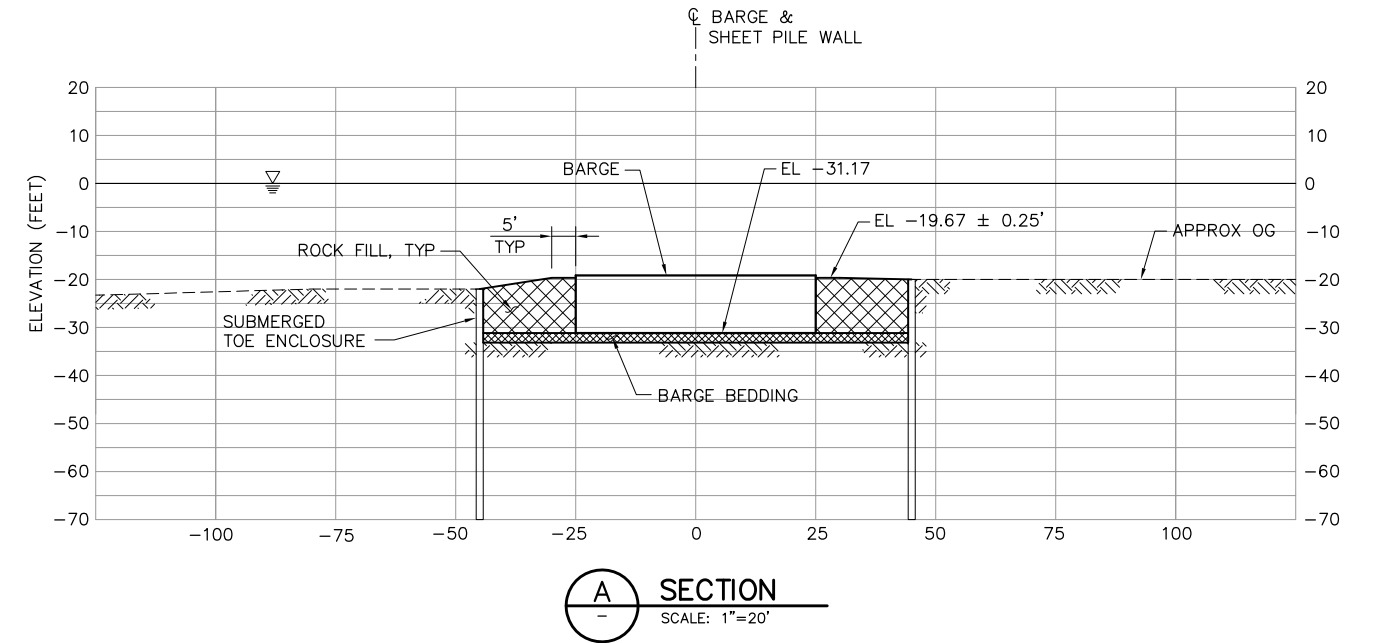
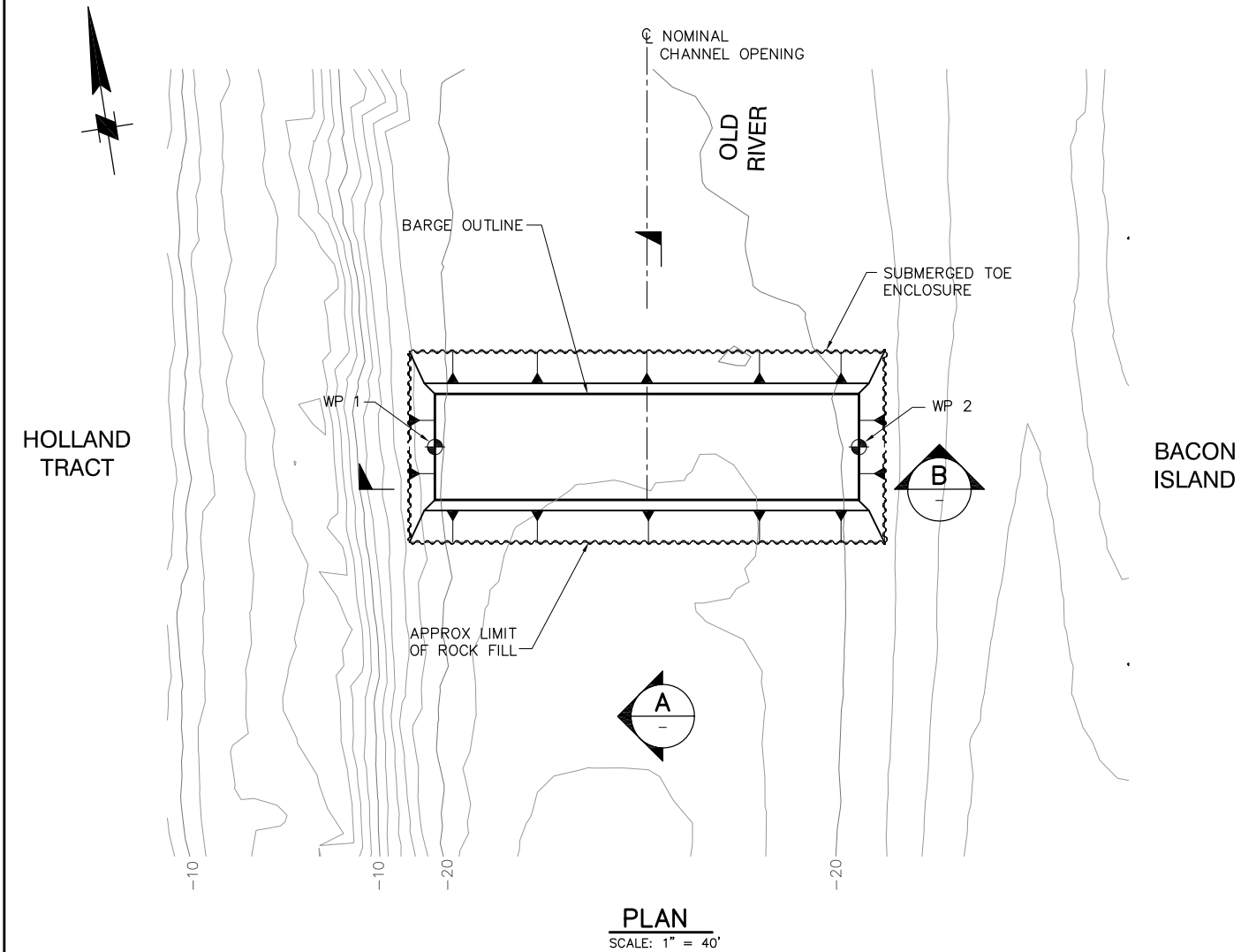
OLD RIVER
BARGE BEDDING PLAN AND SECTIONS

DATE 08/31/09

SHEET 7 OF 78

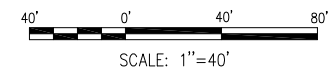
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NOTES:

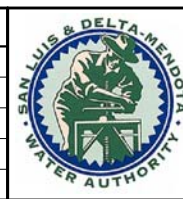
- KING PILES AND SHEET PILES NEAR BARGE SHALL BE PLACED BEFORE ROCK LOCKING FILL.
- GATE AND ALL OTHER FEATURES NOT SHOWN FOR CLARITY



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TWO GATE FISH PROTECTION PLAN

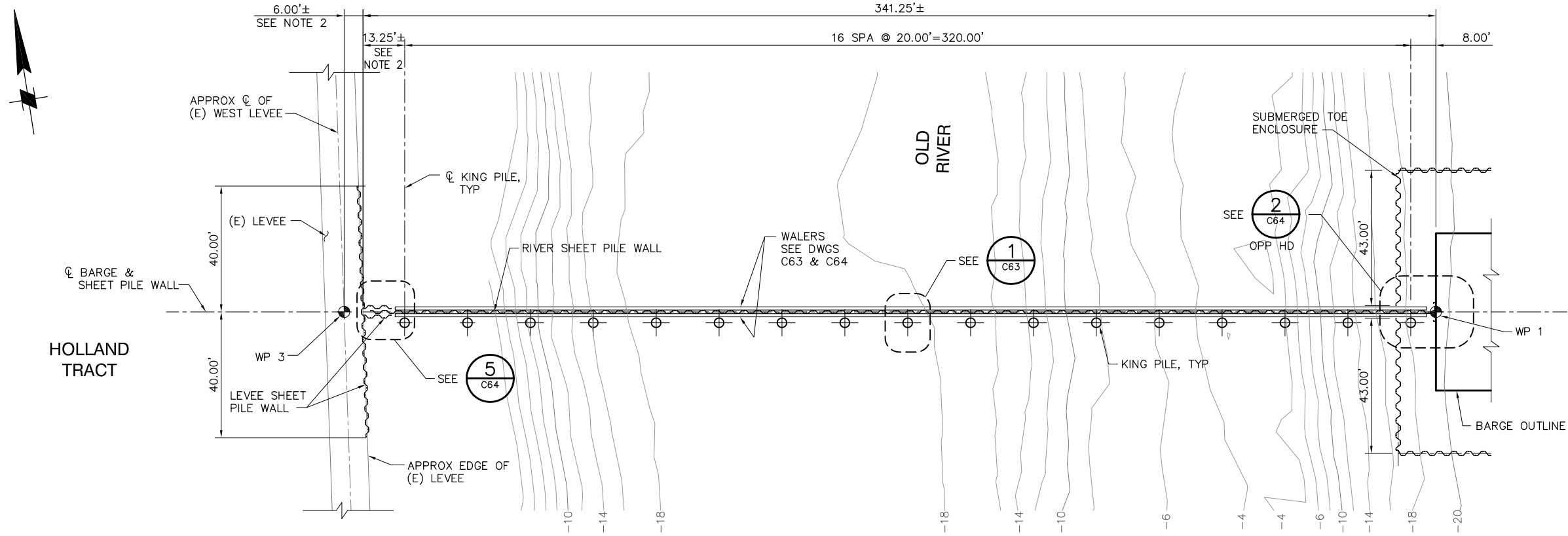
DATE 08/31/09

SHEET 8 OF 78

OLD RIVER
BARGE - ROCK FILL
PLAN AND SECTIONS

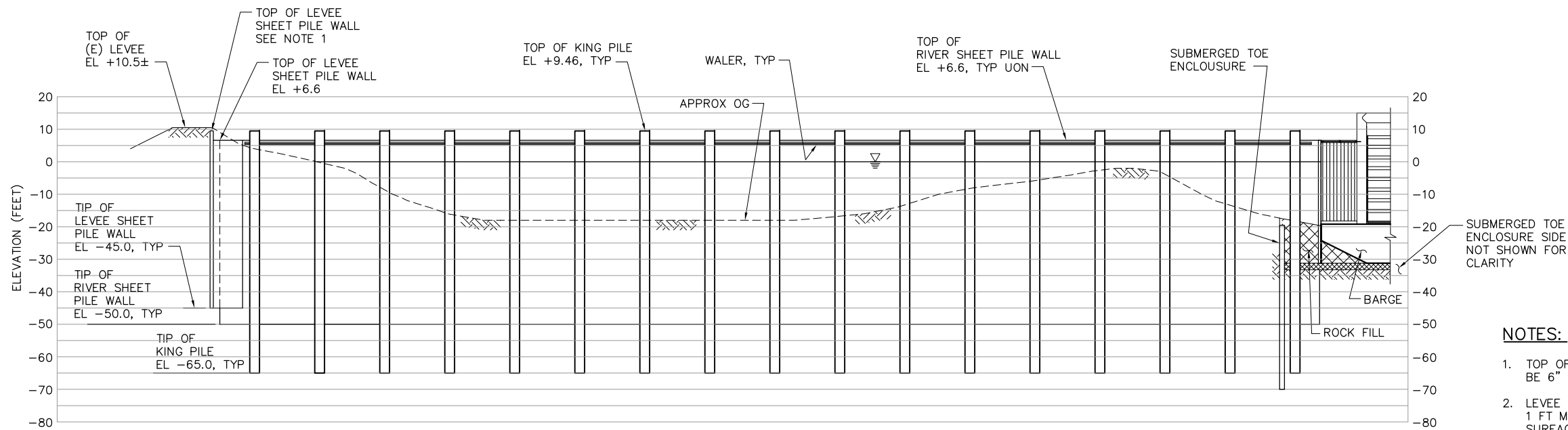
C4

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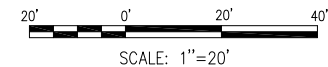
PLAN
SCALE: 1"= 20'

NOTE:
CATWALK NOT SHOWN
FOR CLARITY.



ELEVATION
SCALE: 1"= 20'

NOTE:
CATWALK NOT SHOWN
FOR CLARITY.



SCALE: 1"=20'

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NOTES:

1. TOP OF LEVEE SHEET PILE WALL SHALL BE 6" BELOW TOP OF (E) LEVEE UON.
2. LEVEE SHEET PILE WALL TO BE LOCATED 1 FT MIN OFF THE EDGE OF (E) ROAD SURFACE.

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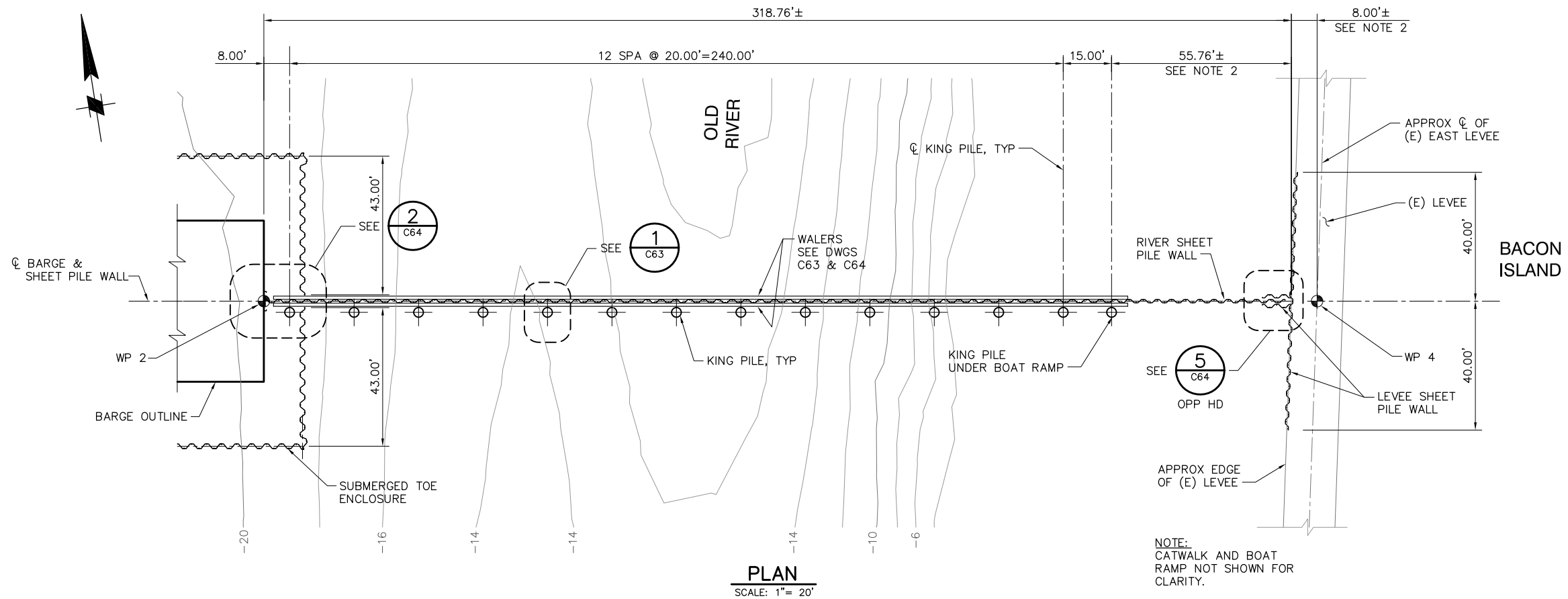
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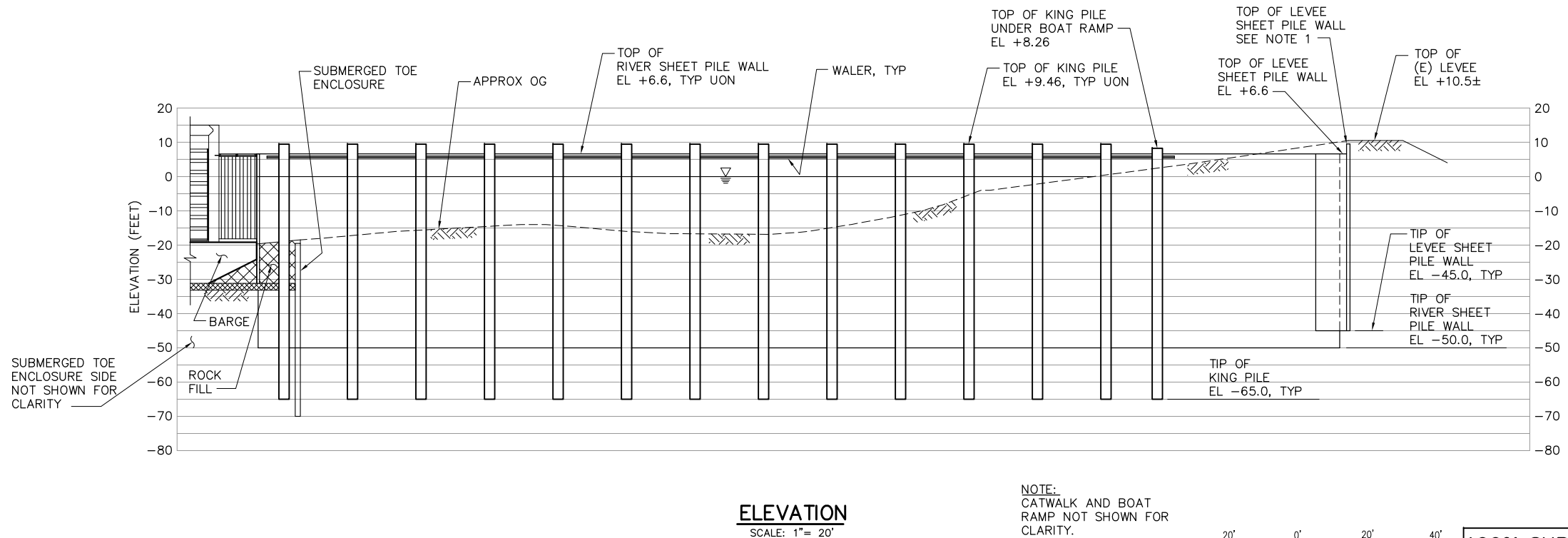
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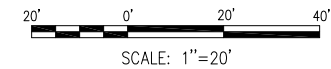
TWO GATE FISH PROTECTION PLAN	DATE 08/31/09
	SHEET 9 OF 78
OLD RIVER SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 1	C5



NOTE:
CATWALK AND BOAT
RAMP NOT SHOWN FOR
CLARITY.



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RAMP NOT SHOWN FOR
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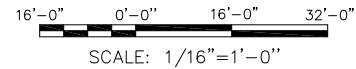
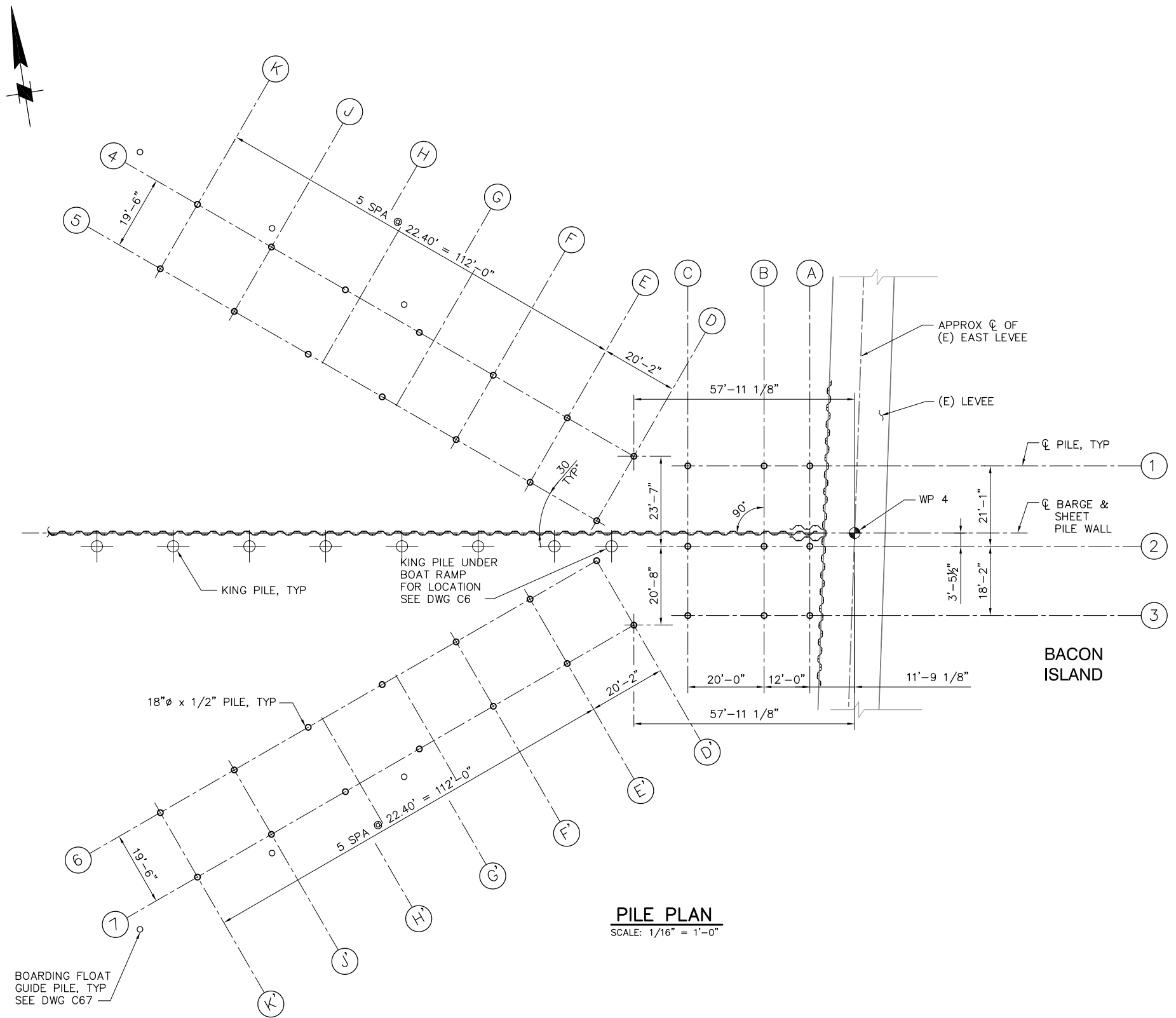
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TWO GATE FISH PROTECTION PLAN	DATE 08/31/09
OLD RIVER SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 2	SHEET 10 OF 78
C6	

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100% SUBMITTAL

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TWO GATE FISH PROTECTION PLAN

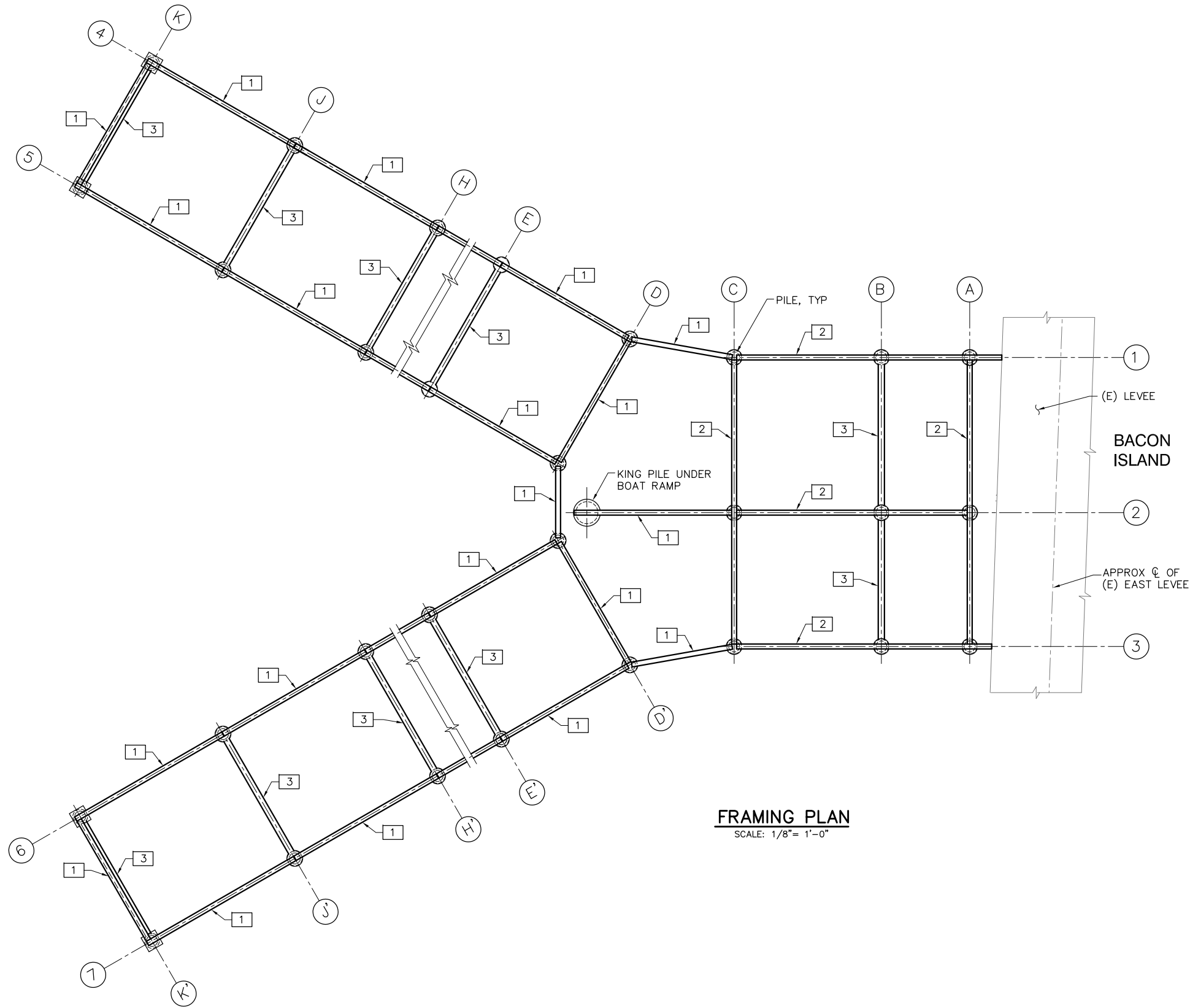
DATE 08/31/09

SHEET 12 OF 78

OLD RIVER
BOAT RAMP PILE PLAN

C7.1

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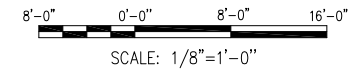
FRAMING PLAN
SCALE: 1/8"=1'-0"

LEGEND:

- 1 HSS 16x8x1/2
- 2 HSS 16x8x1/2 CONTINUOUS THRU SUPPORT
- 3 10"Ø XSTRONG PIPE TRANSVERSE "CAP" BEAM

NOTE:

LEVEE SHEET PILE WALL, RIVER SHEET PILE WALL AND KING PILES NOT SHOWN FOR CLARITY.



100% SUBMITTAL

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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



San Luis & Delta-Mendota Water Authority
842 6th Street, Suite 7
PO Box 2157
Los Banos, California 93635

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FRANCY C. MIZUNO, PE C35136
San Luis & Delta-Mendota Water Authority

APPROVED _____
DENNIS G. MAJORS PE C21297
Metropolitan Water District of Southern California

 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
DSGN	JMB	DR	EP/AB
JOB NO.	6097-03	SUBMITTED BY	RMR

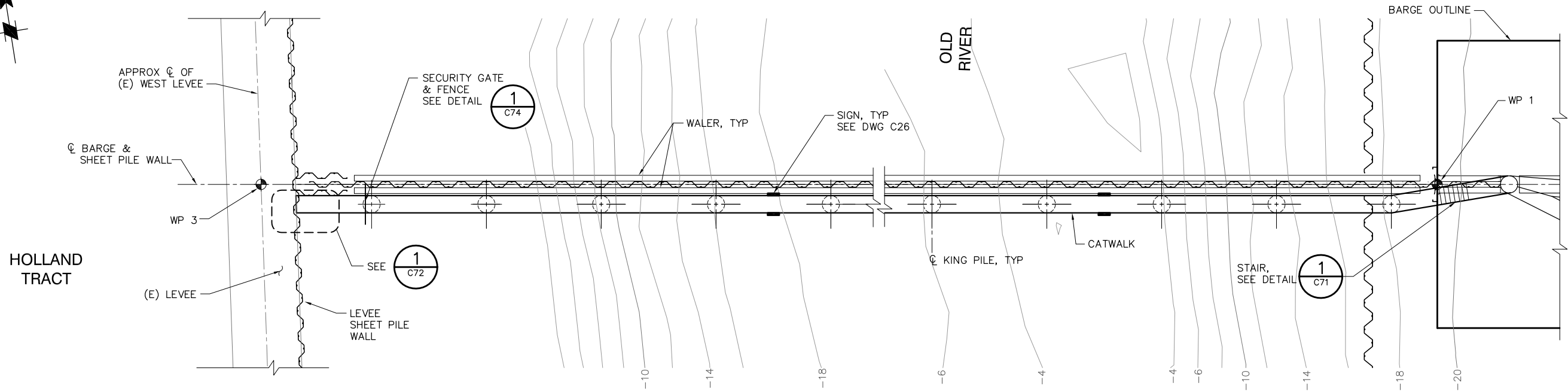
TWO GATE FISH PROTECTION PLAN		DATE 08/31/09
OLD RIVER BOAT RAMP FRAMING PLAN		SHEET 13 OF 78
		C7.2

P

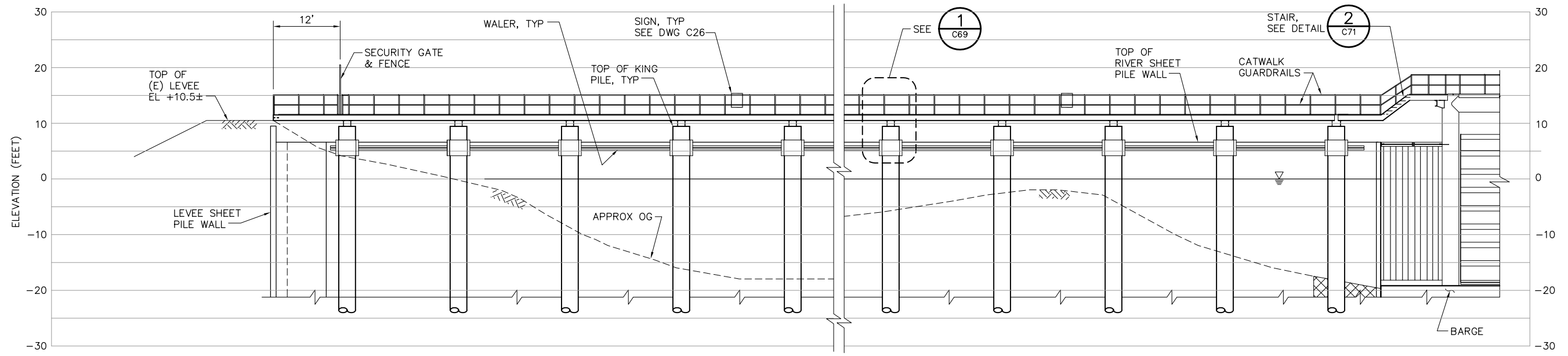
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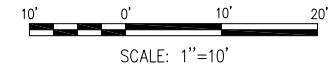
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PLAN
SCALE: 1"= 10'



ELEVATION
SCALE: 1"= 10' **NOTE:** SUBMERGED TOE ENCLOSURE NOT SHOWN FOR CLARITY.



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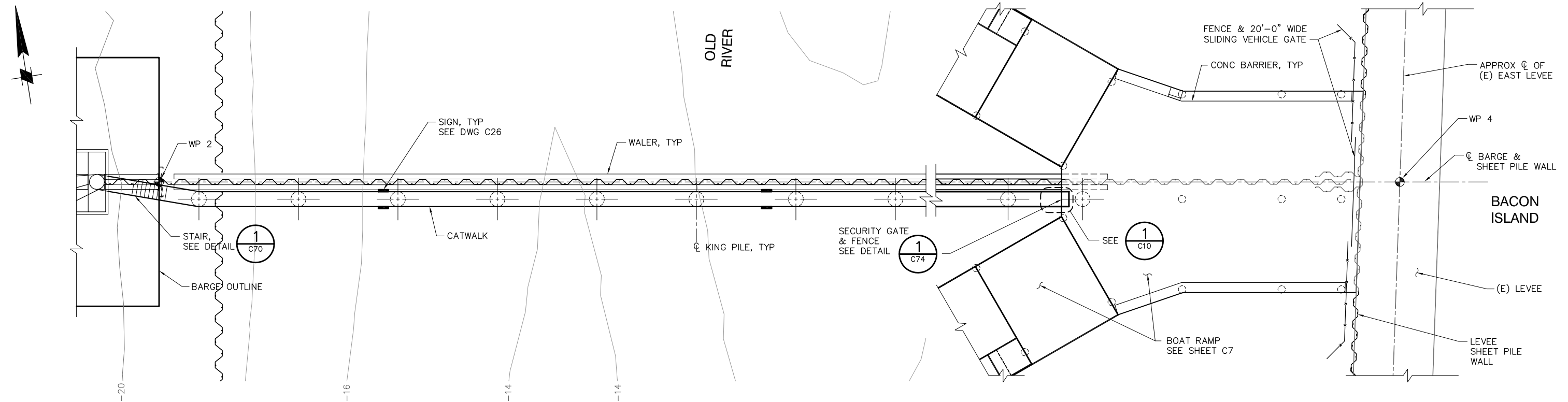


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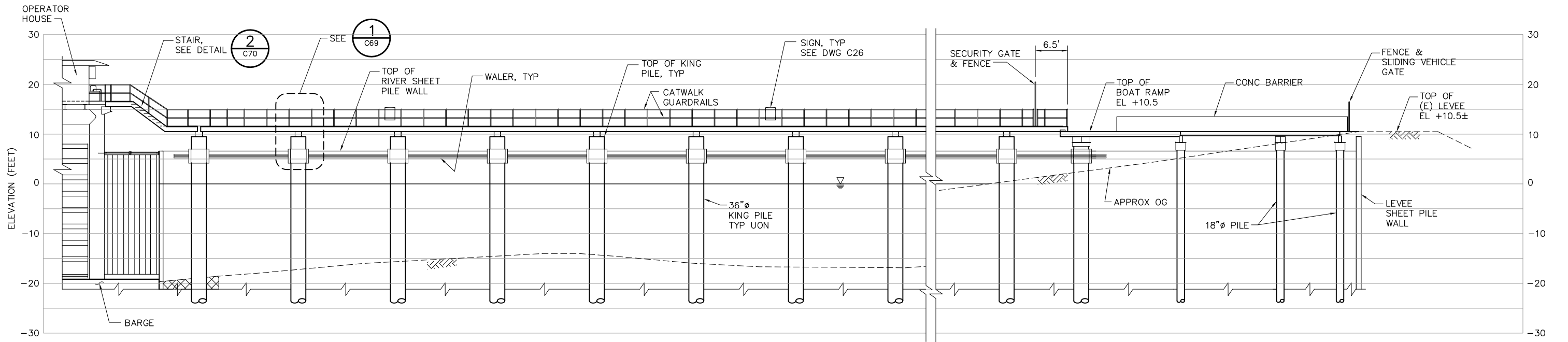
DSGN	JMB	DR	EP/AB	CHK	TDB
JOB NO.	SUBMITTED BY				
6097-03	RMR				

TWO GATE FISH PROTECTION PLAN	DATE 08/31/09
OLD RIVER CATWALK PLAN AND ELEVATION, SHEET 1	SHEET 17 OF 78
C11	

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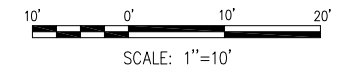


PLAN
SCALE: 1"= 10'



ELEVATION
SCALE: 1"= 10'

NOTE: SUBMERGED TOE ENCLOSURE NOT SHOWN FOR CLARITY.



SCALE: 1"=10'

100% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
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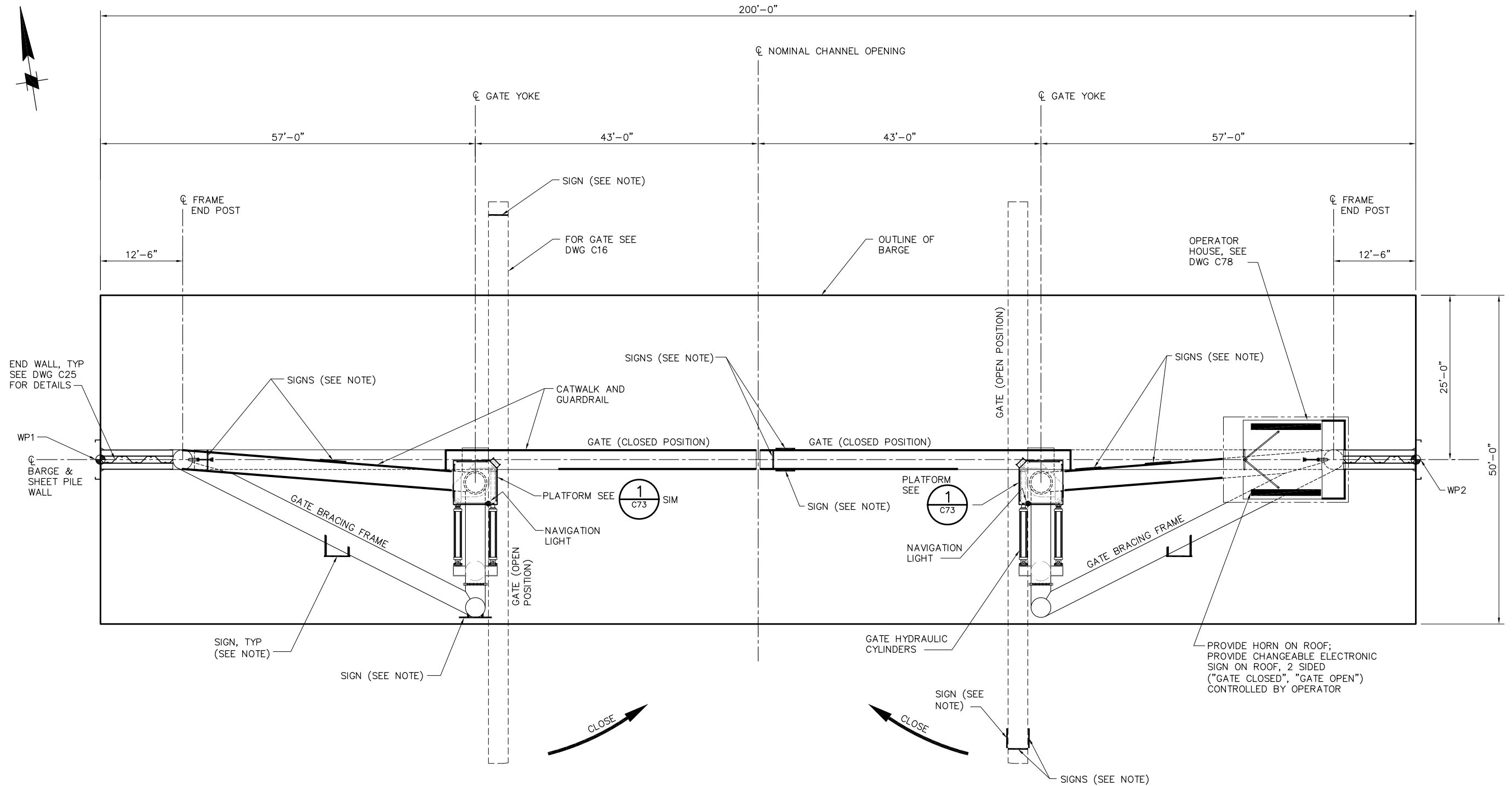
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JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB		

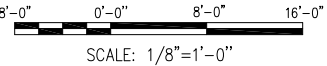
TWO GATE FISH PROTECTION PLAN		DATE 08/31/09
OLD RIVER CATWALK PLAN AND ELEVATION, SHEET 2		SHEET 18 OF 78
		C12

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BARGE PLAN
SCALE: 1/8"=1'-0"

NOTE:
FOR SIGNAGE, SEE DRAWING C26.



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JOB NO.	SUBMITTED BY				
6097-03	RMR				

TWO GATE FISH PROTECTION PLAN OLD RIVER BARGE GENERAL ARRANGEMENT PLAN	DATE 08/31/09
	SHEET 20 OF 78
C14	

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