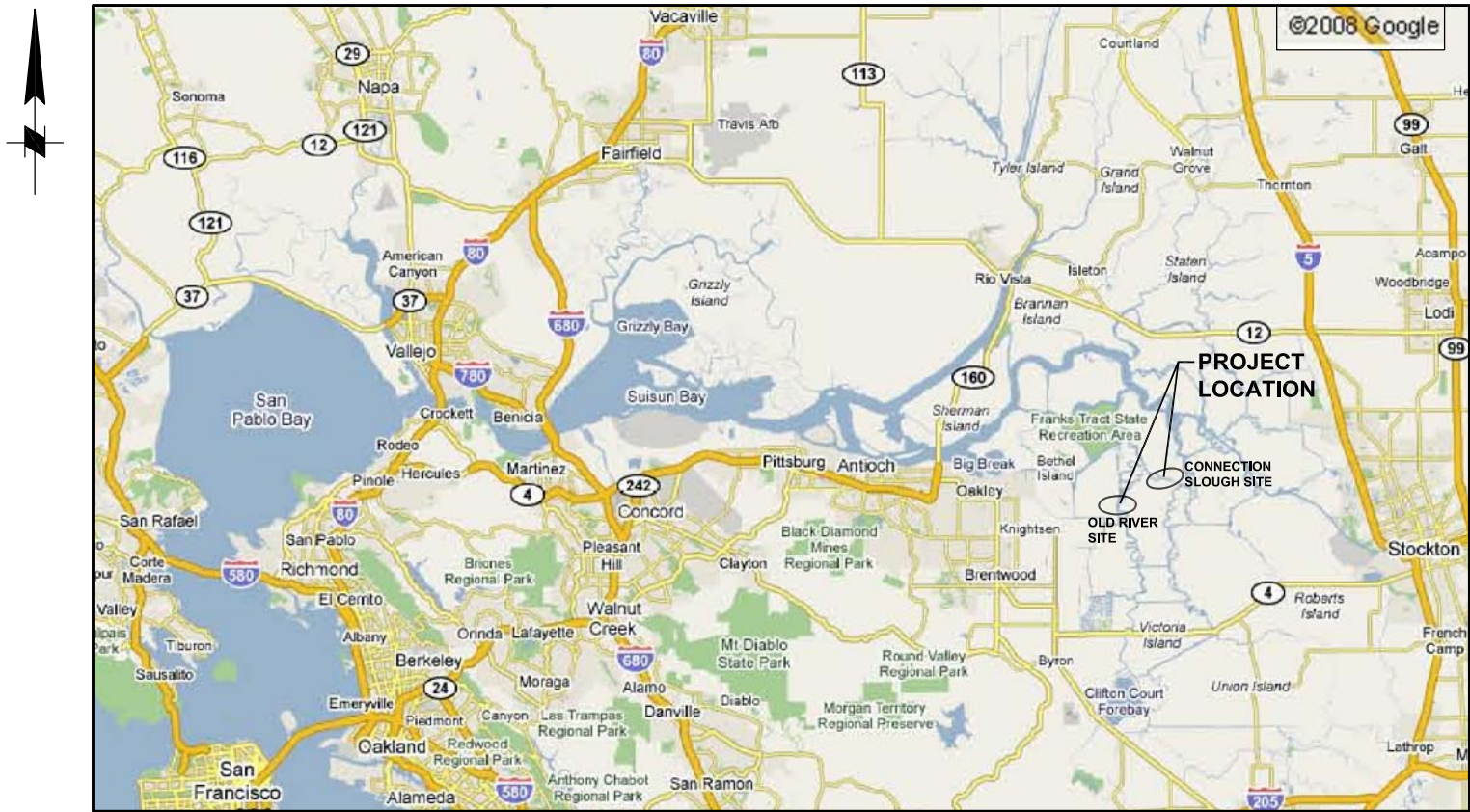


90% Design Plans for Old River Site & Connection Slough Site

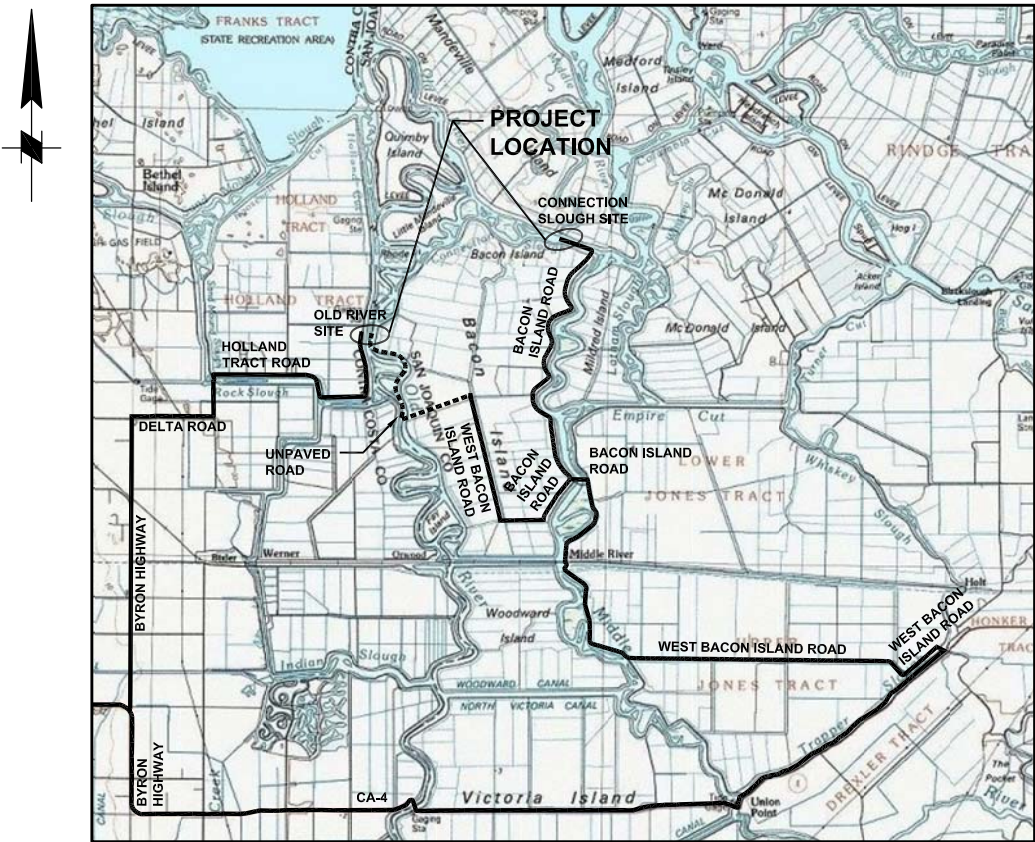
Old River Site

TWO GATE FISH PROTECTION PLAN

BACON ISLAND, CALIFORNIA



VICINITY MAP
NTS



LOCATION MAP
NTS

TECHNICAL REVIEWERS			
CIVIL _____ (INSERT NAME)	STRUCTURAL _____ (INSERT NAME)	 1121 L Street, Suite 1050 Sacramento, California 95814-3944 (916) 447-7357 x203 APPROVED _____ DENNIS G. MAJORS	
ELECTRICAL _____ (INSERT NAME)	MECHANICAL _____ (INSERT NAME)		

REVISION	DESCRIPTION	BY	DATE

 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411			
DSGN	TDB	DR	CHK
JOB NO.	SUBMITTED BY	TITLE	
6097-03	RMR		

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 1 OF 65
TITLE SHEET	G1

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GENERAL NOTES

BATHYMETRY SURVEYED BY ENVIRONMENTAL DATA SOLUTIONS ON JUNE 23, 2008 AND REPRESENTS CONDITIONS ON THAT DATE.

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.

ABBREVIATIONS

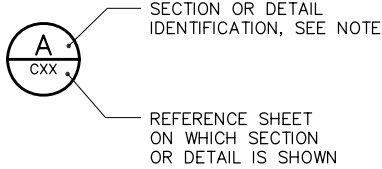
&	AND
#	NUMBER
%	PERCENT
APPROX	APPROXIMATE
ASTM	ASTM INTERNATIONAL
AWPA	AMERICAN WOOD PRESERVATION ASSOCIATION
℄	CENTER LINE
CIP	CAST-IN-PLACE
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
DIA, ∅	DIAMETER
DWG	DRAWING
E	EAST
(E)	EXISTING
EL	ELEVATION
EJ	EXPANSION JOINT
FG	FINISH GRADE
H	HORIZONTAL
HD	HEAD
HDPE	HIGH DENSITY POLYETHYLENE
HW	HIGH WATER
ID	INSIDE DIAMETER
LW	LOW WATER
MAX	MAXIMUM
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
N	NORTH
NAD	NORTH AMERICAN DATUM
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
OPP	OPPOSITE
REINF	REINFORCEMENT
SCH	SCHEDULE
SIM	SIMILAR
STD	STANDARD
SYMM	SYMMETRICAL
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
UON	UNLESS OTHERWISE NOTED
V	VERTICAL
VC	VERTICAL CURVE
WP	WORK POINT
W/	WITH

INDEX OF DRAWINGS

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
		<u>GENERAL</u>
1	G1	TITLE SHEET
2	G2	INDEX OF DRAWINGS, ABBREVIATIONS, LEGEND AND GENERAL NOTES
3	G3	PROJECT GENERAL PLAN
		<u>OLD RIVER</u>
4	C1	OLD RIVER SITE PLAN
5	C2	OLD RIVER DREDGING PLAN & SECTION
6	C3	OLD RIVER BARGE PREPARED BED
7	C4	OLD RIVER APPROACH RAMP PLAN AND SECTIONS
8	C5	OLD RIVER SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 1
9	C6	OLD RIVER SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 2
10	C7	OLD RIVER BOAT RAMP PLAN AND SECTIONS, SHEET 1
11	C8	OLD RIVER BOAT RAMP PLAN AND SECTIONS, SHEET 2
12	C9	OLD RIVER BOAT RAMP PLAN AND SECTIONS, SHEET 3
13	C10	OLD RIVER BOAT RAMP PLAN AND SECTIONS, SHEET 4
14	C11	OLD RIVER CATWALK PLAN AND ELEVATION, SHEET 1
15	C12	OLD RIVER CATWALK PLAN AND ELEVATION, SHEET 2
16	C13	OLD RIVER ELECTRICAL SITE PLAN
17	C14	OLD RIVER BARGE GENERAL ARRANGEMENT PLAN
18	C15	OLD RIVER BARGE GENERAL ARRANGEMENT ELEVATION
19	C16	OLD RIVER GATE SCANTLINGS
20	C17	OLD RIVER GATE FRAMING LAYOUT
21	C18	OLD RIVER END WALL SCANTLINGS
22	C19	OLD RIVER AIDS TO NAVIGATION PLAN
23	C20	OLD RIVER TEMPORARY REMOVAL PLAN
24	C21	OLD RIVER PERMANENT REMOVAL PLAN
		<u>CONNECTION SLOUGH</u>
25	C31	CONNECTION SLOUGH SITE PLAN
26	C32	CONNECTION SLOUGH DREDGING – PLAN & SECTION
27	C33	CONNECTION SLOUGH BARGE PREPARED BED
28	C34	CONNECTION SLOUGH APPROACH RAMP PLAN AND SECTIONS
29	C35	CONNECTION SLOUGH SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION
30	C36	CONNECTION SLOUGH BOAT RAMP PLAN AND SECTIONS, SHEET 1
31	C37	CONNECTION SLOUGH BOAT RAMP PLAN AND SECTIONS, SHEET 2
32	C38	CONNECTION SLOUGH BOAT RAMP PLAN AND SECTIONS, SHEET 3
33	C39	CONNECTION SLOUGH BOAT RAMP PLAN AND SECTIONS, SHEET 4
34	C40	CONNECTION SLOUGH CATWALK – PLAN AND ELEVATION

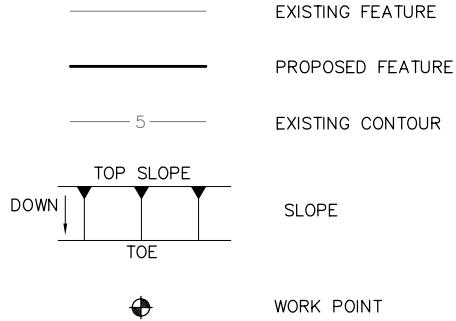
SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
35	C41	CONNECTION SLOUGH ELECTRICAL SITE PLAN
36	C42	CONNECTION SLOUGH BARGE GENERAL ARRANGEMENT PLAN
37	C43	CONNECTION SLOUGH BARGE GENERAL ARRANGEMENT ELEVATION
38	C44	CONNECTION SLOUGH GATE SCANTLINGS
39	C45	CONNECTION SLOUGH GATE FRAMING LAYOUT
40	C46	CONNECTION SLOUGH END WALL SCANTLINGS
41	C47	CONNECTION SLOUGH AIDS TO NAVIGATION PLAN
42	C48	CONNECTION SLOUGH TEMPORARY REMOVAL PLAN
43	C49	CONNECTION SLOUGH PERMANENT REMOVAL PLAN
		<u>COMMON DETAILS</u>
44	C61	GATE STRUCTURAL DETAILS, SHEET 1
45	C62	GATE STRUCTURAL DETAILS, SHEET 2
46	C63	SHEET PILE WALL DETAILS, SHEET 1
47	C64	SHEET PILE WALL DETAILS, SHEET 2
48	C65	BOAT RAMP PLAN AND SECTIONS
49	C66	BOAT RAMP DETAILS
50	C67	BOARDING FLOAT PLAN & ELEVATION
51	C68	BOARDING FLOAT DETAILS
52	C69	CATWALK DETAILS, SHEET 1
53	C70	CATWALK DETAILS, SHEET 2
54	C71	CATWALK DETAILS, SHEET 3
55	C72	CATWALK DETAILS, SHEET 4
56	C73	GATE MECHANICAL DETAILS, SHEET 1
57	C74	GATE MECHANICAL DETAILS, SHEET 2
58	C75	AIDS TO NAVIGATION DETAILS, SHEET 1
59	C76	AIDS TO NAVIGATION DETAILS, SHEET 2
60	C77	UTILITY YARD DETAILS
61	C78	OPERATOR HOUSE EQUIPMENT AND DETAILS
62	C79	ELECTRICAL SYSTEM DIAGRAM
63	C80	HYDRAULICS SYSTEM DIAGRAM
64	C81	DREDGED MATERIAL DISPOSAL SITE
65	C82	MISCELLANEOUS DETAILS

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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IF SHEET IS LESS THAN 22" x 34" IT IS A REDUCED PRINT – SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



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Walnut Creek, California 94596
(925) 944-5411

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

TWO GATE FISH PROTECTION PLAN

DATE 12/09/08

SHEET 2 OF 65

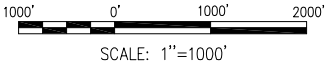
INDEX OF DRAWINGS
ABBREVIATIONS, LEGEND AND
GENERAL NOTES

G2

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PROJECT GENERAL PLAN
SCALE: 1"= 1000'



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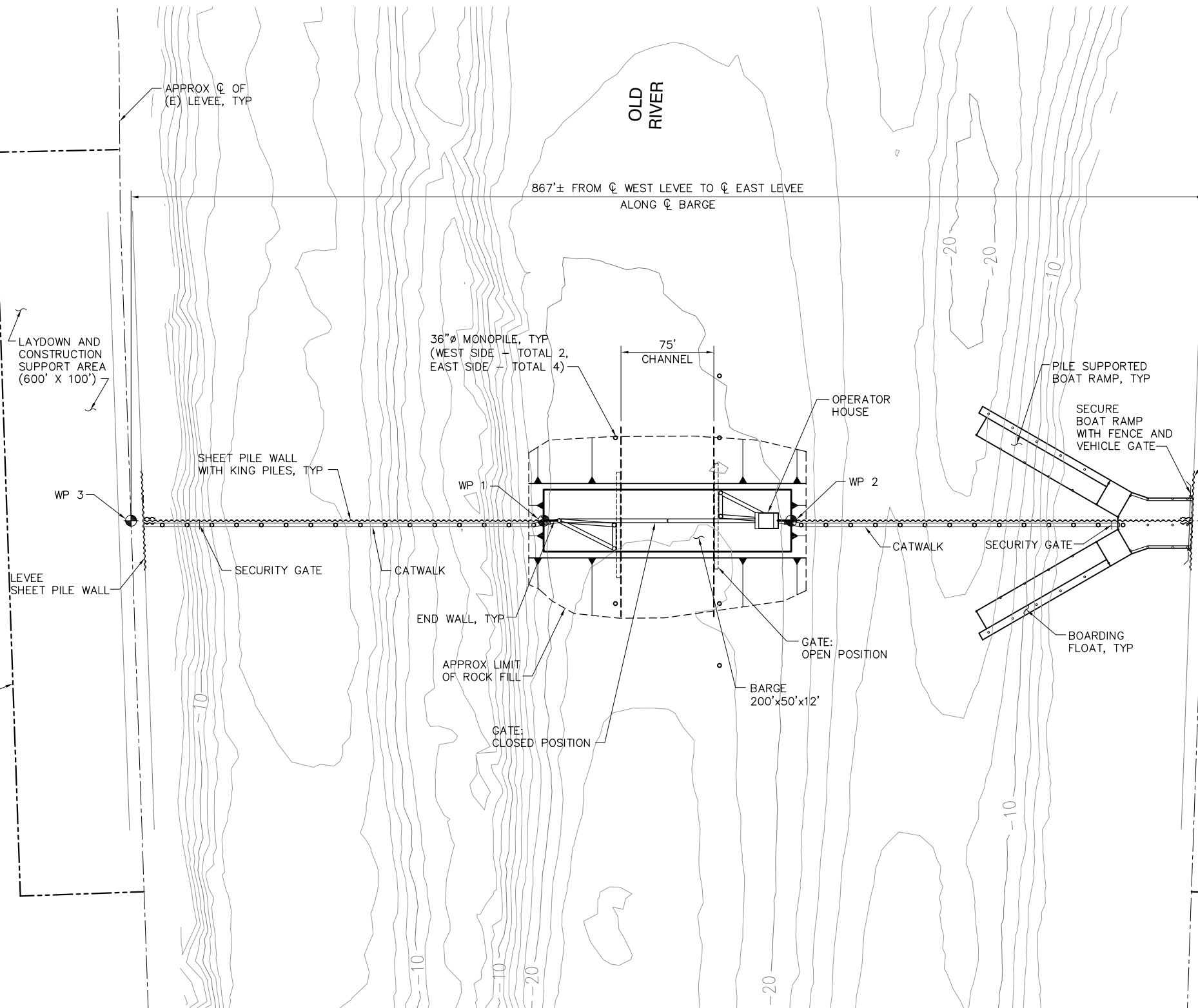
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
		DR EP	CHK GTH
DSGN	TDB	JOB NO.	TITLE
		6097-03	RMR

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 3 OF 65
PROJECT GENERAL PLAN	G3

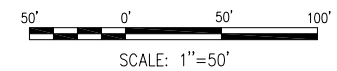
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HOLLAND
TRACT

LIMITS OF CLEARING
& GRUBBING AS
NECESSARY FOR
CONSTRUCTION
OPERATIONS



SITE PLAN
SCALE: 1"= 50'



WORK POINT DATA

WORK POINT	NORTHING	EASTING	FEATURE
1	2183496.04	6250058.83	CL OF WEST SIDE OF BARGE
2	2183465.50	6250256.48	CL OF EAST SIDE OF BARGE
3	2183546.94	6249729.50	CL OF WEST LEVEE AND GATE
4	2183414.53	6250586.33	CL OF EAST LEVEE AND GATE

90% SUBMITTAL

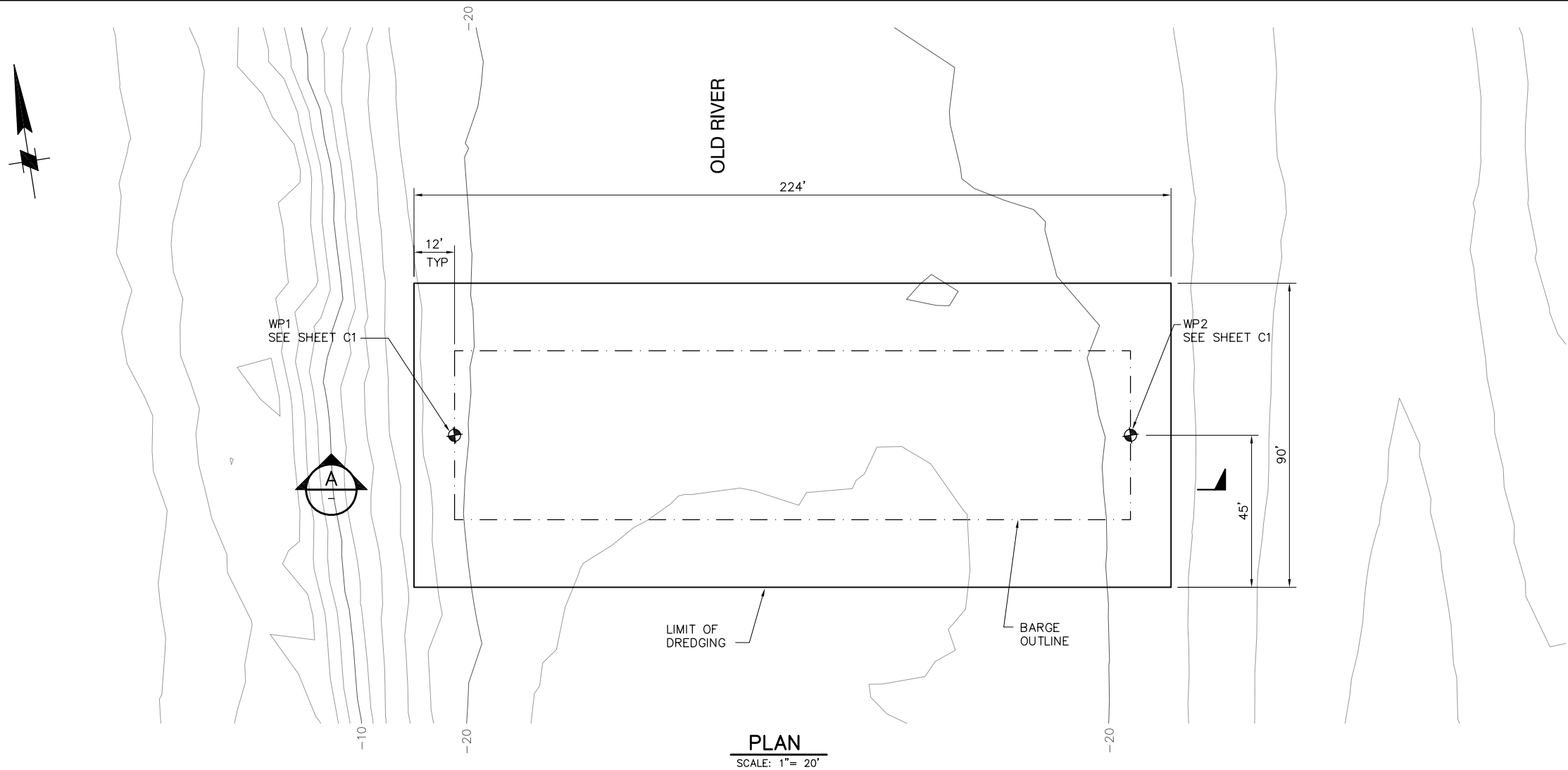
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

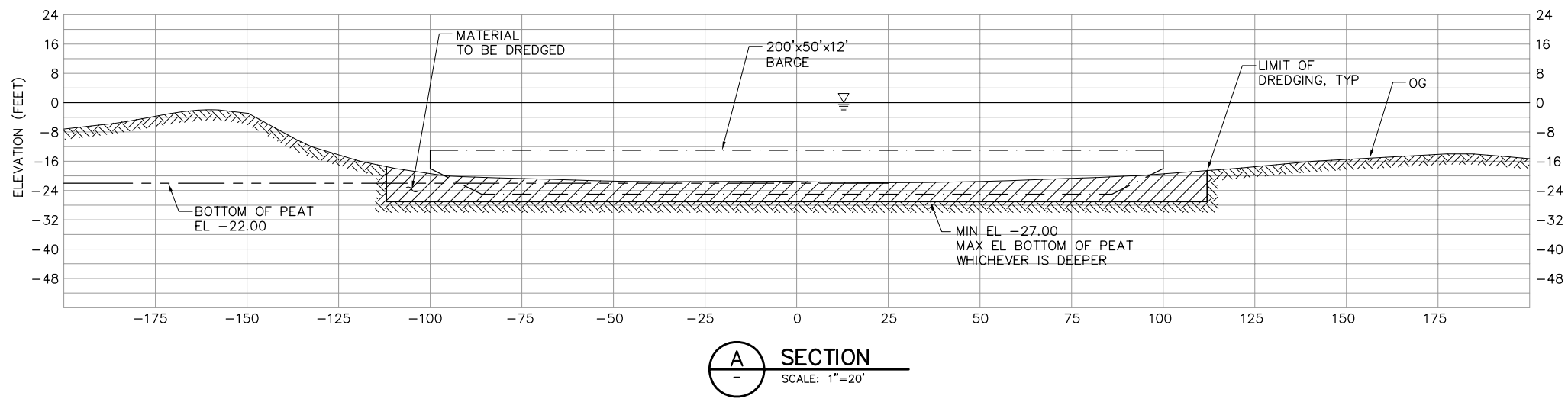
 Moffatt & Nichol	2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
	DSGN	DR
TDB	EP	CHK
JOB NO.	SUBMITTED BY	TITLE
6097-03	RMR	

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 4 OF 65
OLD RIVER SITE PLAN	C1

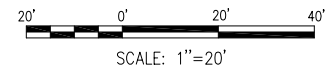
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PLAN
SCALE: 1"= 20'



SECTION
SCALE: 1"=20'

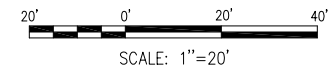
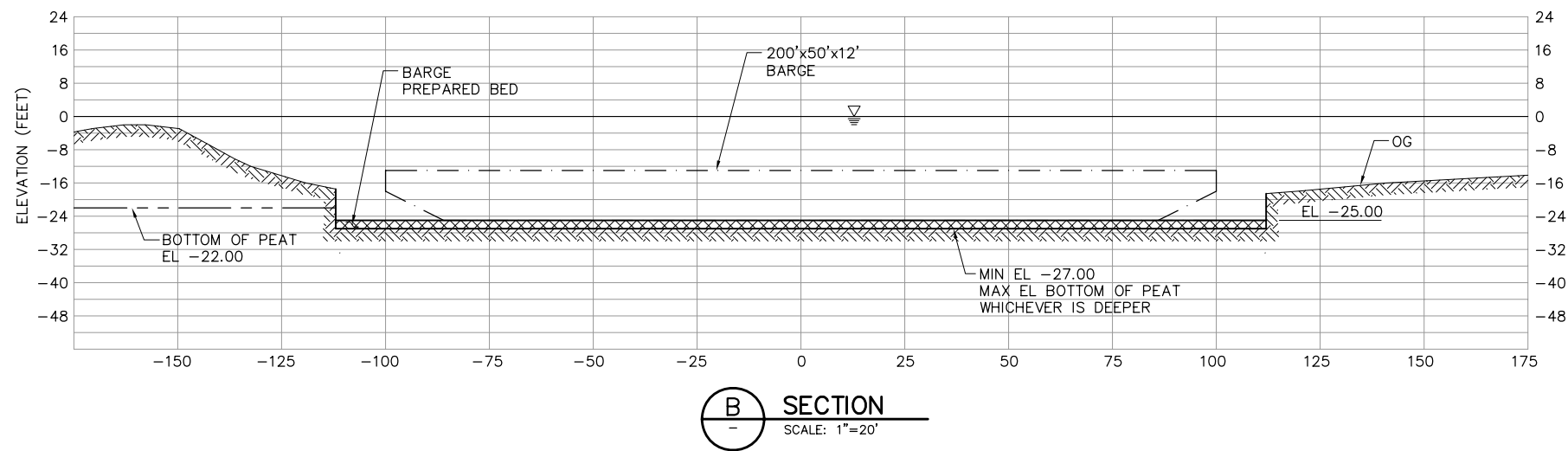
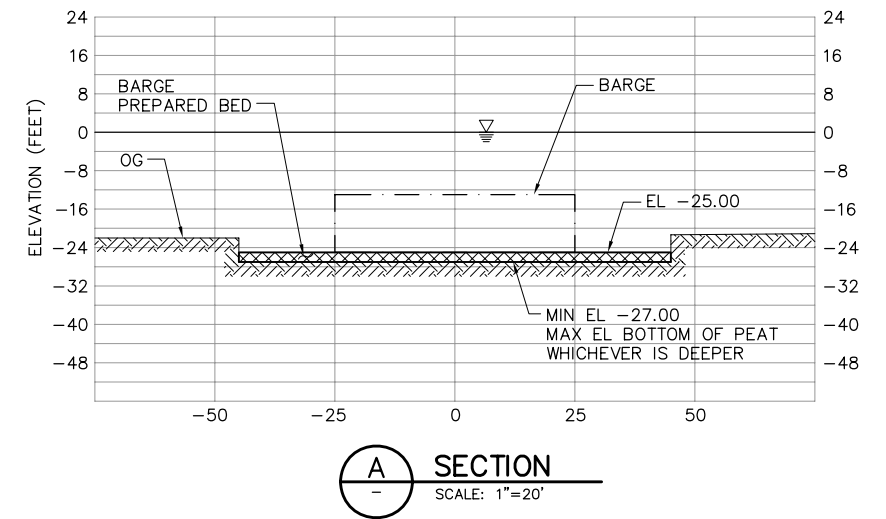
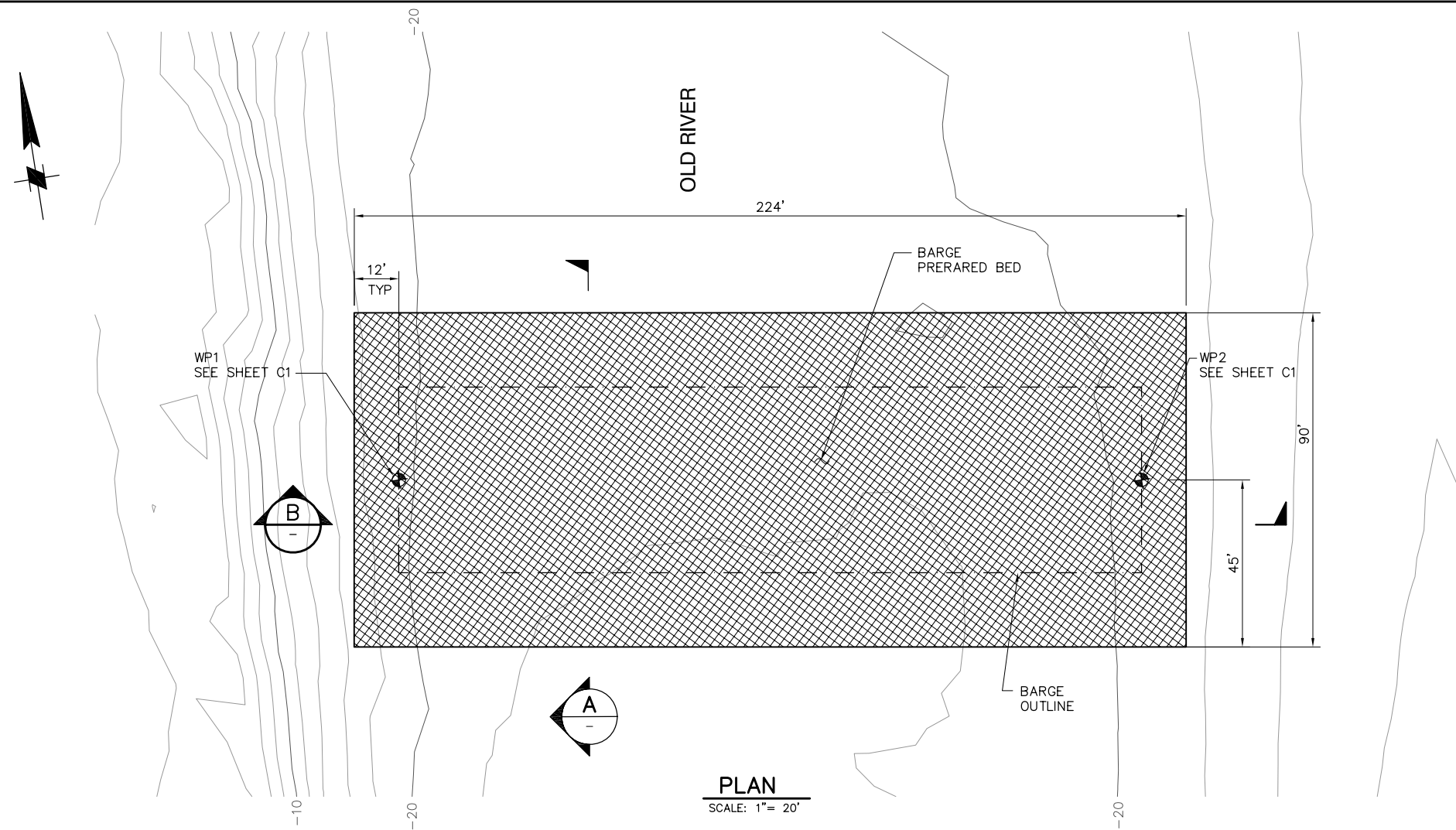


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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08	
							SHEET 5 OF 65	
				DSGN TDB	DR AB	CHK GTH	OLD RIVER DREDGING PLAN AND SECTION	C2
				JOB NO. 6097-03	SUBMITTED BY RMR	TITLE		

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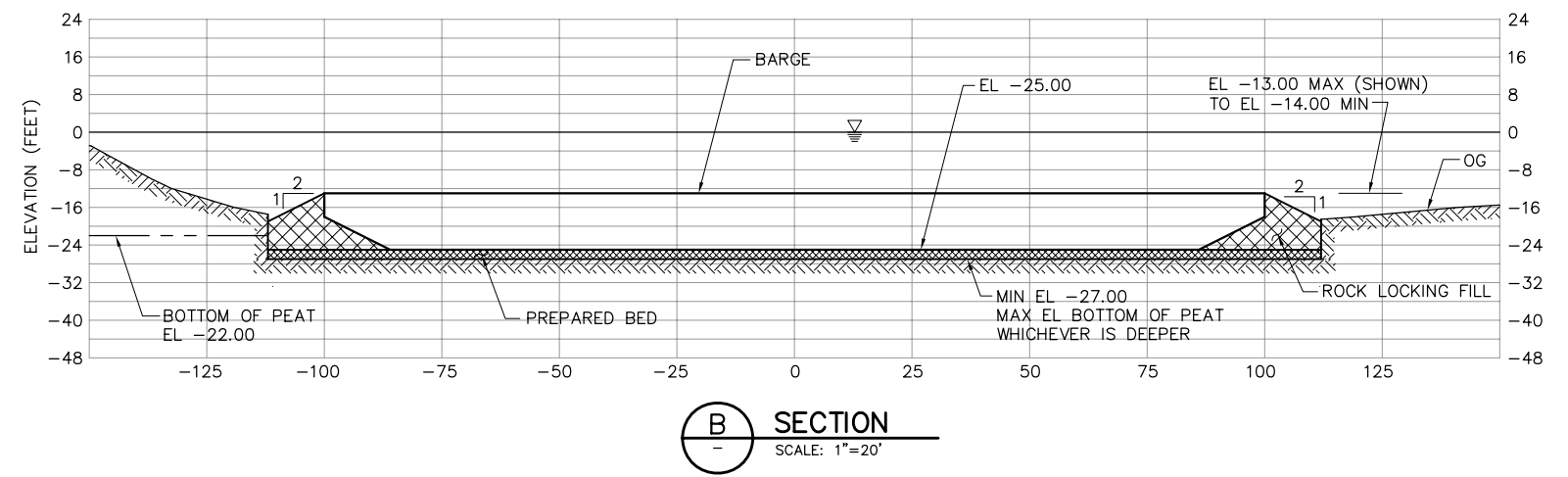
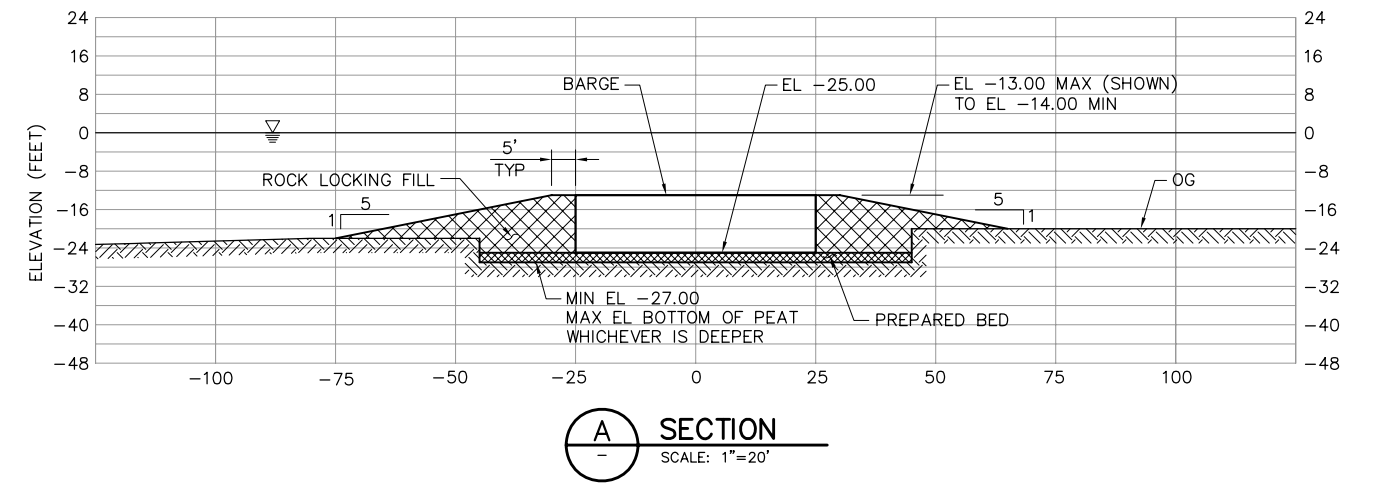
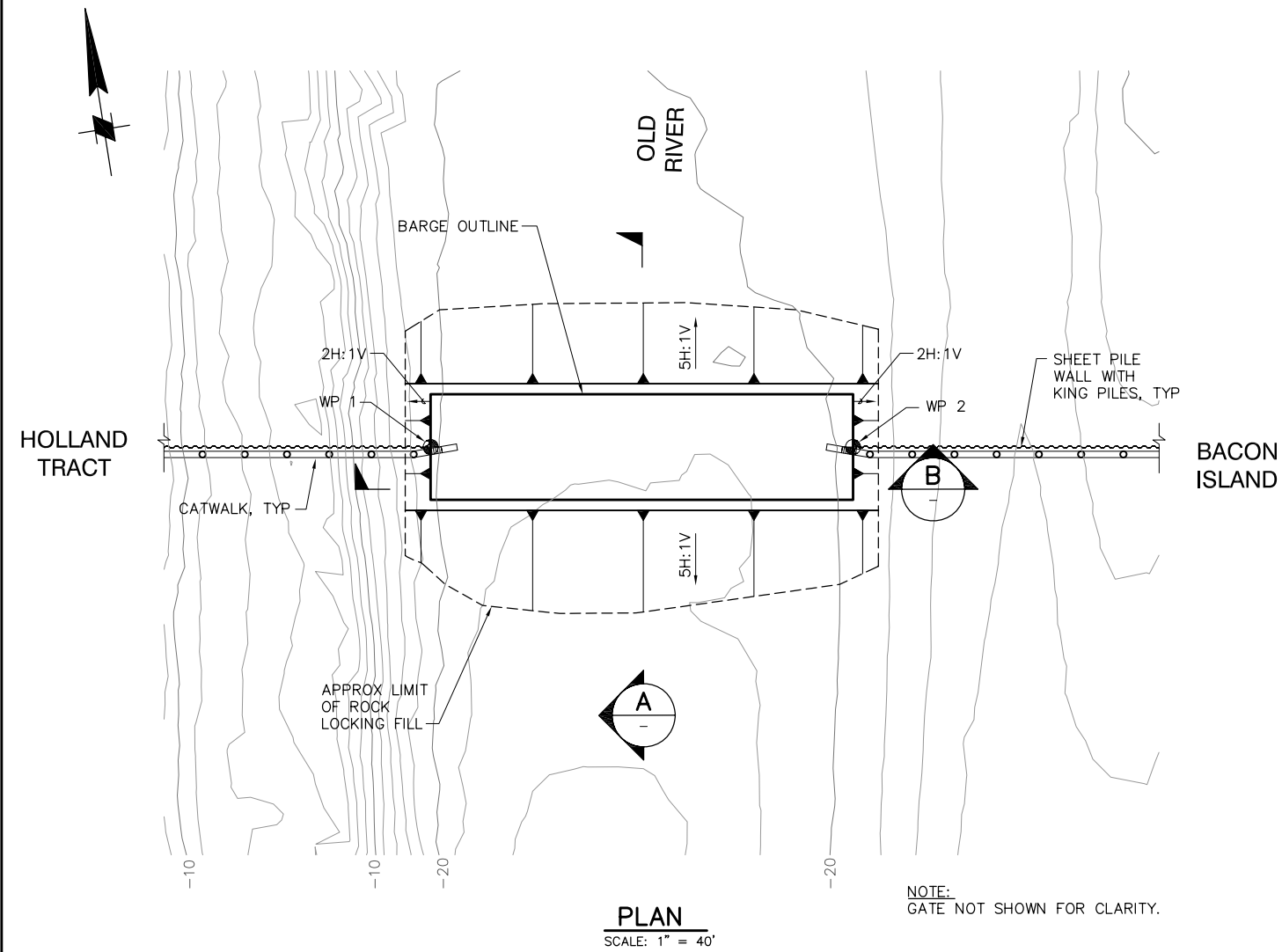


90% SUBMITTAL

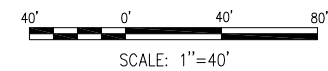
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411 Moffatt & Nichol	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
							SHEET 6 OF 65
					OLD RIVER BARGE PREPARED BED		C3
					DSGN TDB	DR AB	CHK GTH
				JOB NO. 6097-03	SUBMITTED BY RMR	TITLE	

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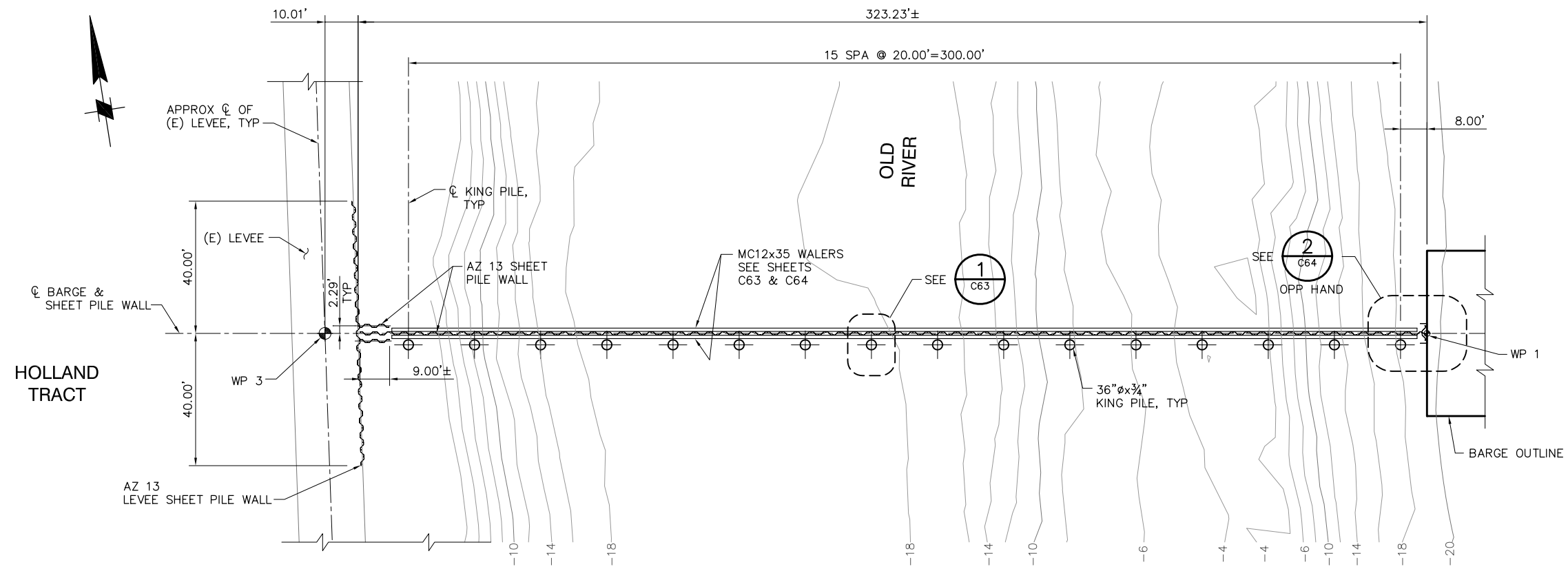


NOTE:
KING PILES AND SHEET PILES NEAR BARGE
SHALL BE PLACED BEFORE ROCK LOCKING FILL.



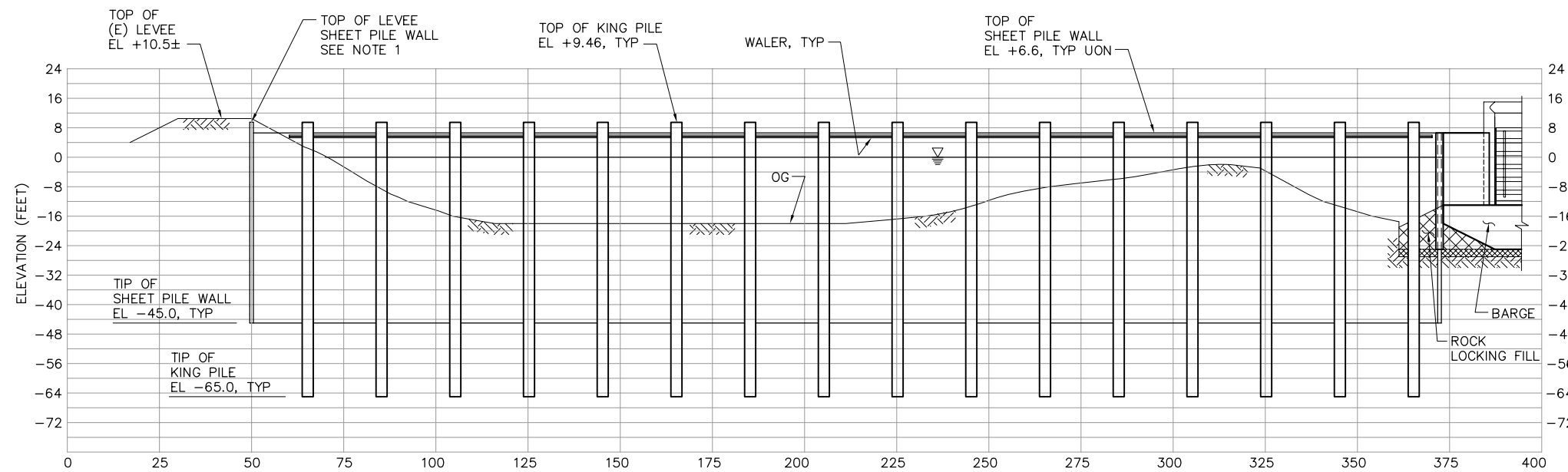
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REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08	
							SHEET 7 OF 65	
					OLD RIVER APPROACH RAMP PLAN AND SECTIONS		C4	
DSGN JMB		DR EP						CHK TDB
JOB NO. 6097-03		SUBMITTED BY RMR						TITLE



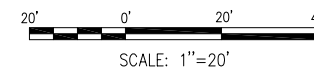
PLAN
SCALE: 1" = 20'

NOTE:
CATWALK NOT SHOWN
FOR CLARITY.



ELEVATION
SCALE: 1" = 20'

NOTE:
CATWALK NOT SHOWN
FOR CLARITY.



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SCALE REDUCED ACCORDINGLY.

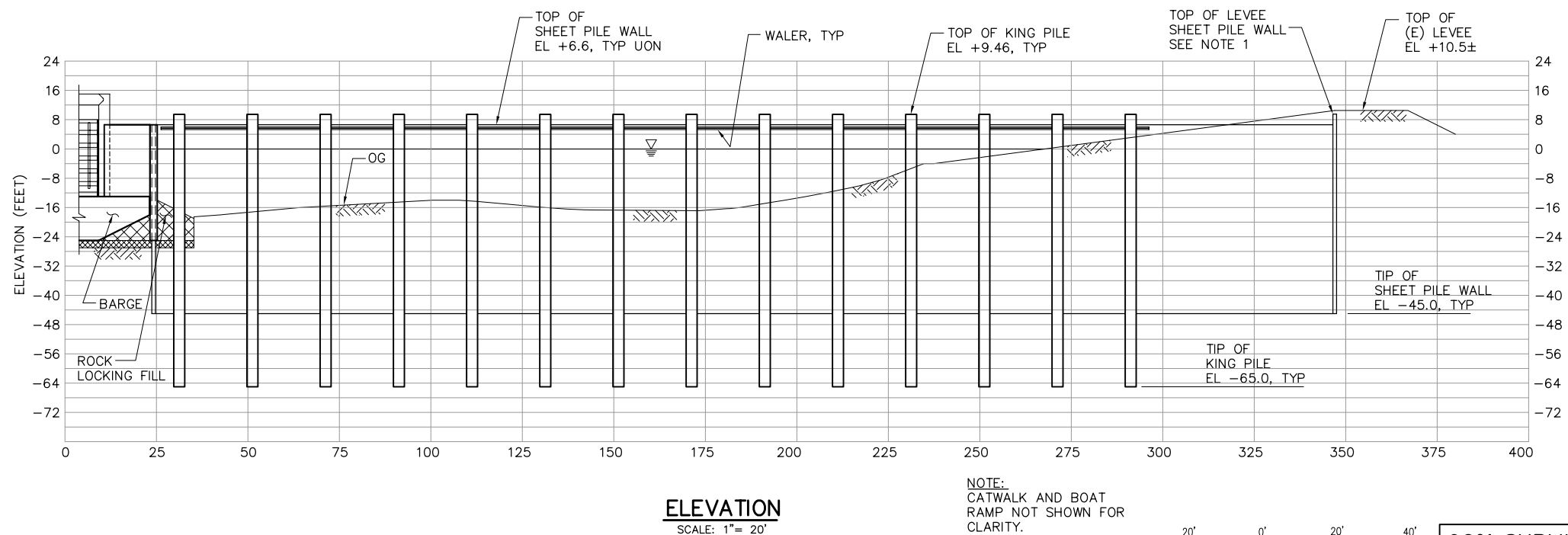
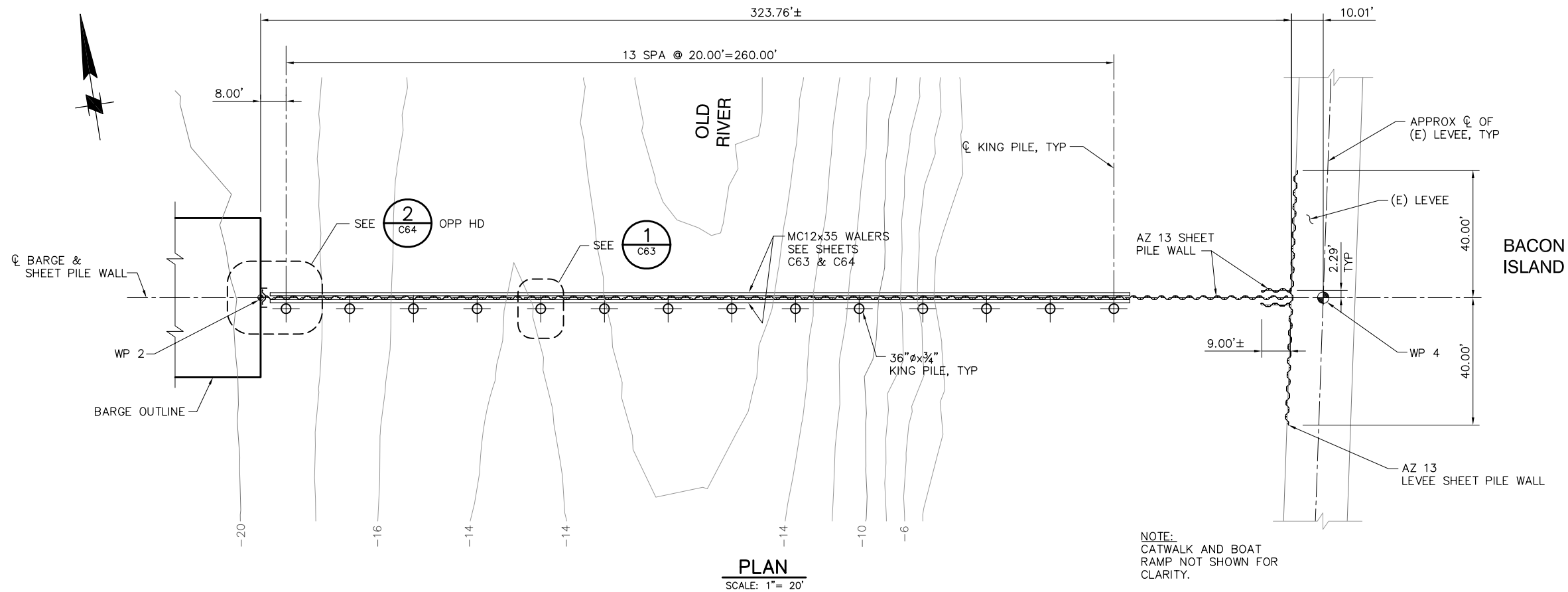
NOTES:

1. TOP OF LEVEE SHEET PILE WALL SHALL BE 6" BELOW TOP OF (E) LEVEE.

REVISION	DESCRIPTION	BY	DATE

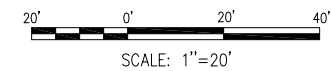
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
DSGN	JMB	DR	EP
JOB NO.	6097-03	SUBMITTED BY	RMR
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TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
OLD RIVER SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION, SHEET 1		SHEET 8 OF 65
		C5



NOTES:

1. TOP OF LEVEE SHEET PILE WALL SHALL BE 6" BELOW TOP OF (E) LEVEE.



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

TWO GATE FISH PROTECTION PLAN

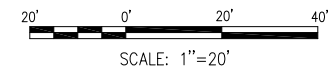
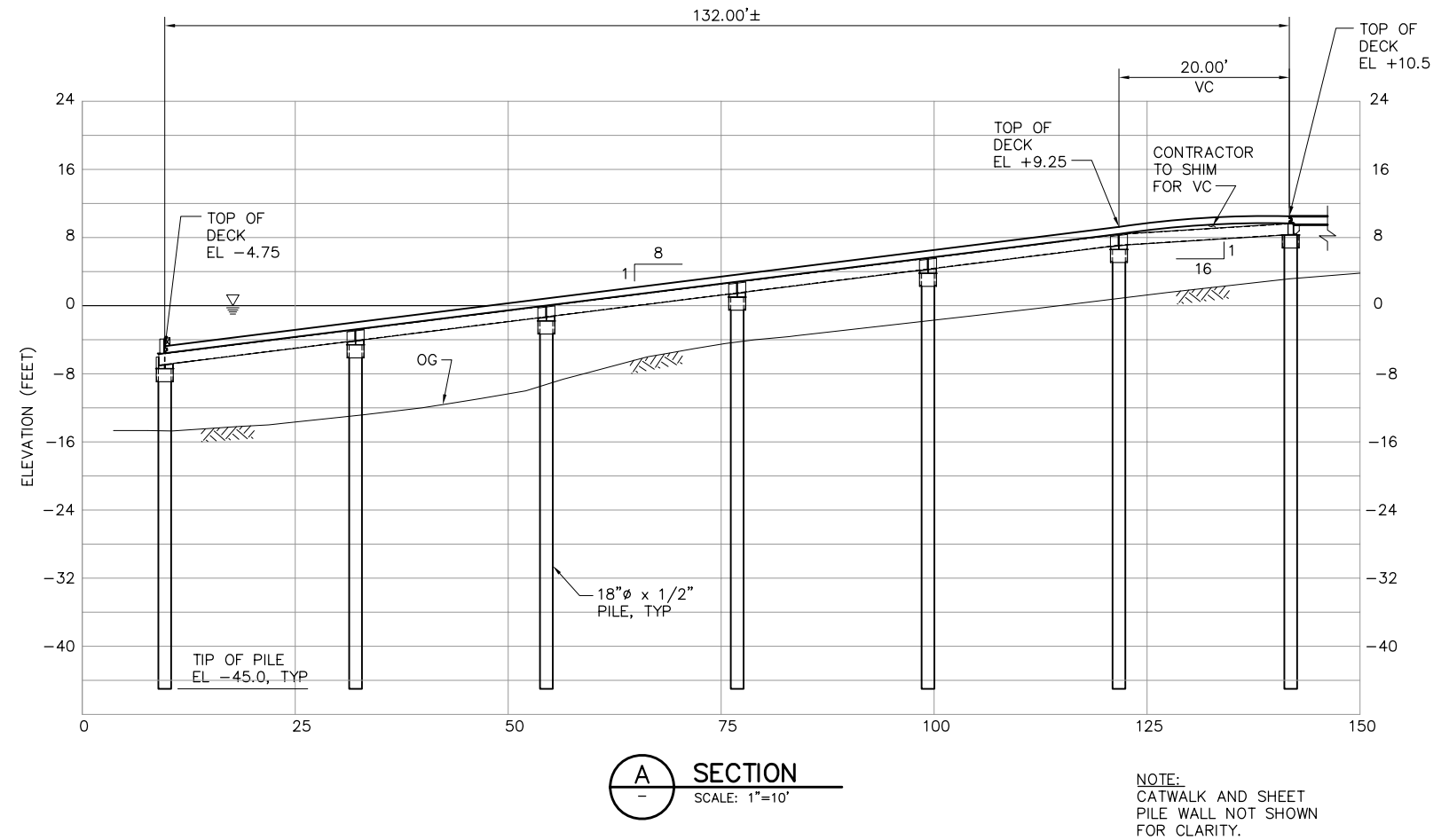
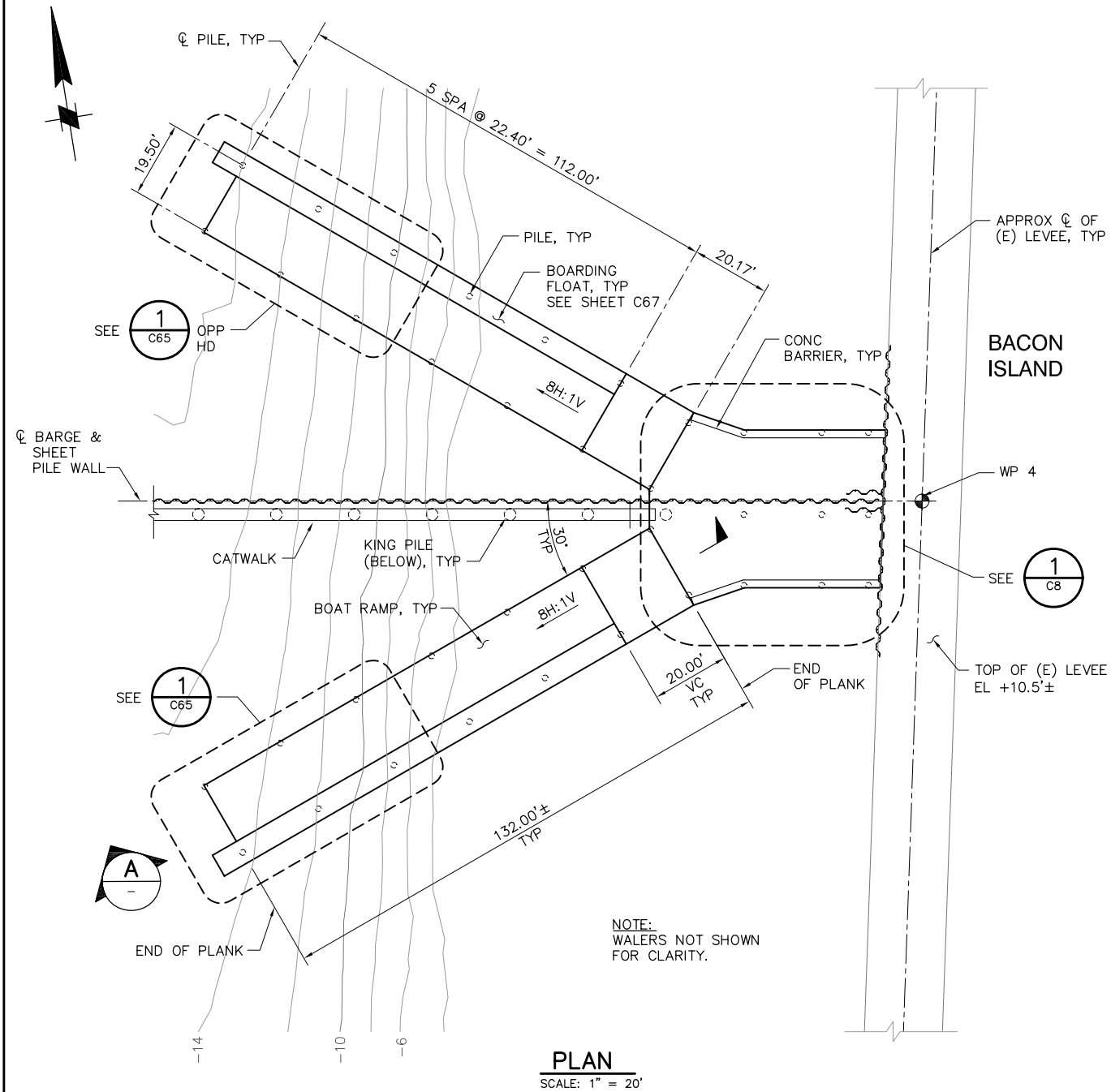
**OLD RIVER
SHEET PILE WALL ARRANGEMENT
PLAN AND ELEVATION, SHEET 2**

DATE 12/09/08

SHEET 9 OF 65

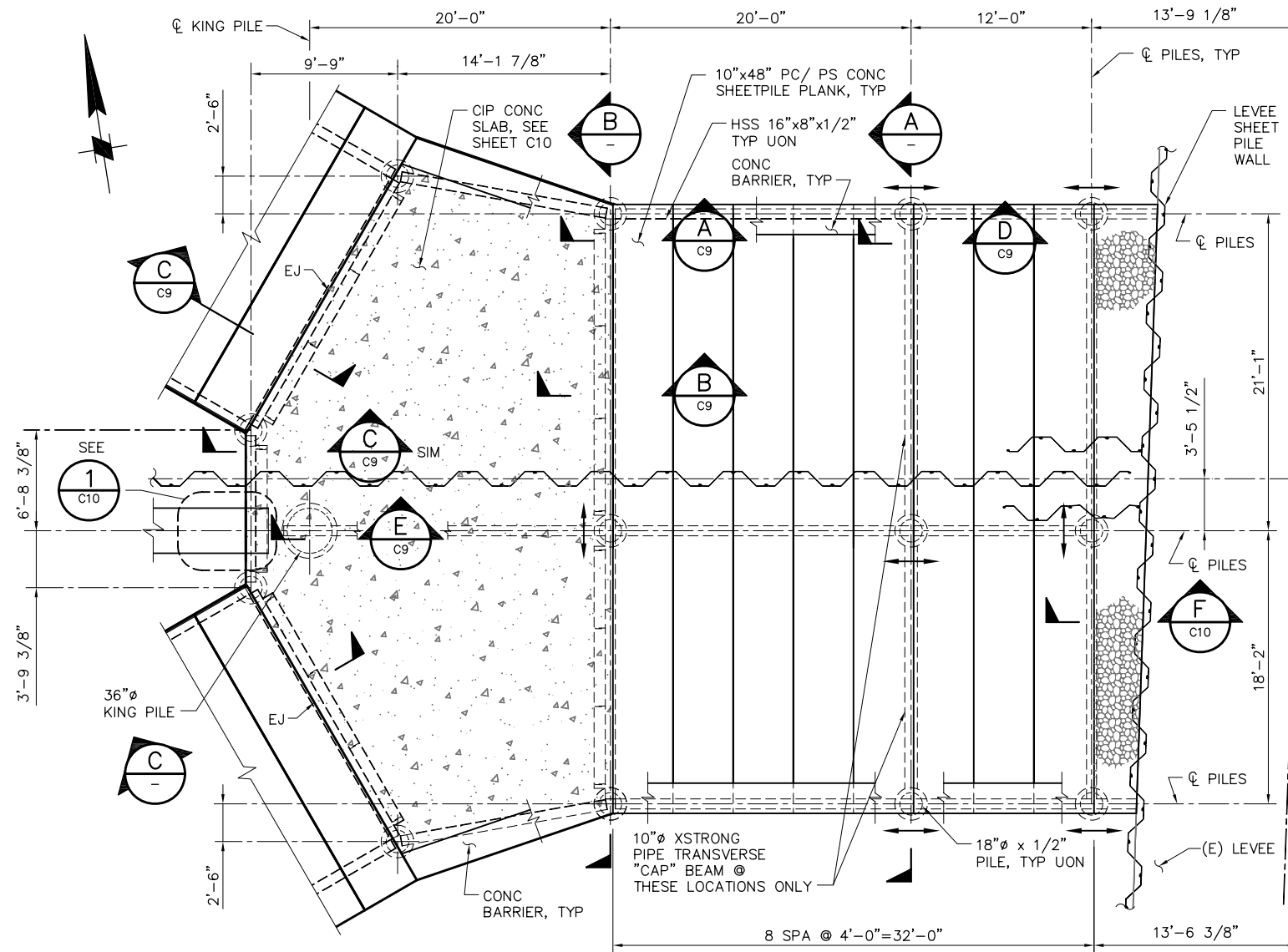
C6

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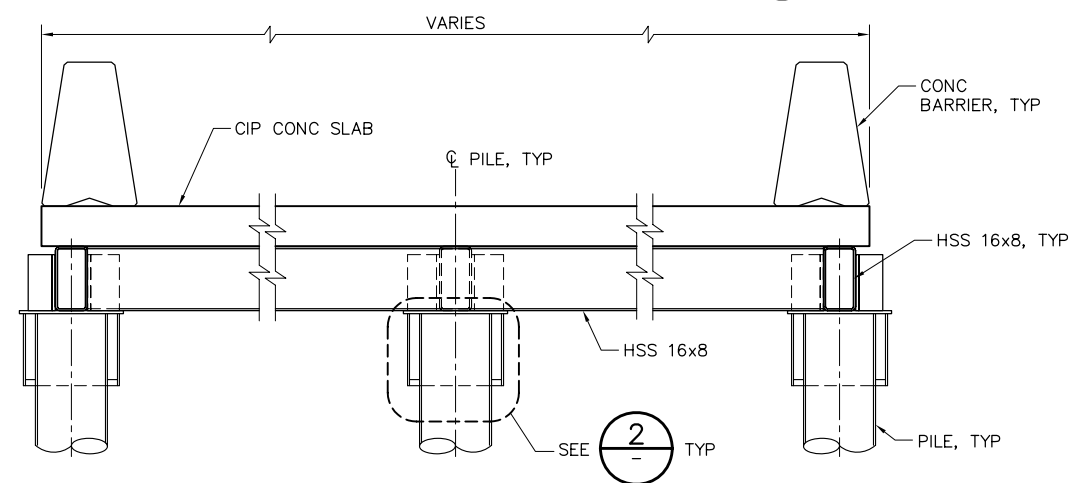
REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
							SHEET 10 OF 65
					OLD RIVER BOAT RAMP PLAN AND SECTIONS SHEET 1		C7



1
C7

DETAIL

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



B SECTION
SCALE: 1/2"=1'-0"

APPROX 1/2 OF
(E) LEVEE

BACON
ISLAND

1/2 BARGE &
SHEET PILE
WALL

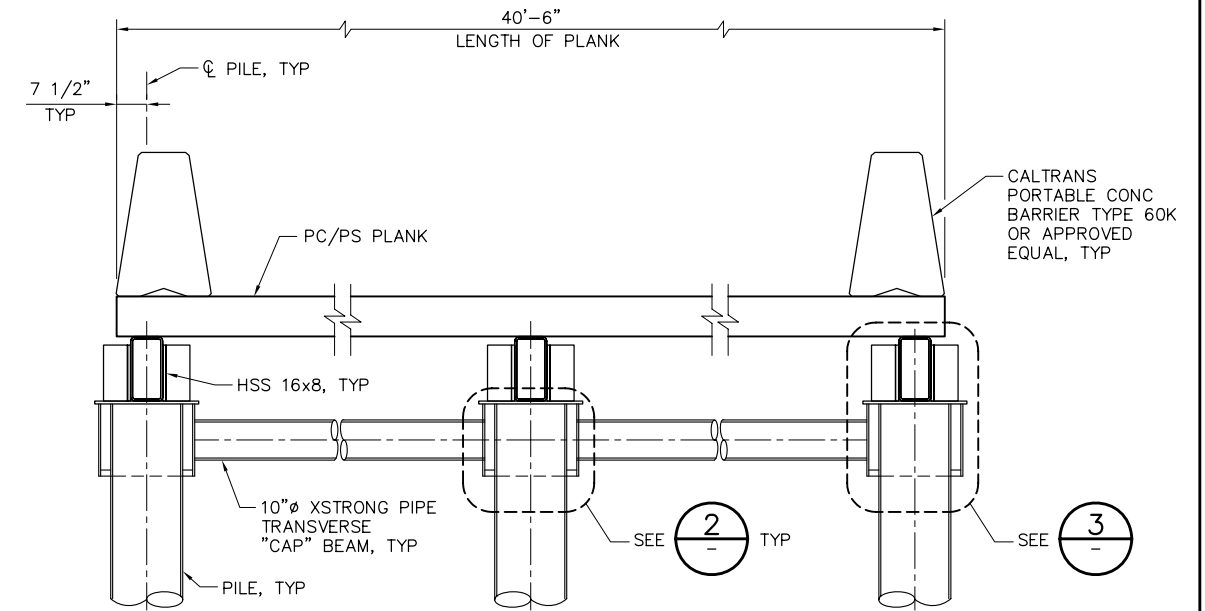
WP 4

LEGEND

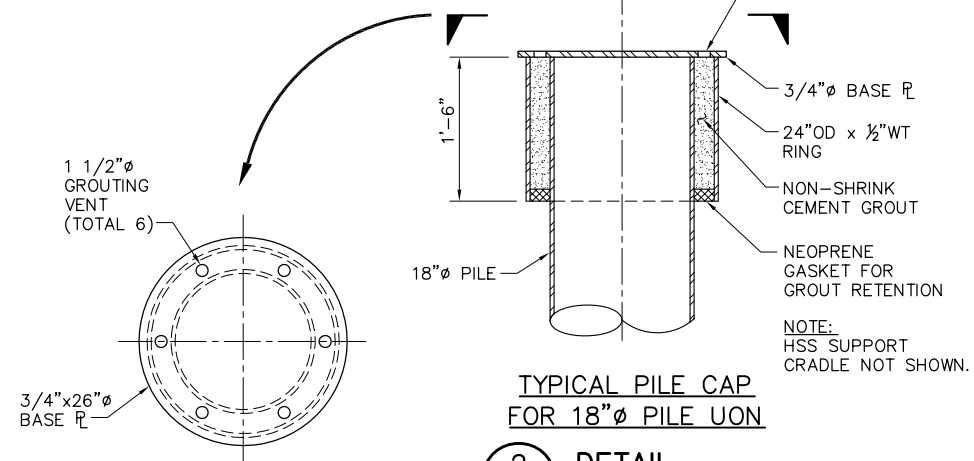
←→ HSS 16x8x1/2 CONTINUOUS
THRU SUPPORT

NOTES:

1. ALL PC/PS PLANKS SHALL BEAR ON/AGAINST NEOPRENE "UNDERLAYMENT" BEARING STRIP WITH A MINIMUM 1/8" THICKNESS.

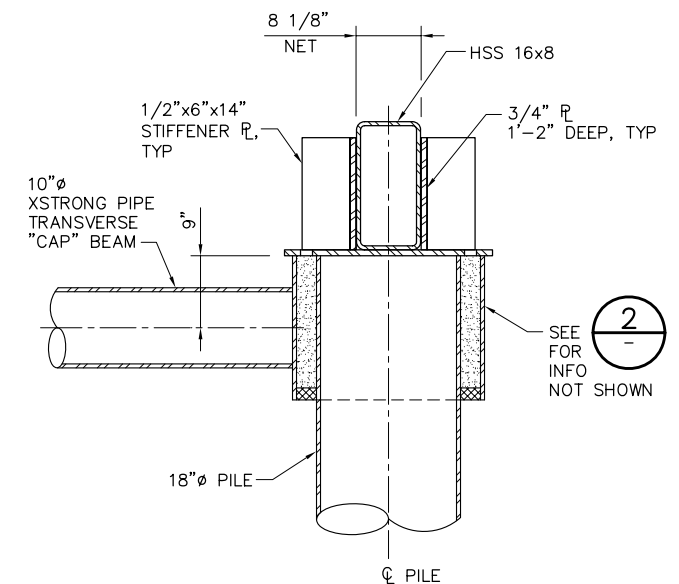


A SECTION
SCALE: 1/2"=1'-0"



TYPICAL PILE CAP
FOR 18"Ø PILE UON

2 DETAIL
SCALE: 1" = 1'-0"



3
-
DETAIL
SCALE: 1" = 1'-0"

90% SUBMITTAL

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REVISION	DESCRIPTION	BY	DATE



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(925) 944-5411

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

TWO GATE FISH PROTECTION PLAN

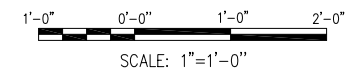
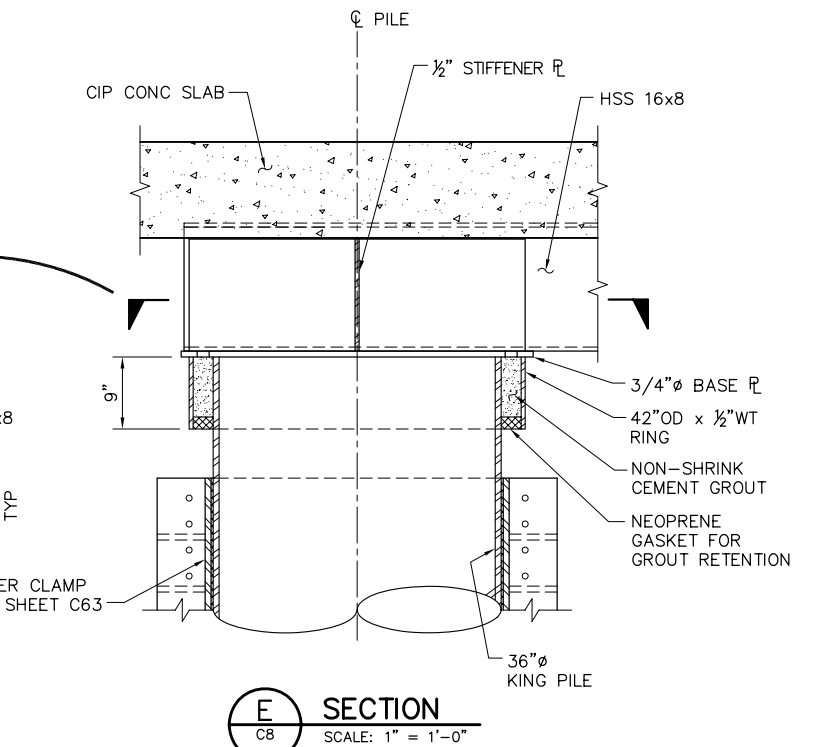
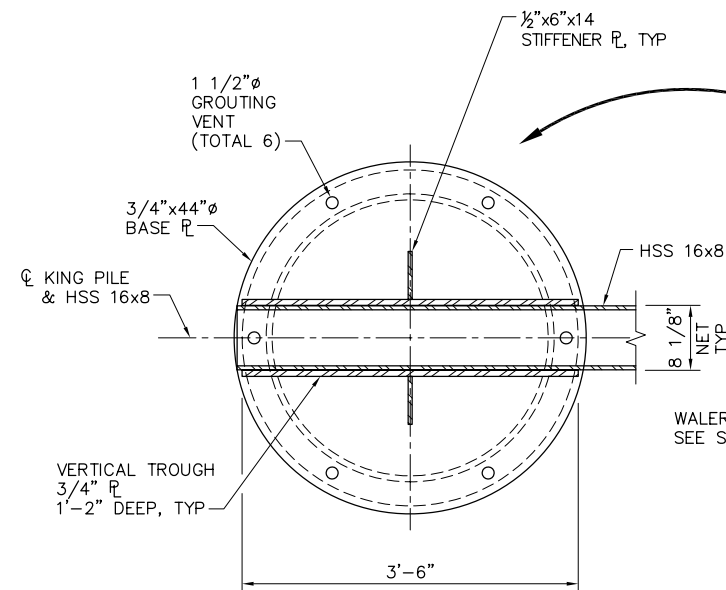
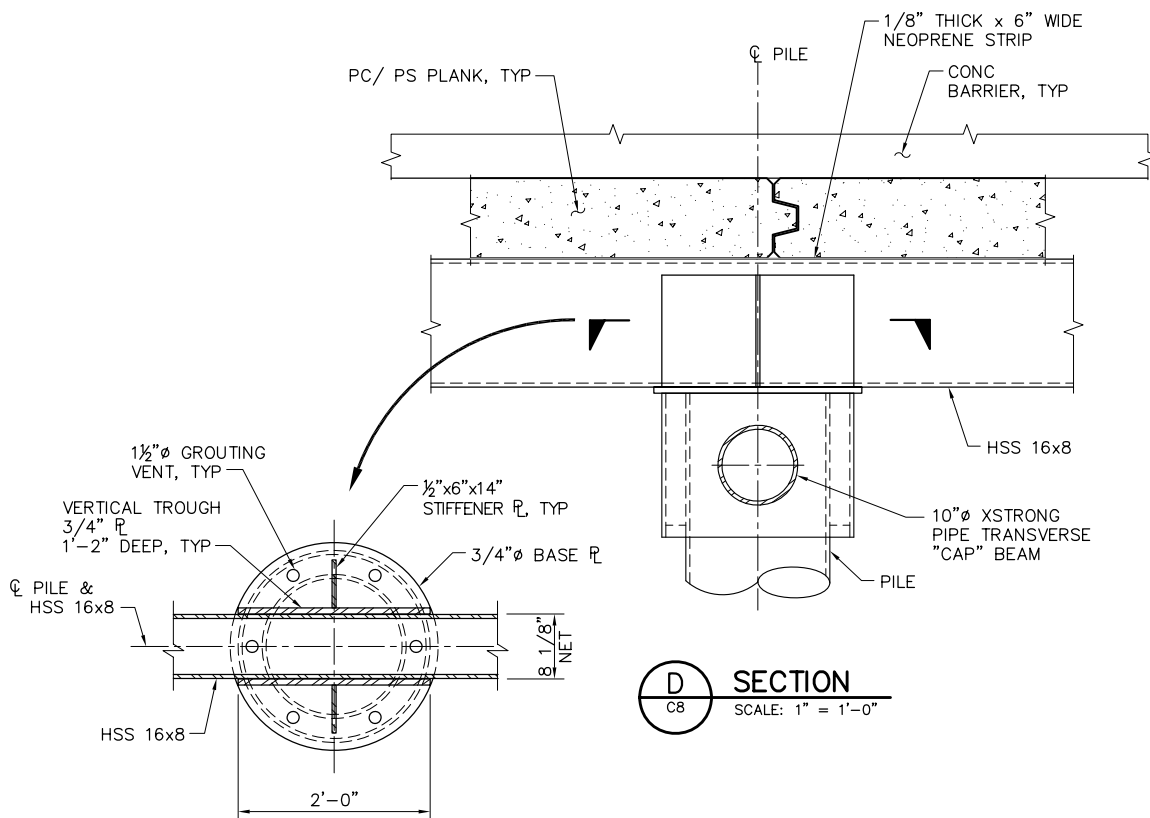
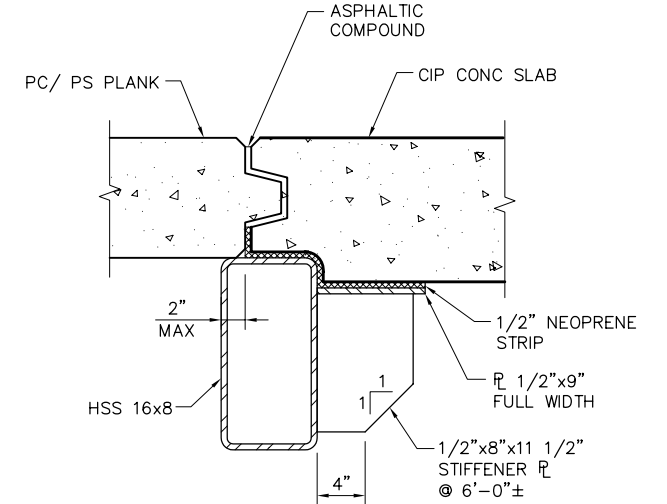
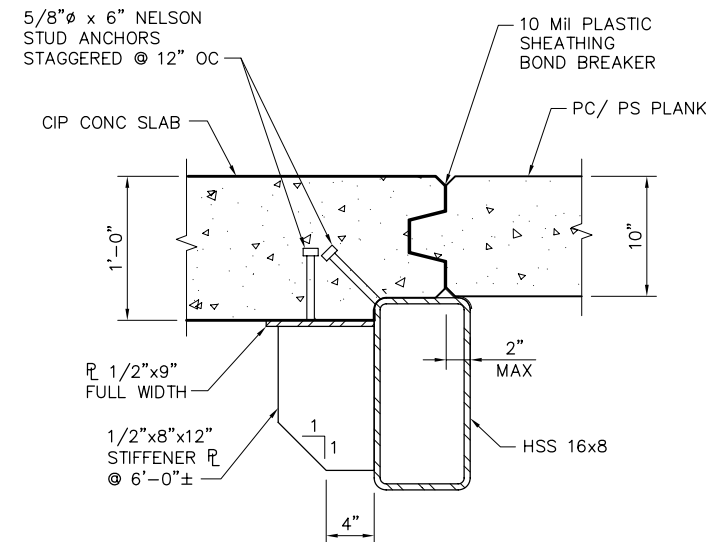
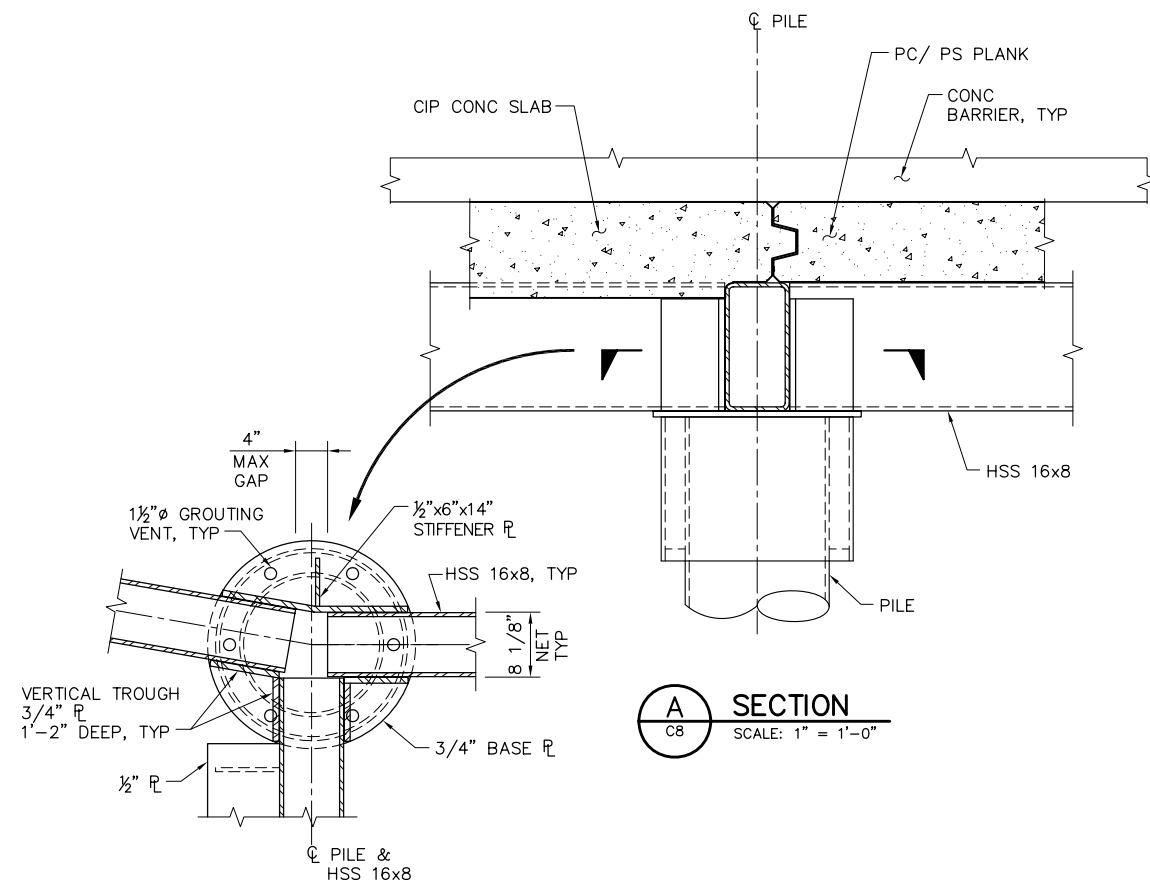
DATE 12/09/08

SHEET 11 OF 65

OLD RIVER
BOAT RAMP PLAN AND SECTIONS
SHEET 2

C8

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C8-C10.DWG 12/8/2008 1:24 PM



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

TWO GATE FISH PROTECTION PLAN

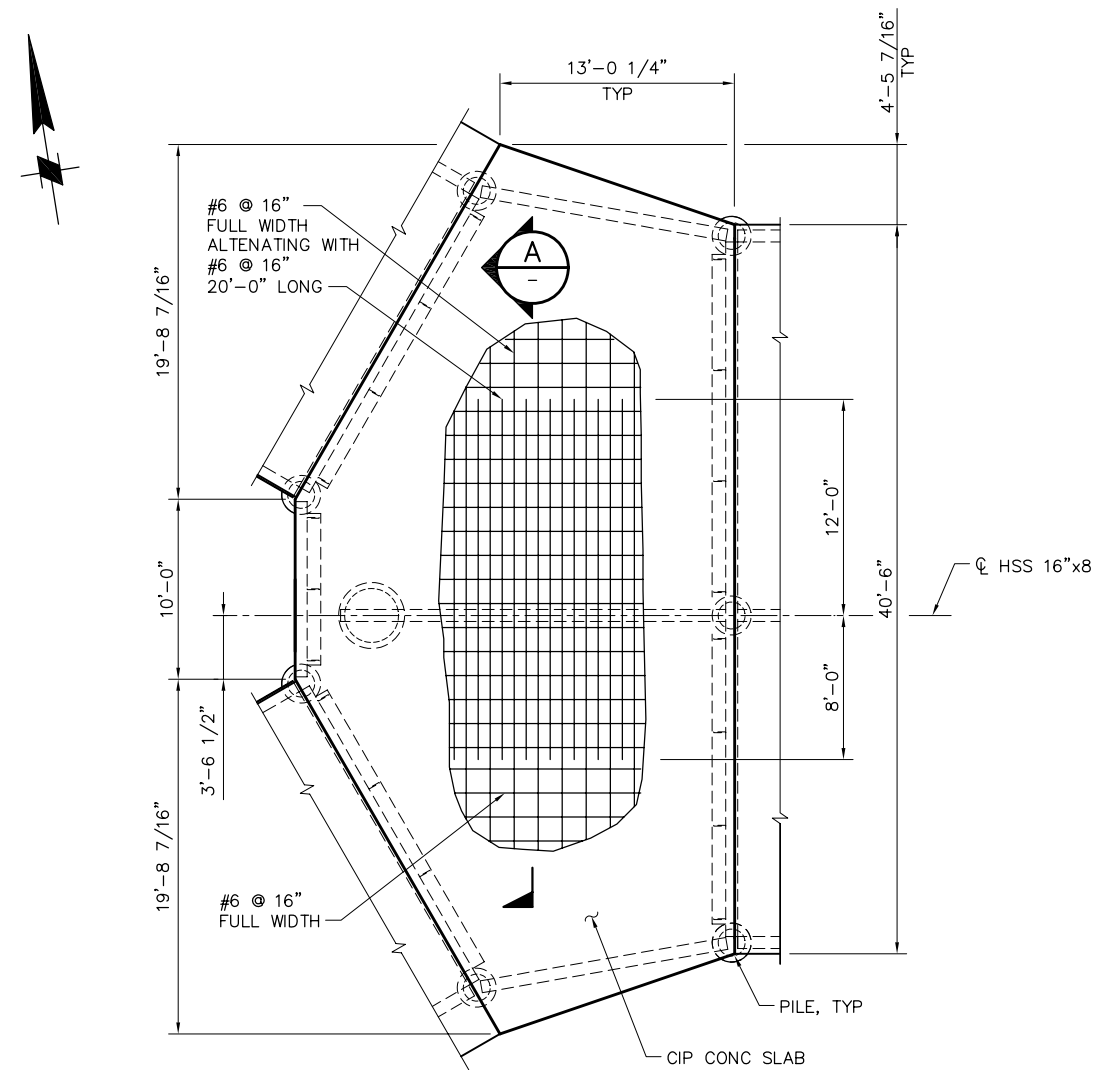
OLD RIVER
BOAT RAMP PLAN AND SECTIONS
SHEET 3

DATE 12/09/08

SHEET 12 OF 65

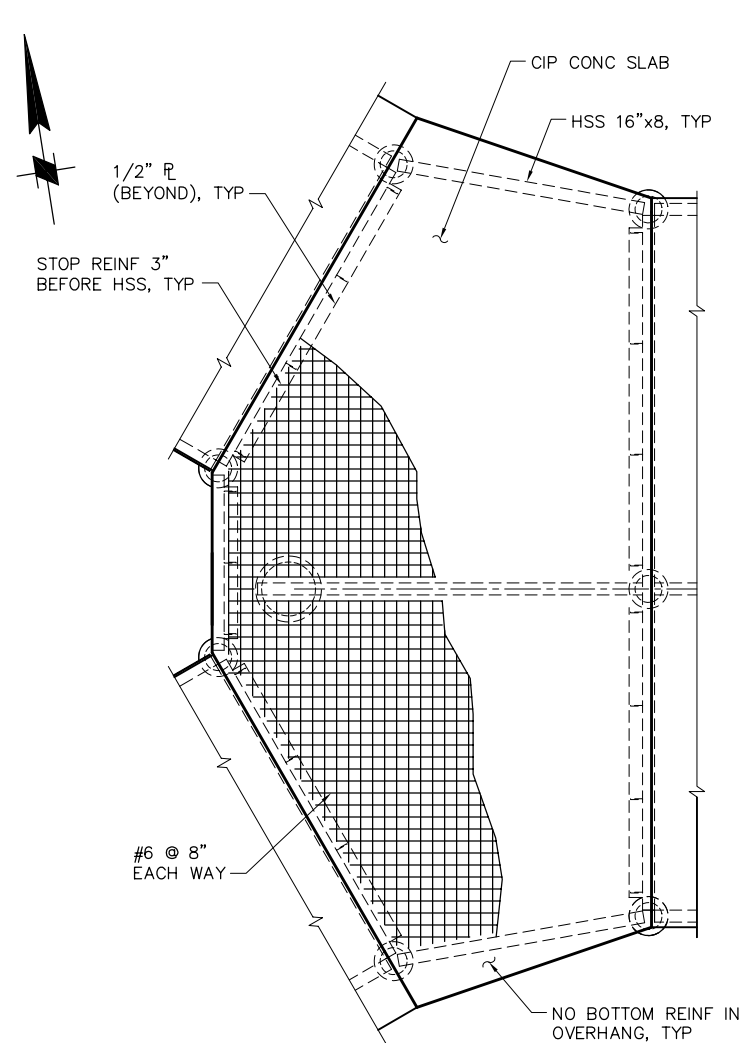
C9

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C8-C10.DWG 12/8/2008 1:24 PM



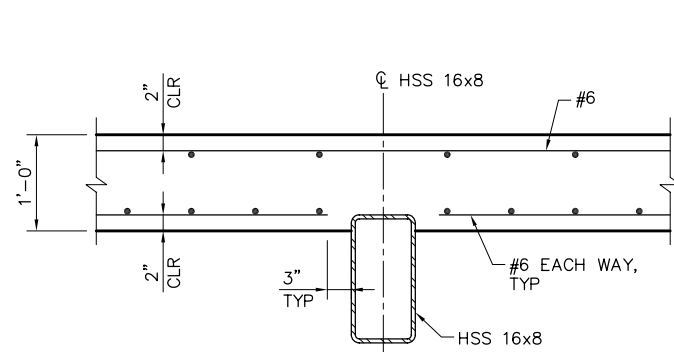
TOP SLAB REINFORCEMENT

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



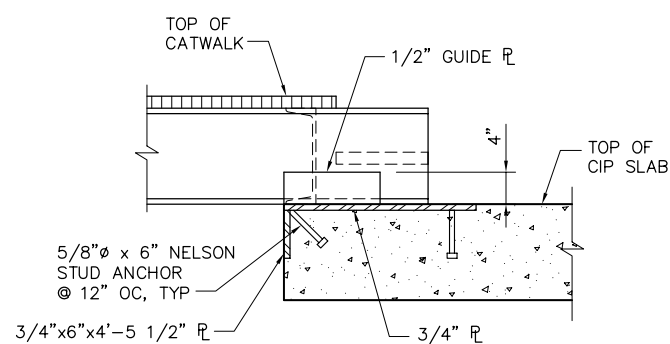
BOTTOM SLAB REINFORCEMENT

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



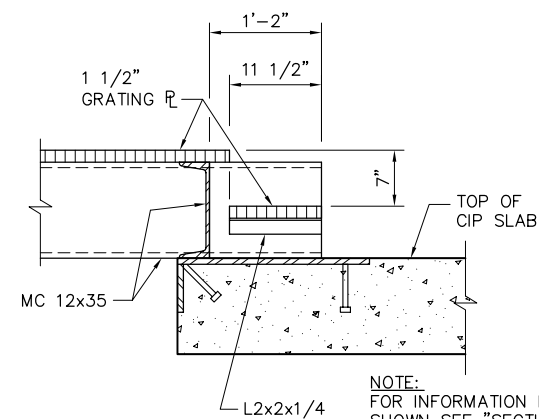
SECTION A

SCALE: 1" = 1'-0"



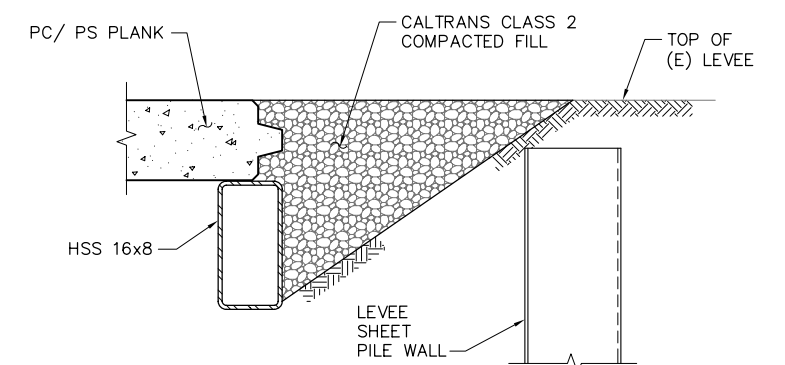
SECTION B

SCALE: 1" = 1'-0"



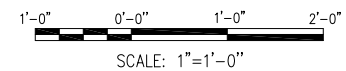
SECTION C

SCALE: 1" = 1'-0"



SECTION F

SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

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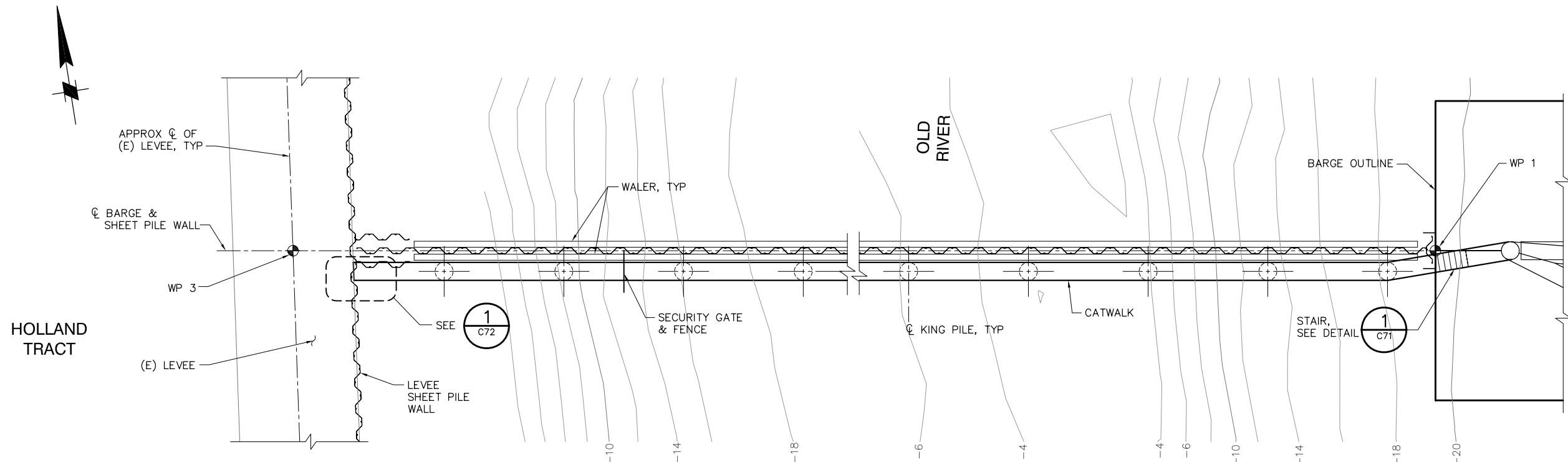
TWO GATE FISH PROTECTION PLAN

OLD RIVER
BOAT RAMP PLAN AND SECTIONS
SHEET 4

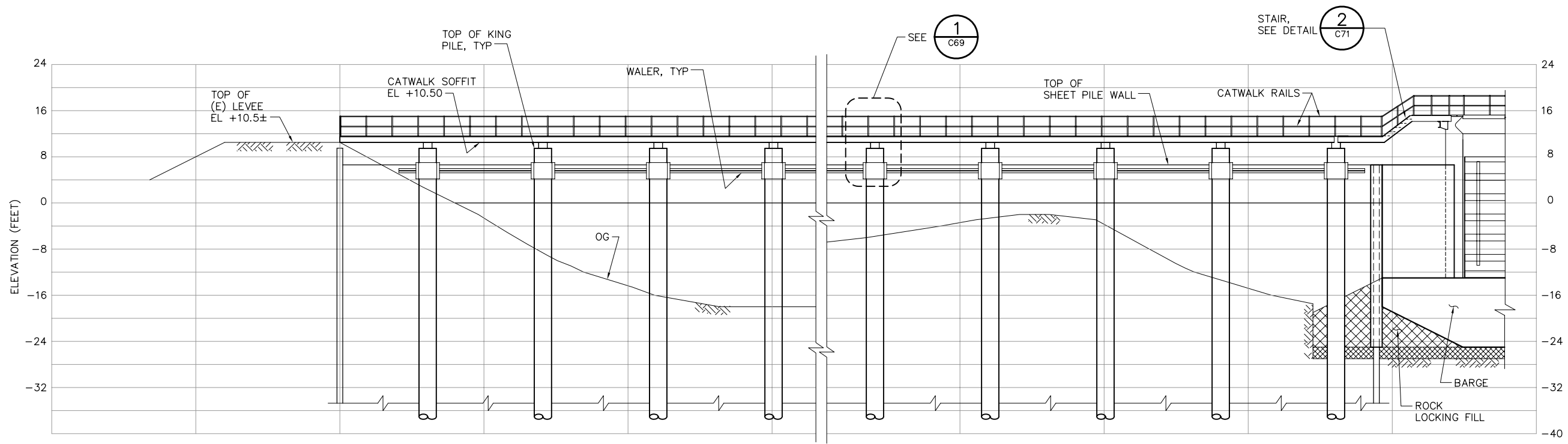
DATE 12/09/08

SHEET 13 OF 65

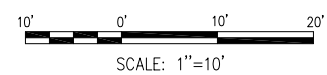
C10



PLAN
SCALE: 1"= 10'



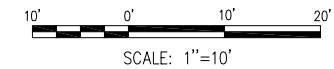
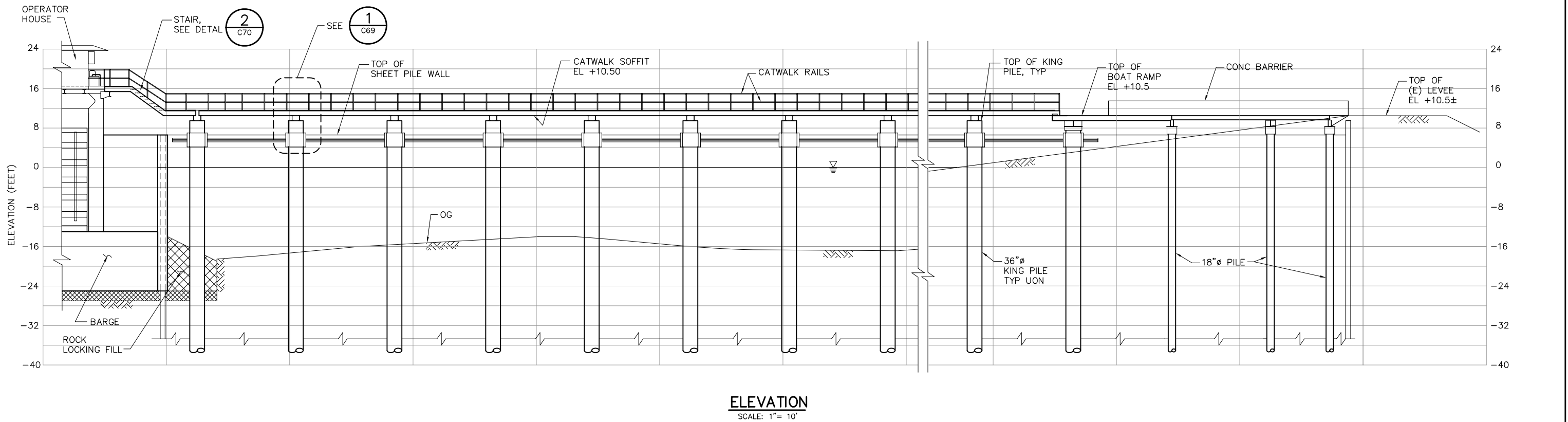
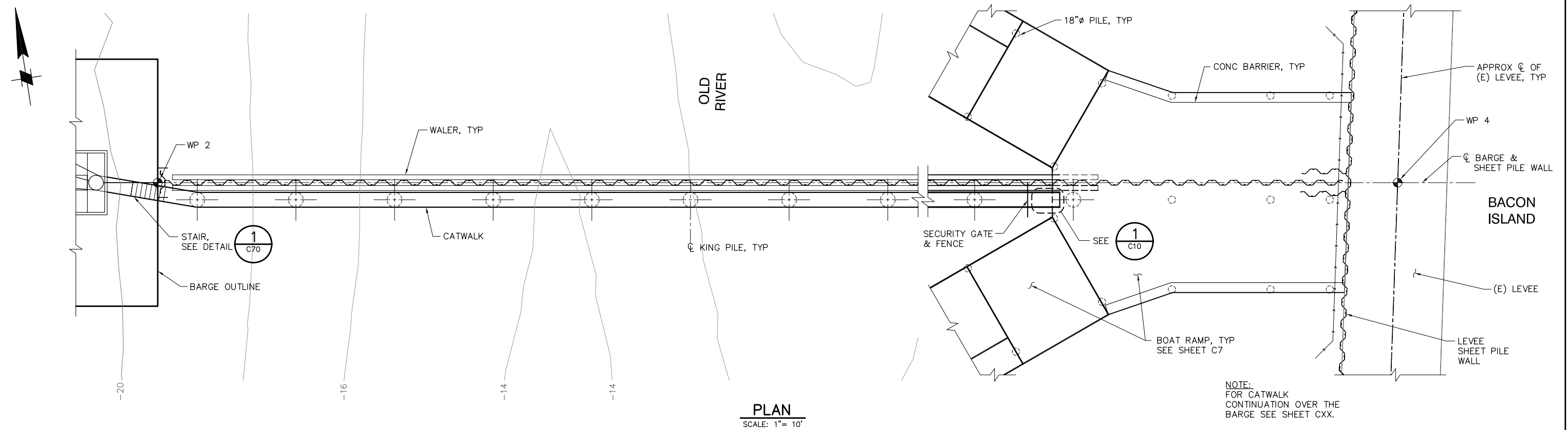
ELEVATION
SCALE: 1"= 10'



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REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411			TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
									SHEET 14 OF 65
							OLD RIVER CATWALK PLAN AND ELEVATION, SHEET 1		C11
				DSGN	JMB	DR	EP	CHK	TDB
				JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

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REVISION	DESCRIPTION	BY	DATE

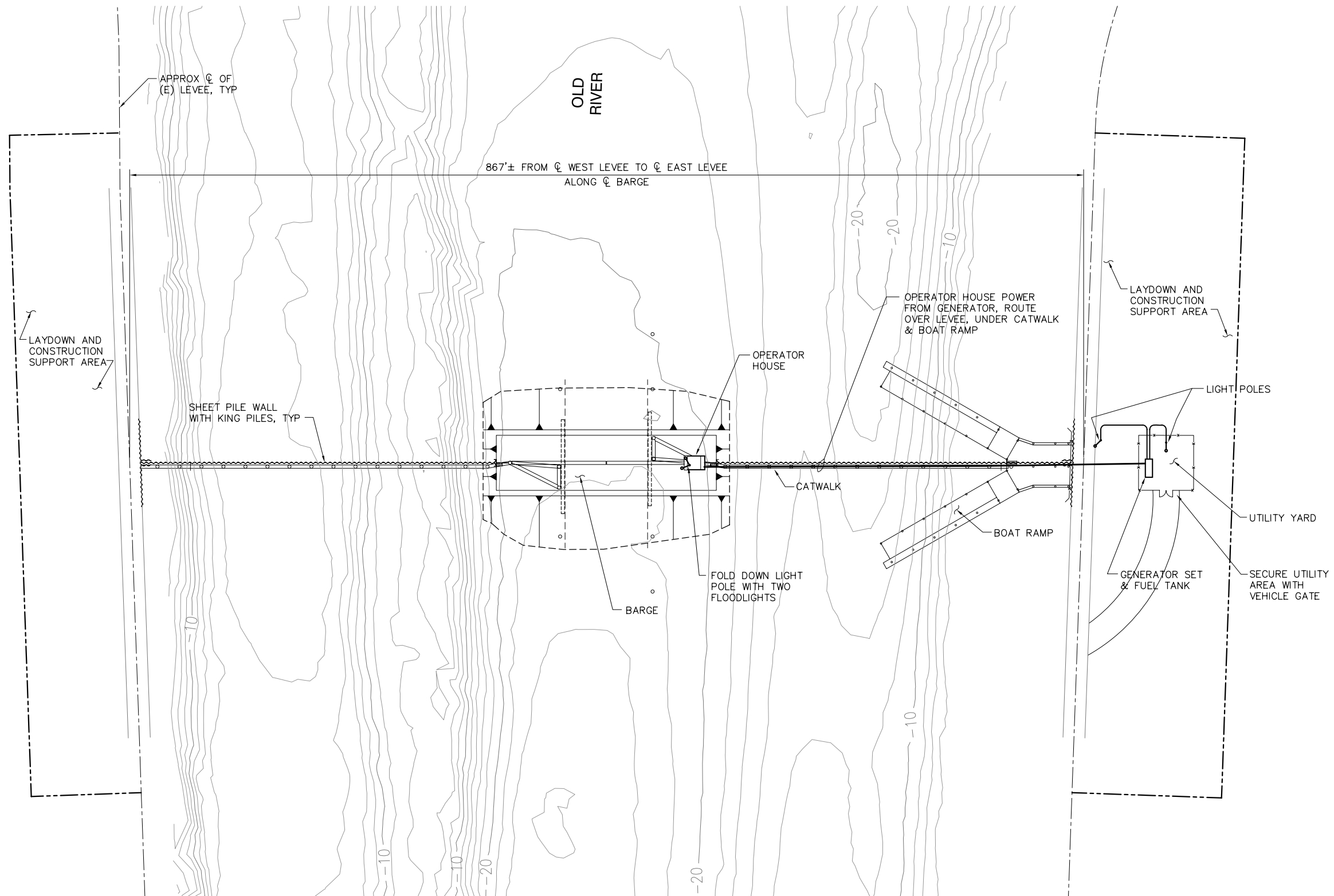
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
DSGN	JMB	DR	EP
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
OLD RIVER CATWALK PLAN AND ELEVATION, SHEET 2		SHEET 15 OF 65
		C12

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C13.DWG 12/8/2008 1:27 PM

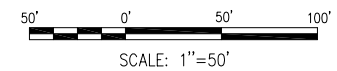


HOLLAND
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ELECTRICAL SITE PLAN

SCALE: 1"= 50'



90% SUBMITTAL

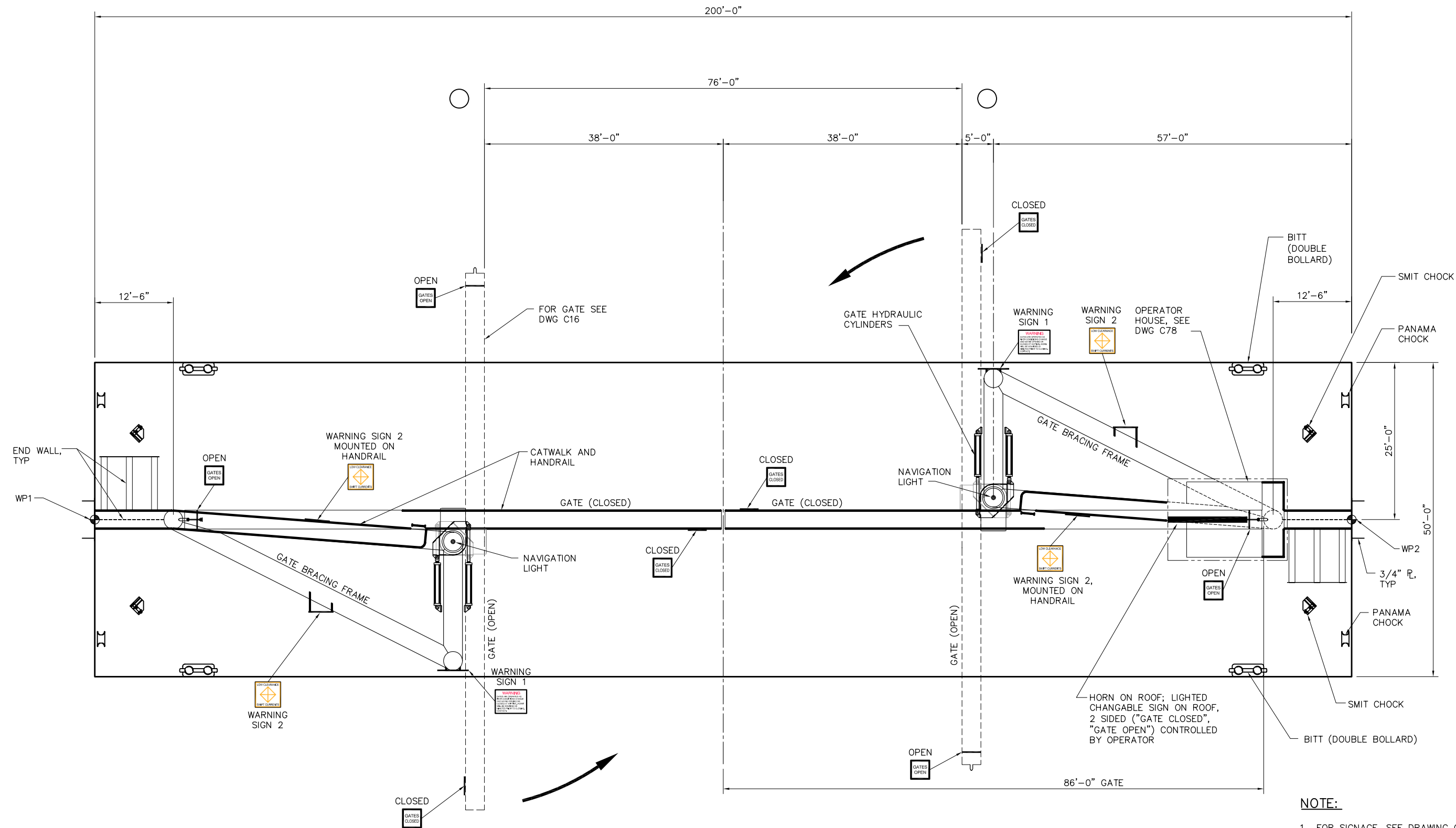
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411					
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JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE	12/09/08
OLD RIVER ELECTRICAL SITE PLAN		SHEET	16 OF 65
			C13

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

8'-0" 0'-0" 8'-0" 16'-0"
SCALE: 1/8"=1'-0"

90% SUBMITTAL

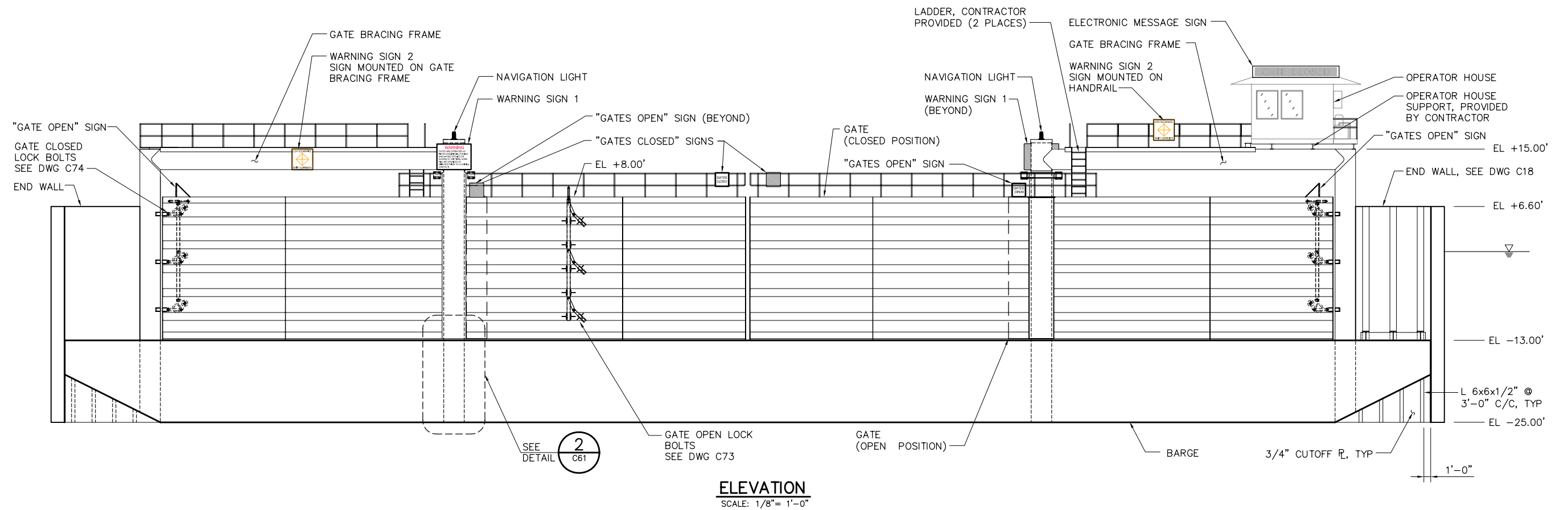
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

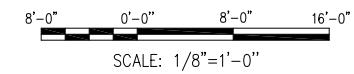
TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
OLD RIVER BARGE GENERAL ARRANGEMENT PLAN		SHEET 17 OF 65
C14		

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C15.DWG 12/8/2008 1:29 PM



NOTES:

1. FOR SIGNAGE, SEE DRAWING C75.
2. FOR SIGNAGE MOUNTING SEE DRAWING C76.

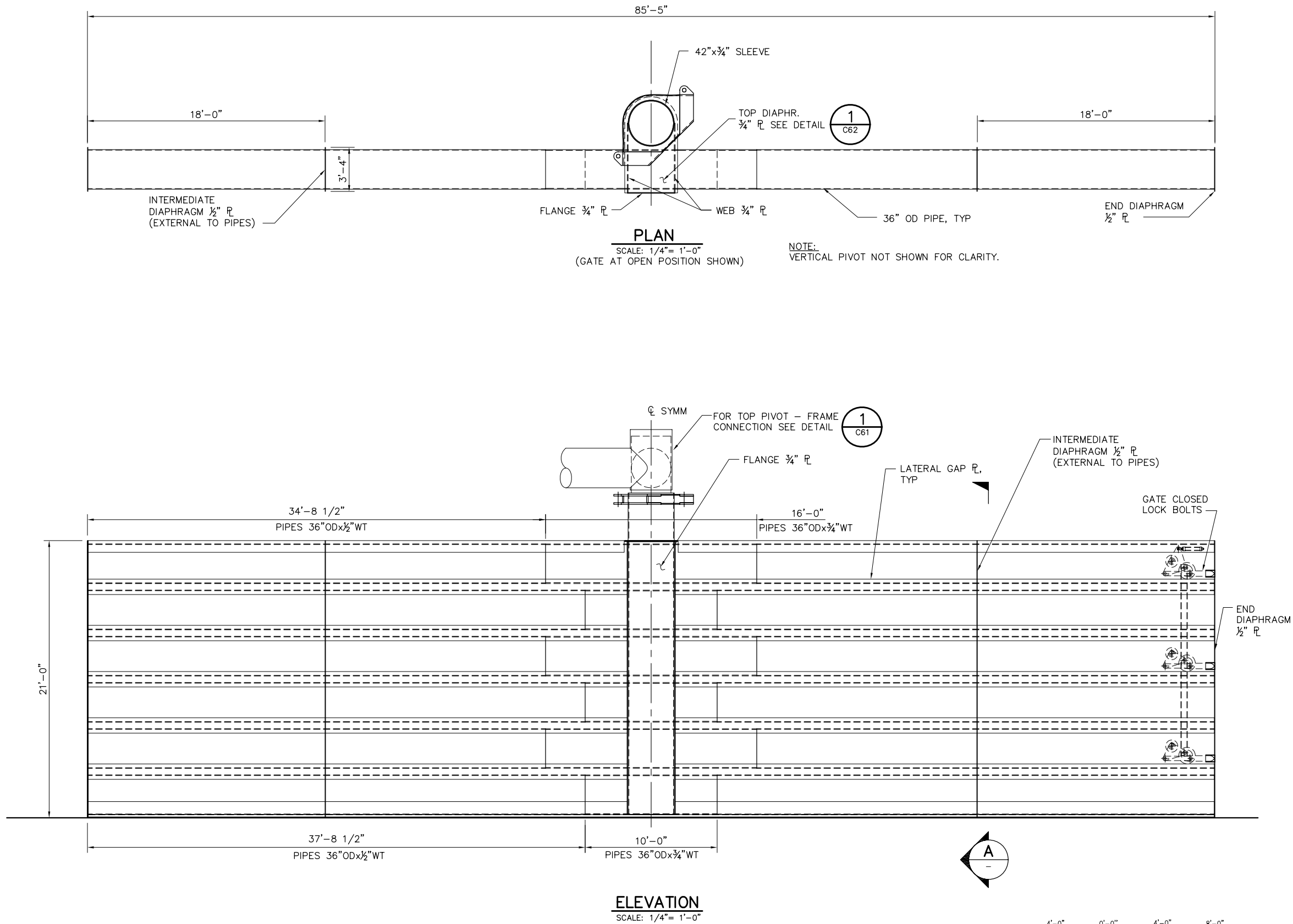


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IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

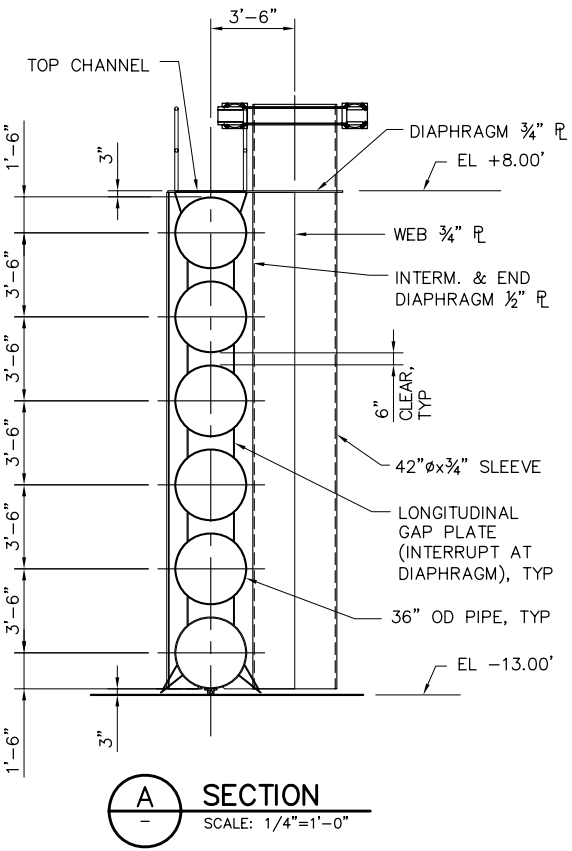
REVISION	DESCRIPTION	BY	DATE	Moffatt & Nichol 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08	
							SHEET 18 OF 65	
				DSGN JMB	DR AB	CHK TDB	OLD RIVER BARGE GENERAL ARRANGEMENT ELEVATION	C15
				JOB NO. 6097-03	SUBMITTED BY RMR	TITLE		

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NOTE:

BOTTOM GATE PIPE (36"Ø) SHALL NOT BE BUOYANT. ONLY UPPER FIVE GATE PIPES SHALL BE BUOYANT.



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JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

TWO GATE FISH PROTECTION PLAN

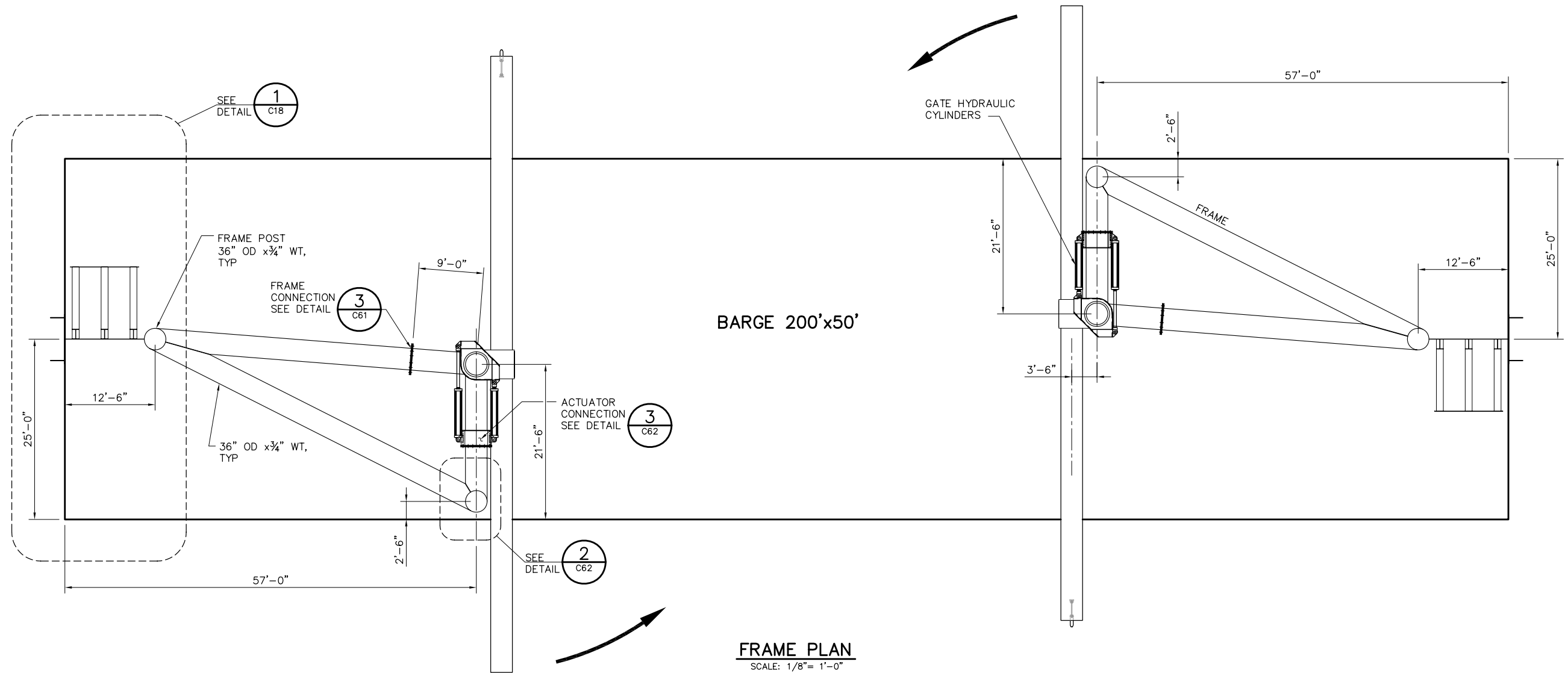
DATE 12/09/08

SHEET 19 OF 65

OLD RIVER
GATE SCANTLINGS

C16

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C17.DWG 12/8/2008 1:31 PM



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

8'-0" 0'-0" 8'-0" 16'-0"
SCALE: 1/8"=1'-0"

90% SUBMITTAL

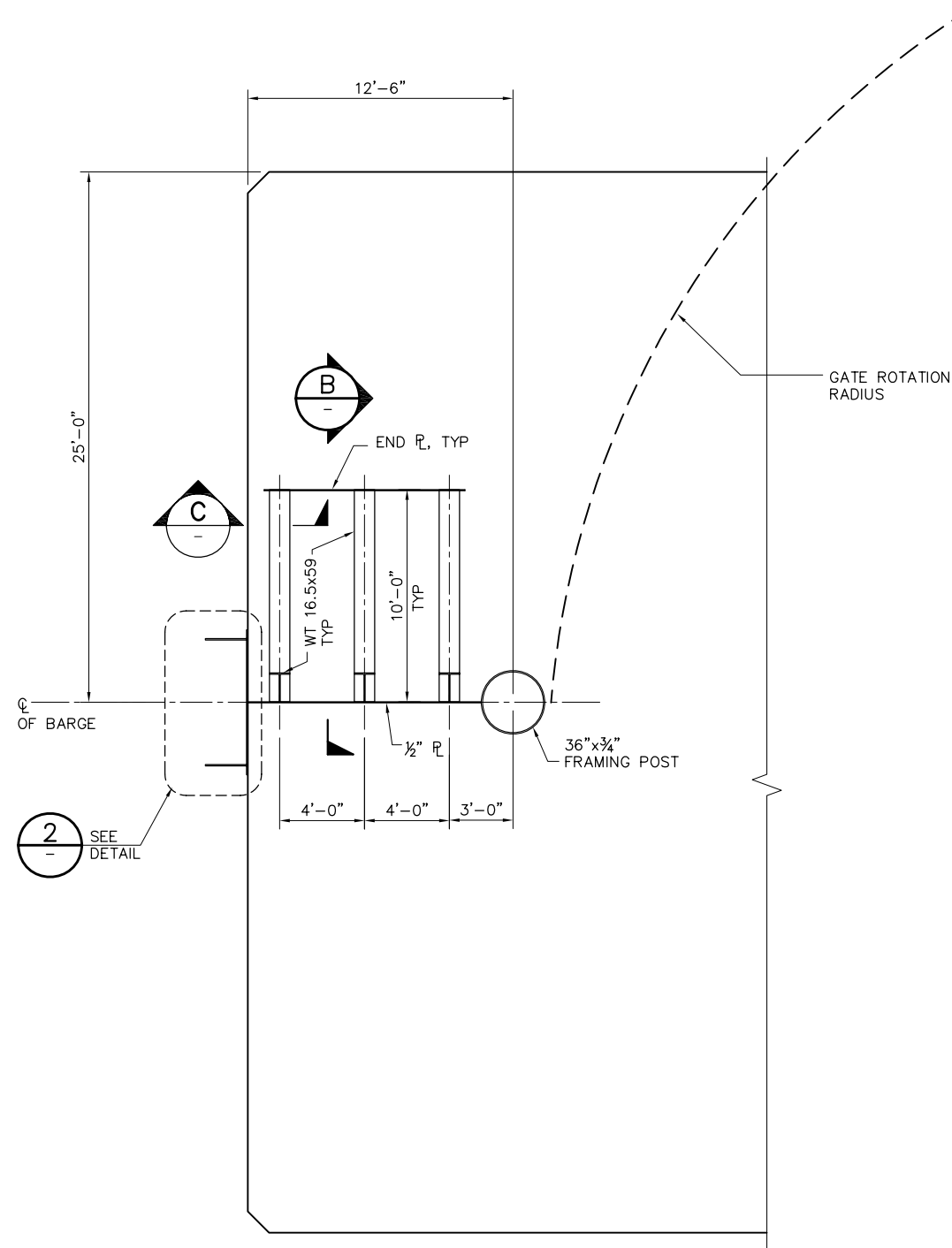
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

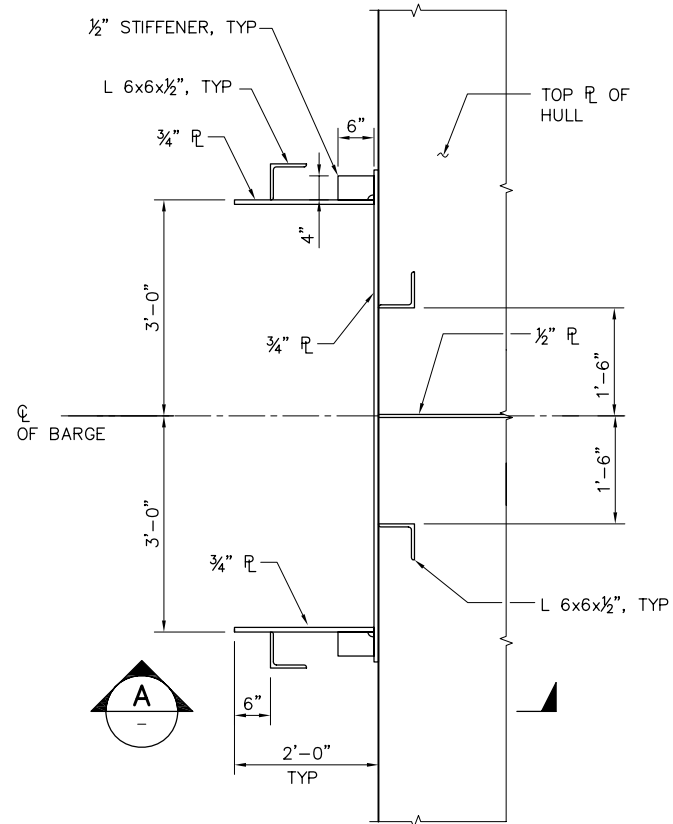
TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
OLD RIVER GATE FRAMING LAYOUT		SHEET 20 OF 65
		C17

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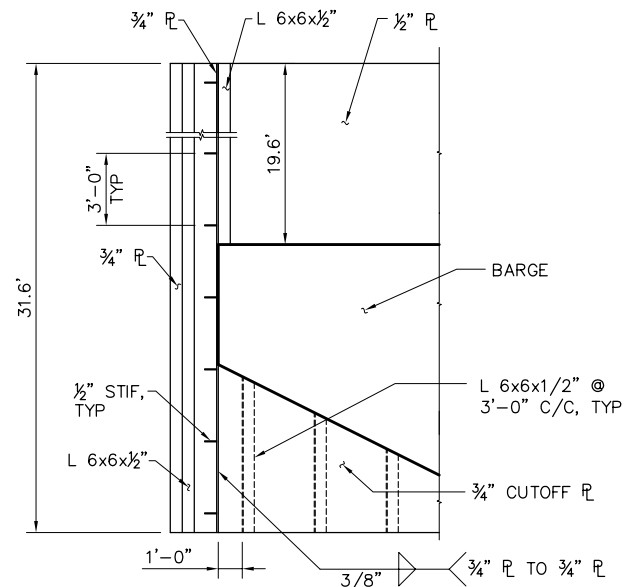


PLAN

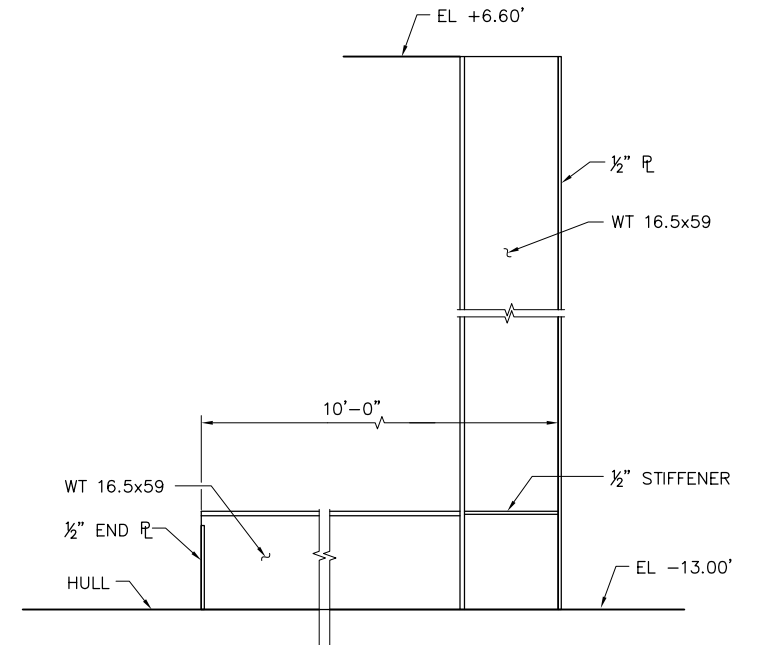
1 DETAIL
C17 SCALE: 1/4" = 1'-0"



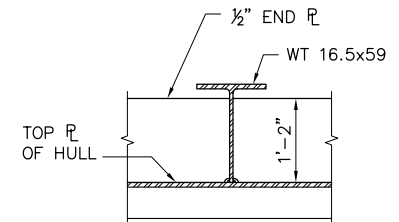
2 DETAIL
SCALE: 3/4" = 1'-0"



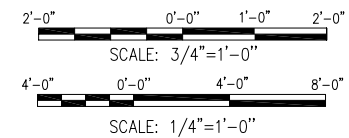
A SECTION
SCALE: 1/4" = 1'-0"



B SECTION
SCALE: 3/4" = 1'-0"



C SECTION
SCALE: 3/4" = 1'-0"



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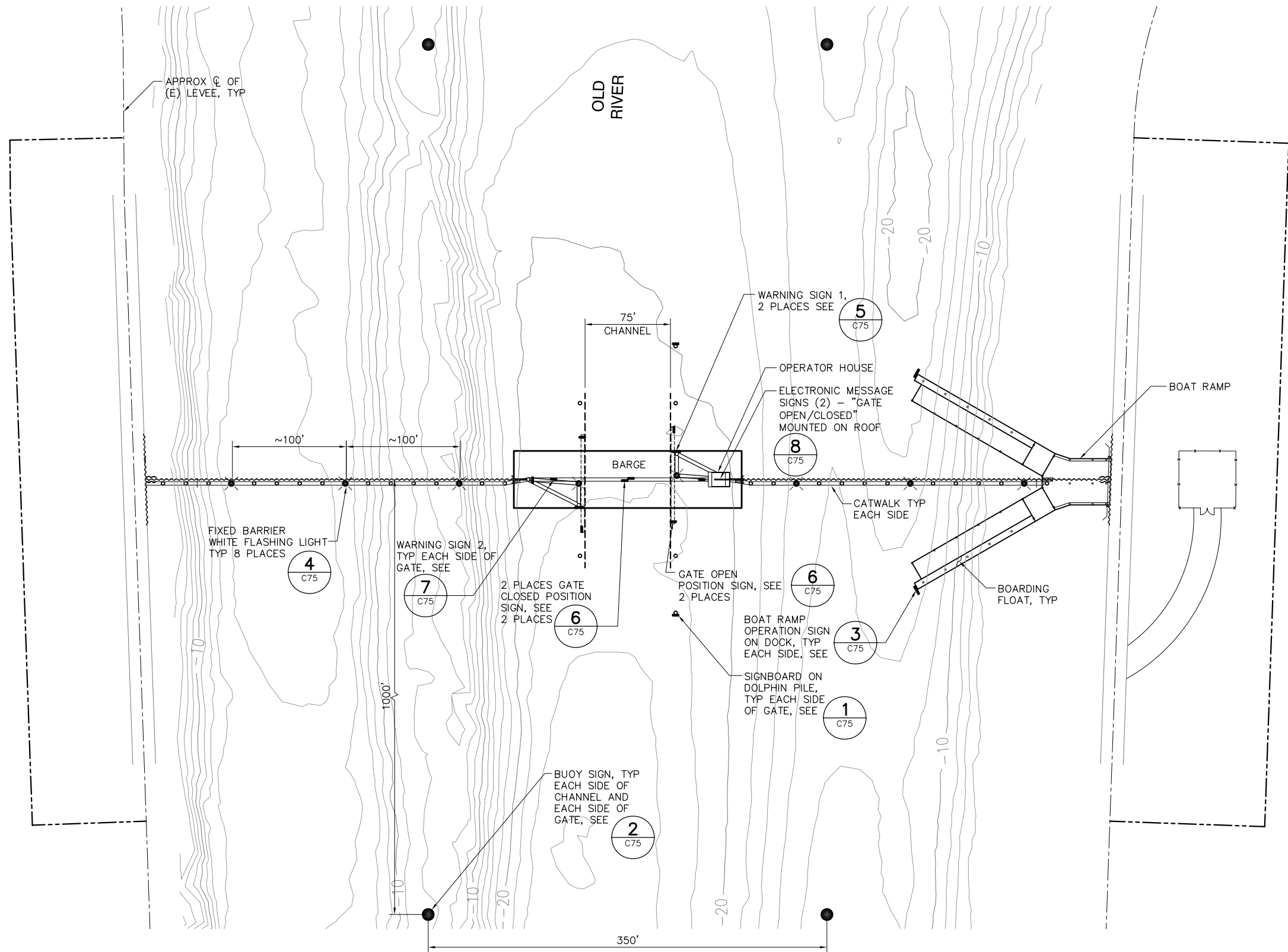
REVISION	DESCRIPTION	BY	DATE

 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411			
DSGN	JMB	DR	AB
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
OLD RIVER END WALL SCANTLINGS		SHEET 21 OF 65
		C18

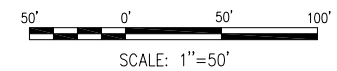
P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C19.DWG 12/8/2008 1:32 PM

HOLLAND
TRACT



BACON
ISLAND

SITE PLAN
SCALE: 1"= 50'



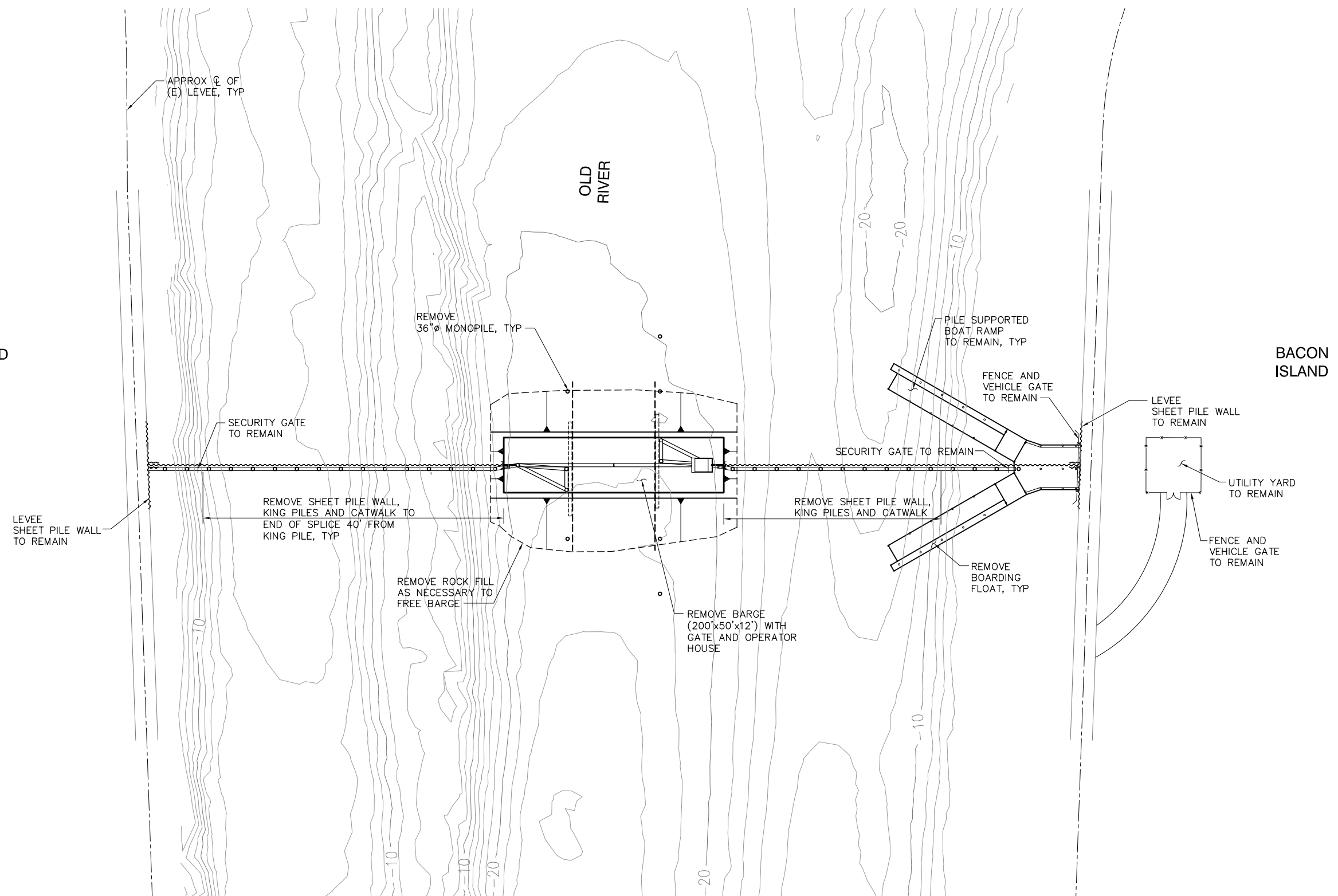
90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

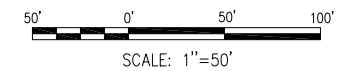
REVISION	DESCRIPTION	BY	DATE

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	DSGN RBD	DR TAE
JOB NO. 6097-03	SUBMITTED BY RMR	CHK TDB

TWO GATE FISH PROTECTION PLAN OLD RIVER AIDS TO NAVIGATION PLAN	DATE 12/09/08
	SHEET 22 OF 65
C19	



SCALE: 1"= 50'



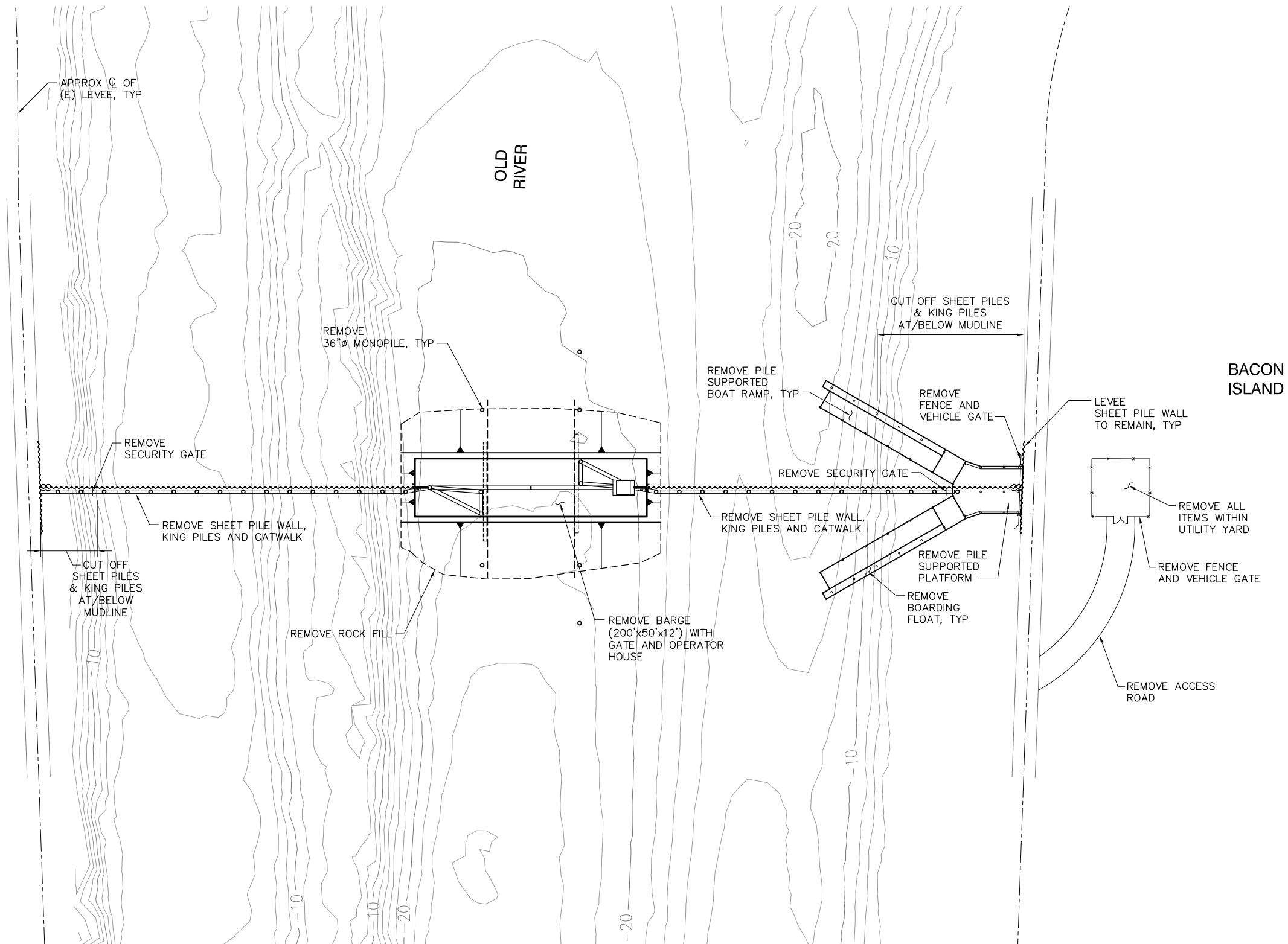
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT –
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REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
							SHEET 23 OF 65
					OLD RIVER TEMPORARY REMOVAL PLAN		C20
				DSGN TDB	DR EP	CHK GTH	
				JOB NO. 6097-03	SUBMITTED BY RMR	TITLE	

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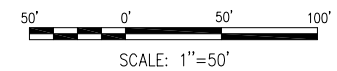
HOLLAND
TRACT



BACON
ISLAND

PERMANENT REMOVAL PLAN

SCALE: 1"= 50'



SCALE: 1"=50'

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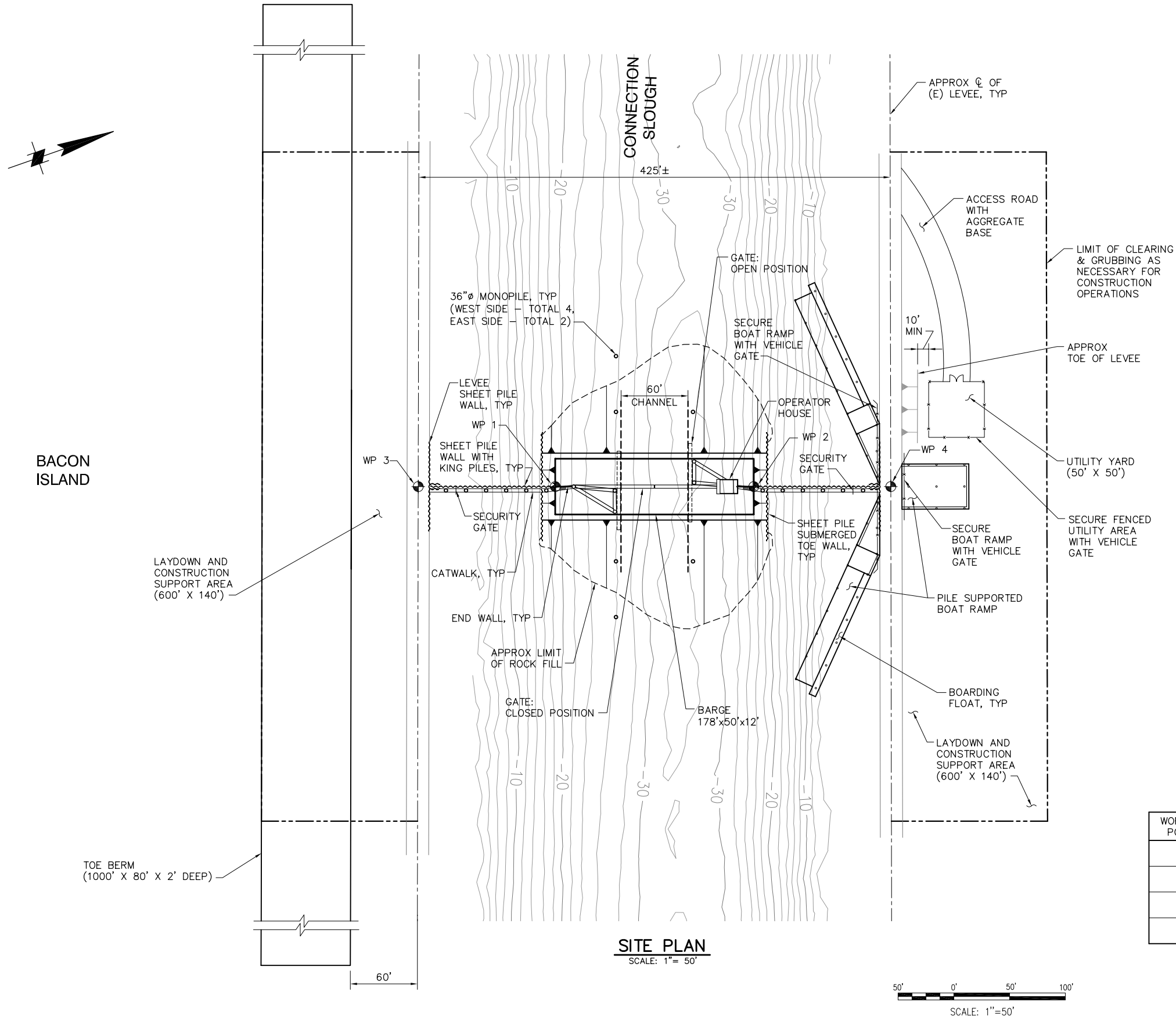
REVISION	DESCRIPTION	BY	DATE

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

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
OLD RIVER PERMANENT REMOVAL PLAN		SHEET 24 OF 65
		C21

Connection Slough Site

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SITE PLAN
SCALE: 1" = 50'

WORK POINT DATA

WORKING POINT	NORTHING	EASTING	FEATURE
1	2189371.89	6265762.17	CL OF NORTH SIDE OF BARGE
2	2189539.90	6265820.98	CL OF SOUTH SIDE OF BARGE
3	2189255.91	6265721.56	CL OF WEST LEVEE AND GATE
4	2189655.88	6265861.59	CL OF EAST LEVEE AND GATE

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REVISION	DESCRIPTION	BY	DATE



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(925) 944-5411

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

TWO GATE FISH PROTECTION PLAN

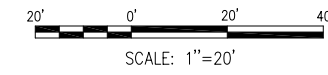
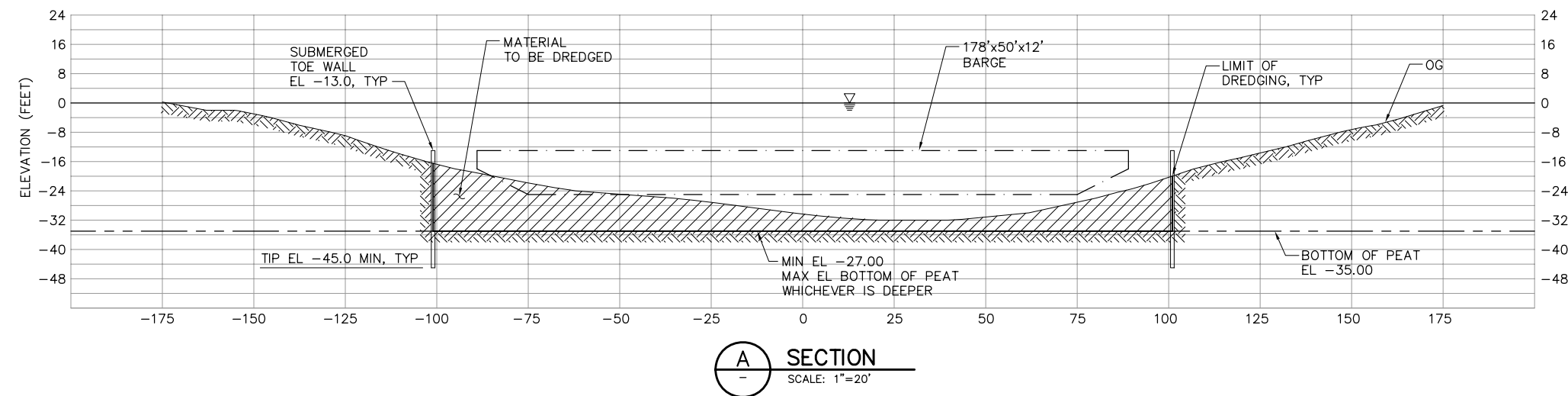
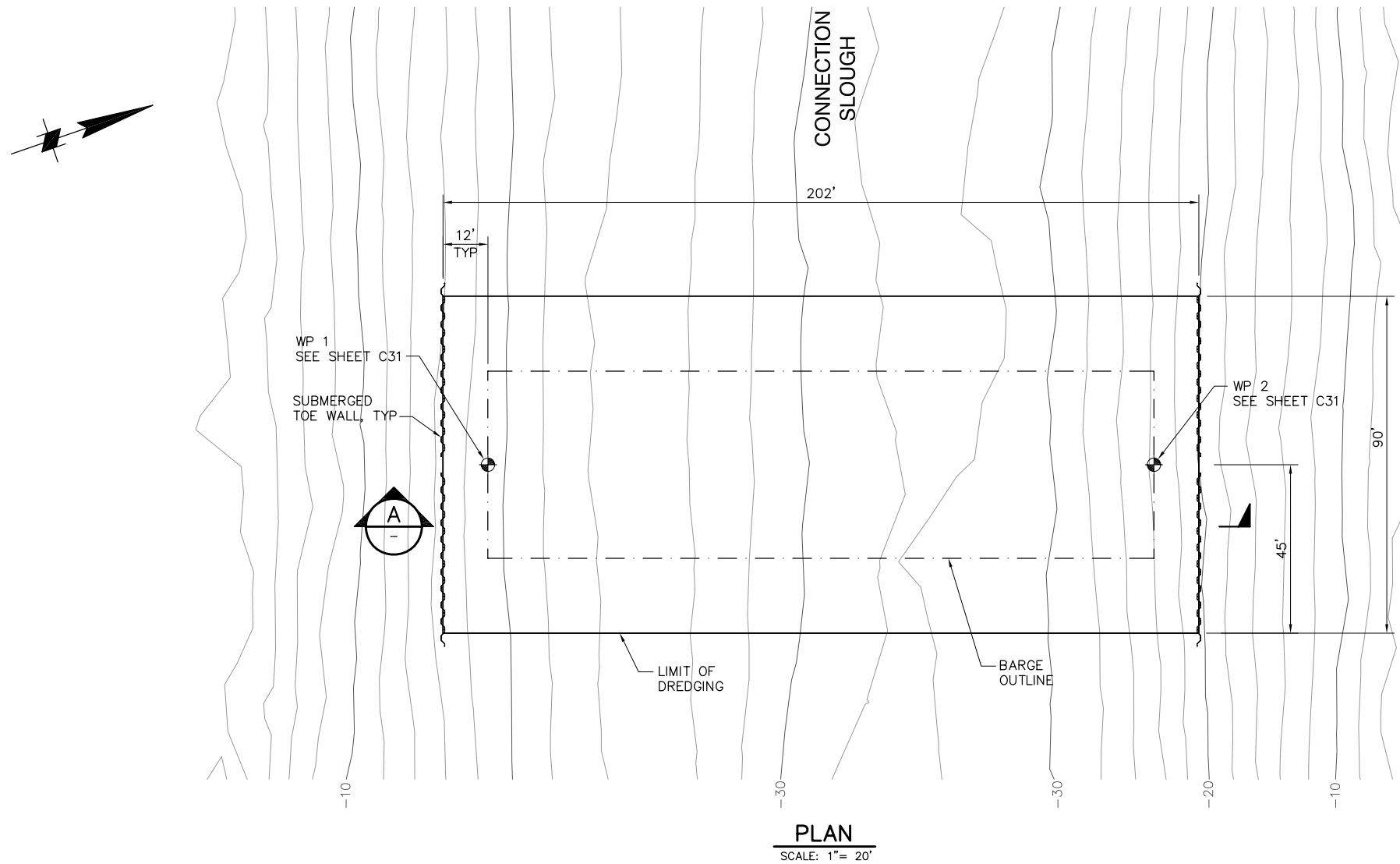
DATE 12/09/08

SHEET 25 OF 65

**CONNECTION SLOUGH
SITE PLAN**

C31

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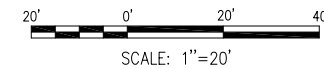
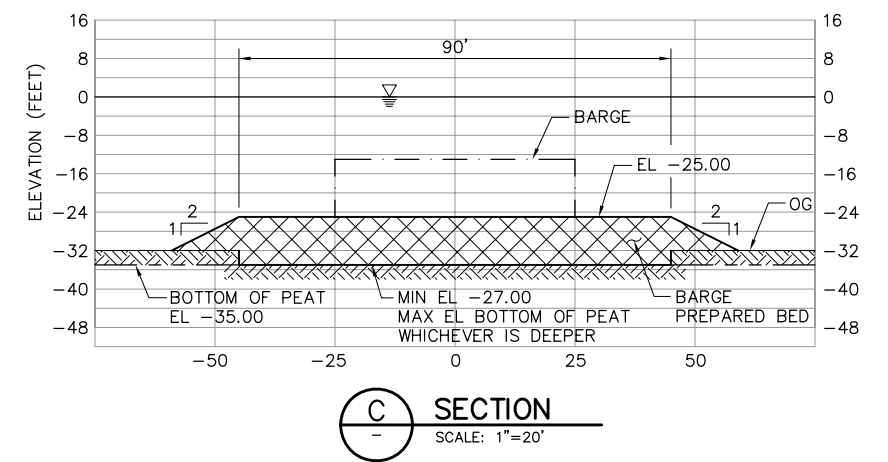
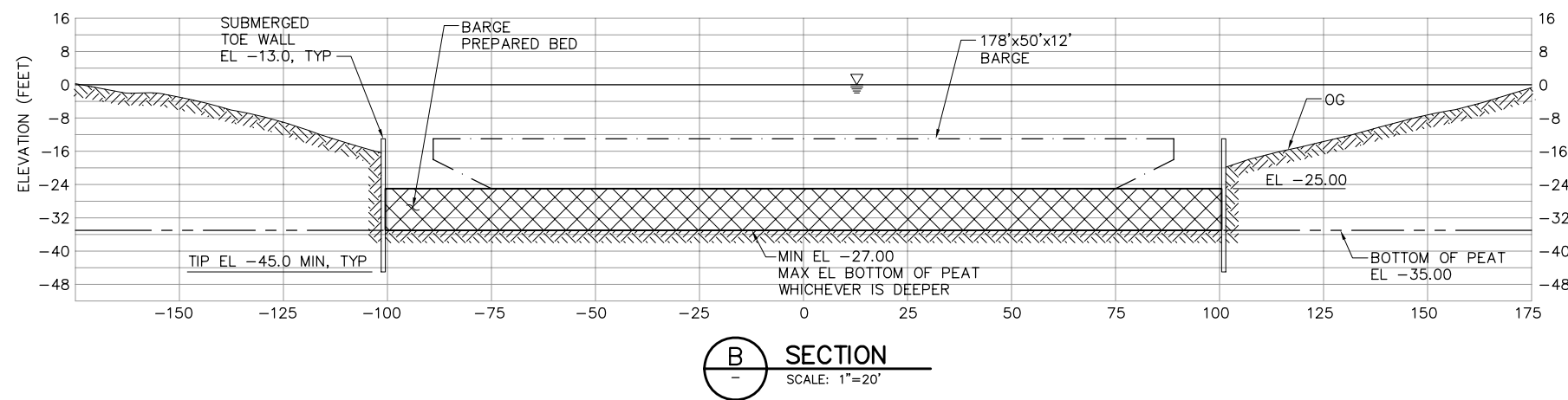
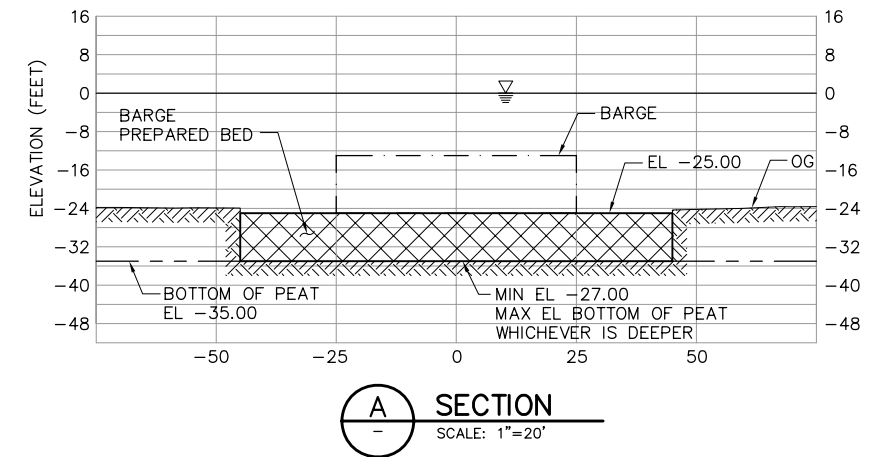
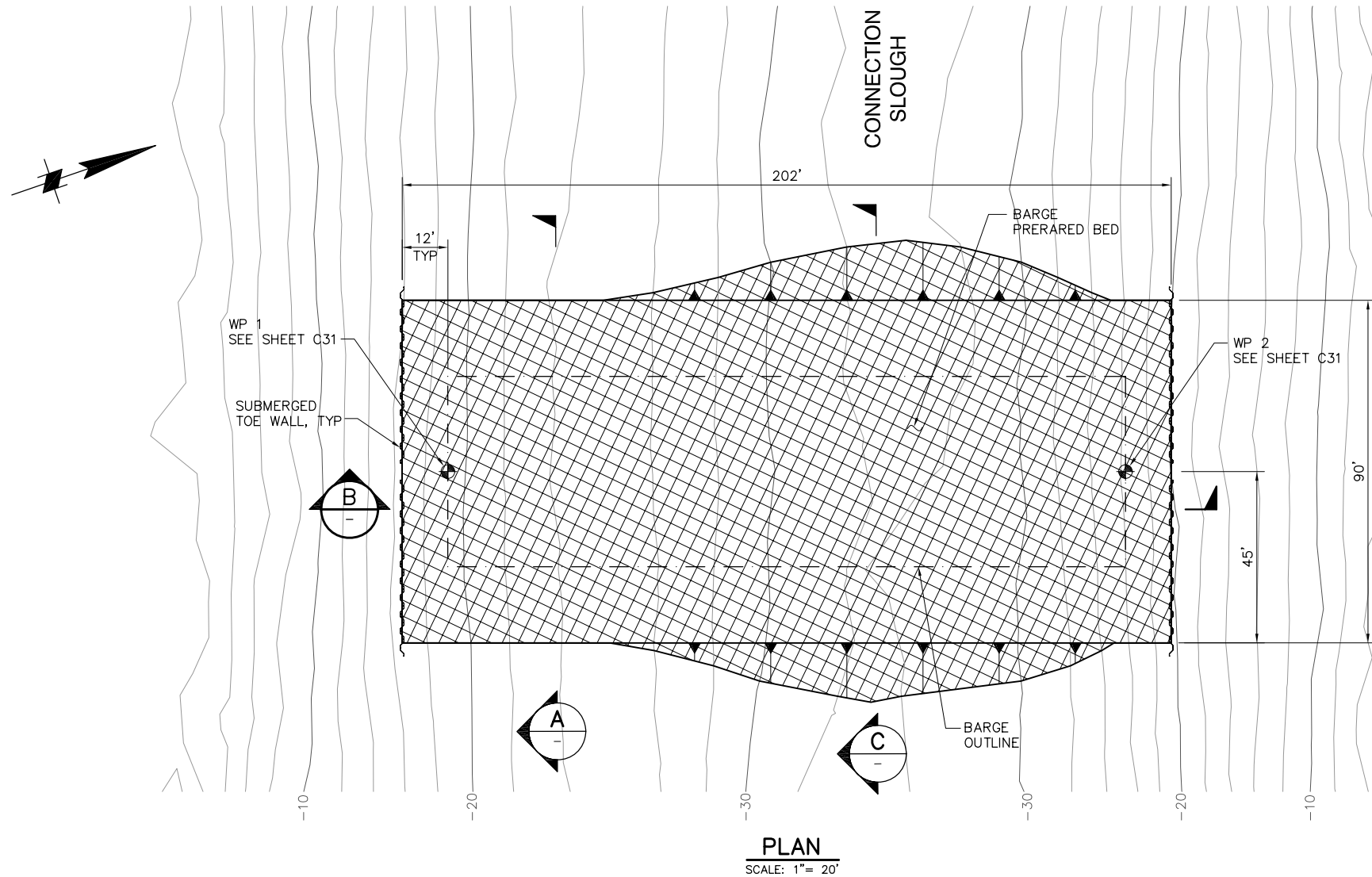


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REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08	
							SHEET 26 OF 65	
					CONNECTION SLOUGH DREDGING PLAN AND SECTION		C32	
				DSGN TDB	DR EP	CHK GTH		
				JOB NO. 6097-03	SUBMITTED BY RMR		TITLE	

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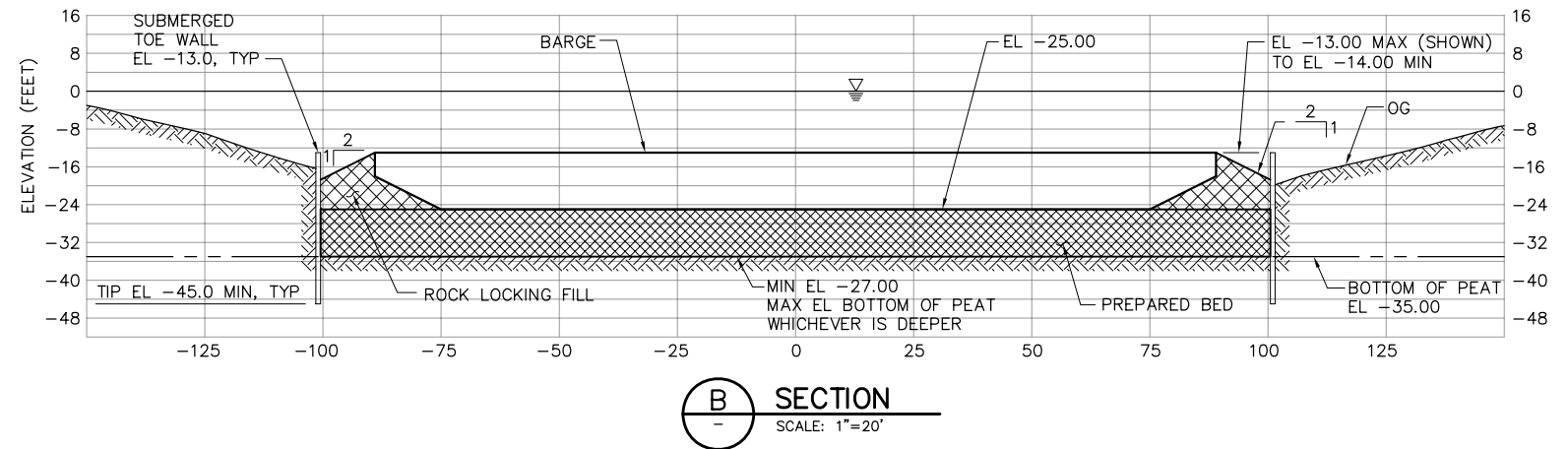
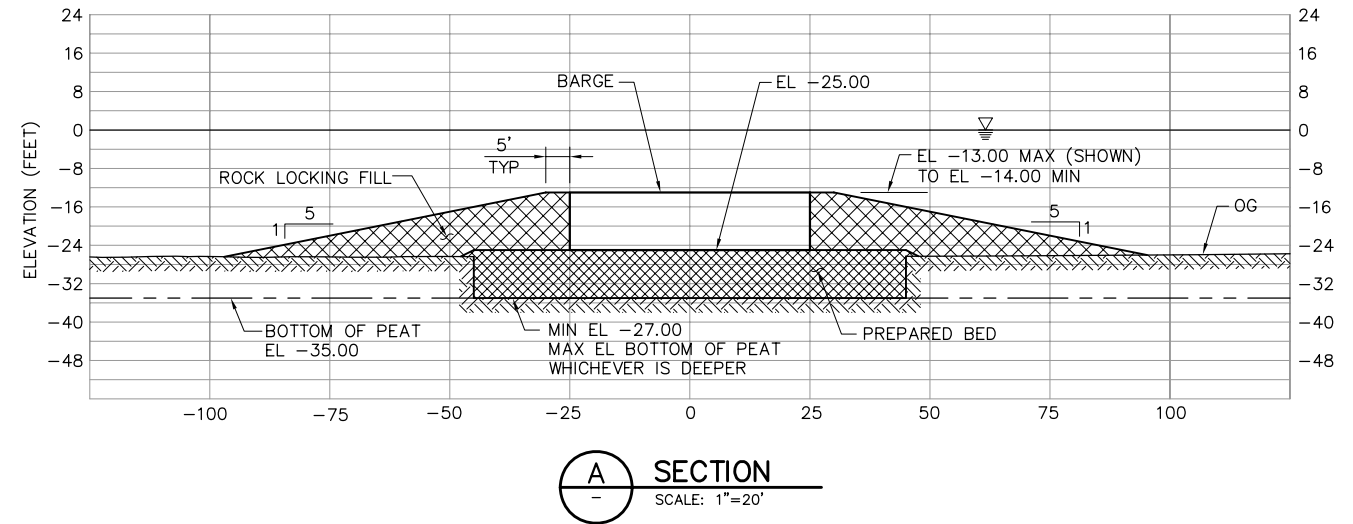
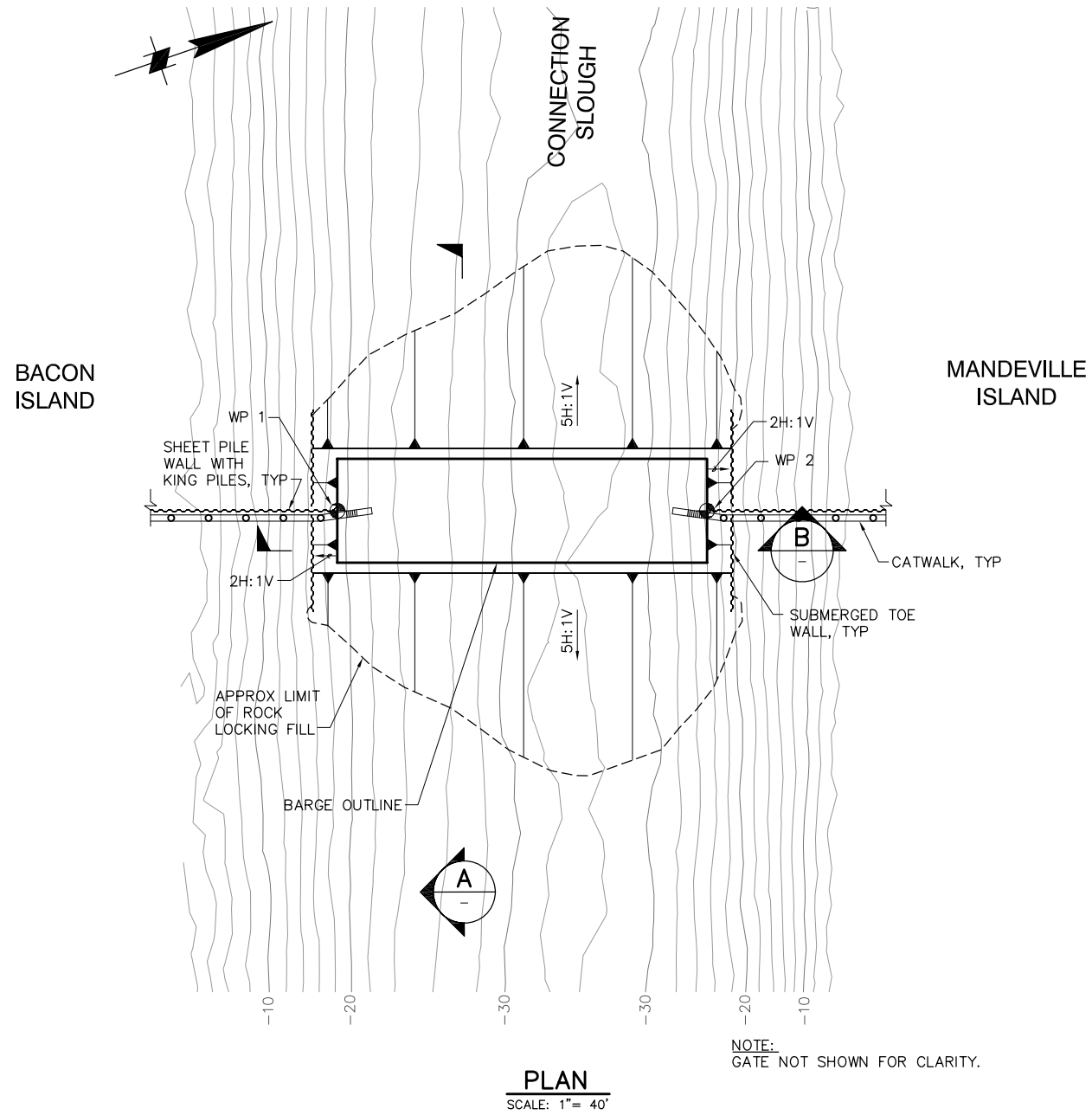
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

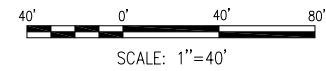
 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411			
DSGN	TDB	DR	EP
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	GTH	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH BARGE PREPARED BED		SHEET 27 OF 65
		C33

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C34.DWG 12/8/2008 1:43 PM



NOTE:
KING PILES AND SHEET PILES NEAR BARGE
SHALL BE PLACED BEFORE ROCK LOCKING FILL.



90% SUBMITTAL

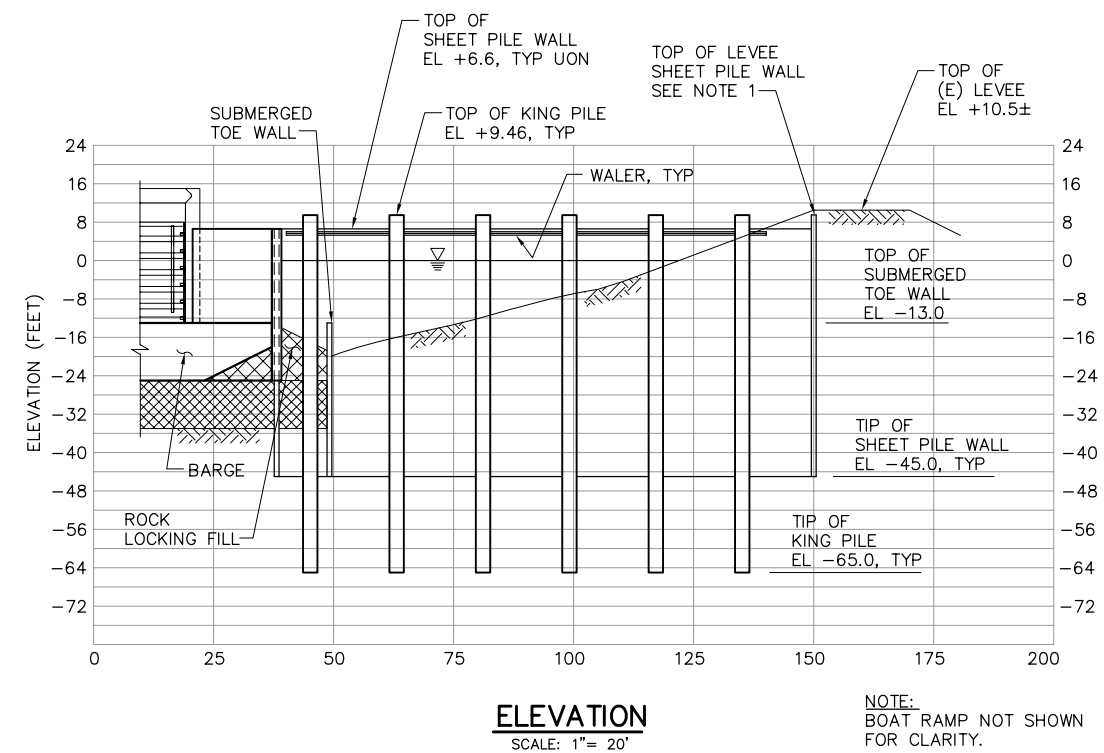
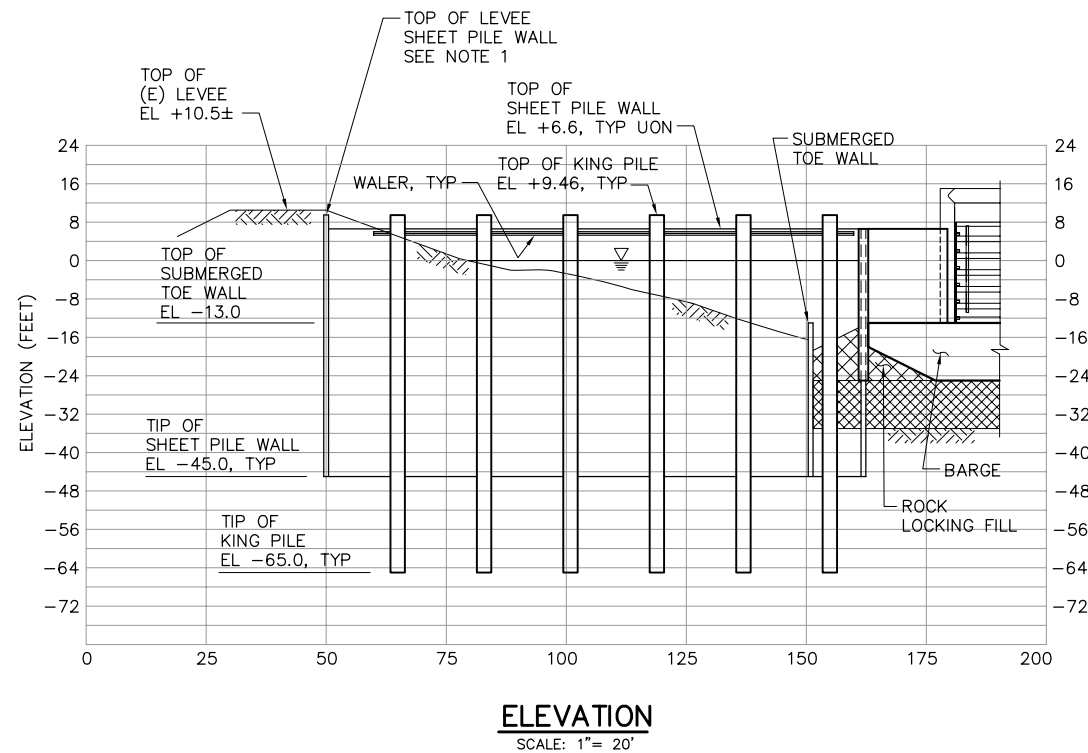
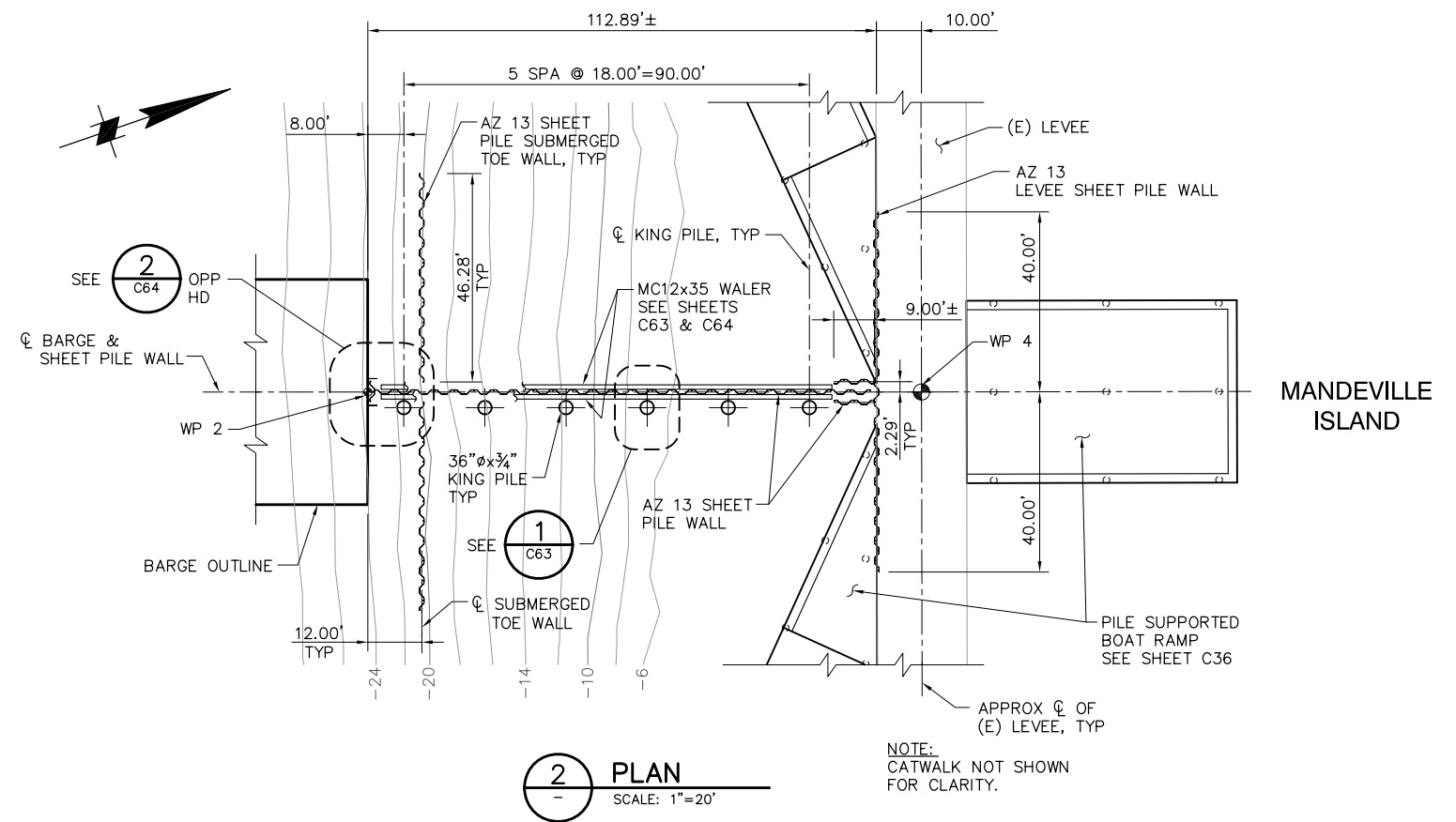
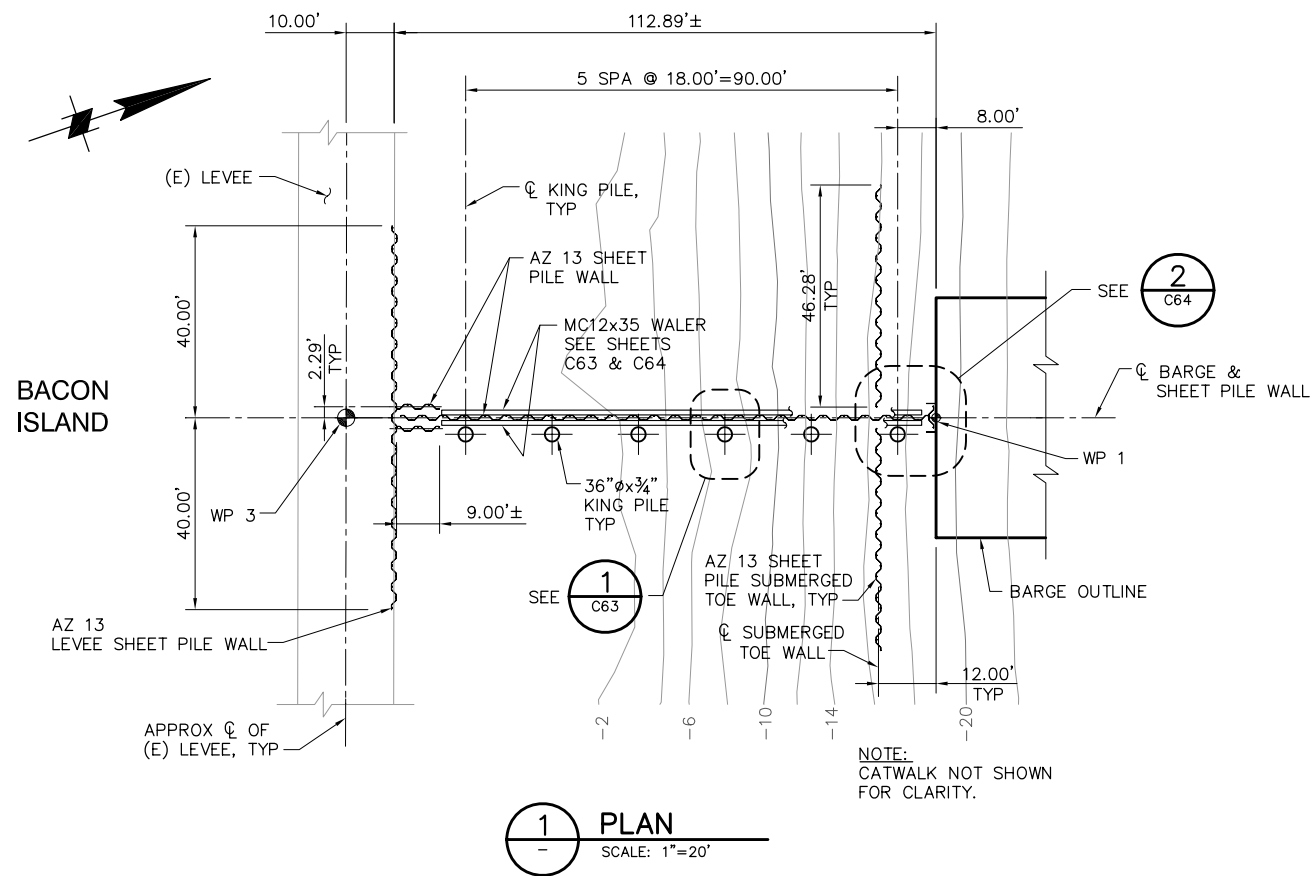
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

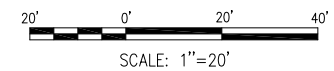
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
DSGN	JMB	DR	EP
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH APPROACH RAMP PLAN AND SECTIONS		SHEET 28 OF 65
		C34

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C35.DWG 12/8/2008 1:44 PM



- NOTES:**
1. TOP OF LEVEE SHEET PILE WALL SHALL BE 6" BELOW TOP OF (E) LEVEE.



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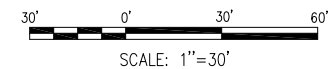
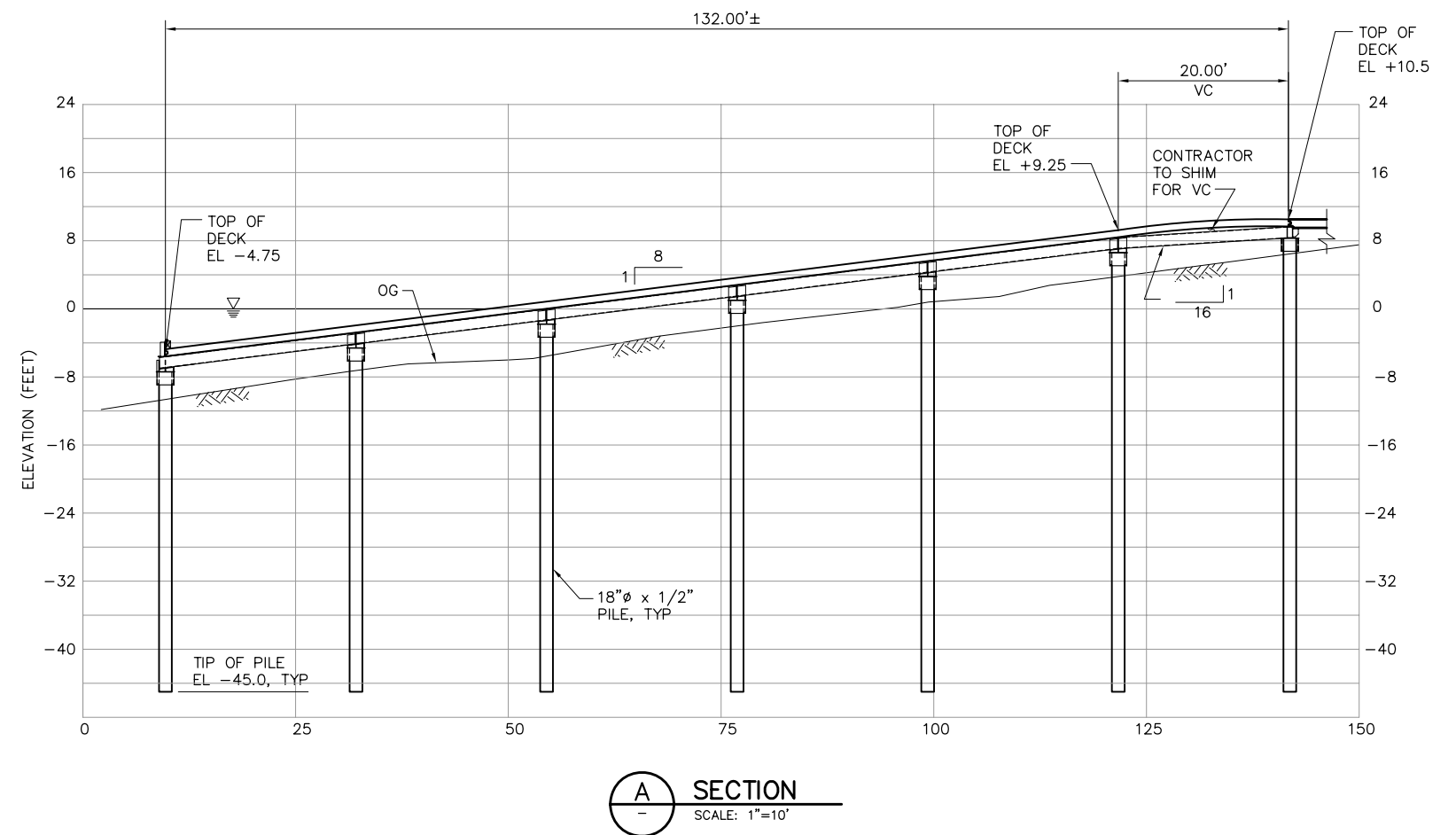
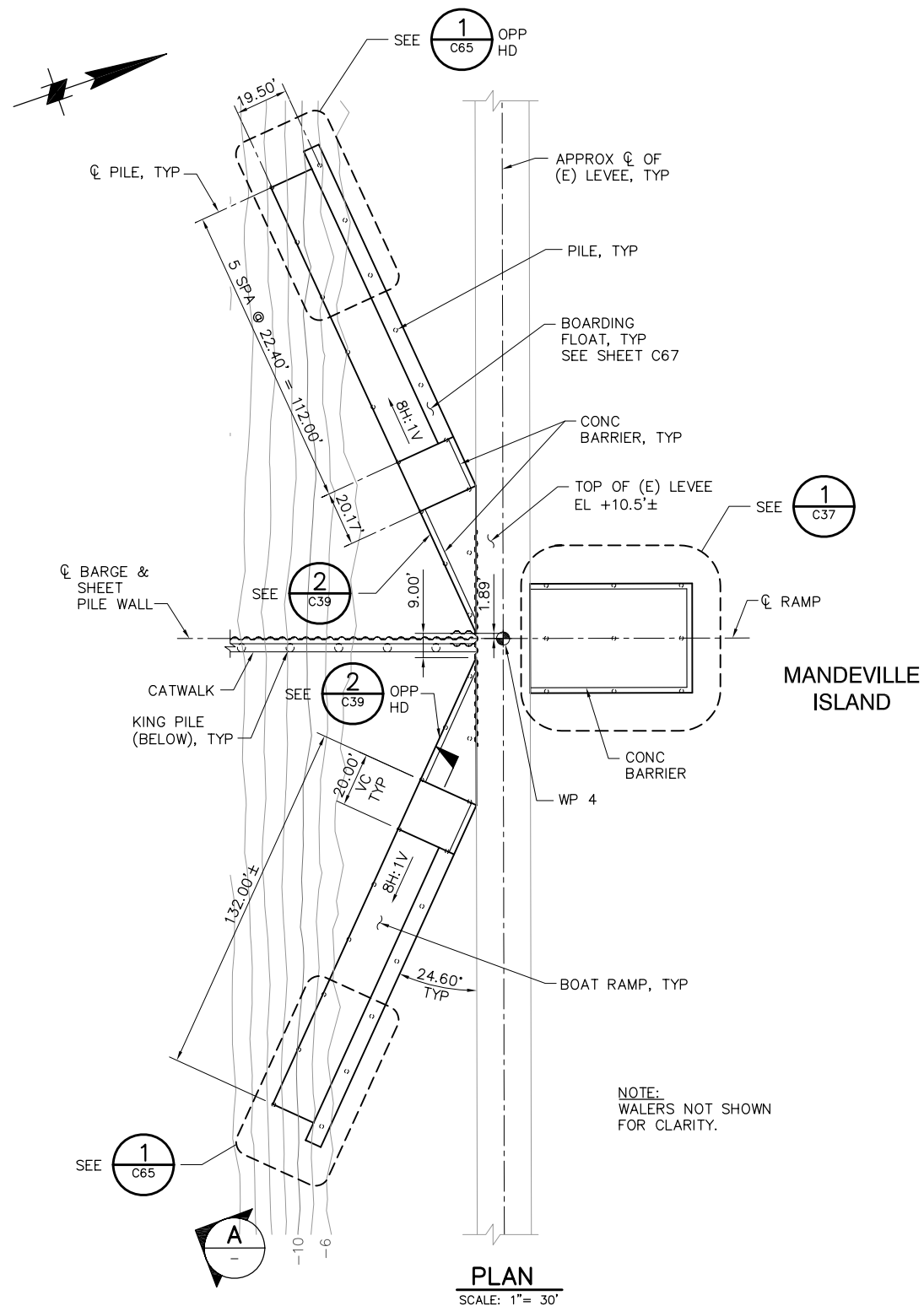
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH SHEET PILE WALL ARRANGEMENT PLAN AND ELEVATION		SHEET 29 OF 65
C35		

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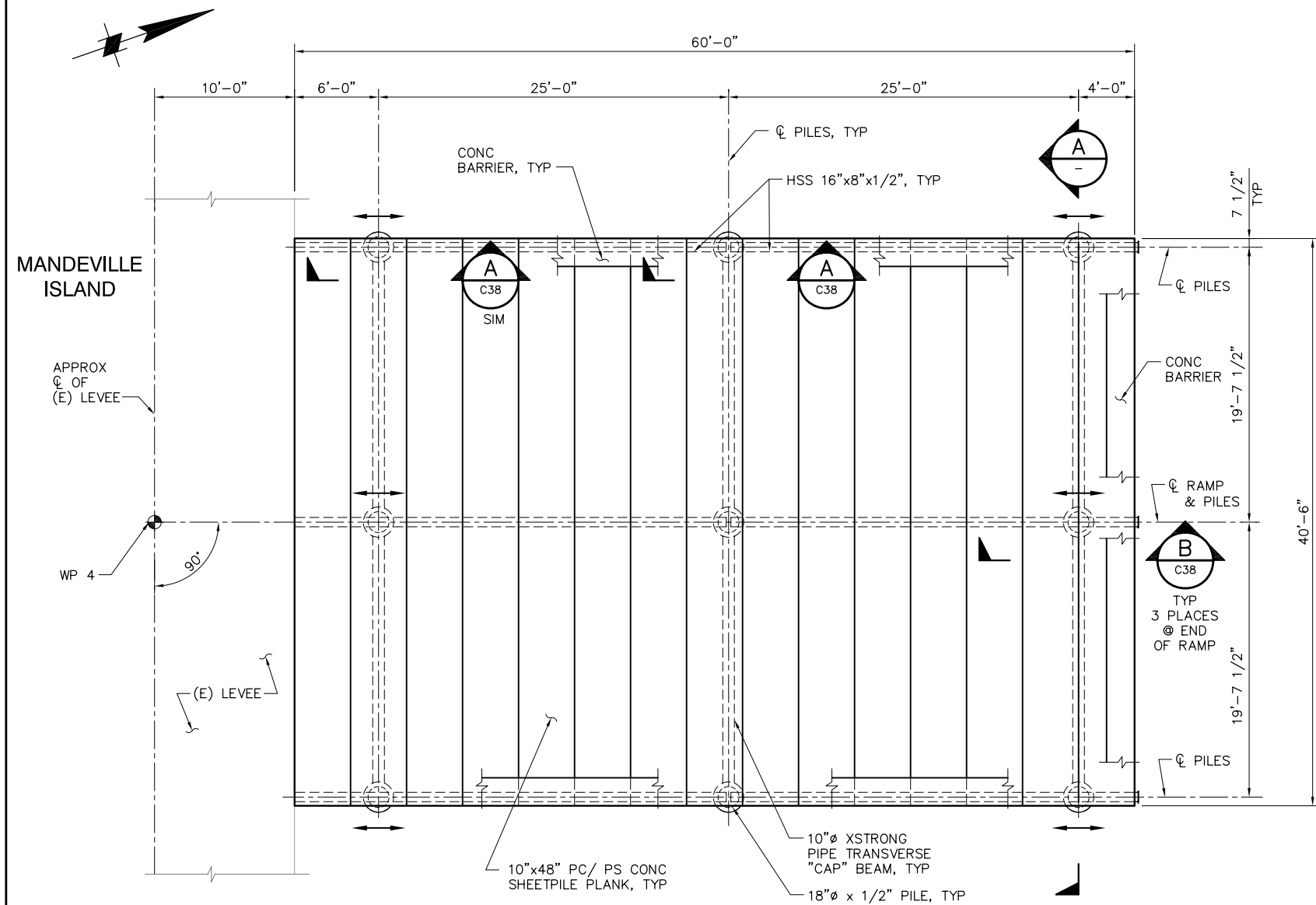
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH BOAT RAMP PLAN AND SECTIONS SHEET 1		SHEET 30 OF 65
C36		

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C37-C39.DWG 12/8/2008 1:55 PM



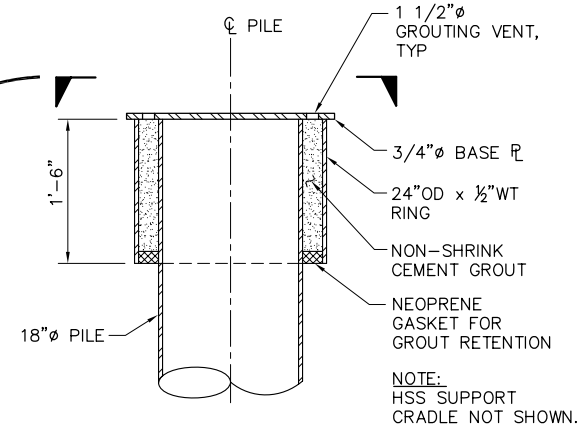
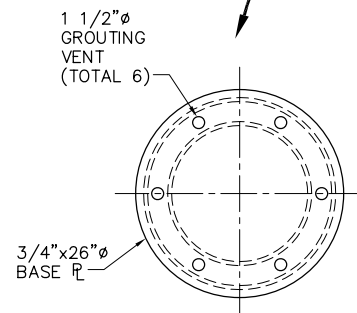
1 DETAIL
SCALE: 3/16" = 1'-0"

NOTES:

1. ALL PC/PS PLANKS SHALL BEAR ON/AGAINST NEOPRENE "UNDERLAYMENT" BEARING STRIP WITH A MINIMUM 1/8" THICKNESS.

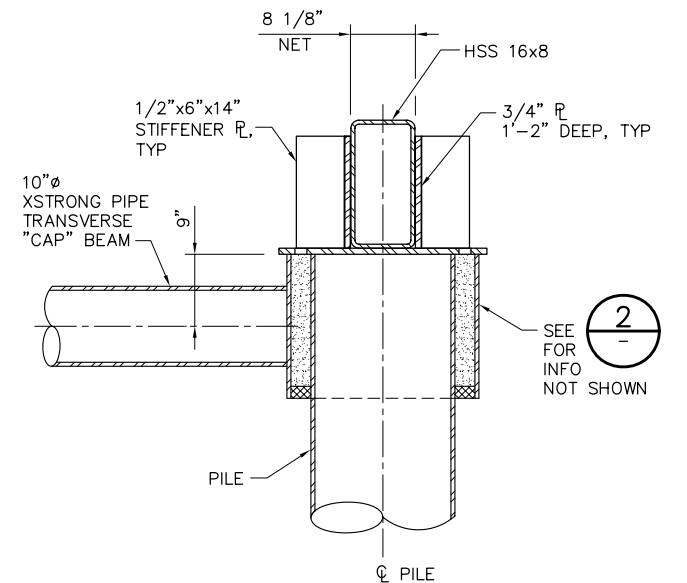
LEGEND

→ HSS 16x8x1/2 CONTINUOUS THRU SUPPORT



TYPICAL PILE CAP FOR 18"Ø PILE

2 DETAIL
SCALE: 1" = 1'-0"



3 DETAIL
SCALE: 1" = 1'-0"

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

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IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

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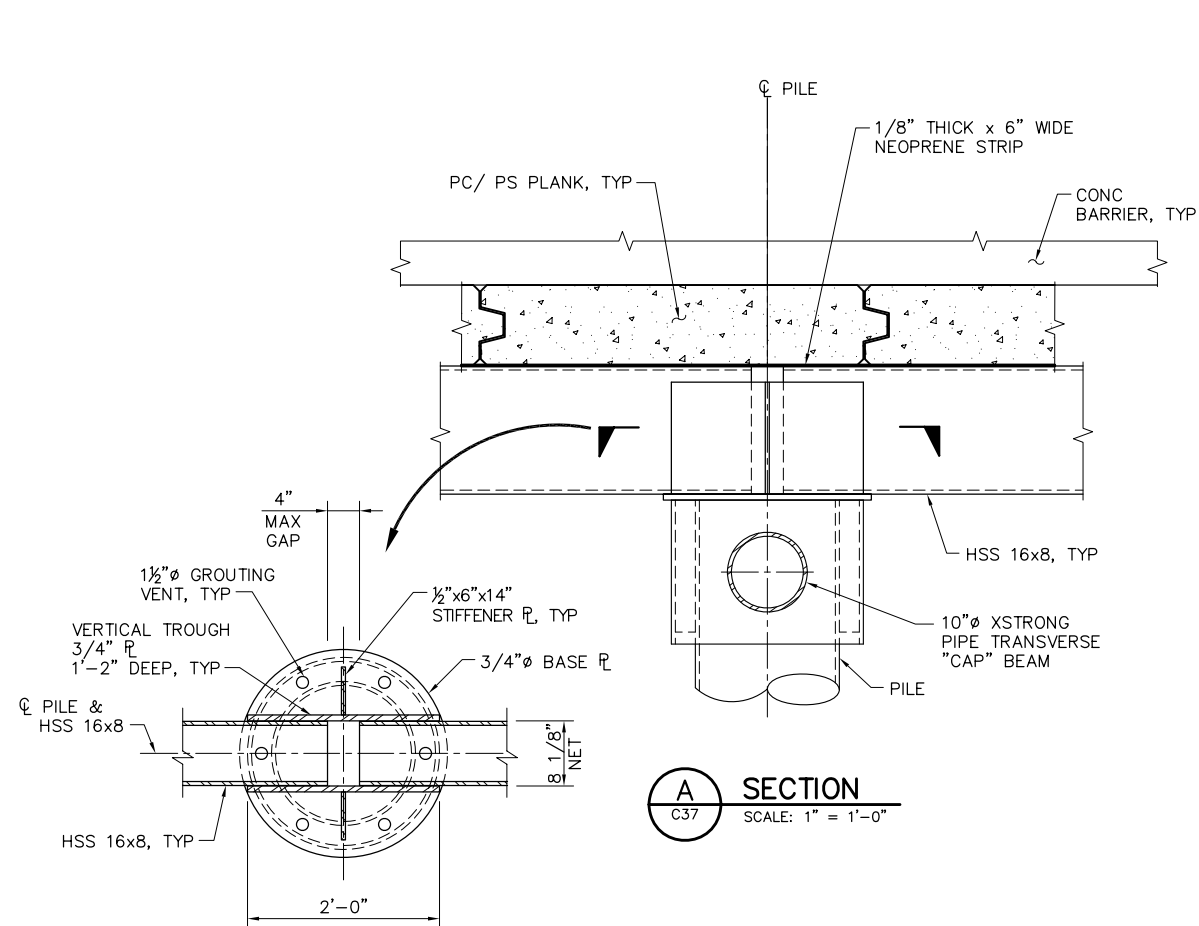
TWO GATE FISH PROTECTION PLAN

CONNECTION SLOUGH
BOAT RAMP PLAN AND SECTIONS
SHEET 2

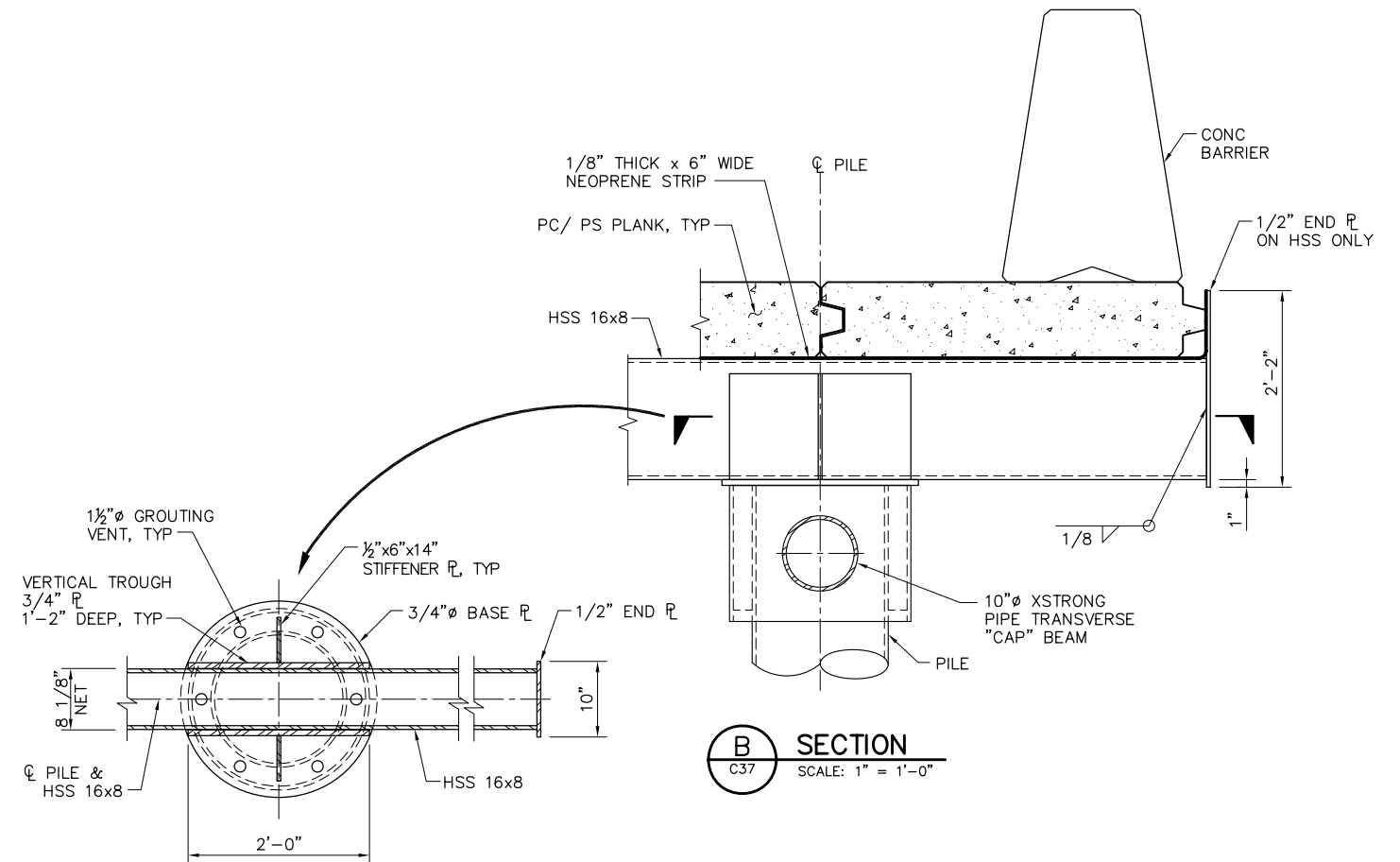
DATE 12/09/08

SHEET 31 OF 65

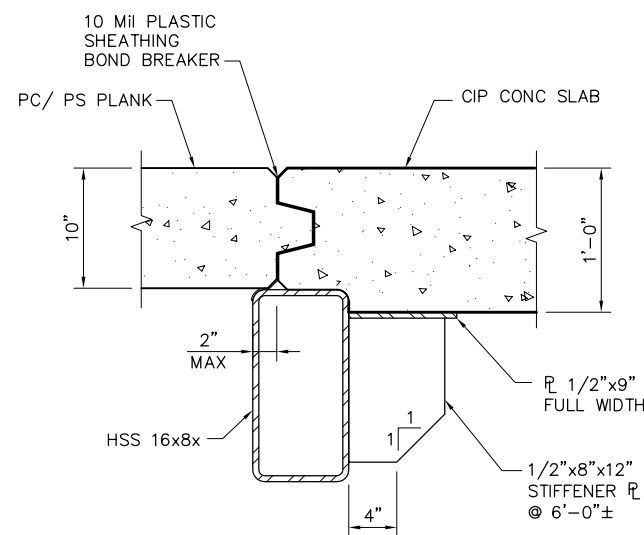
C37



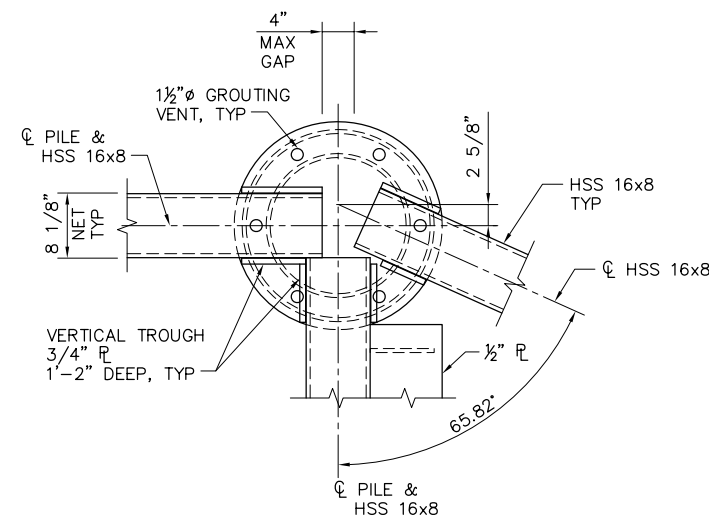
A **SECTION**
C37 SCALE: 1" = 1'-0"



B **SECTION**
C37 SCALE: 1" = 1'-0"



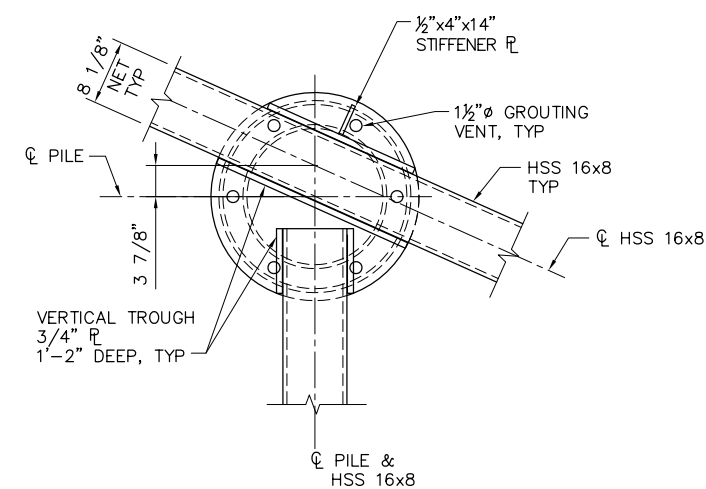
C SECTION
C39 SCALE: 1 1/2" = 1'-0"



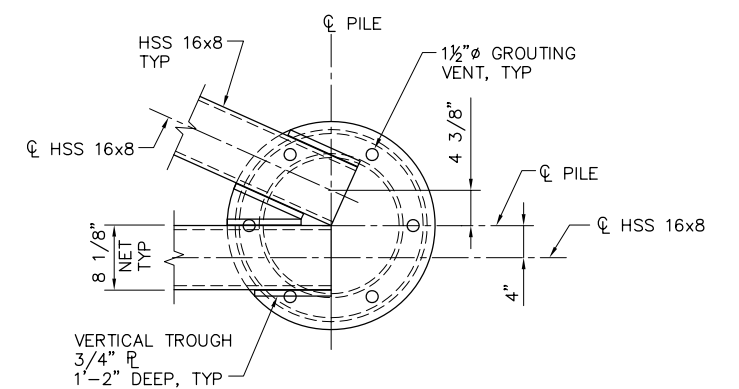
1
C39

DETAIL

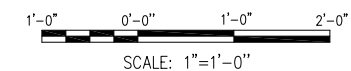
SCALE: 1" = 1'-0"



2 DETAIL
C39 SCALE: 1" = 1'-0"



3 **DETAIL**
C39 SCALE: 1" = 1'-0"



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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



2001 N. Main Street, Suite 360
Walnut Creek, California 94596
(925) 944-5411

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

TWO GATE FISH PROTECTION PLAN

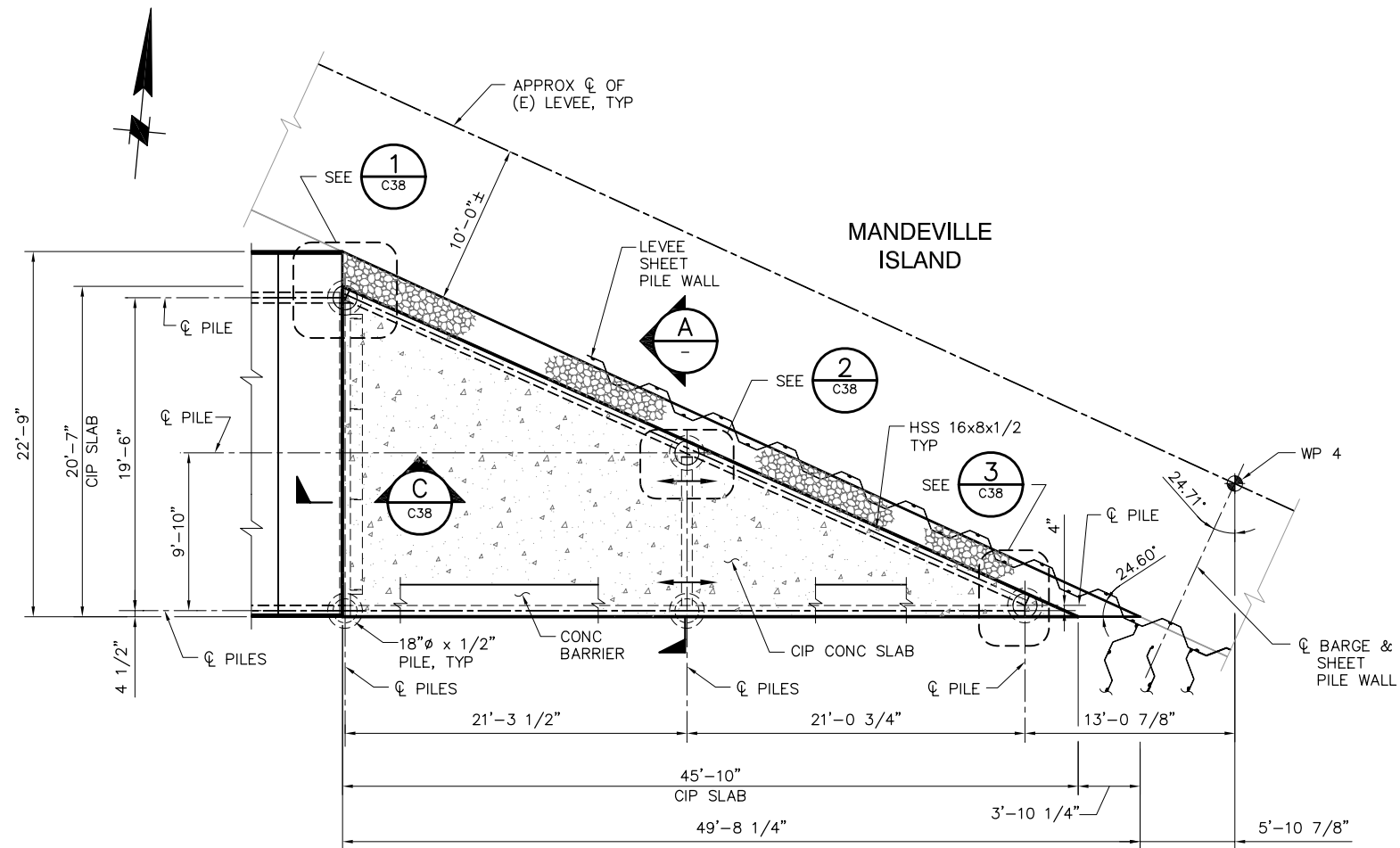
DATE 12/09/08

SHEET 32 OF 65

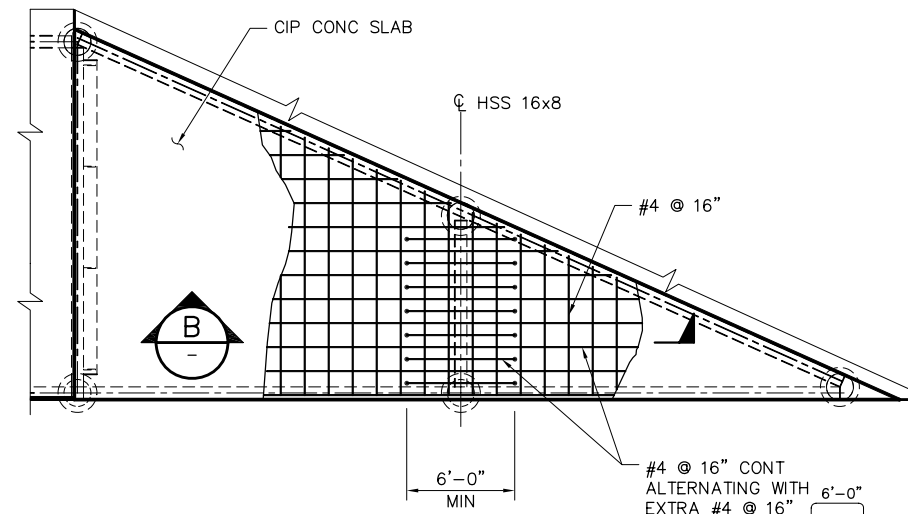
CONNECTION SLOUGH
BOAT RAMP PLAN AND SECTIONS
SHEET 3

C38

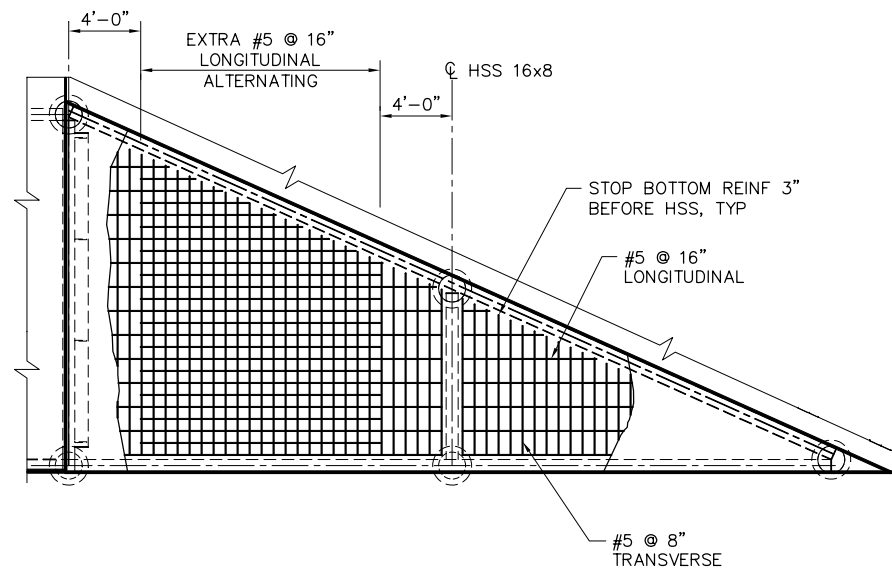
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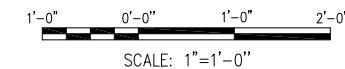
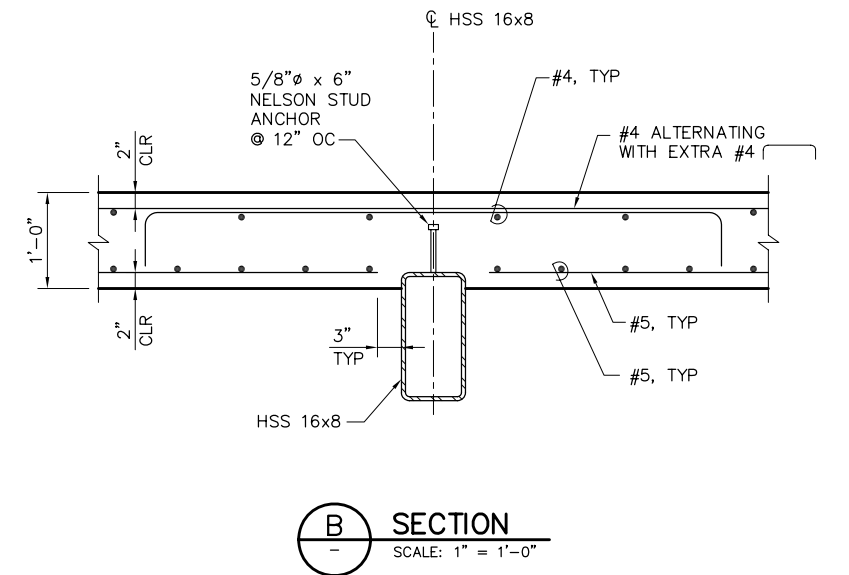
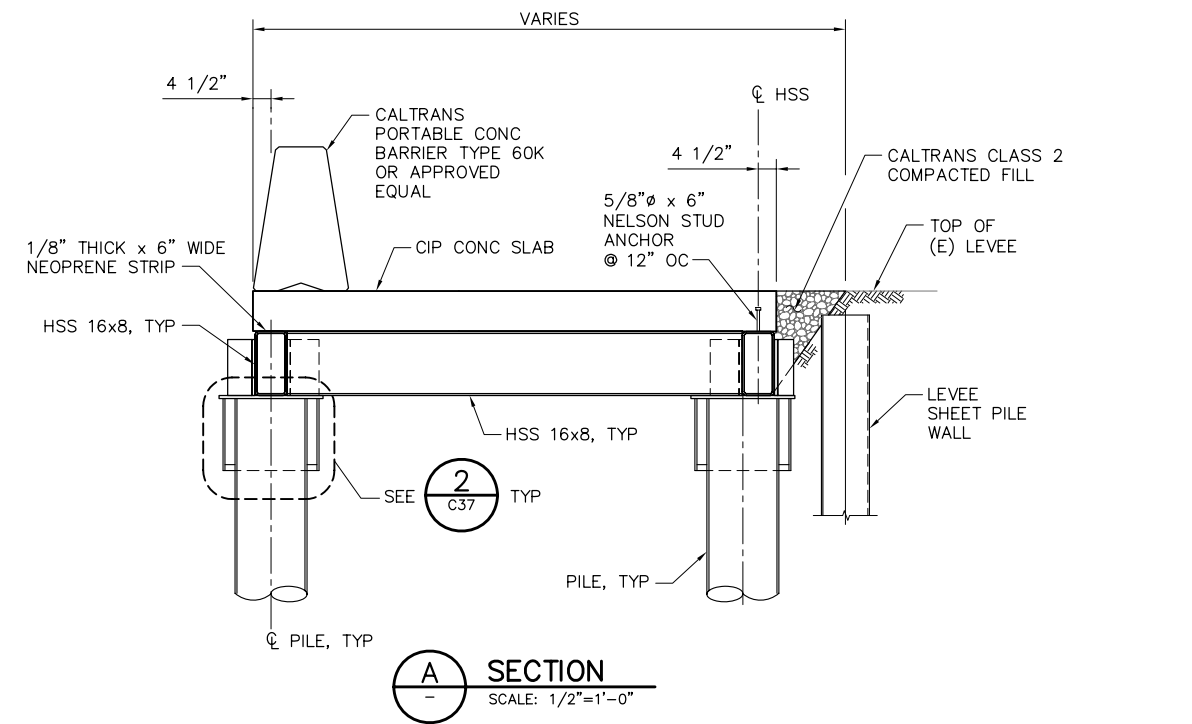
2 DETAIL
C36 SCALE: 3/16" = 1'-0"



TOP SLAB REINFORCEMENT
SCALE: 3/16" = 1'-0"



BOTTOM SLAB REINFORCEMENT
SCALE: 3/16" = 1'-0"



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

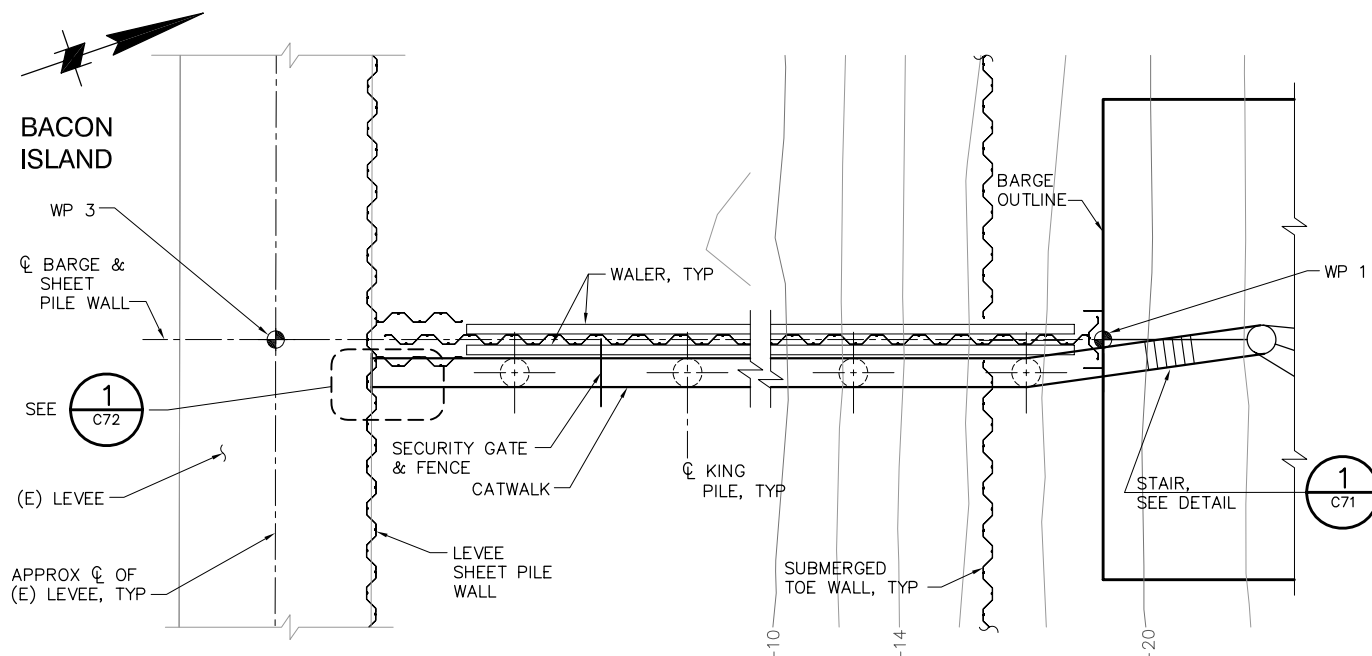
TWO GATE FISH PROTECTION PLAN

CONNECTION SLOUGH
BOAT RAMP PLAN AND SECTIONS
SHEET 4

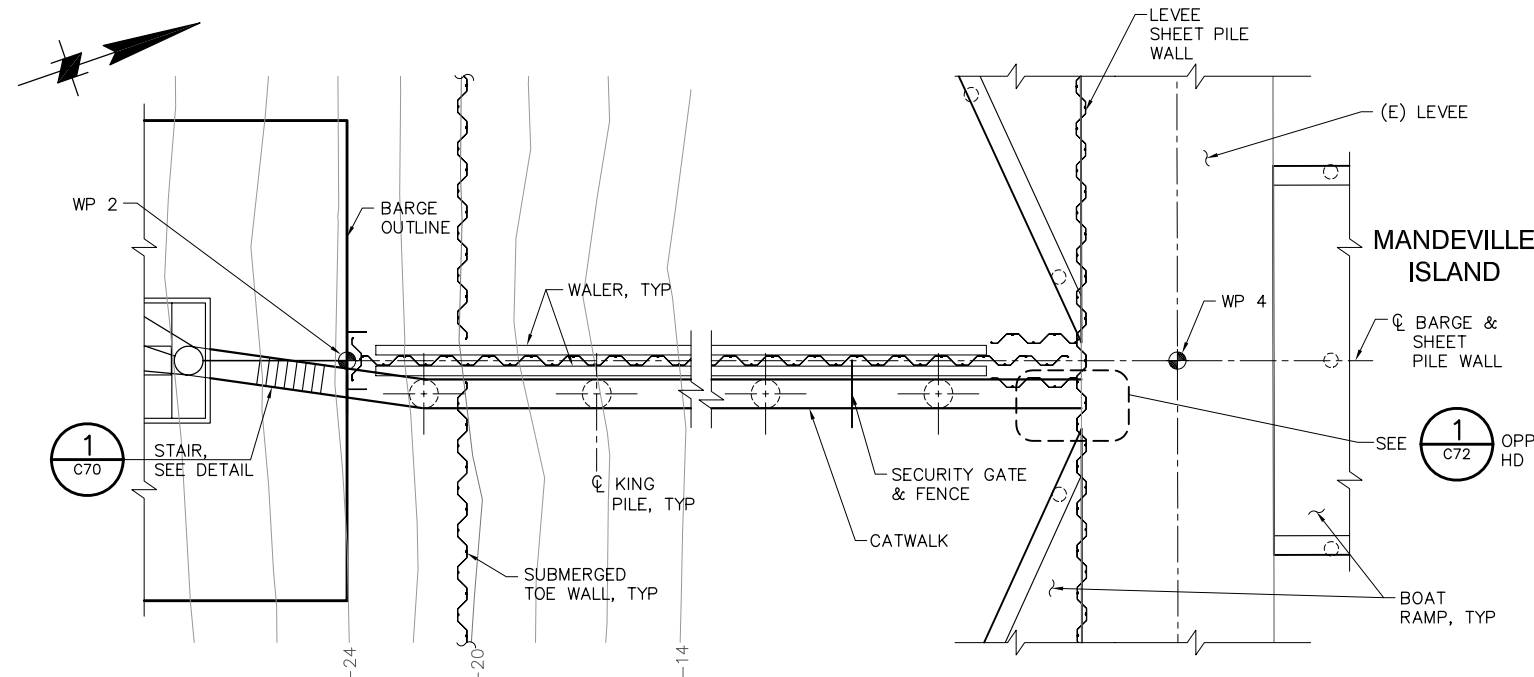
DATE 12/09/08

SHEET 33 OF 65

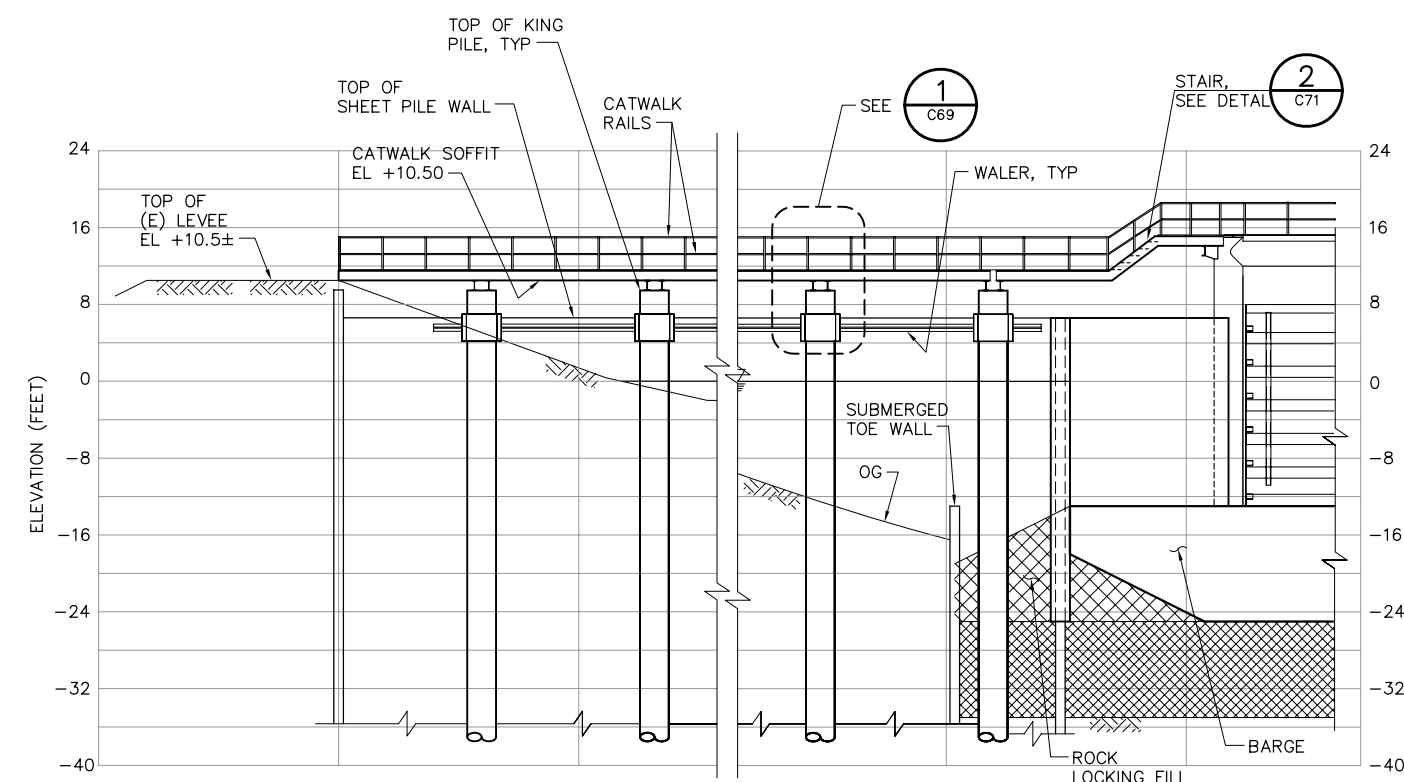
C39



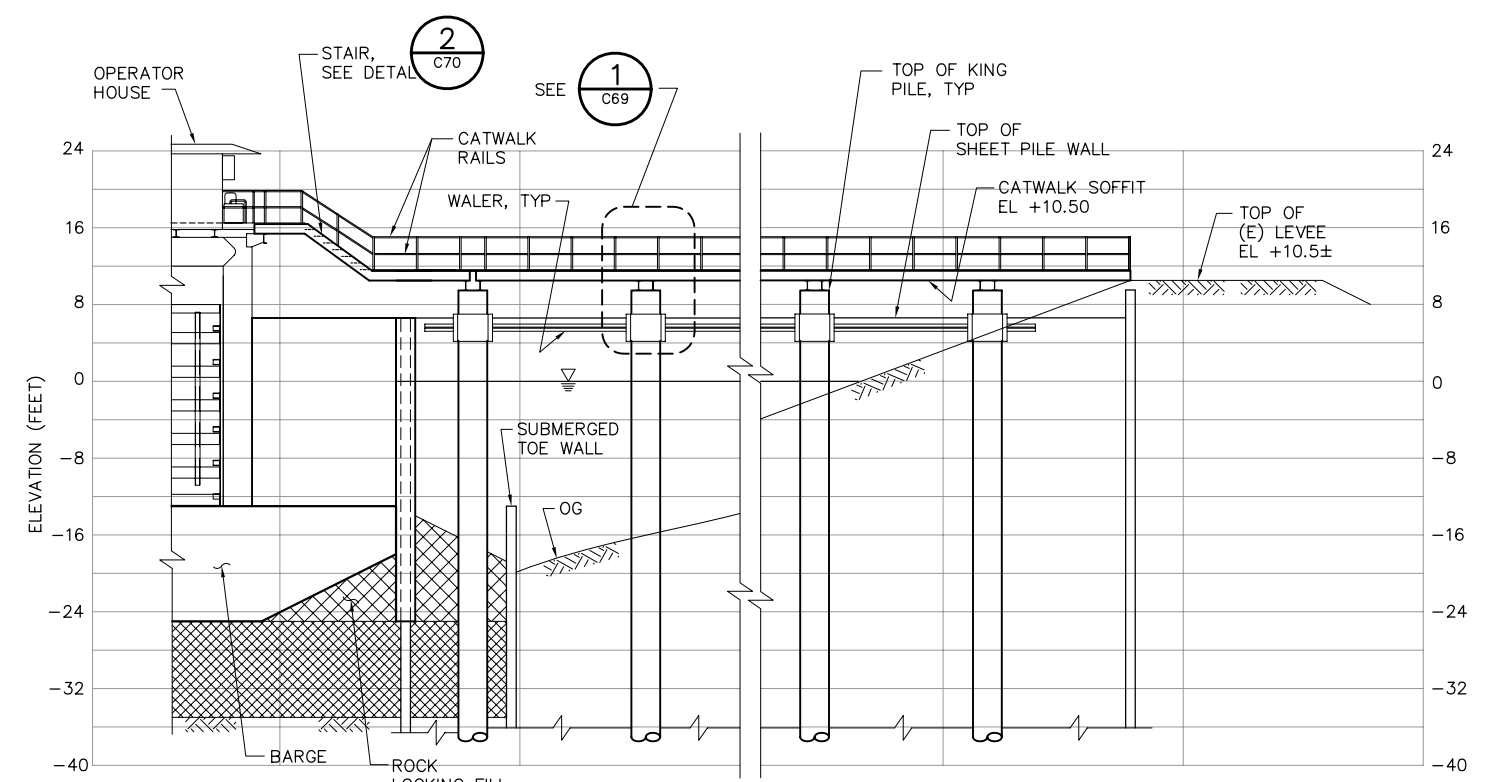
1 PLAN
SCALE: 1"=10'



2 PLAN
SCALE: 1"=20'

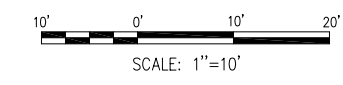


ELEVATION
SCALE: 1"= 10'



ELEVATION
SCALE: 1"= 10'

NOTE:
BOAT RAMP NOT SHOWN
FOR CLARITY.



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IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

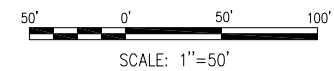
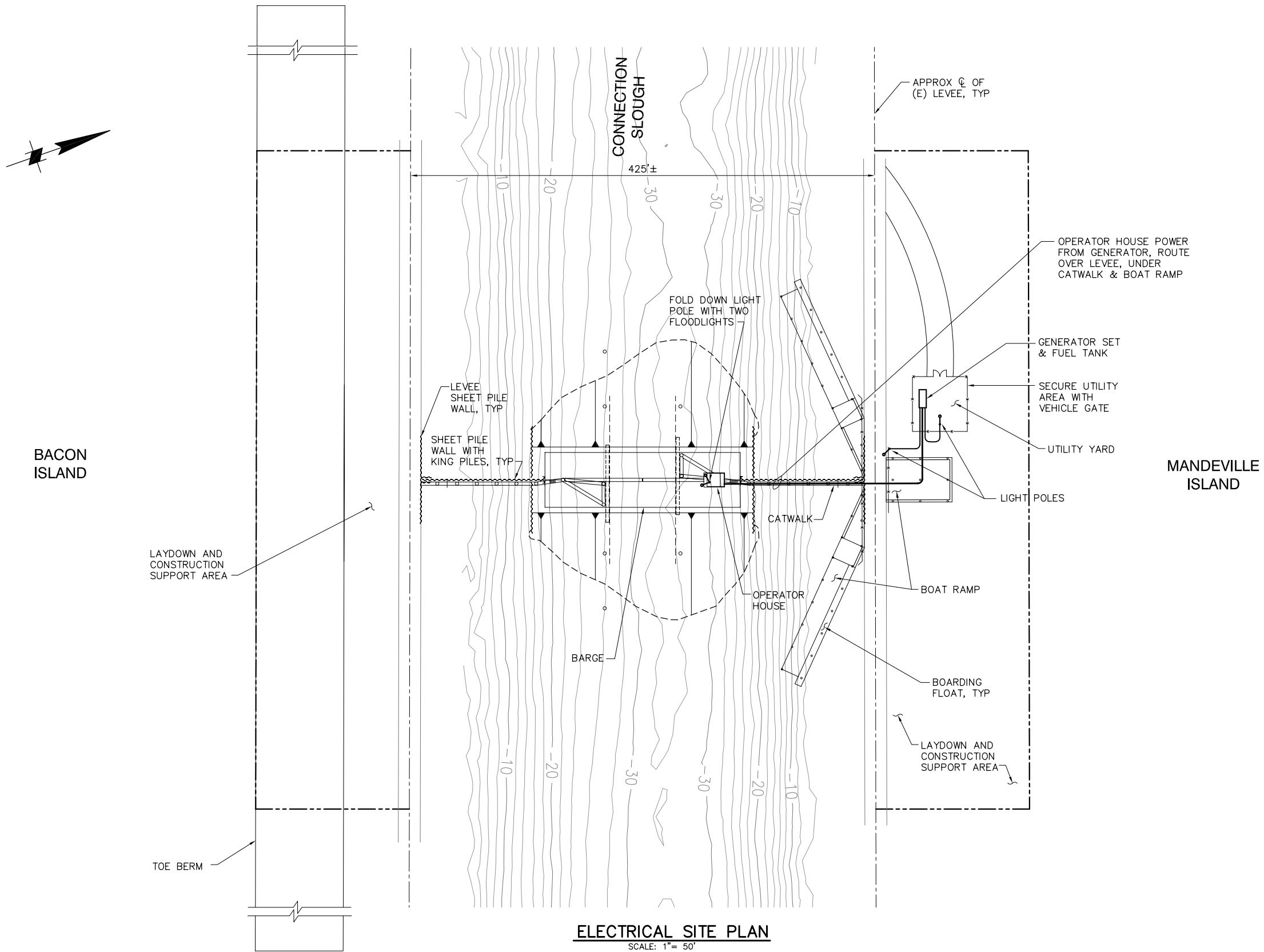
REVISION	DESCRIPTION	BY	DATE

 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411			
DSGN	JMB	DR	EP
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH CATWALK PLAN AND ELEVATION		SHEET 34 OF 65
		C40

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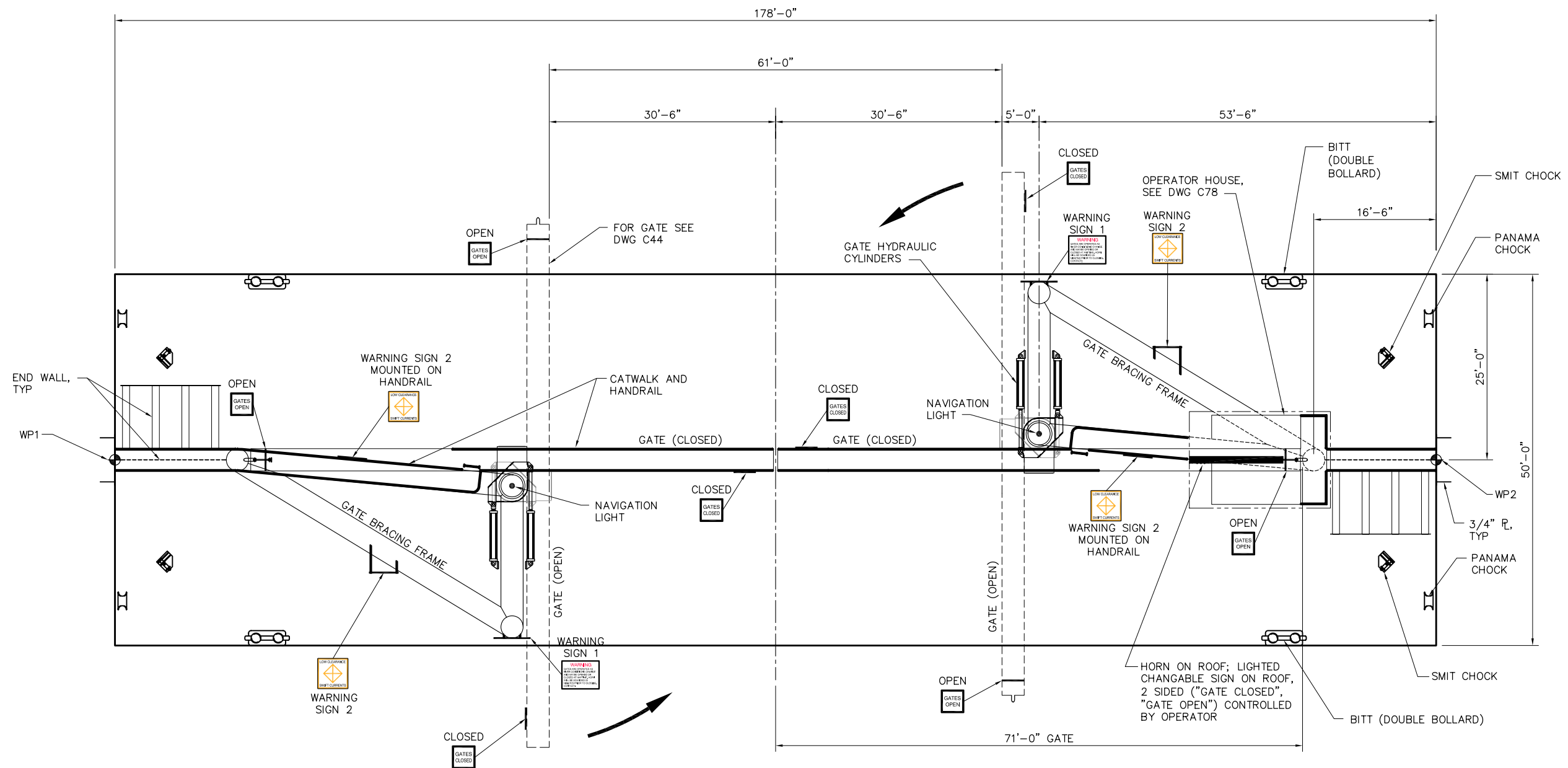
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH ELECTRICAL SITE PLAN		SHEET 35 OF 65
		C41

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C42.DWG 12/4/2008 2:53 PM



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

NOTE:

1. FOR SIGNAGE, SEE DRAWING C75.
2. FOR SIGNAGE MOUNTING SEE DRAWING C76.

8'-0" 0'-0" 8'-0" 16'-0"
SCALE: 1/8"=1'-0"

90% SUBMITTAL

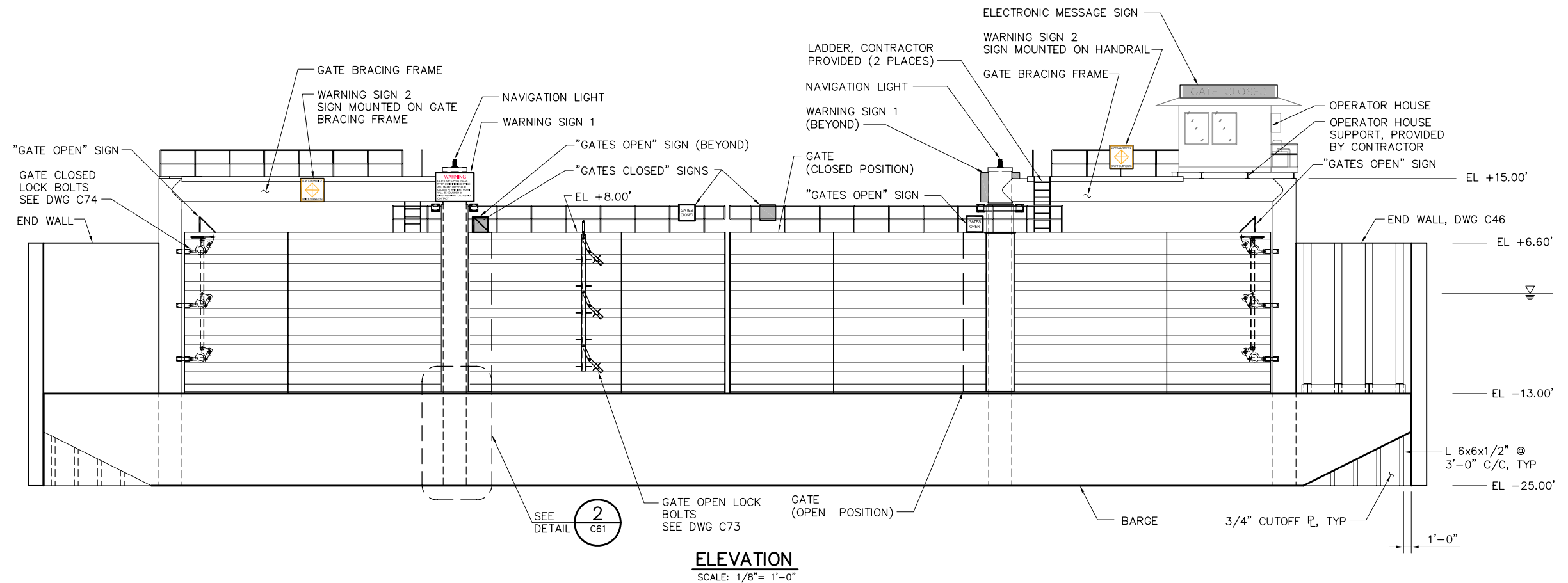
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

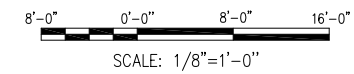
TWO GATE FISH PROTECTION PLAN CONNECTION SLOUGH BARGE GENERAL ARRANGEMENT PLAN	DATE 12/09/08
	SHEET 36 OF 65
C42	

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C43.DWG 12/8/2008 11:04 AM



NOTES:

1. FOR SIGNAGE, SEE DRAWING C75.
2. FOR SIGNAGE MOUNTING SEE DRAWING C76.

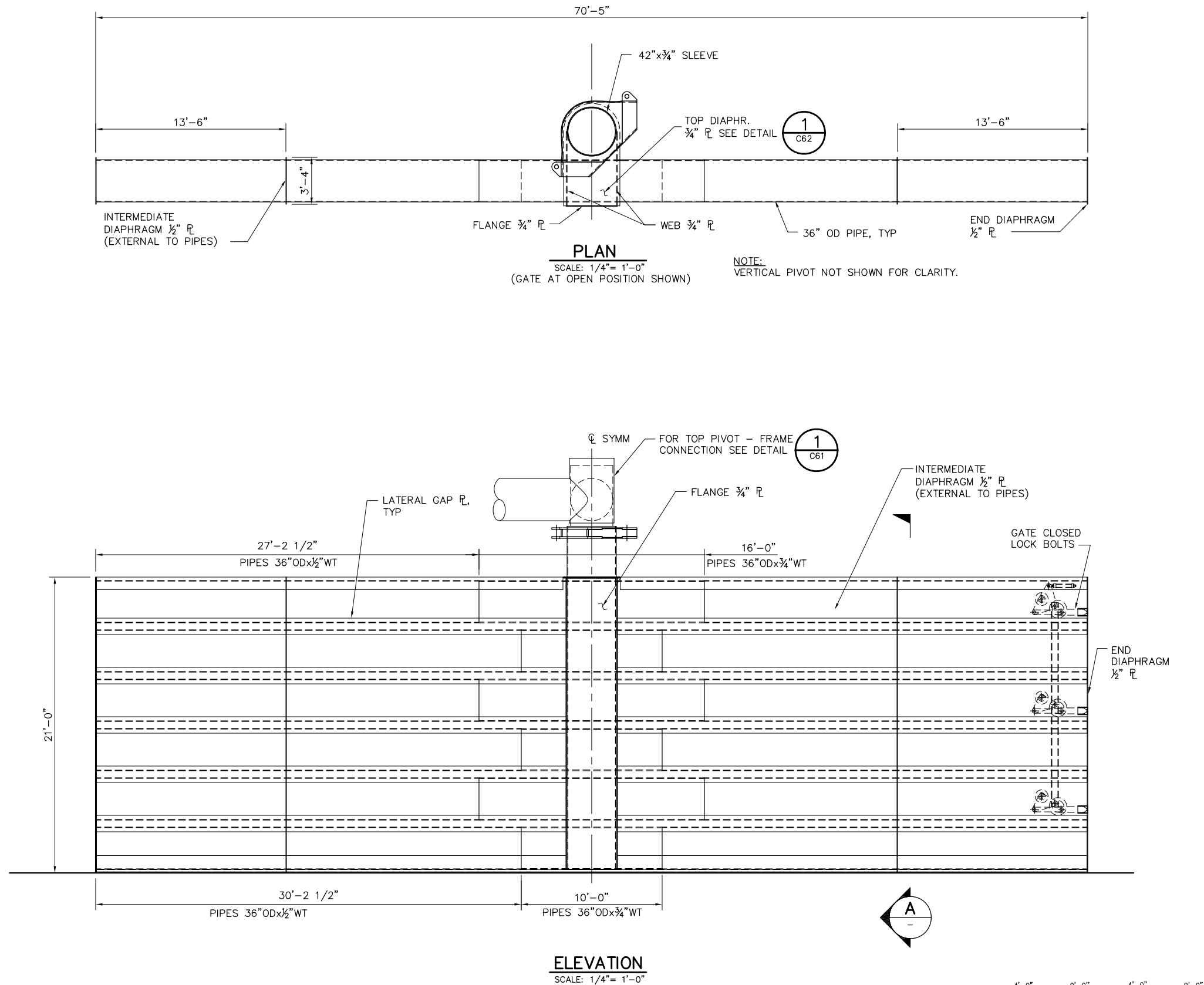


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IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

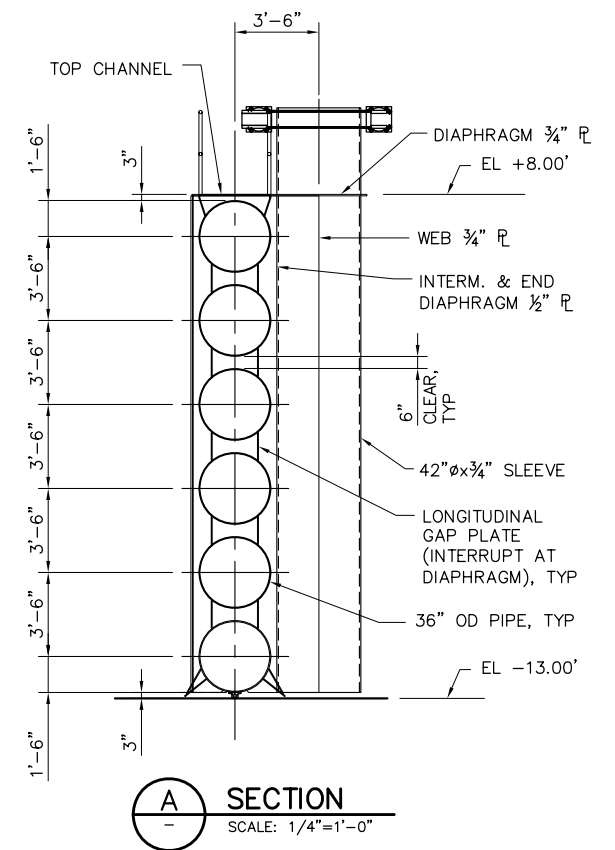
REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08	
							SHEET 37 OF 65	
					CONNECTION SLOUGH BARGE GENERAL ARRANGEMENT ELEVATION		C43	
				DSGN JMB	DR AB	CHK TDB		
				JOB NO. 6097-03	SUBMITTED BY RMR	TITLE		

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C44.DWG 12/8/2008 11:05 AM



NOTE:

BOTTOM GATE PIPE (36"Ø) SHALL NOT BE BUOYANT. ONLY UPPER FIVE GATE PIPES SHALL BE BUOYANT.



90% SUBMITTAL

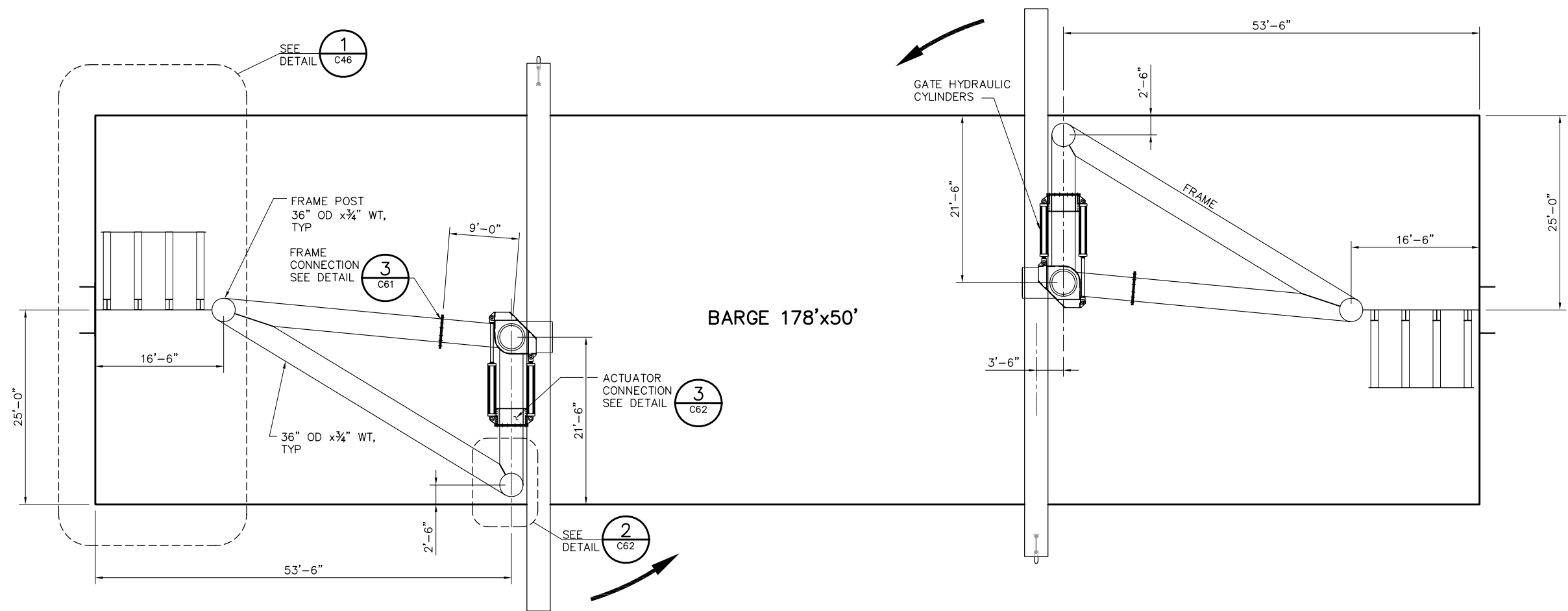
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH GATE SCANTLINGS		SHEET 38 OF 65
		C44

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C45.DWG 12/3/2008 11:16 AM



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

8'-0" 0'-0" 8'-0" 16'-0"
SCALE: 1/8"=1'-0"

90% SUBMITTAL

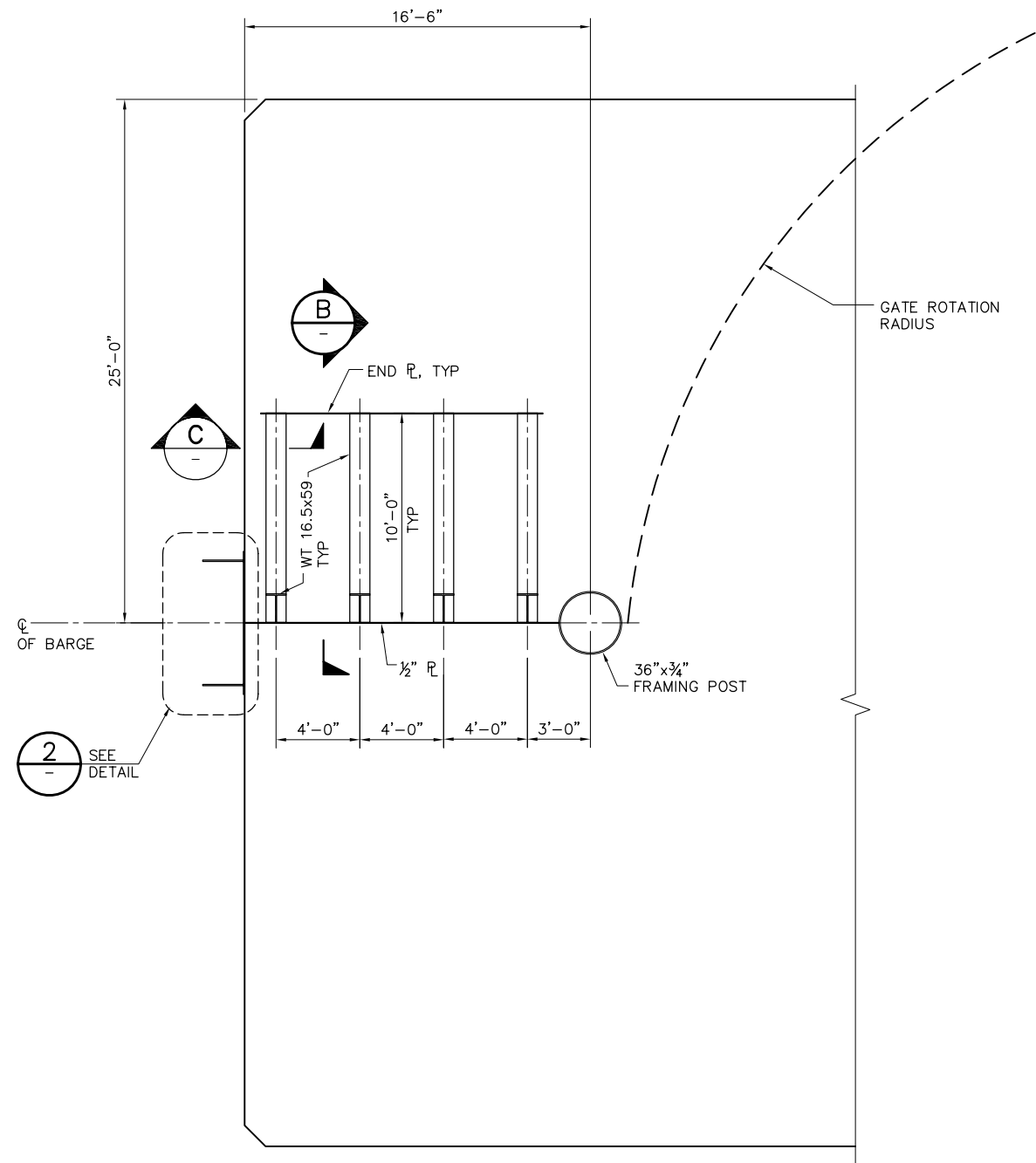
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

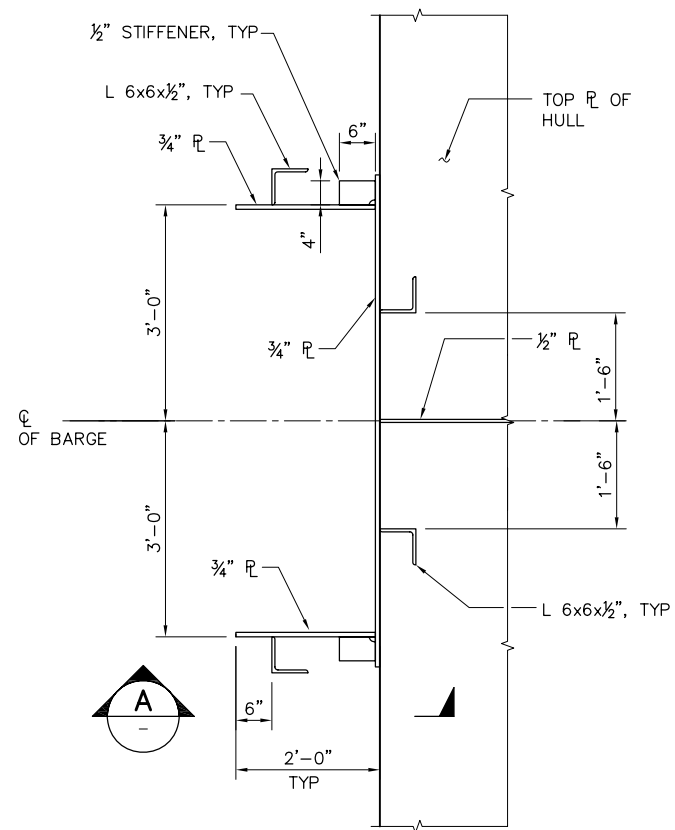
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
DSGN	CBS	DR	AB
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 39 OF 65
CONNECTION SLOUGH GATE FRAMING LAYOUT	C45

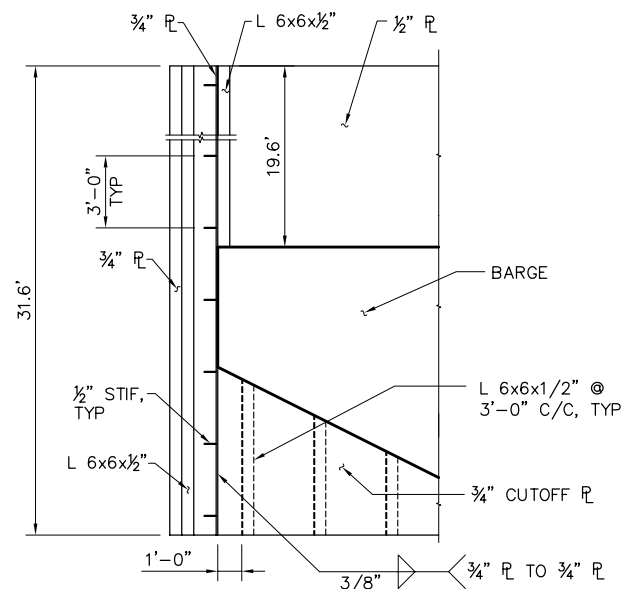
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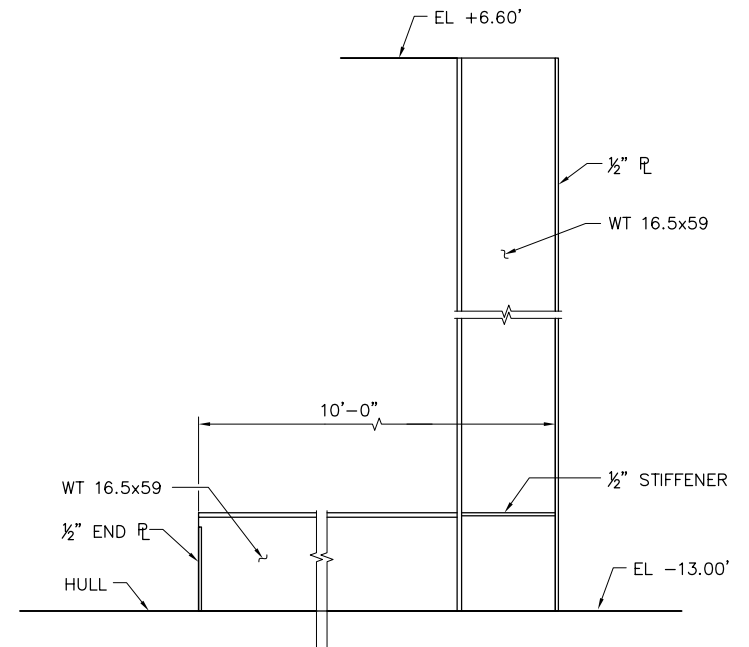
PLAN
1
C45
DETAIL
SCALE: 1/4" = 1'-0"



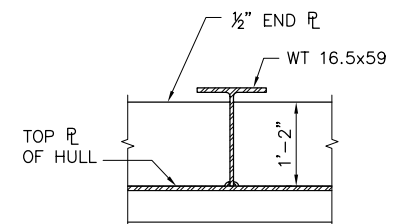
2
DETAIL
SCALE: 3/4" = 1'-0"



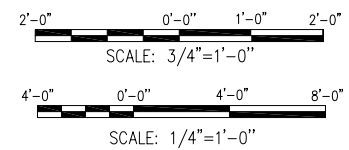
A
SECTION
SCALE: 1/4" = 1'-0"



B
SECTION
SCALE: 3/4" = 1'-0"



C
SECTION
SCALE: 3/4" = 1'-0"



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IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

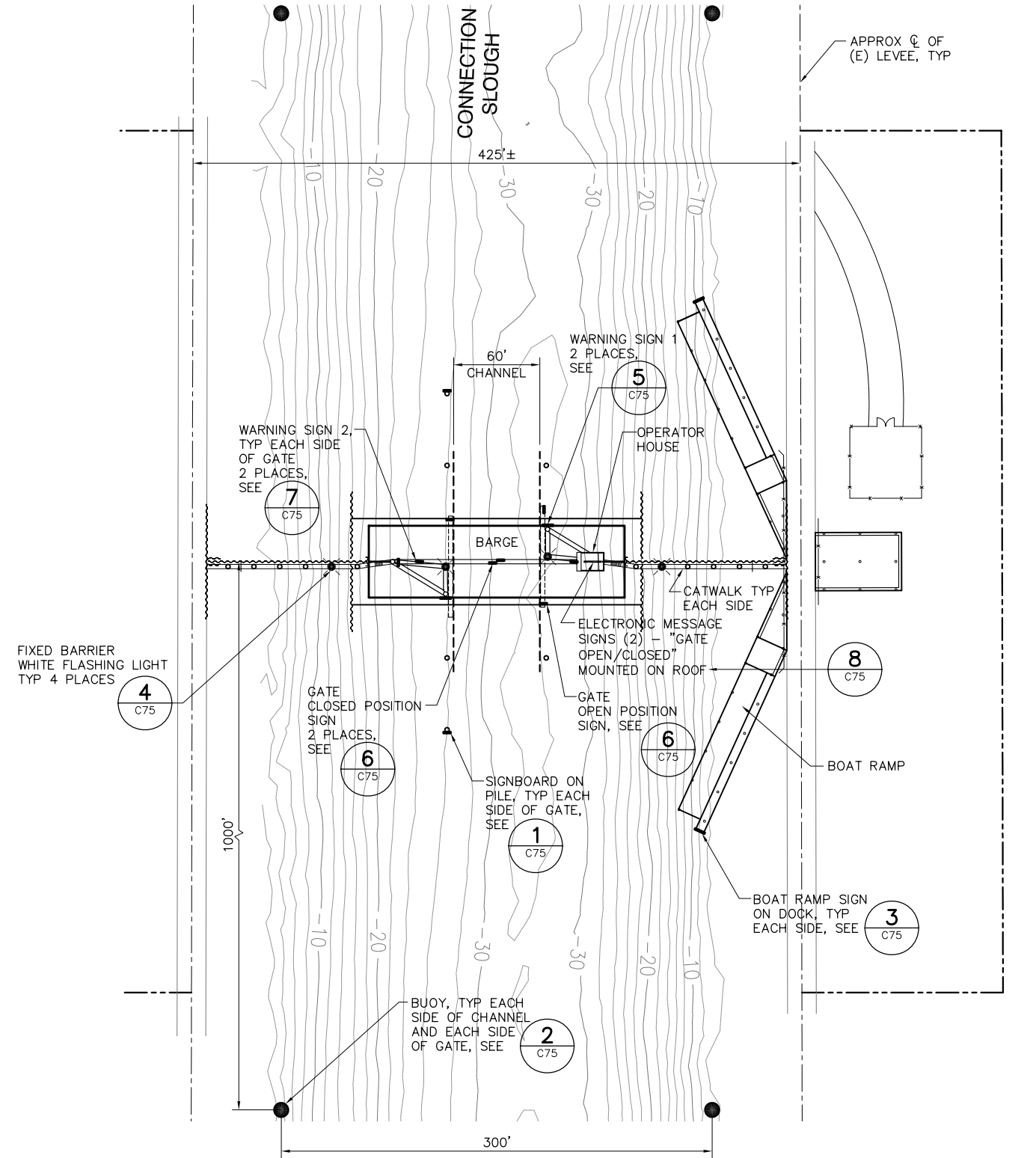
 Moffatt & Nichol			2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411		
DSGN	JMB	DR	AB	CHK	TDB
JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
CONNECTION SLOUGH END WALL SCANTLINGS		SHEET 40 OF 65
C46		

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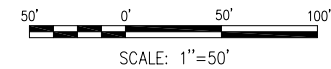


BACON
ISLAND



MANDEVILLE
ISLAND

SITE PLAN
SCALE: 1"= 50'



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IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

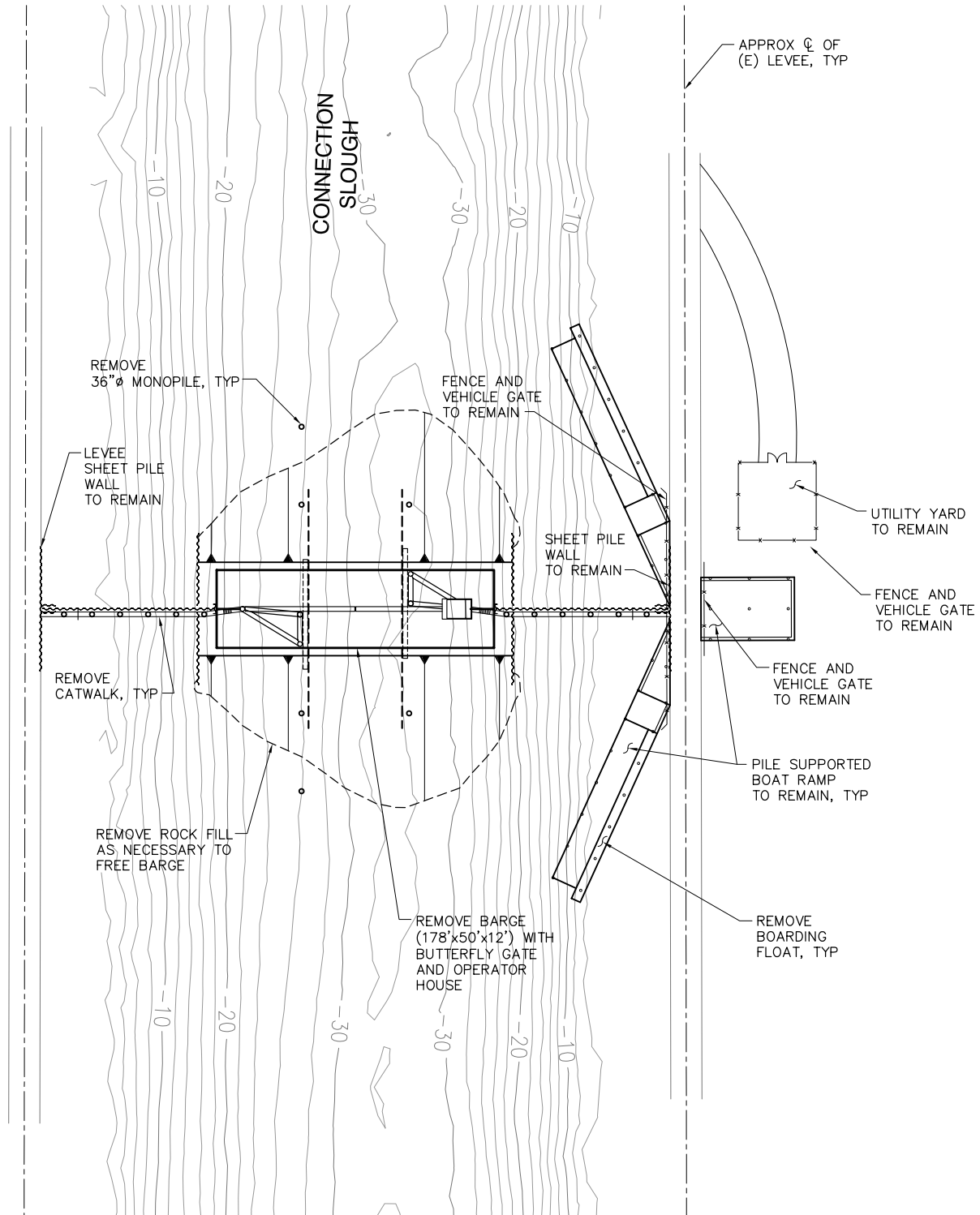
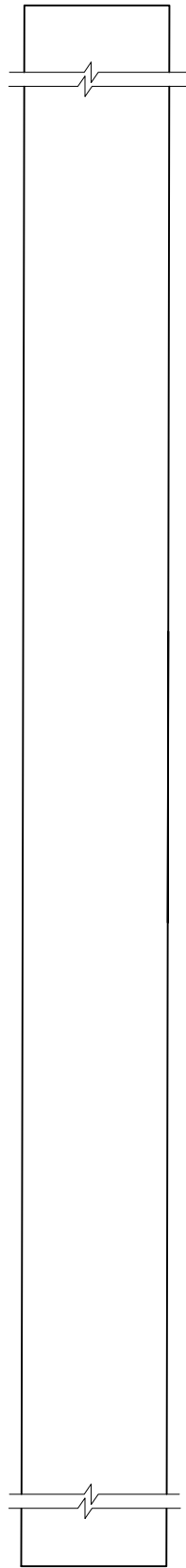
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
		DSGN RBD	DR TAE
JOB NO. 6097-03		SUBMITTED BY RMR	
		CHK TDB	TITLE

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 41 OF 65
CONNECTION SLOUGH AIDS TO NAVIGATION PLAN	C47

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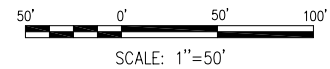


BACON
ISLAND



MANDEVILLE
ISLAND

TEMPORARY REMOVAL PLAN
SCALE: 1"= 50'



90% SUBMITTAL

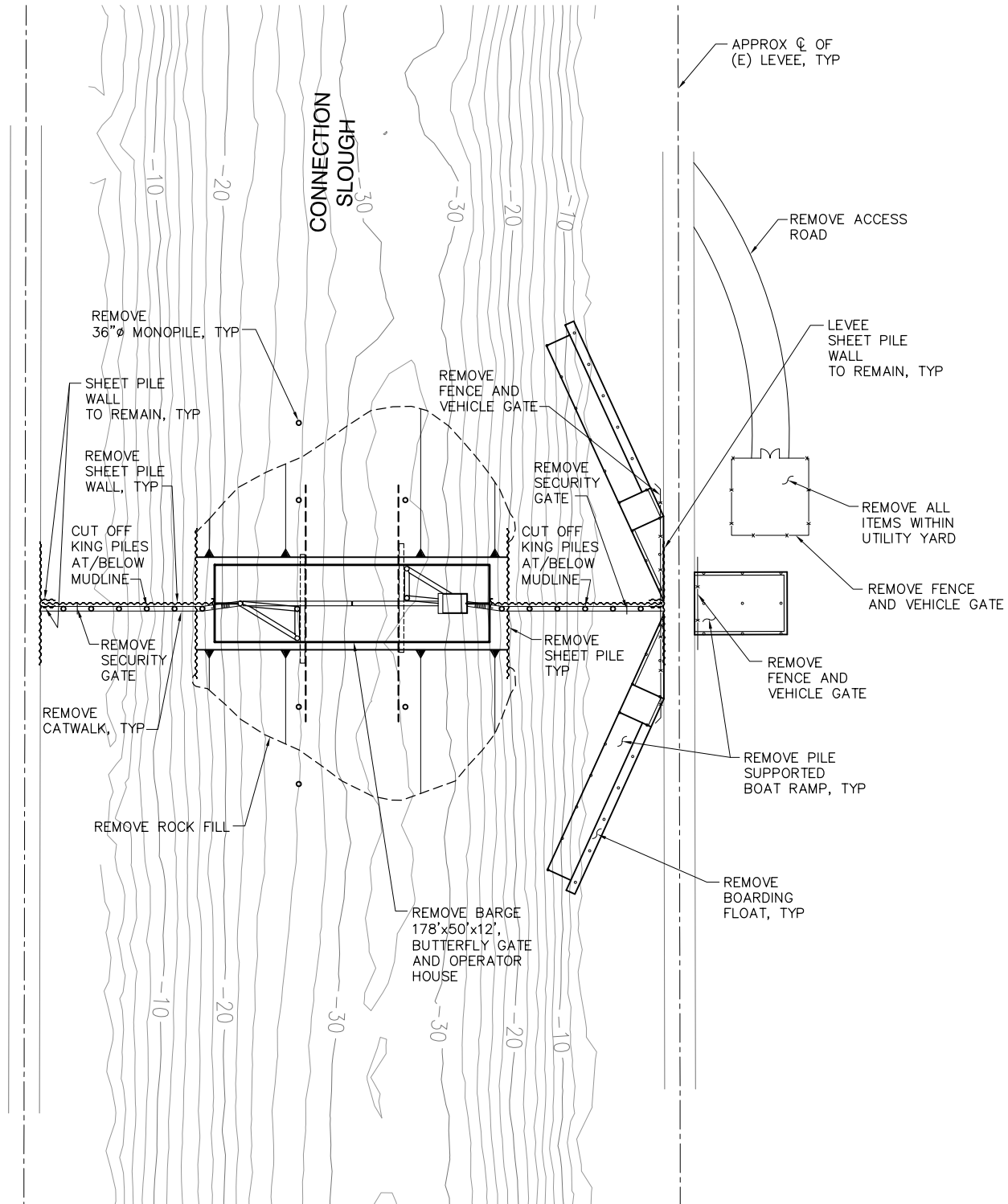
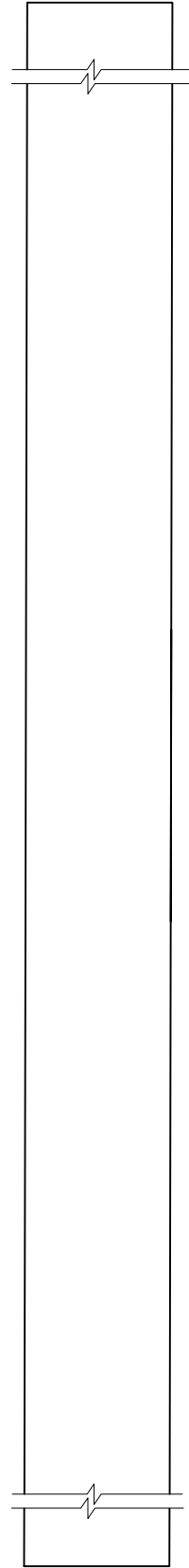
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
							SHEET 42 OF 65
					CONNECTION SLOUGH TEMPORARY REMOVAL PLAN		C48
				DSGN TDB	DR EP	CHK GTH	
				JOB NO. 6097-03	SUBMITTED BY RMR	TITLE	

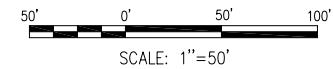
P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C49.DWG 12/8/2008 3:27 PM



BACON
ISLAND



PERMANENT REMOVAL PLAN
SCALE: 1"= 50'



90% SUBMITTAL

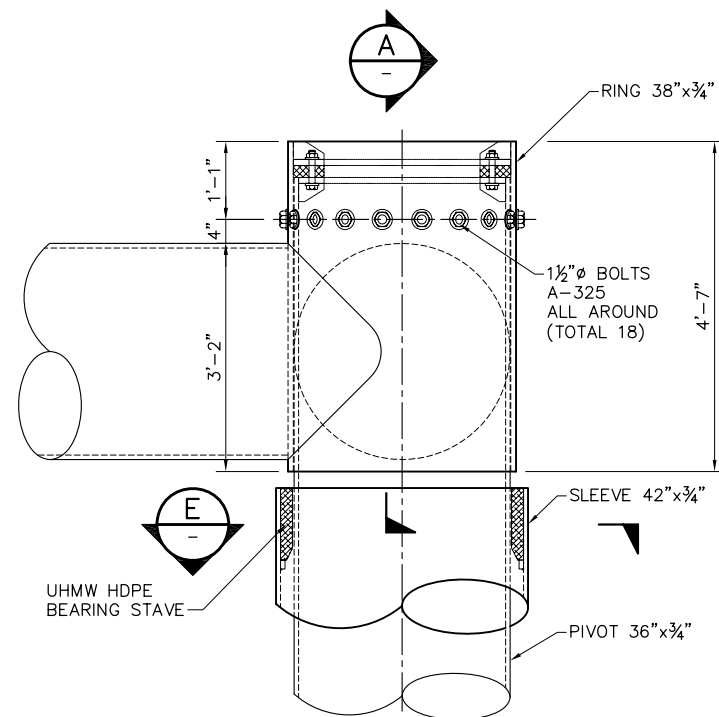
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

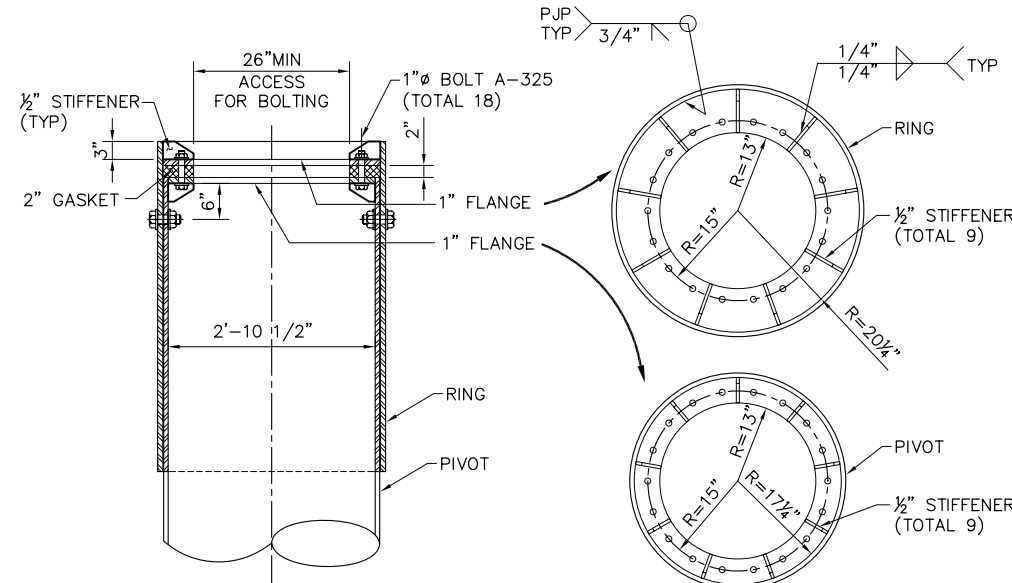
 Moffatt & Nichol	2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
	DSGN	DR
TDB	EP	CHK
JOB NO.	SUBMITTED BY	TITLE
6097-03	RMR	

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 43 OF 65
CONNECTION SLOUGH PERMANENT REMOVAL PLAN	C49

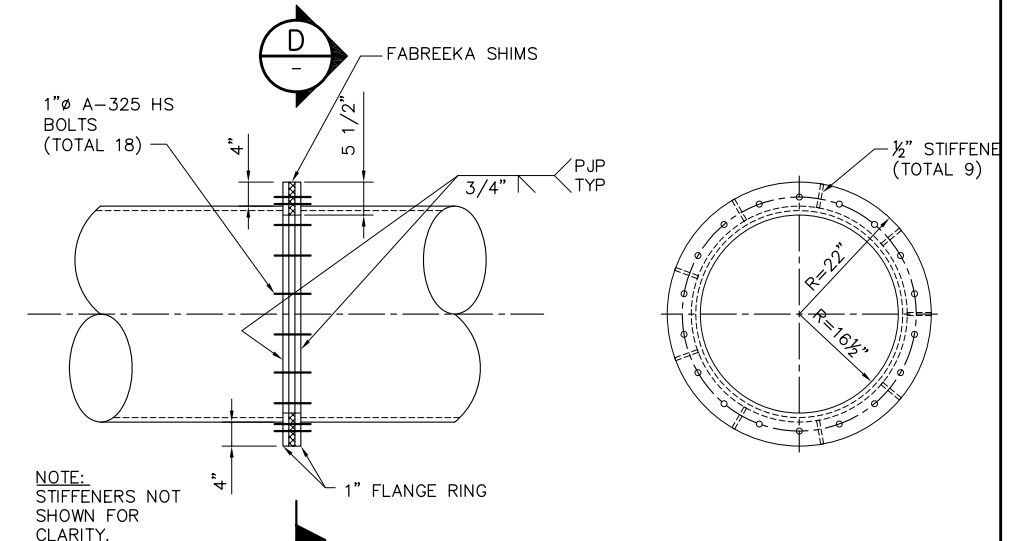
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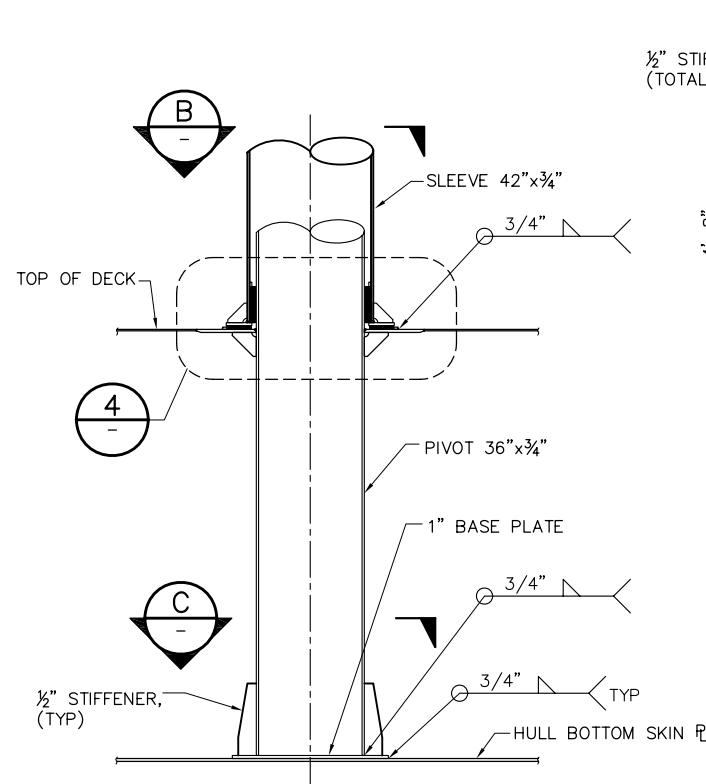
1 TOP PIVOT - FRAME CONNECTION
C16 SCALE: 3/4" = 1'-0"
C44



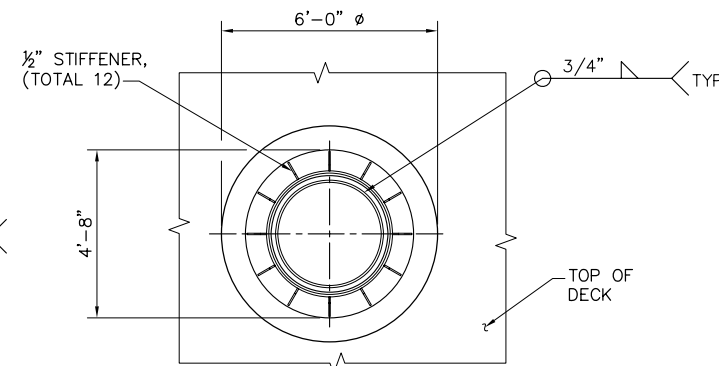
3 FRAME CONNECTION
C17 SCALE: 3/4" = 1'-0"
C45, C62



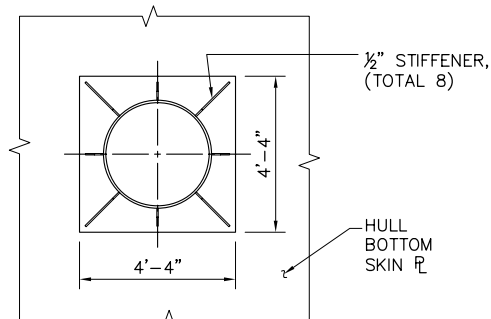
4 UHMW HDPE THRUST BEARING
C18 SCALE: 3/4" = 1'-0"



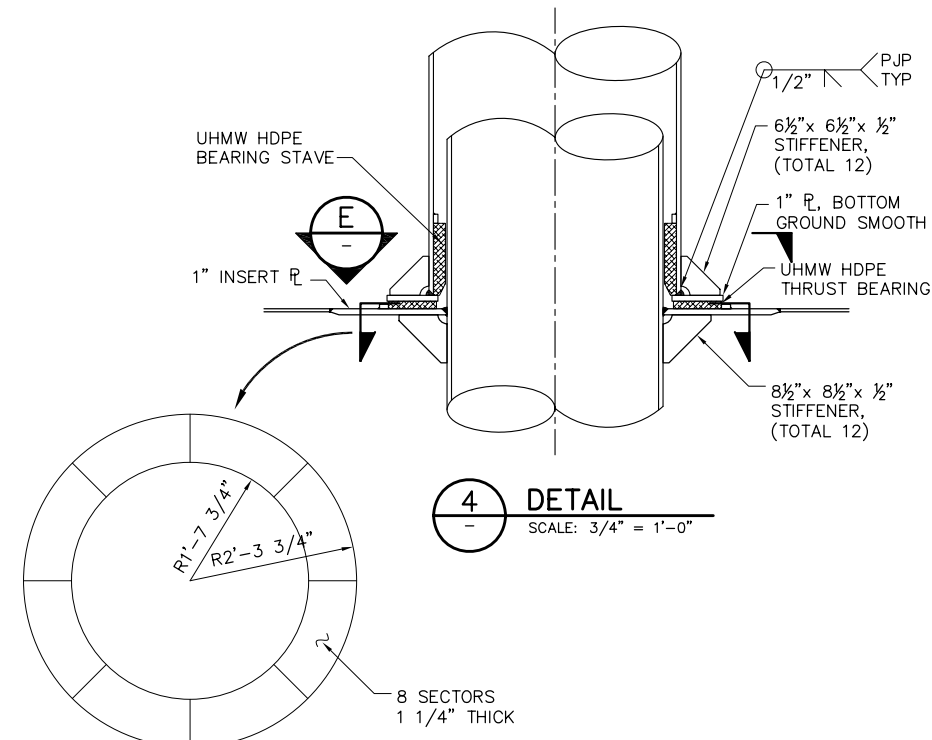
2 FRAMING PIVOT CONNECTION
C15 SCALE: 3/8" = 1'-0"
C43



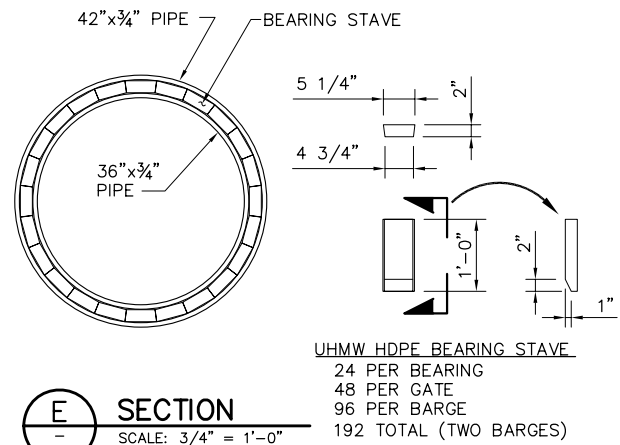
B SECTION
SCALE: 3/8" = 1'-0"



C SECTION
SCALE: 3/8" = 1'-0"
C62



4 UHMW HDPE THRUST BEARING
SCALE: 3/4" = 1'-0"



E SECTION
SCALE: 3/4" = 1'-0"

NOTES:

- ALL STIFFENER WELDS SHALL BE SYMMETRICAL 1/4" MIN. FILLET WELDS U.N.O.

90% SUBMITTAL

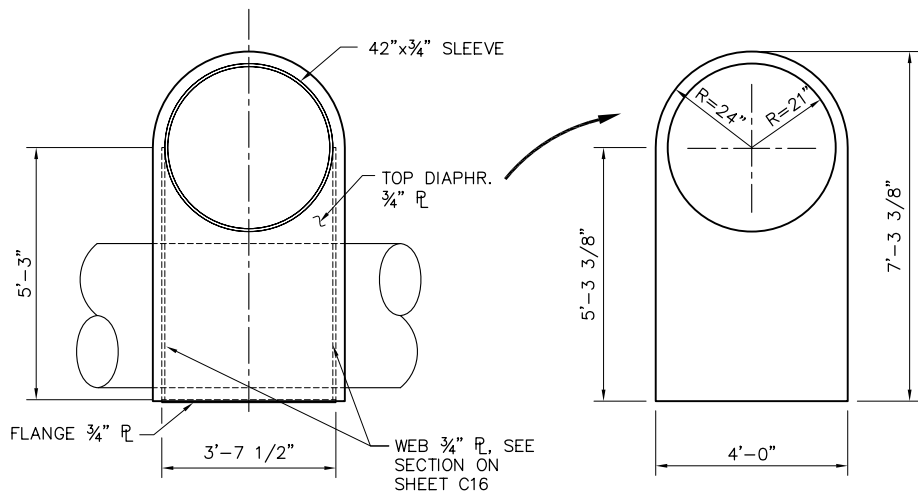
IF SHEET IS LESS THAN 22" x 34" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY.

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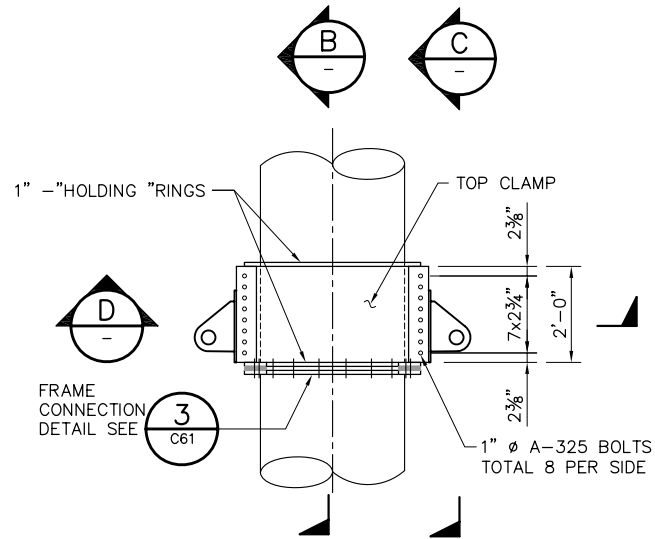
TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
GATE STRUCTURAL DETAILS		SHEET 44 OF 65
SHEET 1		C61

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C62.DWG 12/8/2008 11:11 AM



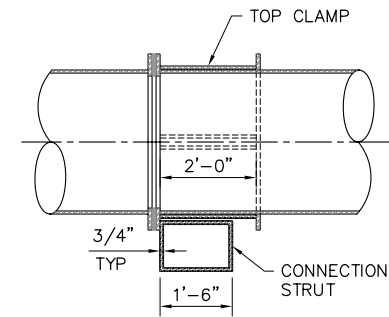
1 SLEEVE CONNECTION DETAIL
C16 SCALE: 1/2" = 1'-0"

C44

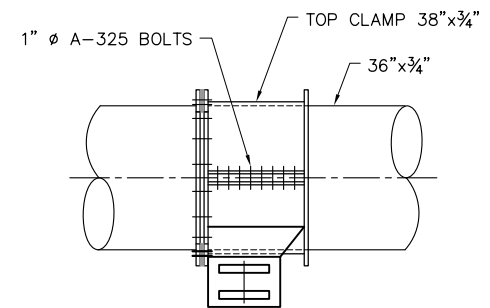


3 ACTUATOR CONNECTION DETAIL
C17 SCALE: 1/2" = 1'-0"

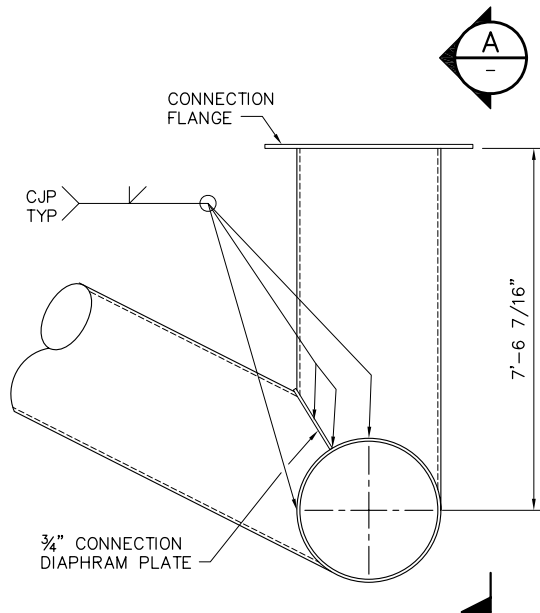
C45



B SECTION
SCALE: 1/2" = 1'-0"

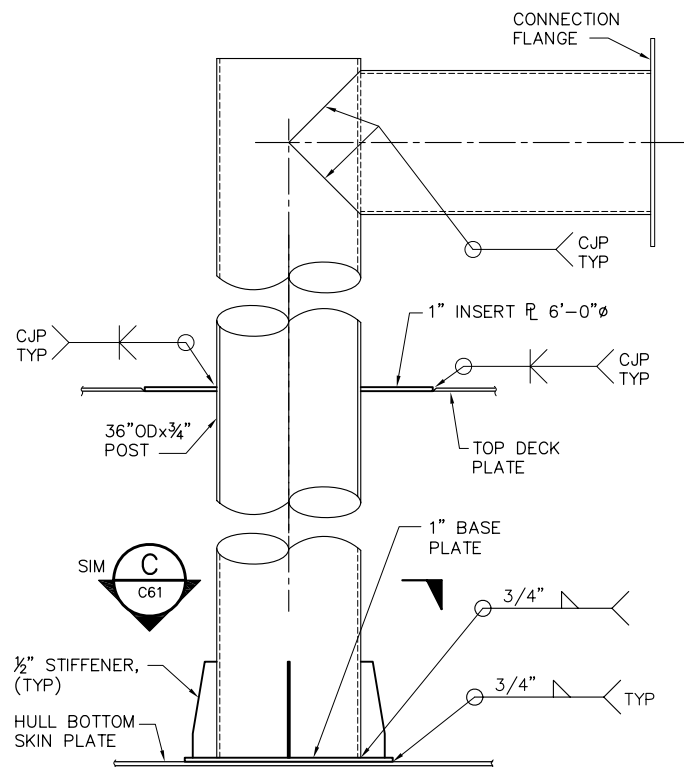


C SECTION
SCALE: 1/2" = 1'-0"

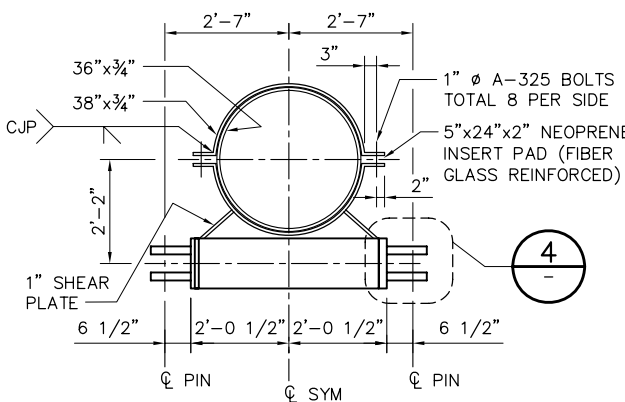


2 "SIDE POST" CONNECTION
C17 SCALE: 1/2" = 1'-0"

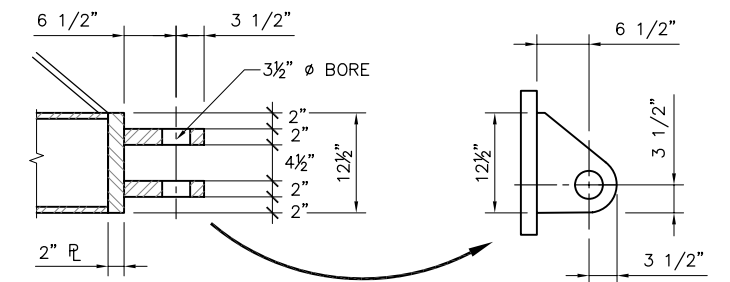
C45



A ELEVATION
SCALE: 1/2" = 1'-0"



D SECTION
SCALE: 1/2" = 1'-0"



4 DETAIL
SCALE: 1" = 1'-0"

2'-0" 0'-0" 2'-0" 4'-0"
SCALE: 1/2" = 1'-0"

90% SUBMITTAL

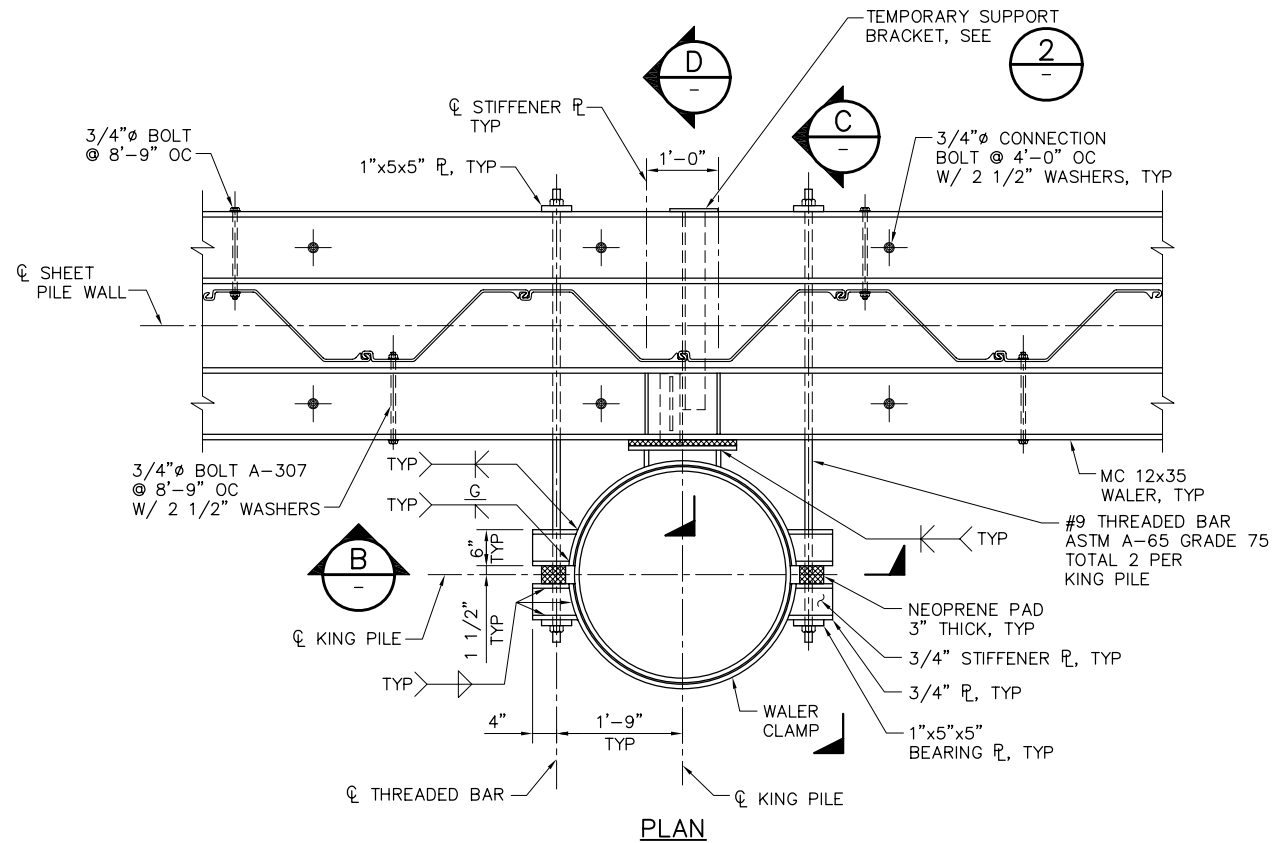
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

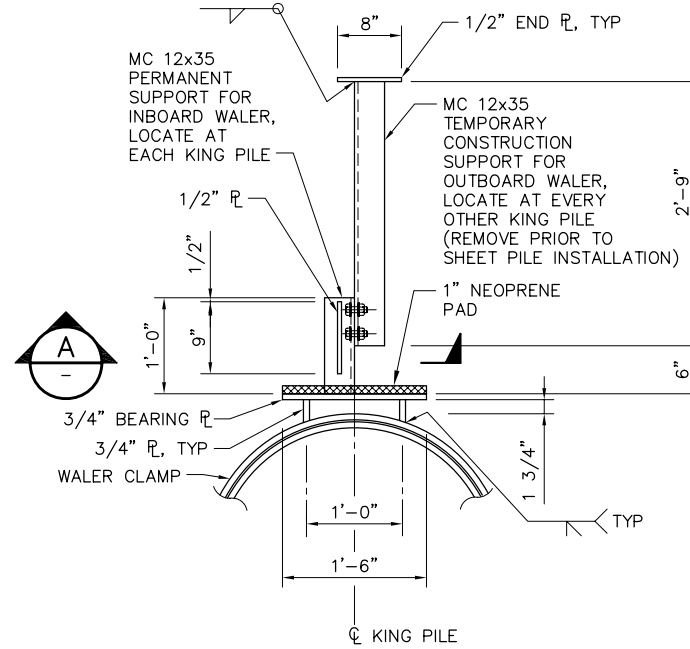
 Moffatt & Nichol			2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411		
DSGN	JMB	DR	AB	CHK	CBS
JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
GATE STRUCTURAL DETAILS, SHEET 2		SHEET 45 OF 65
		C62

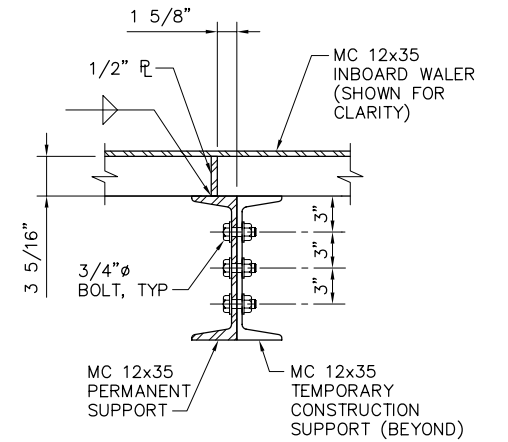
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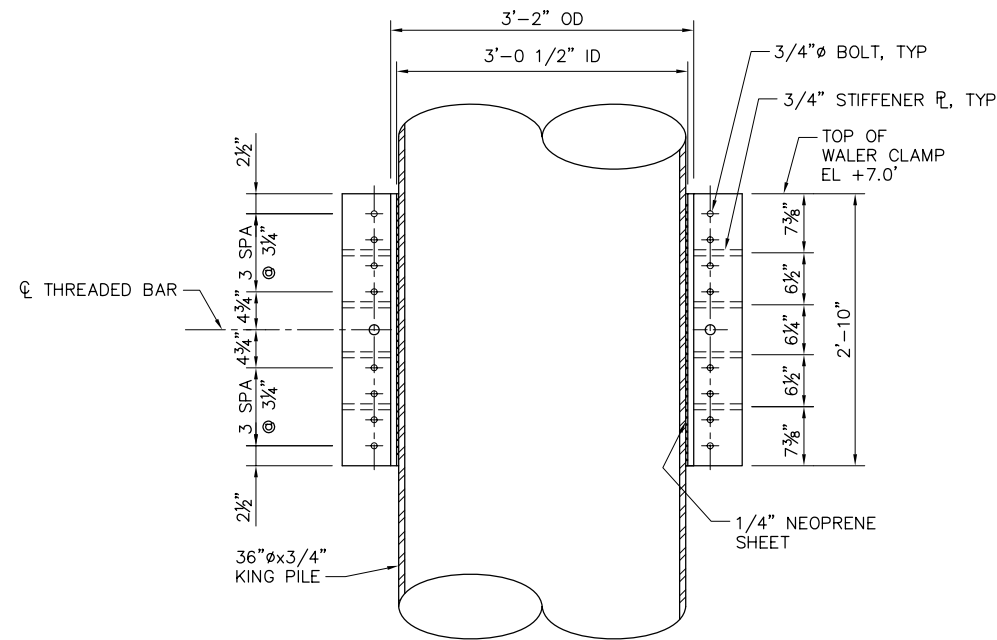
1 DETAIL
SCALE: 3/4" = 1'-0"
C36, C8



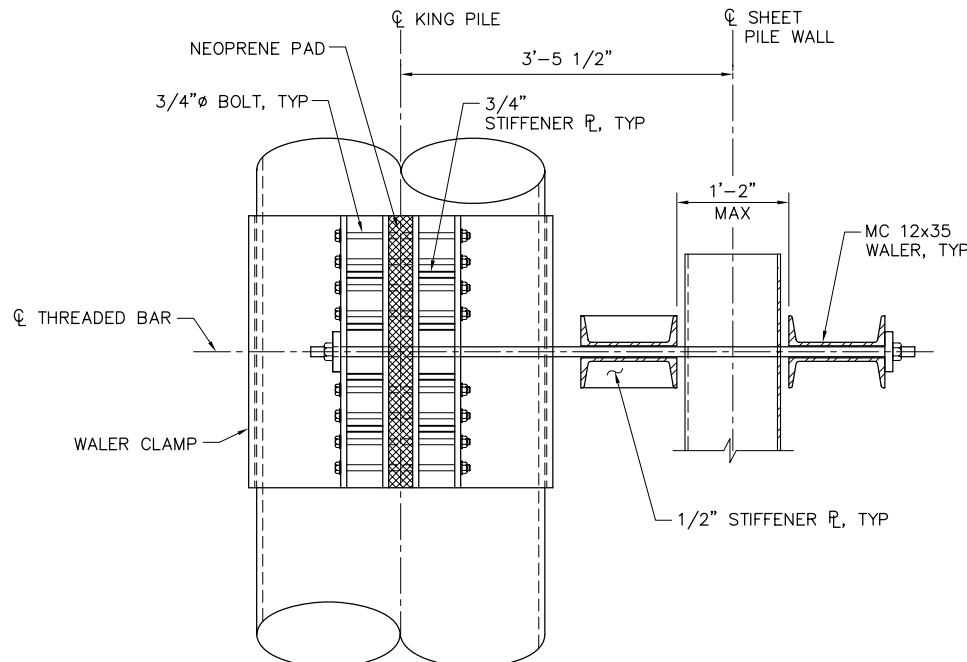
2 DETAIL
SCALE: 1" = 1'-0"



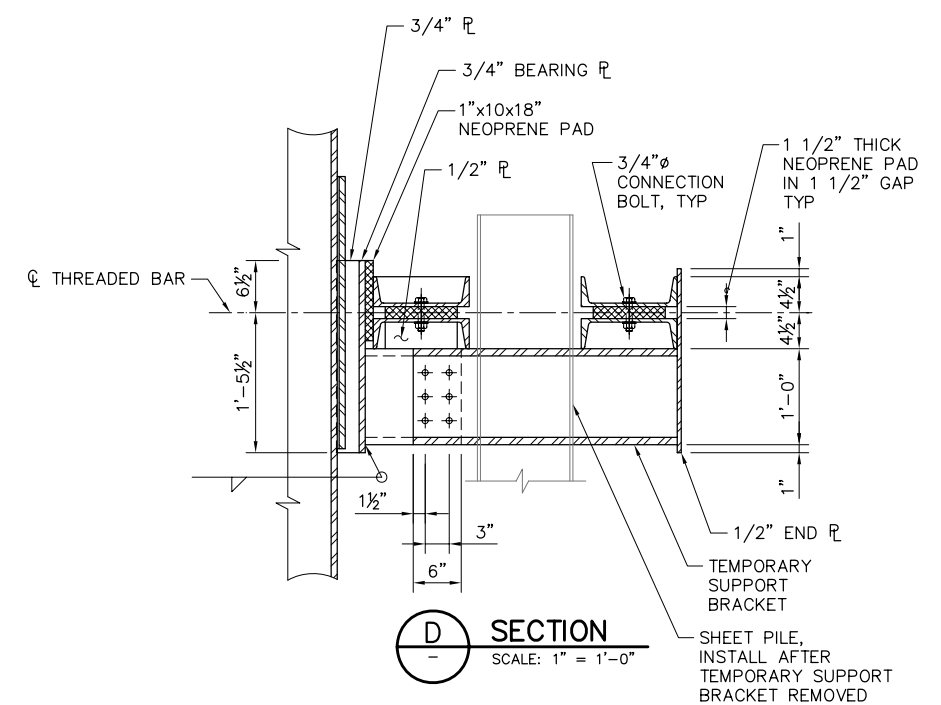
A SECTION
SCALE: 1 1/2" = 1'-0"



B SECTION
SCALE: 1" = 1'-0"



C SECTION
SCALE: 1" = 1'-0"



D SECTION
SCALE: 1" = 1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4" = 1'-0"

90% SUBMITTAL

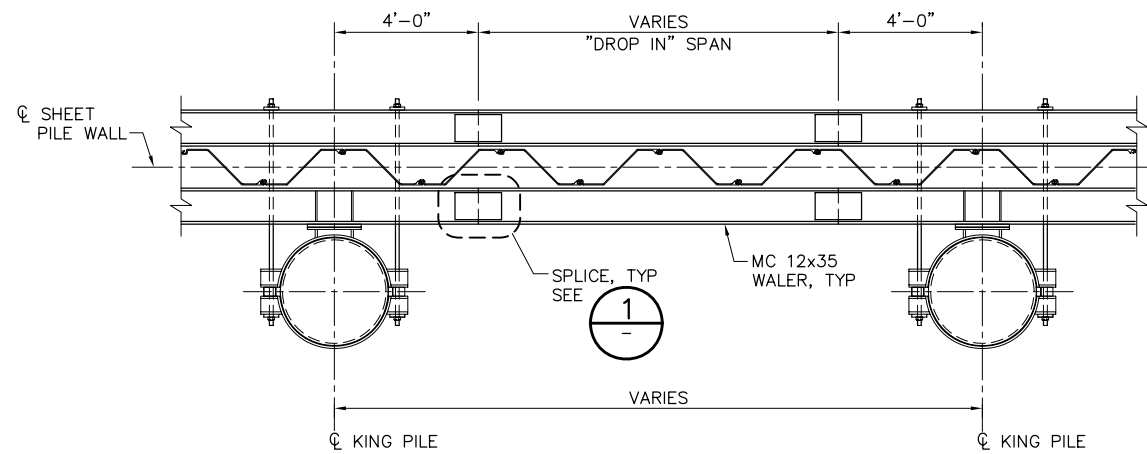
IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

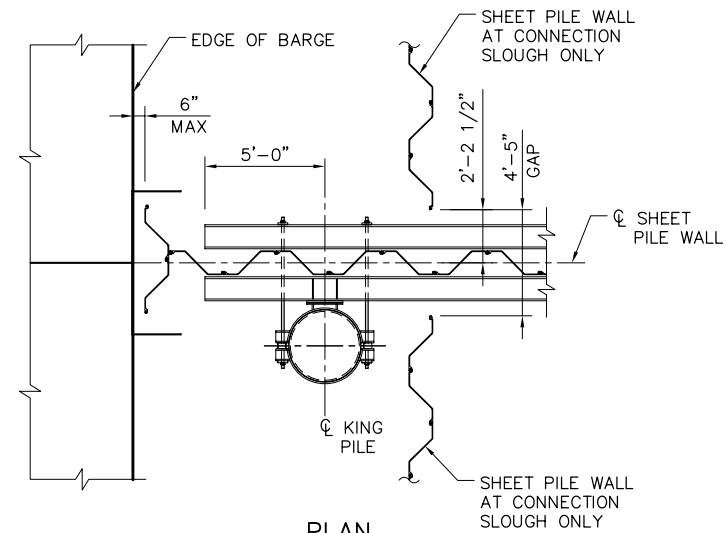
 Moffatt & Nichol		2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	
DSGN	JMB	DR	EP
JOB NO.	6097-03	SUBMITTED BY	RMR
CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
SHEET PILE WALL DETAILS SHEET 1		SHEET 46 OF 65
C63		

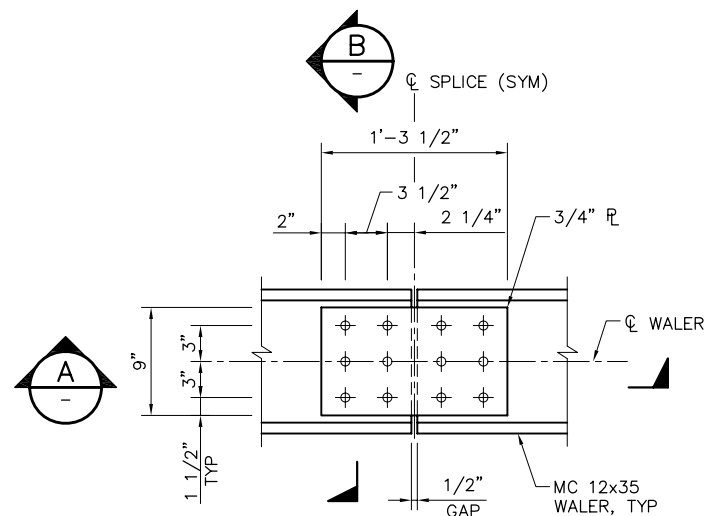
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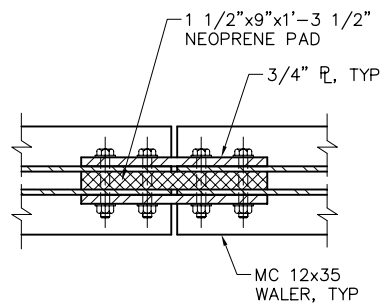
PLAN
TYPICAL WALER SPLICE DETAIL (SEE NOTE)
SCALE: 3/4" = 1'-0"



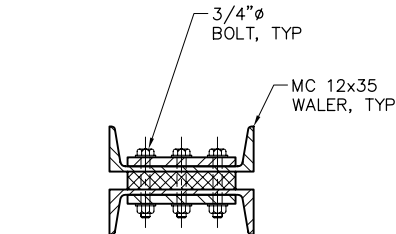
PLAN
DETAIL
SCALE: 1/4" = 1'-0"
C5, C6



PLAN
1
SCALE: 1 1/2" = 1'-0"

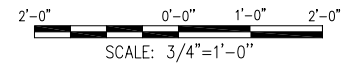


A
SECTION
SCALE: 1 1/2" = 1'-0"



B
SECTION
SCALE: 1 1/2" = 1'-0"

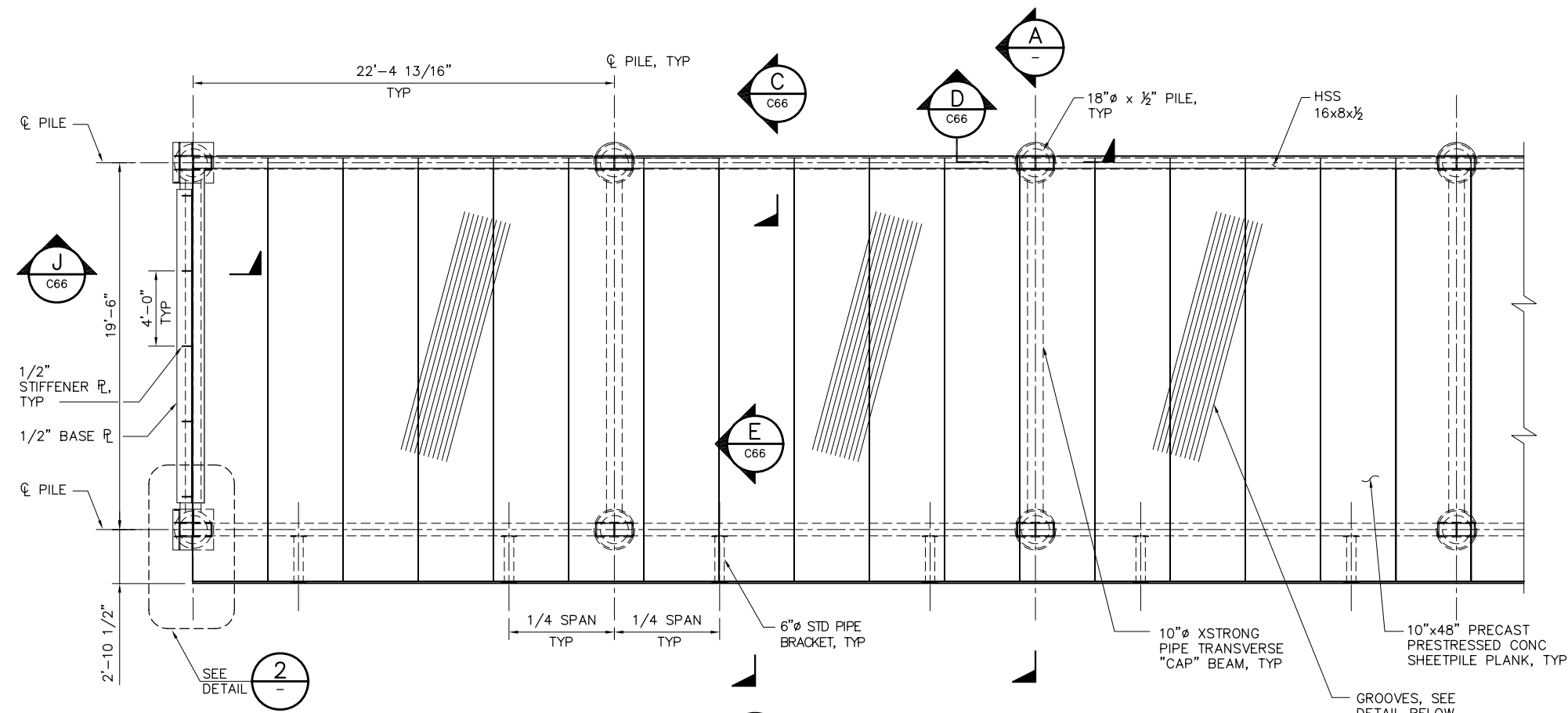
NOTE:
LOCATE WALER SPLICES AS REQUIRED.



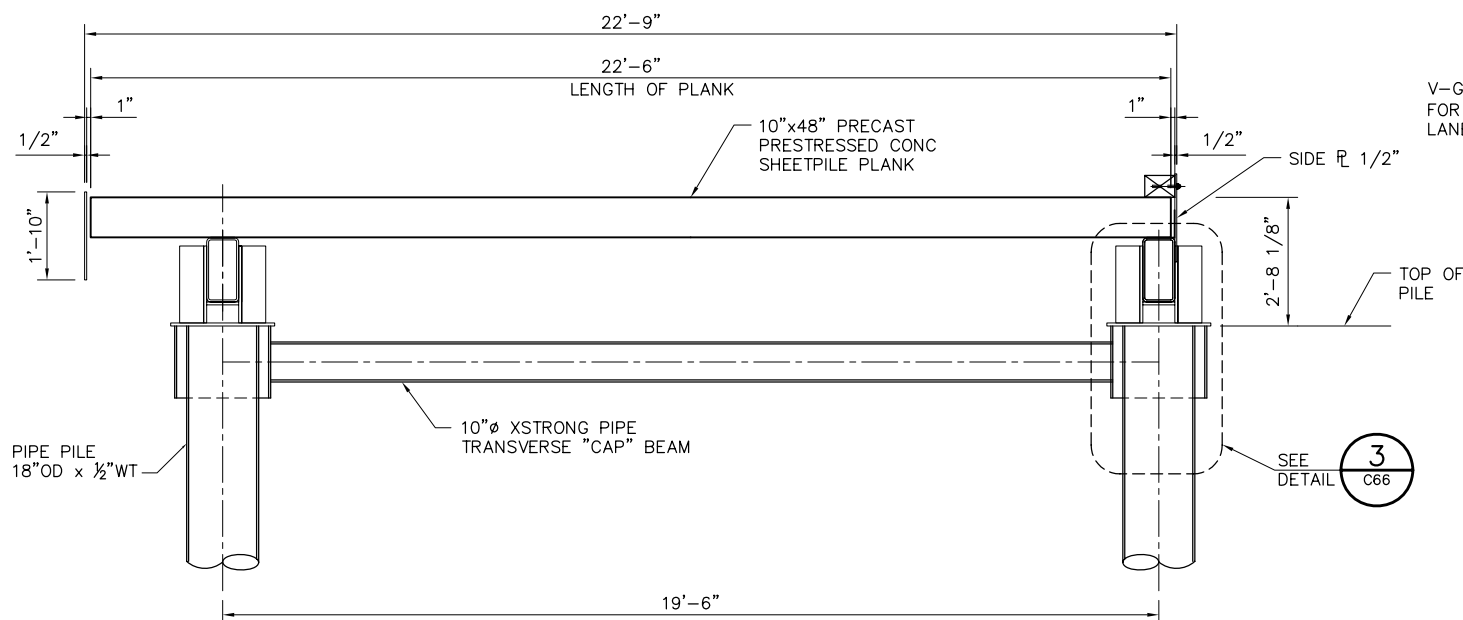
90% SUBMITTAL IF SHEET IS LESS THAN 22" x 34" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411 <table><tr><td>DSGN</td><td>JMB</td><td>DR</td><td>EP</td><td>CHK</td><td>TDB</td></tr><tr><td>JOB NO.</td><td>6097-03</td><td>SUBMITTED BY</td><td>RMR</td><td>TITLE</td><td></td></tr></table>	DSGN	JMB	DR	EP	CHK	TDB	JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE		TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
DSGN	JMB	DR	EP		CHK	TDB													
JOB NO.	6097-03	SUBMITTED BY	RMR		TITLE														
							SHEET 47 OF 65												

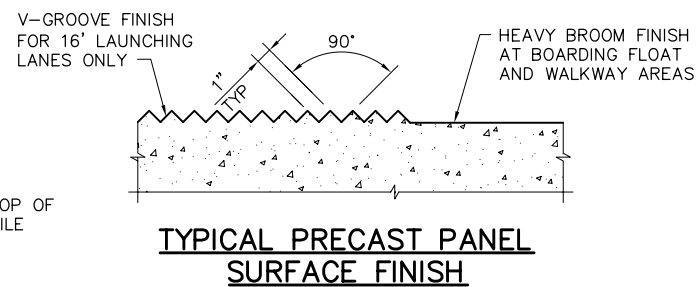
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1 DETAIL
SCALE: 1/4"=1'-0"



A SECTION
SCALE: 1/2"=1'-0"



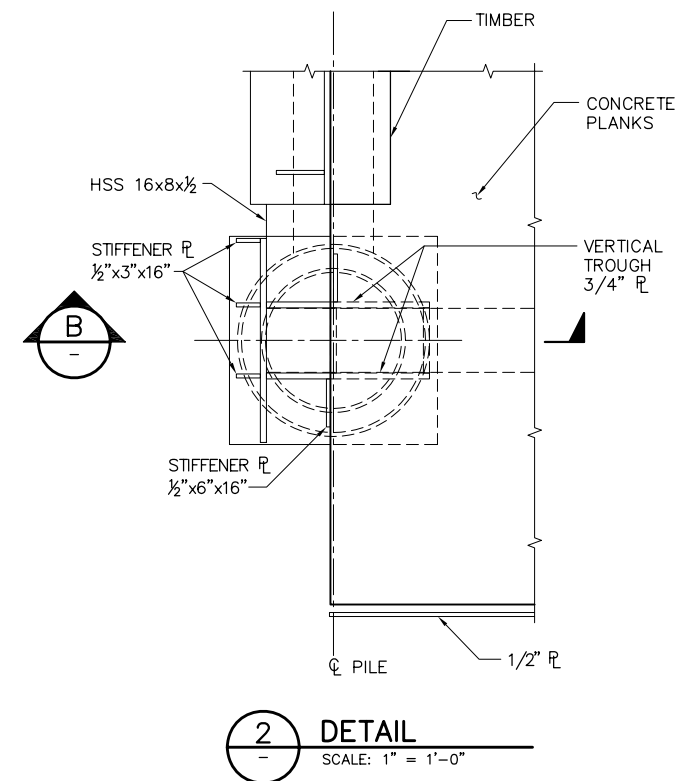
NOTE:

V-GROOVES ARE TO BE 1"x1" AND ALIGNED AT 60° TO THE LONGITUDINAL AXIS OF THE BOAT RAMP. UNDER NO CIRCUMSTANCES SHALL THE GROOVES EXCEED 1 1/2".

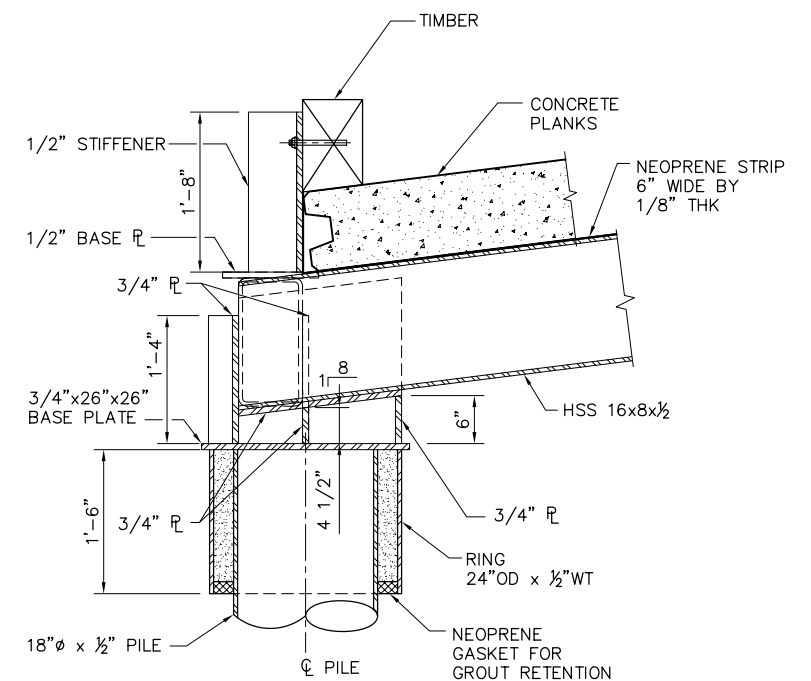
4'-0" 0'-0" 4'-0" 8'-0"
SCALE: 1/4"=1'-0"

2'-0" 0'-0" 2'-0" 4'-0"
SCALE: 1/2"=1'-0"

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"



2 DETAIL
SCALE: 1"=1'-0"



B SECTION
SCALE: 1"=1'-0"

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

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TWO GATE FISH PROTECTION PLAN

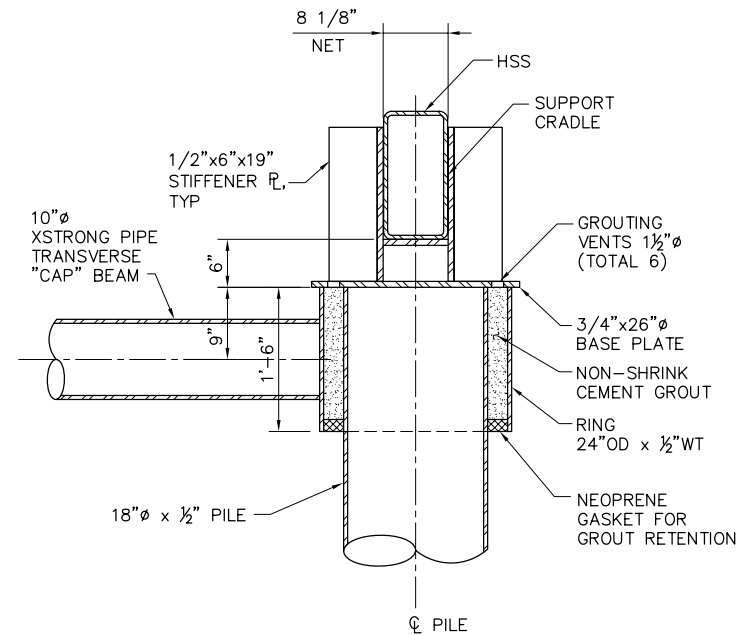
DATE 12/09/08

SHEET 48 OF 65

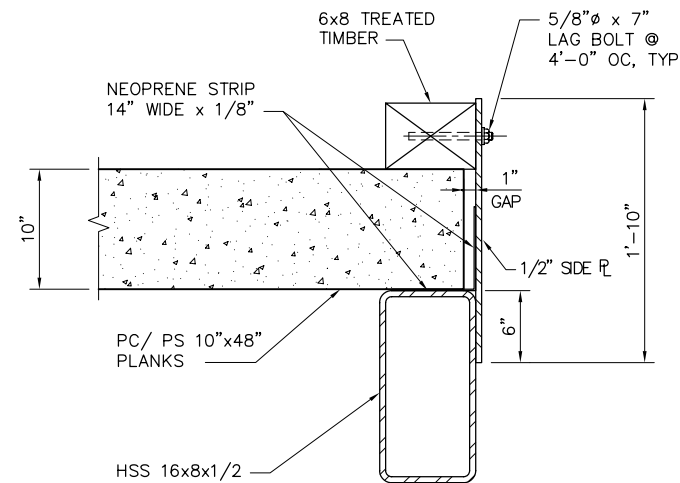
BOAT RAMP PLAN AND SECTIONS

C65

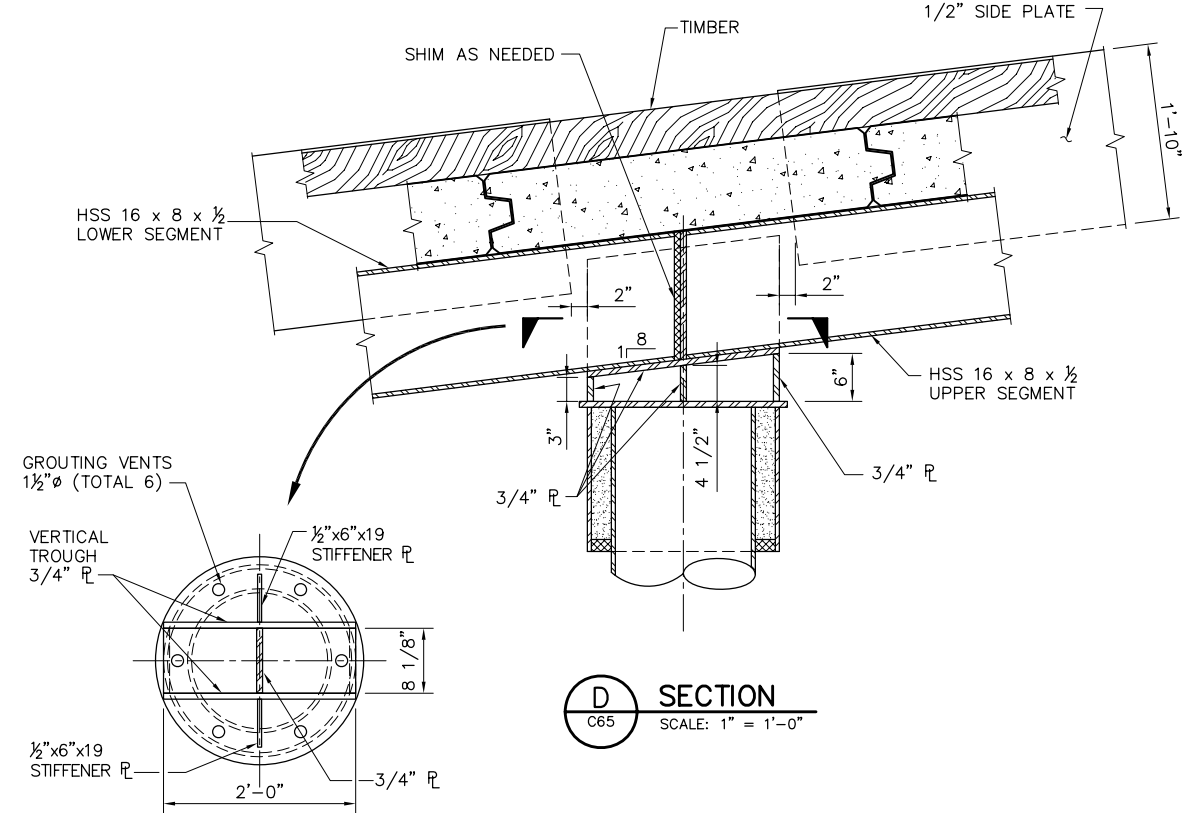
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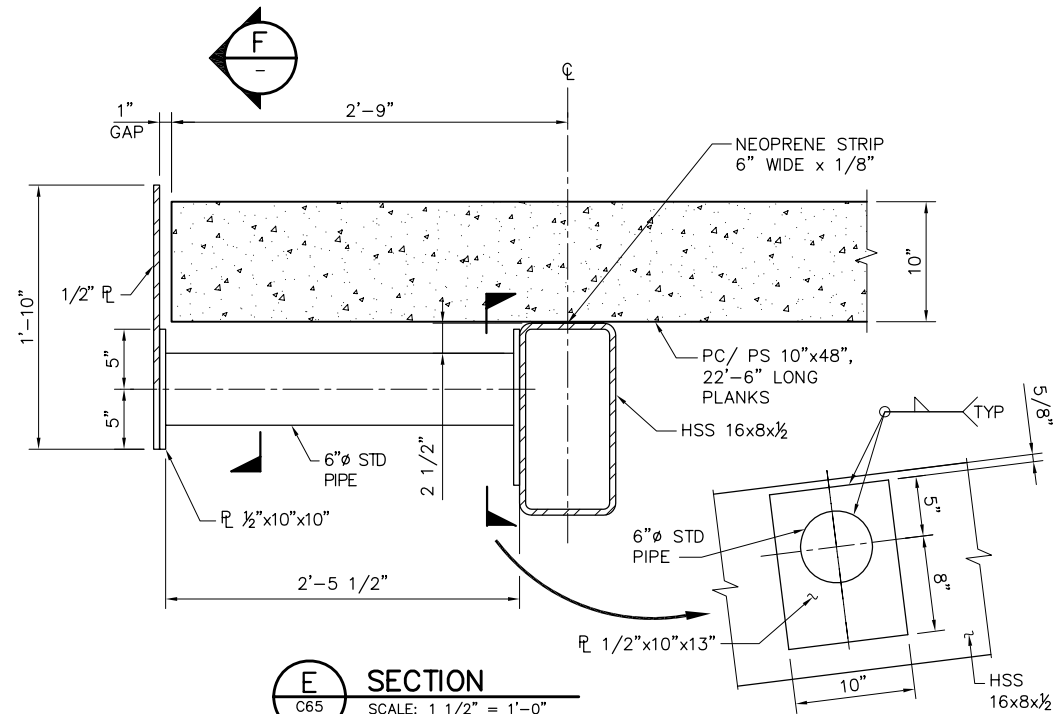
3 DETAIL
C65 SCALE: 1" = 1'-0"



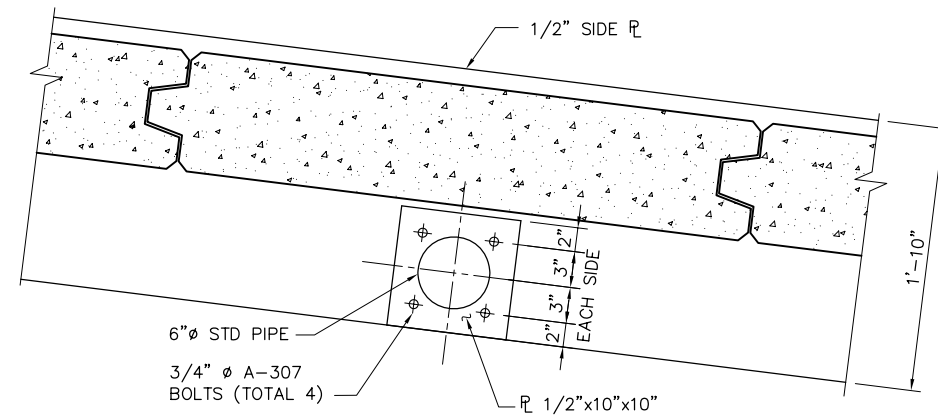
C SECTION
C65 SCALE: 1 1/2" = 1'-0"



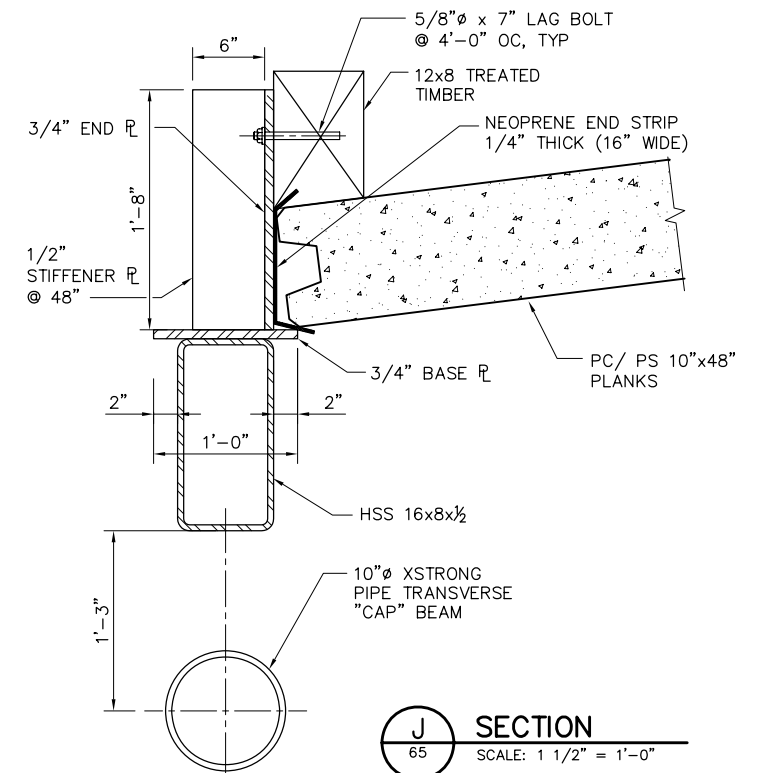
D SECTION
C65 SCALE: 1" = 1'-0"



E SECTION
C65 SCALE: 1 1/2" = 1'-0"



F SECTION
SCALE: 1 1/2" = 1'-0"



J SECTION
65 SCALE: 1 1/2" = 1'-0"

NOTE:
NEOPRENE STRIPS
ARE PREGLUED
TO CONCRETE PLANKS.

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1" = 1'-0"

1'-0" 0'-0" 6" 1'-0"
SCALE: 1 1/2" = 1'-0"

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

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TWO GATE FISH PROTECTION PLAN

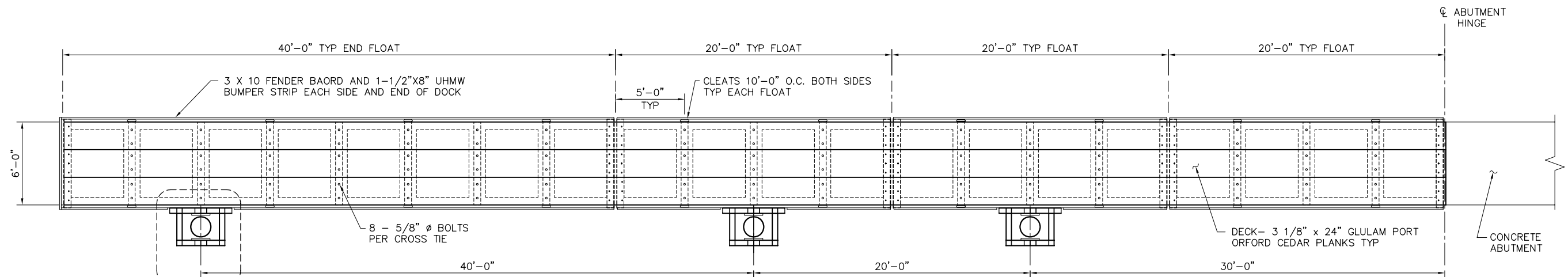
DATE 12/09/08

SHEET 49 OF 65

BOAT RAMP DETAILS

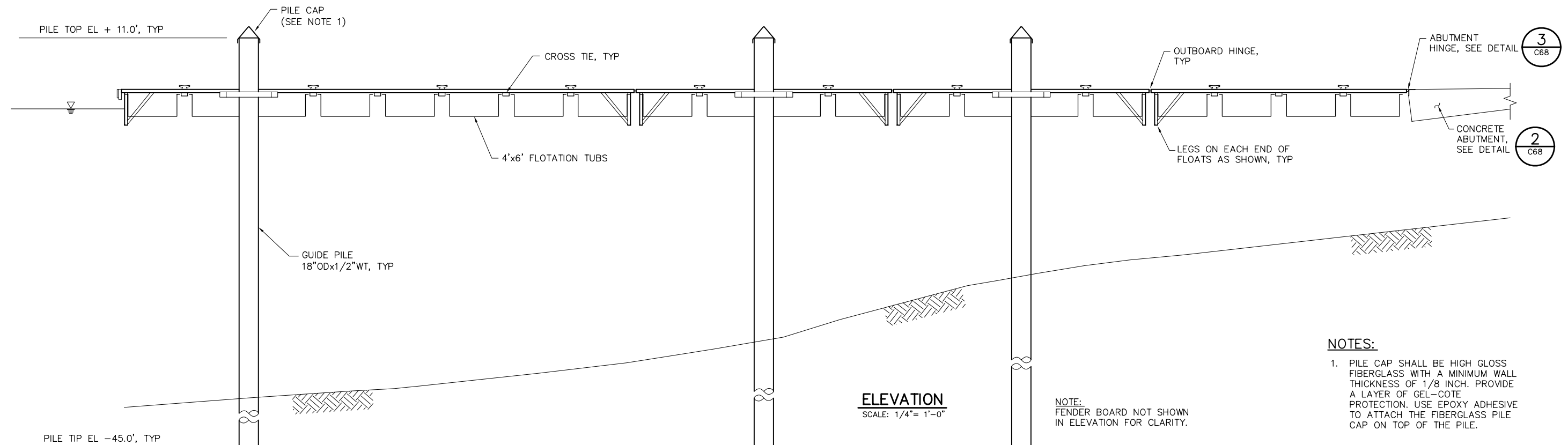
C66

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PLAN
SCALE: 1/4" = 1'-0"

NOTE:
ALL BOLTS THROUGH THE GLUED LAMINATED DECK SHALL BE ECONOMY BOLTS WITH STEEL FLAT WASHERS, HEX NUTS AND LOCK NUTS (SEE SPECS), ALL HOT DIPPED GALVANIZED. SEE DETAILS FOR BOLT DIAMETERS.



NOTES:

1. PILE CAP SHALL BE HIGH GLOSS FIBERGLASS WITH A MINIMUM WALL THICKNESS OF 1/8 INCH. PROVIDE A LAYER OF GEL-COTE PROTECTION. USE EPOXY ADHESIVE TO ATTACH THE FIBERGLASS PILE CAP ON TOP OF THE PILE.

4'-0" 0'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

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CHK	TDB	TITLE	

TWO GATE FISH PROTECTION PLAN

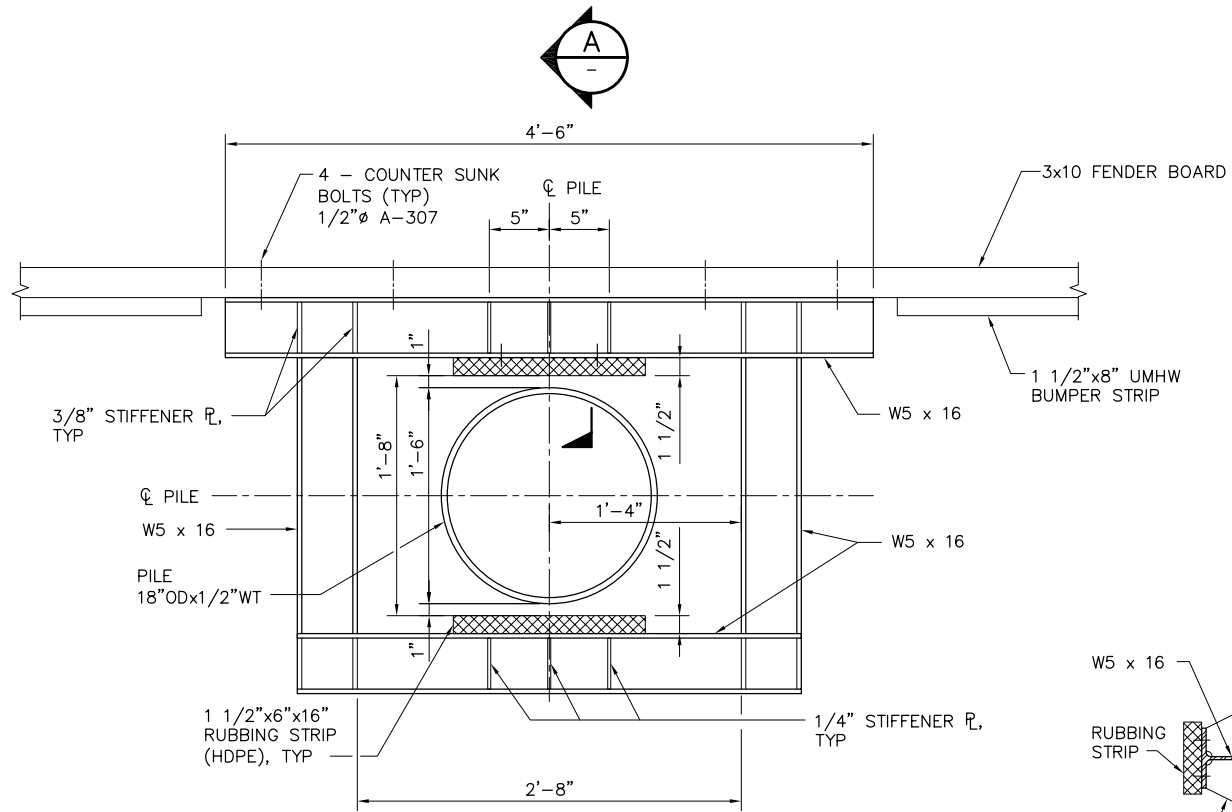
DATE 12/09/08

SHEET 50 OF 65

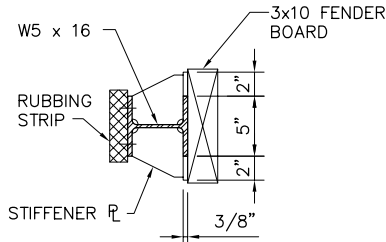
**BOARDING FLOAT
PLAN AND ELEVATION**

C67

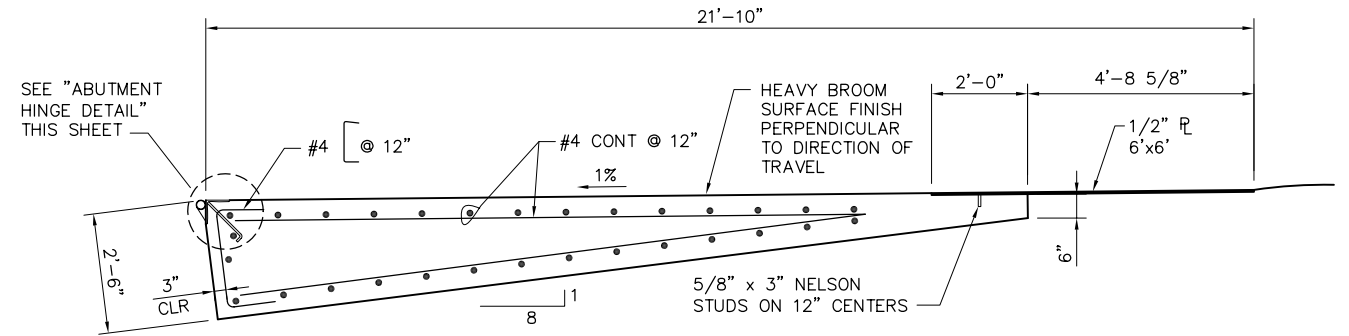
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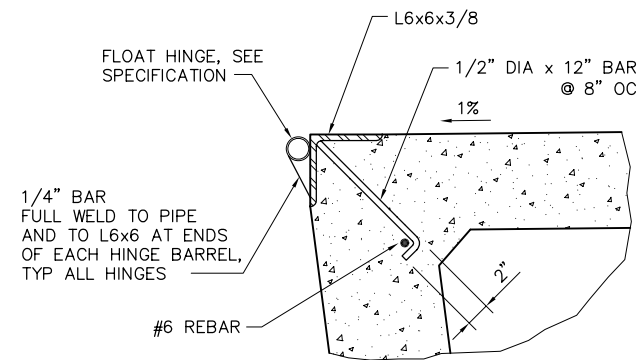
1 **DETAIL**
C67 SCALE: 1 1/2" = 1'-0"



A **SECTION**
SCALE: 1 1/2" = 1'-0"



2 **ABUTMENT DETAIL**
C67 SCALE: 1/2" = 1'-0"



NOTES:

1. FACE OF ABUTMENT IS PERPENDICULAR TO RAMP SURFACE.
2. GALVANIZE HINGE ASSEMBLY AFTER FABRICATION.
3. ALL WELDS TO BE MADE WITH HINGE PIN IN PLACE TO ASSURE PROPER FIT.
4. FLOAT HINGE - 1.000" DIA.S.S ROD W/COTTER KEYS @ ENDS & IGLIDE FLANGE BEARINGS #JFI-1620 (10 REQD) BY IGUS IND.(PROVIDE 100% SPARES)

3 **ABUTMENT HINGE DETAIL**
C67 SCALE: 1 1/2" = 1'-0"

1'-0" 0'-0" 6" 1'-0"
SCALE: 1 1/2"=1'-0"

2'-0" 0'-0" 2'-0" 4'-0"
SCALE: 1/2"=1'-0"

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



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

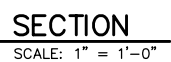
TWO GATE FISH PROTECTION PLAN

DATE 12/09/08

SHEET 51 OF 65

BOARDING FLOAT DETAILS

C68



IF SHEET IS LESS THAN 22" x 34"
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Moffatt & Nichol

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TWO GATE FISH PROTECTION PLAN

DATE 12/09/08

SHEET 52 OF 65

CATWALK DETAILS
SHEET 1

C69

3'-6"

1'-9"

3'-0" CLEAR

1 1/2" GRATING

MC 12x35 CROSS BRACING

1/4" STIFFENER TYP

8 1/2"

1'-10"

MC 12x35 SUPPORT BRACKET

1/2"x6"x22, TYP

3/4" FL

1/2" FL

2" GAP

6"

MC12x35

1'-6"

3/4"

2'-0"

3'-9 1/2"

2'-10"

3/4" FL

MC12x35

2" GAP

1/2" x 6" x 22", TYP

1 1/2" DIA
STD
PIPE (TYP)

2" DIA STD
PIPE
POST (TYP)

3/16"

3/16"

TREAD,
BY McNICHOLS
OR EQUAL
(TYP)

1/4" STIFF
PLATE, TYP

MC12x35

B

SECTION

SCALE: 1"=1'-0"

1 1/2" GRATING (TYP)

8 3/8" TYP

1'-1 3/4"

11 1/2" TYP

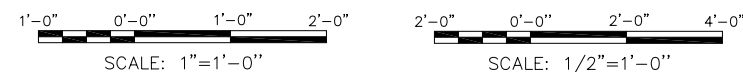
MC12x35 CROSS BRACING

STIFFENER

MC12x35

STANDARD WELDED STEEL TREADS TYPE "B" BY McNICHOLS CO OR EQUAL (WITH CHECKERED PLATE NOSING, TYP)

5
-
DETAIL
SCALE: 1"=1'-0"



90% SUBMITTAL IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT –
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



2001 N. Main Street, Suite 360
Walnut Creek, California 94596
(925) 944-5411

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

TWO GATE FISH PROTECTION PLAN

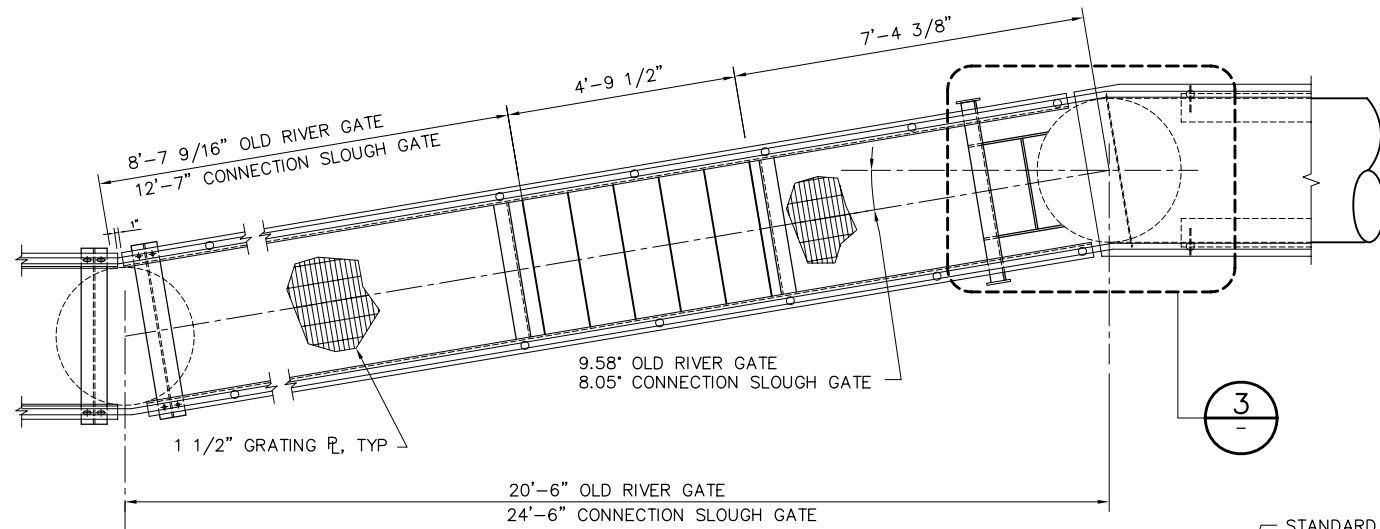
DATE 12/09/08

SHEET 53 OF 65

CATWALK DETAILS
SHEET 2

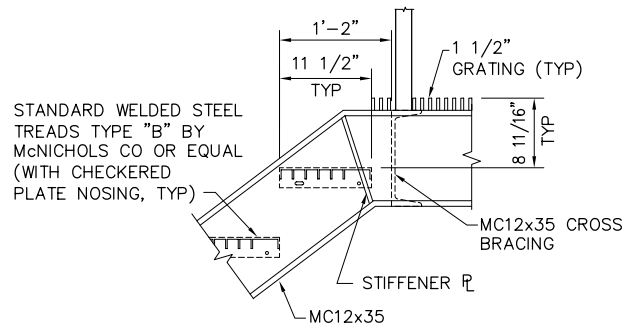
C70

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C71.DWG 12/8/2008 2:15 PM

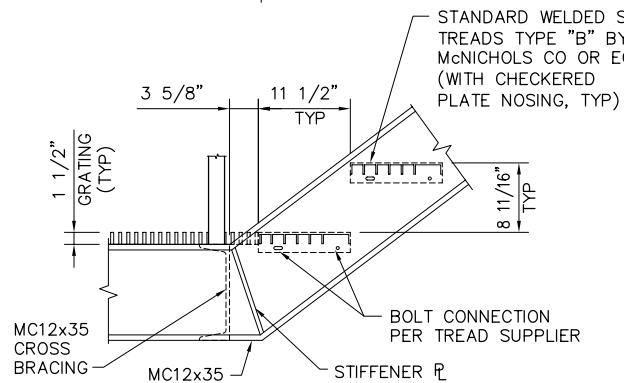


PLAN

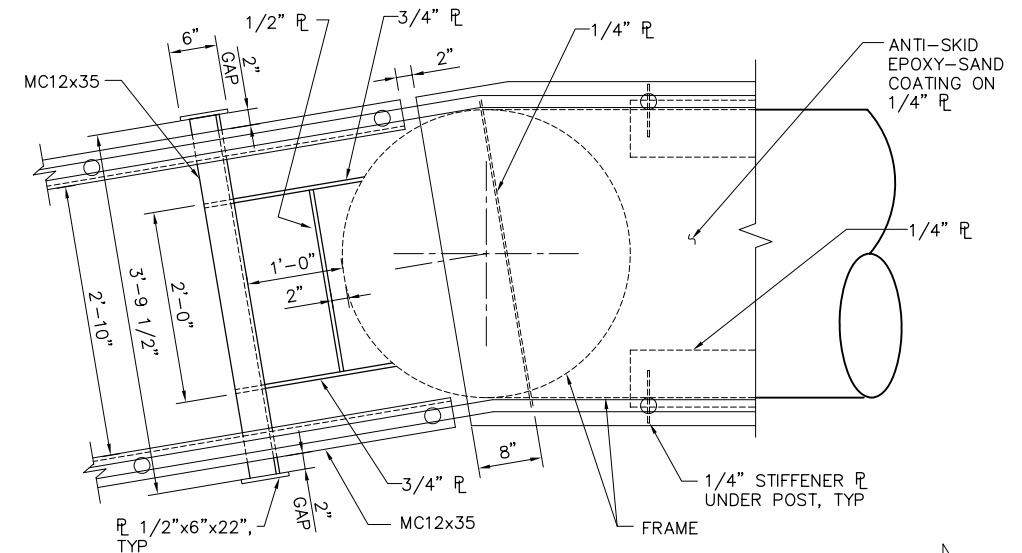
1 DETAIL
C11 SCALE: 1/2" = 1'-0"



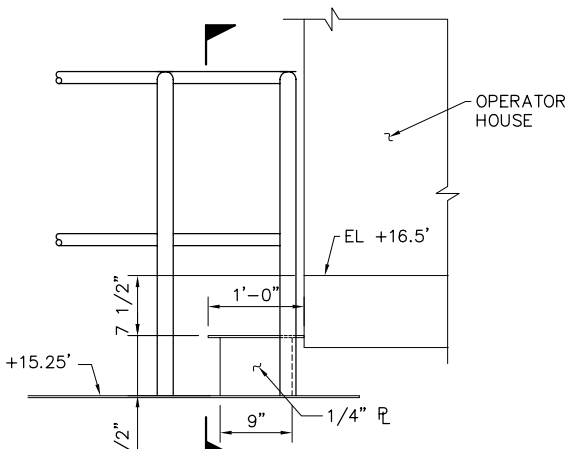
4 DETAIL
SCALE: 1"=1'-0"



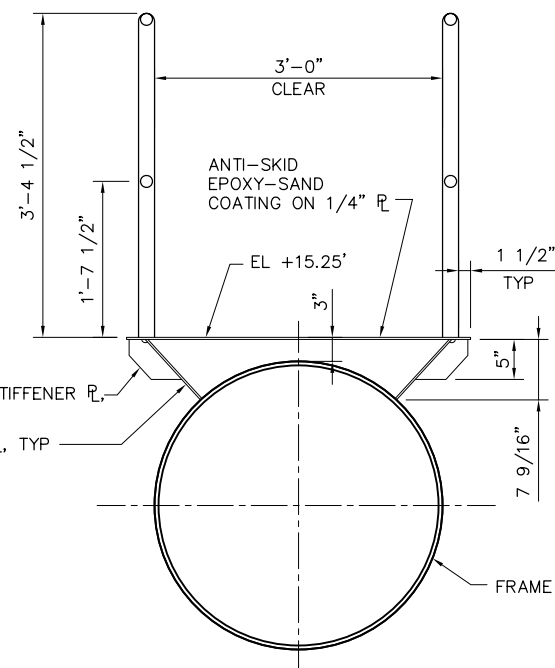
5 DETAIL
SCALE: 1"=1'-0"



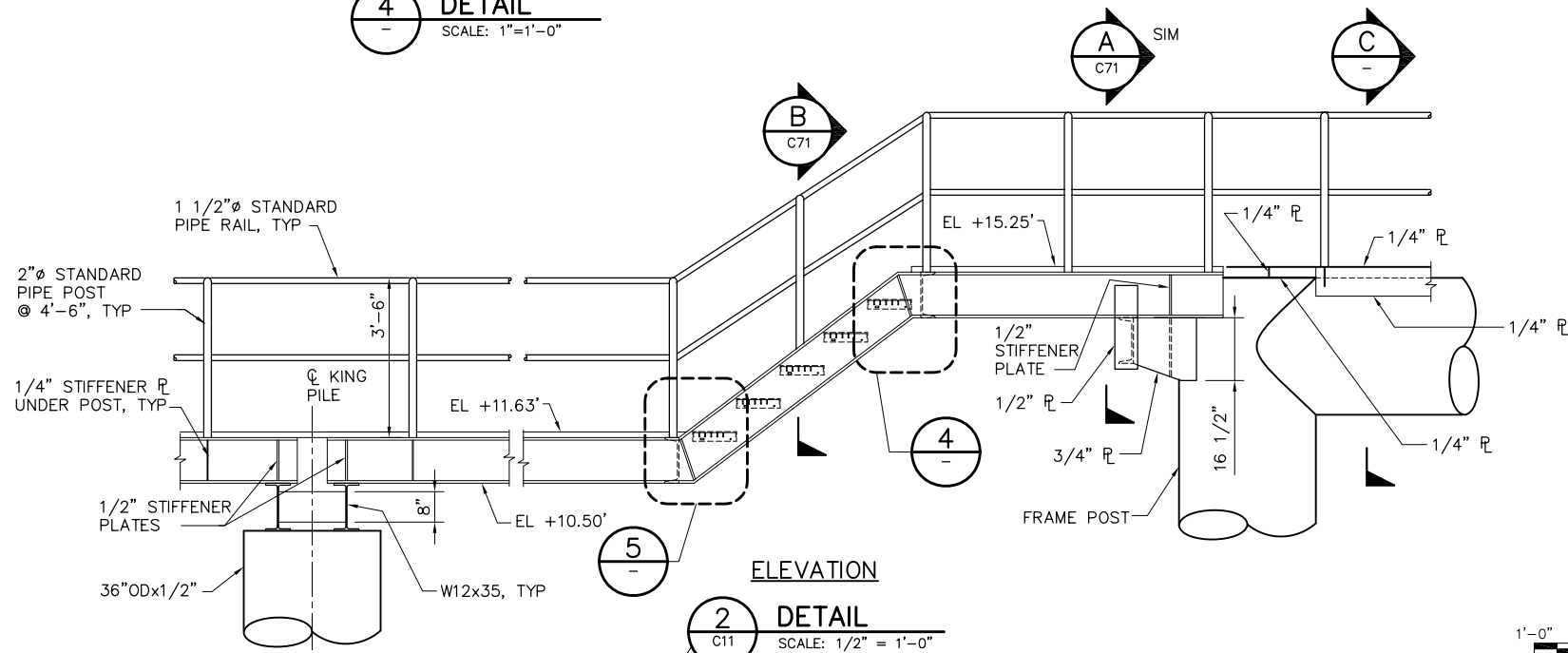
3 DETAIL
SCALE: 1"=1'-0"



6 DETAIL
SCALE: 1"=1'-0"



C SECTION
SCALE: 1"=1'-0"



ELEVATION

2 DETAIL
C11 SCALE: 1/2" = 1'-0"

1'-0" 0'-0" 1'-0" 2'-0" SCALE: 1"=1'-0"

2'-0" 0'-0" 2'-0" 4'-0" SCALE: 1/2"=1'-0"

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



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(925) 944-5411

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

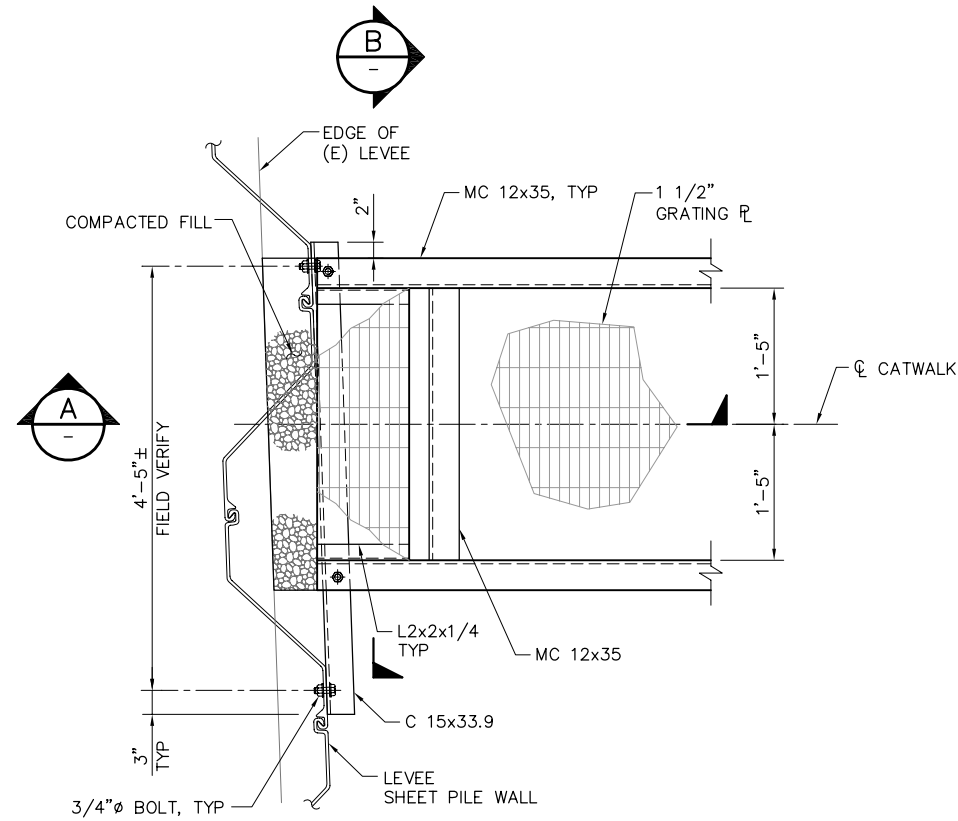
TWO GATE FISH PROTECTION PLAN

DATE 12/09/08

SHEET 54 OF 65

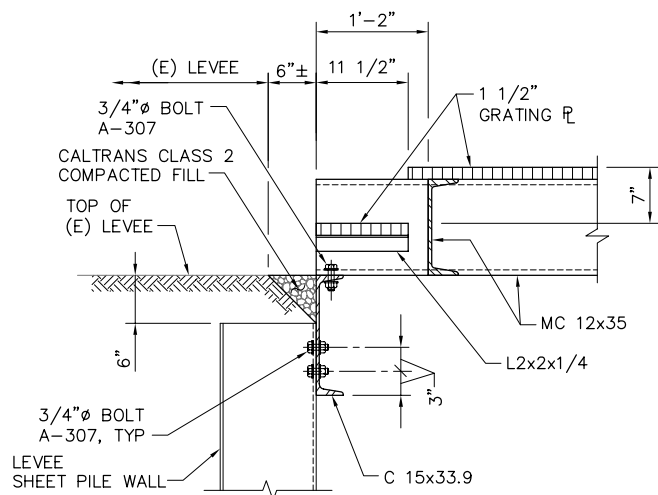
CATWALK DETAILS
SHEET 3

C71

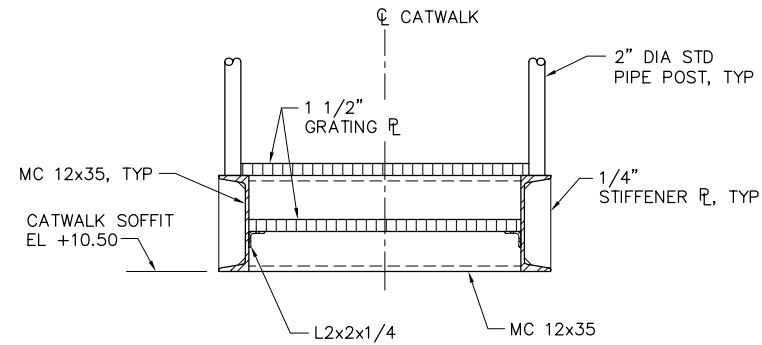


PLAN AT END OF CATWALK

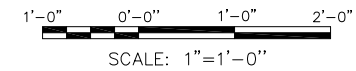
1
C11
DETAIL
SCALE: 3/4" = 1'-0"



A
-
SECTION
SCALE: 1" = 1'-0"



B
-
SECTION
SCALE: 1" = 1'-0"



90% SUBMITTAL

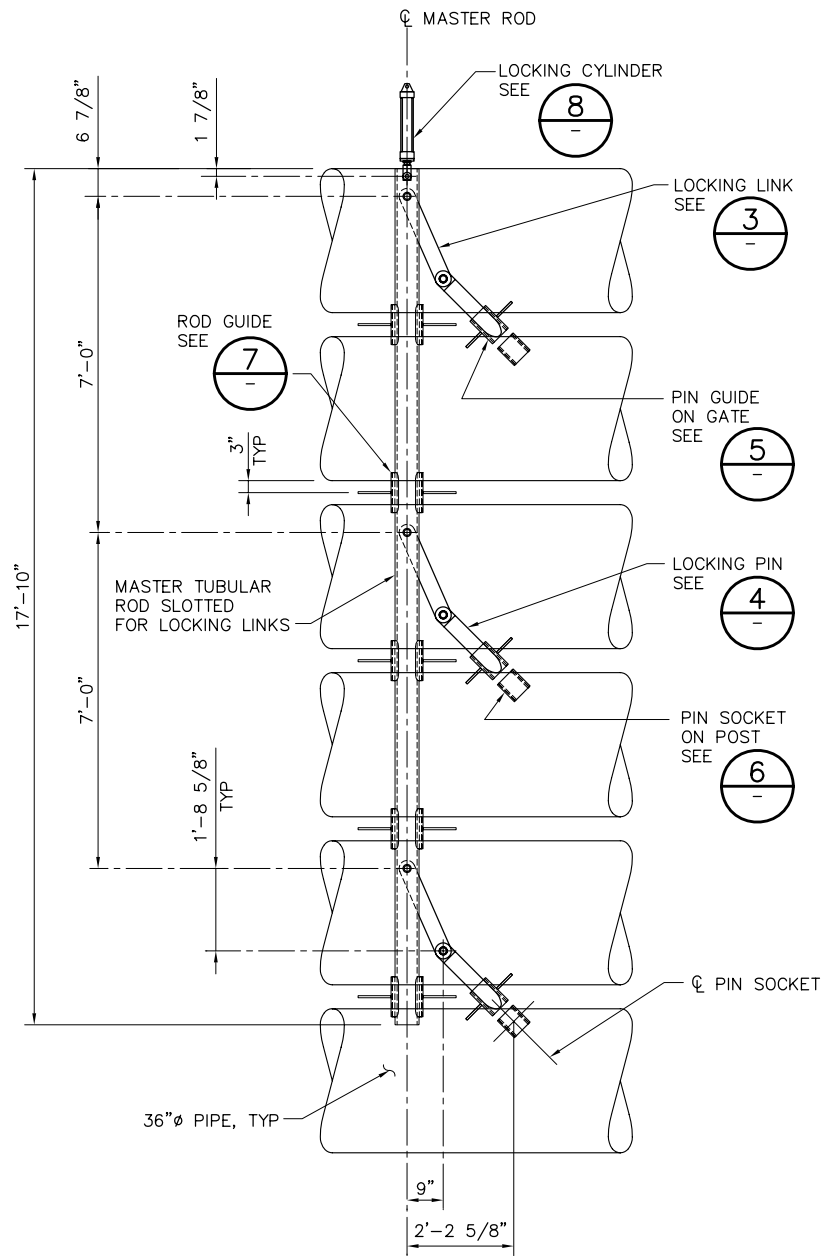
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

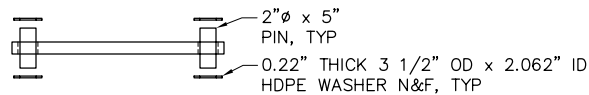
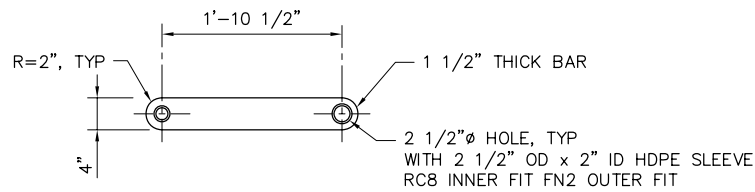
 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411		DSGN JMB DR EP CHK TDB	
		JOB NO. 6097-03 SUBMITTED BY RMR TITLE	

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 55 OF 65
CATWALK DETAILS SHEET 4	
C72	

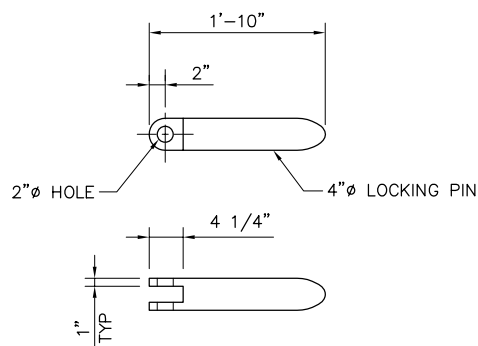
P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C73-C74.DWG 12/8/2008 2:18 PM



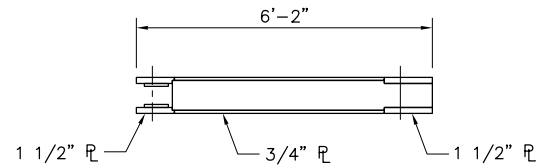
1 GATE OPEN LOCK (UNLOCKED) DETAIL
SCALE: 1/2" = 1'-0"



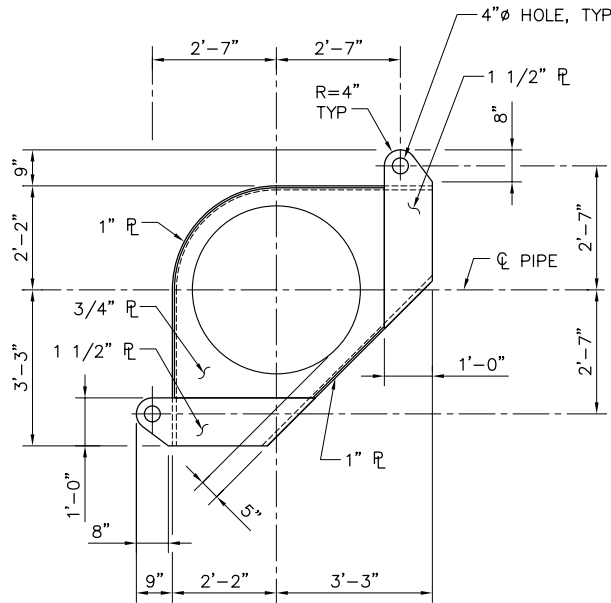
3 LOCKING LINK DETAIL
SCALE: 1" = 1'-0"



4 LOCKING PIN DETAIL
SCALE: 1" = 1'-0"

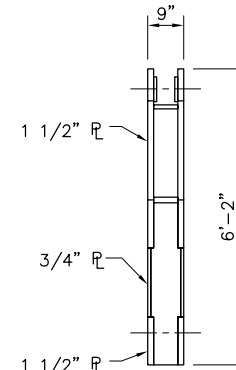


ELEVATION

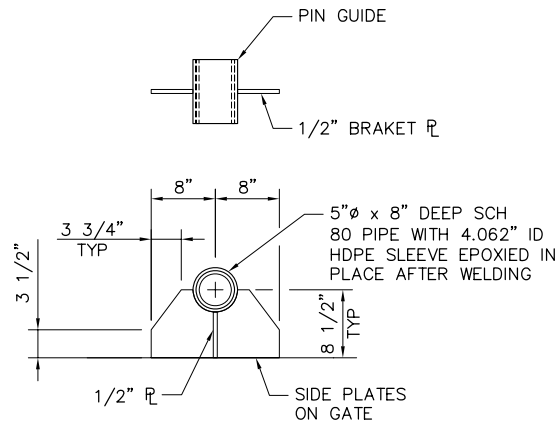


PLAN

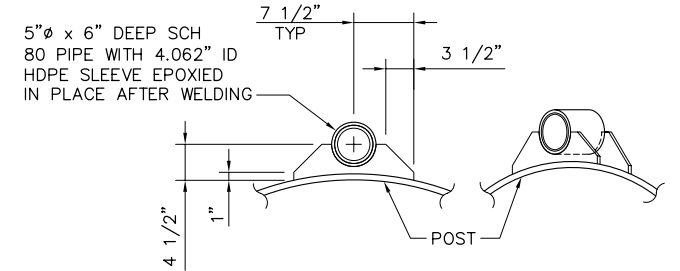
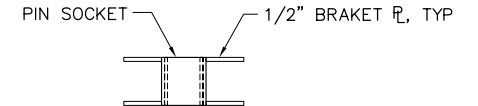
2 GATE ROTATOR YOKE DETAIL
SCALE: 1/2" = 1'-0"



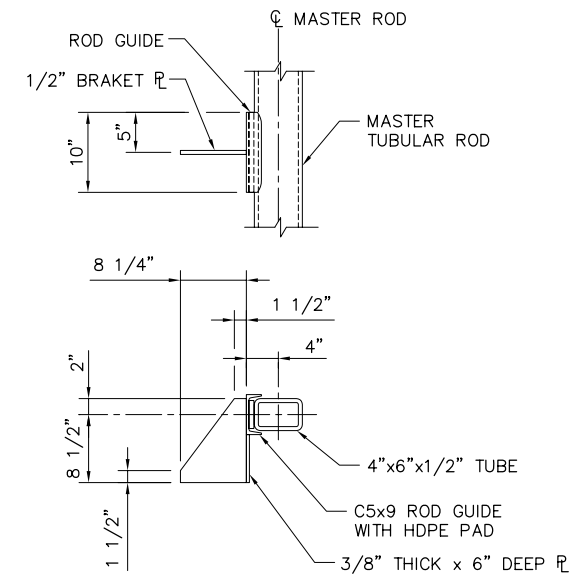
SIDE VIEW



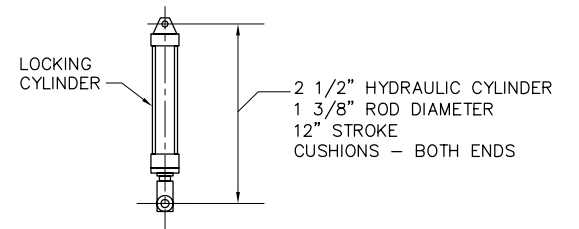
5 PIN GUIDE DETAIL
SCALE: 1" = 1'-0"



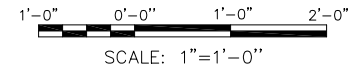
6 PIN SOCKET DETAIL
SCALE: 1" = 1'-0"



7 ROD GUIDE DETAIL
SCALE: 1" = 1'-0"



8 LOCKING CYLINDER DETAIL
SCALE: 1" = 1'-0"



90% SUBMITTAL

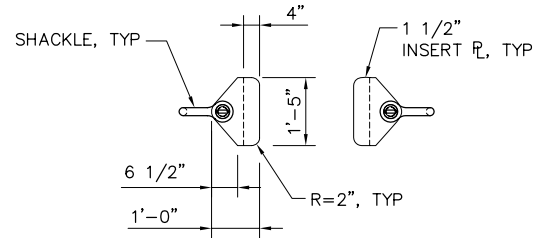
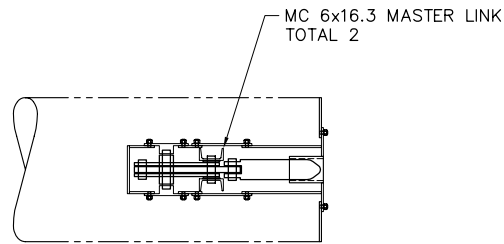
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE

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

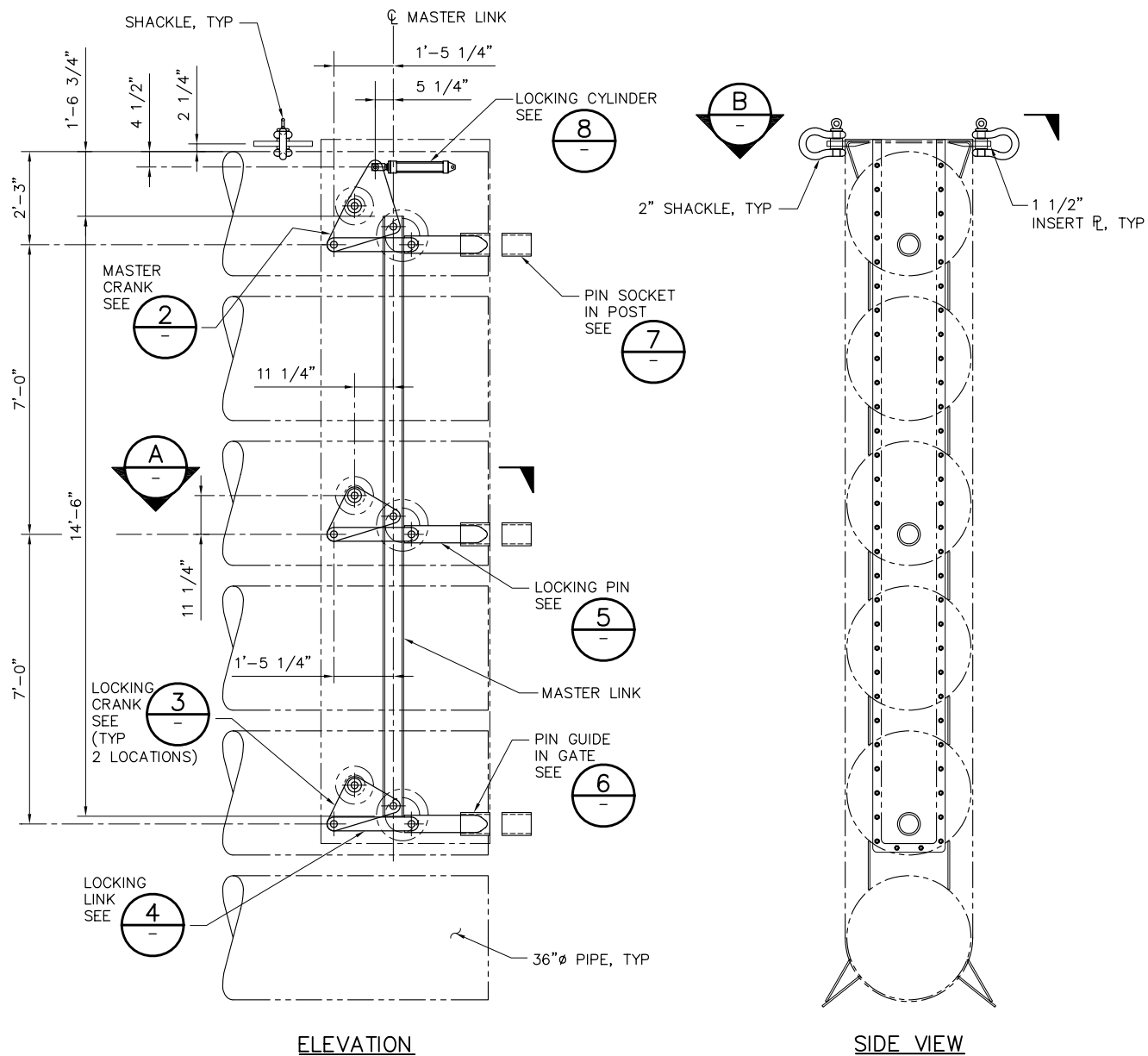
TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
GATE MECHANICAL DETAILS SHEET 1		SHEET 56 OF 65
C73		

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C73-C74.DWG 12/8/2008 2:18 PM



A SECTION
SCALE: 1/2" = 1'-0"

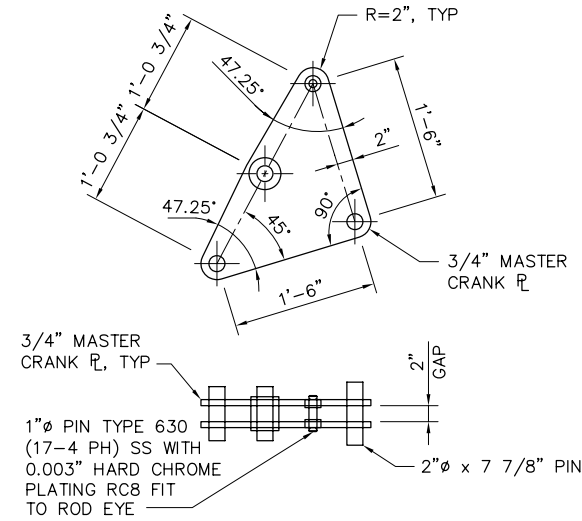
B SECTION
SCALE: 1/2" = 1'-0"



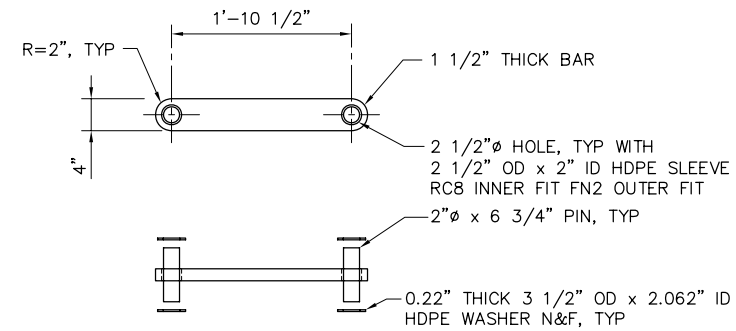
ELEVATION

SIDE VIEW

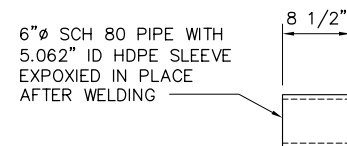
1 GATE CLOSED LOCK (UNLOCKED) DETAIL
SCALE: 1/2" = 1'-0"



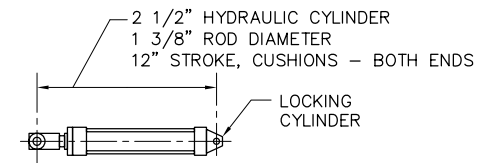
2 MASTER CRANK DETAIL
SCALE: 1" = 1'-0"



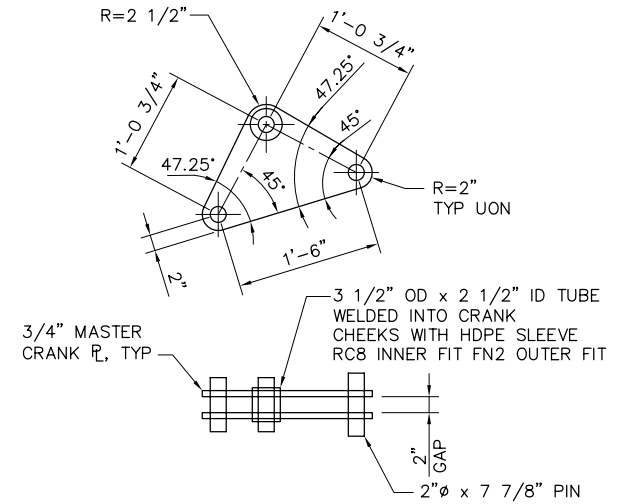
4 LOCKING LINK DETAIL
SCALE: 1" = 1'-0"



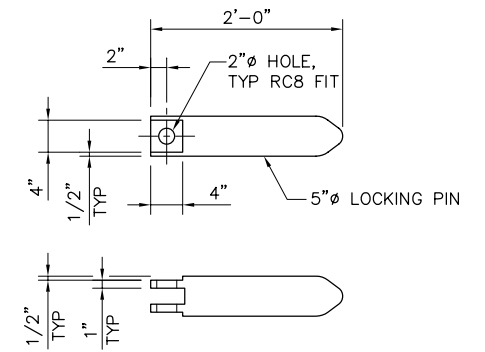
6 PIN GUIDE DETAIL
SCALE: 1" = 1'-0"



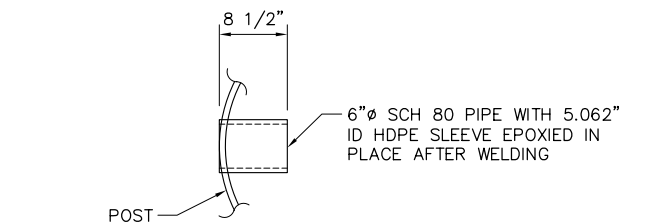
8 LOCKING CYLINDER DETAIL
SCALE: 1" = 1'-0"



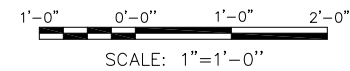
3 LOCKING CRANK DETAIL
SCALE: 1" = 1'-0"



5 LOCKING PIN DETAIL
SCALE: 1" = 1'-0"



7 PIN SOCKET DETAIL
SCALE: 1" = 1'-0"

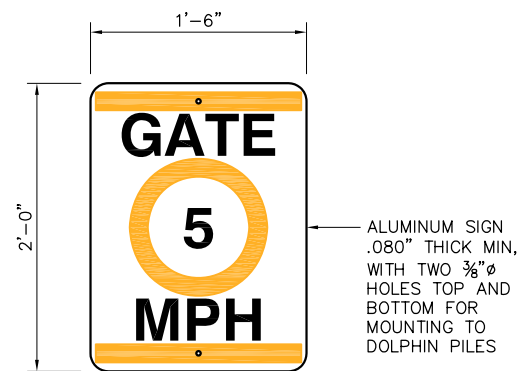


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IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

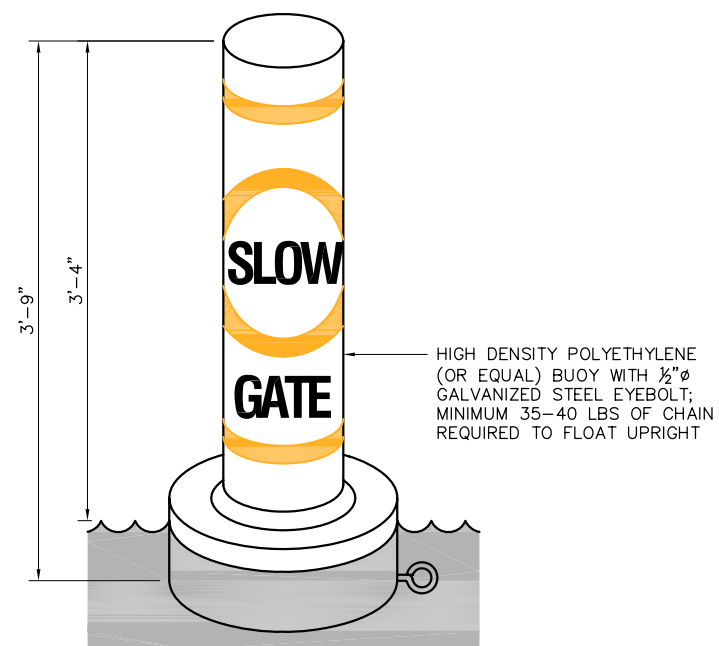
REVISION	DESCRIPTION	BY	DATE

 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411			TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
			GATE MECHANICAL DETAILS SHEET 2		SHEET 57 OF 65
DSGN CBS	DR CBS/EP	CHK TDB	C74		
JOB NO. 6097-03	SUBMITTED BY RMR	TITLE			



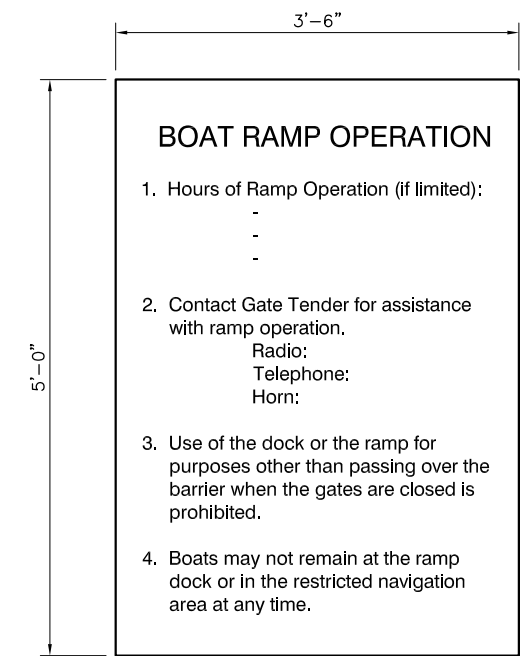
SIGNBOARD ON PILE, ORANGE ON WHITE WITH BLACK LETTERS

1 DOLPHIN PILE SIGN
C19 SCALE: 1/8" = 1'-0"
C47



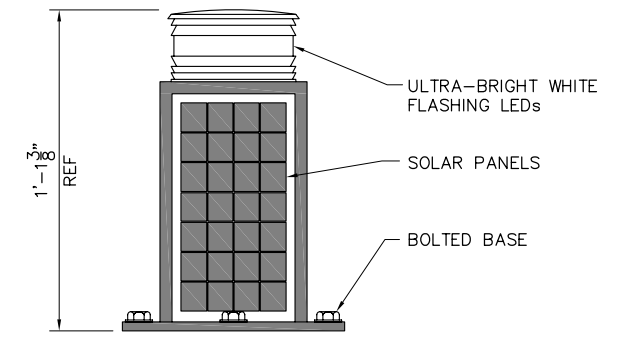
ORANGE ON WHITE WITH BLACK LETTERS

2 BUOY SIGN
C19 SCALE: 1/8" = 1'-0"
C47



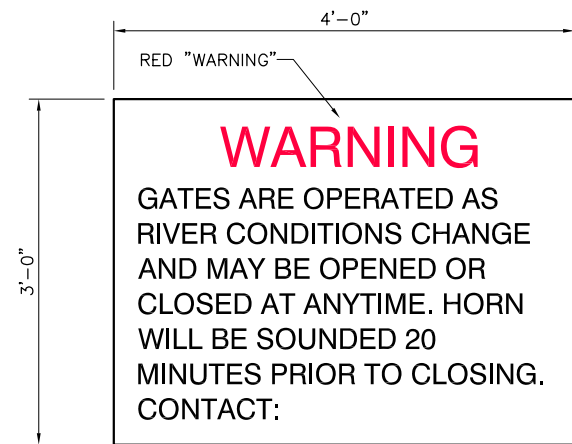
BLACK LETTERS ON WHITE PAINTED ALUMINUM BOARD

3 BOAT RAMP DOCK SIGN
C19 SCALE: NONE
C47



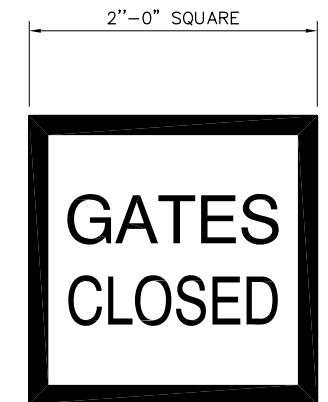
OBSTRUCTION LIGHT; MOUNTED ATOP GATE PIVOT AND ALONG SHEET PILE WHERE NOTED CARMANAH MODEL M702-5GPS OR EQUAL

4 OBSTRUCTION LIGHT
C19 SCALE: NONE
C47



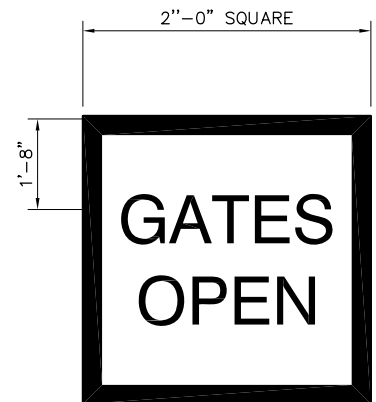
BLACK LETTERS ON WHITE PAINTED ALUMINUM BOARD

5 GATE WARNING SIGN 1
C19 SCALE: NONE
C47

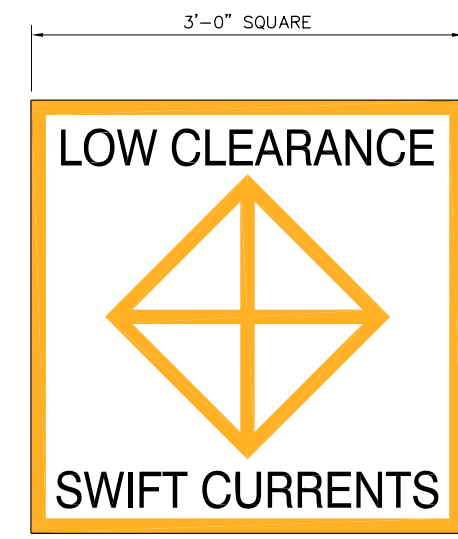


BLACK LETTERS AND BORDER ON WHITE PAINTED ALUMINUM BOARD

6 GATE POSITION SIGNS
C19 SCALE: 1/8" = 1'-0"
C47

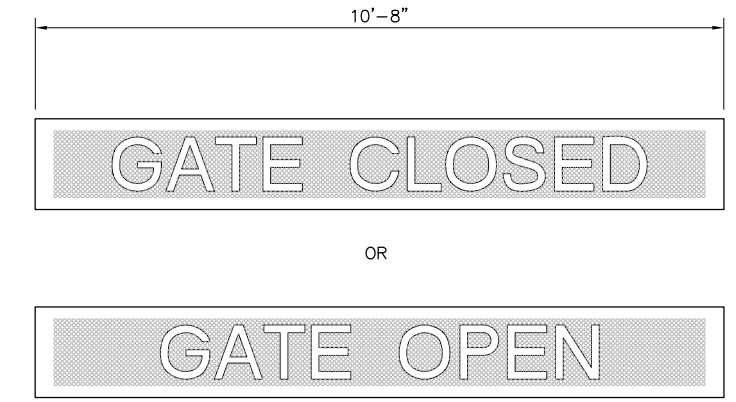


BLACK LETTERS AND BORDER ON WHITE PAINTED ALUMINUM BOARD



ORANGE SYMBOL AND BORDER, BLACK LETTERS ON WHITE PAINTED ALUMINUM BOARD

7 GATE WARNING SIGN 2
C19 SCALE: 1/8" = 1'-0"
C47



PROGRAMMABLE ELECTRIC MESSAGEBOARD 12 LETTER, 12" HIGH, VISIBLE FROM 600', MOUNTED ON OPERATOR HOUSE ROOF ONE EACH FACING UPSTREAM & DOWNSTREAM MODEL PDR0112-12 FROM GRANDWELL DISPLAYS OR EQUAL

8 ELECTRONIC MESSAGE SIGN
C19 SCALE: NONE
C47

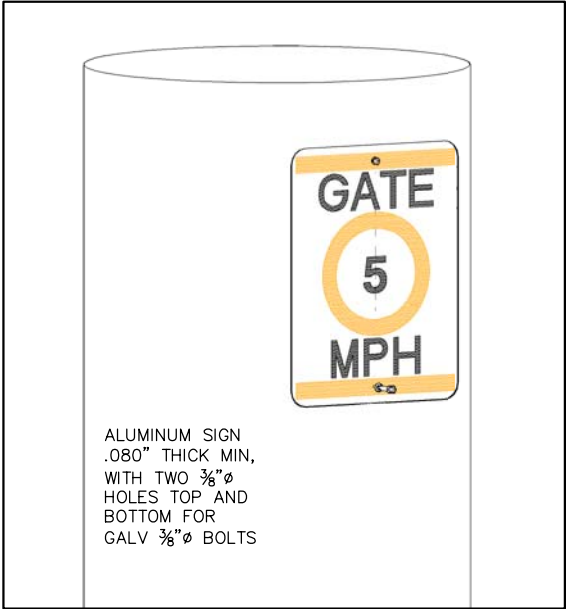
NOTE:

SEE DRAWING C76 FOR SIGN MOUNTING DETAILS.

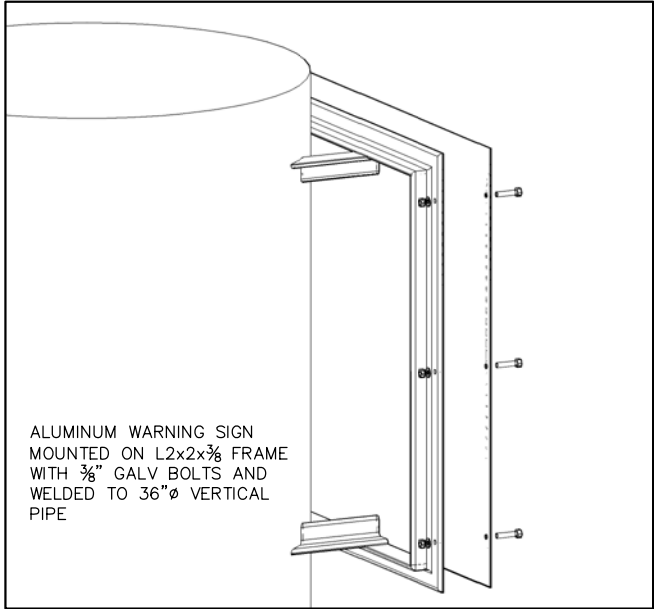
90% SUBMITTAL IF SHEET IS LESS THAN 22" x 34" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
			SHEET 58 OF 65				
					AIDS TO NAVIGATION DETAILS, SHEET 1		C75

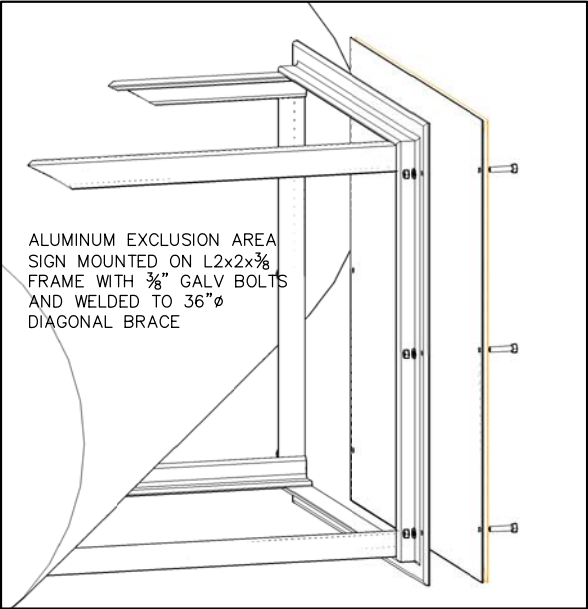
P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C76.DWG 12/8/2008 3:29 PM



1 DOLPHIN PILE SIGN
C75 SCALE: NONE

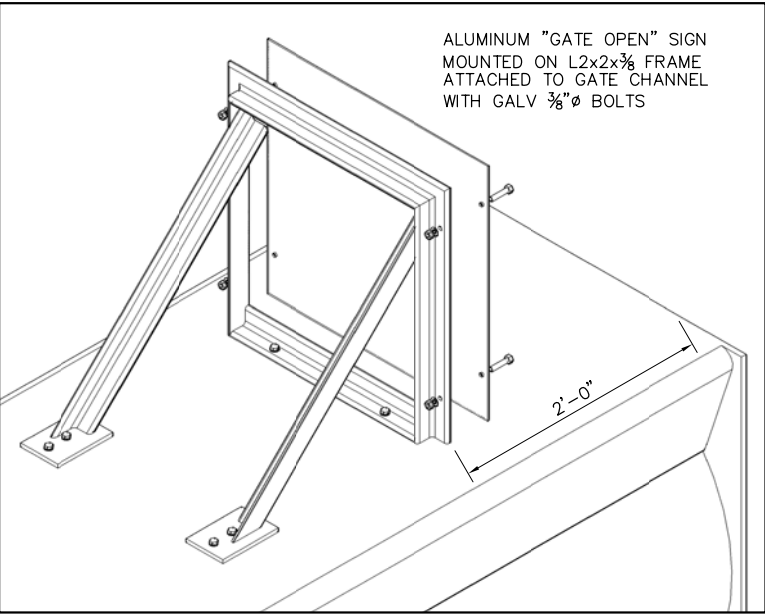


2 GATE WARNING SIGN 1
C75 SCALE: NONE

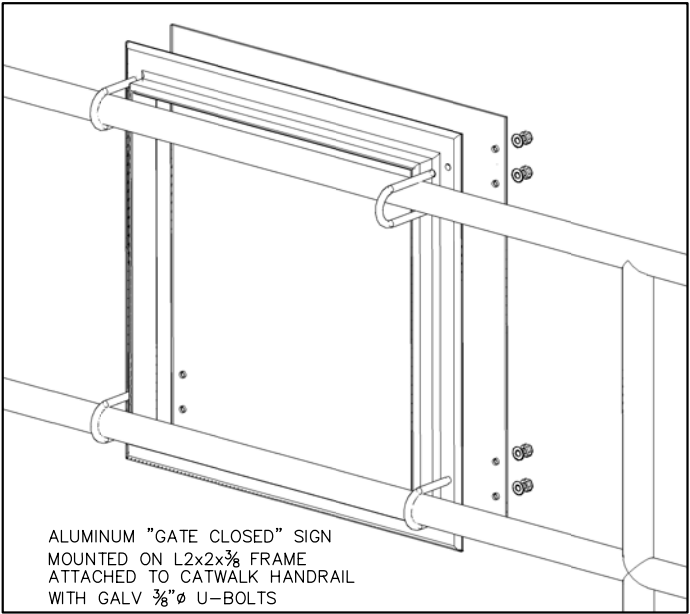


NOTE: EXCLUSION AREA SIGN SHOWN ON BRACE; SIGN ON OTHER SIDE OF GATE IS MOUNTED ON THE HANDRAIL SIMILAR TO DETAIL 5.

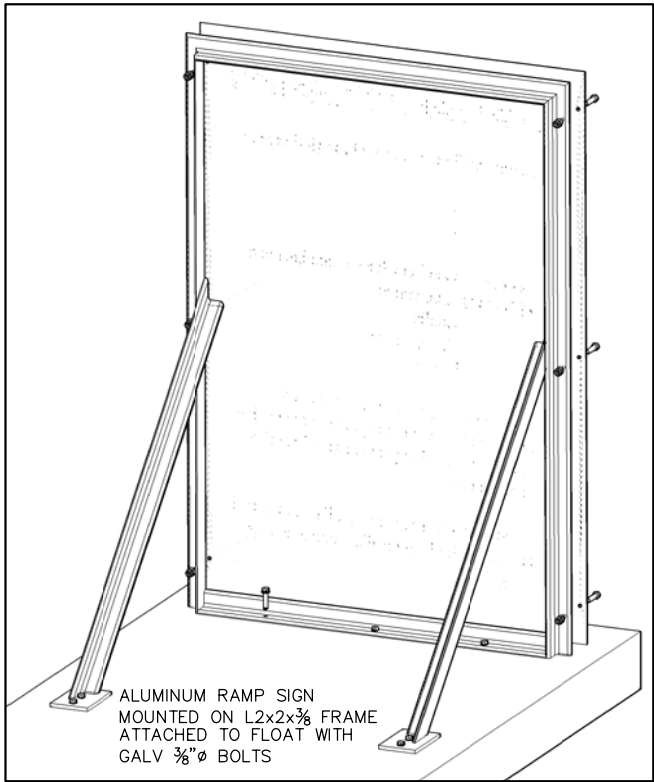
3 GATE WARNING SIGN 2
C75 SCALE: NONE



4 GATE OPEN SIGN
C75 SCALE: NONE



5 GATE CLOSED SIGN
C75 SCALE: NONE



6 BOAT RAMP DOCK SIGN
C75 SCALE: NONE

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE



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Walnut Creek, California 94596
(925) 944-5411

DSGN	TDB	DR	TAE	CHK	RBD
JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

TWO GATE FISH PROTECTION PLAN

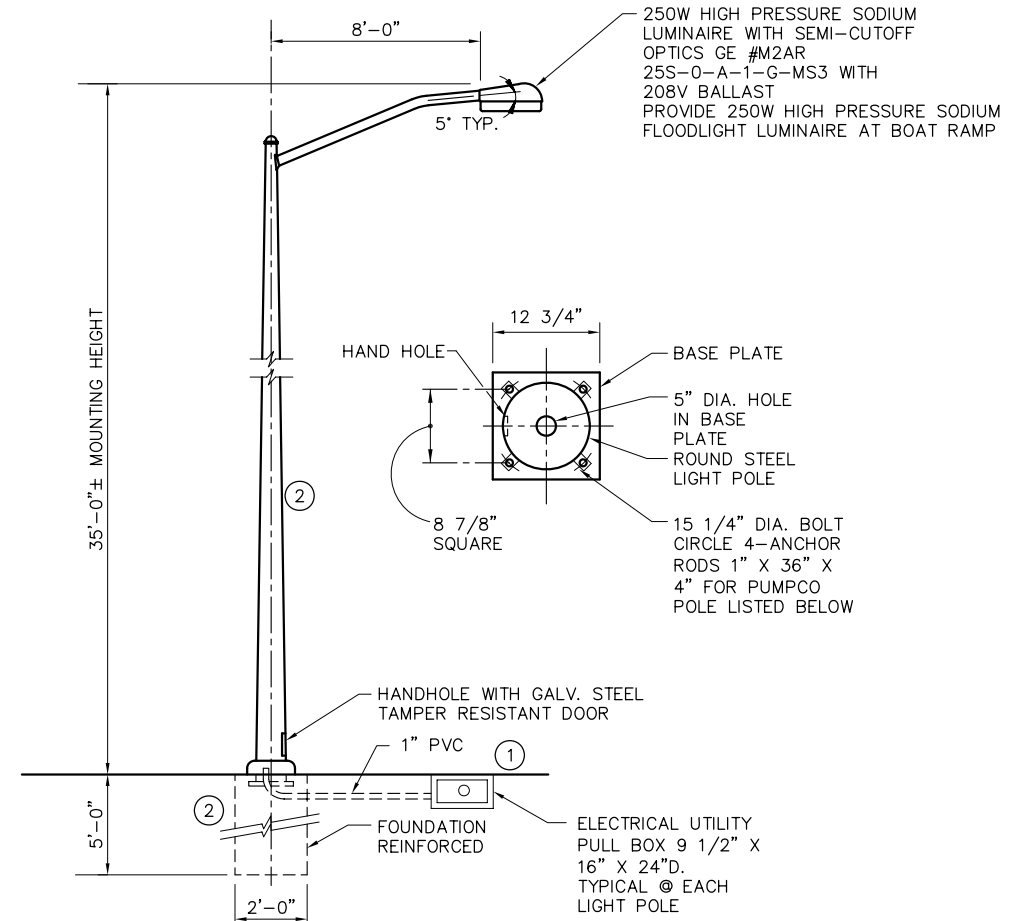
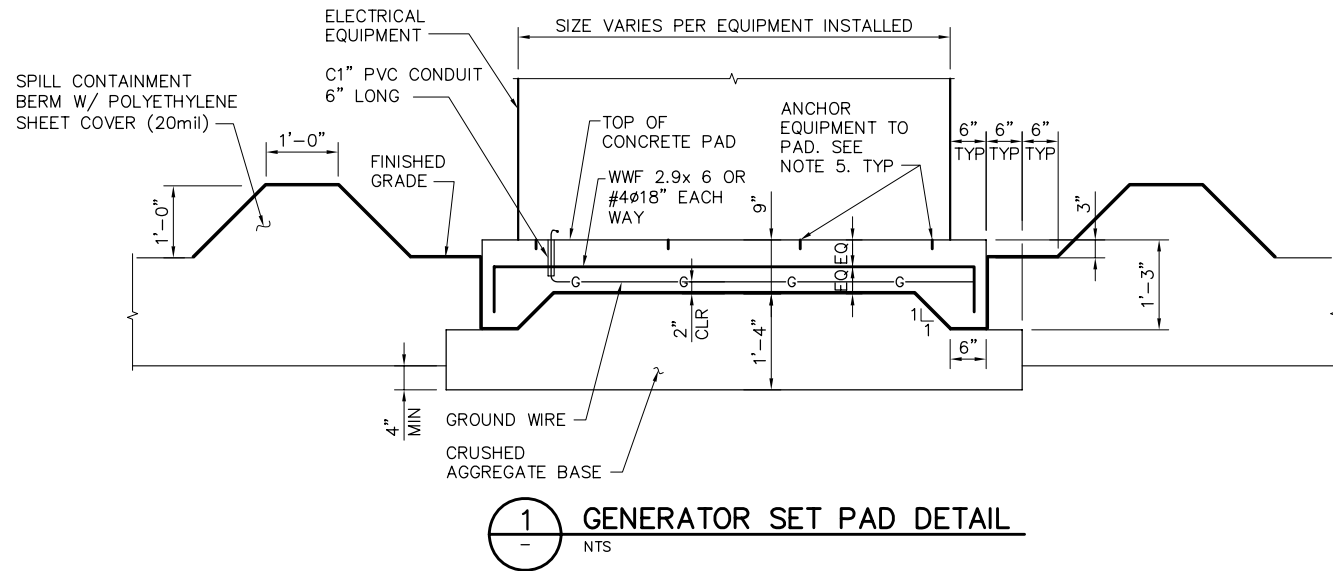
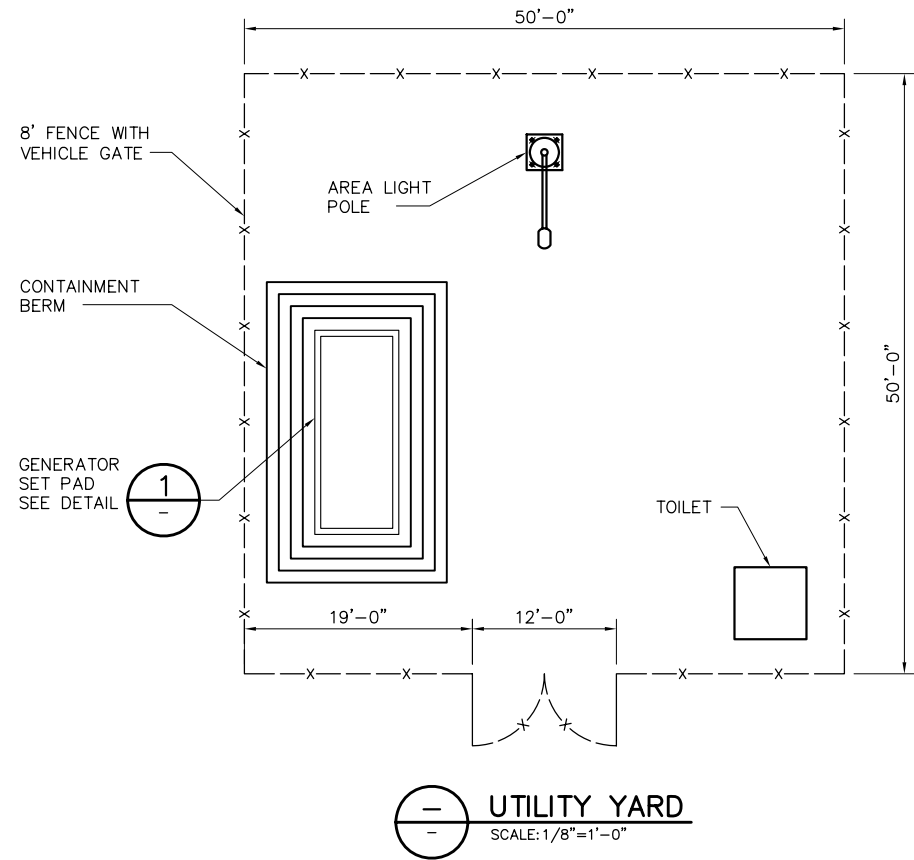
DATE 12/09/08

SHEET 59 OF 65

AIDS TO NAVIGATION
DETAILS, SHEET 2

C76

P:\6097-03 SWC GATE DESIGN\CADD\DWG\609703-C77.DWG 12/8/2008 11:44 AM



NOTES:

1. PUMPCO STEEL LIGHT POLE, SINGLE DAVIT
2. VERIFY BOLT CIRCLE & SPACING DIMENSIONS WITH MFG.

AREA LIGHT POLE

NTS

NOTES:

1. PROVIDE AND INSTALL MIN 20'-0"L, 1-#3/0 MIN. BARE COPPER UFER GROUND WIRE 2" ABOVE BOTTOM OF PAD. BOND TO ELECTRICAL EQUIPMENT.
2. CONCRETE SHALL BE CLASS 560-C-3250 WITH A MAXIMUM SLUMP OF 5", UNLESS OTHERWISE NOTED ON THE PLANS.
3. WELDED WORE FABRIC SHALL BE DEFORMED WIRE ASTM A496 OR 494, GRADE 60.
4. REINFORCING STEEL SHALL BE DEFORMED REBARS ASTM A615 OR ASTM A706, GRADE 60. PLACING OF REINFORCEMENT AND SPLICING LENGTH SHALL CONFORM TO ACI CODE 318-13.
5. ANCHOR EQUIPMENT TO CONCRETE PAD WITH ANCHORS PER EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. PROVIDE 6'-0" MIN. CLEAR WORKING SPACE AROUND EQUIPMENT.
7. STUB CONDUITS IN EQUIPMENT AT LOCATIONS PROVIDED BY EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATION WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

90% SUBMITTAL

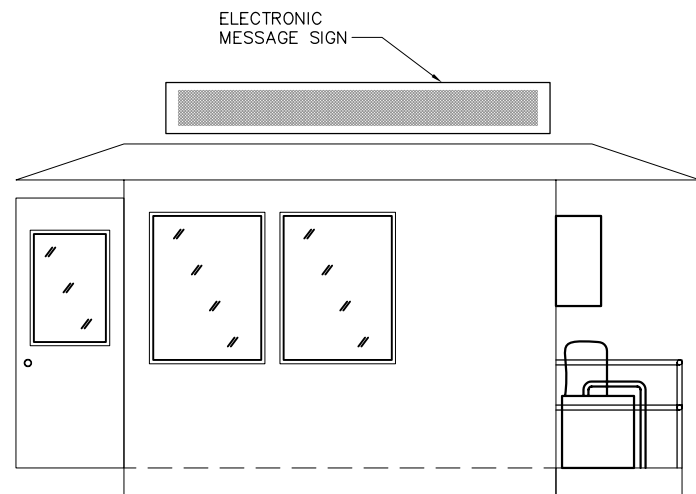
IF SHEET IS LESS THAN 22" x 34"
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REVISION	DESCRIPTION	BY	DATE

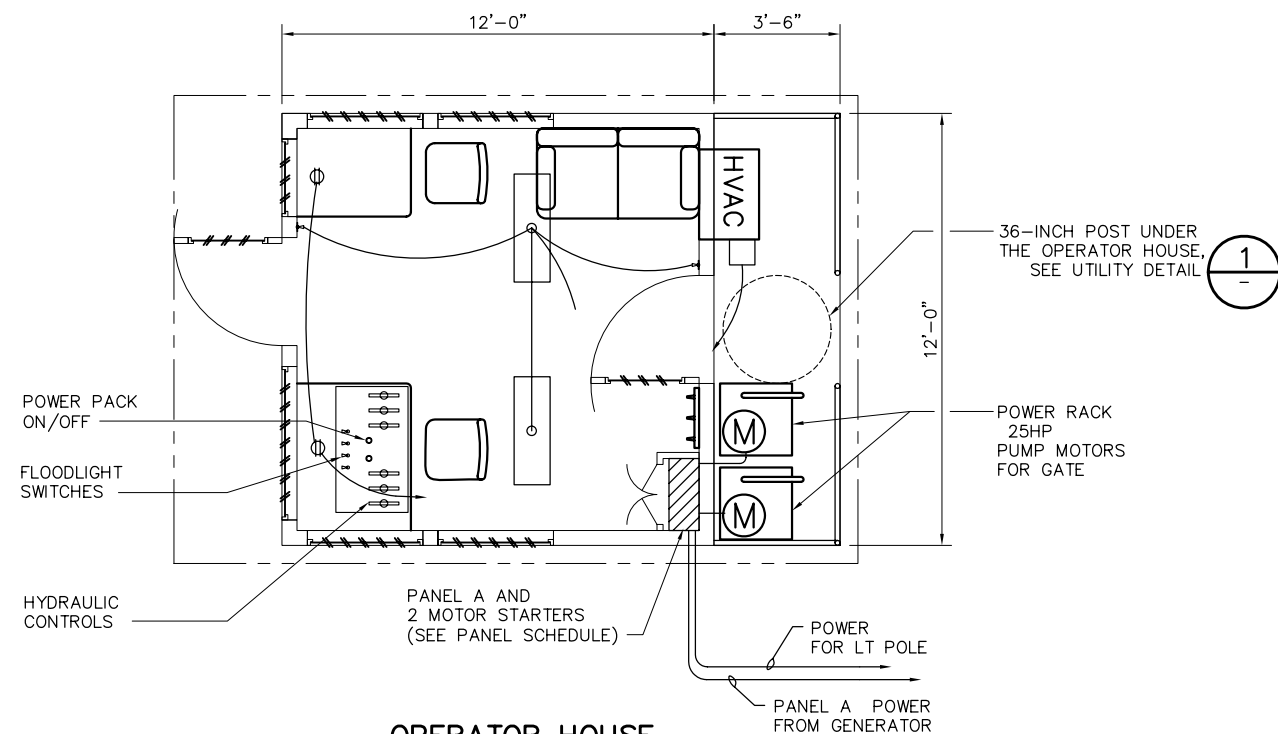
 Moffatt & Nichol			2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411		
DSGN	DM	DR	AB	CHK	CBS
JOB NO.	6097-03		SUBMITTED BY	RMR	

TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
UTILITY YARD DETAILS		SHEET 60 OF 65
		C77

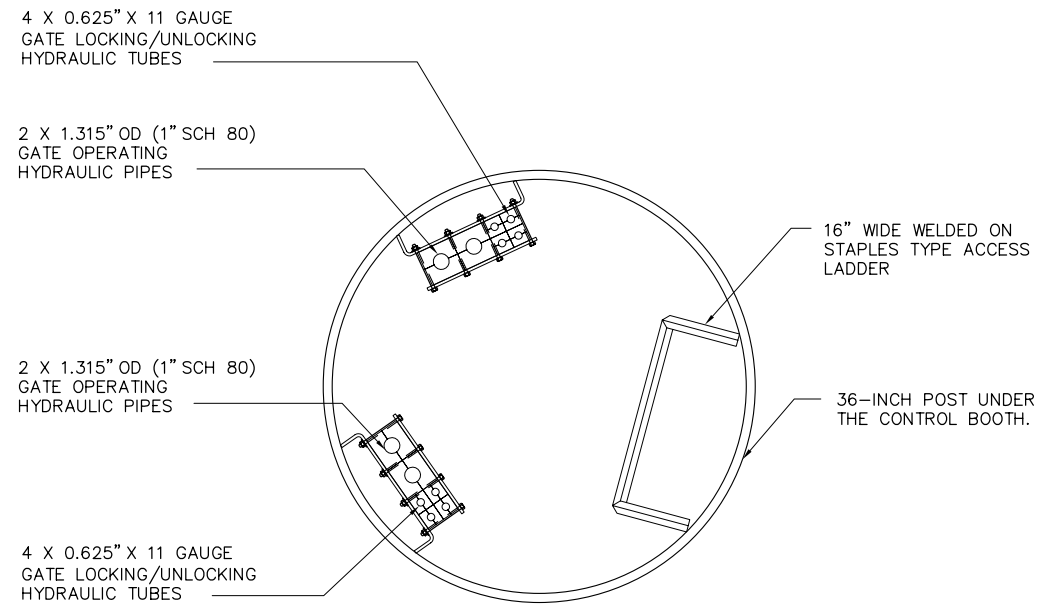
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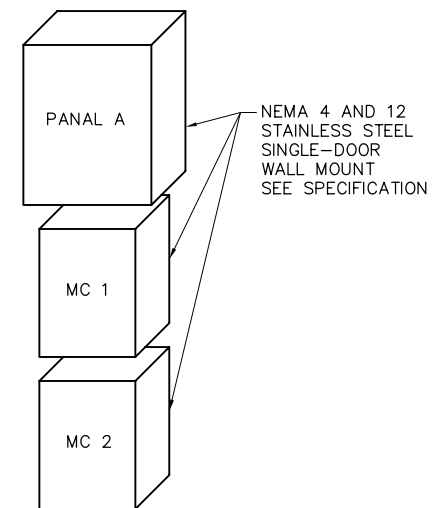
ELEVATION
SCALE: 3/8" = 1'-0"



**OPERATOR HOUSE
ELECTRICAL PLAN**
SCALE: 3/8" = 1'-0"



1 UTILITY DETAIL
SCALE: 1 1/2" = 1'-0"

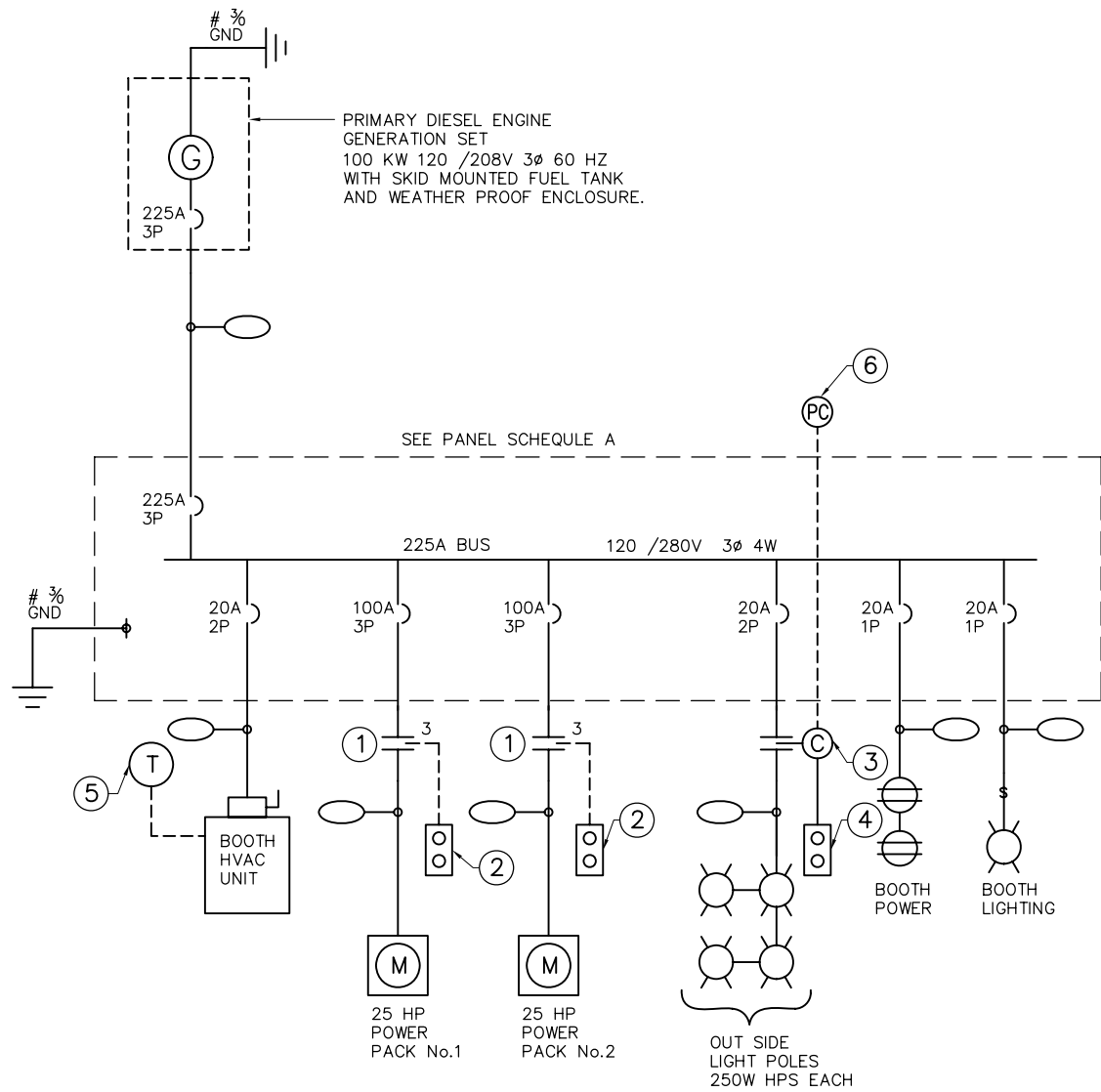


**ELECTRICAL CABINET
ARRANGEMENT**
NTS

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	Moffatt & Nichol 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411 DSGNCBS DRAB CHKTDB JOB NO. 6097-03 SUBMITTED BY RMR TITLE	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08
						SHEET 61 OF 65	
					OPERATOR HOUSE EQUIPMENT AND DETAILS	C78	



ONE LINE DIAGRAM
N.T.S.

NOTES:

- ① SIZE 3 MOTOR STARTER
- ② POWER PACK ON OFF CONTROL IN BOOTH
- ③ 30A LIGHTING CONTROL
- ④ FLOOD LIGHT CONTROL. HAND OFF AUTO IN BOOTH
- ⑤ THERMOSTAT CONTROL IN BOOTH
- ⑥ PHOTO CELL LOCATED ON TOP OF BOOTH.

PANEL: A

LOCATION : CONTROL BOOTH					VOLTAGE/PHASE : 208V/120V, 3Ø, 4W										FED FROM : GENERATOR					
					BUS AMPS : 225A										MINIMUM BUS BRACING : 10 KA					
MOUNTING : SURFACE					MAIN BREAKER : 225A 3P															
LOADS	SEE NOTE	OUTLETS			VOLT-AMPS				BKR/ POLE	BKR/ POLE			VOLT-AMPS			OUTLETS			SEE NOTE	LOADS
		LTG	REC	MISC	A	B	C	CKT		A	B	C	A	B	C	MISC	REC	LTG		
POWER PACK #1	1			1	9360			1	100/3	*-----	20/2	2	500					4	2	OUT SIDE LIGHTS
25 HP MOTOR						9360		3	.	----*----	.	4		500						
							9360	5	.	-----*	20/1	6			720		2			BOOTH RECEPT
POWER PACK #2	1			1	9360			7	100/3	*-----	20/1	8	200					2		BOOTH LIGHTS
25 HP MOTOR						9360		9	.	----*----		10								SPACE
							9360	11	.	-----*		12								SPACE
BOOTH				1	2000			13	30/2	*-----		14								SPACE
HVAC UNIT						2000		15	.	----*----		16								SPACE
SPARE								17	20/1	-----*		18								SPACE
SPARE								19	20/1	*-----		20								SPACE
SPARE								21	20/1	-----*		22								SPACE
SPARE								23	20/1	-----*		24								SPACE
TOTAL ØA = 21420 VOLT-AMPS TOTAL ØB = 21220 VOLT-AMPS TOTAL ØC = 19440 VOLT-AMPS LCL = 300 VOLT-AMPS TOTAL = 62380 VA @ 208V, 3Ø 173.3 AMPS NOTES: 1. CONTROLLED BY SIZE 3 MOTOR STARTER 2. CONTROLLED BY PHOTOCELL AND HAND-OFF-AUTO SWITCH																				

90% SUBMITTAL

IF SHEET IS LESS THAN 22" x 34"
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REVISION	DESCRIPTION	BY	DATE



2001 N. Main Street, Suite 360
Walnut Creek, California 94596
(925) 944-5411

DSGN	DM	DR	AB	CHK	CBS
JOB NO.	6097-03	SUBMITTED BY	RMR	TITLE	

TWO GATE FISH PROTECTION PLAN

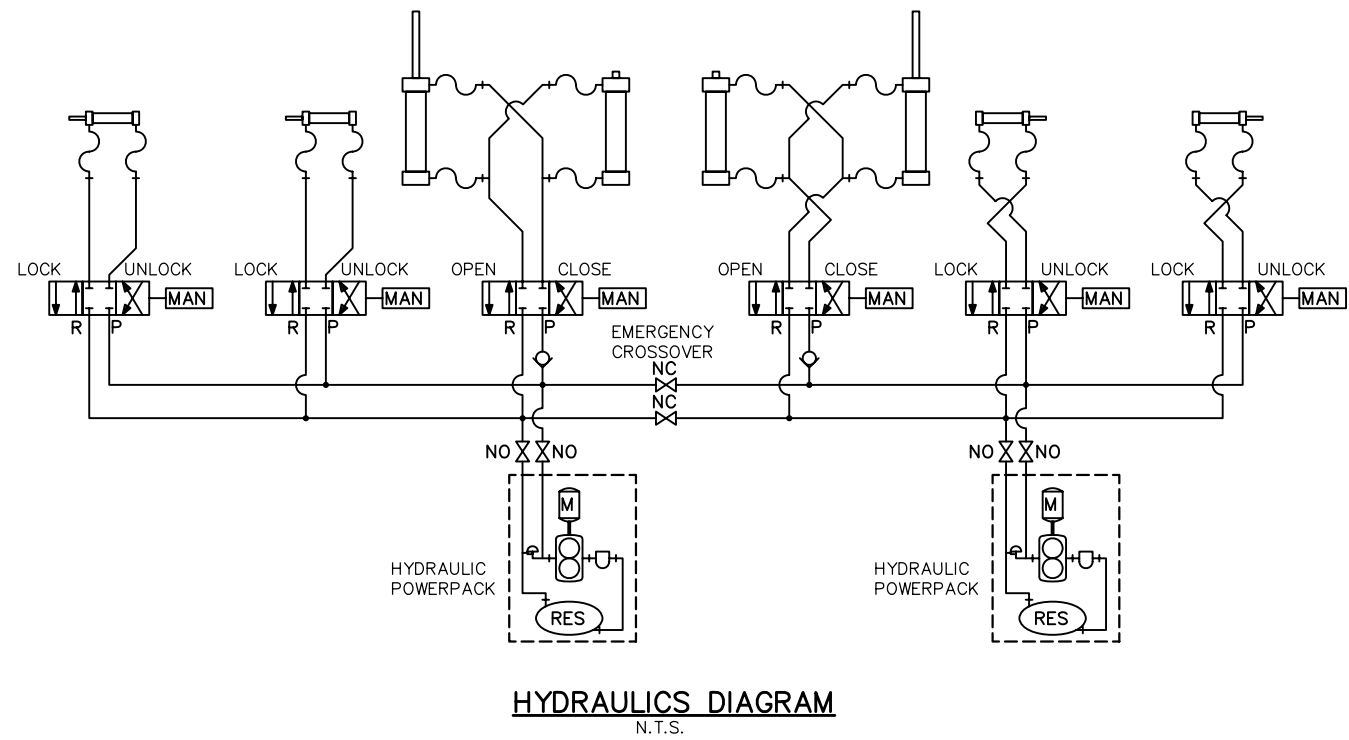
DATE 12/09/08

SHEET 62 OF 65

ELECTRICAL SYSTEM DIAGRAM

C79

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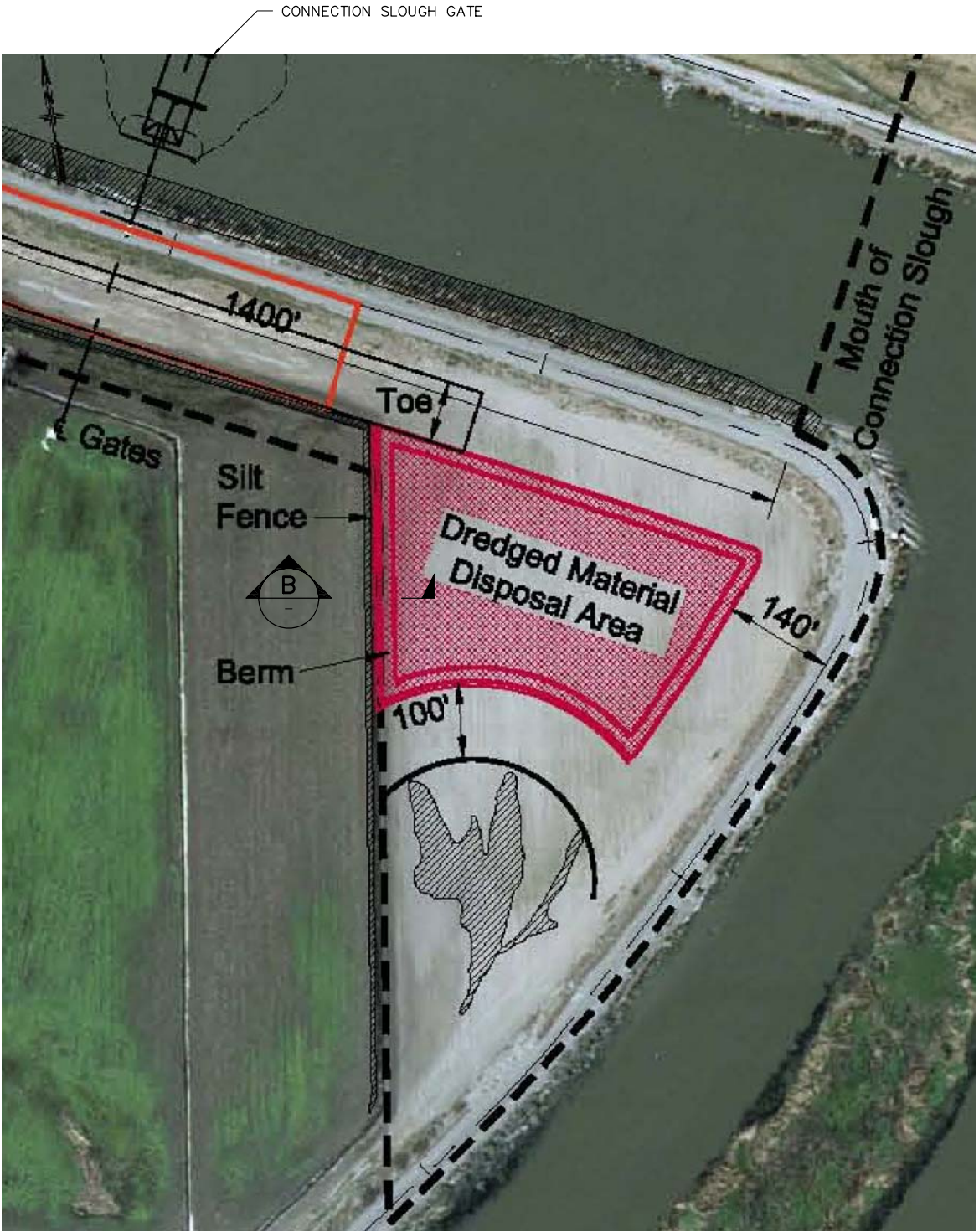


90% SUBMITTAL

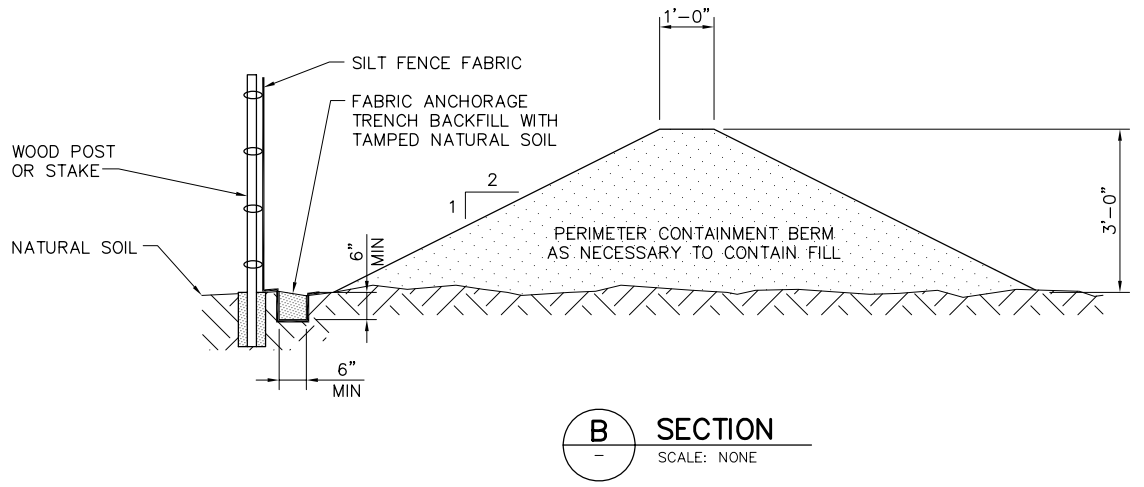
IF SHEET IS LESS THAN 22" x 34"
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SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08	
							SHEET 63 OF 65	
					HYDRAULICS SYSTEM DIAGRAM		C80	
DSGN CBS		DR AB						CHK TDB
JOB NO. 6097-03		SUBMITTED BY RMR						TITLE

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A SITE PLAN
SCALE: NONE



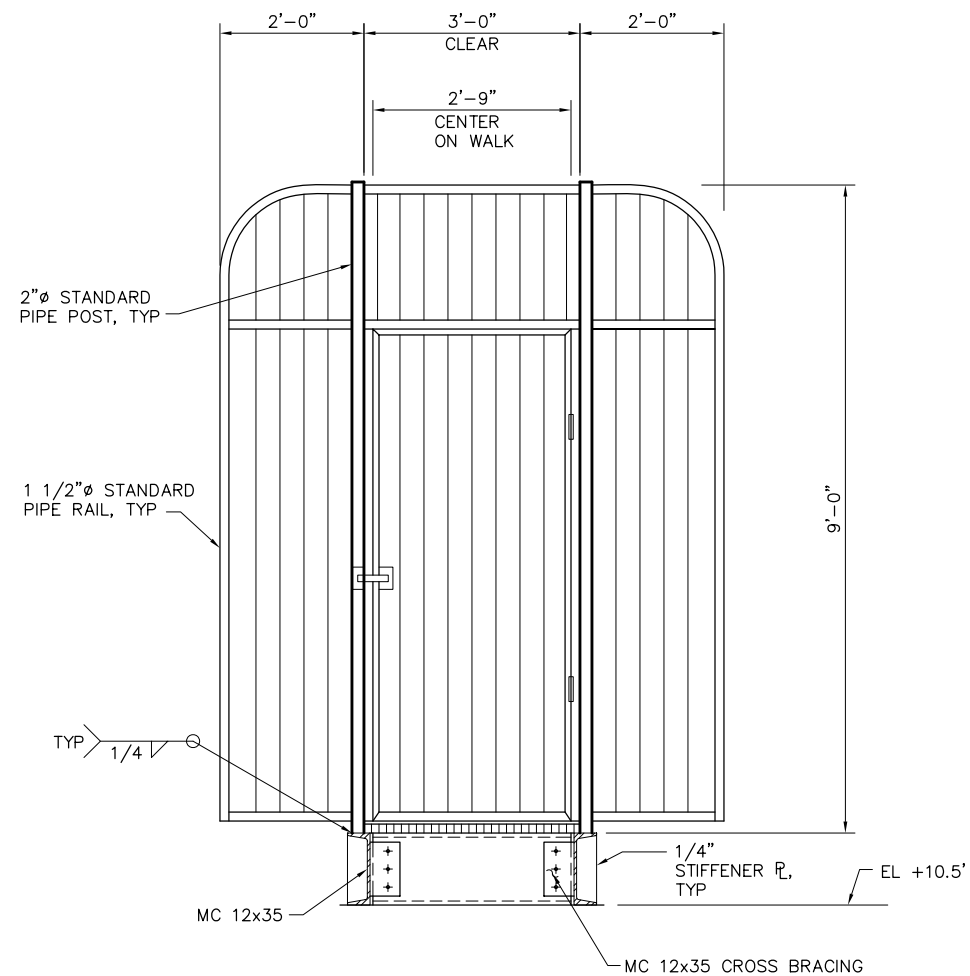
B SECTION
SCALE: NONE

NOTE:
NO DREDGE MATERIAL SHALL BE PLACED WITHIN 140'
OF THE LEVEE CENTERLINE.

90% SUBMITTAL IF SHEET IS LESS THAN 22" x 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY.

REVISION	DESCRIPTION	BY	DATE	 2001 N. Main Street, Suite 360 Walnut Creek, California 94596 (925) 944-5411 Moffatt & Nichol	TWO GATE FISH PROTECTION PLAN		DATE 12/09/08		
							SHEET 64 OF 65		
					DREDGED MATERIAL DISPOSAL SITE		C81		
DSGN		TDB		DR	TAE		CHK	GTH	
JOB NO.		6097-03		SUBMITTED BY		RMR		TITLE	

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NOTE:
SECURITY GATE SHALL PROVIDE
A MINIMUM 36" CLEAR OPENING,
SHALL BE AUTOMATICALLY
CLOSING, AND SHALL INCLUDE
A LOCKABLE LATCH.

SECURITY GATE ELEVATION



90% SUBMITTAL

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REVISION	DESCRIPTION	BY	DATE

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

TWO GATE FISH PROTECTION PLAN	DATE 12/09/08
	SHEET 65 OF 65
MISCELLANEOUS DETAILS	C82