

STATE OF CALIFORNIA
CALIFORNIA NATURAL RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF ENGINEERING

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CALIFORNIA NATURAL RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF ENGINEERING
STATE WATER FACILITIES

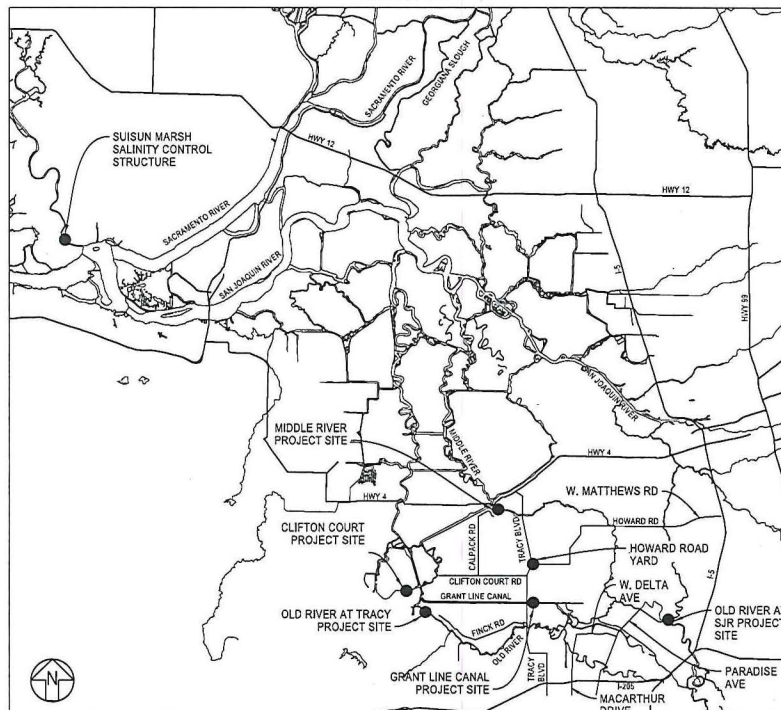


SOUTH DELTA FACILITIES

MIDDLE RIVER, OLD RIVER AND GRANT LINE CANAL
TEMPORARY ROCK BARRIERS - 2016, 2017 AND 2018

SPECIFICATION NO. 15-15

AREA MAP



LOCATION MAP

REV. DESCRIPTION SUB. APP.



**THINK SAFETY -
ACT SAFELY**

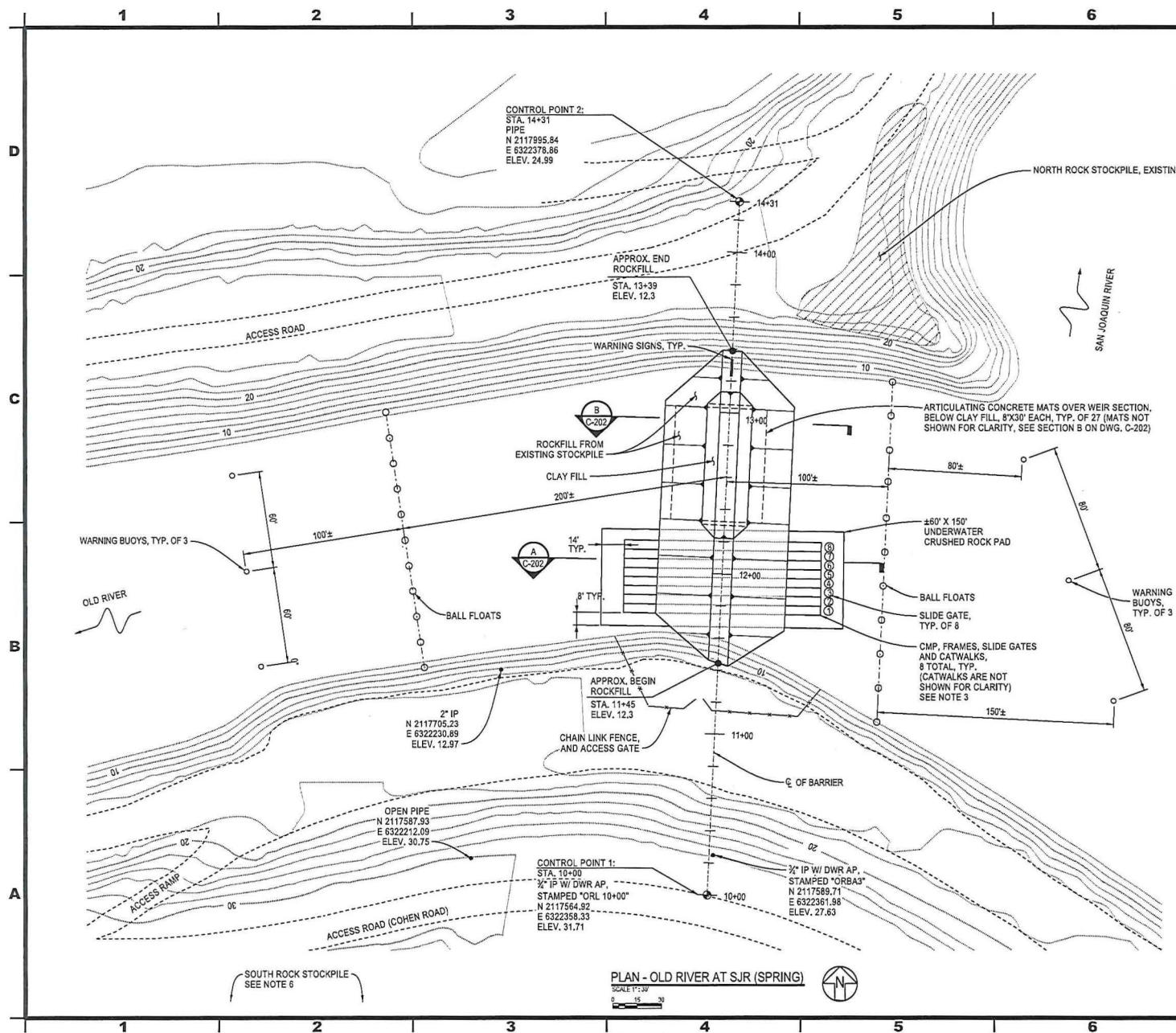
APPROVED: DATE:

CHEF, DIVISION OF ENGINEERING, REG. C.E. No. 52771

SPEC. NO.	SHEET NO.	REVISION	DRAWING NO.
15-15	001		G-101

VIA PRELIMINARY PLAN 1/10/2015

	1	2	3	4	5	6	7	8
D	LIST OF ABBREVIATIONS		LIST OF DRAWINGS					STATE OF CALIFORNIA CALIFORNIA NATURAL RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES DIVISION OF ENGINEERING STATE WATER FACILITIES
	AP _____ ANGLE POINT APPROX. _____ APPROXIMATELY C _____ CENTERLINE CLR _____ CLEAR CMP _____ CORRUGATED METAL PIPE DEPT. _____ DEPARTMENT DWR _____ DEPARTMENT OF WATER RESOURCES Ø _____ DIAMETER D/S _____ DOWN STREAM DWG. _____ DRAWING EA _____ EACH (E) _____ EXISTING ELEV. _____ ELEVATION FT _____ FEET HORIZ. _____ HORIZONTAL HWY _____ HIGHWAY IP _____ IRON POINT LF _____ LINEAR FEET M.H.H.W. _____ MEAN HIGHER HIGH WATER M.L.L.W. _____ MEAN LOWER LOW WATER (N) _____ NEW N/A _____ NOT APPLICABLE NAD _____ NORTH AMERICAN DATUM NAVD _____ NORTH AMERICAN VERTICAL DATUM O.D. _____ OUTSIDE DIAMETER LBS _____ POUNDS SJR _____ SAN JOAQUIN RIVER STA _____ STATION TYP. _____ TYPICAL U/S _____ UPSTREAM VERT. _____ VERTICAL WSE _____ WATER SURFACE ELEVATION		SHEET NO. DRAWING NO. DRAWING TITLE GENERAL 001 G-101 COVER SHEET AND LOCATION MAP 002 G-102 LIST OF ABBREVIATIONS AND LIST OF DRAWINGS 003 G-103 ACCESS PLAN 004 C-101 MIDDLE RIVER - PLAN PROFILE AND SECTIONS 005 C-102 MIDDLE RIVER (1.0' WEIR RAISE) - PLAN, PROFILE AND SECTION 006 C-201 OLD RIVER AT SJR (SPRING) - PLAN 007 C-202 OLD RIVER AT SJR (SPRING) - PROFILE, SECTIONS & DETAIL 008 C-301 OLD RIVER AT SJR (FALL) - PLAN 009 C-302 OLD RIVER AT SJR (FALL) - PROFILE AND SECTIONS 010 C-401 OLD RIVER AT TRACY - PLAN 011 C-402 OLD RIVER AT TRACY - PROFILE, SECTION & DETAILS 012 C-501 GRANT LINE CANAL - PLAN 013 C-502 GRANT LINE CANAL - PROFILE, SECTION AND DETAIL 014 C-601 SUISUN MARSH SALINITY CONTROL STRUCTURE - VICINITY MAP, PLAN AND SECTION					
C								REV. DESCRIPTION SUB. APP.
								
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								THINK SAFETY - ACT SAFELY
								DEPARTMENT OF WATER RESOURCES SOUTH DELTA FACILITIES
								TEMPORARY ROCK BARRIERS 2016, 2017 AND 2018
								LIST OF ABBREVIATIONS AND LIST OF DRAWINGS
	SPEC. NO. 15-15	SHEET NO. 002	REVISION	DRAWING NO. G-102				
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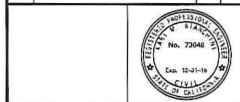
NOTES

- COORDINATES ARE IN FEET AND REFER TO STATE PLANE ZONE III, NAD83.
- ELEVATIONS ARE IN FEET AND REFER TO NAVD83.
- CONTRACTOR SHALL INSTALL DEPARTMENT FURNISHED STRUCTURES TO INCLUDE: CORRUGATED METAL PIPES (CMP), PIPE FRAMES, CATWALK ACCESS PLATFORMS, SLIDE GATES, CHAIN LINK FENCES, SIGNS, ARTICULATING CONCRETE MATS AND OTHER ACCESSORIES AS DIRECTED.
- CONTRACTOR SHALL EXCAVATE, TRANSPORT AND PLACE ROCKFILL FROM EXISTING STOCKPILES ON THE WORK SITE.
- IMPORT MATERIALS SUCH AS 3/4" CRUSHED ROCK, CLAY AND OTHER MATERIALS AS DIRECTED.
- SOUTH ROCK STOCKPILE APPROXIMATELY 1000 FT SOUTH OF BARRIER.
- SEE G-103 FOR ACCESS ROUTE.
- INSTALLED AND REMOVED IN THE SPRING AS DIRECTED.

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REV. DESCRIPTION SUB. APP.



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THINK SAFETY -

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DEPARTMENT OF WATER RESOURCES

SOUTH DELTA FACILITIES

TEMPORARY ROCK BARRIERS

2016, 2017 AND 2018

OLD RIVER AT SJR (SPRING)

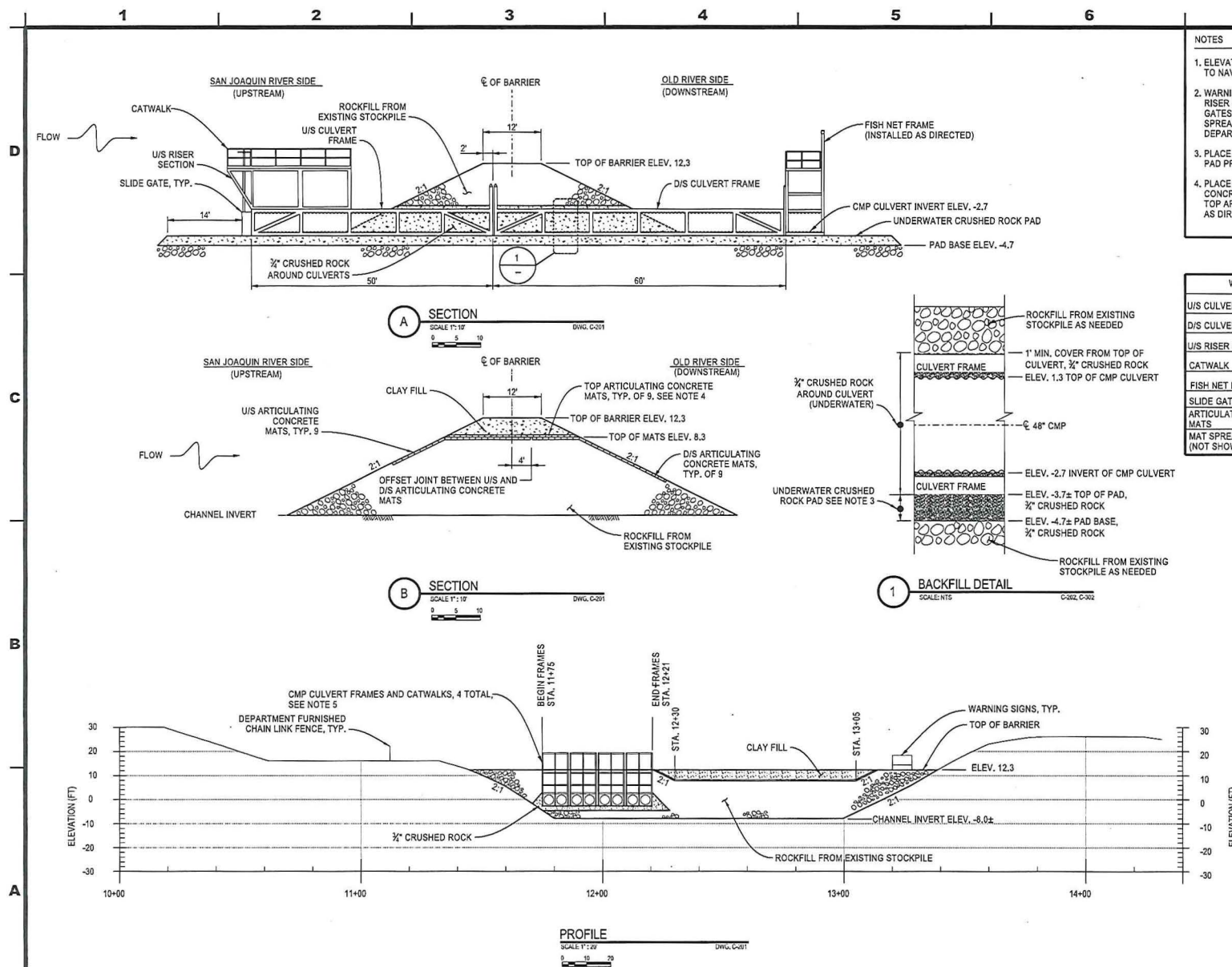
PLAN

SPEC. NO. SHEET NO. REVISION DRAWING NO.

15-15 006 C-201

VP: PLS: BRY: 2204: PEN

10/15/2015



NOTES

1. ELEVATIONS ARE IN FEET AND REFER TO NAVD88.
2. WARNING SIGNS, CULVERT FRAMES, RISER SECTION, CATWALK, SLIDE GATES, ARTICULATING MATS, SPREADER BAR, AND CMP ARE DEPARTMENT FURNISHED.
3. PLACE UNDERWATER CRUSHED ROCK PAD PRIOR TO PLACING FRAMES.
4. PLACE U/S AND D/S ARTICULATING CONCRETE MATS PRIOR TO PLACING TOP ARTICULATING CONCRETE MATS AS DIRECTED.

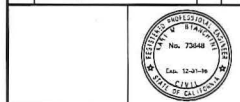
WEIGHT TABLE (LBS.)

U/S CULVERT FRAME	18,000 EA.
D/S CULVERT FRAME	20,000 EA.
U/S RISER SECTION	3,800 EA.
CATWALK	2,500 EA.
FISH NET FRAME	7,000 EA.
SLIDE GATE VALVE	900 EA.
ARTICULATING CONCRETE MATS	7,500 EA.
MAT SPREADER BAR (NOT SHOWN)	4,500

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ACT SAFELY

DEPARTMENT OF WATER RESOURCES

SOUTH DELTA FACILITIES

TEMPORARY ROCK BARRIERS

2016, 2017 AND 2018

OLD RIVER AT SJR (SPRING)

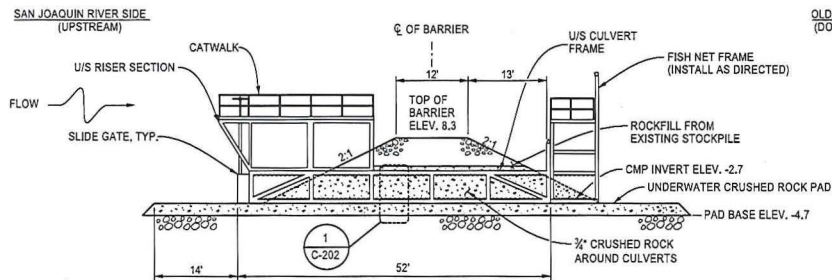
PROFILE, SECTIONS & DETAIL

SPEC. NO. SHEET NO. REVISION DRAWING NO.

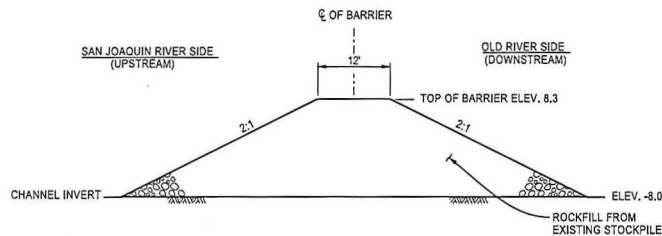
15-15 007 C-202

VIA REGISTRATION

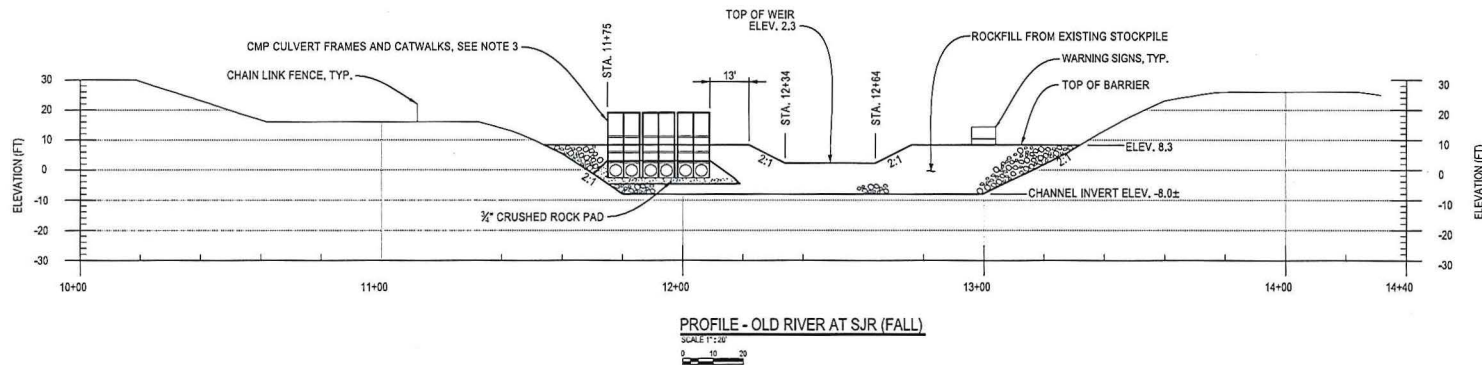
1/15/2015



A SECTION
SCALE 1" = 10'
DWG. C-301



B SECTION
SCALE 1" = 10'
DWG. C-301



PROFILE - OLD RIVER AT SJR (FALL)
SCALE 1" = 20'
DWG. C-301

NOTES

- ELEVATIONS ARE IN FEET AND REFER TO NAVD88.
- WARNING SIGNS, CULVERT FRAMES, RISER SECTION, CATWALK, SLIDEGATES, AND CMP ARE DEPARTMENT FURNISHED.

WEIGHT TABLE (LBS.)

U/S CULVERT FRAME	18,000 EA.
U/S RISER SECTION	3,800 EA.
CATWALK	2,500 EA.
FISH NET FRAME	7,000 EA.
SLIDE GATE VALVE	900 EA.

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REV. DESCRIPTION SUB. APP.



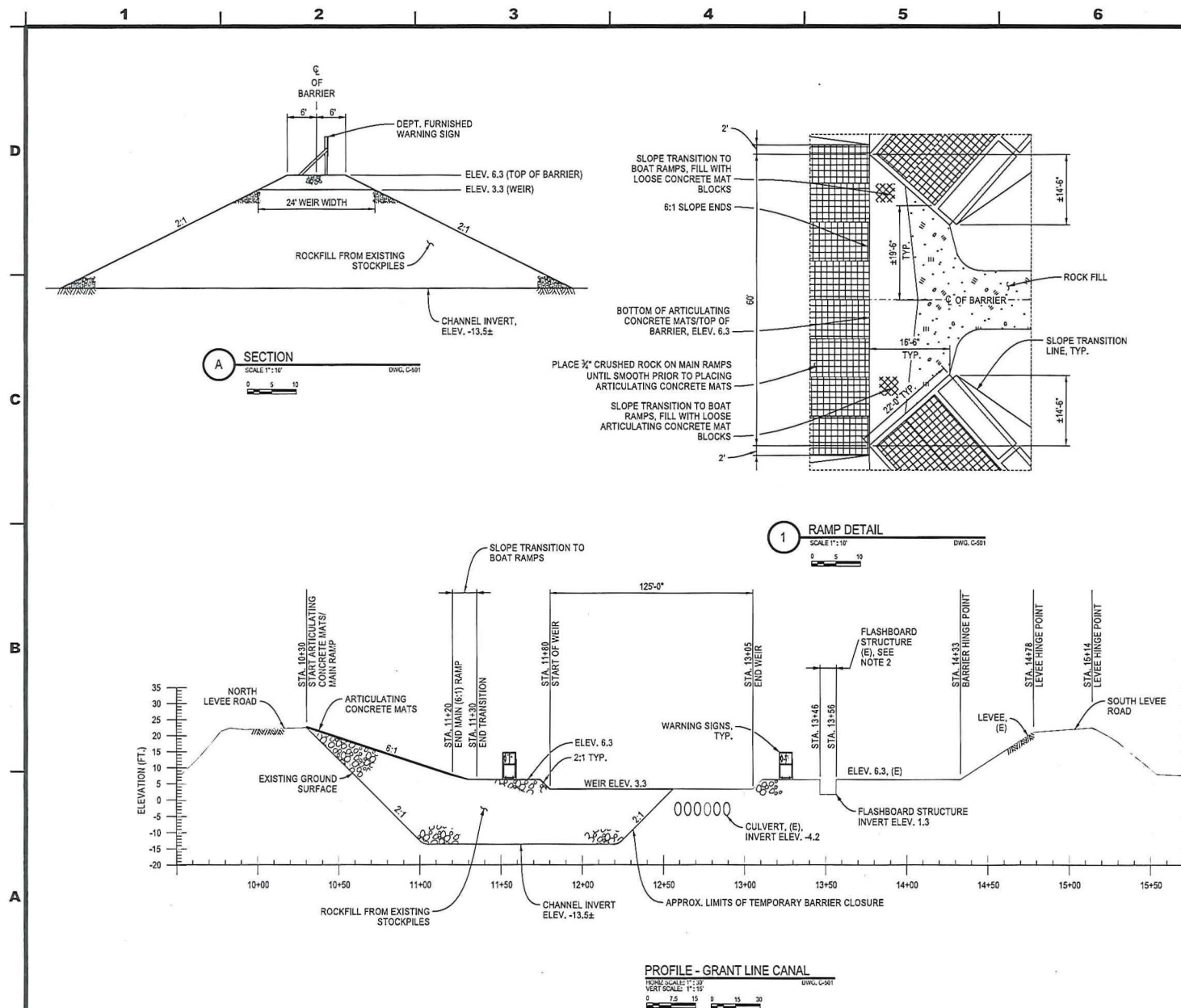
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DEPARTMENT OF WATER RESOURCES
SOUTH DELTA FACILITIES
TEMPORARY ROCK BARRIERS
2016, 2017 AND 2018

OLD RIVER AT SJR (FALL)
PROFILE AND SECTIONS

SPEC. NO. SHEET NO. REVISION DRAWING NO.
15-15 009 C-302

VIP PROJEN 2204PEN 11/22/2015



NOTES

1. ALL ELEVATIONS ARE IN FEET AND REFER TO NAVD88.
2. FALL NOTCH, REMOVE ONE FLASHBOARD EACH SIDE OF STRUCTURE AS DIRECTED.

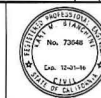
WEIGHT TABLE (LBS.)

ARTICULATING CONCRETE MATS	7,500 EA.
MAT SPREADER BAR (NOT SHOWN)	4,500
DOCK SECTIONS	2,000 EA.
DOCK ANCHORS	900 EA.

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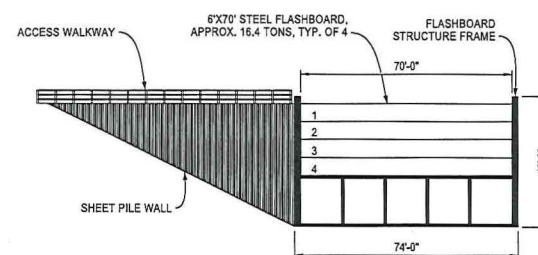
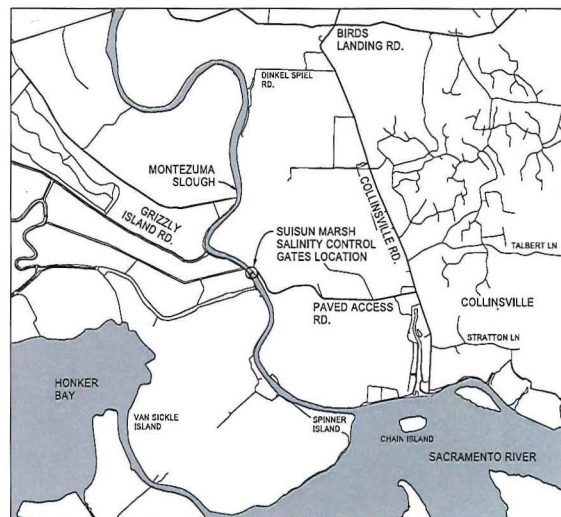
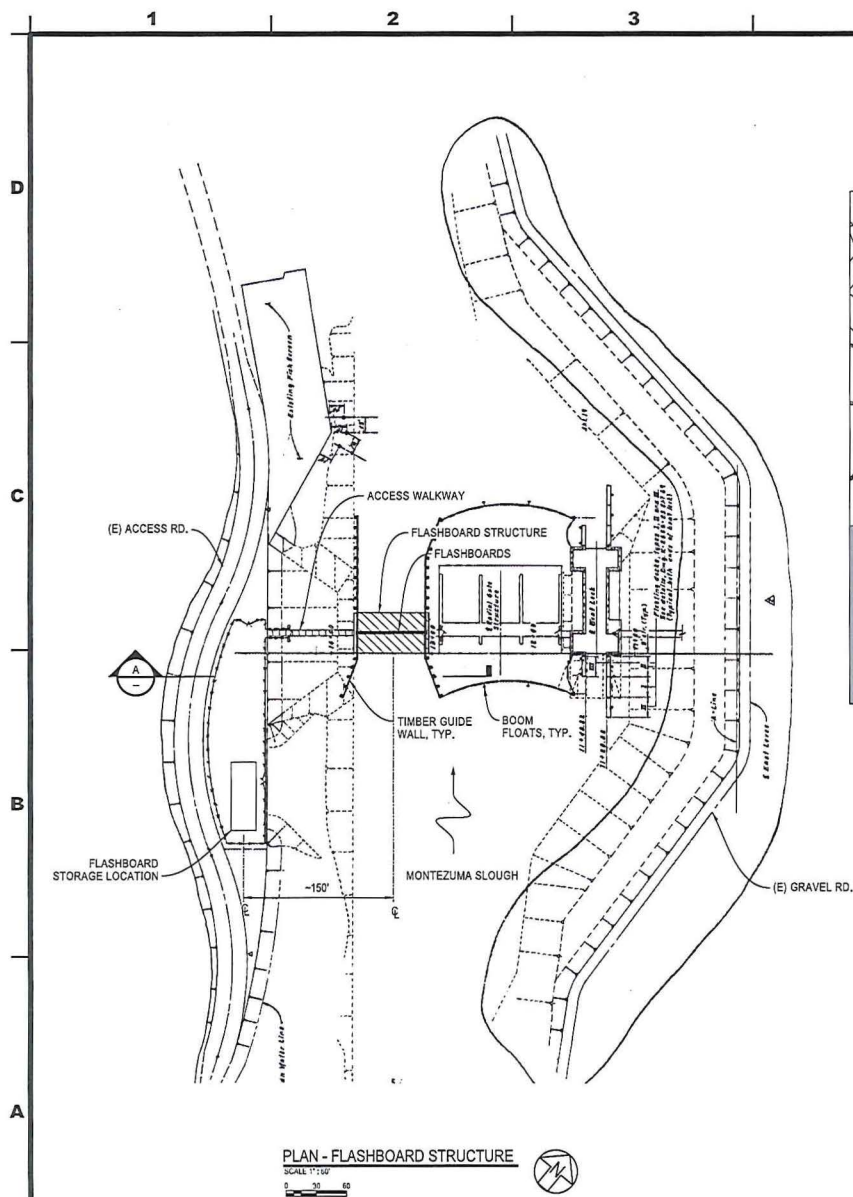
APPROVAL RECOMMENDED: DATE:
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SOUTH DELTA FACILITIES
TEMPORARY ROCK BARRIERS
2016, 2017 AND 2018

GRANT LINE CANAL
PROFILE, SECTION AND DETAIL

SPEC. NO. 15-15 SHEET NO. 013 REVISION C-502

1/16/2015



NOTES

1. CONTRACTOR TO INSTALL AND REMOVE FLASHBOARD(S) FROM STRUCTURE AND PLACE AT STORAGE LOCATION AS DIRECTED.
2. FLASHBOARDS TO BE INSTALLED/REMOVED USING A FLOATING BARGE CRANE.
3. DIVERS ARE REQUIRED TO CLEAN FLASHBOARD SLOT PRIOR TO INSTALLATION.
4. BARGE CRANE AND TUG SHALL NOT TIE OFF TO ANY PART OF THE SUISUN MARSH SALINITY CONTROL STRUCTURE; SPUDS OR ANCHORS ARE TO BE USED.

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SOUTH DELTA FACILITIES

TEMPORARY ROCK BARRIERS
2016, 2017 AND 2018

SUISUN MARSH SALINITY
CONTROL STRUCTURE

VICINITY MAP, PLAN
AND SECTION

SPEC. NO. 15-15 SHEET NO. 014 REVISION DRAWING NO. C-601

VP: PCLB/25204/PEN
10/10/2015