

**Meeting of the Central Valley Flood Protection Board
June 22, 2012**

Staff Report – Encroachment Permit

Javid T. And Amna J. Siddiqui

Irrigation system and appurtenances, Sacramento County

1.0 – ITEM

Consider approval of Permit No. 18747. (Attachment B with Exhibit(s) A)

2.0 – APPLICANT

Javid T. And Amna J. Siddiqui

3.0 – LOCATION

This project is located on the east, left bank levee of the Sacramento River at river mile 69.15 which is approximately 1.4 miles downstream of the I-5 Bridge crossing of the Sacramento River, Sacramento County. Additionally, the project is within Reclamation District 1000 in Unit No. 1 at Levee Mile 9.85. (See Attachment(s) A)

4.0 – DESCRIPTION

The project consists of removing and replacing an existing pump with support frames from the channel and waterward berm and removing and replacing an existing discharge pipe through the levee and on the landward levee toe. (See Attachment C)

5.0 – PROJECT ANALYSIS

Replacement of the discharge pipe is necessitated by SAFCA's Natomas Levee Improvement Project and the replacement of the pump is to provide a more economical water supply as the pump is outdated.

The replacement of the pump and discharge pipe will conform to Title 23 and will not have any effect on the flood control system.

5.1 – Hydraulic Analysis

This project replaces in-kind an existing encroachment which is listed in the Corps Operation & Maintenance Manual for this section of the Sacramento River Flood Control Project and therefore a hydraulic analysis is unwarranted.

5.2 – Geotechnical Analysis

The scope of work for this project does not require a geotechnical analysis.

6.0 – AGENCY COMMENTS AND ENDORSEMENTS

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- The U.S. Army Corps of Engineers 208.10 comment letter has not been received for this application. Staff anticipates receipt of a letter indicating that the USACE District Engineer has no objection to the project, subject to conditions. Upon receipt of the letter, staff will review said letter to ensure conformity with the permit language and incorporate it into the permit as Exhibit A.
- Reclamation District 1000 has endorsed this project, a copy of which is incorporated into the permit as Exhibit B.

7.0 – CEQA ANALYSIS

Board staff has prepared the following CEQA determination:

The Board has determined that the project is categorically exempt from CEQA under a Class 2 Categorical Exemption (CEQA Guidelines Section 15302) covering replacement or reconstruction of an existing facility.

8.0 – SECTION 8610.5 CONSIDERATIONS

1. Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the facilities authorized under this permit as regulated by Title 23 have been applied to the review of this application.

3. Effects of the decision on the entire State Plan of Flood Control:

None.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

There are no foreseeable detrimental effects to the adopted plan of flood control relative to the permitting of this project due to reasonable projected future events.

9.0 – STAFF RECOMMENDATION

Staff recommends that the Board adopt the CEQA findings and approve the permit, conditioned upon receipt of a U.S. Army Corps of Engineers comment letter indicating that the District Engineer has no objection to the project, subject to conditions, and direct staff to file a Notice of Determination with the State Clearinghouse.

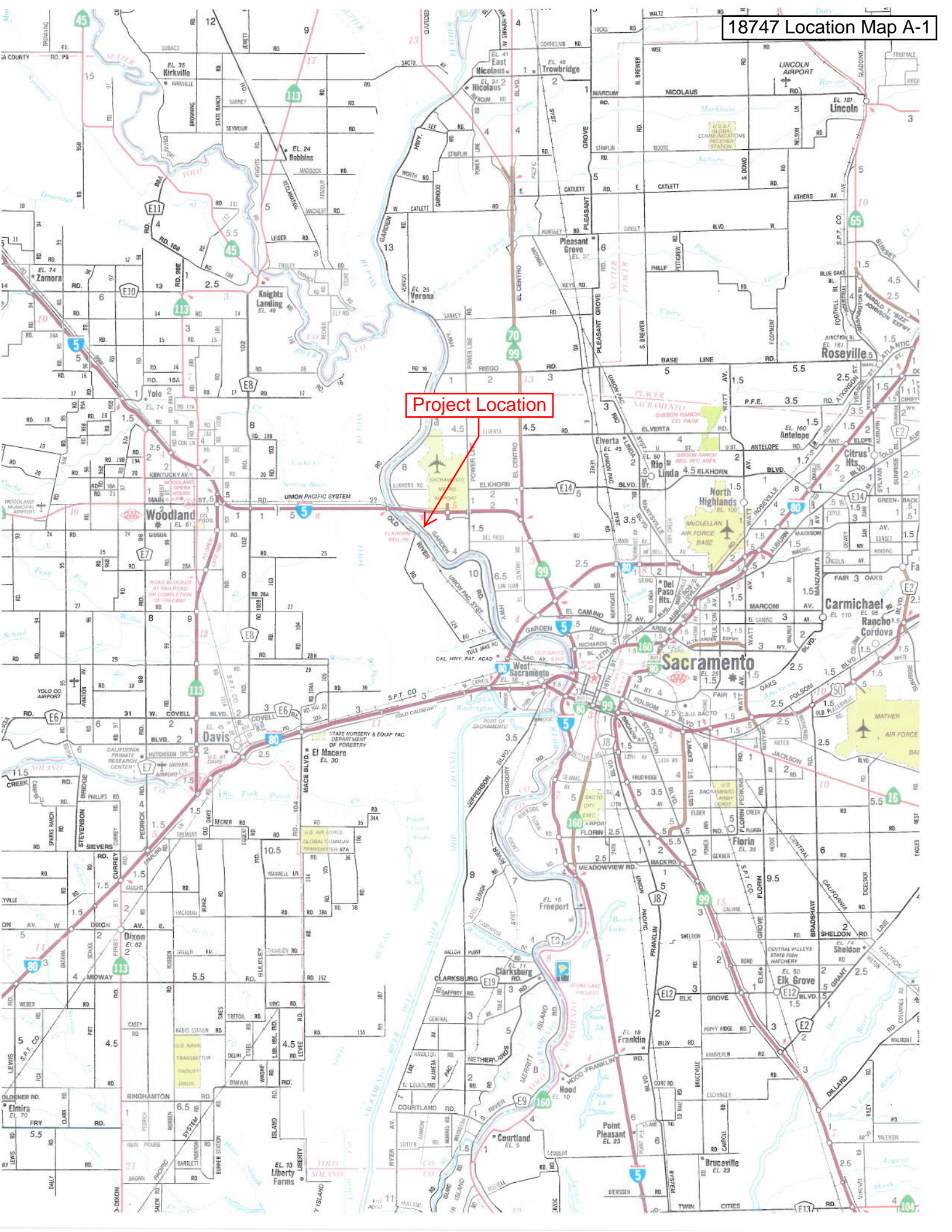
10.0 – LIST OF ATTACHMENTS

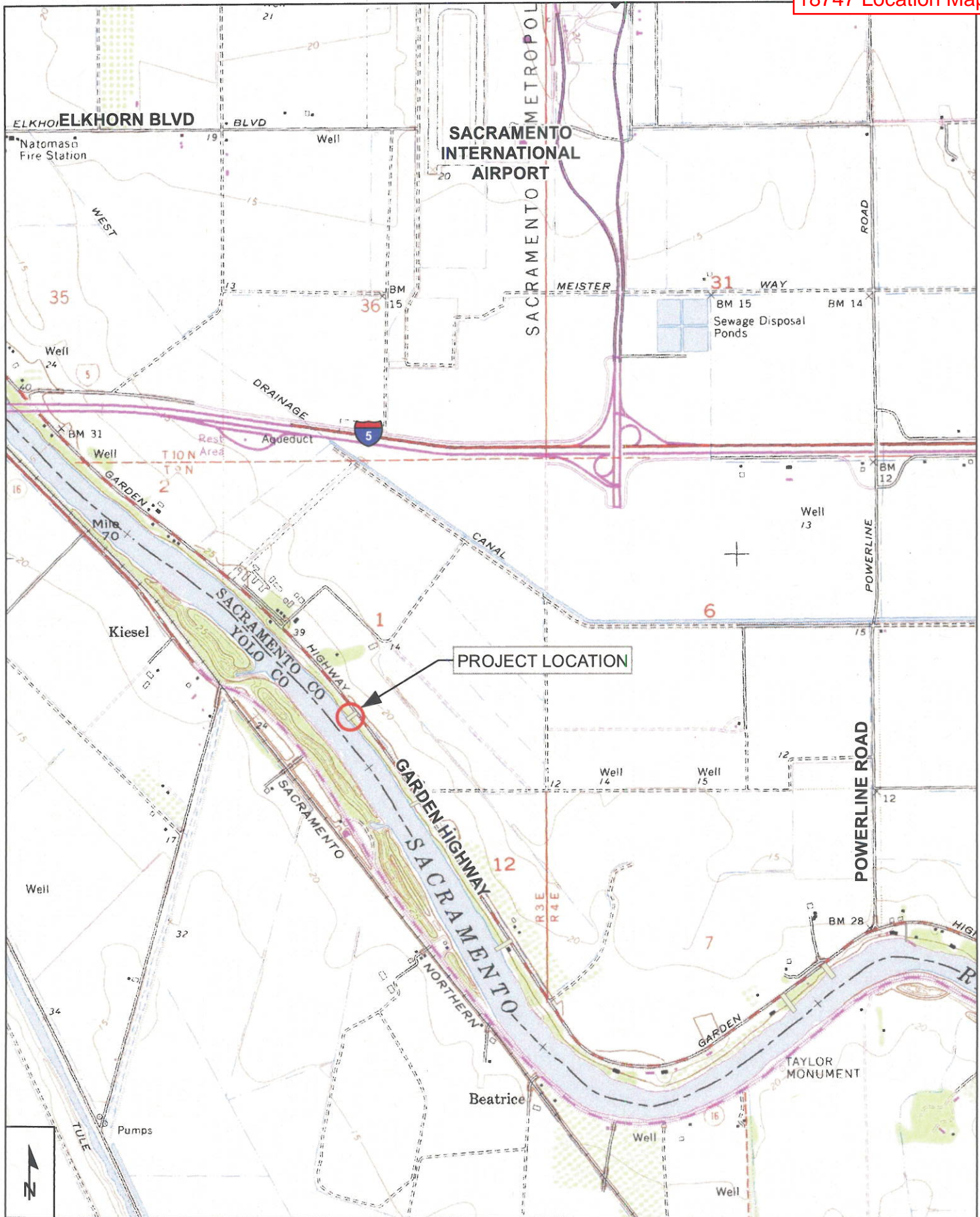
- A. Location Maps and Photos
- B. Draft Permit No. 18742 without Exhibit A, with Exhibit B
- C. Design Drawings

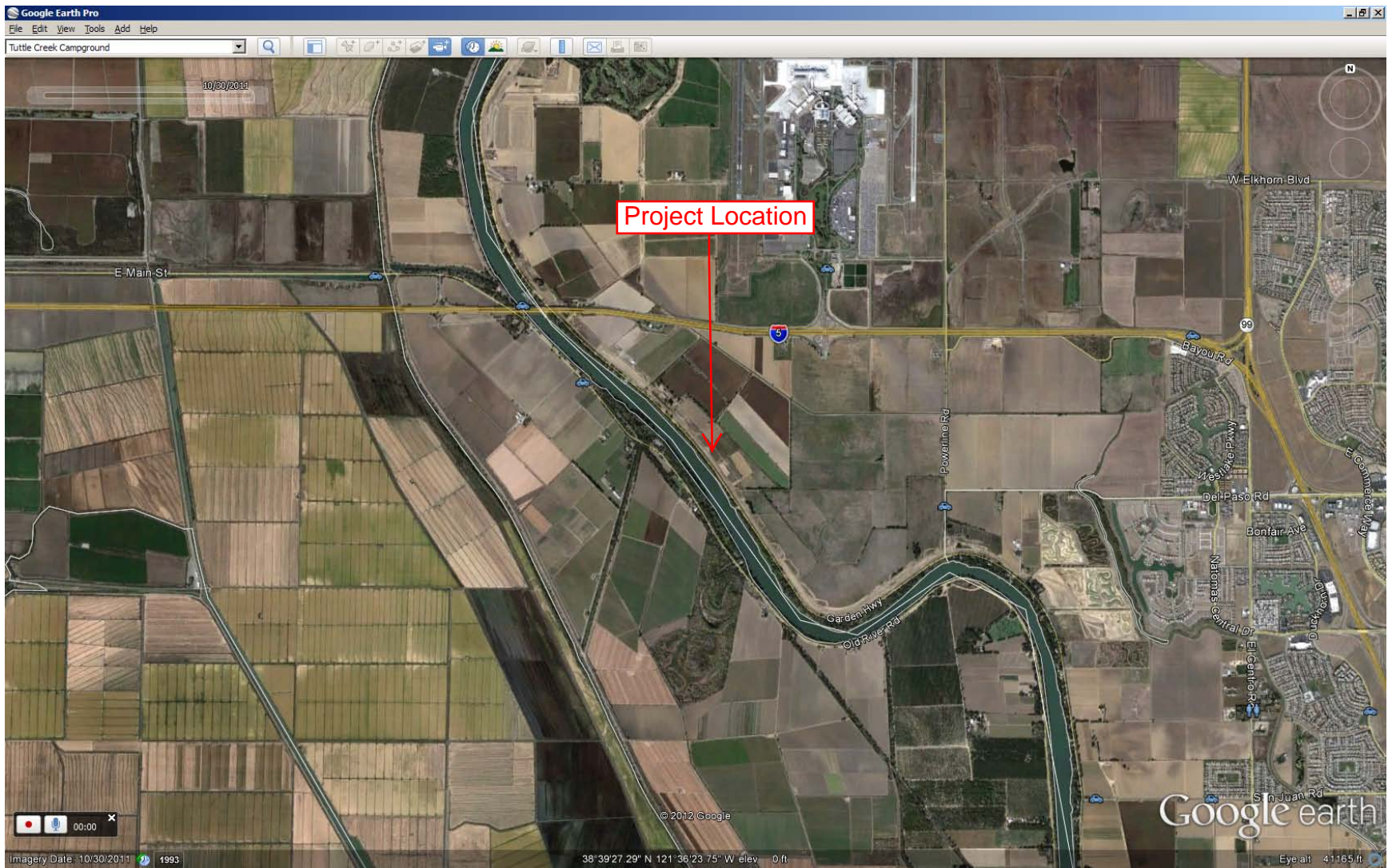
Design Review:	Sterling Sorenson
Environmental Review:	James Herota / Andrea Mauro
Document Review:	Gary W. Lemon P.E., Len Marino P.E.

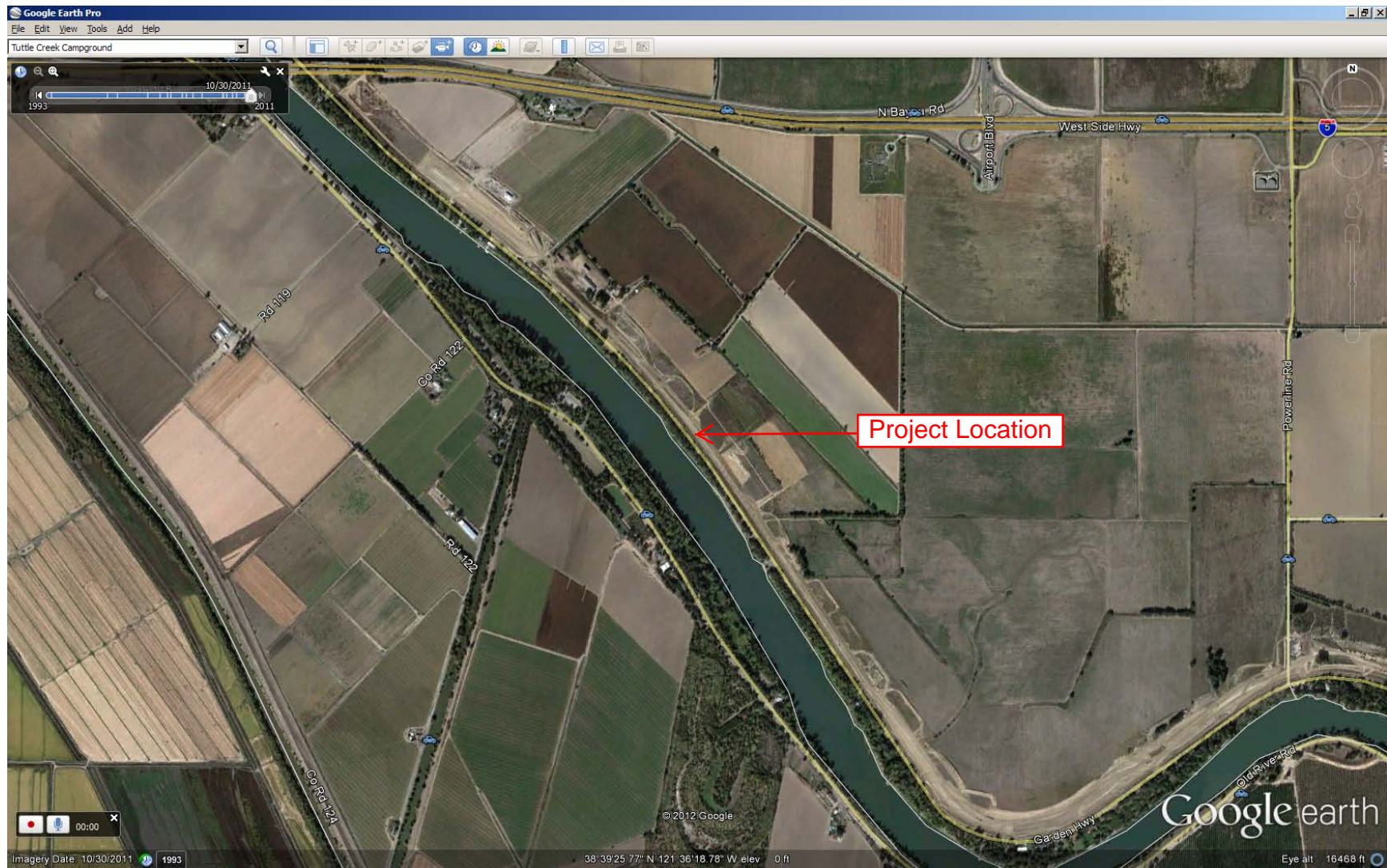
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18747 Location Map A-1











Photograph 1: Siddiqui River Pump existing pump house (River Mile 69.15)



Photograph 2: Sacramento River east levee looking north along waterside from Siddiqui River Pump.



Photograph 3: Looking west from top of new adjacent levee at Siddiqui River Pump.



Photograph 4: Looking east from top of new adjacent levee at Siddiqui River Pump.

DRAFT

STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE CENTRAL VALLEY FLOOD PROTECTION BOARD

PERMIT NO. 18747 BD

This Permit is issued to:

Javed T. and Amna J. Siddiqui
1808 J Street
Sacramento, California 95811

Construction of a private irrigation system including a river pump, pipe through the levee and appurtenant structures. The project is located in Sacramento County on the east bank of the Sacramento River on Garden Highway approximately 1.4 miles downstream of the Interstate 5 crossing at RM 69.2. (Section 1, T9N, R3E, MDB&M, Reclamation District 1000, Sacramento River, Sacramento County).

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

Dated: _____

Executive Officer

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 18747 BD

THIRTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior written approval of the Central Valley Flood Protection Board.

FOURTEEN: The permittee is responsible for all liability associated with construction, operation, and maintenance of the herein permitted encroachment and shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FIFTEEN: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Central Valley Flood Protection Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

SIXTEEN: The Central Valley Flood Protection Board and the California Department of Water Resources shall not be held liable for any damages to the herein permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

SEVENTEEN: The permittee shall contact the Department of Water Resources by telephone, (916)

574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

EIGHTEEN: No construction work of any kind shall be done during the flood season from November 1st to April 15th without prior written approval of the Central Valley Flood Protection Board.

NINETEEN: All cleared trees and brush shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1st to April 15th.

TWENTY: All debris generated by this project shall be properly disposed of outside the flood control project works.

TWENTY-ONE: In the event that erosion, injurious to the adopted plan of flood control, occurs at or adjacent to the herein permitted encroachment, the permittee shall repair the eroded area and propose measures, to be approved by the Central Valley Flood Protection Board, to prevent further erosion.

TWENTY-TWO: The permittee shall maintain the herein permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by any authorized representative of the Central Valley Flood Protection Board, the California Department of Water Resources and/or any other agency responsible for maintenance.

TWENTY-THREE: The herein permitted encroachment(s) shall not interfere with operation and maintenance of the flood control project works. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the project works to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted encroachment(s) under direction of the Central Valley Flood Protection Board or Department of Water Resources. If the permittee does not comply, the Central Valley Flood Protection Board may modify or remove the encroachment(s) at the permittee's expense.

TWENTY-FOUR: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

TWENTY-FIVE: The permittee shall comply with all conditions set forth in the U.S. Army Corps of Engineers 208.10 comment letter dated XXXX OO, 2012, which is attached to this permit as Exhibit A and is incorporated by reference.

TWENTY-SIX: The permittee shall comply with all conditions set forth in the letter from Reclamation District 1000 which is attached to this permit as Exhibit B and is incorporated by reference.

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RECLAMATION
DISTRICT 1000

Permit Conditions

Permit Application No. Unnumbered

Location: Sacramento River RM 69.2L (approx)

Applicant: Javed Siddiqui

Description: Private irrigation system including river pump, pipe through levee and appurtenant structures

CONDITIONS:

1. Maintenance of all encroaching structures, facilities, vegetation or any other items or matters approved under this permit shall remain the responsibility of the Permittee.
2. Permittee may be required, at the Permittee's sole cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted work if such removal, alteration, relocation or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if the encroaching facilities interferes with the District's ability to operate and maintain its flood control facilities or if the encroaching facilities are damaged by any cause.
3. Permittee(s) hereby agree(s) to indemnify and hold and save the District and its employees harmless from any damage, costs or liability, including all costs of defense, which may arise as result of the exercise of this Permit.
4. Permittee(s) agree(s) to replace or repair any District property used and/or damaged as a result of the exercise of this Permit
5. During construction, Permittee shall provide access for District personnel, vehicles and equipment at all times to allow for the District to conduct its operation and maintenance responsibilities.
6. Permittee shall obtain all necessary permits and regulatory approvals for the proposed work
7. Permittee shall notify the District one week in advance of the start of construction.

8. Permittee shall replace all existing pipe through Garden Highway and waterward to the proposed pump including pipe through existing pump house all to the satisfaction of the District and CVFPB.
9. Permittee shall remain responsible for any damages to the flood control system caused by the permitted encroachment including, but not limited to, settlement, erosion or other damages. Any such damage shall be repaired prior to the next flood season to the satisfaction of the District.
10. Permittee is responsible for maintaining the integrity of the pipe through the levee and shall demonstrate the pipe's integrity to the satisfaction of the District, Central Valley Flood Protection Board (CVFPB) and Corps of Engineer's. This shall require periodic inspections and/or testing of the pipe as required by the District, CVFPB and Corps of Engineers. Costs of all such inspections and/or testing shall be the responsible of the Permittee.
11. Permittee shall replace any pipe section which is damaged or otherwise deemed unacceptable as reasonably determined by the District, CVFPB and Corps of Engineers prior to its continued use.

Resolution No. 2010-02

WHEREAS, Reclamation District No. 1000 (District) operates and maintains levees under the authority of the California Central Valley Flood Protection Board (CCVFPB) and the California Water Code; and

WHEREAS, the CCVFPB and Title 23 of the California Water Code require any encroachment on or adjacent to the levee or within the designated floodway have an encroachment permit be issued by the CCVFPB with appropriate conditions to insure they do not impede or impair the operations and maintenance of the flood control system; and

WHEREAS, such permit applications are reviewed and endorsed by the local maintaining agency responsible for the operations and maintenance of the levee system where the encroachment is proposed and allows for conditions to be included in the permits to address issues including, but not limited to, operations, maintenance, public safety and flood emergency response; and

WHEREAS, endorsement of the permit applications for levees surrounding the Natomas basin are the purview of the District and various actions through the years by past District Boards have granted authority to the General Manager to endorse permit applications; and

WHEREAS, the Board desires to enumerate a clear policy on how future permit applications are to be reviewed and endorsed by the District

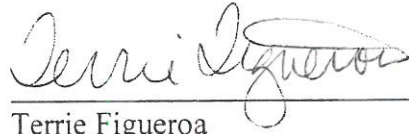
NOW, THEREFORE BE IT RESOLVED:

The Reclamation District No. 1000 Board of Trustees desires to delegate their authority to endorse encroachment permit applications to the District General Manager for routine encroachments and those which do not involve District policy issues. A determination as to which permits will be endorsed by the General Manager shall be left to his or her judgment, provided however, that all such endorsements shall be presented to the Board of Trustees at the next scheduled Board meeting.

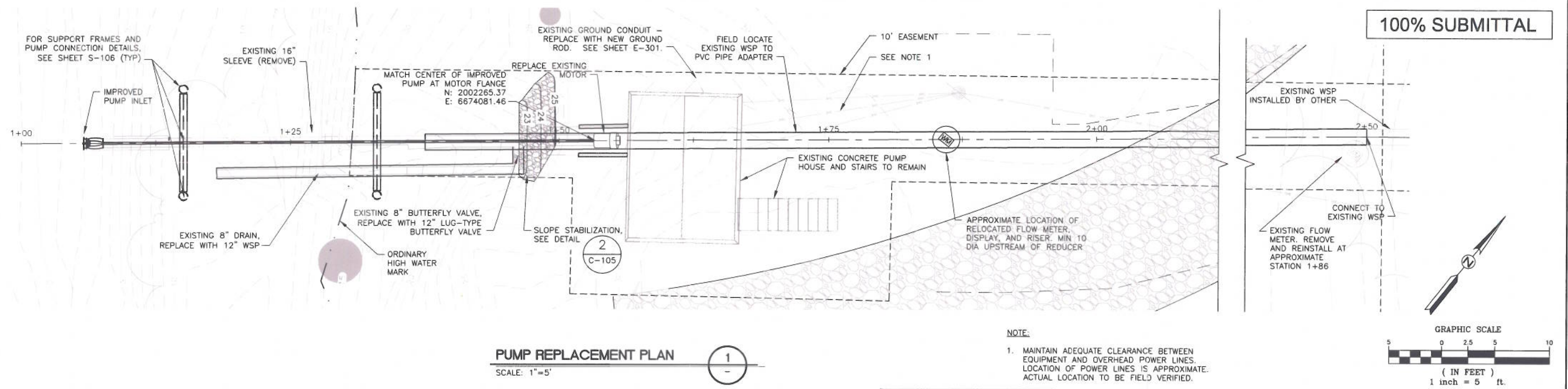
Those permit applications which are not routine in nature, present policy issues or are likely to be controversial shall be brought to the Board for consideration and action at which time the Board may delegate signature authority to the General Manager if approved. This will include all permit applications where the General Manager is recommending denial to the California Central Valley Flood Protection Board.

CERTIFICATION

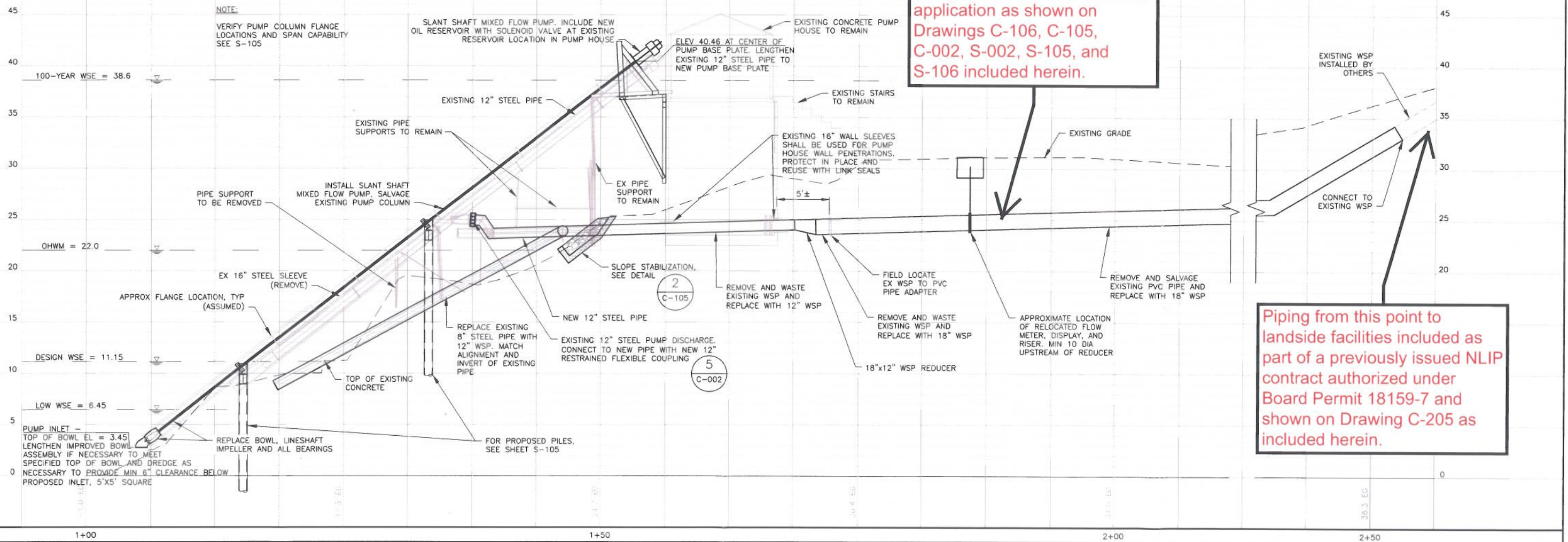
I, Terrie Figueroa, Secretary of Reclamation District No, 1000, hereby certify that the foregoing Resolution 2010-02 was duly adopted by the Board of Trustees of Reclamation District No, 1000 at a regular meeting held January 8, 2010 and made a part of the minutes thereof.

A handwritten signature in cursive script, reading "Terrie Figueroa", written over a horizontal line.

Terrie Figueroa
District Secretary



PUMP REPLACEMENT PLAN
SCALE: 1"=5'
1



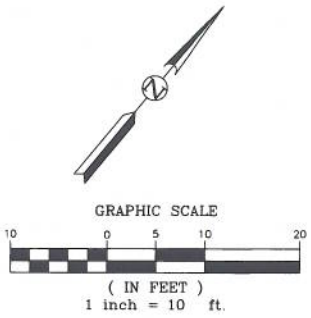
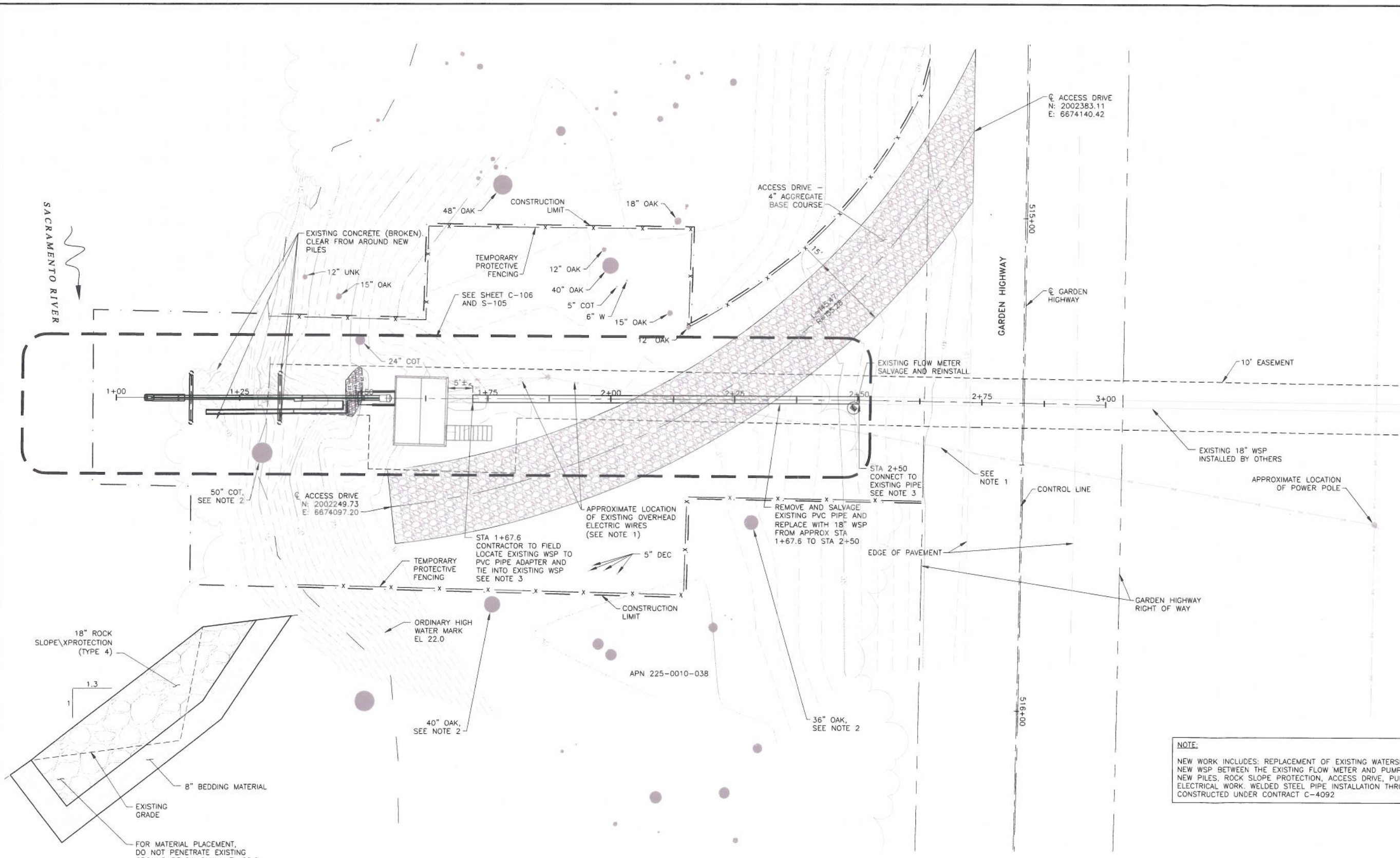
River pump work and proposed piping is new under this permit application as shown on Drawings C-106, C-105, C-002, S-002, S-105, and S-106 included herein.

Piping from this point to landside facilities included as part of a previously issued NLIP contract authorized under Board Permit 18159-7 and shown on Drawing C-205 as included herein.

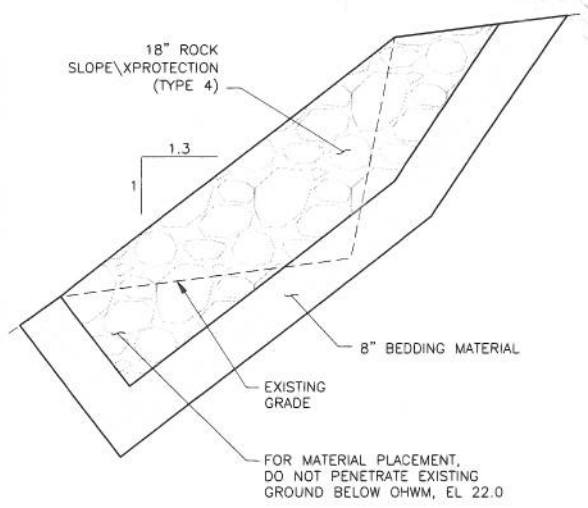
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NOTE:
NEW WORK INCLUDES: REPLACEMENT OF EXISTING WATERSIDE PIPING WITH NEW WSP BETWEEN THE EXISTING FLOW METER AND PUMP DISCHARGE, NEW PILES, ROCK SLOPE PROTECTION, ACCESS DRIVE, PUMP, MOTOR AND ELECTRICAL WORK. WELDED STEEL PIPE INSTALLATION THROUGH LEVEE IS CONSTRUCTED UNDER CONTRACT C-4092

100% SUBMITTAL

REV.	DATE	BY	CHK.	APPR.	DESCRIPTION	REV.	DATE	BY	CHK.	APPR.	DESCRIPTION
0	3/15/12	CLS	GJB	SRS	100% SUBMITTAL						

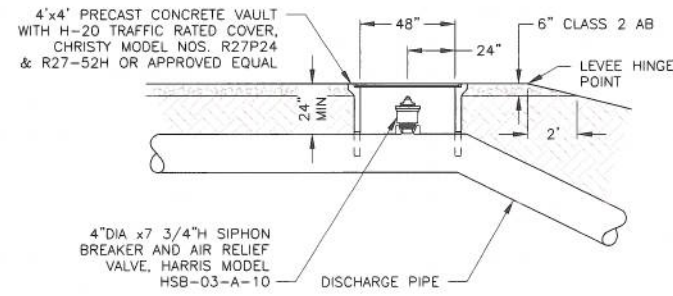
DESIGNED BY: JRA
DRAWN BY: STAFF
CHECKED BY: GJK
IN CHARGE: SRS
DATE: 3/15/12



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SAFCA
VOL 2: SREL PHASES 1F AND 3C IMPROVEMENT PLANS
RIVER PUMP REPLACEMENT
SIDDIQUI SITE PLAN

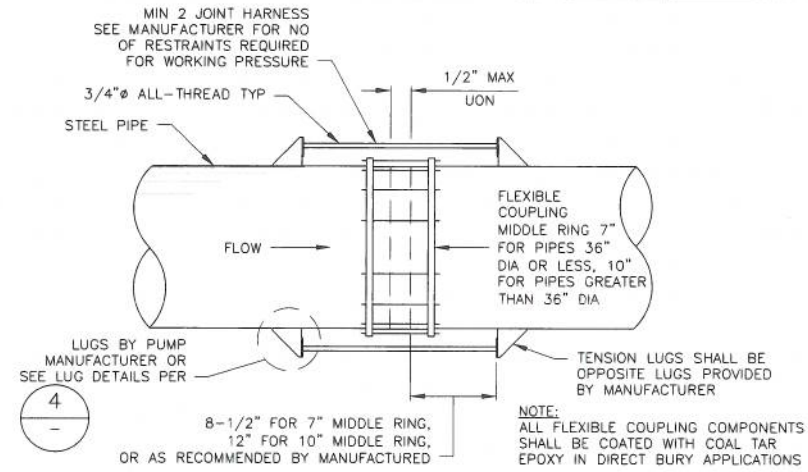
VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING,
ADJUST SCALES FOR
REDUCED PLOTS
0"=1"
DRAWING NO. SHEET
C-105 12



SIPHON BREAKER VAULT

SCALE: NTS

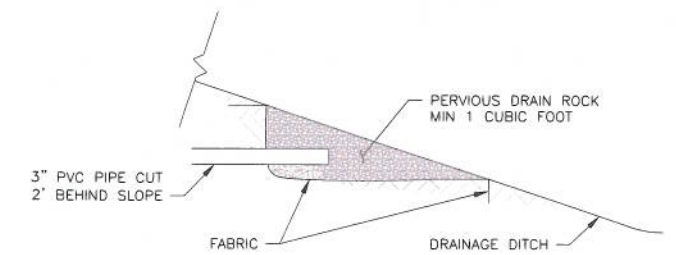
1



RESTRAINED FLEXIBLE COUPLING DETAIL

SCALE: 1"=1'-0"

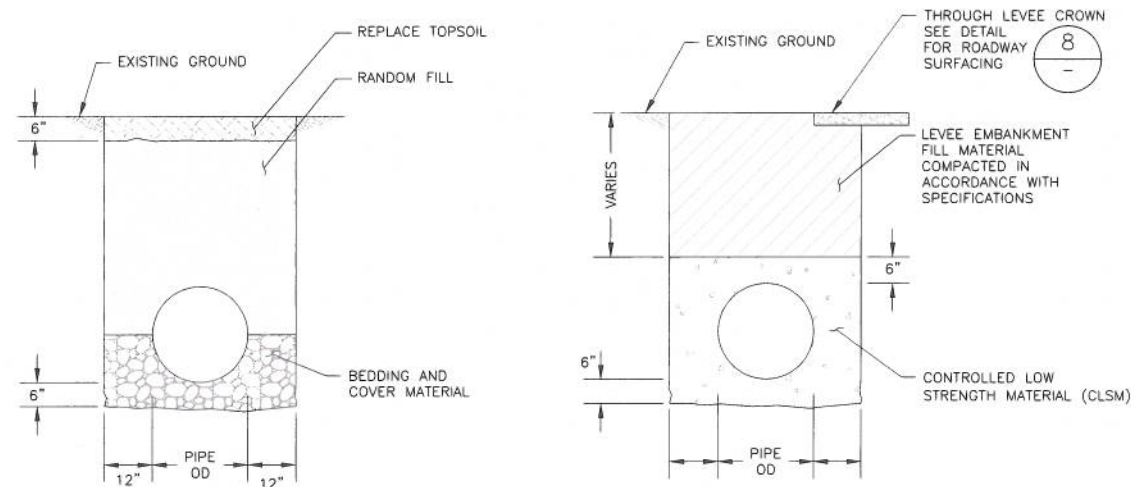
5



DRAIN PIPE DISCHARGE

SCALE: NTS

7



PIPE BACKFILL DETAIL

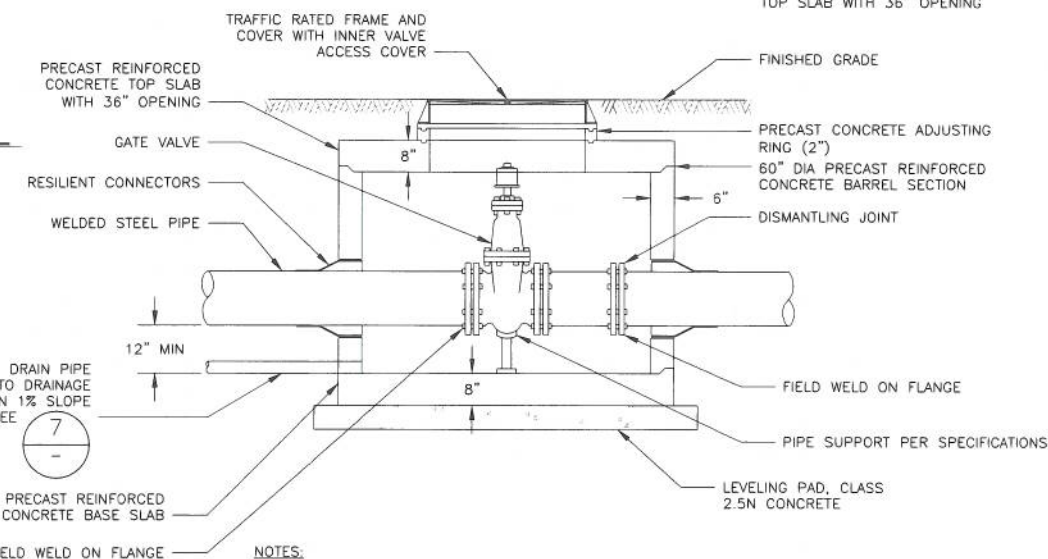
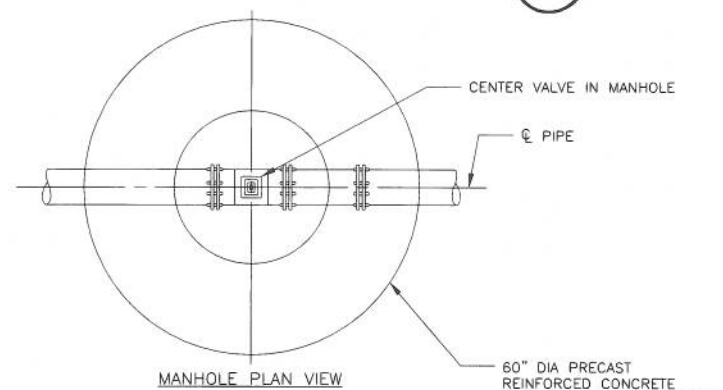
SCALE: 1/2"=1'-0"

2

PIPE BACKFILL DETAIL THROUGH LEVEE

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

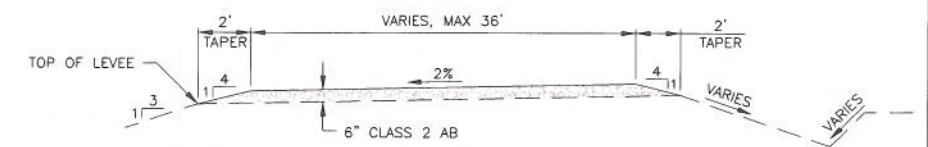
3



VALVE VAULT DETAIL

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

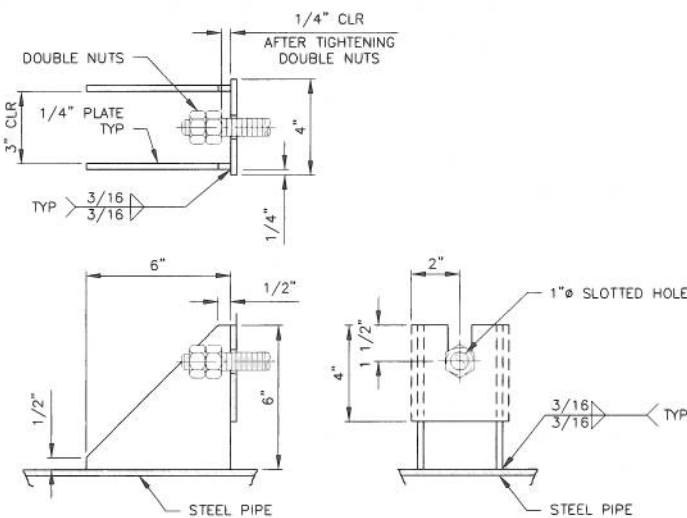
6



TYPICAL LEVEE ROADWAY SURFACEING

SCALE: NTS

8



TYPICAL TENSION LUG DETAILS

SCALE: 3"=1'-0"

4

100% SUBMITTAL

S:\19415-00\98001\TECH\ADD\DWG\Private\BWP-C-002.dwg - 3/7/2012 1:39 PM - 1156jrh

REV.	DATE	BY	CHK.	APPR.	DESCRIPTION	REV.	DATE	BY	CHK.	APPR.	DESCRIPTION
0	3/15/12	CLS	GJB	SRS	100% SUBMITTAL						

DESIGNED BY:	JFN
DRAWN BY:	STAFF
CHECKED BY:	GJB
IN CHARGE:	SRS
DATE:	3/15/12



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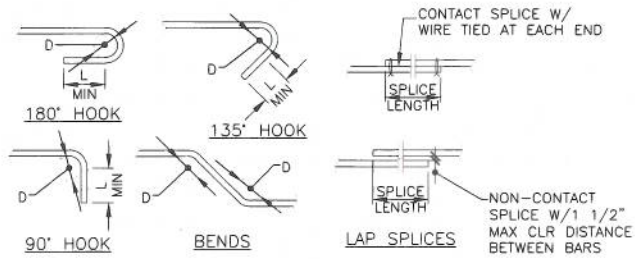
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VOL 2: SREL PHASES 1F AND 3C IMPROVEMENT PLANS
COMMON DETAILS

DRAWING NO. C-002

SHEET 7

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  1"	
DRAWING NO.	SHEET
C-002	7



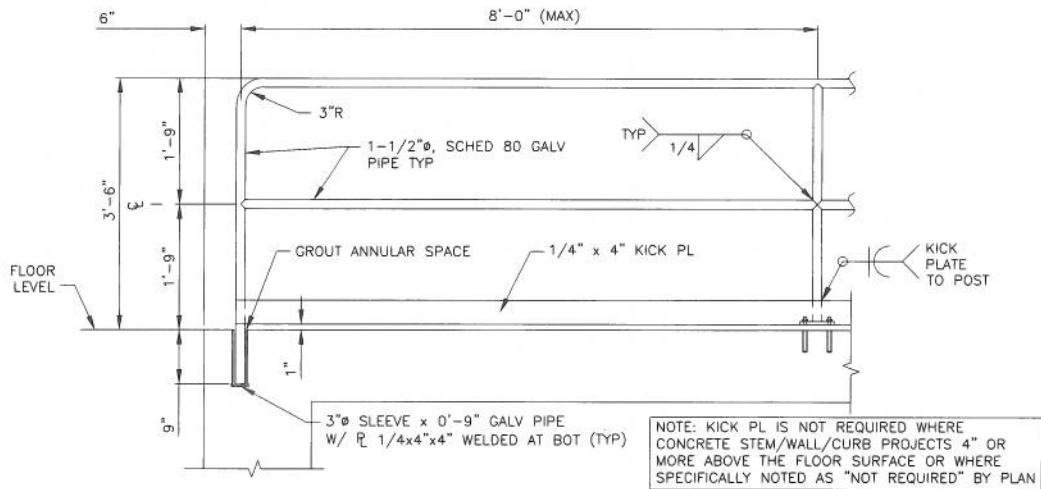
REINFORCING BAR BEND, LAP SPLICE LENGTH AND STANDARD HOOK SCHEDULE					
SIZE	MIN PIN DIA	"TOP" REINF SPLICE LENGTH	"OTHER" REINF SPLICE LENGTH	MIN 90° HOOK "L"	MIN 180° HOOK "L"
#3	2 1/4"	28"	22"	4 1/2"	2 1/2"
#4	3"	37"	29"	6"	2 1/2"
#5	3 3/4"	47"	36"	7 1/2"	2 1/2"
#6	4 1/2"	56"	43"	9"	3"
#7	5 1/4"	81"	63"	10 1/2"	3 1/2"
#8	6"	93"	72"	12"	4"
#9	9 1/2"	105"	81"	13 1/2"	4 1/2"
#10	10 3/4"	118"	91"	15 1/4"	5 1/4"
#11	12"	131"	101"	17"	5 3/4"

TIE, STIRRUP, HOOP AND CROSSTIE SCHEDULE				
SIZE	MIN PIN DIA	MIN 90° HOOK "L"	MIN 135° HOOK "L"	LAP SPLICE LENGTH
#3	1 1/2"	3"	3"	USE TYP REINF SCHEDULE
#4	2"	3"	3"	
#5	2 1/2"	3 3/4"	3 3/4"	

- NOTES:
1. THIS DETAIL SHALL BE USED WHERE REBAR SPLICE LENGTHS AND DEVELOPMENTS ARE NOT SPECIFICALLY DETAILED/DIMENSIONED IN THE DRAWINGS.
 2. SCHEDULE IS BASED ON ACI 318. LAP SPLICES INDICATED ARE CLASS "B".
 3. LAP SPLICE LENGTHS GIVEN ARE APPLICABLE FOR NORMAL WEIGHT CONCRETE WITH A MINIMUM STRENGTH (f_c) OF 3000 PSI. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY TABLE VALUES BY 1.3.
 4. "TOP" REINFORCEMENT IS DEFINED AS HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF FRESH CONCRETE CAST IN THE MEMBER BELOW THE SPLICE.
 5. WHERE BARS OF DIFFERENT SIZE ARE LAP SPICED, SPLICE LENGTH SHALL BE THE SPLICE LENGTH OF LARGER BAR.

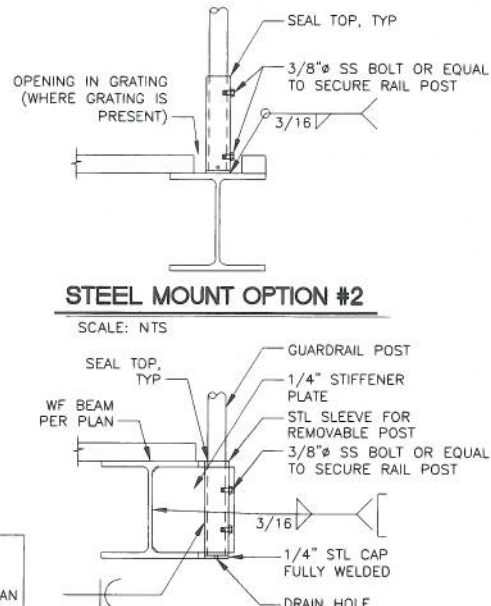
BAR BENDS, HOOKS AND SPLICES

NOT TO SCALE



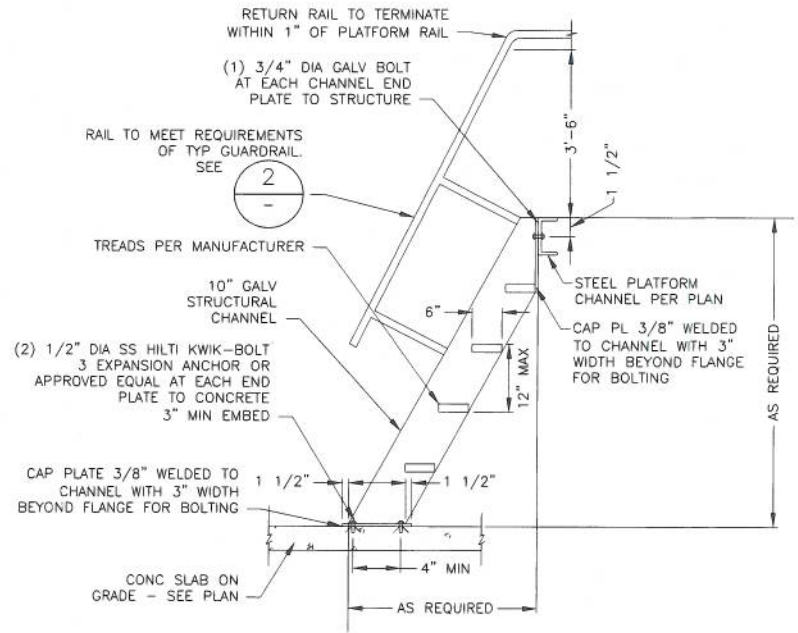
TYPICAL GUARDRAIL DETAIL

SCALE: NTS



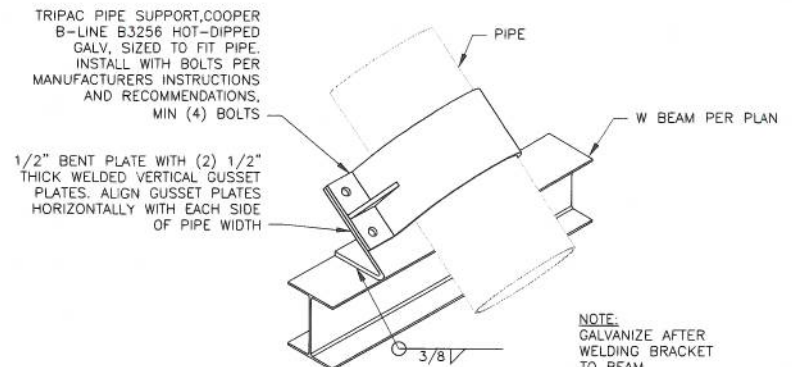
STEEL MOUNT OPTION #1

SCALE: NTS



TYPICAL STAIRWAY DETAIL

SCALE: NTS



BEAM TO PUMP COLUMN CONNECTION

SCALE: NTS



100% SUBMITTAL

S:\19415-00\08001\TECH\CA00\DWG\Private Irrigation and GCS Wells\IRVP-5-002.dwg - 3/6/2012 4:03 PM - 1158jrh

REV.	DATE	BY	CHK.	APPR.	DESCRIPTION	REV.	DATE	BY	CHK.	APPR.	DESCRIPTION
0	3/15/12	CLS	GJB	SRS	100% SUBMITTAL						

DESIGNED BY: EDL
DRAWN BY: STAFF
CHECKED BY: EDL
IN CHARGE: SRS
DATE: 3/15/12

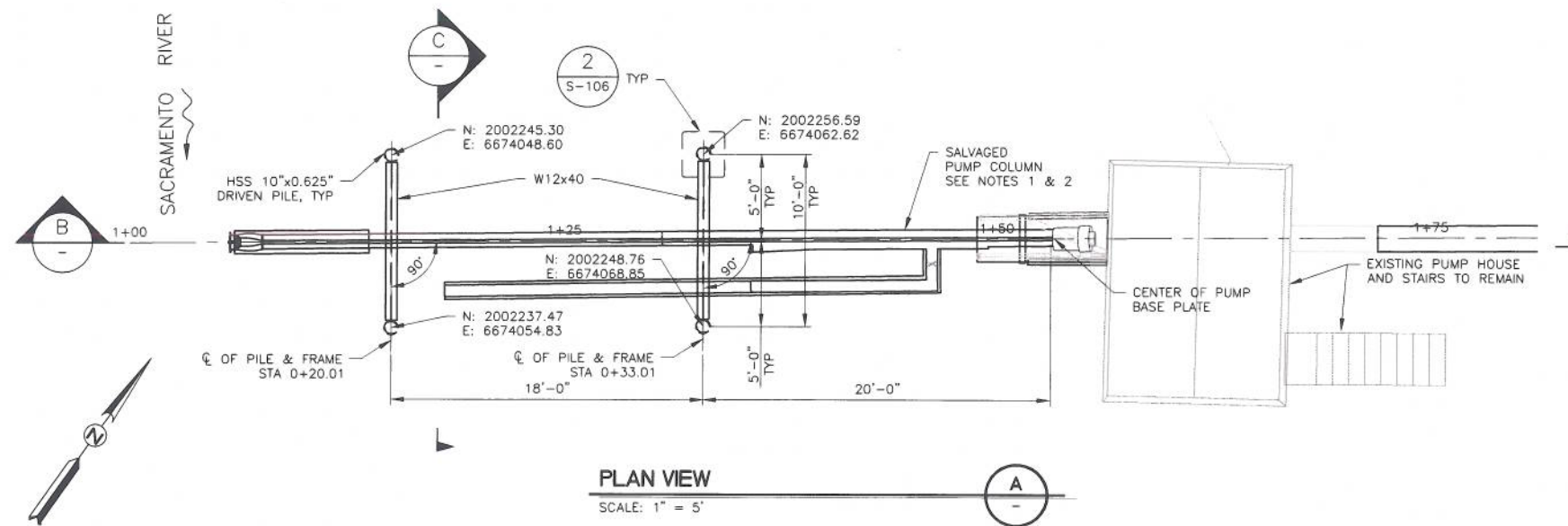
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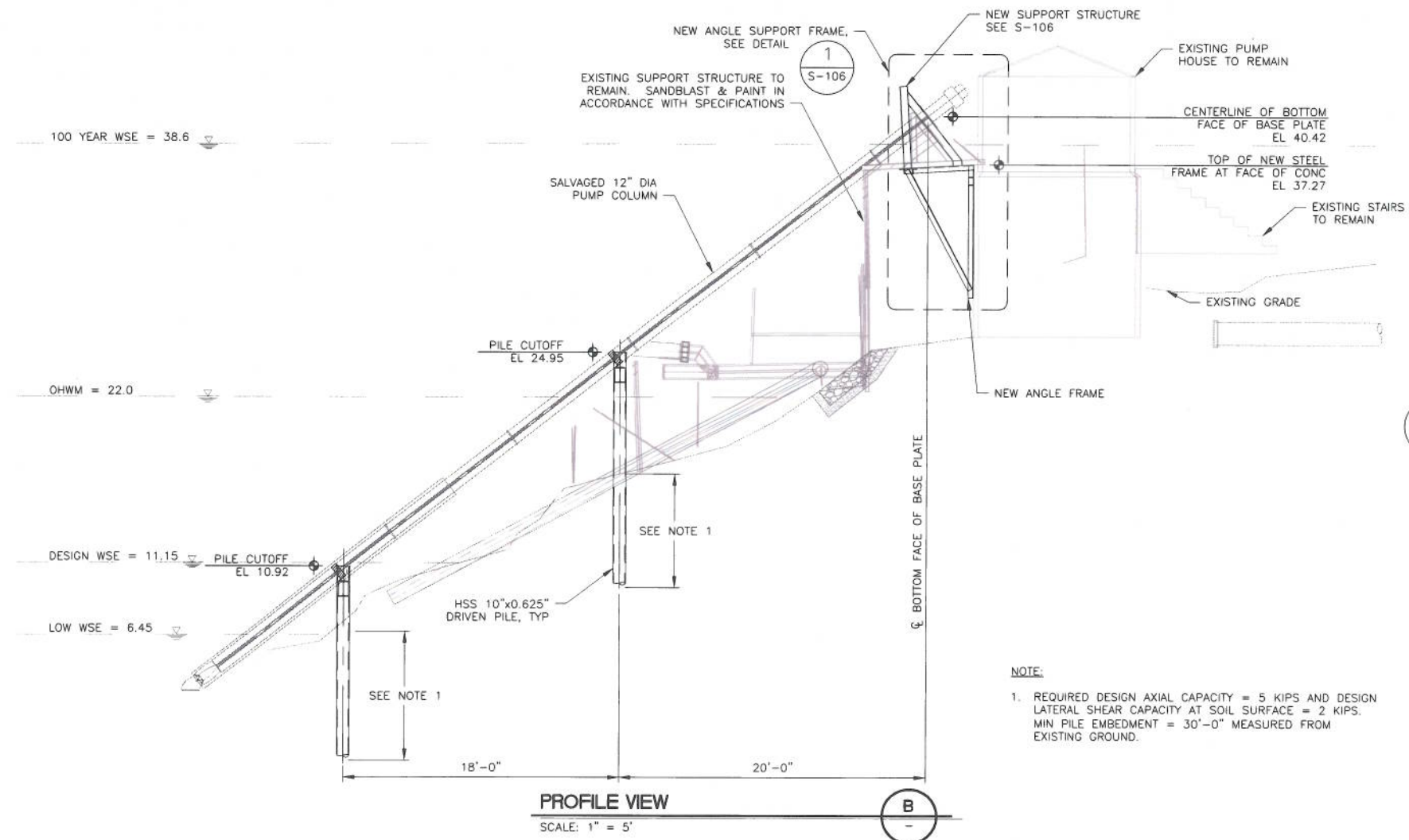
SAFCA
VOL 2: SREL PHASES 1F AND 3C IMPROVEMENT PLANS
TYPICAL STRUCTURAL DETAILS

VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALES FOR
REDUCED PLOTS.
0" = 1"

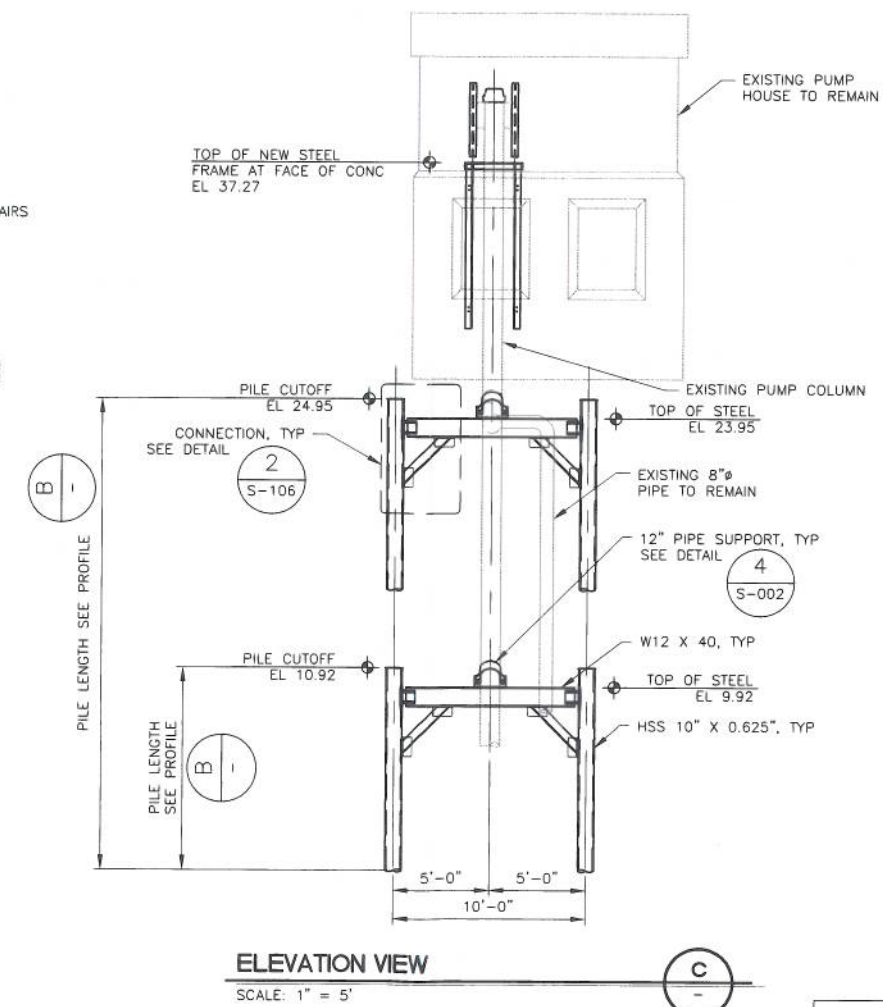
DRAWING NO. S-002
SHEET 15



- NOTES:
1. PRIOR TO PILE LAYOUT AND INSTALLATION, VERIFY PUMP COLUMN FLANGE LAYOUT AND SUPPORT CONFIGURATION. SUBMIT SHOP DRAWINGS FOR PUMP COLUMN INCLUDING PILE LOCATIONS, FLANGE DETAILS, AND REINFORCEMENT PROPOSED.
 2. PUMP COLUMN SHALL BE CAPABLE OF SUPPORTING ITS OWN WEIGHT PLUS A 500# GRAVITY POINT LOAD AND A 1500# LATERAL DEBRIS LOAD AT ANY POINT.

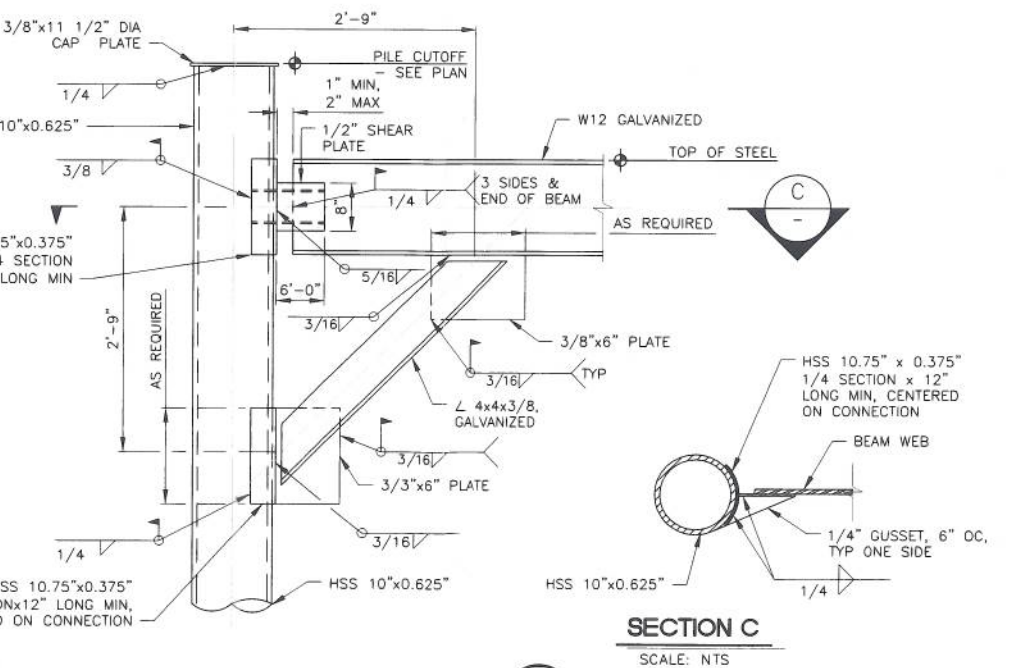


- NOTE:
1. REQUIRED DESIGN AXIAL CAPACITY = 5 KIPS AND DESIGN LATERAL SHEAR CAPACITY AT SOIL SURFACE = 2 KIPS. MIN PILE EMBEDMENT = 30'-0" MEASURED FROM EXISTING GROUND.



100% SUBMITTAL

DESIGNED BY: BPB				DRAWN BY: STAFF				CHECKED BY: EDL				IN CHARGE: SRS				DATE: 3/15/12												Mead & Hunt, Inc. 180 Promenade Circle, Suite 240 Sacramento, CA 95834 916.971.3961 www.meadhunt.com								VOL 2: SREL PHASES 1F AND 3C IMPROVEMENT PLANS RIVER PUMP REPLACEMENT SIDDQUI PLAN AND PROFILE				VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS 0" = 1"				DRAWING NO. SHEET	
0		3/15/12		CLS		GJB		SRS		100% SUBMITTAL		S-105		20																															
REV.	DATE	BY	CHK.	APPR.	DESCRIPTION	REV.	DATE	BY	CHK.	APPR.	DESCRIPTION																																		



VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING,
ADJUST SCALES FOR
REDUCED PLOTS
0 1"

[illegible]

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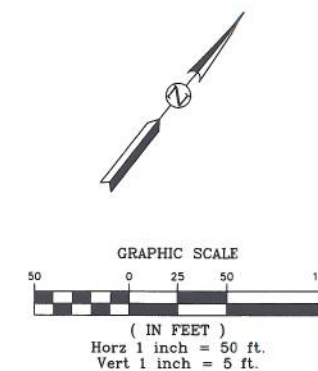
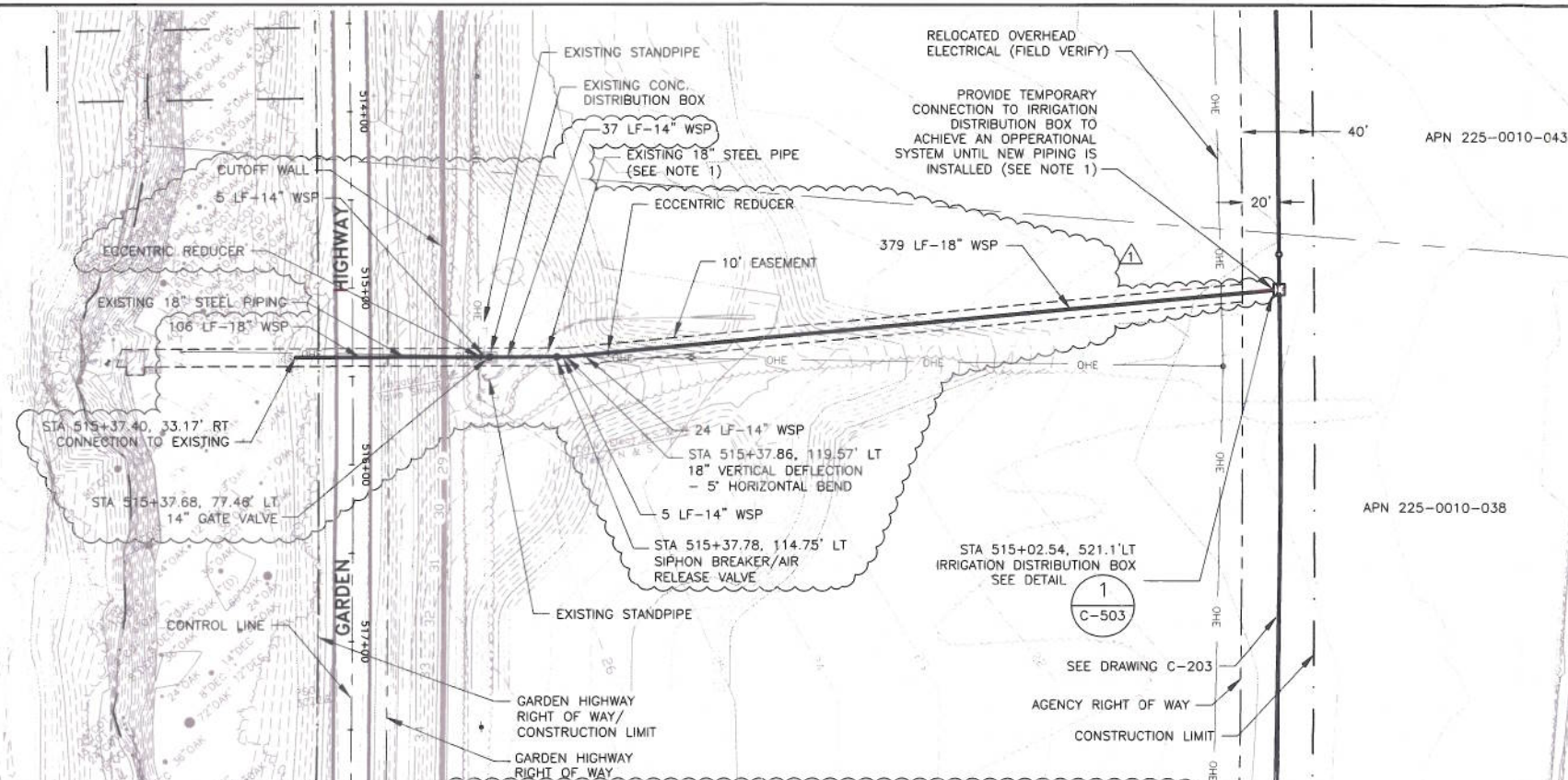
	
VOL 2: SREL PHASES 1F AND 3C IMPROVEMENT PLANS RIVER PUMP REPLACEMENT SIDDIQUI DETAILS	

DRAWING NO.	SHEET
S-106	21

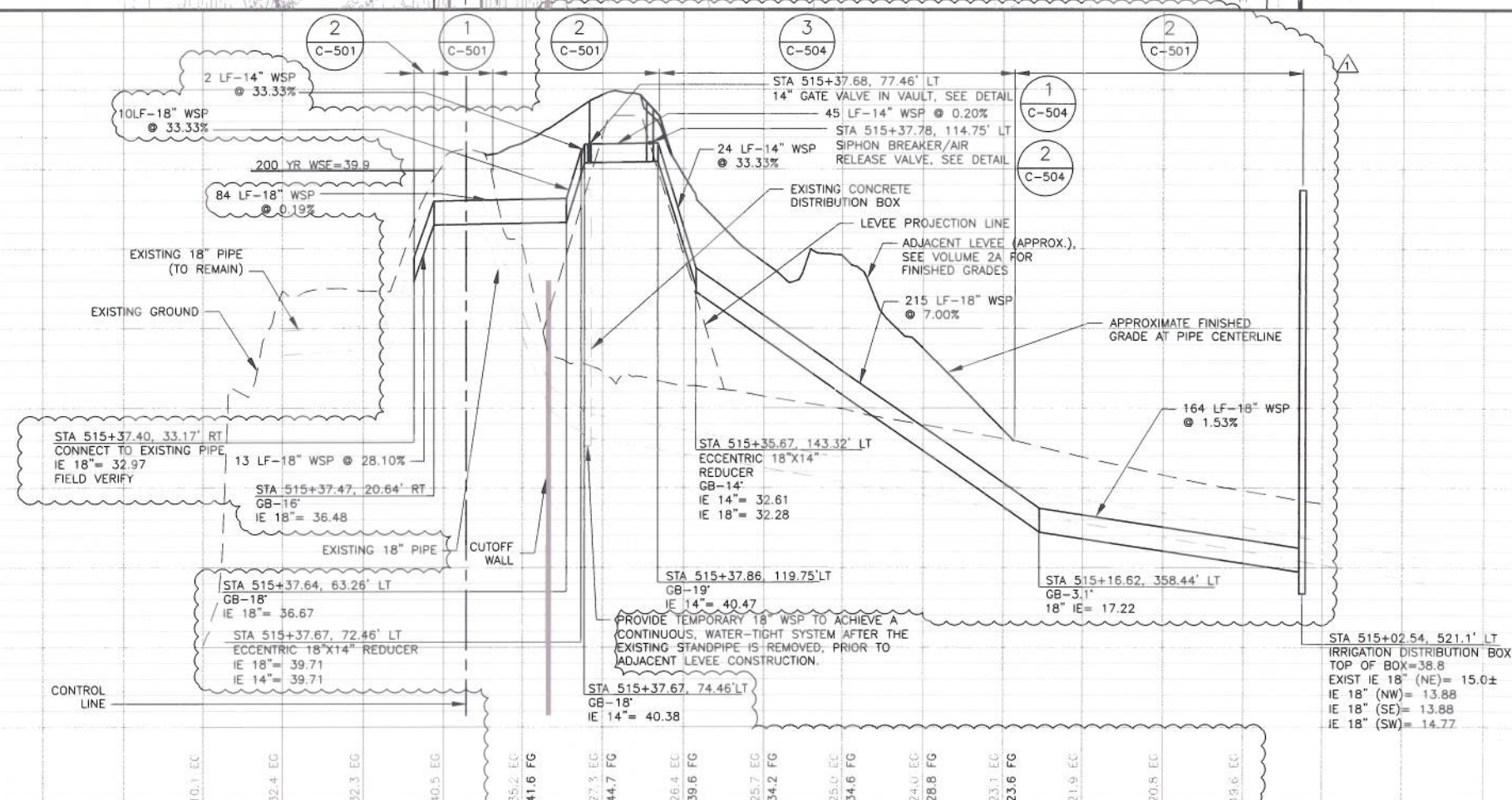
NOTES:

- EXISTING 18" STEEL IRRIGATION LINE FROM PUMP DISCHARGE TO THE NEW IRRIGATION DISTRIBUTION BOX MUST REMAIN IN SERVICE UNTIL NEW 18" STEEL IRRIGATION LINE IS INSTALLED. INSTALLATION OF NEW LINE CANNOT OCCUR UNTIL THE ADJACENT LEVEE HAS SETTLED.
- PIPE LENGTHS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY PRIOR TO FABRICATIONS.
- REPAIR INTERIOR AND EXTERIOR COATINGS AT ALL FIELD WELDED PIPE JOINTS. INCLUDE HAND HOLES AS REQUIRED FOR REPAIR OF INTERIOR COATINGS.
- SITE ACCESS SHALL BE FROM THE EXISTING ACCESS ROADWAY AT APPROXIMATE STA 514+50.
- SEE VOLUME 2A FOR ADJACENT LEVEE CONSTRUCTION DETAILS. REMOVE AND WASTE INDICATED DISTRIBUTION BOX PRIOR TO ADJACENT LEVEE CONSTRUCTION. PROVIDE TEMPORARY PIPING TO ACHIEVE A CONTINUOUS, WATER-TIGHT SYSTEM WHEN THE EXISTING STANDPIPE IS REMOVED. THE IRRIGATION SYSTEM MUST REMAIN OPERABLE DURING THE LEVEE SETTLEMENT PERIOD.
- SEE VOLUME 2A FOR DEMOLITION INFORMATION.

SACRAMENTO RIVER



FINAL LOCATION OF RELOCATED PRIVATE IRRIGATION FACILITIES SUBJECT TO FINAL AGENCY RIGHT OF WAY LOCATION



S:\19415-00\08001\TECH\CADD\DWG\Private Irrigation 10-12\DCN\20 - C-205_C3D2010.dwg - 10/21/2011 1:25 PM - 11377m

REV.	DATE	BY	CHK.	APPR.	DESCRIPTION
1	10/21/11	GJK	JFN	SRS	DESIGN CHANGE NOTICE NO. 6
0	3/28/11	TR/GK	TR/GK	SRS	CONFORMED SET

DESIGNED BY: GJK
 DRAWN BY: JJC
 CHECKED BY: AKR
 IN CHARGE: SRS
 DATE: 3/28/11



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TIM BUSCH
 SUBMITTED

STEPHEN SULLIVAN
 APPROVED

SAFCA

VOL 3A: SREL PHASE 3B IMPROVEMENT PLANS
 PRIVATE IRRIGATION PLAN AND PROFILE
 STA 514+00 TO 517+00

VERIFY SCALES
 BAR IS ONE INCH ON
 ORIGINAL DRAWING.
 ADJUST SCALES FOR
 REDUCED PLOTS
 0" = 1"

DRAWING NO.	SHEET
C-205	20