

**Meeting of the Central Valley Flood Protection Board  
September 26, 2014**

**Staff Report**

**South Sutter Water District  
Pleasant Grove Canal Fish Screen Project, Placer County**

---

**1.0 – REQUESTED ITEM**

Consider approval of Draft Permit No. 18968 (Attachment B).

**2.0 – APPLICANT**

South Sutter Water District

**3.0 – PROJECT LOCATION**

The project is located southwest of the intersection of South Doud Road and Aiken Road in Lincoln, California. (Auburn Ravine and Pleasant Grove Creek Canal, Placer County, see Attachment A).

**4.0 – PROJECT DESCRIPTION**

The applicant proposes to install two 14-feet wide cone fish screens supported on two (2) 15-feet by 15-feet steel plates and three (3) 12-inch steel piles connected to two (2) 48-inch steel pipes to convey screened water from Auburn Ravine into Pleasant Grove Creek Canal; installation of a power pole on the south bank of Pleasant Grove Creek Canal and installation of approximately 830-feet of a 2-inch conduit along the north bank of Pleasant Grove Creek Canal to provide electrical power to the fish screens.

**5.0 – AUTHORITY OF THE BOARD**

California Water Code § 8534, 8590 – 8610.5, and 8700 – 8710

California Code of Regulations Title 23 (Title 23)

- § 6, Need for a Permit
- § 112, Streams Regulated and Non-permissible Work Periods
- § 123, Pipelines, Conduits and Utility Lines

## **6.0 – PROJECT ANALYSIS**

The proposed project will replace an existing flashboard dam and gravity diversion with a state-of-the-art fish protection screen. The proposed two 48-inch pipes will divert water from Auburn Ravine into Pleasant Grove Creek Canal ("Canal"). The applicant (SSDW) holds several post-1914 appropriative water rights from the State Water Resources Control Board (SWRCB). License No. 11121 authorizes the diversion of water from East Side Canal, Coon Creek, Marham Ravine and Auburn Ravine. Power to the site will be provided by PG&E by installing a new power pole and running a 2-inch conduit to the fish screen control pad area. Maintenance of the fish screens can be accomplished by accessing them via the existing embankment road along the intake canal. The proposed project is consistent with applicable standards from Title 23.

### **6.2 – Hydraulic Summary**

No hydraulic analysis was required for the proposed project because the installation of the piles is considered insignificant.

### **6.3 – Geotechnical Summary**

The proposed project does not affect any federal/non-federal levees. However, all earthwork activities necessary for the construction of the project will be performed in compliance with Draft Permit No. 18968 and applicable Title 23 technical standards.

## **7.0 – AGENCY COMMENTS AND ENDORSEMENTS**

The comments and endorsements associated with the project are as follows:

- The U.S. Army Corps of Engineers (USACE) Sacramento District non-fed comment letter was received for this application on August 26, 2014. The letter indicates that the USACE District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project. The letter is incorporated into the permit as Exhibit A.
- Reclamation District 1001 endorsed the project without any conditions on May 28, 2014 (Attachment C).

**8.0 – CEQA ANALYSIS**

Board staff has prepared the following California Environmental Quality Act (CEQA) determination:

The Board, as a responsible agency under CEQA, has reviewed the Initial Study/Mitigated Negative Declaration (IS/MND) (SCH Number: 2014052092, May 2014), and Mitigation Measures for the Pleasant Grove Canal Fish Screen Project prepared by the lead agency, South Sutter Water District. These documents, including project design, may be viewed or downloaded from the Central Valley Flood Protection Board website at <http://www.cvpfb.ca.gov/meetings/2014/09-26-2014.cfm> under a link for this agenda item. These documents are also available for review in hard copy at the Board and the Placer County offices.

South Sutter Water District determined that the project would not have a significant effect on the environment on July 31, 2014 and adopted Resolution 2014-08. Subsequently, a Notice of Determination was filed on August 8, 2014 with the Placer County Clerk. The Board finds that although the proposed project could have a potentially significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. The project proponent has incorporated mandatory mitigation measures into the project plans to avoid identified impacts or to mitigate such impacts to a point where no significant impacts will occur. These mitigation measures are included in the project proponent's IS/MND and address impacts to biological resources, cultural resources, geology and soils, hazardous materials, hydrology and water quality. The description of the mitigation measures are further described in the adopted IS/MND.

The documents and other materials which constitute the record of the Central Valley Flood Board's proceedings in this matter are in the custody of Leslie Gallagher, Acting Executive Officer, Central Valley Flood Protection Board, 3310 El Camino Ave., Rm. 151, Sacramento, California 95821.

**9.0 – CALIFORNIA WATER CODE § 8610.5 CONSIDERATIONS**

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

*The CVFPB has considered all the evidence presented in this matter, including the applications for Permit No. 18968, all supporting technical documentation provided by the applicant.*

- 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 work covered under this permit as regulated by Title 23 have been applied to the review of this permit.*

- Effects of the decision on the facilities of the State Plan of Flood Control, and consistency of the proposed project with the Central Valley Flood Protection Plan as adopted by CVFPB Resolution 2012-25 on June 29, 2012:

*There will be no adverse effects to the State Plan of Flood Control as a result of this project. The project improves the previous use of the project site and will be maintained by the Applicant.*

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

*There are no impacts to the proposed project from reasonable projected future events because the proposed work is an improvement to existing water usage/diversion from the canal.*

**10.0 – STAFF RECOMMENDATION**

Board staff recommends that the Board:

- Adopt the CEQA findings;
- Approve Draft Encroachment Permit No. 18968 (in substantially the form provided); and
- Direct the Executive Officer to take the necessary actions to execute the permit and file a Notice of Determination pursuant to CEQA with the State Clearinghouse.



## **1.0 – LIST OF ATTACHMENTS**

A – Project Vicinity, Location Maps and photos

B – Draft Permit No. 18968

Exhibit A – USACE Comment Letter (dated August 26, 2014)

C – Reclamation District 1001 endorsement (dated May 28, 2014)

D – Design Plans

Prepared by:	Angeles Caliso, Water Resources Engineer
Document Review:	Mitra Emami, Permitting Section Chief
	Andrea Buckley, Senior Environmental Scientist
	Len Marino, Chief Engineer
Legal Review	Debbie Smith, Counsel

This page intentionally left blank.

## Project Location

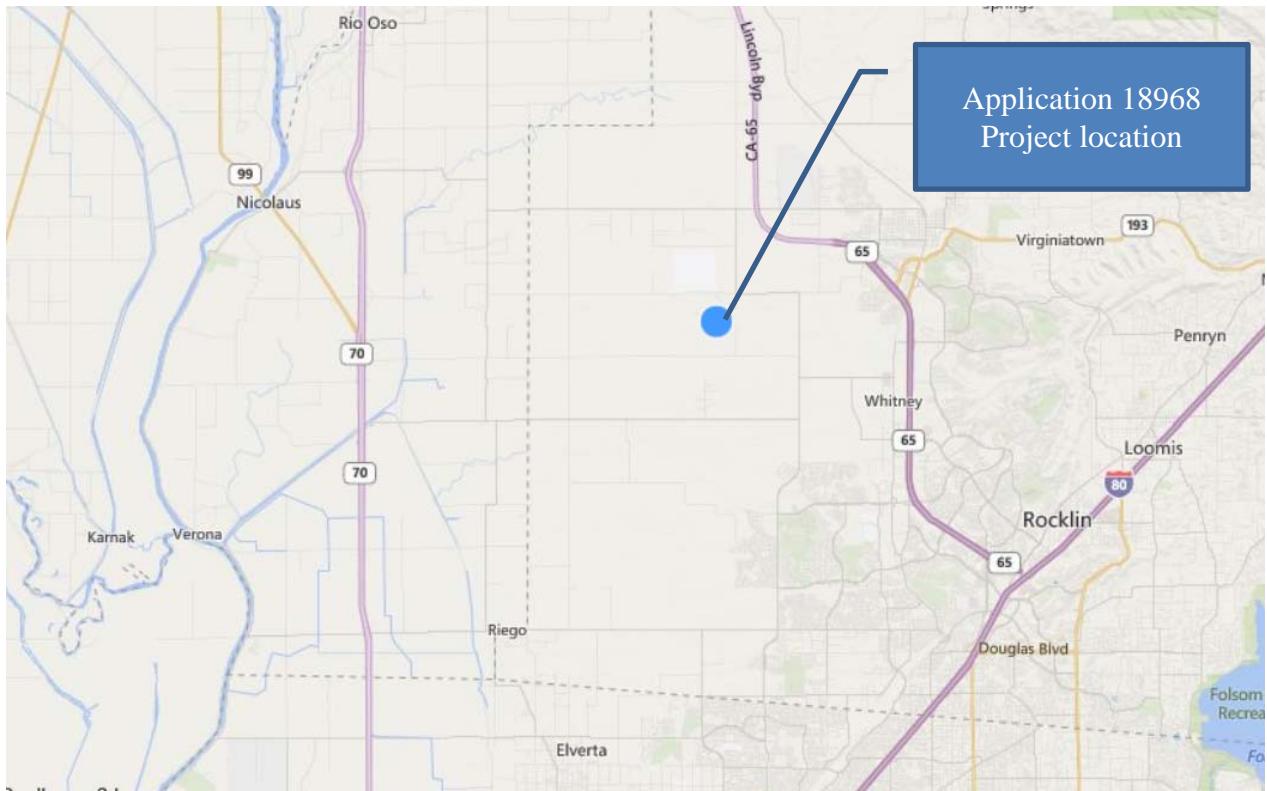


Figure 2- Project Location (Image Source: Bing Maps)

## Project Vicinity



Figure 1- Project Location (Image Source: Google Earth)





Picture 1 and 2: Mouth of Pleasant Grove Canal where screens will be installed. Pictures taken on April 15, 2011.



Picture 3 and 4: Pleasant Grove Canal during non-irrigation. Pictures taken on April 15, 2011.



Picture 5: Auburn Ravine. Picture taken on April 15, 2011.



This page intentionally left blank.

**DRAFT**

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

**PERMIT NO. 18968 BD**

**This Permit is issued to:**

South Sutter Water District  
2464 Pacific Avenue  
Trowbridge, California 95659

To install two 14-ft wide cone fish screens supported on two (2) 15-ft by 15-ft steel plates and three (3) 12-inch steel piles connected to two (2) 48-inch steel pipes to convey screened water from Auburn Ravine into Pleasant Grove Creek Canal; placement of a power pole on the south bank of Pleasant Grove Creek Canal and installation of approximately 830-ft of a 2-inch conduit along the north bank of Pleasant Grove Creek Canal to provide electrical power to the fish screens. The project is located southwest of the intersection of South Doud Road and Aiken Road in Lincoln, CA (Section 26, T12N, R5E, MDB&M, Reclamation District 1001, Pleasant Grove Creek Canal, Placer 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. 18968 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 approval of the Central Valley Flood Protection Board.

**FOURTEEN:** The permittee should contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Branch, 1325 J Street Room 1350, Sacramento, California 95814, telephone (916) 557-5250, as compliance with Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act may be required.

**FIFTEEN:** The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities 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.

**SIXTEEN:** 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.

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

EIGHTEEN: Upon receipt of a signed copy of the issued permit, 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.

NINETEEN: The mitigation measures approved by the CEQA lead agency and the permittee are found in its Mitigation and Monitoring Reporting Program (MMRP) adopted by the CEQA lead agency. The permittee shall implement all such mitigation measures.

TWENTY: 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 1 to April 15.

TWENTY-ONE: The conduit shall be located a minimum distance of 10 feet from the top of bank.

TWENTY-TWO: The conduit shall be buried at least 24 inches below existing grade.

TWENTY-THREE: Backfill material for excavations shall be free of stones or lumps that exceed 3 inches in greatest dimension, organic matter, or other unsatisfactory material and shall be compacted to at least the density of the adjacent, firm, undisturbed material.

TWENTY-FOUR: After each period of high water, debris that accumulates at the site shall be completely removed from the floodway.

TWENTY-FIVE: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

TWENTY-SIX: If the permitted encroachments result in an adverse hydraulic impact, the permittee shall provide appropriate mitigation measures, to be approved by the Central Valley Flood Protection Board, prior to implementation of mitigation measures.

TWENTY-SEVEN: The permitted encroachment(s) shall not interfere with operation and maintenance of the flood control project. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project 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-EIGHT: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if 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 damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

TWENTY-NINE: 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.

THIRTY: The permittee shall comply with all conditions set forth in the letter from the Department of the Army (U.S. Army Corps of Engineers, Sacramento District) dated August 26, 2014, which is attached to this permit as Exhibit A and is incorporated by reference.

THIRTY-ONE: Upon completion of the project, the permittee shall submit As-Built Drawings to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite 256, Sacramento, California 95821.



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
U.S. Army Engineer District, Sacramento  
Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

**ATTACHMENT B  
EXHIBIT A**

Flood Protection and Navigation Section (18968)

AUG 26 2014

Ms. Leslie M. Gallagher, Acting Executive Officer  
Central Valley Flood Protection Board  
3310 El Camino Avenue, Room 151  
Sacramento, California 95821

Dear Ms. Gallagher:

We have reviewed a permit application by South Sutter Water District (application number 18968). This project includes installing two 14 feet wide cone fish screens supported on two (2) 15 feet by 15 feet steel plates and three (3) 12 inch steel piles to convey screened water from Auburn Ravine into Pleasant Grove Creek Canal. The proposed work also includes placing a power pole on the south bank of Pleasant Grove Creek Canal and installing 830 feet of a 2 inch conduit along the north bank of Pleasant Grove Creek Canal. The project is located southwest of the intersection of South Dowd Road and Aiken Road in Lincoln, at 38.858056°N 121.38611°W NAD83, Placer County, California.

The District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project.

A file (2014-00694) has been opened because a Section 10 and/or Section 404 permit may be required. Please advise the applicant to contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Division, 1325 J Street, Room 1350, Sacramento, California 95814, telephone (916) 557-5250.

A copy of this letter is being furnished to Mr. Don Rasmussen, Chief, Flood Project Integrity and Inspection Branch, 3310 El Camino Avenue, Suite 200, Sacramento, CA 95821.

Sincerely,

Ryan Larson, P.E.  
Chief, Flood Protection and Navigation Section

This page intentionally left blank.

**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD  
ENCROACHMENT PERMIT**Application No. **18968**  
(For Office Use Only)

## 1. Description of proposed work:

South Sutter Water District (SSWD) proposes to install two cone fish screens at the mouth of the Pleasant Grove Canal, where it branches off of the Auburn Ravine, to protect SSWD from regulatory actions enforced by NOAA NMFS. In conjunction with the fish screen installation, Pacific Gas & Electric (PGE) will be installing power poles and an electrical service line to power the fish screens. See attached South Sutter Water District Fish Screen & PGE Power Pole Installation for a complete project description. Installation of the PGE power line and the fish screens would take place between August through November, during low to no flows in the canal.

2. Location: Placer County, in Section 26,Township: 12 N (N), Range R 5 E (S), (W), M. D. B. & M.3. South Sutter Water District of 2464 Pacific Avenue  
Name of Applicant AddressTrowbridge  
CityCA  
State95659  
Zip Code530-656-2242  
Telephone Number530-656-2416  
Fax Number

## 4. Endorsement: (of Reclamation District)

We, the Trustees of Reclamation District No. 1001  
Name and District Number

approve this plan, subject to the following conditions:

☐ Conditions listed on back of this form☐ Conditions Attached☒ No Conditions

Greg W. Madson 5/28/14 C. Clader 5-28-14  
Trustee Date Trustee Date

John R. Zerk 5/28/14 \_\_\_\_\_  
Trustee Date Trustee Date

Robert A. Scherby 5-28-14 \_\_\_\_\_  
Trustee Date Trustee Date

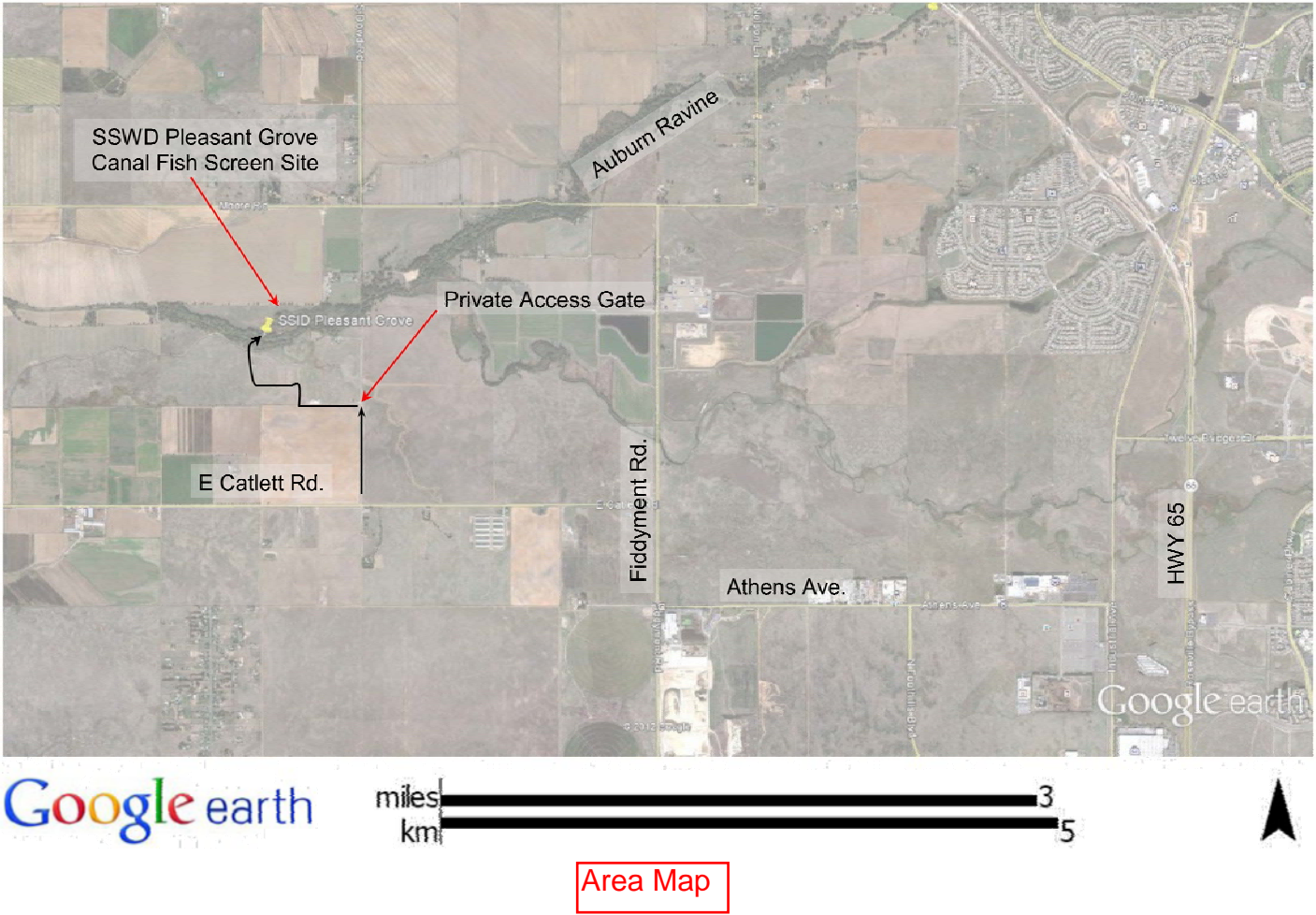
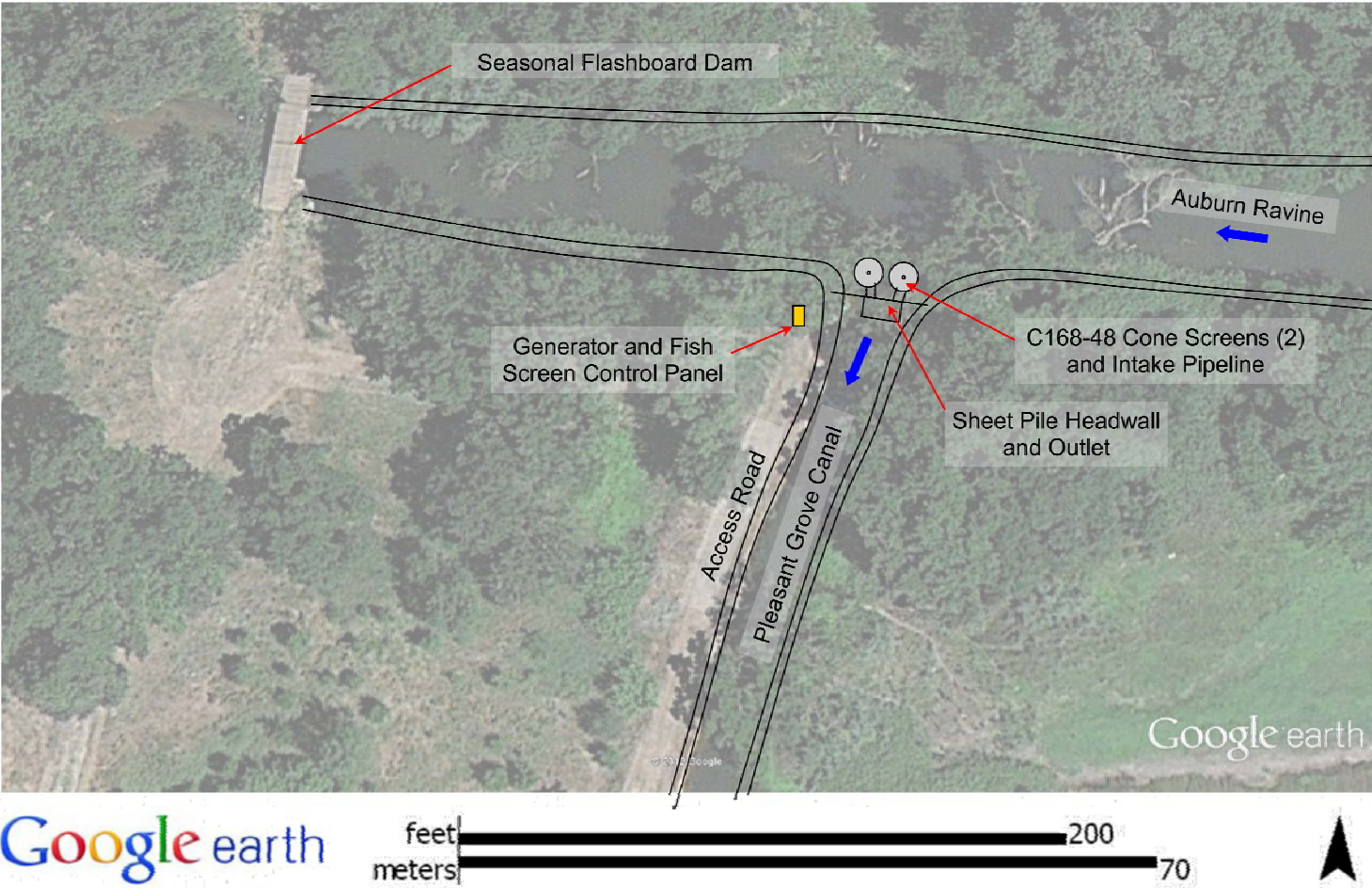
## 5. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

Auburn Ravine Ranch Inc.  
Name1364 S. Dowd Road, Lincoln, CA  
Address95648  
Zip CodeF & G Machado6241 E. Catlett Road, Lincoln, CA95648Warm Springs Inv. LTD2220 Douglas Road Suite 290, Roseville CA95661James Boyette4094 2<sup>nd</sup> Avenue, Sacramento, CA95817

This page intentionally left blank.

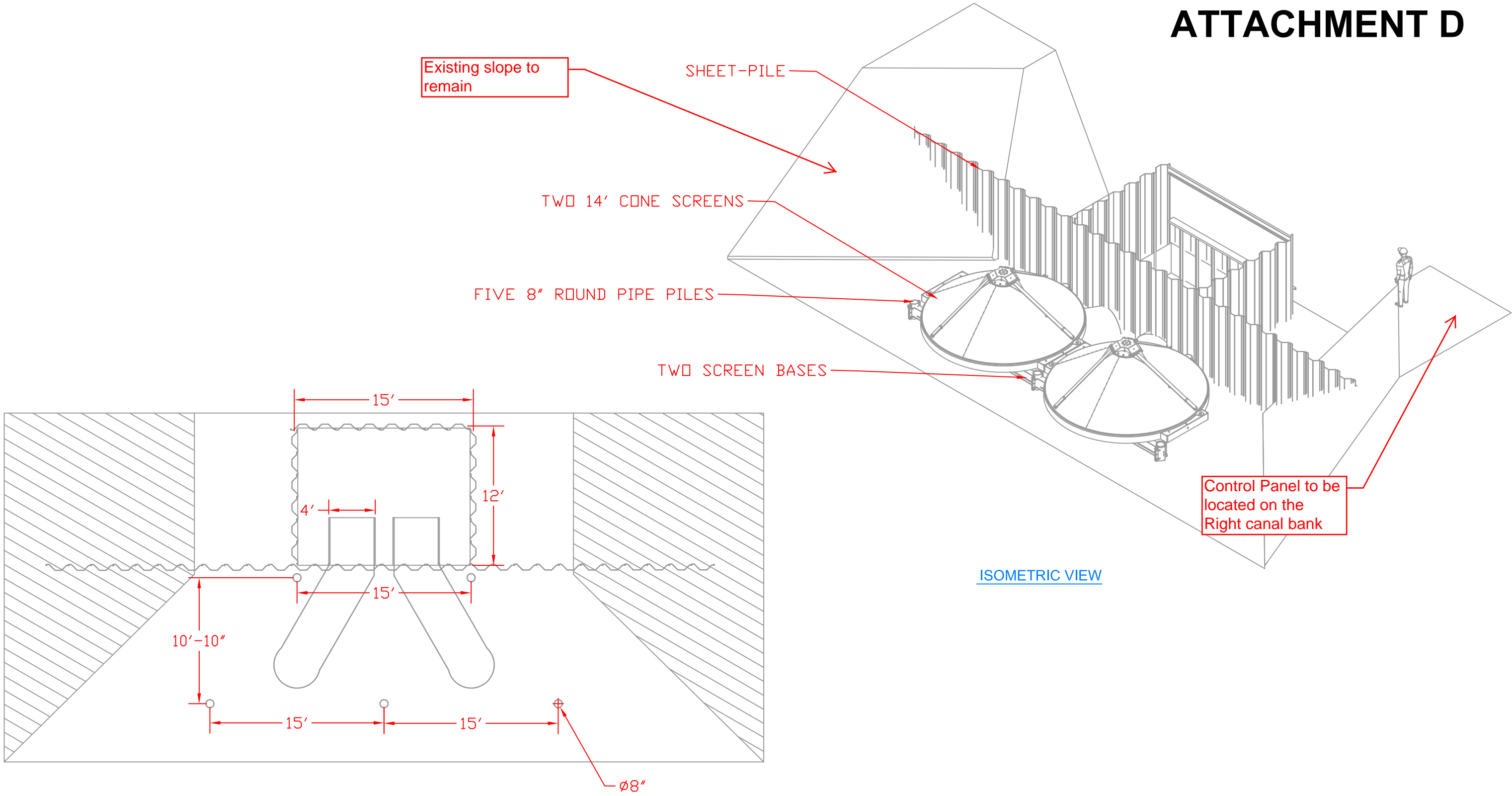



ATTACHMENT D



ALL DIMENSIONS IN INCHES UNLESS NOTED				<div>www.intakescreensinc.com</div> <div>CA C.L. 796197</div> <div><div><div>ISI</div><div>Intake Screens, Inc.</div></div><div>8417 River Road - Sacramento, California 95832 (916) 665-2727 (916) 665-2729 FAX</div></div>		DATE 10/29/12		PROJECT:  SOUTH SUTTER	DESCRIPTION:  LOCATION AND SITE MAP	DRAWING NUMBER:  SOUTH SUTTER	SHEET NUMBER  1
		APP'D BY DARRYL HAYES									
		DRAWN BY JACOB CHAPIN									
		"B" SHEET SCALE NTS									
REV #	DESCRIPTION			DATE	INITIAL						
Designs are property of INTAKE SCREENS INC; and are subject to change without notice.			STANDARD TOLERANCES Fractional Dimensions ± 1/32 Decimal Dimensions ± .005								

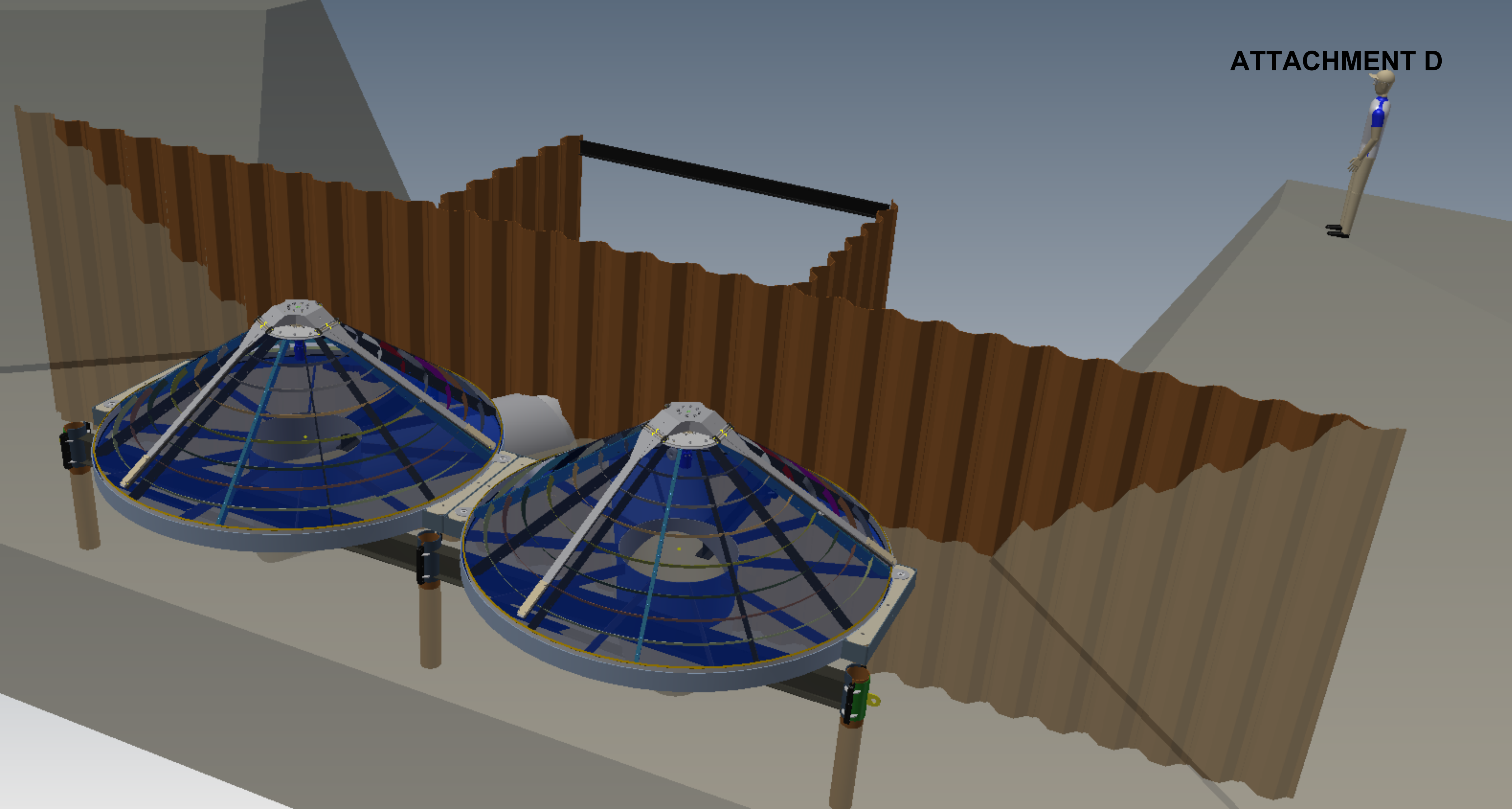
ATTACHMENT D



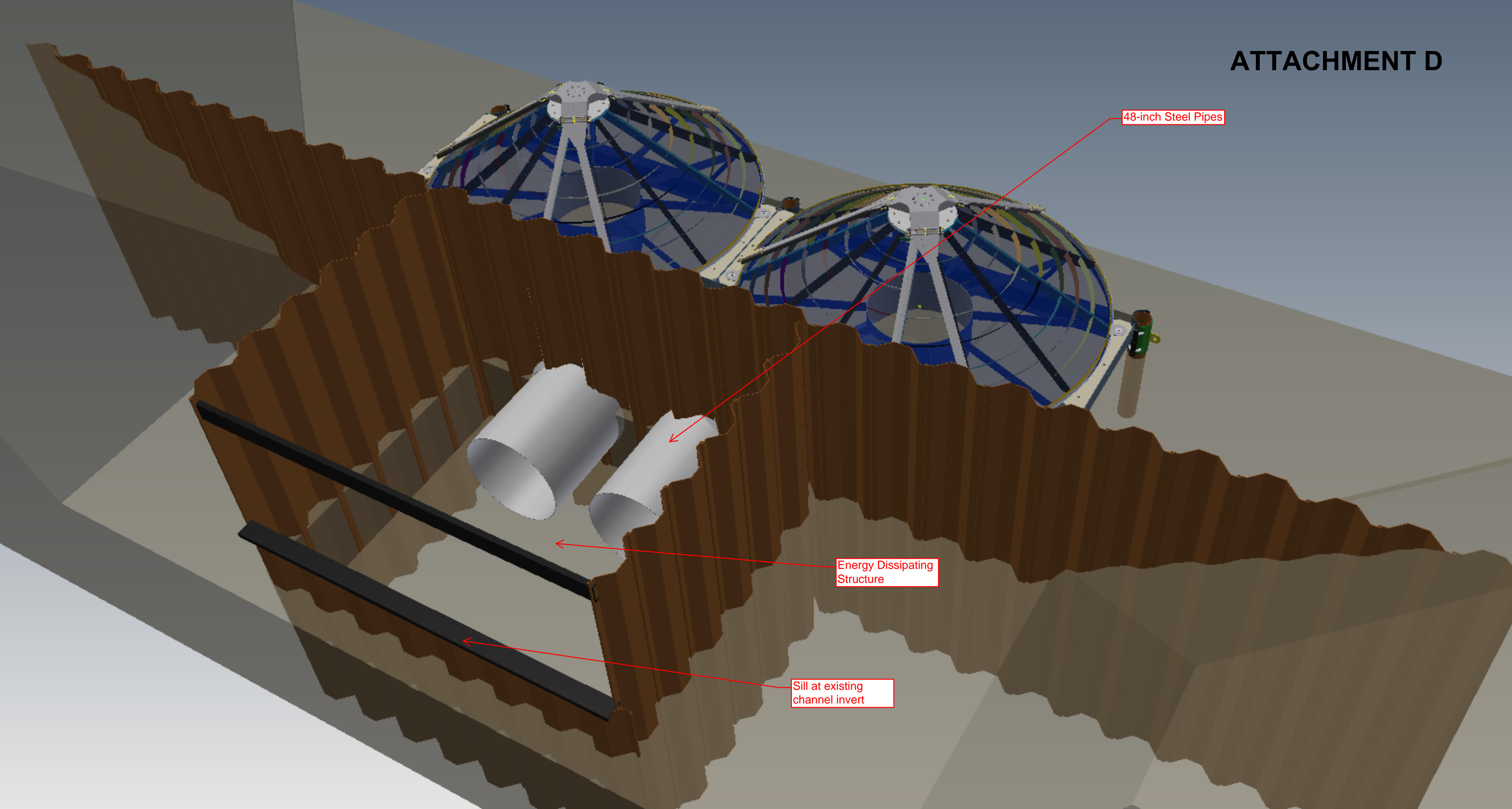
ALL DIMENSIONS IN INCHES UNLESS NOTED				<div><div><div>www.intakescreensinc.com</div><div>CA C.L. 796197</div><div>Intake Screens, Inc.</div><div>8417 River Road - Sacramento, California 95832</div><div>(916) 665-2727 (916) 665-2729 FAX</div></div></div>	DATE 4/5/12	PROJECT:  SOUTH SUTTER	DESCRIPTION:  LAYOUT	DRAWING NUMBER:  SOUTH SUTTER	SHEET NUMBER 3
					APP'D BY DARRYL HAYES				
					DRAWN BY JACOB CHAPIN				
					"B" SHEET SCALE 1:100				
REV #	DESCRIPTION		DATE	INITIAL					
Designs are property of INTAKE SCREENS INC; and are subject to change without notice.			STANDARD TOLERANCES Fractional Dimensions ± 1/32 Decimal Dimensions ± .005						



# ATTACHMENT D



ATTACHMENT D



48-inch Steel Pipes

Energy Dissipating  
Structure

Sill at existing  
channel invert