

**Meeting of the Central Valley Flood Protection Board  
May 25, 2012**

**Staff Report – Encroachment Permit**

**Pacific Gas and Electric Company (PG&E)  
Pipeline Installation, San Joaquin County**

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**1.0 – ITEM**

Consider approval of Permit No. 18727 (Attachment B).

**2.0 – APPLICANT**

Pacific Gas & Electric Company (PG&E), San Joaquin County

**3.0 – LOCATION**

The project is located in Stockton along the alignment of McAllen Road beginning at Holman Road and extending approximately 3,500 feet easterly. (Calaveras River, San Joaquin County, see Figures 1 and 2.)



Figure 1 – Vicinity Map of project location in Stockton, CA  
(Source: Google Earth Pro)

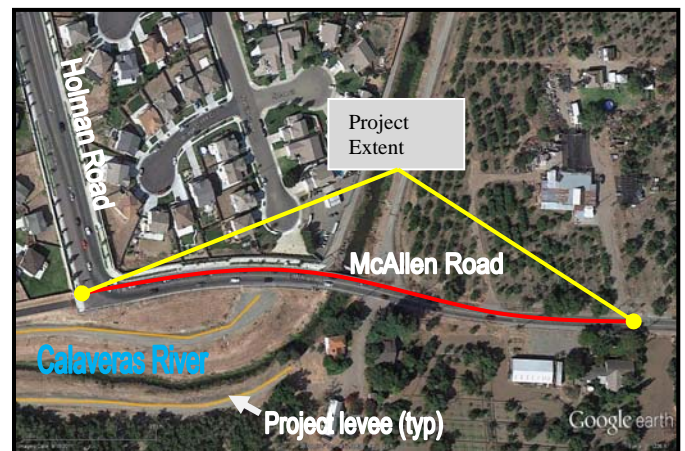


Figure 2 – Areal Map of project extent in Stockton, CA  
(Source: Google Earth Pro)

#### **4.0 – DESCRIPTION**

Applicant proposes to abandon the existing 2-inch diameter steel main gas pipeline and install a 6-inch diameter high pressure plastic gas line along the McAllen Road alignment between Holman Road and Wilson Way. The new pipeline will be installed using directional drilling boring method beneath the Calaveras River. The pipe invert will be at least 30-feet below the low water surface channel.

#### **5.0 – PROJECT ANALYSIS**

The proposed project involves the abandonment of the existing 2-inch diameter steel main gas pipeline that runs east and west along the southerly side of McAllen Road; and the installation by horizontal directional drilling method of a 3,500-foot long 6-inch diameter high pressure plastic gas line beneath the Calaveras River. The existing steel main pipeline is currently attached under the south side of the McAllen Road Bridge that crosses over the Calaveras River; while portions of it are buried approximately 10 feet underground. Applicant proposes to remove the exposed portion of the steel pipeline. The buried portion will be cut off at the ground, filled with concrete slurry at least 10 feet into the pipe, and capped with a metal plate.

The 6-inch diameter high pressure plastic gas line will be installed by horizontal directional drilling method through the McAllen Road alignment and under the Calaveras River. The invert of the pipe will be at least 30-feet below the low water surface channel. The boring portal will be located at the intersection of Holman Road and McAllen Road near an existing gas stub, while the outlet will be approximately 1,200-linear feet easterly of the portal, and will follow the McAllen Road alignment. The proposed method and location of installation will have no significant impacts on the existing levee and regulated stream.

#### **5.1 – Hydraulic Analysis**

Hydraulic impacts from the construction of the project are considered insignificant and limited to the landside of the levee. Therefore, a hydraulic analysis was not required.

## 5.2 – Geotechnical Analysis

A geotechnical analysis was not required as no work will take place within 10-feet from the landside levee toe and does not encroach into the projected levee slope. Earthwork will be completed in accordance with conditions in Permit No. 18727 (Attachment B) and Board Regulations, Title 23.

## **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 to ensure conformity with the permit language and incorporate it into the permit as Exhibit A.
- The San Joaquin County Flood Control & Water Conservation District endorsed the proposed project on March 23, 2011 with conditions that have been incorporated into the permit.

## **7.0 – CEQA ANALYSIS**

CVFPB Staff has prepared the following CEQA findings:

CVFPB, as a responsible agency under CEQA, has reviewed Draft Environmental Impact Report (DEIR) (SCH Number: 2004042009, July 2006) and Final Environmental Impact Report (FEIR) (December 2006) and Mitigation, Reporting, and Adaptive Management Program for the Pacific Gas & Electric Company San Joaquin Valley Operations and Maintenance Habitat Conservation Plan prepared by the lead agency, California Department of Fish and Game (CDFG). These documents, including project design, may be viewed or downloaded from the CVFPB website at <http://www.cvfpb.ca.gov/meetings/2012/05-25-2012.cfm> under a link for this agenda item. These documents are also available for review in hard copy at the CVFPB and the CDFG offices.

CDFG has determined that the project would not have a significant effect on the environment and certified the project on May 5, 2008 and subsequently filed a Notice of Determination on May 9, 2008 with the State Clearinghouse. CVFPB staff 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 FEIR and address impacts to biological resources, hydrology and water quality, and paleontological resources. The description of the mitigation measures are further described in the adopted FEIR.

### **8.0 – SECTION 8610.5 CONSIDERATIONS**

1. 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 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 of Water Resources or other parties that raise credible scientific issues.

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

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

This project has no negative impacts on the State Plan of Flood Control. Both hydraulic and geotechnical impacts from the project construction are negligible.

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 other foreseeable projected future events that would impact this project.

## **9.0 – STAFF RECOMMENDATION**

Staff recommends that the CVFPB 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.

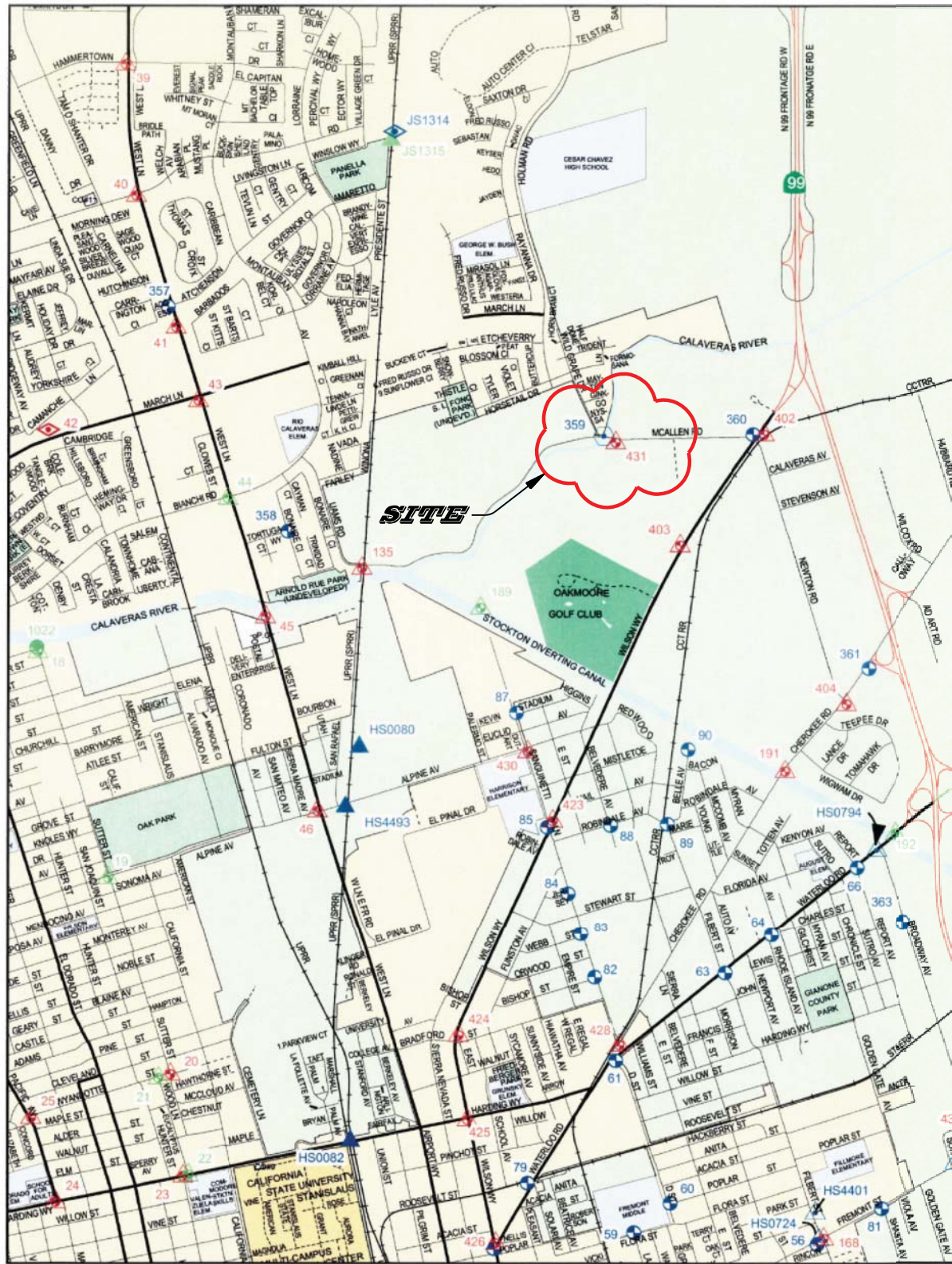
## **10.0 – LIST OF ATTACHMENTS**

- A. Location Maps and Photos
- B. Draft Permit No. 18727
- C. PG&E Pipe Boring Project General Plan
- D. San Joaquin County Flood Control & Water Conservation District Endorsement Letter, Dated March 23, 2011

Design Review:	Martin Janolo
Environmental Review:	James Herota and Andrea Mauro
Document Review:	Len Marino, Mitra Emami, Michael C. Wright

# VICINITY MAP

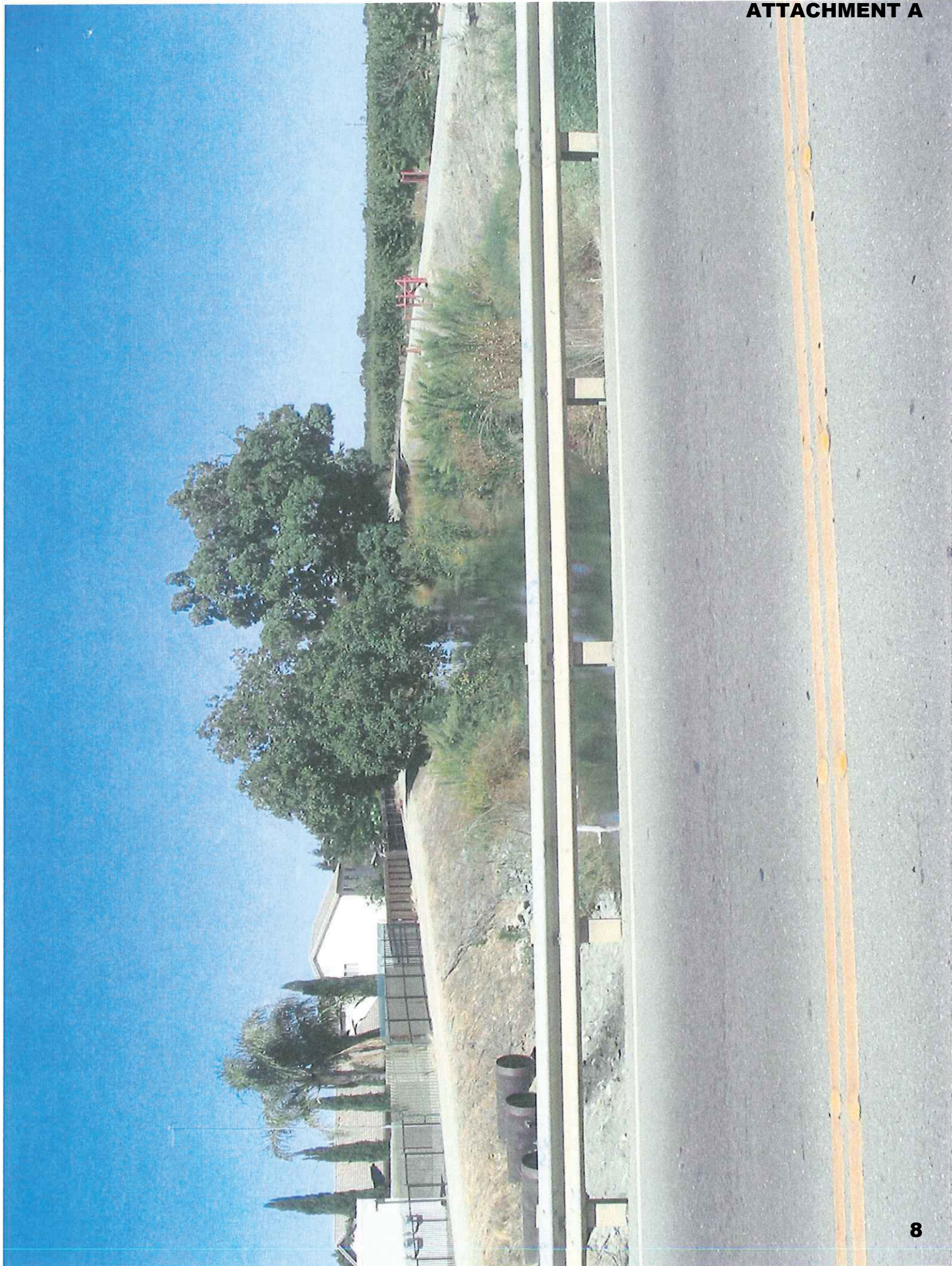
ATTACHMENT A



B3

Applicant:				PG&E - McAllen Road Gas Line Project		SCALE	DATE
						N/A	6/4/2011
SECTION	TOWNSHIP	RANGE	MERIDIAN	COUNTY OF:	CITY OF:		
(24)	(2N)	(6E)	M.D.B.&M.	SAN JOAQUIN	STOCKTON		
PLAT MAP - ELECTRIC - T-11-22				F.B.:	DR.BY:	CH.BY:	
REFERENCES - NOTIF. #104079929				PG&E	STOCKTON DIVISION	30790929	DRAWING NO.









**DRAFT**

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

**PERMIT NO. 18727 BD**

**This Permit is issued to:**

Pacific Gas and Electric Company  
4040 West Lane  
Stockton, California 95204

To abandon existing 2-inch diameter steel main gas pipeline and install a 6-inch diameter high pressure plastic gas line along the McAllen Road alignment between Holman Road and Wilson Way; the new pipeline will be installed using directional drilling boring method and will go under the Calaveras River. Project is located in Stockton and will follow the McAllen Road alignment beginning at Holman Road and extending approximately 3,500 feet easterly. (Section 24 & 25, T2N, R6E, MDB&M, San Joaquin County Flood Control and Water Conservation District, Calaveras River, San Joaquin 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  
Page 1 of 4

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. 18727 BD**

**THIRTEEN:** If the construction project extends onto land owned in fee and/or easement by the Sacramento and San Joaquin Drainage District acting by and through the Central Valley Flood Protection Board (Board), the permittee should secure an easement, license, or temporary entry permit from the Board prior to commencement of work. Contact Angelica Aguilar at (916) 653-5782.

**FOURTEEN:** 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.

**FIFTEEN:** No work authorized by this permit shall be performed until the Department of Water Resources has received, reviewed, and approved in writing, a complete set of final submitted plans, drawings, and specifications for the project. The Central Valley Flood Protection Board shall have up to 30 days after receipt of plans, drawings, and specifications for the review process. The Central Valley Flood Protection Board and/or the Department of Water Resources may extend this review period up to 15 days by written notification.

**SIXTEEN:** The permittee shall arrange for an inspector from the Department of Water Resources to be at the site prior to any excavation and during all backfill operations. For availability and scheduling of an inspector, contact the Department of Water Resources at telephone number (916) 574-0609 at least 10 working days prior to the start of work.

**SEVENTEEN:** The Central Valley Flood Protection Board, Department of Water Resources, and San Joaquin County Flood Control & Water Conservation District shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or

emergency repair.

**EIGHTEEN:** The permittee shall be responsible for repair of any damages to the project levee and other flood control facilities due to construction, operation, or maintenance of the proposed project.

**NINETEEN:** 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.

**TWENTY:** 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-ONE:** The permittee shall comply with all conditions set forth in the letter from the San Joaquin County Flood Control & Water Conservation District dated March 23, 2011, which is attached to this permit as Exhibit B and is incorporated by reference.

**TWENTY-TWO:** Upon receipt of the U.S. Army Corps of Engineers 208.10 comment letter indicating that the USACE District Engineer has no objection to the project subject to conditions, the letter will be incorporated into this permit as Exhibit A.

**TWENTY-THREE:** Upon receipt of a signed copy of the issued (not approved only) 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.

**TWENTY-FOUR:** The Central Valley Flood Protection Board, Department of Water Resources, and San Joaquin County Flood Control & Water Conservation District shall not be held liable for damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

**TWENTY-FIVE:** 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.

**TWENTY-SIX:** 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-SEVEN: Any damage to the levee crown roadway or access ramps shall be promptly repaired to the condition that existed prior to utilization.

TWENTY-EIGHT: Abandoned pipes within the levee section shall be removed from the levee section or completely filled with concrete in accordance with Central Valley Flood Protection Board standards. A detailed plan for filling the abandoned pipe with concrete shall be submitted to and approved by the Central Valley Flood Protection Board prior to commencing work.

TWENTY-NINE: Concrete backfill for abandoned pipes shall be at least a 3-sack cement mix with 6- to 8-inch slump and all aggregate smaller than the 3/8-inch sieve. Only the minimum pressure needed to fill the pipe with concrete shall be applied.

THIRTY: In the event the abandoned pipe becomes exposed due to erosion, the permittee shall repair the erosion or remove the abandoned pipe as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

THIRTY-ONE: The project shall be located off the levee section and a minimum distance of 10 feet from the landside levee toe.

THIRTY-TWO: Pipe installed under the levee and stream channel shall have a minimum of 30 feet of cover below the levee toes and under the stream channel.

THIRTY-THREE: Excavations for the bore pit are not permitted within 100 feet of the landside or waterside levee toe.

THIRTY-FOUR: Excess bentonite or other drilling fluids shall be properly disposed of outside of the floodway. The bentonite or other drilling fluids shall not be used as backfill.

THIRTY-FIVE: No material shall be stockpiled closer than 50 feet from the landside toe of the project levee.

THIRTY-SIX: Entrance and exit points of the tunnel, jacking, or boring shall be a minimum distance of 10 feet beyond the projected levee slopes.

THIRTY-SEVEN: If the permittee or successor does not comply with the conditions of this permit and an enforcement by the Central Valley Flood Protection Board is required, the permittee or successor shall be responsible for bearing all costs associated with the enforcement action, including reasonable attorney's fees.

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

REPLACE 2" STEEL MAIN WITH 6" PLASTIC  
ON McALLEN RD  
BETWEEN HOLMAN RD & WILSON WAY  
STOCKTON, CA

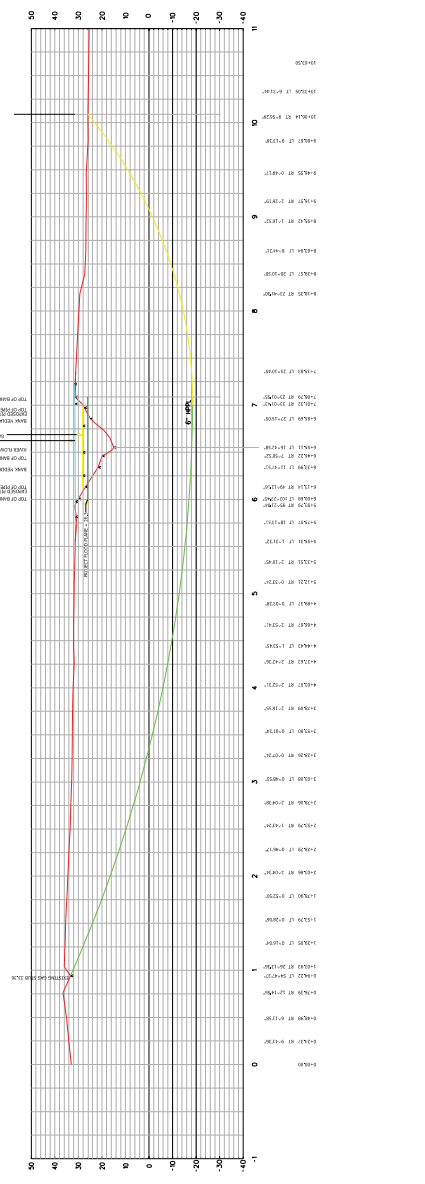
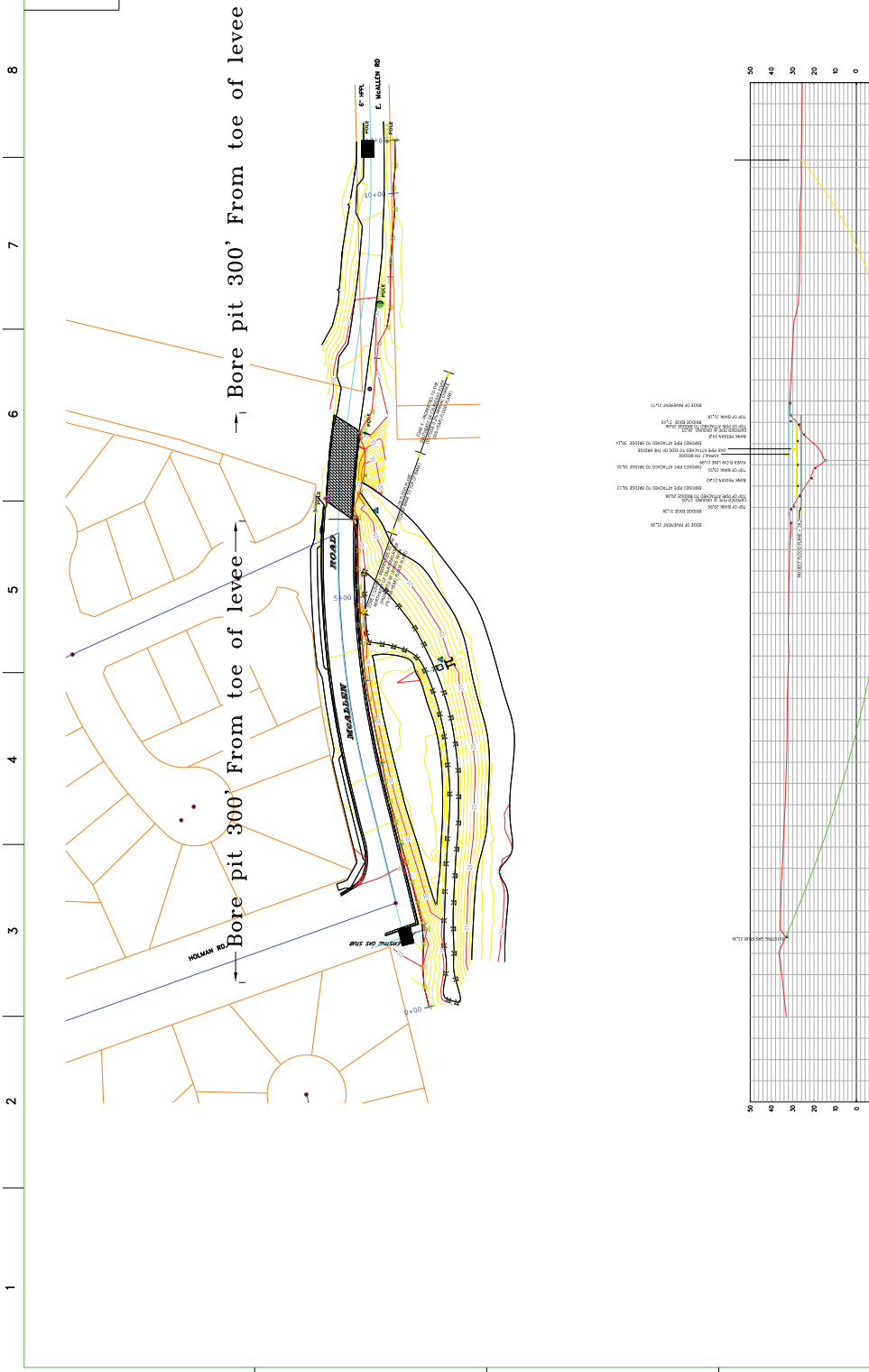
STOCKTON  
PLAT 2947-13-14  
CPA 30050C

**PRELIMINARY**

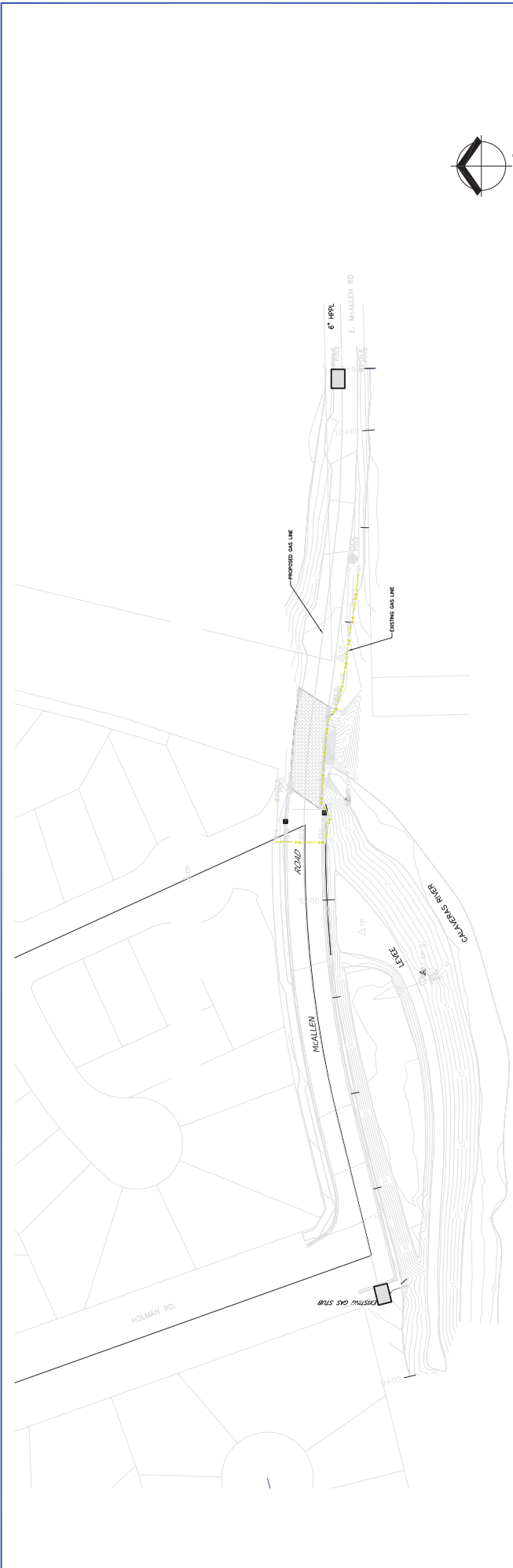
NO.	DATE	DESCRIPTION

EST: THOR ARSLAND (TAA)  
 SUPV: ERIC BERNARD (EBS)  
 REP: ALLEN FONG (AF4)  
 PLAN: DAVE BARNES (DOB)  
 SCALE: 1"=100'  
 DATE: 01/30/10  
 REV. 30790929

ENGINEERING AND PLANNING DEPT.  
 4101 WIBLE ROAD  
 BAKERSFIELD, CA 93313  
 PHONE # (661) 398-3960 FAX # (661) 398-3913  
 PACIFIC GAS AND ELECTRIC COMPANY

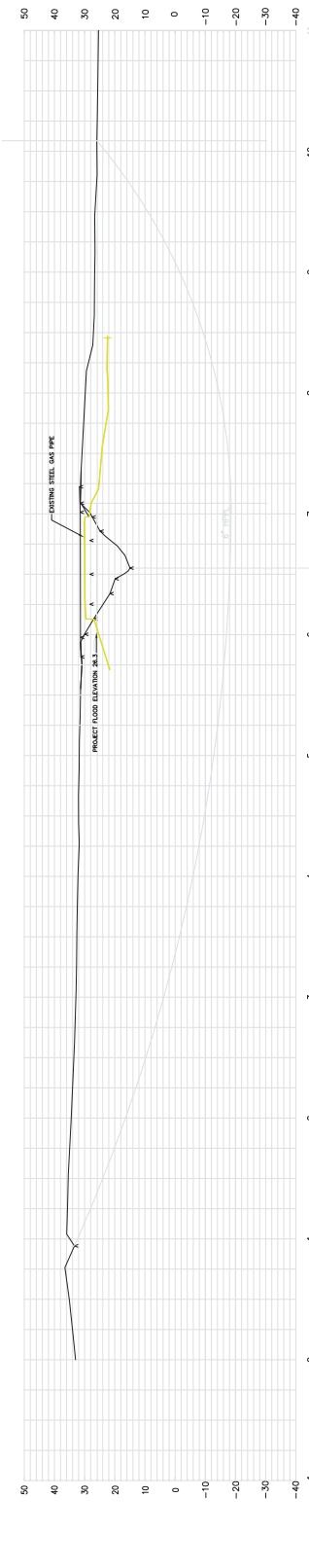
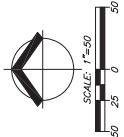


**GAS CONSTRUCTION NOTES:**  
 1. MARK ALL BORES WITH WHITE TO BE 300' FROM THE TOE OF THE LEVEE.  
 2. ALL BORES TO BE 300' FROM THE TOE OF THE LEVEE.  
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 10. ALL BORES TO BE 300' FROM THE TOE OF THE LEVEE.



PRELIMINARY

SUE LEGEND  
 — C-B — GAS QUALITY LEVEL "B"



THE EXISTING GAS LINE SHOWN IN COLORS ON THIS PLAN IS REFERRED TO IN THE LEGEND AS BEING INVESTIGATED BY CARDNO INC. IN ACCORDANCE WITH THE SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO INC. BY OTHERS. CARDNO'S QUALITY LEVEL IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION PURPOSES. THE LIMITS SHOWN WAS PERFORMED JULY 1, 2011. THE GAS PROFILE IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION PURPOSES. NO CONTRACT DEPTH MEASUREMENTS ARE NECESSARY. THE GAS LINE SHALL BE CONSIDERED AS BEING AT A DEPTH OF 10 FEET UNLESS OTHERWISE NOTED DATA ON THE GAS LINE INCLUDING ACTUAL DEPTH RELATIVE TO THE GROUND SURFACE (SUE QUALITY LEVEL "A" STANDARDS). USE OF THIS PROFILE FOR SUBSURFACE UTILITY ENGINEERING (SUE) DOES NOT CONSTITUTE A DESIGN. THE INFORMATION ON THIS PROFILE IS FOR THE OWNER(S) OR GOVERNMENTAL AGENCIES OF THE RESPONSIBILITY OF NOTIFYING US NORTH PRIOR TO STARTING ANY EXCAVATION. CARDNO DOES NOT HOLD ANY LIABILITY OR BE HELD RESPONSIBLE FOR DAMAGES TO UTILITIES CAUSED BY OTHERS.

<p>DRAWN BY: Ian Wilson/Robert Heidrick</p> <p>CHECKED BY: Robert Heidrick</p> <p>DATE: 7/11/2011</p> <p>DATE: 7/11/2011</p>	<p>PROJECT NO. CA095400-00</p> <p>DATE: JULY 11, 2011</p> <p>SHEET NO. 1 OF 1</p>	<p>LOCATION: McAllen Flood Bridge over the Calaveras River and east of Holman Road</p> <p>CITY/STATE: Stoodon, CA</p>
<p>701 University Avenue, Suite 200 Stoodon, CA 95925 www.cardno.com - 916.862.2100</p>		<p>LIC. NO. _____ DATE _____</p>
<p><b>McAllen Road Existing Gas Line</b></p>		



SAN JOAQUIN COUNTY

**FLOOD CONTROL & WATER  
CONSERVATION DISTRICT**P. O. BOX 1810  
1810 EAST HAZELTON AVENUE  
STOCKTON, CALIFORNIA 95201  
TELEPHONE (209) 468-3000  
FAX NO. (209) 468-2999THOMAS M. GAU  
DIRECTOR OF PUBLIC WORKS/  
FLOOD CONTROL ENGINEER  
(INTERIM)

March 23, 2011

The Central Valley Flood Protection Board  
3310 El Camino Avenue  
Sacramento, California 95821Attention: Central Valley Flood Protection Board  
Floodway Protection SectionSUBJECT: CENTRAL VALLEY FLOOD PROTECTION BOARD PERMIT APPLICATION  
OF PACIFIC GAS AND ELECTRIC COMPANY, ASSESSOR'S PARCEL  
NOS. 132-030-01 AND 132-020-03, BORING UNDER CALAVERAS RIVER

Gentlemen:

Reference is made to the Central Valley Flood Protection Board Permit Application of Pacific Gas and Electric Company to bore a six-inch gas line under Calaveras River.

The project is located at McAllen Road and Calaveras River in San Joaquin County, in Sections 24 and 25, Township 2 North, Range 6 East, Mount Diablo Base and Meridian, San Joaquin County Assessor's Parcel Nos. 132-030-01 and 132-020-03.

The San Joaquin County Flood Control and Water Conservation District (District) has reviewed the Central Valley Flood Protection Board Permit Application of Pacific Gas and Electric Company and endorses the project subject to the following conditions:

1. The District shall not be responsible for the maintenance of the facilities specified in this Permit.
2. The District shall not be held liable for damage(s) to the permitted encroachment(s) due to the District's operation, maintenance, flood fight, inspection, or emergency repairs.
3. The Permittee or successors-in-interest shall be responsible for the modification or possible removal of the facilities, as requested by the District, if required for any future flood control plans at the applicant's sole cost and expense.
4. The Permittee shall be liable for any damage to Calaveras River that may occur as a result of this project.
5. The project shall be constructed in accordance with the plans dated August 30, 2010, submitted with the undated application. Any revisions to the project will require the submittal of the revised plans to the District for review and approval.
6. No work shall be allowed in the Calaveras River channel between November 1st and April 15th without prior approval of the Central Valley Flood Protection Board and the District.
7. The Permittee or successors-in-interest shall keep the encroachment(s) properly maintained in accordance with applicable current or future local, state and federal standards.



The Central Valley Flood Protection Board  
PACIFIC GAS AND ELECTRIC COMPANY  
PERMIT APPLICATION

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8. There shall be a minimum of ten feet of cover between the bottom of channel and the water line bore casing.
9. If the gas line is abandoned it shall be grouted. Prior to grouting, provide notice to the District for inspection of the grouting
10. The Permittee shall restore the Calaveras River invert and banks to the condition that existed prior to commencement of work.
11. Backfill material, within the channel or within 50 feet of the top of bank, shall be placed in four to six inch layers with approved material and compacted to a minimum of 90 percent relative compaction as per ASTM D-1557. Compaction tests by a certified soils laboratory are required to verify compaction.
12. Upon completion of the project, the Permittee shall submit a hard copy and an electronic copy in AutoCAD and pdf format of the as-built drawings to:  
  
San Joaquin County Flood Control and Water Conservation District  
1810 East Hazelton Avenue  
Stockton, California 95205  
and to:  
San Joaquin Area Flood Control Agency  
22 East Weber Avenue  
Stockton, California 95202
13. The portal and outlet of a tunnel, jacking, or boring must be a minimum distance of 50 feet landward from the bank hinge point.
14. District approved visible markers shall be installed and maintained by the Permittee to identify the location of the buried conduits (see Enclosure).
15. Should significant future damage to, abandonment or removal of, an existing encroachment covered by the permit occur, it shall not be repaired or replaced without prior approval of the District. Any replacement shall be brought into conformance with applicable District standards and permit requirements in effect at the time, including type and location.
16. In the event of a leak, the Permittee shall turn off the gas within two hours of being notified by the District, Central valley Flood Protection Board, or the California Department of Water Resources. Repair of the water line shall commence within 24 hours of a repair request from the District, provided all permits and clearances from appropriate agencies, including the Central Valley Flood Protection Board, are obtained. In the event permanent repairs cannot start within 24 hours, the Permittee shall develop and implement an interim plan to prevent damage to, and protect the integrity of, flood control facilities, in coordination with, and to the satisfaction of, the District and the Central Valley Flood Protection Board. Failure to commence repairs within 24 hours of the request, the District will have the repairs made at the expense of the applicant.
17. Access roads shall be kept open for maintenance at all times.

The Central Valley Flood Protection Board  
PACIFIC GAS AND ELECTRIC COMPANY  
PERMIT APPLICATION

- 3 -

18. Backfill material, within the levee or within 25 feet of the levee toe, shall be placed in four to six inch layers with approved material and compacted to a minimum of 90 percent relative compaction as per ASTM D-1557.
19. All valves or blow offs or any other appurtenances shall be located, and clearly marked, a minimum of 25 feet from the landside levee toe of the Calaveras River.
20. Should significant future damage to, abandonment or removal of an existing encroachment covered by the permit occur, it shall not be repaired or replaced without prior approval of the District. Any replacement shall be brought into conformance with applicable District standards and permit requirements in effect at the time, including type and location.
21. Abandoned natural gas pipes that remain in place shall be grouted. Prior to grouting, provide notice to the San Joaquin County Flood Control and Water Conservation District for inspection of the grouting.
22. The portal and outlet of a tunnel, jacking, or boring must be a minimum distance of 25 feet beyond the projected levee slope without an approved stability and seepage analysis

Should there be any questions regarding these comments, please contact me at (209) 953-7617.

Sincerely,



JOHN J. MAGUIRE P.E.  
Engineering Services Manager

JIM:RF:mk  
FM-11C035-M1

Enclosure