COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: PS-1301539
Date Issued: 06/10/2013
Exp. Date: 08/01/2013
Project No: PWP730052
Quad: NW
Extended To: 05/15/2014
UE/CR/PM NO:30843913

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - SAN RAMON
6121 BOLLINGER CANYON ROAD
SAN RAMON, CA 94583

RIDER # 1
Date 11/22/13

Encroachment Type:

Trench	Traffic Control Devices		

Location:
BOTH SIDES OF DAVIS RD, 700' N/O UPRR TRACKS

In compliance with your request of 06/10/2013, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:
Traffic Control Per MUTCD*****See Attached Special Conditions*****

FORMS: SS/WW, R-29 | Trench Cutting | Policy

Est. Permit Fee: $520.60

THOMAS M. GAU, Director
Department of Public Works

By: _____
Permit Section

WHITE - Permittee
GOLDENROD - PWD Central File
YELLOW - Field Inspection
PINK - Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:
   STREETS AND HIGHWAYS CODE
   1. Division 1, Chapter 3
   2. Division 2, Chapter 2, Section 942
   3. Division 2, Chapter 4, Section 1126
   4. Division 2, Chapter 5.5 and Chapter 6

   SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.

4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.

5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.

7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.

8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.

9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.

10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.

11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.

12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.

13. The Permittee is responsible for the preservation of survey monuments within the work herein permitted. If any are disturbed, the Permittee is required to tie out each location and re-establish them after completion of work, using a licensed land surveyor. A corner record must be filed in accordance with state law for any re-set monuments.

SPECIAL CONDITIONS FOR PG&E-DAVIS RD. ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.

2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.

3. Residents and businesses shall be notified in writing, as approved by the County, 48-hours in advance of any impacts to their access.

4. Any areas where parking is to be restricted shall have signs noticing the time period placed at least 48 hours in advance of the work.

5. Existing fences shall not be removed without written consent signed by the property owner and submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials at the edge of the right-of-way.

6. No trench cutting of County roads shall occur between November 1 and March 31 without prior authorization by the County.

7. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, unless authorized by the County.

8. PG&E shall temporarily pave the Davis Road crossing with hot mix until after April 1, 2014, then PG&E shall re-pave the Davis Road crossing with final paving requirements to comply with the conditions of the encroachment permit. (See attached email).

9. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.

10. The permittee is responsible for any Survey Monuments disturbed by this project and shall file a corner record to reestablish them using a Licensed Land Surveyor.

11. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by PG&E. PG&E shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at PG&E's expense. (Streets and Highways Code 1463)

12. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

13. Length of open, unbackfilled trench shall be limited to a total maximum length of 250 linear feet during working hours.

14. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.

15. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.

16. The contractor shall use San Joaquin County Standard R-29 when backfilling trenches within the County right-of-way.

17. Temporary pavement shall be provided for all trench areas within three days of pavement removal or by Friday of each week, whichever is more restrictive.

18. Final trench paving will also be required to be placed when interruptions or delays of the work exceed two (2) weeks.

19. Roadway areas subject to pavement cuts shall receive a 0.12-foot asphalt concrete overlay from the centerline (or lane line) to the edge of the travelled way. If the pavement is disturbed on both sides of the centerline (or adjacent lane), then the entire roadway (or affected lanes) shall be resurfaced. (See attached Trench Cutting Policy for more details) All pavement conforms shall be ground to provide a flush surface. Contractor shall grind and overlay within 10-working days of permanent trench paving. Shoulder areas shall be brought up to the finish grade as directed by the County.

20. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.

21. Shoulder backing shall be backed with Class II Aggregate Base from edge of pavement a minimum of 4-inches thick by 4-foot wide.

22. School buses shall be passed through the work zone with minimal delays.

23. Above ground ARV boxes and other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible and if the location either meets AASHTO Clear Zone guidelines or is protected by an existing obstruction such as a tree or utility pole. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.

24. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.

25. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.

26. The contractor shall not conduct construction operations in rain or heavy fog conditions.

Scott Cooper

From: Timothy R. Callahan
ent: Friday, November 22, 2013 10:22 AM
To: Scott Cooper
Subject: FW: FW: Permit 1301539

From: Ben Kimball [mailto:ben.kimball@e2.com]
Sent: Friday, November 22, 2013 10:17 AM
To: Jennings, Chris; Timothy R. Callahan
Cc: William Lawson; Soares, Norman; Daryl Visser; Potter, Ted; Angus; Aikawa, Mark; Tim Kashuba; Prieto, Ramona; Dylan George; Nunez, CJ; Kimball, Ben
Subject: Re: FW: Permit 1301539

William,

I am the Project Manager of the pipeline project in question. I just spent some time in conversation with Tim at the front counter. It was decided I needed to write an email stating PG&E's position and propose a solution to the extension of the encroachment permit on my R-007, L-108_1, 24" pipeline replacement project between 8-Mile Road and Armstrong Rd. I have included my Construction Manager, Contractor, PG&E's Encroachment Permitting Department, my direct manager and work stream manager, as well as Dylan George, PG&E's main conduit for contact with San Joaquin County on this email.

My goal is to make everyone aware of what I am committing PG&E to doing. It's no secret that my Project got off to a late start, with the delay primarily stemming from private land owners wishing us to start after harvest. Our actual start date was October 25. San Joaquin County does not allow paving from Nov. 1st to April 1st. PG&E did not have enough time to trench across Davis Rd. and restore it before the Nov. 1st deadline.

I am requesting San Joaquin County extend the encroachment permit on this project through the end of April, 2014. This will allow PG&E to install and activate the new 24" pipeline by Dec 20th. Thereby fulfilling its promise to the CPUC. PG&E will direct our Contractor to "temporarily" pave the Davis Rd. crossing with hot mix, knowing fully that San Joaquin County will not recognize this paving as final. PG&E will re-pave the Davis Rd. pipe crossing after April 1st, 2014 to comply with the conditions of the encroachment permit that no paving is to occur between Nov. 1st and April 1st. Only after the "final" paving of Davis Road, in April, will PG&E seek to "sign off" the encroachment permit.

Please feel free to contact me with any questions at;

707-207-5498.

I will stay locally, to Stockton, today in the hope we can resolve the issue today. Please let me know if it's possible to do so.

Thank you for your time and effort with this,

Ben Kimball

On Fri, Nov 22, 2013 at 8:06 AM, Jennings, Chris <CxJz@pge.com> wrote:

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Permit No: **PS-1301539**
Date Issued: 06/10/2013
Exp. Date: 08/01/2013
Project No: PWP730052
Quad: NW

UE/CR/PM NO:30843913

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - SAN RAMON
6121 BOLLINGER CANYON ROAD
SAN RAMON, CA 94583

Encroachment Type:

Trench	Traffic Control Devices		

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Special Comments:
Traffic Control Per MUTCD*****See Attached "Special Conditions"*****

FORMS:	SS/WW, R-29	Trench Cutting	Policy

Est. Permit Fee: $520.60

THOMAS M. GAU, Director
Department of Public Works

By: _____
Permit Section

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GOLDENROD	-PWD Central File
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25. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 5/15/13

To: San Joaquin County
Department of Public Works

PG+E - CHRIS JENNINGS
(Applicant Name)

6121 BOLLINGER CANYON RD 1ST FLOOR
(Mailing Address)

SAN RAMON CA 94583
(City, State, Zip Code)

925 324 5219
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	730052-10	REF #	
APN		CR #	
EXP. DATE	8/1/13		
VALID	6/10/13 TO 8/1/13		DRIVEWAYS:
STREET	DAVIS RD.		*
AREA	LODI	QUAD NW	*
TYPE	Trenching, Traffic Control Devices		
FORMS	35/uw, Trench Cutting Policy		
NOTES			

Sketch (Detailed plans may be submitted)

DETAILED TRAFFIC CONTROL PLAN ENCLOSED

PG+E PM#

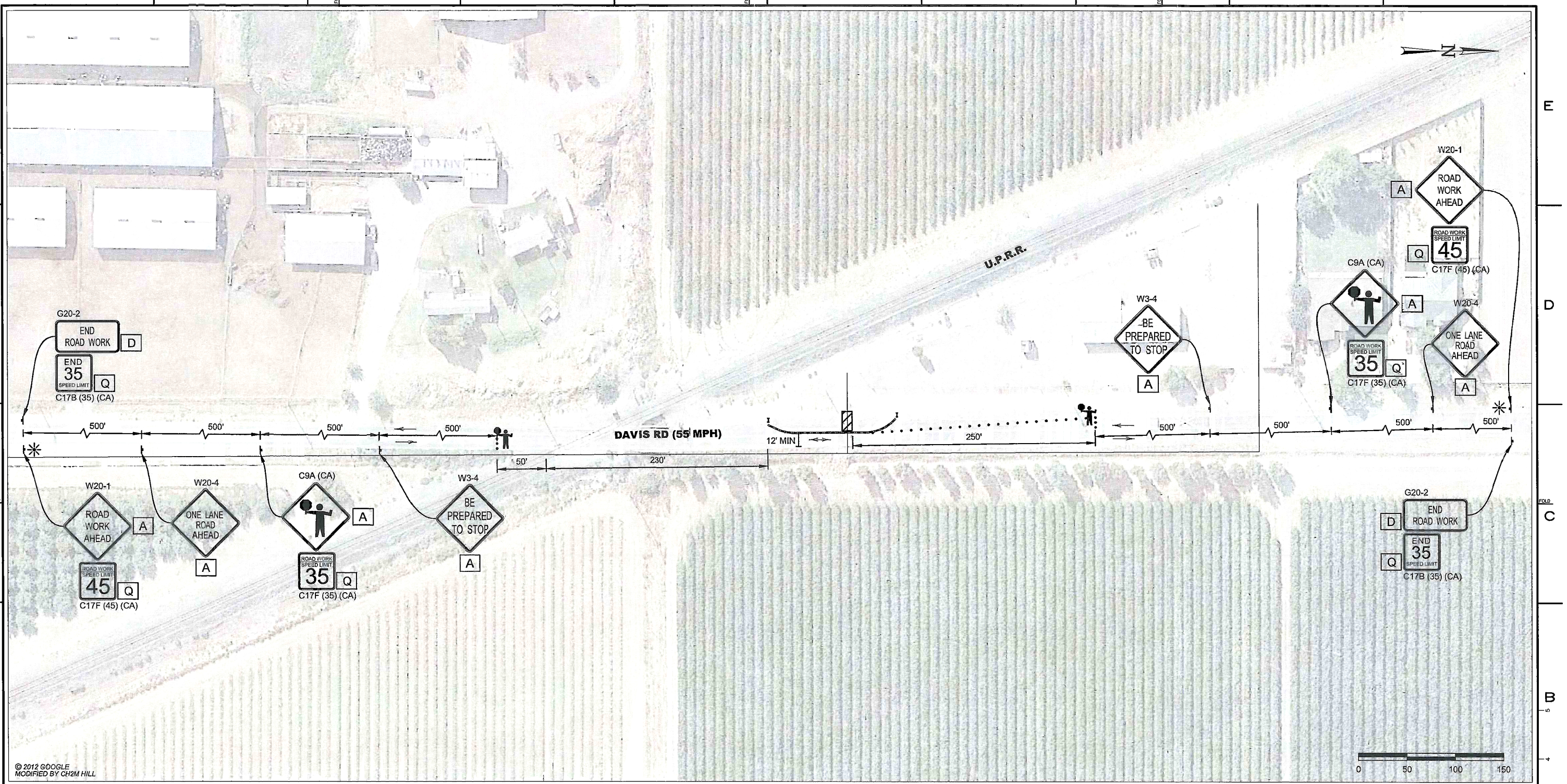
The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way ~~on the~~ ACROSS ~~side of~~ DAVIS ROAD approximately 700 (feet)/mile NORTH of UPRR, by performing the following work (description of work):
- INSTALL NEW PG+E GAS PIPE ACROSS DAVIS ROAD AT TWO LOCATIONS JUST NORTH OF RR TRACKS

Work will commence on or about MID JUNE for approximately 21 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Signature of Applicant - Title

5/15/13
Date



© 2012 GOOGLE
MODIFIED BY CH2M HILL

CONTRACTOR NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK, BY CONTRACTOR.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. Y&C TRANSPORTATION CONSULTANTS ASSUMES NO LIABILITY WHEN CONTRACTOR DOES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN.
10. CITY/COUNTY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN FOR CONSTRUCTION AREAS WHICH ARE NOT COVERED BY THESE TRAFFIC CONTROL PLANS.
12. CONTRACTOR SHALL FURNISH AND INSTALL WATER-FILLED BARRIER AND FENCE AROUND WORK ZONE FOR SAFETY PURPOSE.
13. WHEN WORK ZONE ENCROACHES OVER A DRIVEWAY OR CROSS ROAD, CONSTRUCTION WORK SHALL BE SPLIT INTO TWO STAGES FOR HALF CLOSURE IN ORDER TO MAINTAIN ACCESS.

LEGEND

- • = CHANNELIZER (10' SPACING O.C.)
- = TEMPORARY SIGN POST
- = PLASTIC WATER-FILLED BARRIER (NCHRP 350 TL-2)
- = WORK ZONE
- ✳ = PORTABLE FLASHING BEACON
- → = TRAFFIC FLOW DIRECTION
- I = TYPE III BARRICADE WITH FLASHING YELLOW BEACON

SIGN PANEL SIZE

A	48" X 48"
D	48" X 24"
Q	24" X 24"

REGISTERED PROFESSIONAL ENGINEER — K. DANIEL YAU — No. 24811 — Exp. 3/31/14 — CIVIL — STATE OF CALIFORNIA — 05/16/13

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
0	05/16/13	ISSUED FOR PERMIT	30843913	DOC	SKL	KDY	

REVISIONS

APPROVED BY		
	GM	30843913
	SUPV	
	DSGN	SKL
DOC	DWN	DOC
	CHKD	SKL
SKL	OK	KDY
KDY	DATE	05/16/13
	SCALES	AS SHOWN

L-108_1 R-007 REPLACEMENT PROJECT
TRAFFIC CONTROL PLAN
HALF CLOSURE OF DAVIS RD
MP 37.14 – MP 43.50
SAN JOAQUIN COUNTY, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK, CALIFORNIA

MICROFILM

BILL OF MATL	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO. 1 OF 4	SHEETS
30843913	0

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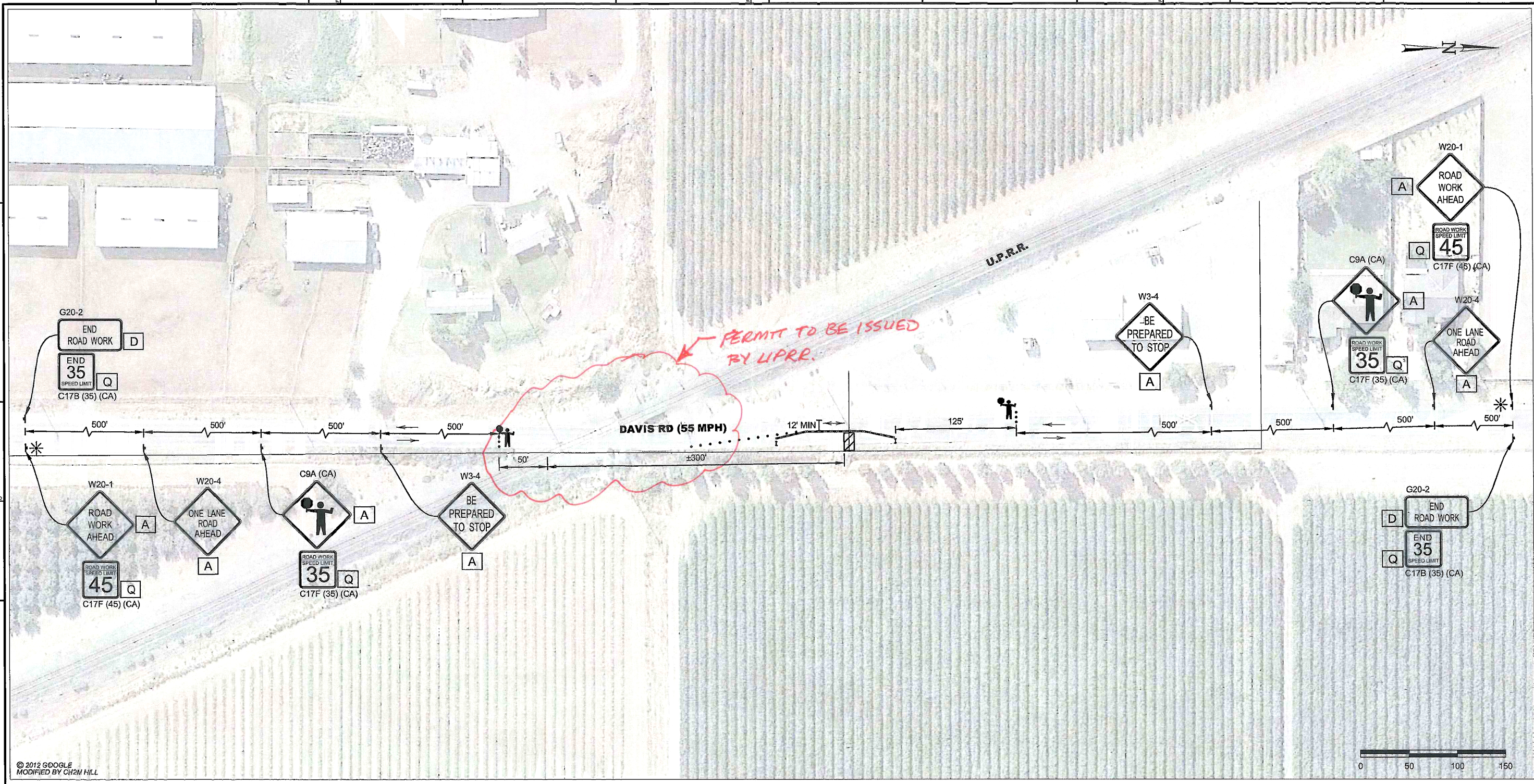

CONTRACTOR NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK, BY CONTRACTOR.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. Y&C TRANSPORTATION CONSULTANTS ASSUMES NO LIABILITY WHEN CONTRACTOR DOES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN.
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13. WHEN WORK ZONE ENCROACHES OVER A DRIVEWAY OR CROSS ROAD, CONSTRUCTION WORK SHALL BE SPLIT INTO TWO STAGES FOR HALF CLOSURE IN ORDER TO MAINTAIN ACCESS.

LEGEND

- • = CHANNELIZER (10' SPACING O.C.)
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- = PLASTIC WATER-FILLED BARRIER (NCHRP 350 TL-2)
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- I = TYPE III BARRICADE WITH FLASHING YELLOW BEACON

SIGN PANEL SIZE

A	48" X 48"
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Q	24" X 24"

REGISTERED PROFESSIONAL ENGINEER — K DANIEL YAU — No. 14611 — Exp. 3/31/14 — CIVIL — STATE OF CALIFORNIA — 05/16/13

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0	05/16/13	ISSUED FOR PERMIT	30843913	DOC	SKL	KDY	

REVISIONS

APPROVED BY	GM	30843913
	SUPV	
	DSGN	SKL
DOC	DWN	DOC
	CHKD	SKL
SKL	OK	KDY
KDY	DATE	05/16/13
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L-108_1 R-007 REPLACEMENT PROJECT
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SAN JOAQUIN COUNTY, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
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MICROFILM	
BILL OF MATL	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO. 2 OF 4	SHEETS
30843913	0

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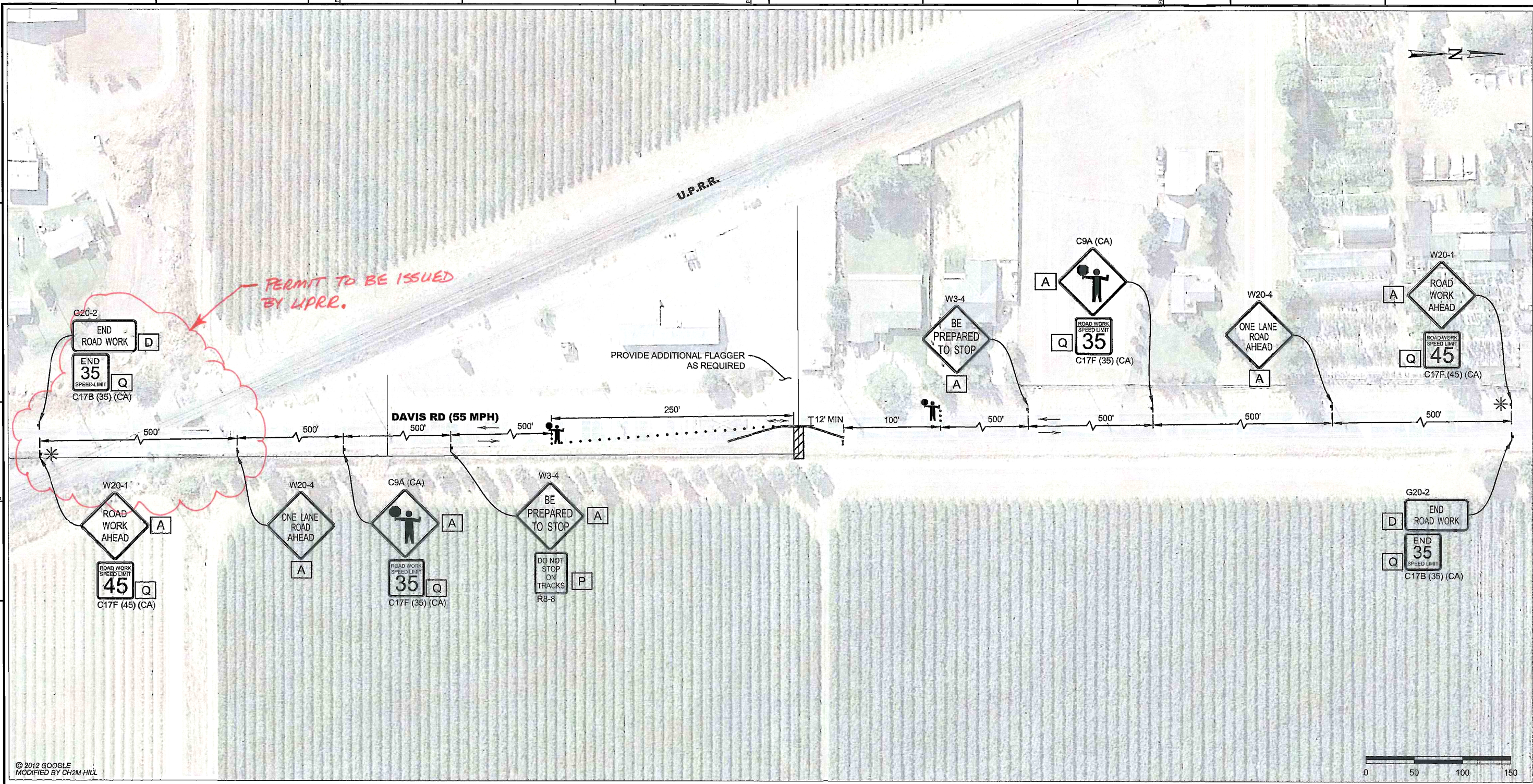

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SIGN PANEL SIZE	
A	48" X 48"
D	48" X 24"
P	24" X 30"
Q	24" X 24"

REGISTERED PROFESSIONAL ENGINEER — K. DANIEL YAU — No. 74611 — Exp. 3/31/14 — CIVIL — STATE OF CALIFORNIA — 05/16/13

MICROFILM

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
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0	12/20/12	ISSUED FOR PERMIT	30843913	DOC	SKL	KDY	

REVISIONS

APPROVED BY		
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SAN JOAQUIN COUNTY, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK, CALIFORNIA

BILL OF MATL	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO. 3 OF 4 SHEETS	
30843913	0

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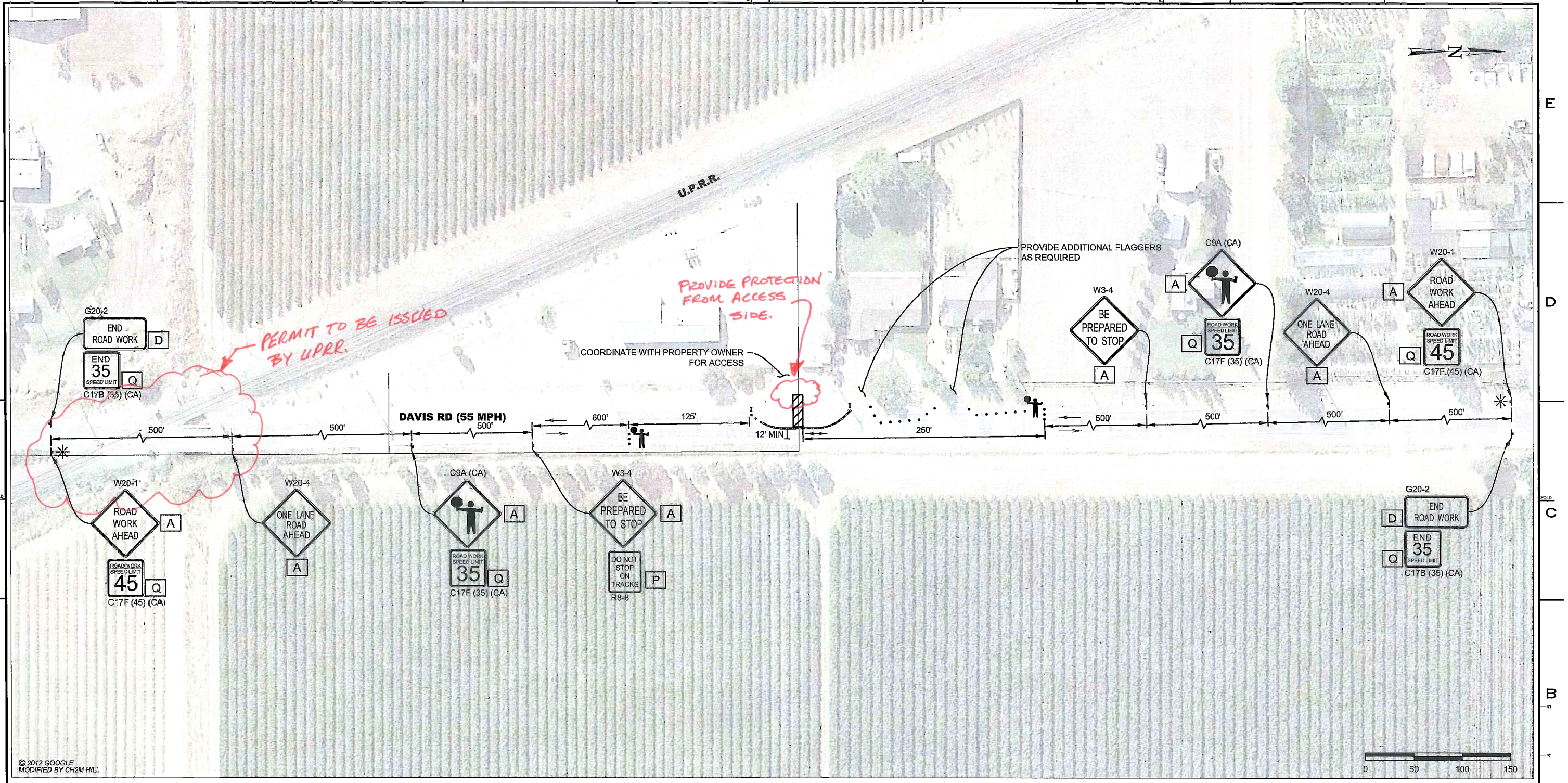

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SIGN PANEL SIZE	
A	48" X 48"
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REGISTERED PROFESSIONAL ENGINEER — K. DANIEL YAU — No. 74611 — Exp. 3/31/14 — CIVIL — STATE OF CALIFORNIA — 05/16/13

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REVISIONS

APPROVED BY		
	GM	30843913
	SUPV	
DOC	DSGN	SKL
	DWN	DOC
	CHKD	SKL
SKL	OK	KDY
KDY	DATE	05/16/13
	SCALES	AS SHOWN

L-108_1 R-007 REPLACEMENT PROJECT
TRAFFIC CONTROL PLAN
HALF CLOSURE OF DAVIS RD
MP 37.14 – MP 43.50
SAN JOAQUIN COUNTY, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK, CALIFORNIA

MICROFILM

BILL OF MATL	
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SHEET NO. 4 OF 4	SHEETS

30843913 | 0

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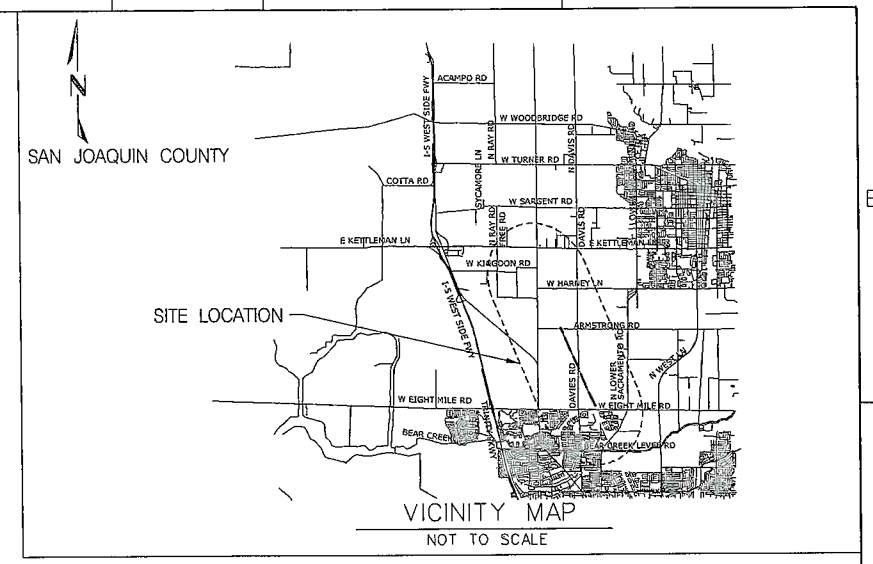
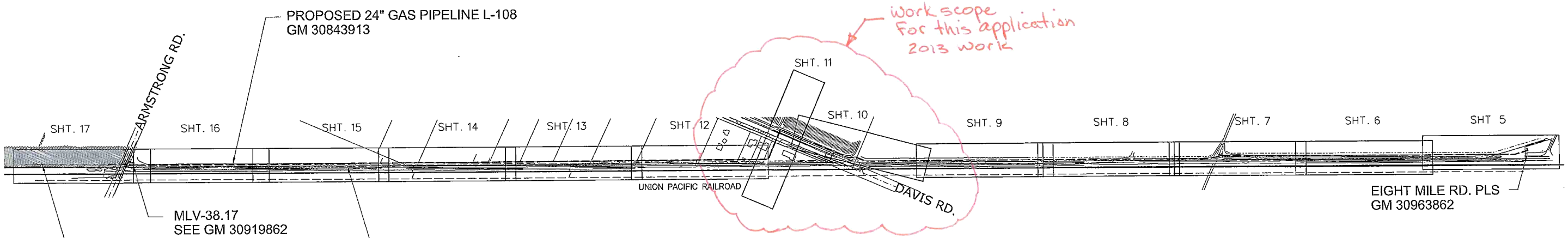
24–inch L–108 REPLACEMENT
MP 37.14 TO MP 38.17
COUNTY OF SAN JOAQUIN

BTU AREA # X02
CP AREA # T-108-C
WALL MAP: 2946, 2869
PLAT: 2946C4, 2946B4, 2946B3, 2946A3, 2869J3, 2869J2
SAN JOAQUIN COUNTY



VICINITY MAP
NOT TO SCALE



Work scope For this application 2013 work

Note:
Work bubbled in red is the work extent under this permit application, 2013 work.

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

SAFETY

SAFETY PLEDGE

I ALWAYS PUT SAFETY FIRST.
I LOOK FOR AND ACT TO RESOLVE UNSAFE SITUATIONS.
I HELP AND ENCOURAGE OTHERS TO ACT SAFELY.

SCHEDULE OF SHEETS

SHEET 1 -- COVER SHEET
SHEET 2-4 -- STAMPS / CONSTRUCTION NOTES
SHEET 5-17 -- PIPELINE CONSTRUCTION DRAWINGS (PLAN AND PROFILE)
SHEET 18 -- BILL OF MATERIALS
SHEET 19-20 -- CONSTRUCTION DETAILS
SHEET 21 -- TYPICAL DETAILS
SHEET 22 -- DEACTIVATION SHEET

REFERENCE DRAWINGS:

385160 ---------- OPERATING MAP
0802402, REV. 3 --- OPERATING DIAGRAM, EIGHT MILE ROAD PLS
30919862 ---------- L-108 MLV-38.17 AND BRIDLE SET
4800919, REV. 2 ---- PIPING-PLAN, EIGHT MILE ROAD PLS
30712773 ---------- L-108 REPLACEMENT MP 38.17 - MP 40.27
GM 30963862 ------ EIGHT MILE ROAD PLS PIG LAUNCHER
381330, SHTS. 21-22- TRANSMISSION PLAT

0 400' 800' 1200'
SCALE : 1"= 400'

NOTE:
WARNING: CONFIDENTIAL, PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS CONFIDENTIAL, PROPRIETARY INFORMATION THAT IS THE SOLE PROPERTY OF PACIFIC GAS AND ELECTRIC COMPANY AND IS INTENDED FOR USE ONLY BY AUTHORIZED PACIFIC GAS AND ELECTRIC COMPANY EMPLOYEES & AGENTS. COPYRIGHT PACIFIC GAS AND ELECTRIC COMPANY.

CIE # 1581-108_1-DC-7000-00 PSRS# 24077

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
03	05-09-13	ISSUE FOR 90% REVIEW	30843913	RP	VK	JR	
02	04-05-13	REISSUE FOR 60% REVIEW	30843913	RP	VK	JR	
01	02-15-13	ISSUE FOR 60% REVIEW	30843913	RP	VK	JR	
00	12-19-12	ISSUE FOR 30% REVIEW	30843913	RP	VK	JR	

REVISIONS

APPROVED BY: JN 30843913; SUPV; DSGN; DWN; CHKD; OK; DATE 11-14-12; SCALES AS SHOWN

COVER SHEET
INSTALL 11,745' OF 24" PIPE
L-108 REPLACEMENT
MP 37.14 - MP 38.17
SAN JOAQUIN COUNTY
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK, CALIFORNIA

MICROFILM
BILL OF MATL SHEET 18
DWG LIST SHEET
SUPSDS
SUPSD BY
SHEET NO. 1 OF 22 SHEETS

30843913 03

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SUMMARY OF PROPOSED WORK:

1. INSTALL APPROX. 11,750 FEET OF 24" STEEL PIPE.
2. CONVENTIONAL BORE AT ARMSTRONG ROAD.
3. TRENCH AND BACKFILL.
3. HYDROTEST NEW MAIN LINE.
4. RETIRE APPROX. 11,750 FEET OF 16" STEEL PIPE.
5. INSTALL 22 PIPELINE MARKERS.
6. INSTALL 10 ETS/CATS STATIONS.

CONTACT INFORMATION:

T&R SUPERVISOR	DAVID DURHAM (925) 383-6468
CONSTRUCTION SUPERVISOR	NORMAN SOARES (209) 495-7429
PROJECT MANAGER	BEN KIMBALL (925) 459-6063
PIPELINE ENGINEER	WAYNE GILBERT (925) 244-3349
ESTIMATOR / DESIGNER	JED ROLLINS (713) 850-3468
PSEP ENGINEER	DREW KELLY (408) 960-5921
OWNERS ENGINEER	BILL HARRIS (510) 815-4374
LOCAL TRANSMISSION ENGINEER	HALL HACKNEY (925) 737-3258

SEQUENCE OF OPERATIONS

OPERATING MAP #385160

1. INSTALL TWO SEGMENTS OF NEW 24" LINE AND NEW ¾" CONNECTION TO THE REG STATION AT DAVIS ROAD.
2. INSTALL ARMSTRONG ROAD CROSSING BY CONVENTIONAL BORE METHOD.
3. INSTALL TEST LEAD WIRES AND EXTEND THEM TO THE PLANNED TEST STATION LOCATIONS.
4. HYDROTEST NEW LINE. DEWATER, DRY AND CALIPER PIG.
5. CLOSE VALVE V-14 AT EIGHT MILE ROAD PLS AND MLV-38.17 AND V-1 AT ARMSTRONG ROAD TO ISOLATE FIRST SECTION OF PIPE TO BE REPLACED.
6. DEPRESSURIZE AND PURGE GAS FROM THE EXISTING LINE.
7. PERFORM TIE-INS OF NEW 24" LINE NEAR V-14 AT EIGHT MILE ROAD PLS AND AT MLV-38.17 NEAR ARMSTRONG ROAD.
8. PURGE EXISTING LINE WITH NITROGEN GAS: PERFORM DEACTIVATION PROCEDURES.
9. OPEN VALVE V-14 AT EIGHT MILE ROAD PLS AND MLV-38.17 AND V-1 AT ARMSTRONG ROAD AND PRESSURIZE NEW LINE L-108.
10. ALL WELDS THAT HAVE NOT BEEN HYDRO TESTED AND ALL FITTINGS SHALL BE SOAP TESTED AT 100 PSI AND OPERATING PRESSURE.
11. REESTABLISH FLOW IN LINE L-108.
12. CLOSE MLV-38.17 AND V-3 AT ARMSTRONG ROAD AND MLV-42.72 AND V-2 AT TURNER ROAD TO ISOLATE SECOND SECTION OF PIPE TO BE REPLACED.
13. DEPRESSURIZE AND PURGE GAS FROM THE EXISTING LINE.
14. PERFORM TIE-INS OF NEW 24" LINE AT MLV-38.17 NEAR ARMSTRONG ROAD AND M.P 38.18.
15. PURGE EXISTING LINE WITH NITROGEN GAS: PERFORM DEACTIVATION PROCEDURES.
16. OPEN MLV-38.17 AND V-3 AT ARMSTRONG ROAD AND MLV-42.72 AND V-2 AT TURNER ROAD AND PRESSURIZE LINE L-108.
17. ALL WELDS THAT HAVE NOT BEEN HYDRO TESTED AND ALL FITTINGS SHALL BE SOAP TESTED AT 100 PSI AND OPERATING PRESSURE.
18. REESTABLISH FLOW IN LINE L-108.
19. INSTALL PIPELINE MARKERS AND TEST STATIONS.
20. CLEAN UP AND RESTORE CONSTRUCTION ROW.

Installation Tested or Inspected and Noted on Drawing. All Levels Satisfactory per PG&E GS&S 0-16

Qualified Employee _____ Date _____

Corrosion mechanic's signature is required when a CPA boundary is within the scope of the project

ENVIRONMENTAL ISSUES

☐ NONE APPARENT (IF PROJECT DESIGN CHANGES, CONTACT RESPONSIBLE ENGR)

☐ PERMITS ☐ TAILBOARD ☐ OTHER

☐ APPLICANT DESIGN/RESPONSIBILITY (CHECK PERMITS BOX IF PERMIT CONDITIONS APPLY TO PG&E ACTIONS)

BY: _____ Signature, name, (Corporate ID), date

DESIGN & CONSTRUCTION REVIEW FOR INTERNAL CORROSION

DESCRIPTION	ACTION SELECTED	INITIAL	DATE
CORROSION ENGINEER HAS REVIEWED THIS LOCATION AND THERE IS NO KNOWN THREAT OF INTERNAL CORROSION. NO INTERNAL CORROSION DESIGN OR CONSTRUCTION CONSIDERATIONS ARE NECESSARY.			
INTERNAL CORROSION MAY BE A THREAT AND THE CONSTRUCTION DESIGNS HAVE BEEN REVIEWED WITH CORROSION ENGINEERING. DOCUMENTATION OF THE REVIEW AND ACTIONS TAKEN ARE IN THE JOB PACKAGE AND INCORPORATED IN THIS DESIGN.	Record any IC if found	MB	4/19/13

DIRECT BURIAL COATING SELECTIONS
LISTED IN ORDER OF PREFERENCE

MAIN LINE COATING	FBE
MINOR REPAIRS	PROTAL 7200, POWERCRETE J
TIE-IN WELDS	PROTAL 7200, POWERCRETE J
GIRTH WELDS	PROTAL 7200, POWERCRETE J
BUTT WELDED FITTINGS	PROTAL 7200, POWERCRETE J
VALVE ASSEMBLIES	PROTAL 7200, POWERCRETE J
SHORT SEGMENTS OF PIPE	PROTAL 7200, POWERCRETE J
AIR-TO-SOIL TRANSITIONS	DEVGRIP 238, POWERCRETE J
PRESSURE CONTROL FITTINGS BODY	PROTAL 7200
FLANGE	WAX TAPE

BORED COATING SELECTIONS
LISTED IN ORDER OF PREFERENCE

MAIN LINE COATING	ARC APPLIED OVER FBE
MINOR REPAIRS	PROTAL 7200, POWERCRETE J
GIRTH WELDS	PROTAL 7200, POWERCRETE J

NOTES:
1) CONTACT THE RESPONSIBLE PIPELINE ENGINEER TO REQUEST A VARIANCE FROM THE ABOVE COATING SELECTIONS

2) ALL COATINGS ARE TO BE APPLIED IN ACCORDANCE WITH GS&S E-30 AND E-35

LEGEND:

- PROPOSED GAS LINE
- —G/L— EXISTING GAS LINE
- GAS MAIN TO RETIRE
- —E— ELECTRIC LINE
- —T— TELEPHONE LINE
- TIE-IN WELD
- EXISTING TOWER
- (E) ELECTRIC VAULT
- GAS LINE MARKER
- GAS VALVE
- WATER VALVE
- (W) WATER METER
- TREE
- (T) TEL VAULT
- SD STORM DRAIN
- SEWER MANHOLE
- CITY/COUNTY MON
- AS NOTED
- FENCE
- (E) ETS
- TV CABLE TV BOX
- (C) COMM VAULT
- -EP- EDGE OF PAVEMENT
- -FC- FACE OF CURB
- -SD- STORM LINE
- -SS- SEWER LINE
- -GS- GAS SERVICE LINE
- -W- WATER LINE
- (T) TELEPHONE MANHOLE
- T TELEPHONE BOX
- STREET LIGHT BOX
- PG&E PG&E MANHOLE
- MANHOLE
- V GAS VENT
- CATS COUPON AUTOMATED TEST STATION
- ETS ELECTROLYSIS TEST STATION
- R POLE-MOUNTED RECTIFIER
- A DEEPWELL ANODE

"H" PIPELINE HORIZONTAL STA

"P" PIPELINE FOOTAGE

B/M ITEM NO.

(NOTE: B/M ITEM NO. FOR PIPING SHOWN ON PIPELINE STATIONING.)

SAFETY

SAFETY PLEDGE

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I HELP AND ENCOURAGE OTHERS TO ACT SAFELY.

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GIE # 1581-108_1-DC-7001-00 PSRS# 24077

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
03	05-09-13	ISSUE FOR 90% REVIEW	30843913	RP	VK	JR	
02	04-05-13	REISSUE FOR 60% REVIEW	30843913	RP	VK	JR	
01	02-15-13	ISSUE FOR 60% REVIEW	30843913	RP	VK	JR	
00	12-19-12	ISSUE FOR 30% REVIEW	30843913	RP	VK	JR	

REVISIONS

APPROVED BY
JN 30843913
SUPV
DSGN
DWN
CHKD
QX
DATE 11-14-12
SCALES NO SCALE

GENERAL - CONSTRUCTION NOTES
INSTALL 11,745' OF 24" PIPE
L-108 REPLACEMENT
MP 37.14 - MP 38.17
SAN JOAQUIN COUNTY
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK, CALIFORNIA

MICROFILM
BILL OF MATL SHEET 18
DWG LIST SHEET
SUPSDS
SUPSD BY
SHEET NO. 2 OF 22 SHEETS

30843913 03

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LandShade.tbl

POTHOLE TABLE

POTHOLE IDENTIFYING NUMBER	UTILITY TYPE	PIPE DIAMETER	UTILITY OWNER	"H" PIPELINE STATION	DISTANCE LEFT OR RIGHT OF PREFERRED CL	DEPTH OF COVER TO TOP UTILITY	NOTES
PH-1	GAS	16"	PG&E	0+23	0.0' RT.	36"	MOVED TO CORNER OF FENCE ON THE SE CORNER OUTSIDE FENCE WHERE LAUNCHER IS LOCATED.
PH-2	GAS	16"	PG&E	4+06	10.0' RT.	35"	
PH-3	GAS	16"	PG&E	5+07	20.3' LT.	6"	PIPE HAS 6" OF COVER IT IS IN A DITCH THAT LOOKS LIKE FARMER USES FOR IRRIGATION.
PH-4	WATER	54" (72" TO 84" STEEL CASING)	UNKNOWN	26+54	13.3' LT.	20'+	PIPE IS OVER 20' IN DEPTH
PH-5	WATER	54" (72" TO 84" STEEL CASING)	UNKNOWN	26+71	10.1' LT.	20'+	PIPE IS OVER 20' IN DEPTH
PH-6	GAS	16"	PG&E	27+31	10.7' LT.	49"	
PH-7	GAS	16"	PG&E	33+22	10.4' LT.	33"	
PH-8	GAS	16"	PG&E	40+50	9.5' LT.	38"	
PH-9	GAS	16"	PG&E	113+87	15.8' LT.	24"	
PH-10	GAS	¾"	PG&E	114+93	0.0' RT.	71"	3/4" LINE AS MARKED ON LOCATION
PH-11	GAS	6"	PG&E	115+63	3.8' RT.	80"	THIS IS A 6" STEEL LINE ON AN EAST AND WEST AXIS. THIS LINE RUNS ACROSS THE DRIVEWAY THAT LEADS TO THE VINEYARD.
PH-12	GAS	16"	PG&E	116+81	15.2' LT.	22"	7.5' WEST OF PPL C/L IS THE EXISTING MAIN LINE IT CONNECTS TO A VALVE THAT IS THERE SEE PICTURES.
PH-12A	GAS	8"	PG&E	116+82	23.6' LT.	108"	THIS IS A 8" LINE THAT WAS LOCATED 108" IN DEPTH AND IS 6' EAST OF THE VALVE AT THE GIVEN COORDINATES.
PH-13	GAS	16"	PG&E	117+40	0.4' LT.	17"	ED VERIFIED

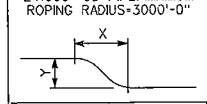
TAP CONNECTIONS STATION LOCATIONS

"H" STA.	PLAN/PROFILE SHEET	TAP DETAIL SHEET	SIZE	DESCRIPTION	WORK REQUIRED	SERVICE ORDER NUMBER
57+55	11	20	¾"	TO REG STATION		N/A

Tap to be installed 2013

ROPING TABLE

MIN DISTANCE REQUIRED TO ROPE AN OFF-SET OF 24.000" OD PIPE. MINIMUM ROPING RADIUS=3000'-0"



Y FT.	X FT.
1.0	110
1.5	134
2.0	155
2.5	173
3.0	190
3.5	205
4.0	219
5.0	245
6.0	268
7.0	290
8.0	310

MAX. WEIGHT OF CONSTRUCTION EQUIPMENT PER HALF-AXLE (LBS)

DEPTH OF COVER (FT)	EXISTING PIPE		
	16" OD X 0.250" WT, 33,000 SMYS	24" OD X 0.375" WT, API-5L X-60, SAWL (MLV-38.17)	16" OD X 0.375" WT, API-5L GR B, SMLS (EIGHT MILE ROAD PLS)
2	1,680	19,500	8,200
3	2,500	37,500	16,500
4	2,760	56,600	25,500
5	2,480	79,000	36,500

NO EQUIPMENT SHOULD BE ALLOWED TO WORK OVER EXISTING PIPELINE WITH DEPTH OF COVER LESS THAN 2 FEET.

PRELIMINARY
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SAFETY

SAFETY PLEDGE

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UNDERGROUND SERVICE ALERT USA
DIAL BEFORE YOU DIG
CALL:1-811

NOTIFIED U.S.A.
DATE TICKET NO. BY

WELDING INSPECTED PER PG&E GAS STANDARD D-40
VISUAL ☐
MAGNETIC PARTICLE ☐
INSPECTOR
DATE

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REVISIONS

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MP 37.14 - MP 38.17
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WALNUT CREEK, CALIFORNIA

MICROFILM
BILL OF MATL SHEET 18
DWG LIST SHEET
SUPSDS
SUPSD BY
SHEET NO. 3 OF 22 SHEETS
30843913 03

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GENERAL REQUIREMENTS:

1. CALL 811 (1-800-227-2600) A MINIMUM OF 2 BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES.

2. UTILITY NOTES
   A. EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS ARE FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROJECT.
   B. THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.
   C. PROSPECTING IS REQUIRED AHEAD OF WORK. ALL OFFSETS OR ROPING WILL NEED TO BE APPROVED BY PG&E ENGINEER, AND ASBUILT DETAILS SHOWN ON PROFILE AND CONSTRUCTION DETAIL SHEETS.

3. ELBOWS AND FIELD BENDS
   A. ALL BENDS ARE SMOOTH FIELD BENDS, EXCEPT WHERE ELBOWS ARE SHOWN. FIELD BENDS SHALL BE MADE IN ACCORDANCE WITH GAS STANDARD A-36 SECTION 4-D. FOR SPIRAL PIPE (SAWH) FIELD BENDS SHALL NOT EXCEED 1° PER INCH OF PIPE DIAMETER.
   B. IN ORDER TO AVOID EXCESSIVE STRAIN ON THE PIPELINE, THERE SHALL BE A MINIMUM SEPARATION OF 5' BETWEEN A ROPED SECTION OF PIPELINE AND ANY ELBOWS OR FIELD BENDS
   C. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE AND SHALL BE CUT TO SUIT FIELD CONDITION.

4. SEPARATION FROM OTHER STRUCTURES
   A. CROSSING UNDERGROUND FACILITIES: THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 24 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE/UTILITY NOT ASSOCIATED WITH THE PIPELINE UNLESS NOTED ON THE DRAWINGS.
   B. PARALLELING UNDERGROUND FACILITIES: THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 5 FEET OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE/UTILITY NOT ASSOCIATED WITH THE PIPELINE UNLESS NOTED ON THE DRAWINGS.

5. RESTORATION AND CLEAN UP
   A. RESTORATION OF PUBLIC STREETS, SIDEWALKS, CURBS, ETC. ABOVE PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE LATEST CITY STANDARDS.
   B WHERE EVER THERE ARE ROW CROPS, THE TOPSOIL SHALL BE REMOVED TO A DEPTH OF 12" AND STORED ON SITE. UPON COMPLETION OF CONSTRUCTION, THE TOPSOIL SHALL BE RESTORED. TAKE CARE TO PREVENT MIXING OF TOPSOIL AND SUBSOIL.

6. EXISTING TIE-IN WELDS SHALL BE IDENTIFIED AND REMOVED IF PRACTICAL.

7. WELDING REQUIREMENTS
   A. ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-22. ALL CANS OR SPOOLS SHALL BE A MINIMUM LENGTH OF ONE PIPE DIAMETER, WHENEVER POSSIBLE.
   B. INSTALL TEST STATIONS WITH THERMITE WELD CONNECTION IN ACCORDANCE WITH GAS T & D MANUAL O-10, O-10.1 AND O-10.2.

8. WELDING VALVES AND FITTINGS
   WHEN 16" AND LARGER VALVES AND FITTINGS ARE WELDED TO EACH OTHER OR TO PIPE, THE JOINT SHALL HAVE A TWO PASS WELD ON THE INSIDE, AS WELL AS THE OUTSIDE WELD, IF THE INTERNAL MISALIGNMENT EXCEEDS 3/32". THIS REQUIREMENT ALSO APPLIES TO SMALLER DIAMETER VALVES AND FITTINGS WHEN IT IS PRACTICAL.

9. HYDROSTATIC TEST REQUIREMENTS
   A. HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.
   B. ALL WELDS THAT HAVE NOT BEEN HYDRO TESTED AND ALL FITTINGS SHALL BE SOAP TESTED AT 100 PSIG AND AT OPERATING PRESSURE.

10. PAINTING AND COATING REQUIREMENTS
    A. ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD E-30. ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.
    B. FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL COATING SELECTIONS TABLE.

COATING REMOVAL:

BEFORE REMOVING THE PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSION BONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:

-FOR ALL NON-EMERGENCY WORK, PRE-1972 PIPE WRAP MUST BE EVALUATED TO DETERMINE IF IT CONTAINS ASBESTOS PRIOR TO REMOVAL.

-FOR EMERGENCY WORK ON PRE-1972 PIPE, ASSUME THE WRAP CONTAINS > 1% ASBESTOS UNTIL THE WRAP CAN BE TESTED.

-OBTAIN SAMPLES OF THE WRAP, AND HAVE SAMPLES TESTED FOR ASBESTOS IN ACCORDANCE WITH RP 4711.

-TEST RESULTS ARE TO BE INCLUDED WITH AS-BUILTS.

-FOLLOW PROCEDURE IN WP 4711-01 FOR REMOVAL OF PIPE WRAP.

CATHODIC PROTECTION NOTES:

1. IN ORDER THAT THE CP DEPARTMENT CAN CONDUCT A REVIEW OF THE INTERNAL CONDITION OF THE PIPELINE, APPROXIMATELY TWO DAYS PRIOR TO THE TIE-IN, NOTIFY BRYON WINGET AT 925-324-3602 OR BILL GRAVES AT 805-423-7924 IN THE CP DEPARTMENT.

2. UPON COMPLETION OF BORINGS, CONTACT BRYON WINGET AT 925-324-2602 OR BILL GRAVES AT 805-423-7924 IN THE CP DEPTARTMENT, TO PERFORM CURRENT DRAIN TESTS ON THE PIPELINE SEGMENT THAT WAS INSTALLED IN THE BORE, PRIOR TO WELDING PIPE ON EITHER SIDE OF THE BORE.

3. INSTALLATION OF THE OMNIMETRIX RECTIFIER REMOTE MONITOR, PRIOR TO ENERGIZING THE RECTIFIER CONTACT BRYON WINGET AT 925-324-2602 OR BILL GRAVES AT 805-423-7924 IN THE CP DEPARTMENT.

2013 work from Sta. 0+00 - Sta. 114+26

DEACTIVATION PROCEDURE FOR EXISTING PIPE

1. GT&D UTILITY WORK PROCEDURE TD 9500P-16 SHALL BE FOLLOWED.
2. THE EXISTING PIPELINE SHALL BE 100% PURGED WITH NITROGEN GAS AS PER STANDARD A-38.
3. AT INTERVALS SPECIFIED IN TD 9500P-16 THE EXISTING MAIN WILL BE CUT AND PLATED. SEE DEACTIVATION SHEET.
4. AT EACH SUCH LOCATION, A PIECE OF PIPE AT LEAST 24" LONG SHALL BE REMOVED. THE OPEN ENDS OF DEACTIVATED MAIN SHALL BE SEALED BY THE MOST APPROPRIATE METHOD OUTLINED IN GT&D UTILITY WORK PROCEDURE TD 9500P-16. BACKFILL MUST BE THOROUGHLY COMPACTED IN PLACE OF THE REMOVED SECTION OF PIPE.
5. SERVICE CONNECTIONS TO BE DEACTIVATED AS INDICATED ON THE DRAWINGS SHALL BE CUT AND PLATED.
6. VALVES AND CURB COCKS MAY BE REMOVED AND SALVAGED IF THE COST OF REMOVAL IS JUSTIFIED. THE OPEN ENDS OF PIPE SHALL BE SEALED AS NOTED ABOVE.

GENERAL NOTES:

NOTE
ALL FIELD CHANGES REQUIRE APPROVAL BY PIPELINE ENGINEER OR PSEP ENGINEER.

TIE-IN AND CLEARANCE PROCEDURE

TIE-IN AND CLEARANCE PROCEDURE TO BE PREPARED AND PERFORMED IN ACCORDANCE WITH THE FOLLOWING WORK PROCEDURES:

1. WP4100-01, HOT AND COLD WORK METHODS FOR NATURAL GAS TRANSMISSION PIPELINE SHUTDOWN AND TIE-IN.
2. WP4100-10, GAS CLEARANCE PROCEDURES FOR FACILITIES OPERATING OVER 60 PSIG.

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PG&E

GIE * 1581-108_1-DG-7001-00 PSRS* 24077

USA UNDERGROUND SERVICE ALERT — CALL BEFORE YOU DIG — CALL:1-811

NOTIFIED U.S.A.
DATE TICKET NO. BY

WELDING INSPECTED PER PG&E GAS STANDARD D-40
VISUAL _____ ☐
MAGNETIC PARTICLE _____ ☐
INSPECTOR _____
DATE _____

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MICROFILM	
BILL OF MATL	SHEET 18
DWG LIST	SHEET
SUPSDS	
SUPSD BY	
SHEET NO.	4 OF 22 SHEETS

30843913 | 03

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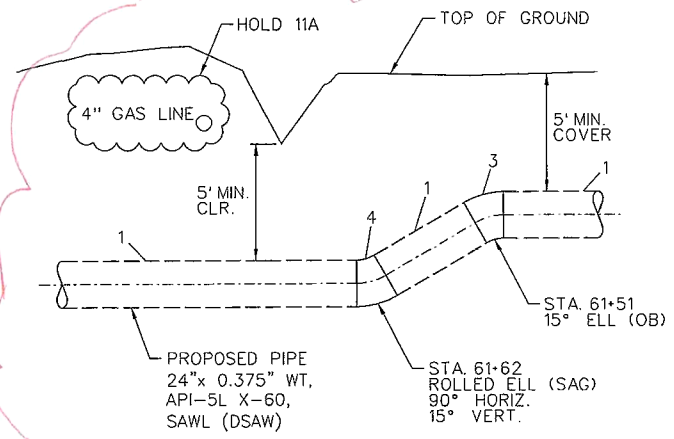
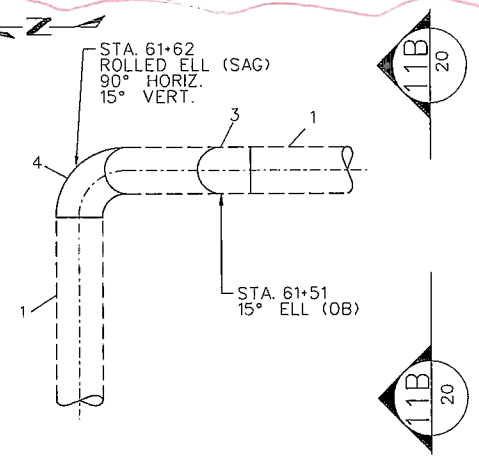


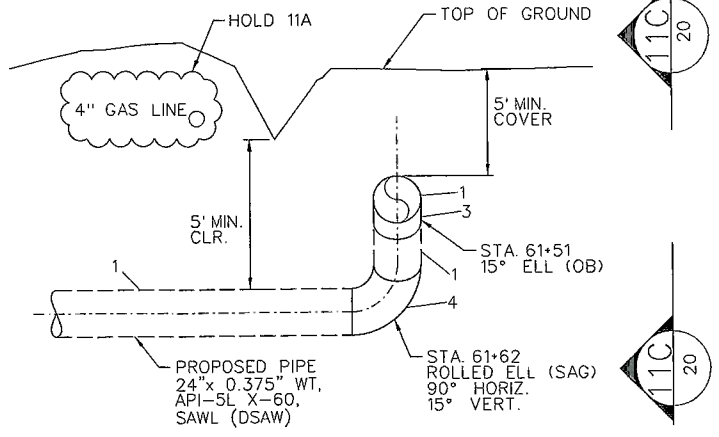
DAVIS ROAD CROSSING
STA. 61+51

DETAIL 11 / NO SCALE



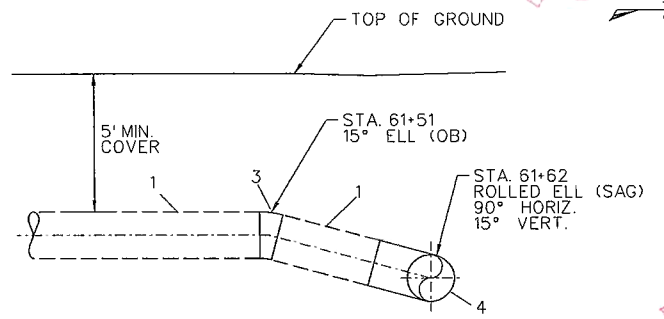
DAVIS ROAD CROSSING
PLAN VIEW
STA. 61+51

DETAIL 11A / NO SCALE



DAVIS ROAD CROSSING
ELEVATION
STA. 61+51

DETAIL 11B / NO SCALE

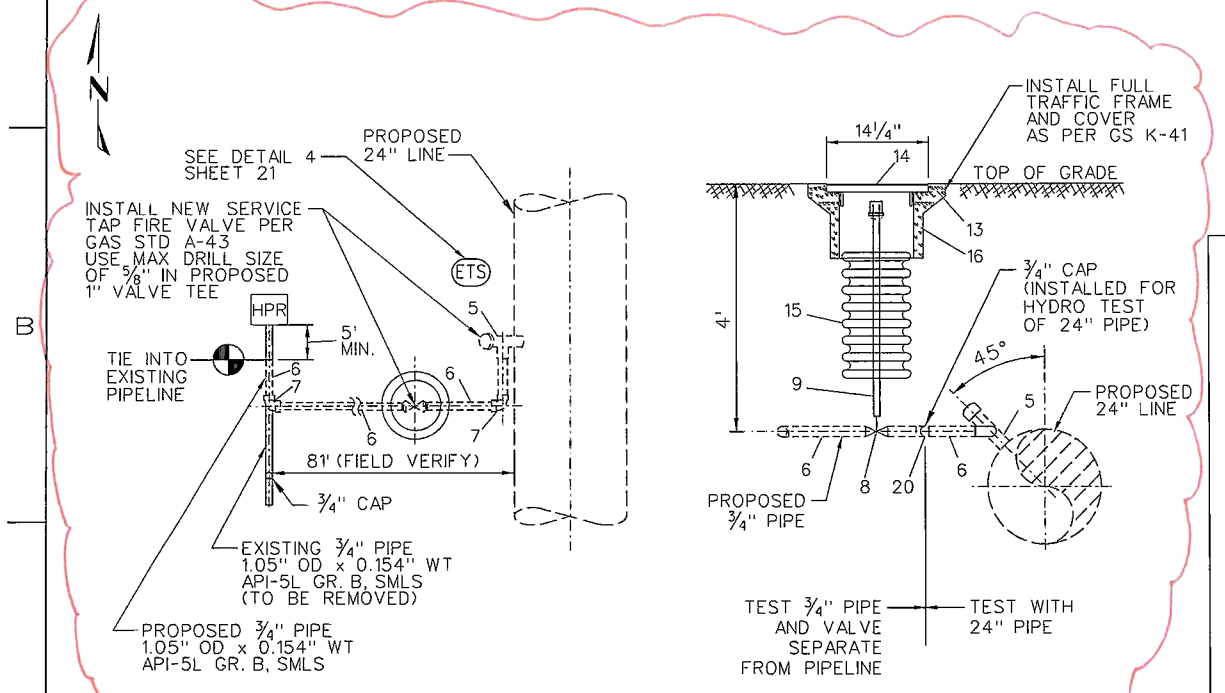


DAVIS ROAD CROSSING
ELEVATION
STA. 61+51

DETAIL 11C / NO SCALE

Davis Road Crossing
Details
2013 Work

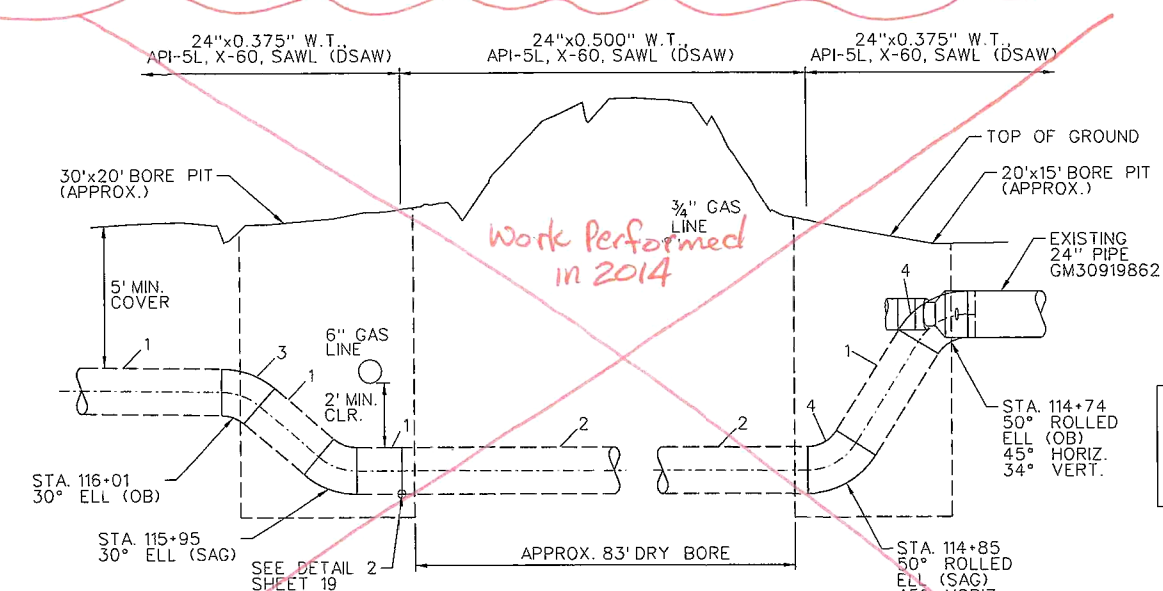
3/4" Tap connection
Detail



PLAN VIEW
STA. 57+55

ELEVATION
STA. 57+55

DETAIL 3 / NO SCALE / 3/4" TAP



Work Performed in 2014

ARMSTRONG ROAD CROSSING
DETAIL 12 / NO SCALE

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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PG&E

JOB NO.	30843913
B/M ITEM NO.	6
DESIGN CRITERIA	
LOCATION CLASS	3 (PER PGE)
DESIGN FACTOR	0.5
FDP	720 PSIG 7.01 % SMYS
MAOP	720 PSIG 7.01 % SMYS
STRENGTH TEST PRESSURE	
MAX.	1125 PSIG 10.96 % SMYS
MIN.	1080 PSIG 10.52 % SMYS
	9240.0 PSIG-90% SMYS
TEST MEDIUM	WATER
PIPE SPEC	API-5L GR B SMLS
O.D.	1.050"
W.T.	0.154"
WELD INSPECTION (GAS STD.D-40)*	
☐RADIOGRAPHIC:	
☐20% MIN. (% OF EACH WELDER'S	
☐100% DAILY WORK)	

*VISUALLY INSPECT 100% OF ALL WELDS THAT ARE NOT RADIOGRAPHICALLY INSPECTED. (THIS REQUIREMENT APPLIES EVEN IF NO RADIOGRAPHIC INSPECTION IS REQUIRED.)

EXIST PIPE SPECS (FIELD VERIFY)
HEADER SIZE: 1.050"
PIPE SPECS: API-5L GR. B, SMLS
WALL THICKNESS: 0.154"
PRESENT MAOP: 412 PSIG
% SMYS @ MAOP: 4.01%
INSTAL JN: 30873856 YEAR: 2012

MAXIMUM ALLOWABLE PRESSURE DURING WELDING (G.S.&S. D-22)

EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING

A) (412 PSIG) WHEN WELDING ON BODY OF THE PIPE, UNLESS,

B) (412 PSIG) WHEN WELDING WITHIN 3" OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.

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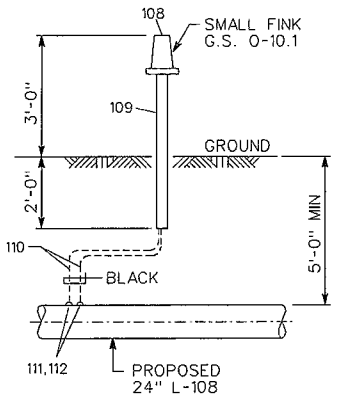
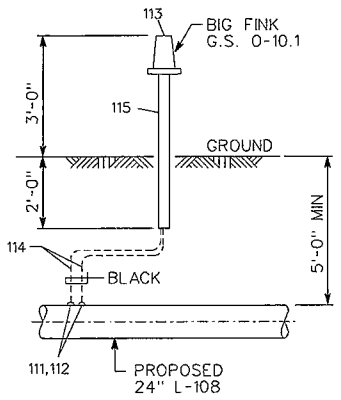


DETAIL 4
NO SCALE

SMALL FINK "TYPE A" ETS
INSTALL TYPE "A" ETS
PER GAS STD 0-10.1

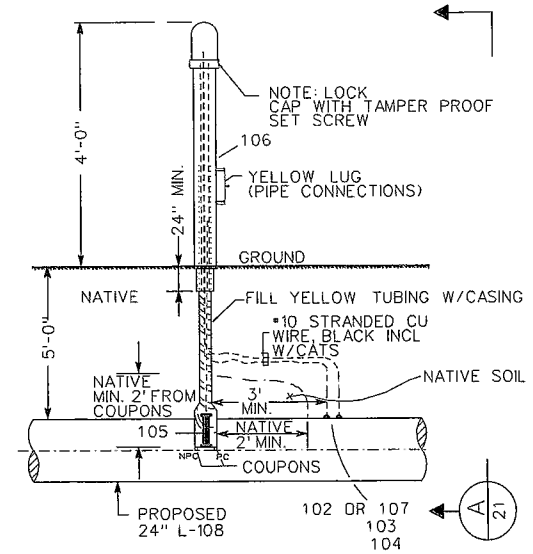
CP STATION LOCATIONS			
"H"	SHEET	TYPE	PG&E GAS STD.
0+00	5	ETS TYPE A	0-10.1
33+00	8	ETS TYPE A	0-10.1
57+07	11	ETS TYPE A BIG FINK	0-10.1
57+55	11	ETS TYPE A	0-10.1
88+00	14	ETS TYPE A	0-10.1
114+00	17	ETS TYPE A	0-10.1

ACRONYM
ETS = ELECTROLYSIS TEST STATION



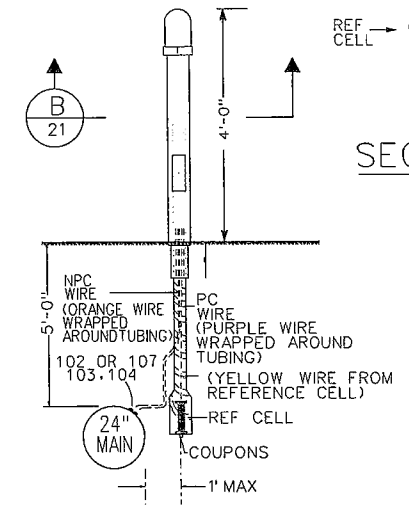
DETAIL 10
NO SCALE

BIG FINK "TYPE A" ETS
INSTALL TYPE "A" ETS
PER GAS STD 0-10.1



NOTES:
1. MONITOR CATS OMNIMETRIX # 504RMFFP10 (PG&E CODE M233259)
2. INSTALL ABOVE GROUND POST NEXT TO P/L MARKER OR POWER POLE OUTSIDE OF DRIVING LANE.
3. COUPONS SHALL BE INSTALLED TO THE DEPTH OF THE CENTERLINE OF THE PIPELINE.
4. COUPONS SHALL BE INSTALLED SUCH THAT EACH COUPON IS EQUIDISTANT FROM THE PIPE.
5. BACKFILL WITHIN 1'-6" (RADIUS) OF THE COUPONS MUST BE NATIVE SOIL COMPACTED TO MINIMUM 95% COMPACTION.

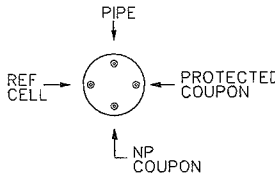
DETAIL 5 — TYPICAL CATS INSTALLATION
NO SCALE — REMOTE PIPE TO SOILS MONITOR



SIDE VIEW

**COUPONS MUST BE INSTALLED IN NATIVE SOIL.
**NATIVE SOIL WITHIN TWO FEET OF ELECTRODE TAMP TO ACHIEVE A MINIMUM 85% COMPACTION.

ELEVATION A 21

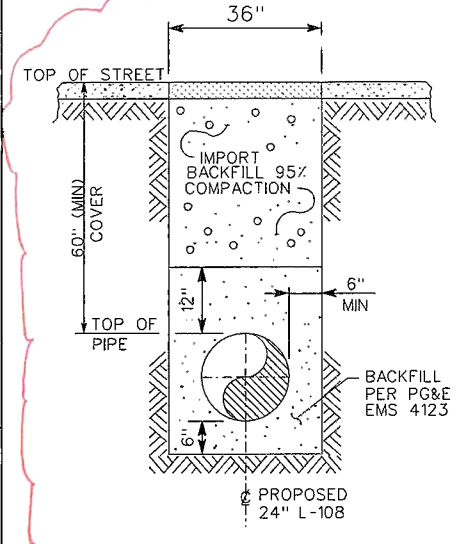


SECTION B 21

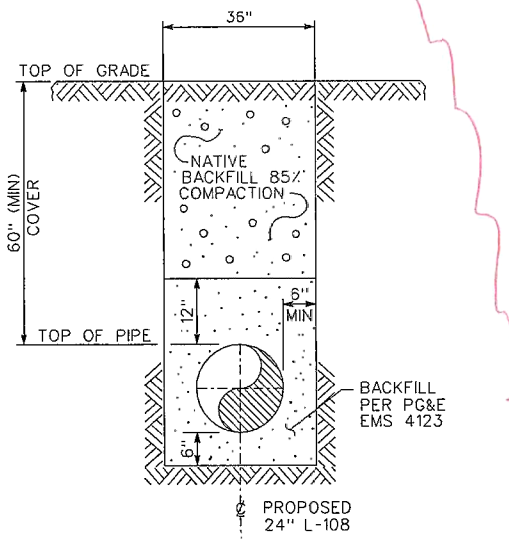
CP STATION LOCATIONS			
"H"	SHEET	TYPE	PG&E GAS STD.
0+00	5	CATS	N/A
54+45	10	CATS	N/A
106+00	16	CATS	N/A
117+07	17	CATS	N/A

ACRONYM
CATS = COUPON AUTOMATED TEST STATION

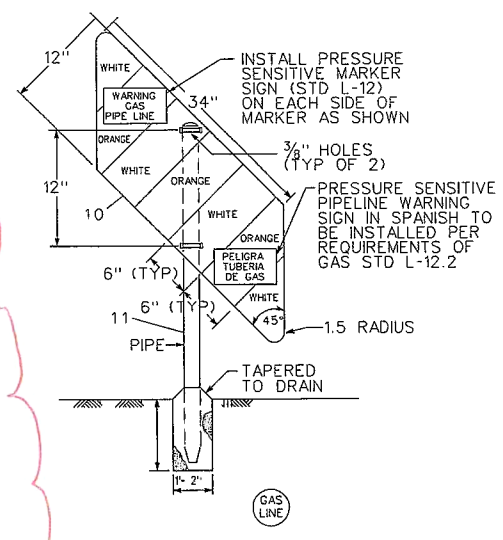
Backfill Details for the two Crossings



DETAIL 6 — TYP TRENCH PAVED AREA
NOT TO SCALE



DETAIL 7 — TYP TRENCH NON PAVED AREA
NOT TO SCALE



DETAIL 8
NO SCALE
PIPELINE MARKER

LINE MARKER LOCATIONS							
"H"	SHEET	TYPE	PG&E GAS STD.	"H"	SHEET	TYPE	PG&E GAS STD.
0+00	5	PL	L-10	57+55	11	PL	L-10
1+57	5	PL	L-10	61+62	11	PL	L-10
1+96	5	PL	L-10	64+17	12	PL	L-10
3+03	5	PL	L-10	77+40	13	PL	L-10
12+00	6	PL	L-10	88+00	14	PL	L-10
25+97	7	PL	L-10	101+20	15	PL	L-10
27+25	7	PL	L-10	106+00	16	PL	L-10
33+00	8	PL	L-10	114+00	17	PL	L-10
46+20	9	PL	L-10	114+74	17	PL	L-10
54+45	10	PL	L-10	114+85	17	PL	L-10
55+26	10	PL	L-10	117+07	17	PL	L-10
55+78	10	PL	L-10	117+40	17	PL	L-10

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

SAFETY

SAFETY PLEDGE

I ALWAYS PUT SAFETY FIRST.
I LOOK FOR AND ACT TO RESOLVE UNSAFE SITUATIONS.
I HELP AND ENCOURAGE OTHERS TO ACT SAFELY.

GE # 1581-108_1-DG-7004-00 PSRS# 24077

USA UNDERGROUND SERVICE ALERT — CALL BEFORE YOU DIG — CALL:811

NOTIFIED U.S.A.
DATE TICKET NO. BY

WELDING INSPECTED PER PG&E GAS STANDARD D-40
VISUAL ☐
MAGNETIC PARTICLE ☐
INSPECTOR
DATE

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NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
03	05-09-13	ISSUE FOR 90% REVIEW	30843913	RP	VK	JR	
02	04-05-13	REISSUE FOR 60% REVIEW	30843913	RP	VK	JR	
01	02-15-13	ISSUE FOR 60% REVIEW	30843913	RP	VK	JR	
00	12-19-12	ISSUE FOR 30% REVIEW	30843913	RP	VK	JR	

REVISIONS

APPROVED BY
JN 30843913
SUPV
DSGN
DWN
CHKD
OK
DATE 11-14-12
SCALES AS SHOWN

PIPELINE - SECTIONS & DETAILS
INSTALL 11,745' OF 24" PIPE
L-108 REPLACEMENT
MP 37.14 - MP 38.17
SAN JOAQUIN COUNTY
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK, CALIFORNIA

MICROFILM
BILL OF MATL SHEET 18
DWG LIST SHEET
SUPSDS
SUPSD BY
SHEET NO. 21 OF 22 SHEETS
30843913 03

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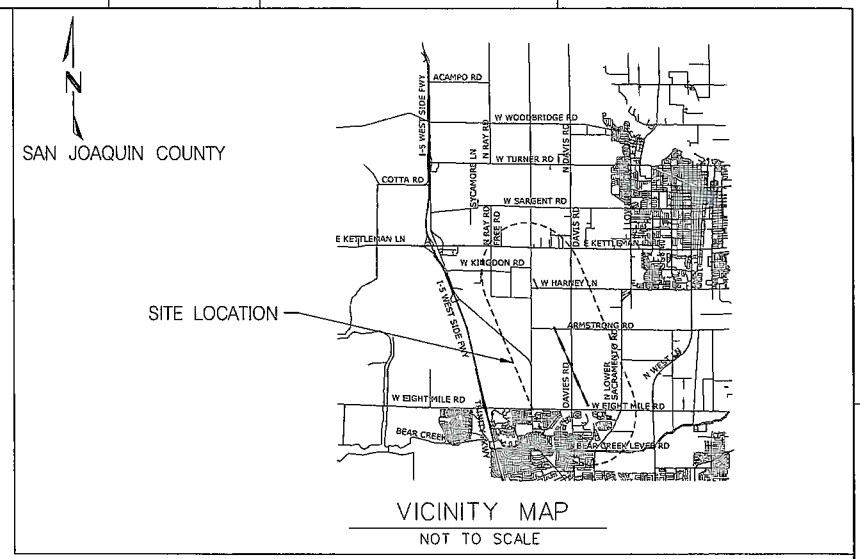
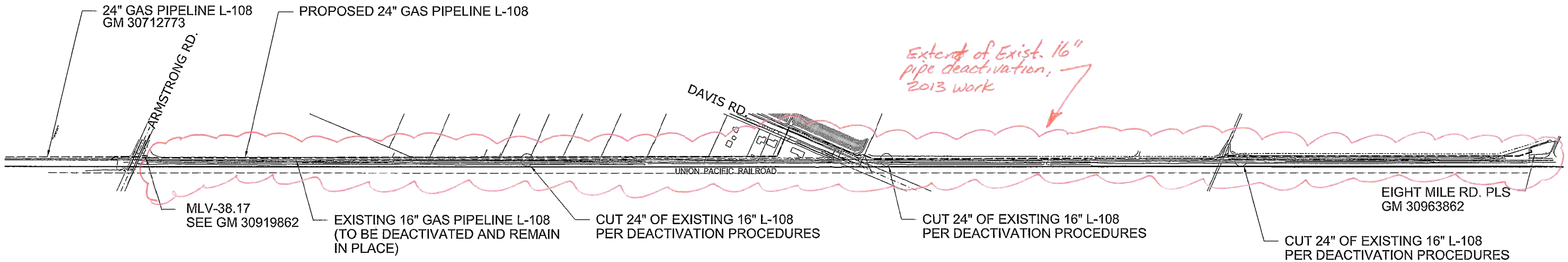
5/8/2013
3:43:24 PM

24–inch L–108 DEACTIVATION
MP 37.14 TO MP 38.17
COUNTY OF SAN JOAQUIN

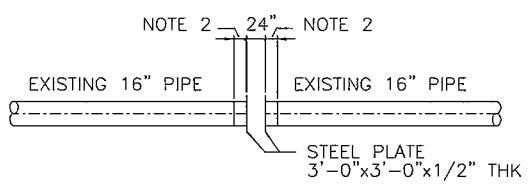
BTU AREA * X02
CP AREA * T-108-C
WALL MAP: 2946, 2869
PLAT: 2946C4, 2946B4, 2946B3, 2946A3, 2869J3, 2869J2
SAN JOAQUIN COUNTY



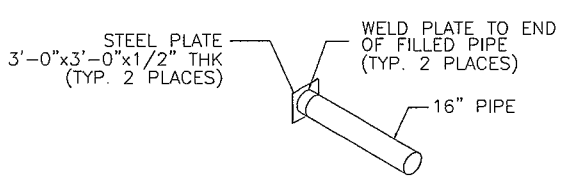
VICINITY MAP
NOT TO SCALE



DEACTIVATION DETAIL



PLAN VIEW
N.T.S.



ISOMETRIC VIEW
N.T.S.

NOTES:
1. REMOVE A MINIMUM OF 24" OF PIPE.
2. PER PG&E WORK PROCEDURE TD 9500P–16

DEACTIVATION PROCEDURE FOR EXISTING PIPE:

1. GT&D UTILITY WORK PROCEDURE TD 9500P–16 SHALL BE FOLLOWED.
2. THE EXISTING 16" GAS MAIN SHALL BE 100% PURGED WITH NITROGEN GAS AS PER STANDARD A–38.
3. AT THE INTERVALS OF APPROXIMATELY TWO BLOCKS OR A MAXIMUM OF APPROXIMATELY 3200 FT., THE 16" MAIN SHALL BE CUT AND PLATED.
4. AT EACH SUCH LOCATION NOTED ABOVE, A PIECE OF PIPE AT LEAST 18" LONG SHALL BE REMOVED. THE OPEN ENDS OF DEACTIVATED MAIN SHALL BE SEALED BY THE MOST APPROPRIATE METHOD OUTLINED IN GT&D UTILITY WORK PROCEDURE TD 9500P–16. BACKFILL MUST BE THOROUGHLY COMPACTED IN PLACE OF THE REMOVED SECTION OF PIPE.
5. SERVICE CONNECTIONS TO BE DEACTIVATED AS INDICATED ON THE DRAWINGS SHALL BE CUT AND PLATED.
6. VALVES AND CURB COCKS MAY BE REMOVED AND SALVAGED IF THE COST OF REMOVAL IS JUSTIFIED. THE OPEN ENDS OF PIPE SHALL BE SEALED AS NOTED ABOVE.

0 400' 800' 1200'
SCALE : 1"= 400'

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I LOOK FOR AND ACT TO RESOLVE UNSAFE SITUATIONS.
I HELP AND ENCOURAGE OTHERS TO ACT SAFELY.

REFERENCE DRAWINGS:

385160 ---------- OPERATING MAP
0802402, REV. 3 --- OPERATING DIAGRAM, EIGHT MILE ROAD PLS
30919862 ---------- L-108 MLV-38.17 AND BRIDLE SET
4800919, REV. 2 ---- PIPING-PLAN, EIGHT MILE ROAD PLS
30712773 ---------- L-108 REPLACEMENT MP 38.17 - MP 40.27
GM 30963862 ------ EIGHT MILE ROAD PLS PIG LAUNCHER
381330, SHTS. 21-22- TRANSMISSION PLAT

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SUPV
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SHEET NO. 22 OF 22 SHEETS
30843913 03

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