



# 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-1802194  
Date Issued: 06/14/2018  
Start Date: 06/14/2018  
Exp. Date: 09/01/2018  
Project No: PWP730052  
Quad: NS

UE/CR/PM NO:31373236

## ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - STOCKTON  
PO BOX 930  
STOCKTON, CA 95201

### Encroachment Type:

Bore (over 12 inch Dia)			
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### Location:

W/S F ST 70' S/O WATERLOO RD

In compliance with your request of **06/14/2018**, 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
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FORMS: SS/WW, R-29

Est. Permit Fee: \$1,446.00

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

KRIS BALAJI, Director  
Department of Public Works

By:   
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 located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.



# APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 5/14/2018

To: San Joaquin County  
Department of Public Works

**PG&E PM 31373236**

(Applicant Name)

4040 West Lane

(Mailing Address)

Stockton, CA 95204

(City, State, Zip Code)

(209) 470 - 2300

(Area Code - Telephone Number)

s6pz@pge.com

(Email Address)

## OFFICE USE ONLY

JOB #	_____	REF #	_____
APN	_____	CR #	_____
EXP. DATE	_____		
VALID	_____ TO _____	DRIVEWAYS:	
STREET	_____	*	_____
AREA	_____ QUAD _____	*	_____
TYPE	_____	*	_____
FORMS	_____		
NOTES	_____		

Sketch (Detailed plans may be submitted)

Crew to call SJ County Inspector at **(209) 953-7421 48 to 72 hours before work starts.**  
When calling, crew shall request "rain clearance" for any work during winter months  
**November through March**

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the **WEST side of F st. approximately 70' SOUTH of Waterloo Rd,**  
by performing the following work (description of work):

**Installation of new deep well anode, rectifier, anode and cathode wires, and G5 frame and covers**  
**Deactivation of existing deep well - after deactivation, backfill will be to County R-29 requirements**

Work will commence on or after 6/1/2018 for approximately 60 days.

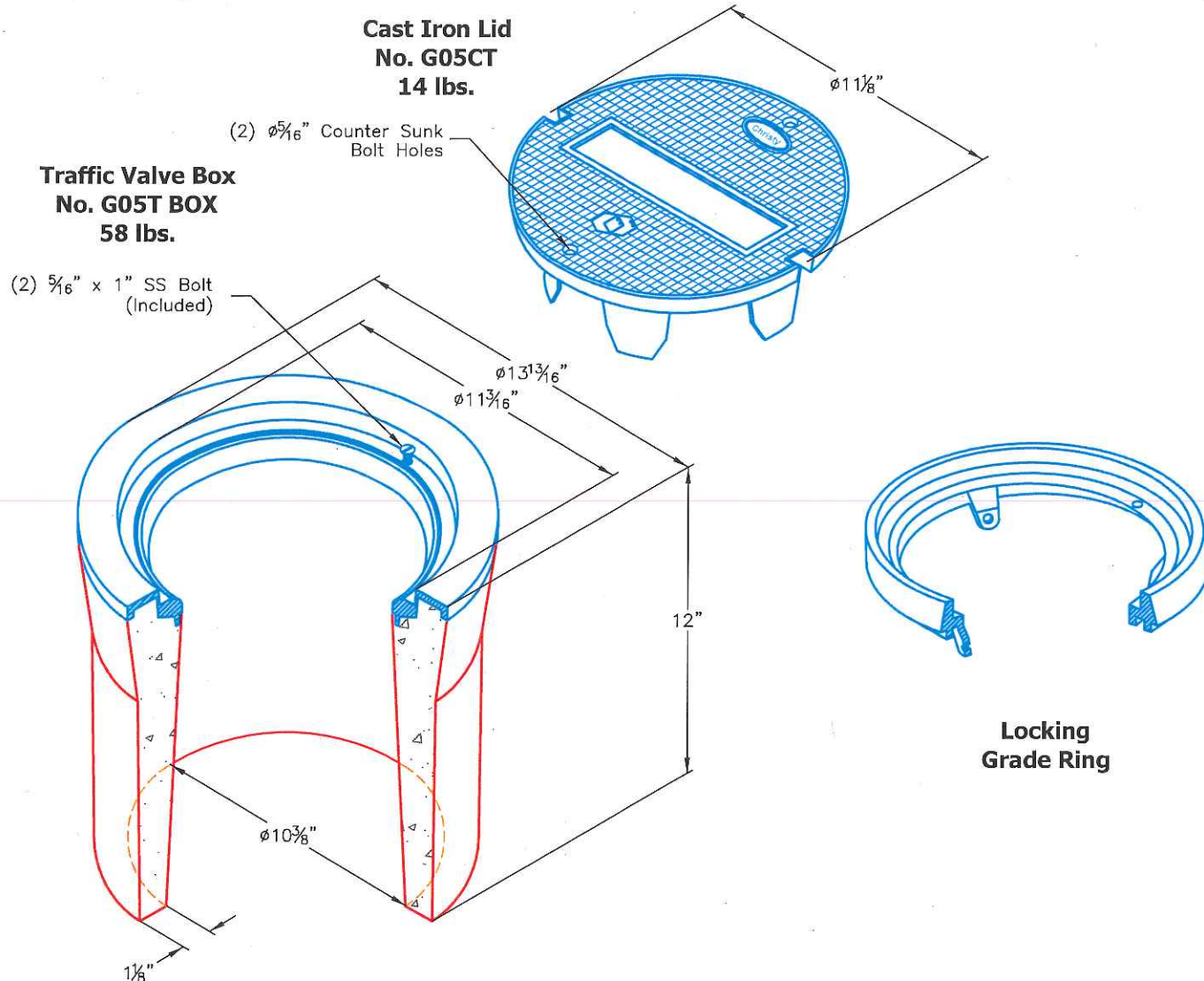
I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

  
Signature of Applicant - Title Permit Facilitator

**5/14/2018**

Date

● Traffic Box is H/20 rated



The largest throat diameter for an box in its size range permits quick, easy valve adjustments. The large throat also makes this unit highly adaptable as a survey monument box. Unique locking grade rings assure permanence and quality of surface grades when streets are re-paved. The carefully engineered cast iron lid and ring includes machined surfaces and bolting features reducing the danger of lid "pop-out" in high traffic areas. Bolt down recommended for high traffic areas. Approximate dimensions and weight shown.

Oldcastle Ordering Code	Item	Approx. Shipping Weight	Description
G05TBOX	BOX	58 lbs.	G05T Traffic Valve Box (10 3/8" I.D. x 12" high) - 36 per pallet- (includes 1/4"-20 x 1", bolts)
G05CT	LID	14 lbs.	Bolt Down Cast Iron Lid
G05X12	EXTENSION	38 lbs.	12" Reinforced Concrete- 36 per pallet
G05TGR10	GRADE RING	10 lbs.	1" High cast iron
G05TGR15	GRADE RING	14 lbs.	1 1/2" High cast iron
G05TGR20	GRADE RING	18 lbs.	2" High cast iron



**Oldcastle Precast®**  
Enclosure Solutions

Phone: (800) 258-4583 Fax: (800) 468-4583  
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## G05T BOX

FILE NAME: G05\_JS0

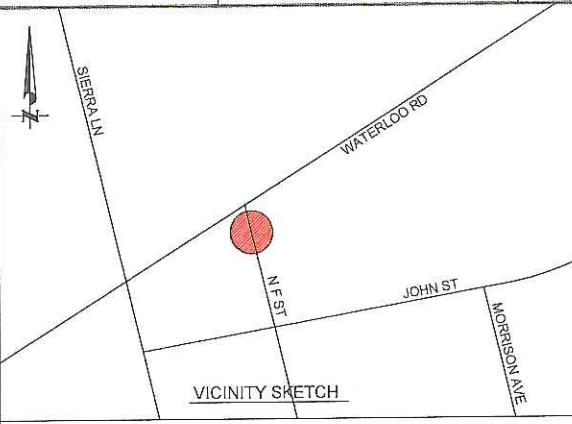
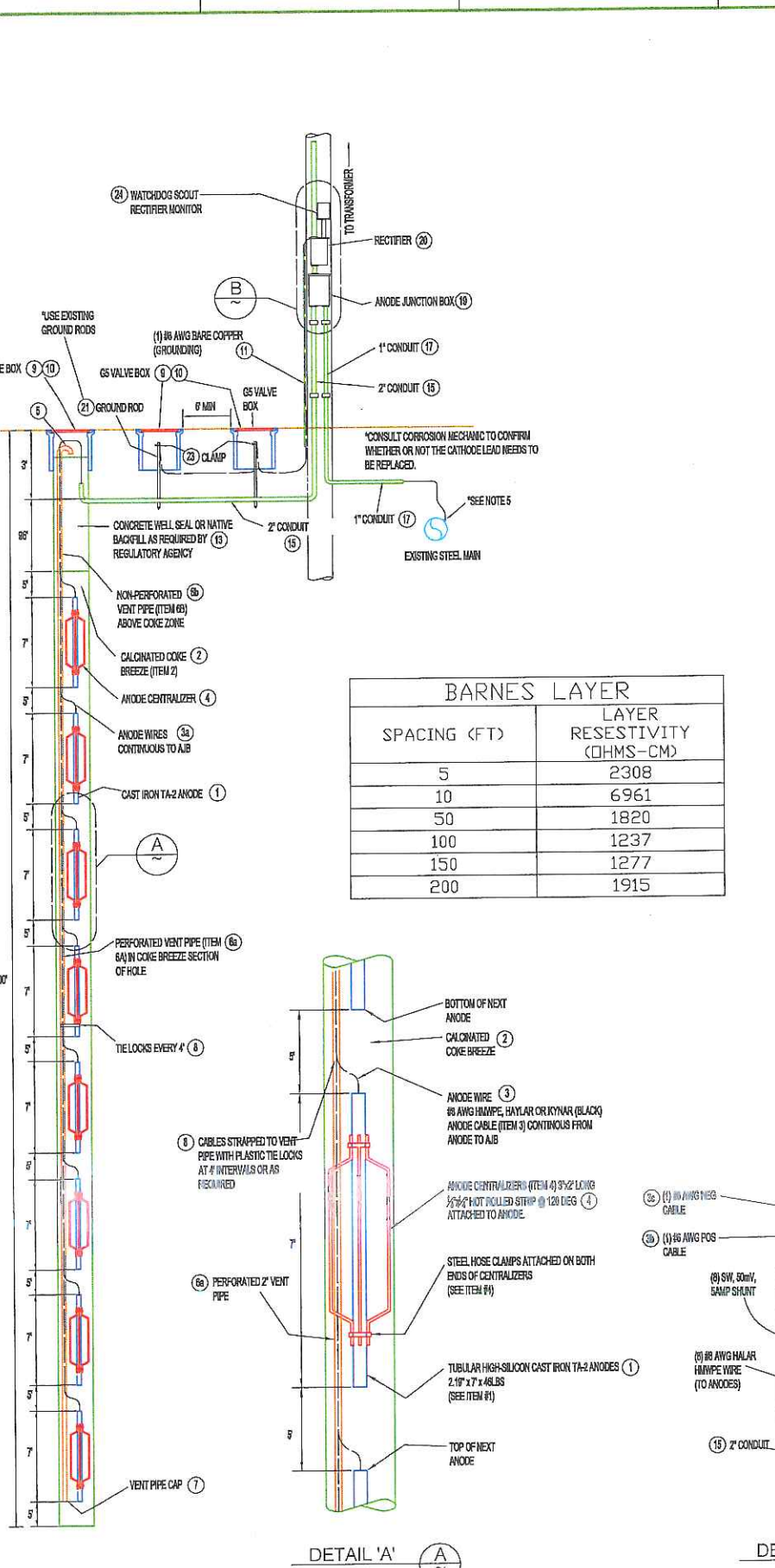
ISSUE DATE: January, 2011

[www.oldcastleprecast.com](http://www.oldcastleprecast.com)

## G05T TRAFFIC VALVE BOX 10-3/8" I.D. x 12"





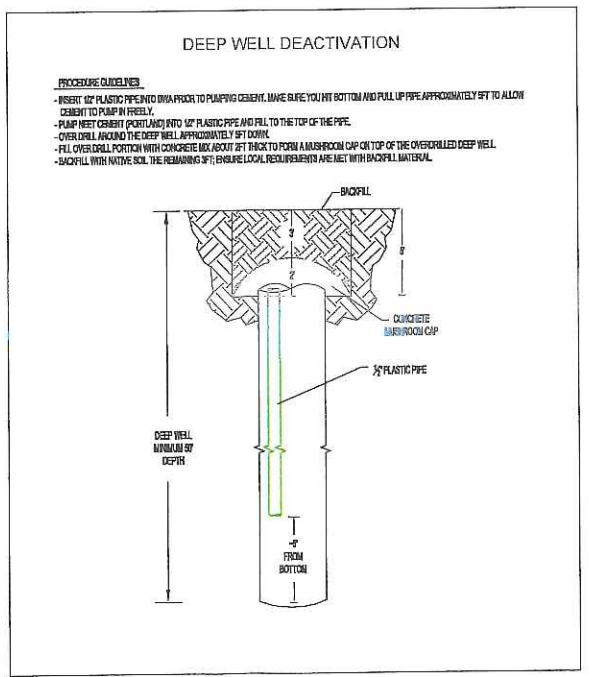


**GENERAL NOTES:**

1. CALL USA AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION (800-227-2600).
2. PG&E TO SECURE ALL NECESSARY EXCAVATION PERMITS.
3. INSTALLATION OF DWA-ND (DEEP WELL ANODE SYSTEM) IS TO BE INSTALLED PER GDS O-13.2.
4. INSTALLATION OF POLE MOUNTED RECTIFIER IS TO BE INSTALLED PER GDS O-11.1.
5. THERMITE WELD (PER TD-4181P-502) OR PIN BRAZE (PER TD-4181P-503) THE CATHODE WIRE TO THE MAIN.
6. ALL EXCAVATION TO BE PERFORMED PER WP4412-03, WP4412-04, WP4412-05. STANDBY REQUIRED IF EXCAVATING WITHIN 5' OF A CRITICAL FACILITY, BORING ACTIVITY THAT CROSSES OR THAT PARALLELS WITHIN 10' OF A CRITICAL FACILITY. CONTACT THE CONSTRUCTION SUPERVISOR.

- LEGEND**
- DW DEEP WELL ANODE (INSTALL)
  - RECTIFIER (INSTALL)
  - ANODE AND CATHODE WIRES (INSTALL)
  - G5 G5 FRAME AND COVER (INSTALL)
  - JOINT POLE (EXISTING)
  - GAS MAIN (EXISTING)

BARNES LAYER	
SPACING (FT)	LAYER RESECTIVITY (OHMS-CM)
5	2308
10	6961
50	1820
100	1237
150	1277
200	1915



**NOTIFIED U.S.A.**

DATE: \_\_\_\_\_

TICKET # \_\_\_\_\_

BY: \_\_\_\_\_

**\*CORROSION TO COMPLETE PRIOR TO SIGN OFF:**

CPI# \_\_\_\_\_

RECEIVED # \_\_\_\_\_

RW# \_\_\_\_\_

(FOR SHIP ASSET REGISTRY UPDATES)

**PRE 1972 PIPE WIRE ANODES STAMP (200905)**

1. Existing to Complete: \_\_\_\_\_

Year Pipe Installed: \_\_\_\_\_

Historical Results: Confirmed Anodes? ☐ Yes ☐ No ☐ Unknown

2. Field Sampling to Complete: LAM ID \_\_\_\_\_

Date Sampled: \_\_\_\_\_

Sample ID: \_\_\_\_\_

3. Rapping to Complete: LAM ID \_\_\_\_\_

Anode Results: ☐ Yes ☐ No ☐ OK ☐ No (RD)

**CATHODIC PROTECTION IN WORK AREA**

ATTENTION FOREMAN:

NOTIFY THE CORROSION DEPT. AT 209-769-0639 24 HOURS PRIOR TO START OF WORK.

Installation Tested or Inspected and Noted on Drawing.

All Corrosion Levels Satisfactory per PG&E Gas Utility Standard TD-43.B.S.

Qualified Employee: \_\_\_\_\_ Date: \_\_\_\_\_

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

Bill of Materials			DWA-ND 200' Deep Well
Item	Description	Mat Code	Quantity
1a	Anodes, 2.2' x 84", HSCI model 2284Z, with 200' Cable Anode #8 KYNAR/HMWPE	M561505	4
1b	Anodes, 2.2' x 84", HSCI model 2284Z, with 250' Cable Anode #8 KYNAR/HMWPE	M561508	4
2	Caloined Petroleum Coke Breeze (50lb bags) (Asbury 21BL)	M561470	50
3a	#8 AWG HMWPE Cable (black)(Anode)	M290401	N/A
3b	#8 AWG HMWPE Cable (black)(Anode)	M290400	2'
3c	#8 AWG - Wire, Electrical, Insulated Copper, 600 V, HMWPE (Cathode)	M290356	25'
4	Anode Centralizer (1 per anode)	M561509	8
5	2" PVC Conduit 90° bend, Schedule 40	M360166	2
6a	Vent Pipe 2" PVC Plastic Well Screen, Perforated Vent Pipe	M561516	100'
6b	Vent Pipe 2" PVC Plastic Well Screen, Non-Perforated Vent Pipe	M561517	100'
7	Cap, 2" Plastic	M561511	1
8	Plastic tie locks	M390993	50
9	Body Concrete Valve Frame (Christy G-5 Valve Frame w/o Cover)	M043271	1
10	Cover Valve Cast Iron Yellow (Christy G5 Cover)	M445213	1
11	Wire, Electrical, Bare Copper, #6 AWG (Grounding), in 1/2" Conduit	M290072	20'
13	Concrete, Class B, Five Sack Mix	M360360	35'
15	2" PVC Conduit Schedule 40, 20' Length	M360166	4
16	2" PVC Conduit 90° Bend Schedule 40	M360305	50'
17	1" PVC Conduit Schedule 40, 10' Length	M017140	1'
18	Tubing Flex (1")	M301516	1
19	AJB - Fiberglass Enclosure w/6 Shunts	M270784	1
20	Rectifier, 20V / 10AMP, VARIAC ESV-B-20-10C	M187013	0
21	Rod Ground, 3/4" x 8'	M360368	12'
22	Conduit, Plastic 1/2" PVC Schedule 40	M187012	2
23	Clamp, Ground Rod, 3/4"	M042141	1
24	Watchdog Scout - Cellular Remote Monitoring Unit		

CO: \_\_\_\_\_

SD: \_\_\_\_\_

NOTE: 113761280

Other: \_\_\_\_\_

SHT: 1 OF 1

REV. 0

PM: 31373236

ENGINEERING AND PLANNING DEPT.

4040 WEST LN

STOCKTON, CA 95204

PHONE: \_\_\_\_\_

FAX: \_\_\_\_\_

PACIFIC GAS AND ELECTRIC COMPANY

EST: L. CASTRO (MCO)

ADE: C. LARUE (CDE)

SUPV: T. NORMAN (TDE)

REP: A. YU (ANY)

PLNR: D. RYAN (DCR)

SCALE: \_\_\_\_\_

DATE: 10/20/18

NS

NO. \_\_\_\_\_

DATE \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

REVISIONS \_\_\_\_\_

FINALLY DEEP WELL ANODE INSTALL

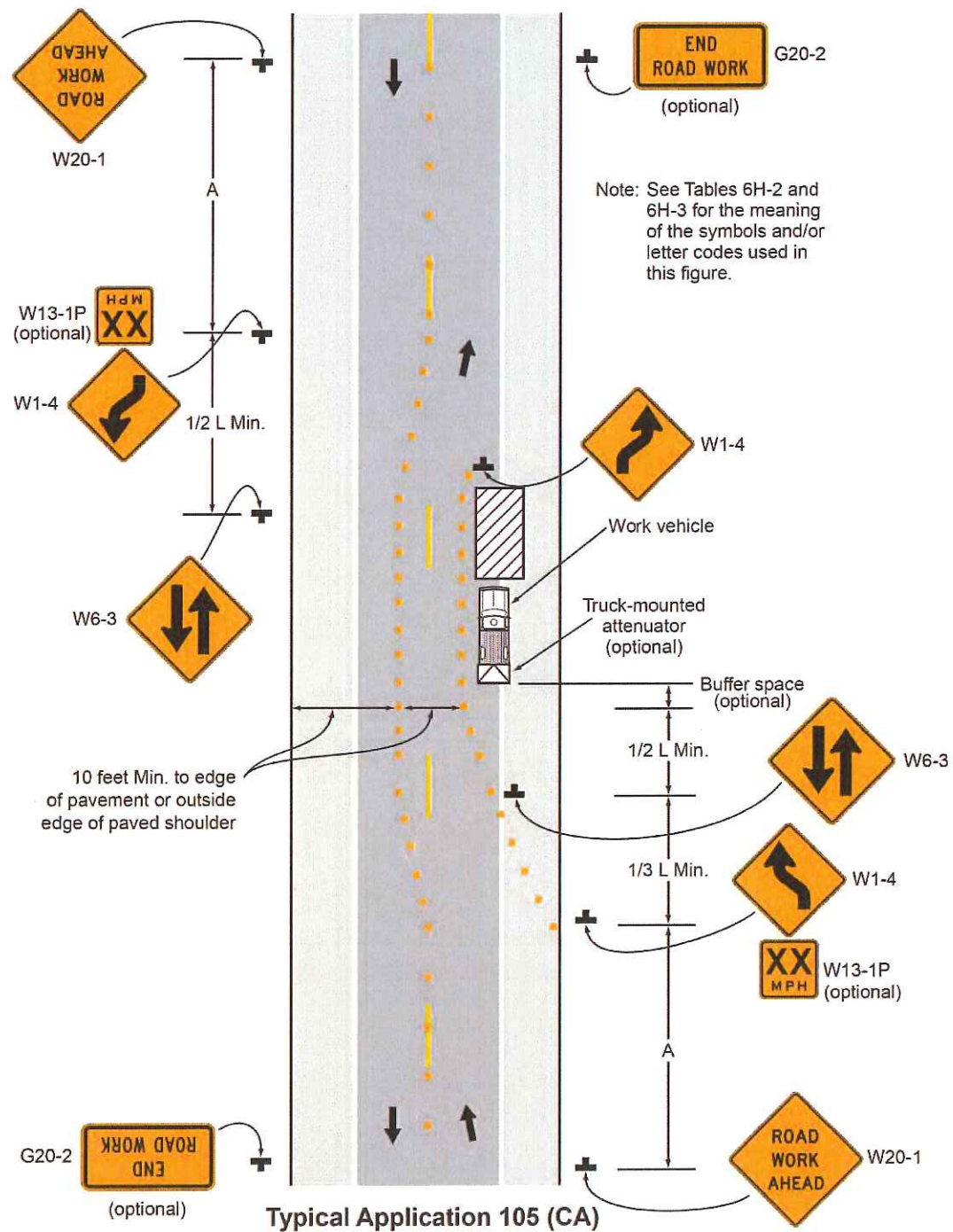
WATERLOO RD & N F ST

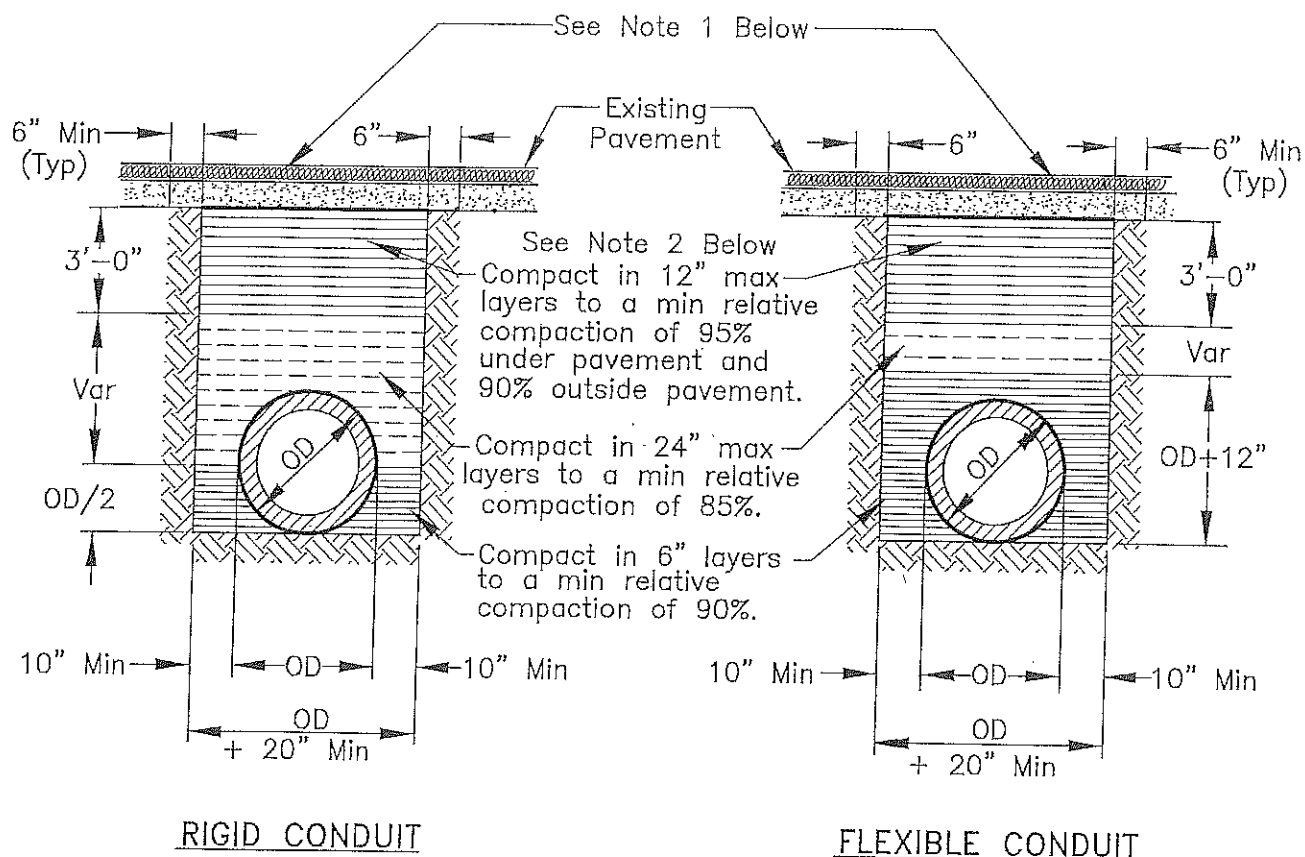
STOCKTON, CA





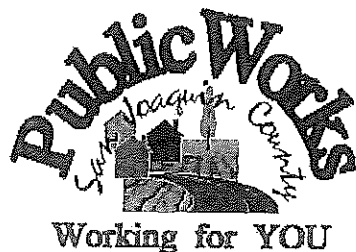
**Figure 6H-105 (CA). Lane Shift on Road With Low Traffic Volumes (TA-105 (CA))**





#### NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



### TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

Approved by:

*Thomas M. Hall*

No.	Revision	Description	Date

Std. Dwg. No.

**R-29**

Date: DEC 2014



## GENERAL PROVISIONS

### GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

#### PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
  1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
  2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.

a. The County of San Joaquin Public Works Department	d. The local fire district
b. The County of San Joaquin Sheriff's Office	e. The local school district
c. The local postal service	f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

#### STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and Transportation Officials (AASHTO) designations.
  1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M, 170M.
  2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
  3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

#### REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one-foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the fill.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
  - I. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
  2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
  1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
  2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

## SPECIAL PROVISIONS

### Winter Weather Utility Work

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1. SUPERVISION: The utility company (permittee) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. START OF WORK: No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. CLEAN PAVEMENT: Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. DAILY RESTORATION: Private driveways and road intersections shall be restored daily.
5. WEATHER-TIGHT CONDITIONS: All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.