



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-1803964**
Date Issued: 11/19/2018
Start Date: 11/20/2018
Exp. Date: 03/01/2019
Project No: PWP730052
Quad: NW

UE/CR/PM NO:30953630

ENCROACHMENT PERMIT

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

Encroachment Type:

Trench & Replace	(2) HPR's (in dirt shoulder)		
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Location:

S/S OF WOODBRIDGE RD. 3.2 MILES W/O I-5

In compliance with your request of **11/19/2018**, 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****See Attached "Special Conditions"*****This permit replaces previously approved permit PS-1703400 due to complete scope of work change*****

FORMS: SS/WW, R-29

Est. Permit Fee: \$554.00

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.

SPECIAL CONDITIONS FOR
PG&E – WOODBRIDGE RD. – PM# 30953630
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 noting the restrictions in place at least 48 hours in advance.
5. School Buses shall be passed through the work zone with minimal delays.
6. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
7. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
8. All destroyed or obliterated pavement markings 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.
9. 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)
10. 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, including any facilities that are abandoned in place. 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 Section 1463)
11. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

12. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
13. 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.
14. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
15. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
16. 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.
17. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
18. 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.
19. 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, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
20. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 11/16/2018

To: San Joaquin County
Department of Public Works

PG&E PM 30953630
(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 #	<u>730052-6</u>	REF #	
APN		CR #	
EXP. DATE	<u>3/1/19</u>		
VALID	<u>11/20/18</u>	TO	<u>3/1/19</u>
STREET	<u>WOODBIDGE RD.</u>		
AREA	<u>LODI</u>	QUAD	<u>NW</u>
TYPE	<u>TRENCH (DIET SHOULDER ONLY)</u>		
FORMS	<u>SS/WW, R-29,</u>		
NOTES	<u>SPECIAL CONDITIONS</u>		
<p>* THIS PERMIT REPLACES PREVIOUSLY APPROVED PERMIT PS-1703400 DUE TO COMPLETE SCOPE OF WORK CHANGE. *</p>			

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

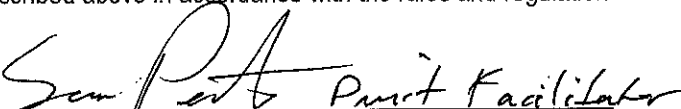
The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the SOUTH side of W Woodbridge Rd approximately 3.2 miles WEST of I-5, by performing the following work (description of work):

Approximately 180' of trench to replace 3/4" steel distribution main with 2" plastic pipe. Replace (2) (above ground) high pressure regulators

Permit needed for scope change, please refer to: **PS-1703400**

Work will commence on or after 11/16/2018 for approximately 90 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

11/16/2018
Date



Department of Public Works

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development

Michael Selling, Deputy Director/Engineering

Jim Stone, Deputy Director/Operations

Kristi Rhea, Manager of Strategic Initiatives

Acknowledgement of Monument Preservation

I, SCOT D. WILSON, a duly Licensed Land Surveyor or a Professional Engineer
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. L 6424,

hereby acknowledge and accept all responsibility for the monument preservation as required

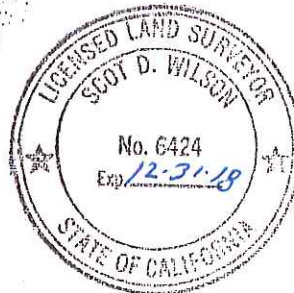
per Section 8771(a-f) of the Business and Professions Code within the bounds of the

construction activity permitted by San Joaquin County Permit No. PS-1803964.

I further acknowledge that I am hereby responsible for the Acknowledgement of Monument
Preservation prior to final acceptance of the construction activity.

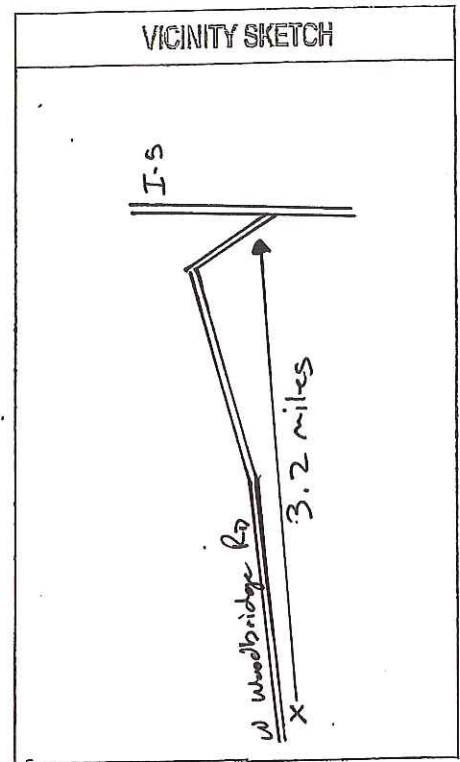
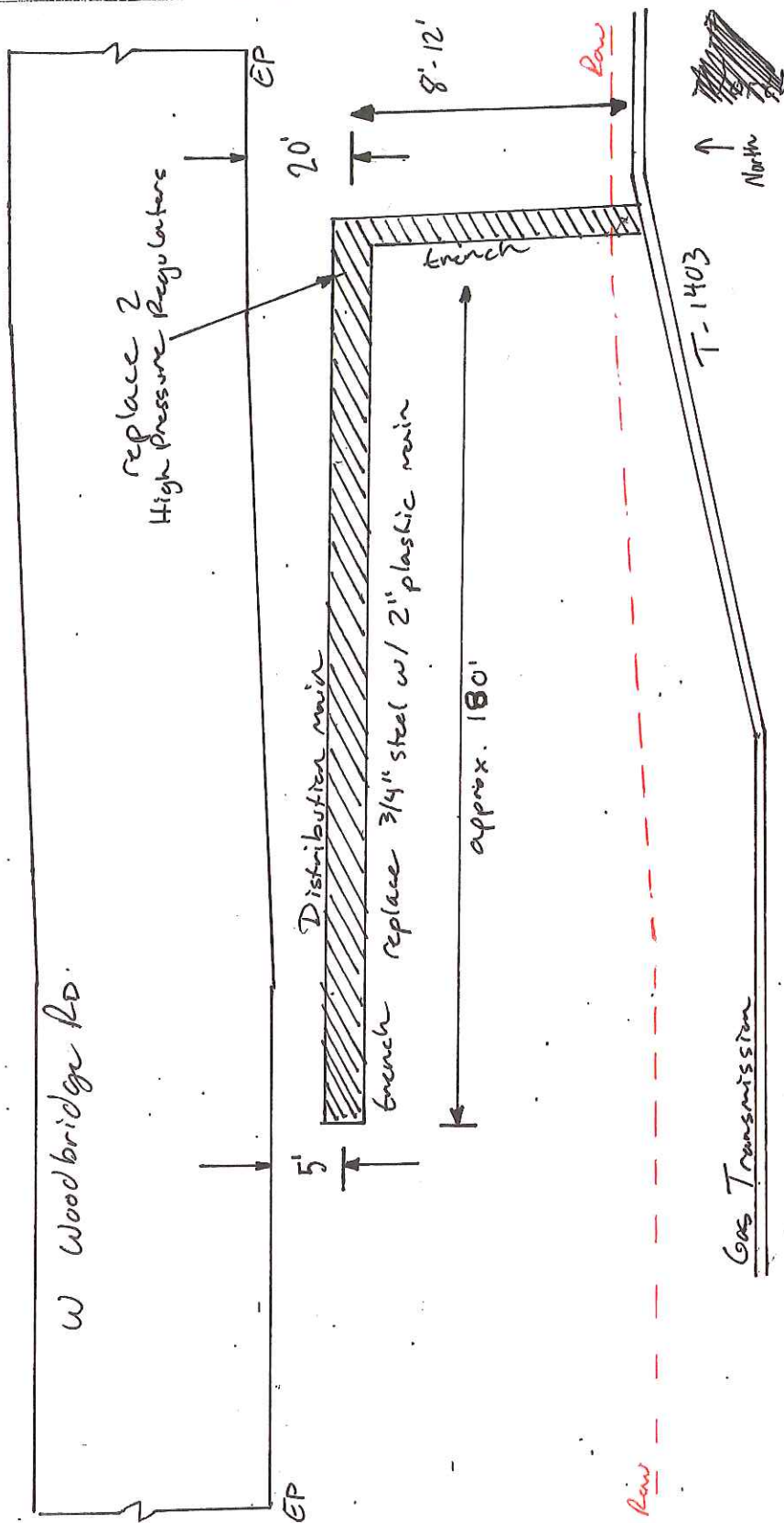
SCOT D. WILSON
Signature

Seal



11-9-2018
Date

PS-MONUMENT PRESERVATION



LEGEND

--- Row. LINE
 — EDGE OF PAVEMENT

EST:
 ADE:
 SUPV:
 REP:
 PLNR:
 SCALE: DATE:



PERMIT SKETCH

PG&E PM 30953630

Distribution main replacement
 & High Pressure Regulators

PACIFIC GAS AND ELECTRIC COMPANY

CO:
 SD:
 NOTIF:
 OTHER:
 SHT: 1 OF 1 SHEETS

PM #
 30953630

REV.



Pacific Gas & Electric Company
Gas Service Record
TD-9500P-14-F01

GAS SERVICE RECORD

☐ Special Facilities ☐ (CP 10%) ☐ Existing (10%)
Class Location: ☐ 1 ☐ 2 ☐ 3 ☐ 4 No. of Floors: _____

Agreement: ☐ Verbal ☐ Written Map No. 2867 Notif. No. 106231577 PM Order No. 30953630 Leak No. _____ S.O. No. 16963
Plat No. B4 Block _____ City Lodi Address 10749 W. Woodbridge Rd
Applicant/Tract Name _____ Lot No. _____ Est. LAN ID M4DA Date Issued 10/10/17

☐ PROPOSED ☒ EXISTING FACILITY: MAOP 800

OFF: ☒ Main 12" TP ☐ PE ☒ STL ☐ Aldyl-A
☐ Service Size & Pressure ☐ CI ☐ CU

☒ PSIG / ☐ W.C.

Inserted ☒ No
in ☐ Yes Casing size & material: _____
Casing: ☐ Double Casing size & material: _____

Main Trench Occupants:

☒ None
☐ Electric
☐ Telephone
☐ CATV
☐ Other _____

Posted By Mapping:

LAN ID _____

Signature _____

Date ____/____/____

On S Side W Woodbridge Rd In 3' Out _____

☒ PROPOSED ☐ EXISTING SERVICE LOCATION:

Service: On S Side W. Woodbridge Rd., 16,440' w/o Thornton Rd.

Size: 2", 3/4" ☒ PE2406 ☐ PE3408 ☐ Aldyl-A ☒ STL ☐ CU

Riser: Size 2" ☐ Inside ☒ Outside ☒ W/Bypass
Pre-Fab Non-Corroddible: ☒ Regular ☐ Short ☐ Long
☐ Steel Encased-Plastic Insert ☐ Steel Riser ☐ CU Riser

Curb Valve:

☐ Metal ☐ PL ☒ None

Insert: ☒ No ☐ Yes ☐ Double

Casing size & material: _____

Casing size & material: _____

SVC Trench Occupied With:

☒ None ☐ Electric ☐ Phone
☐ CATV ☐ Other _____

JOB TYPE

☐ NEW SERVICE
☐ STUB SERVICE *
☐ STUB COMPLETION **
☐ BRANCH SERVICE

REF. NO. _____

☐ CURB METER
☐ METER CHANGE
☐ MANIFOLD
☐ CONVERT TO MAIN
☐ UPRATE

☒ REPLACEMENT

☐ PARTIAL
☒ COMPLETE

☐ TRANSFER
☐ ALTER / INSPECTION
☐ CUT-OFF

☐ AT MAIN
☐ AT P/L
☐ AT BRANCH
☐ OTHER _____

No. of Outlets 1 Res. Meter(s) Qty./Size N/A Reg. Size/Type: EX. 2" 1803 Orifice: EX.

Comm. Meter(s) Qty./Size EX. AL 2300 Monitor Size/Type: EX. 2" 1803M Orifice: EX.

C/O Data 168 Ft. of 3/4 & 2 In. Yr. Install 1977 Type: ☒ STL ☐ PL ☐ CU Reason: ☐ Leakage ☒ Other

Transfer From N/A Main On _____ Side _____ In _____ Out _____

Instructions & Cautions: REPLACE EX. FARM TAP W/ NEW FARM TAP & RE-RUN EX. 2" STL SVC
AS NEW 2" PL SVC. REPLACE SVC RISER & REMOVE EX. ODORIZER.

EXCAVATED BY:	PG&E	APPLICANT	INSTALLED BY:	PG&E	APPLICANT
FRANCHISE / STUB	<input type="checkbox"/>	<input type="checkbox"/>	FRANCHISE / STUB	<input type="checkbox"/>	<input type="checkbox"/>
PRIVATE / COMPLETION	<input type="checkbox"/>	<input type="checkbox"/>	PRIVATE / COMPLETION	<input type="checkbox"/>	<input type="checkbox"/>

BORE: ☐ YES ☐ NO

Remarks _____

* DATE STUB INSTALLED ____/____/____ Foreman LAN ID _____ Signature _____

☐ Electronic Marker installed

MANUFACTURER _____ DATE MANUFACTURED ____/____/____

** DATE COMPLETED ____/____/____ Foreman LAN ID _____ Signature _____

MANUFACTURER _____ DATE MANUFACTURED ____/____/____

WORK DONE: (Show corrections to service and main data above)

_____ Ft. Main to P/L

_____ Ft. P/L to End of Stub

_____ Ft. End of Stub to Riser

_____ Total Ft.

Total Load 7700 SCFH

Delivery Pressure 10 PSIG

TBA X-04

Elevation 0 ft.

TEST DATA: (Per No. Doc. A-34) ☐ Soap Test

STUB _____ PSIG for _____ Minutes

Foreman LAN ID _____ Signature _____ Date ____/____/____

COMPLETION _____ PSIG for _____ Minutes

Foreman LAN ID _____ Signature _____ Date ____/____/____

For services operating with an MAOP above 60 PSIG, attach a copy of the Strength Test Pressure Report.

Approx. Depth of Main _____

Approx. Depth of Ex. Svc. _____

Depth of Inst. Svc. _____

RISER VALVE MFG: _____

WELDING INSPECTION
PER PG&E No. Doc. D-40

Signature _____

LAN ID _____

Date _____

EFV Brand _____

N/A

Connection Type _____

N/A

Flow Series _____

N/A

Material: ☐ Plastic ☐ Steel

Size: ☐ 1/2" ☐ 3/4" ☐ 1" ☐ 1-1/4" ☐ 2"

N/A Reason: Load Exceeds Max

CATHODIC PROTECTION: CPA No. T-196A

Main under protection ☒ YES ☐ NO

Install cathodic protection (Per No. Doc. 0-16)

☐ Existing: ☐ New: No. Installed _____

☐ RISER
☐ VALVE
☐ SVC.
☐ MAIN

GALVANIC CP SYSTEMS:

Reading _____ Date ____/____/____

Reading _____ Date ____/____/____

Reading _____ Date ____/____/____

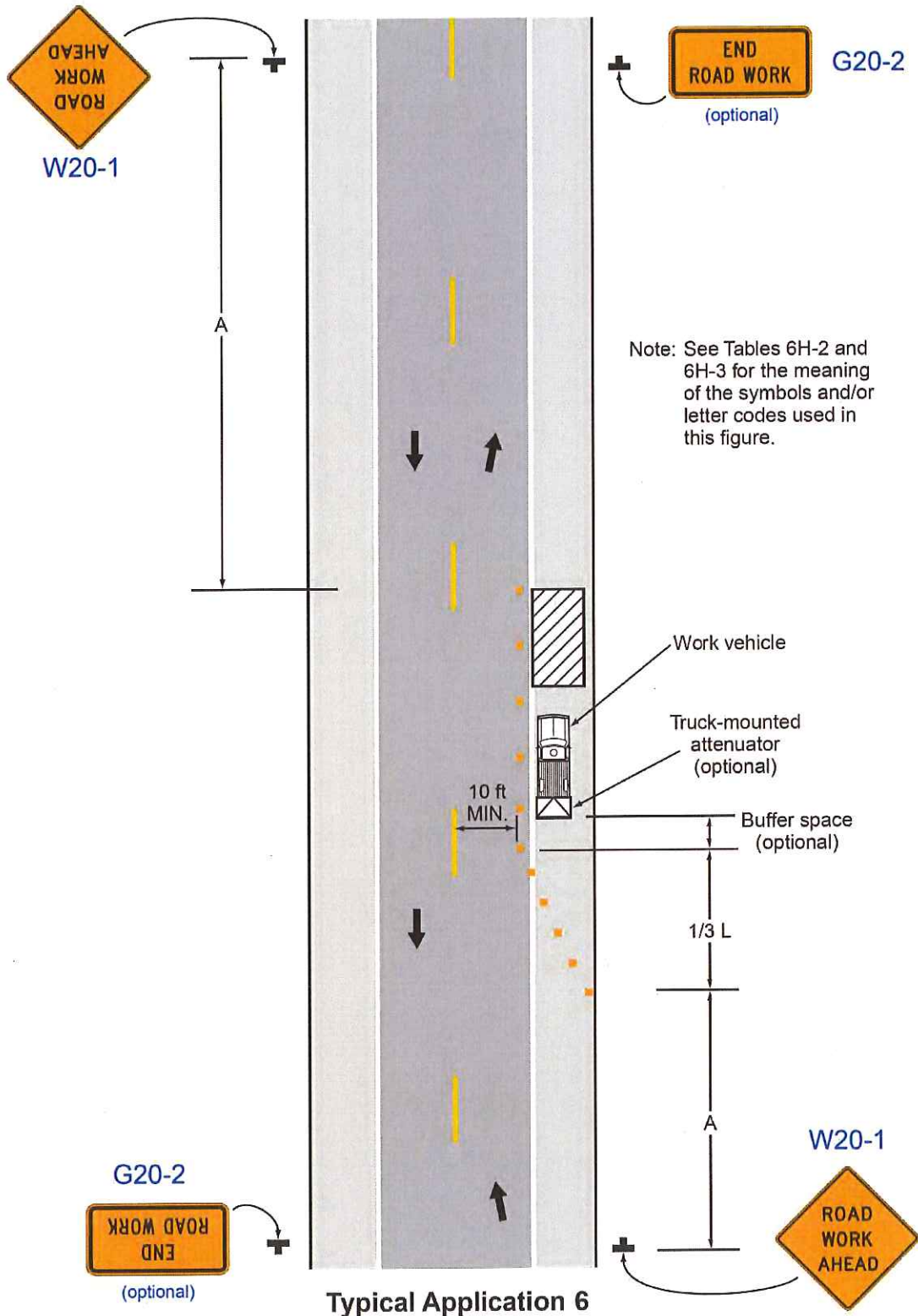
LOCATING WIRE CONNECTIONS: SVC Wire Size #10

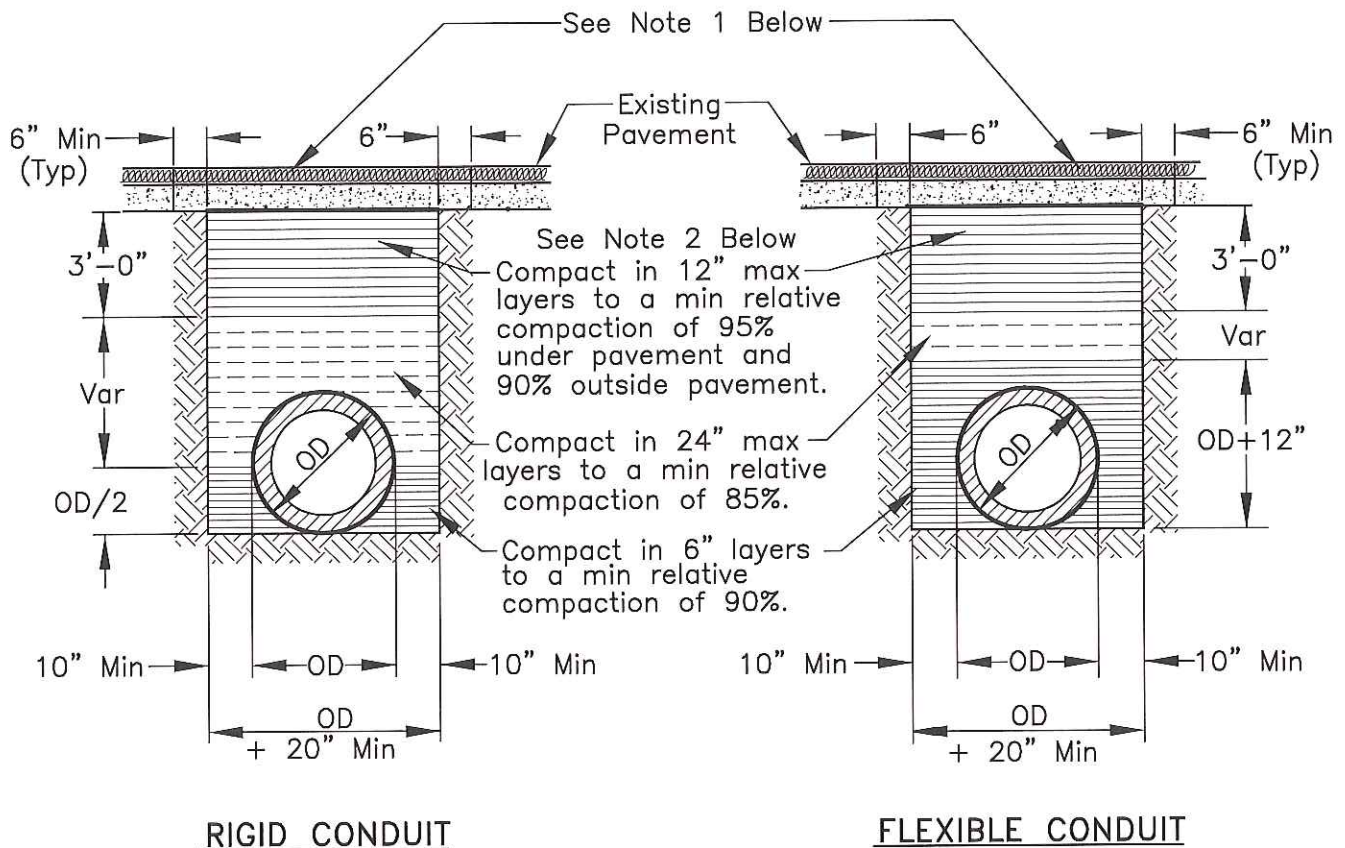
TERM. AT: ☒ MAIN ☐ BRANCH TERM. AT: ☒ RISER ☐ SVC

☒ Bonded
☐ Wrapped around Tee
☐ Neco-pressed wire
☐ N/A

☐ Bonded
☒ Strapped to Riser
☐ Terminated at _____
☐ N/A

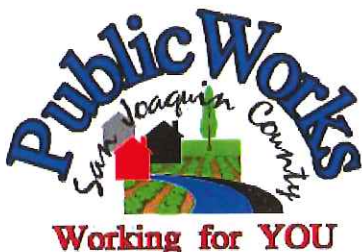
Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)





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

Date: DEC 2014

Approved by:

Thomas M. Gell

No.	Revision	Description	Date

Std. Dwg. No.

R-29

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
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - 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, lampoles, 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 lift.
- 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.
 - 1. 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

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.