

COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

P.0. BOX 1810-1810 E. HAZELTON AVENUE STOCKTON, CALIFORNIA 95201 (209) 468-3000 FAX # (209) 468-9324 Permit No: **PS-1601839**Date Issued: 06/24/2016
Start Date: 06/24/2016
Exp. Date: 07/10/2016
Project No: PWP730077

Quad: CC

UE/CR/PM NO:8217

Permit Section

ENCROACHMENT PERMIT

To: CALIFORNIA WATER SERVICE 1602 E LAFAYETTE ST STOCKTON, CA 95205

Encroachment Type:

WHITE

PINK

GOLDENROD YELLOW -Permittee -PWD Central File

-Field Inspection

-Permit Section

Trench						
Location: CHRISTIN	A AVE(RYDE TO K	KIRK)				
application a		terms, conditions and				of-way as shown on attached special provisions on any part of this
Director. Su to depth of u underground	urface of trench patch tilities through roads	es shall match in kind ide area in anticipatio	and be smooth	n and even with the nage facilities, r	that of abutting surfa oad profile and/or fr	ine unless otherwise approved by the ace. Special attention shall be given ontage development. All centerline of road right of way, or
forty-eight	hours prior to begin		in the County	right of way:	All work performed	ons) at (209)953-7421 at least under this permit shall conform to I Cal-OSHA.
pedestrian o	r automobile traffic.	All necessary traffic c	onvenience an	d warning device	es and personnel sha	hich might be a hazard to either all be provided, placed and ANS Manual of Traffic Control.
neat workma	anlike manner. Įmme		pletion of con			be removed and the jobsite left in a shall fill out and mail notice of
Special Cor						
Traffic Con	trol Per MUTCD					
FORMS:	SS/WW, R-29					
Est. Permit	Fee: \$0.00					
						BALAJI, Director
					Dep	artment of Public Works

ENCROACHMENT PERMIT GENERAL PROVISIONS

3-1.

 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.

- 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 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.
- 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)
- 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

SAN JOAUUN COUNT

PLEASE PRINT:	-1 2016 10 7 31 PM 3: 12
Date May 31, 2016	OFFICE USE ONLY
To: San Joaquin County Department of Public Works	JOB# 730077 REF# CR#
CALIFORNIA WATER SERVICE (Applicant Name)	EXP. DATE 7-10-16 VALID 6-24-16 TO 7-10-16 STREET (hristing AV *
1602 E LAFAYETTE ST (Mailing Address)	AREA Stocton QUAD (C * TYPE Trench FORMS 55 WW RZ9
STOCKTON CA 95205	NOTES
(City, State, Zip Code) (209) 4 lo 4 - 8 3 1 1	
(Area Code - Telephone Number)	
Sketch (Detailed plans may be submitted)	hed
The undersigned hereby applies for permission to excavate, contheside ofside of	nstruct and/or otherwise encroach on County Highway Right-of-Way on approximately feet/mile, by performing the following work (description of work):
Christina Aue - Ryde Aue to Kirk Replace Long-Side Services for Jut = 1' x 50" x 22 (open Cutting)	Clue 103000 Clounty of San Jago, in Project 00107080 Act 10 3450.2
Work will commence on or about July 5, 3	1016 for approximately 60 days.
I, the undersigned, certify that I am the owner of the respective poork described above in accordance with the rules and regulation	property, or am qualified to represent the owner and agree to do the one of San Joaquin County and subject to inspection and approval.
Starre allen - Operations (Signature of Applicant - Title	Clerk 5/31/16.



Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)

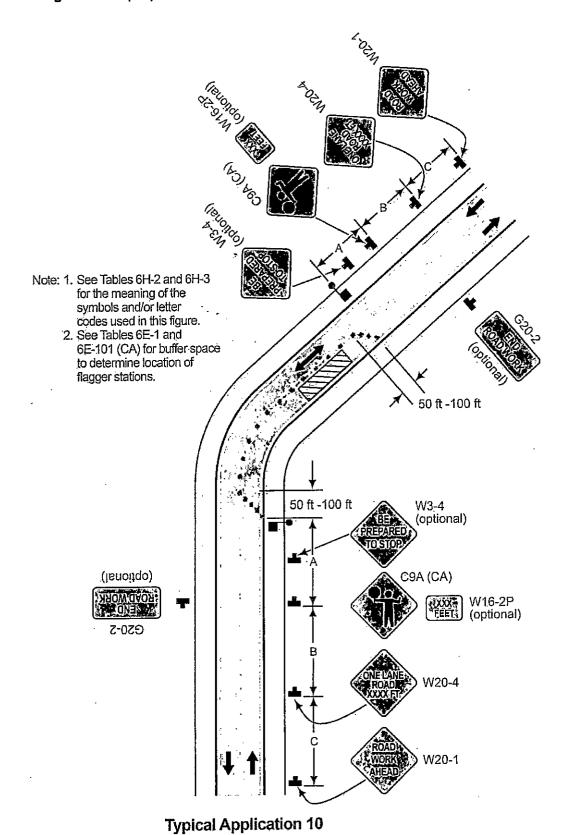


Table 6H-1(CA). Index to Typical Applications

Typical Application Description	Typical Application Number
Shoulder Closure on Urban (Low Speed) Locations to Accommodate Bicyclists	TA-101(CA)
Lane Closure on Freeway, Expressway, Rural and Urban (High Speed) Locations to Accommodate Bicyclists	TA-102(CA)
Detour for Bike Lane on Roads with Closure of One Travel Direction	TA-103(CA)
Right Lane and Bike Lane Closure on Far Side of Intersection	TA-104(CA)
Work Within the Traveled Way of a Two-Lane Highway (see Section 6G.10)	The State of the S
Lane Shift on Road with Low Traffic Volumes	TA-105(CA)

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		. Shadow vehiçle
000	Arrow board support or trailer (shown facing down)	F	Sign (shown facing left)
	Changeable message sign or support trailer Channelizing device	<u> </u>	Surveyor Temporary barrier
	Crash cushion		Temporary barrier with warning light
-→	Direction of temporary traffic detour Direction of traffic	*	Traffic or pedestrian signal
	Flagger		Truck-mounted attenuator.
	High-level warning device (Flag tree)	0	Type 3 barricade Warning light
	Longitudinal channelizing device Luminaire		Work space
11111	Pavement markings that should be removed for a long-term project	(o	Work vehicle

Table 6H-3. Recommended Advance Warning Sign Winimum Spacing

	Distance Between Signs**			
Road Type	A	В	С	
Urban (terr special) - 25 mph or less***	100 feet	100 feet	100 feet	
Urban - more than 25 mph to 40 mph***	250 feet	250 feet	250 feet	
Urban (high speed) - more than 40 mph***	350 feet	350 feet	350 feet	
Rural	500 feet	500 feet	500 feet	
Expressiva) / Fréeway	1,000 feet	1,500 feet	2,640 feet	

Spood category to he distormized by the highway agreesy.

Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet		
40 mph or less	$L = \frac{WS^2}{60}$		
45 mph or more	L= ŴS		

Where: L = taper length in feet

W = width of offset in feet

S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

^{***} Posted speed limit; off-peak 85th-percentile speed prior to work starting, or other anticipated operating speed in moh.

Table 6H-4(CA). Taper Length Criteria for Temporary Traffic Control Zones (for 12 feet Offset Width)

	Minimum Taper Length**				
Speed*	for Width of Offset 12 feet (W)				
S (mph)	Merging L (feet)	Shifting L/2 (feet)	Shoulder L/3 (feet)	Down Stream (feet)***	
. 20	80	40	27	50	
25	125	63	42	50	
30	180	90	60	50	
35	245	123	82	50	
40	320	160	107	50	
45	540	270	180	50	
50	600	300	200 .	-50	
55	. 660	330	220	50	
60	720	360	240	50	
65	780	390	260	50	
70	840	420	280	50	
75	900	450	300	50	

^{* -} Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.

Where:

L = taper length in feet

W = width of offset in feet

S = posted speed limit, off-peak 85th-percentile speed prior to work

starting, or the anticipated operating speed in mph

^{** -} For other offsets use the following merging taper length formula for L: For speeds of 40 mph or less, L=WS2/60 For speeds of 45 mph or more, L=WS

^{*** -} Maximum downstream taper length is 100 feet. See Section 6C.08.

<u> Table 6F-101(CA).</u>	Maximum	Spacing	of Channeli	zina Davicae
				/ 31 IG 3 11 JUNE V FI . ~~~

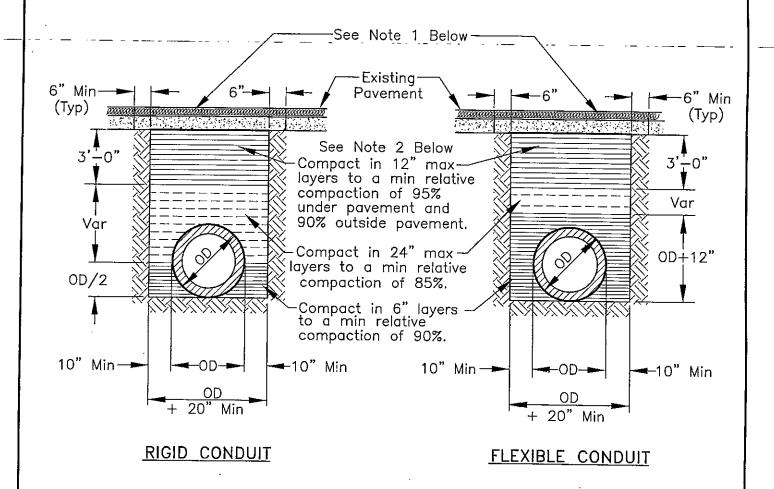
Speed	Maximum Channelizing Devices Spacing				
Speed (mph)	Taper* (feet)	Tangent (feet)	Conflict** (feet)		
20	20	40	10		
25	25	50	12		
30	30	60	15		
35	35	70	17		
40	40	80	20		
45	45	90	22		
50	50	100	25		
55	50	100	25		
60 .	50	100	25		
65	50	100	25		
70	50	100	25		
75	50	100	25		

^{*} Maximum channelizing device spacing for all speeds on one-lane/two-way tapers is 20 feet.

Maximum channelizing device spacing for all speeds on downstream tapers is 20 feet.

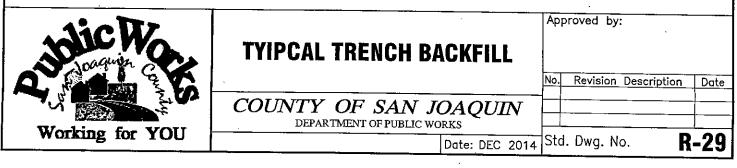
All other tapers are as shown.

^{**} Use on intermediate and short-term projects for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizing devices.



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.



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.
 - 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-iour (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department

d. The local fire district
c. The local school district

The County of San Joaquin Sheriff's Office
 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 of 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.
 - For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M
 170M.
 - 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 builed 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.
- B. 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, ioad 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.
 - 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.
 - 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.
- L 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 dut 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. <u>SUPERVISION:</u> 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. <u>CLEAN PAVEMENT:</u> 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.