

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-1803197
Date Issued: 09/06/2018
Start Date: 09/10/2018
Exp. Date: 10/15/2018
Project No: PWP7110005

Quad: NS

ENCROACHMENT PERMIT

To: QUALITY COUNTS 2455 BATES AVE., STE. C CONCORD, CA 94529

Encroachment Type:		
Traffic Control Devices		
Location:		
COUNTYWIDE ON VARIOUS ROADS		

In compliance with your request of <u>09/06/2018</u>, 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:	
	n - San Joaquin Council of Governments - Conjestion Management
FORMS: SS/WW	
Est. Permit Fee: \$0.00	KRIS BALAJI. Director

-Permittee
-PWD Central File
-Field Inspection
-Permit Section

GOLDENROD

YELLOW

PINK

By: Permit Section

Department of Public Works

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

S'AN 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, indexinity, 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 8/29/2018	-	OFFICE USE ONLY
To: San Joaquin County Department of Public Works	JOB# APN	
Quality Counts	EXP, DATE	10/15/18
(Applicant Name)	VALID STREET	9/10/18 TO 10/15/18 DRIVEWAYS:
2455 Bates Ave, Suite C	AREA	QUAD *
(Mailing Address)	TYPE FORMS	TRAFFIC DATA COLLECTION! *
Concord, CA 94529	NOTES	
(City, State, Zip Code) 323 481 4894		·
(Area Code - Telephone Number) nsmith@qualitycounts.net		· · · · · · · · · · · · · · · · · · ·
(Email Address)		
The undersigned hereby applies for permission to excavate, the side of, of, No excavation, construction, or lane closures	ap	proximatelyfeet/mile
Nork will commence on or after 9/10/2018		for approximatelydays,
, the undersigned, certify that I am the owner of the respectiv	re property, or a	m qualified to represent the owner and agree to do the
Nork will commence on or after 9/10/2018 The undersigned, certify that I am the owner of the respective work described above in accordance with the rules and regulation.	re property, or a	m qualified to represent the owner and agree to do the
, the undersigned, certify that I am the owner of the respectiv	re property, or a	m qualified to represent the owner and agree to do the aquin County and subject to inspection and approval.



Ouality Counts
2455 Bates Ave, Suite C
Concord, CA 94529
925.587.5026

SJCOG RCMP 2018 Traffic Data Collection

Intersection Counts

NORTH/SOUTH ST	EAST/WEST ST
I-5 SB Ramps	Turner Rd
I-5 NB Ramps	Turner Rd
I-5 NB Ramps	SR-12
I-5 SB Ramps	French Camp Rd
I-5 NB Ramps	French Camp Rd
I-5 SB Ramps	Matthews Rd
I-5 NB Ramps	Matthews Rd
99 Frontage (south of Eight Mile	Hwy 99 NB Ramps
Hwy 99 SB Ramps	Hammer Ln
Hwy 99 NB Ramps	Hammer Ln
Hwy 99 NB Ramps	SR-4/ Farmington Rd
Hwy 99 SB Ramps	French Camp Rd
Hwy 99 NB Ramps	French Camp Rd
Hwy 99 NB Ramps	99 Frontage (north of Lathrop Rd)
Hwy 99 Ramps	
SR-88	SR-12
SR-88	SR-12/ Victor Rd
McHenry Ave	River Rd
West Ln	Eight Mile Rd
Airport Wy	French Camp Rd
Lower Sacramento Rd	Hamey Ln
SR-33/ Ahern Rd	Vernalis Rd
Vernalis Rd	SR-132/ Vernalis Rd
Airport Wy	Roth Rd
French Camp Rd	SR-120/ Yosemite Ave
Jack Tone Rd	SR-120
Jack Tone Rd	French Camp Rd
Jack Tone Rd	Mariposa Rd
	The state of the s

Tube Counts

ROADWAY	FROM	10
Airport Way	Arch-Airport Rd_Sperry Rd	French Camp Rd
Airport Way	French Camp Rd	Roth Rd
Airport Way	Lathrop Rd	Yosemite Ave
Austin Rd	Mariposa Rd	Arch Rd
Austin Rd	Arch Rd	French Camp Rd
Bird Road	Linne Road	11th Street
Brennan Ave	Ullrey Ave	W of Miller Ave
Byron Rd	Alameda County	Lammers Rd
Campbell Ave	Mahon Ave	SR-120 (Jackson Ave)
Corral Hollow Rd	Schuite Rd	1-580
Eight Mile Rd	Trinity Pkwy	1-5
Eight Mile Rd	1-5	Thornton Rd
Eight Mile Rd	Thornton Rd	Lower Sacramento Rd
Eight Mile Rd	Lower Sacramento Rd	West Ln
Eight Mile Rd	West Ln	SR-99
Eleventh St	Tracy Blvd	Chrisman Rd
Eleventh St	Chrisman Rd	Lovely Rd
Eleventh St	Lovely Rd	Bird Rd
Eleventh St	Bird Rd	5-1
Escalon-Bellota Rd	Mariposa Rd	Lone Tree Rd
French Camp Rd	Sperry Rd	SR-99
French Camp	SR-99	Castle Rd
French Camp	Castle Rd	Austin Rd
French Camp	Austin Rd	Jack Tone Rd
French Camp	Jack Tone Rd	SR-120 (Yosemite Ave)
Hammer Ln	1-5	Thornton Rd
Harrold Ave	SR-120 (Jackson Ave)	Jones Ave
Howard Rd	Tracy Blvd	Roberts Rd

Jack Tone Rd	SR-4/ Farmington Rd
Jack Tone Rd	SR-26
SR-88	Liberty Rd
Trinity Pkwy	Eight Mile Rd
Austin Road	Mariposa Road
Austin Road	Arch Road
Austin Road	French Camp Road
SR-99	French Camp Road
SR-99	Mariposa Road
Mountain House Parkway	I-205 WB Ramps
Mountain House Parkway	1-205 EB Ramps
Mountain House Parkway	I-580 WB Ramps
Mountain House Parkway	1-580 EB Ramps

Jack Tone Rd	SR-55	East of SR-12 (Victor Rd)
Jack Tone Rd	East of SR-12 (Victor Rd)	SR-26
Jack Tone Rd	SR-26	Mariposa Rd
Jack Tone Rd	Mariposa Rd	French Camp Rd
Jack Tone Rd	French Camp Rd	SR-120 (Yosemite Ave)
Jack Tone Rd	SR-120 (Yosemite Ave)	River Rd
Jack Tone Rd	River Rd	SR-99
Jones Rd	Dahlin Rd	Harrold Ave
Liberty Rd	SR-99	SR-88
Lower Sacramento Rd	Harney Ln	Armstrong Rd
Lower Sacramento Rd	Armstrong Rd	Eight Mile Rd
Lower Sacramento Rd	Eight Mile Rd	Royal Oaks Dr
Mariposa Rd.	SR-99	E of Austin Rd
Mariposa Rd.	E of Austin Rd	Jack Tone Rd
Mariposa Rd.	Jack Tone Rd	Escalon-Bellota Rd
Howard Rd_Matthews Rd	Roberts Rd	1-5
McHenry Ave	SR-120 (Yosemite Ave)	SJ_Stanislaus Co Line
Miller Ave	Escalon-Bellota Rd	End of Miller Ave
Mountain House Pkwy	Byron Rd	1-205
Mountain House Pkwy.	I-205	1-580
Elliott Rd	Peltier Rd	SR-12_SR-88
Olive Ave	SR-99	West Ripon Rd
Peltier Rd	1-5	SR-99
Peltier Rd	SR-99	Elliott Rd
River Rd	Ripon Rd	McHenry Ave
River Rd	McHenry Ave	Santa Fe Rd
Santa Fe Rd	SR-120 (Jackson Ave)	SJ_Stanislaus Co Line
Thornton Rd	N of Kingdon Rd	Eight Mile Rd
Thornton Rd	Eight Mile Rd.	Pershing Ave
Thornton Rd	Pershing Ave	Hammer Ln
Tracy Blvd	Howard Rd	1-205
West Ripon Rd	Airport Way	Austin Rd
West Ripon Rd	Austin Rd	Stockton Ave
Turner Rd	1-5	Lower Sacramento Rd
West Ln	Harney Ln	Armstrong Rd
West Ln	Armstrong Rd	Eight Mile Rd
West Ln	Eight Mile Rd	Morada Ln

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Company Profile

Quality Counts (Quality Counts) is a nationwide full-service transportation data collection firm with twelve (12) branch/field offices, and numerous staffed locations across the United States. Founded in 2003 in Portland, OR to meet the local need for a dedicated traffic data collection firm, Quality Counts has leveraged its specialized commitment to innovative technologies, quality products, and exceptional customer service to become one of the most respected traffic data collection firms in the country.

As Quality Counts has grown, we dedicated ourselves to developing detailed protocols for project management, equipment maintenance, employee training, and data collection to ensure that our clients receive the same high-standard of customer care that we've built our local reputations on. We've also increased our capabilities, striving to maintain the high-level of industry-specific knowledge, and cutting-edge technology that makes us an industry leader.

As a Quality Counts client the City will benefit from:

- Dedicated, local Project Managers
- A thorough QA/QC protocol
- Deliverables in raw data, Excel, CSV, Synchro, PDF, and more formats
- Our high level of customer attentiveness, and dedication to quality
- The experience acquired over hundreds of thousands of traffic counts



Our processes have the backing of twelve years of deliberate effort on



Founded: 2003 Personnel: 180 Local Personnel: 13

Corporate Headquarters 7409 SW Tech Center Dr. Suite 150 Tigard, OR 97223 Phone: 971.233.0000 Fax: 503.620.4545

> Primary Field Office: 2455 Bates Ave, Ste C Concord, CA 94529

Project Principal:
Gerald Wegehaupt
503.830.8471
jrw@qualitycounts.net

Project Manager:
Breanna Lundberg
925.587.5026
blundberg@qualitycounts.net

www.qualitycounts.net

our part to improve the traffic data collection industry. We believe that we can always improve, and the past thirteen years have provided us with extensive experience and the opportunity to progress our model of customer-first transportation data collection. We've learned a lot, and honed our processes to maximize efficiency and accuracy.

Across the country Quality Counts holds continuing contracts with numerous Departments of Transportation, Councils of Governments, Regional Planning Councils, and counties and cities of varying sizes. Our data, in addition to being trusted for use at the planning and engineering level, is used for projects performed for the National Cooperative Highway Research Program (NCHRP). In fact, our data collection system is considered so accurate it has been used to establish "ground truth" in nationwide studies of other data collection methodologies and technologies. We bring this same level of dedication to each data collection project we undertake, and will do so for the City.

MANUAL TRAFFIC DATA COLLECTION METHODOLOGY

Quality Counts shall perform Standard Manual counts by using digital video footage to collect the required data.

To perform one (2) hour turning movement count, Quality Counts shall use digital video recording to count bicycles, pedestrians and vehicle volumes making various movements at the location. For each Standard Count location, Quality Counts must conduct the count during the hours of 4:30 p.m. to 6:30 p.m. ("PM Peak Hours").

CAMERA METHODOLOGY AND SPECIFICATIONS

Our custom housings are made out of a durable plastic material. Contained inside our housing is a consumer-goods digital video camera (reliable, but nothing special), and modified to attach to a larger 12v/12a or 12v/10a battery for extended viewing times. We affix this housing to existing telephone poles and light structures using a ladder and a simple tie-down strap. We do not drill holes, or alter the structures permanently in any way.



Figures: View of fully equipped camera, housing, and battery mounted to a light and power pole

QUALITY COUNTS PROPRIETARY CAMERA HOUSING





Dimensions: 7 x 7 x 10 inches

Weight: 1 lb

POLE MOUNTED SETUP

- Camera and battery secured inside proprietary plastic housing
 - Secured to existing pole with locking ratchet strap



RATCHET TIE-DOWNS



Dimensions: 1 inch x 10 ft

Weight: 0.5 lb

WORK ZONE SPECIFICATIONS

Having conducted thousands of turn counts while servicing our government contracts and private sector clientele, QC has developed a great deal of expertise in these studies. We have fine-tuned our system to minimize the risks to both our staff and the public at large, while maximizing the accuracy of our counts.

Each set up will take no longer than 15 minutes. QC will not impede traffic in any way, however we may need to be parked on the shoulder of the road (or nearby if applicable) during installations and take downs. All fieldwork will be conducted during non-peak traffic hours.

SAFETY

Employee safety is QC's top priority. The nature of our work requires us to operate in hazardous areas, like the side of the road. Because of this we have developed and implemented strict safety procedures that all field technicians are required to abide by when conducting work.

Each work vehicle shall have a flashing amber safety light. The flashing light is to be turned on prior to pulling off to the side of the road. Whenever flashing amber lights are on, the vehicles flashing caution lights should also be engaged.

The work vehicle shall be parked in a safe location completely off the road and in front of the work area. Making sure the vehicle is completely outside of the travel lanes. It is never acceptable to have part of the vehicle in any part of the travel lane.

It is required at all times for our field technicians to wear reflective safety vest.

Traffic control measures must be implemented to maintain a safe work zone whenever work is conducted on the roadway itself or when the vehicle is interacting with a travel lane or shoulder. Quality Counts has all necessary signage and traffic control equipment at its local office, and all field technician staff are trained on proper usage.



Traffic Control Plan

ADT Tube Counts:

If you've been driving for any length of time, you've no doubt driven over one of those black strips of tube stretched across the road. These small rubber hoses are used to measure the number of cars traveling a particular stretch of roadway over a given period — usually 24 hours. They're closed on one end, and the other end is plugged into a device called a counter. When the wheel of a car hits the tube, the pressure creates a pneumatic (air) pulse, which is measured by the counter. We call these "hits". The counter records each individual hit with a timestamp; this information is later used to create reports about the number, type and speed of the vehicles using a stretch of roadway. QC field staff members are tasked with the proper deployment of our tube equipment which may be beneficial to the engineers working on the project. Our tube counts will generally meet the following requirements:

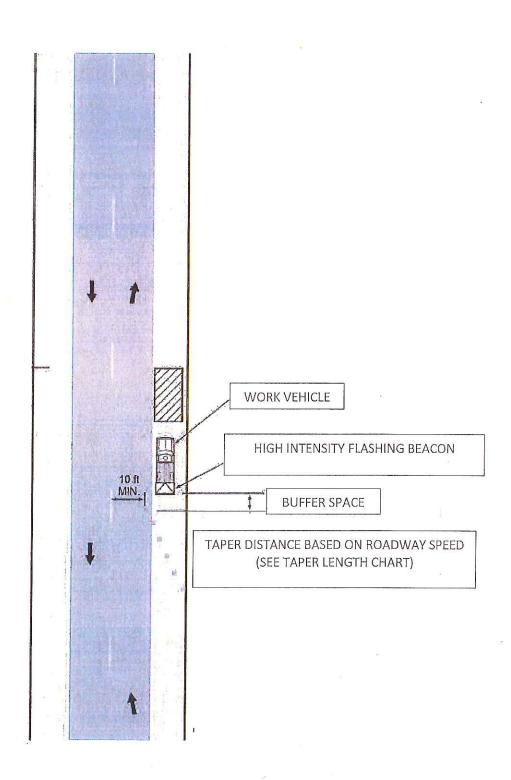
- 1. Conducted on a midnight to midnight, 24-hour basis
- 2. Bi-directional
- 3. Conducted on Tuesday, Wednesday, or Thursday except holidays
- 4. No counts will be collected during adverse weather conditions.
- 5. No traffic counting will be allowed on City or School holidays.
- 6. Counts may be submitted in hard copy form and in electronic format (Excel (.xls) and Adobe Acrobat (.pdf)).

Work Zone Specifications:

Having conducted tens of thousands of road tube counts while servicing our government contracts and private sector clientele, QC has developed a great deal of expertise in these studies. We have fine-tuned our system to minimize the risks to both our staff and the public at large, while maximizing the accuracy of our counts.

Each set up will take no longer than 15 minutes. QC will not impede traffic in any way, but we will need to be parked on the shoulder of the road (or nearby if applicable) during installations and take downs. Tape and road nails will be used to safely secure the road tubes to roads. For safety reasons, and to prevent the equipment from coming loose, QC will make sure our equipment is as secure as possible. The machine traffic counter will be placed well off the roadway attached to a sign or post with a chain and lock. The field technicians will be wearing reflective vests, hard hats and safety goggles. Reflective cones will also be used to surround the work zone out of traffic flow. We will use a flashing beacon light on top of our work vehicle. It will be parked as far off the roadway as possible during installation and takedown. All fieldwork will be conducted during non-peak traffic hours.

Minor Encroachment

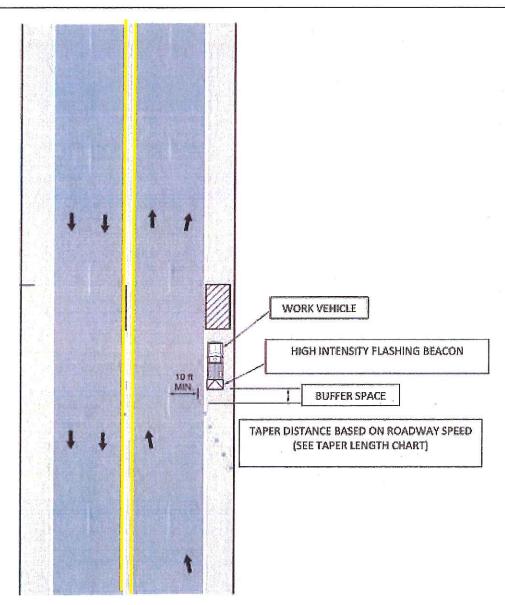


Quality Counts 2455 Bates Ave, Suite C Concord, CA 94529 925.587.5026

Minimum Taper Length Table:

		Minimum Taper Length**			
Speed*	for Width of Offset 12 ft (W)				
S (mph)	Merging L (ft).	Shifting L/2 (1)	Shoulder U3 (ft)	Down Stream (fi)	
20	80	40	27	100	
25	125	63	42	100	
30	180	90	60	100	
35	245	123	82	100	
40	320	160	107	100	

Minor Encroachment - 4 lane roadway



^{*}Note: Tube count setups on larger roadways are conducted during off peak hours when traffic is minimal. At no time is any equipment secured in the middle of the roadway. Our highly trained technicians cross the roadway once during setup, but do not remain in the roadway to install equipment.

Quality Counts 2455 Bates Ave, Suite C Concord, CA 94529 925.587.5026

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.
 - 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.
 - . The County of San Joaquin Public Works Department

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.
 - 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

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.
- 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.
- 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
- 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:

- 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.
 - 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. <u>SUPERVISION:</u> The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
- 2. <u>START OF WORK:</u> 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. <u>WEATHER-TIGHT CONDITIONS:</u> 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.